U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

PLANE COORDINATE INTERSECTION TABLES

(2½-MINUTE)

ALASKA

Zone 1

Reprinted 1981

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PLANE COORDINATE INTERSECTION TABLES

(2½-MINUTE)

ALASKA

Zone 1

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ARCTIC OCEAN
SIBERIA
BROOKS RANGE
SEWARD PENINSULA
Gulf of Anadir
SOVIET UNION
UNITED STATES
St Lawrence I
Norton Sound
St Michael
Nunivak
St Matthew I
BERING SEA
Pribilof Islands
GULF OF ALASKA
Kodiak
Shelikof Strait
Bristol Bay
Cook Inlet
Kenai
Prince William Sound
Cordova
Valdez
Yakutat
Glacier Bay
Juneau
Skagway
Dawson
Whitehorse
Mt McKinley Nat'l Park
Mt McKinley
Fairbanks
Nome
Bering Sea
Unalaska I
Dutch Harbor
Andreanof Islands
Rat Islands
Attu I
ALEUTIAN ISLANDS
PACIFIC OCEAN
ZONE 1
ZONE 2
ZONE 3
ZONE 4
ZONE 5
ZONE 6
ZONE 7
ZONE 8
ZONE 9
ZONE 10
ALASKA
Miles
Kilometers

Figure 1.

INTRODUCTION

For the purpose of establishing a state plane coordinate system, Alaska is divided into 10 zones as shown in figure 1. The coordinate system in each zone is based on a map projection which is determined by the orientation of the zone relative to the earth's meridian. It is impossible to reproduce exactly in a plane any portion of the earth's curved surface, but any curve on this surface can be mapped in its true length. A narrow strip on either side of this curve will be sufficiently undistorted to serve as a map on which distances can be measured to satisfy the demands of surveying accuracy without resorting to scale corrections.

In Zone 1 the curve in question is the geodetic line passing through an arbitrary central point of the area and roughly bisecting the strip. The resulting projection is an oblique Mercator projection of the spheroid, the basic formulas for which were originally developed by Brigadier M. Hotine, a British geodesist.

In Zone 10 the center line is a parallel of the spheroid near the center of the zone, and the resulting projection is the well-known Lambert conformal.

Zones 2–9 all have the same set of plane coordinates based on the transverse Mercator projection in which the strips extend to both sides of a central meridian.

The transverse Mercator is a "universal" projection in that the same set of coordinates can be used for any narrow strip following any arbitrary meridian, designated the central meridian.

In each of Zones 1–9 the central axis, instead of being mapped true to scale, has been reduced by 1 part in 10,000 in order to reduce the maximum error in any portion of the zone, when scale factors are not used, to approximately 1 in 10,000.

Using the 2½-minute values listed in this volume and the interpolation formulas suggested in the next section, it is possible to compute, with relative ease, the plane coordinates of any arbitrary point in the zone from the given geodetic coordinates, as well as to solve the inverse problem of obtaining geodetic coordinates from given plane coordinates. The tabulations of the necessary functions for this type of projection would be so extensive as to make the direct method of computation impractical. The method of interpolation is not only shorter but as accurate as direct computation would be with a ten-bank calculator, when the second-difference corrections listed on each page are applied.

Interpolation

This volume contains plane coordinates x, y for Zone 1, tabulated at 2½-minute intervals of latitude and longitude. Plane coordinates for any other points in the zone can be obtained from these basic coordinates by interpolation.

Since the plane coordinates x and y of a point are each functions of two variables ϕ and λ, it is necessary to interpolate for both arguments simultaneously. The following suggested interpolation formulas use the four 2½′ values of x and y surrounding the given point and will yield the required coordinates to within the second-difference corrections given on each page.

Suppose the point P with given ϕ and λ, whose plane coordinates x and y are to be computed, to be contained in the 2½′ "square" with corners P_1, P_2, P_3, P_4. The corresponding x values of these 4 points x_1, x_2, x_3, x_4 appear in the same relative position on the page listing the x's as they do in figure 2. This means that the point with the lowest ϕ and λ is in the upper left-hand corner and is designated Point 1, etc. Let the latitude and longitude of P_1 be ϕ_1 and λ_1. Then

$$\begin{aligned} h &= \phi - \phi_1, \text{ in seconds} \\ k &= \lambda - \lambda_1, \text{ in seconds.} \end{aligned} \qquad (1)$$

The distances, in seconds, of the point P from the edges of the "square" $P_1P_2P_3P_4$ will be as indicated in figure 2, and divide the square into four

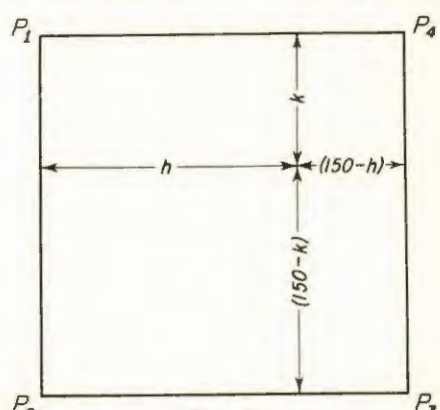

Figure 2.

rectangles. The "areas" of these rectangles, $hk, h(150-k)$, etc., are used as weights in determining the plane coordinates of the required point according to the following formula:

$$x=\frac{(150-h)(150-k)x_1+k(150-h)x_2+hkx_3+h(150-k)x_4}{22500}. \qquad (2)$$

The y coordinate is obtained in similar manner using y_1,y_2,y_3,y_4:

$$y=\frac{(150-h)(150-k)y_1+k(150-h)y_2+hky_3+h(150-k)y_4}{22500}. \qquad (3)$$

To the values obtained in (2) and (3) should be added (if +), or subtracted (if −), the second-difference corrections listed on the page from which the 2½′ values are taken.

The interpolation formulas (2) and (3) can be easily memorized by observing that each of the four coordinates is multiplied, or weighted, by the area of the diagonally opposite rectangle, the sum of the 4 products being divided by the sum of the weights which is always the area of the 150x150 square=22500.

***Example:* Converting geodetic position to plane coordinates**

Given G.P.: $\phi=54°39'02''.6543$
$\lambda=131°35'45''.4321$

The given point lies between $\phi=54°37'30''$ and $\phi=54°40'00''$, and between $\lambda=131°35'00''$ and $\lambda=131°37'30''$.

The 4 corresponding x and y values from the tables are therefore:

$x_1=3127\ 203.63$	$x_4=3126\ 743.24$
$x_2=3118\ 378.40$	$x_3=3117\ 927.06$
$y_1=1026\ 417.57$	$y_4=1041\ 626.89$
$y_2=1026\ 153.04$	$y_3=1041\ 362.67$

the relative positions of the 4 points in the table being, according to figure 2

$$\begin{matrix} P_1 & P_4 \\ P_2 & P_3 \end{matrix}$$

$$\begin{aligned} k=\lambda-\lambda_1&=131°35'45''.4321 \\ &\quad -131°35'00''=45''.4321 \\ h=\phi-\phi_1&=54°39'02''.6543 \\ &\quad -\ 54°37'30''=92''.6543 \\ 150-k&= \qquad 104''.5679 \\ 150-h&= \qquad 57''.3457 \\ &\qquad \text{Sum}\ \ 300''.0000 \end{aligned}$$

$$\begin{aligned} (150-h)(150-k)&= 5996.519 \\ k\,(150-h)&= 2605.336 \\ hk&= 4209.479 \\ h(150-k)&= 9688.666 \\ \text{Sum}\ \ &\ \ 22500.000 \end{aligned}$$

These are the coefficients, or weights, used in equations (2) and (3). Their sum should equal 22500, the denominator of the equations.

$$x=\frac{1}{22500}\left\{\begin{matrix}(5996.519)(3127\ 203.63) \\ +(2605.336)(3118\ 378.40) \\ +(4209.479)(3117\ 927.06) \\ +(9688.666)(3126\ 743.24)\end{matrix}\right\}$$

$=3124\ 247.95.$

If the 4 coordinates being weighted all begin with the same digit or group of digits (e.g., 31 in the above equation), these may be omitted from the interpolation and added to the final result. Thus equivalently,

$$x=\frac{1}{22500}\left\{\begin{matrix}(5996.519)(27203.63) \\ +(2605.336)(18378.40) \\ +(4209.479)(17927.06) \\ +(9688.666)(26743.24)\end{matrix}\right\}+3100\ 000.00$$

$=24\ 247.95+3100\ 000.00=3124\ 247.95.$

The second-difference corrections for x corresponding to $h=93''$ and $k=45''$ are 0 and +.03, respectively. Hence $x=3124\ 247.98$.

Similarly, from equation (3), using the contracted method mentioned above,

$$y=\frac{1}{22500}\left\{\begin{matrix}(5996.519)(26417.57) \\ +(2605.336)(26153.04) \\ +(4209.479)(41362.67) \\ +(9688.666)(41626.89)\end{matrix}\right\}+1\ 000\ 000.00$$

$=35732.23+1\ 000\ 000.00=1035\ 732.23.$

With the second-difference corrections of −.01 and −.55 for $h=93''$, $k=45''$ the final value of y is

$$y=1035\ 732.23-.56=1035\ 731.67.$$

Converting plane coordinates to geodetic position

The formulas required for this computation are obtained by inverting equations (2) and (3), i.e., solving them for k and h explicitly. The resulting equations are

$$\frac{k}{150}=\frac{(x-x_1)+\frac{h}{150}(x_1-x_4)}{(x_2-x_1)+\frac{h}{150}(x_1-x_2+x_3-x_4)} \qquad (4)$$

$$\frac{h}{150}=\frac{(y-y_1)+\frac{k}{150}(y_1-y_2)}{(y_4-y_1)+\frac{k}{150}(y_1-y_2+y_3-y_4)}. \tag{5}$$

It is convenient for computational purposes to make the substitution

$$K=\frac{k}{150},\ H=\frac{h}{150}. \tag{6}$$

This makes K and H positive proper fractions, and equations (4) and (5) become respectively

$$K=\frac{(x-x_1)+(x_1-x_4)H}{(x_2-x_1)+(x_1-x_2+x_3-x_4)H}=\frac{a_1+b_1H}{c_1+d_1H} \tag{7}$$

$$H=\frac{(y-y_1)+(y_1-y_2)K}{(y_4-y_1)+(y_1-y_2+y_3-y_4)K}=\frac{a_2+b_2K}{c_2+d_2K} \tag{8}$$

on setting

$$\begin{aligned} a_1&=x-x_1 & a_2&=y-y_1\\ b_1&=x_1-x_4 & b_2&=y_1-y_2\\ c_1&=x_2-x_1 & c_2&=y_4-y_1\\ d_1&=x_1-x_2+x_3-x_4 & d_2&=y_1-y_2+y_3-y_4. \end{aligned} \tag{9}$$

On eliminating H between (7) and (8) we obtain the quadratic equation

$$(c_1d_2+b_2d_1)K^2-(b_1b_2+a_1d_2-a_2d_1-c_1c_2)K -(a_1c_2+a_2b_1)=0 \tag{10}$$

the solution of which gives K. Since the coefficient of K^2 is small relative to the other two terms, the equation is most conveniently solved without extracting roots by the formula

$$K=\frac{C}{B}+\frac{A}{B}\left(\frac{C}{B}\right)^2 \tag{11}$$

where A, B, C are the coefficients of the terms in (10):

$$\begin{aligned} A&=c_1d_2+b_2d_1\\ B&=b_1b_2+a_1d_2-a_2d_1-c_1c_2\\ C&=-a_1c_2-a_2b_1. \end{aligned} \tag{12}$$

The three fractions $\frac{C}{B}, \frac{A}{B}, \left(\frac{C}{B}\right)^2$ used in (11) are each computed to 7 decimal places if latitude and longitude are required to $0''.0001$.

Procedure for obtaining latitude and longitude from given plane coordinates x and y

1. Find in the table the 4 adjacent values of x and y which surround the given x and y. These 4 values must be on facing pages in the table and in the same relative position on each page. Designate these 4 values of x and y in accordance with figure 2.

2. If there are second-difference corrections corresponding to h and/or k on the two pages in question, compute h and k to the nearest second from the approximation formulas

$$\begin{aligned} k&=150\,\frac{x-x_1}{x_2-x_1}\\ h&=150\,\frac{y-y_1}{y_4-y_1}. \end{aligned} \tag{13}$$

3. Enter the correction tables with these values of h and/or k, *reverse* the sign of the correction and apply to x and y. These adjusted values of x and y are the ones used in the subsequent computations.

4. Compute the quantities in (9) and with these A, B, and C in (12).

5. Compute $\frac{C}{B}, \left(\frac{C}{B}\right)^2$, and $\frac{A}{B}$ to 7 decimals and solve for K in (11).

6. Substitute K in (8) to obtain H.

7. From (6) and (1) obtain the longitude λ and latitude ϕ.

As an alternative to the above method, equations (7) and (8) can be set up, and solved by successive approximations to which process these equations are particularly well adapted. Start with any value of H, say $H=0$, substitute it in (7) and solve for K, calling this value K_1. Substitute K_1 for K in (8), solve for H and call it H_1. With H_1 in (7) solve for K_2, etc. Two or three repetitions of this process will give correct values for H and K. The process terminates when a result equals the previous approximation. An important advantage of such a method is that computational errors do not invalidate subsequent iterations.

Example: *Converting plane coordinates to geodetic position*

Given: Plane coordinates $x=3124\ 247.98$, $y=1035\ 731.67$ in Zone 1.

A search in the table shows that the given x and y are both contained in the square bounded by $\phi=54°37'30''$ and $54°40'00''$, $\lambda=131°35'00''$ and $131°37'30''$. The upper left-hand value in the square is again designated, in accordance with our convention, point 1, etc. Hence

$x_1=3127\ 203.63$ $\quad$ $x_4=3126\ 743.24$
$x_2=3118\ 378.40$ $\quad$ $x_3=3117\ 927.06$

$y_1=1026\ 417.57$ $\quad$ $y_4=1041\ 626.89$
$y_2=1026\ 153.04$ $\quad$ $y_3=1041\ 362.67$

and therefore

$$\begin{aligned} x_1-x_4&=b_1=460.39\\ x_2-x_1&=c_1=-8825.23\\ x_1-x_2+x_3-x_4&=d_1=9.05\\ y_1-y_2&=b_2=264.53\\ y_4-y_1&=c_2=15\ 209.32\\ y_1-y_2+y_3-y_4&=d_2=0.31 \end{aligned}$$

$$h=150\ \frac{y-y_1}{y_4-y_1}=\frac{150\times 9314.10}{15209.32}=92'' \text{ approx.}$$

With $h=92''$ use equation (4) to solve for k

$$\frac{k}{150}=\frac{-2955.65+\frac{92}{150}(460.39)}{-8825.23+\frac{92}{150}(9.05)}=\frac{-2673}{-8820}$$

$k=45''$ approx.

Corresponding to $h=92''$, $k=45''$ the second-difference corrections to x, with opposite sign, are 0 and $-.03$ respectively. The adjusted value for x is therefore $3124\ 247.98-.03=3124\ 247.95$, and

$$x-x_1=a_1=-2955.68.$$

Similarly the corrections to y are $+.01$ and $+.55$.

Hence $y=1035\ 731.67+.56=1035\ 732.23$ and $y-y_1=a_2=9314.66$.

This completes the computations of the quantities $a_1,b_1,c_1,d_1,a_2,b_2,c_2,d_2$ which are needed to compute exact values of k and h by either method.

First method

$$\left.\begin{aligned} A&=c_1d_2+b_2d_1 &&=-342\\ B&=b_1b_2+a_1d_2-a_2d_1-c_1c_2 &&=+134\ 262\ 320\\ C&=-a_1c_2-a_2b_1 &&=+40\ 665\ 507 \end{aligned}\right\}\text{drop all decimals from result}$$

$$\left.\begin{aligned} \frac{C}{B}&=.3028810\\ \left(\frac{C}{B}\right)^2&=.0917369\\ \frac{A}{B}&=-.0000025\\ \left(\frac{C}{B}\right)^2\left(\frac{A}{B}\right)&=-.0000002 \end{aligned}\right\}\text{Compute to 7 decimal places}$$

$$K=\frac{C}{B}+\left(\frac{A}{B}\right)\left(\frac{C}{B}\right)^2$$

$$=.3028810-.0000002=.3028808$$

$$H=\frac{a_2+b_2K}{c_2+d_2K}=\frac{9314.66+(264.53)(.3028808)}{15209.32+(.31)(.3028808)}$$

$$=\frac{9394.78}{15209.41}$$

$$=.6176952$$

$$k=150K=45''.4321$$

$$\lambda=\lambda_1+k=131°35'00''+45''.4321$$

$$=131°35'45''.4321$$

$$h=150H=92''.6543$$

$$\phi=\phi_1+h=54°37'30''+92''.6543=54°39'02''.6543$$

Second method

Set up equations (7) and (8)

$$K=\frac{a_1+b_1H}{c_1+d_1H}=\frac{-2955.68+460.39H}{-8825.23+9.05H}$$

$$H=\frac{a_2+b_2K}{c_2+d_2K}=\frac{9314.66+264.53K}{15209.32+.31K}.$$

From the previous approximation for $h=92''$ it follows that $H=\frac{92}{150}=.61333$ to 5 decimals.

Substitute in the first equation

$$K=\frac{-2955.68+460.39\ (.61333)}{-8825.23+\ \ 9.05\ (.61333)}=\frac{-2673.31}{-8819.68}$$

$$=.303107.$$

With this value of K in the second equation

$$H=\frac{9314.66+264.53\ \ (.30311)}{15209.32+\ \ \ .31\ \ (.30311)}=\frac{9394.84}{15209.41}$$

$$=.617699.$$

Repeating,

$$K=\frac{-2955.68+460.39\ \ (.61770)}{-8825.23+\ \ 9.05\ \ (.61770)}=\frac{-2671.30}{-8819.64}$$

$$=.302881$$

$$H=\frac{9314.66+264.53\ \ (.30288)}{15209.32+\ \ \ .31\ \ (.30288)}=\frac{9394.78}{15209.41}$$

$$=.617695$$

$$K=\frac{-2955.68+460.39\ \ (.61770)}{-8825.23+\ \ 9.05\ \ (.61770)}$$

$$=.302881 \text{ as before.}$$

Hence $h=150\ \ (.617695)=92.6543$

$k=150\ \ (.302881)=45.4321.$

Scale Factors

Scale factors indicate the amount of length distortion of short lines in various portions of the map (i.e., the "plane").

(Geodetic length) × (Scale factor) = Grid length

The scale factors are tabulated at 2½-minute intervals of latitude and longitude on odd-numbered pages 151 to 297.

For long lines a mean value of the scale factor over the whole line is needed. A convenient formula for the mean value k_m of the scale factor is

$$k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$$

where k_1 and k_2 are the scale factors at the two ends of the line, and k_3 is the scale factor at the midpoint.

(Note: The scale factor k is not to be confused with the symbol k used in equations 1.)

Azimuth Corrections

The geodetic azimuth of a line issuing from point P_1 is obtained by adding (algebraically) to the grid azimuth, the azimuth correction γ (map convergence) corresponding to P_1 and tabulated on even-numbered pages 150 to 296.

For long lines an additional correction, the arc-to-chord or $T-t$ correction, must be computed from the formula

$$\frac{1}{1.277\times 10^{10}}\,[-.6(x_2-x_1)+.8(y_2-y_1)]\,[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500].$$

Use x_1, x_2, y_1, y_2 to the nearest foot. The answer is in seconds, and is added algebraically to the result of the first paragraph.

Appendix

The Plane Coordinates in Zone 1 were computed on an Oblique Mercator projection of the spheroid on the basis of formulas developed by Brigadier M. Hotine (reference 1).

The defining elements of the projection are:

i) The Clarke Spheroid of 1866.

ii) The geodesic passing through the point $\phi_c = 57°00'$, $\lambda_c = 133°40'$W, designated the center of the projection, at an azimuth $\alpha_c = \arctan(-3/4)$.

iii) An intermediate mapping surface $r = A \operatorname{sech}(B\mu + C)$, called an aposphere. The parameters A, B, C are fixed by equating r, $dr/d\mu$, $d^2r/d\mu^2$ for the aposphere and for the spheroid $r = N\cos\phi$ along the parallel $\phi = 57°00'$.

iv) A scale reduction at the center of 1 part in 10,000.

v) A rotation of the skew plane coordinate system u, v to minimize the map convergence of meridians ($\gamma_c = 0$) and a change of origin, as defined by the equations

$$\begin{aligned} x &= -0.6u + 0.8v + 5\ 000\ 000 \\ y &= 0.8u + 0.6v - 5\ 000\ 000. \end{aligned} \qquad (14)$$

All computations were made in meters. The resulting x and y coordinates were then converted, as a final step, into feet by means of the relation 1 m = 39.37 in.

The procedure outlined below and the formulas given are adapted from references 1 and 2, which should be consulted for the mathematical theory of the projection. Briefly stated, this procedure consists in:

First, mapping the spheroid on an aposphere, the general surface of constant Gaussian curvature, by equating longitude λ and isometric latitude μ for corresponding points on the two surfaces in order to establish conformality. The parameters of the aposphere $r = A \operatorname{sech}(B\mu + C)$ are selected so as to make it fit the spheroid as closely as possible at the center of the map.

Next, the aposphere is mapped on a sphere with radius A/B, $r_s = (A/B)\operatorname{sech}\mu_s$, by means of the correspondence $\mu_s = B\mu + C$, $\lambda_s = B\lambda$. The character of the projection is preserved, the two surfaces being applicable.

Finally this sphere is mapped conformally on a plane as in the ordinary Oblique Mercator projection of the sphere. The axis of the strip which is to be mapped, here the geodesic through the point $\phi = 57°00'$, $\lambda = 133°40'$ with an azimuth of arctan $(-3/4)$, is mapped in this triple projection into, successively, a geodesic on the aposphere, a great circle on the sphere, and the u-axis of the

mapping plane. The linear transformation (14) then produces the plane coordinates x,y.

Mapping Equations

The equations of transformation from geodetic coordinates to skew coordinates u,v, and the corresponding inverses are

$$\begin{cases} \tan\,(Bu/Ak_c) \\ \qquad = \dfrac{\cos\alpha_0 \sinh\,(B\mu+C) - \sin\alpha_0 \sin\, B(\lambda-\lambda_0)}{\cos\, B(\lambda-\lambda_0)} \\ \tanh\,(Bv/Ak_c) \\ \qquad = \dfrac{-\cos\alpha_0 \sin B(\lambda-\lambda_0) - \sin\alpha_0 \sinh\,(B\mu+C)}{\cosh\,(B\mu+C)} \end{cases}$$

and

$$\begin{cases} \tanh\,(B\mu+C) \\ \qquad = \dfrac{\cos\alpha_0 \sin\,(Bu/Ak_c) - \sin\alpha_0 \sinh\,(Bv/Ak_c)}{\cosh\,(Bv/Ak_c)} \\ \tan\, B(\lambda-\lambda_0) \\ \qquad = \dfrac{-\cos\alpha_0 \sinh\,(Bv/Ak_c) - \sin\alpha_0 \sin\,(Bu/Ak_c)}{\cos\,(Bu/Ak_c)} \end{cases}$$

Scale Factor

$$k = \frac{k_c\, A \cos\,(Bu/Ak_c)}{r \cos\, B(\lambda-\lambda_0)}$$

Map Convergence γ, - - the correction added to the grid (plane) azimuth of short lines to obtain the geodetic azimuth

$$\tan\gamma = \frac{4\,\tan\alpha + 3}{4 - 3\,\tan\alpha}$$

where

$$\tan\alpha = \frac{\tan\alpha_0 - \sin\, B(\lambda-\lambda_0)\, \sinh\,(B\mu+C)}{\cos\, B(\lambda-\lambda_0) \cosh\,(B\mu+C)}.$$

Notation and Constants Used in the Projection

ϕ,λ=geodetic latitude and longitude

a,b,e,e_1=parameters of the Clarke 1866 spheroid

$\mu = \ln \tan\left(\frac{\pi}{4}+\frac{\phi}{2}\right) - \frac{e}{2} \ln \frac{1+e \sin\phi}{1-e \sin\phi}$=isometric parameter, with λ, on the spheroid. (When λ,μ are used as rectangular coordinates in the plane they produce the Mercator projection.)

c (subscript) refers to Center ($\phi_c=57°00'$, $\lambda_c=133°40'$)

o (subscript) refers to origin of skew coordinate system ($u=0$, $v=0$)

R,N=principal radii of curvature on the spheroid

r=distance from axis of rotation (radius of parallel)

$B=(1+e_1^2 \cos^4 \phi_c)^{\frac{1}{2}}=1.00029\ 97727$

$A=B(R_cN_c)^{\frac{1}{2}}=6388\ 906.0151\ m$

$C=\cosh^{-1}\left(\frac{A}{r_c}\right)-B\mu_c=0.00447\ 599131$

$Ak_c/B=6386\ 352.670\ m$

$\lambda_0=101°30'50''.51319$, from $\sin\, B(\lambda_c-\lambda_0)= -\tan\,\alpha_0 \sinh\,(B\mu_c+C)$

$\mu_0=-\frac{C}{B}$

α=angle between meridian and the axis of the projection $v=0$

α_0=angle, at the origin, between the meridian λ_0 and the axis

$$\sin\,\alpha_0=\frac{r_c}{r_0}\sin\,\alpha_c=\frac{-0.6\,(N\cos\phi)\ \phi=57°}{A}$$

$$=-0.32701\ 55172$$

$\cos\,\alpha_0=0.94501\ 89689$

$\tan\,\alpha_0=-0.34604\ 12203$

α_c=arctan (-¾), by definition

$\gamma=\alpha+\alpha_c$, map convergence of meridians relative to x,y grid

$\gamma_c=0$, by definition

k=scale factor

k_c=9999/10000

u=skew coordinate measured along axis of projection

v=skew coordinate measured along perpendicular to axis

x,y=rectified grid coordinates

References

1. Hotine, M.—The orthomorphic projection of the spheroid, Empire Survey Review, vol. 8,9, no. 62–66.
2. Projection Tables for Malaya, Directorate Colonial Surveys, Teddington, England.

PLANE COORDINATE INTERSECTION TABLES

ALASKA, ZONE 1

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	54 30 00	54 32 30	54 35 00	54 37 30	54 40 00
129 30 00	3570 922.72	3570 012.00	3569 101.20	3568 190.31	3567 279.31
129 32 30	3562 082.17	3561 180.43	3560 278.60	3559 376.68	3558 474.66
129 35 00	3553 241.34	3552 348.56	3551 455.71	3550 562.76	3549 669.73
129 37 30	3544 400.22	3543 516.42	3542 632.54	3541 748.57	3540 864.52
129 40 00	3535 558.83	3534 684.00	3533 809.09	3532 934.11	3532 059.03
129 42 30	3526 717.16	3525 851.30	3524 985.37	3524 119.37	3523 253.28
129 45 00	3517 875.21	3517 018.32	3516 161.37	3515 304.35	3514 447.24
129 47 30	3509 032.99	3508 185.08	3507 337.10	3506 489.06	3505 640.95
129 50 00	3500 190.48	3499 351.56	3498 512.57	3497 673.51	3496 834.37
129 52 30	3491 347.72	3490 517.77	3489 687.75	3488 857.69	3488 027.54
129 55 00	3482 504.68	3481 683.71	3480 862.69	3480 041.60	3479 220.45
129 57 30	3473 661.37	3472 849.39	3472 037.34	3471 225.25	3470 413.09
130 00 00	3464 817.80	3464 014.79	3463 211.74	3462 408.63	3461 605.47
130 02 30	3455 973.97	3455 179.95	3454 385.88	3453 591.77	3452 797.60
130 05 00	3447 129.88	3446 344.84	3445 559.76	3444 774.64	3443 989.47
130 07 30	3438 285.52	3437 509.47	3436 733.39	3435 957.25	3435 181.08
130 10 00	3429 440.91	3428 673.85	3427 906.76	3427 139.63	3426 372.45
130 12 30	3420 596.04	3419 837.97	3419 079.87	3418 321.74	3417 563.56
130 15 00	3411 750.92	3411 001.84	3410 252.74	3409 503.60	3408 754.42
130 17 30	3402 905.55	3402 165.47	3401 425.36	3400 685.22	3399 945.04
130 20 00	3394 059.93	3393 328.84	3392 597.73	3391 866.59	3391 135.42
130 22 30	3385 214.07	3384 491.97	3383 769.85	3383 047.72	3382 325.55
130 25 00	3376 367.95	3375 654.85	3374 941.74	3374 228.61	3373 515.45
130 27 30	3367 521.59	3366 817.49	3366 113.38	3365 409.25	3364 705.10
130 30 00	3358 674.99	3357 979.89	3357 284.78	3356 589.66	3355 894.52
130 32 30	3349 828.15	3349 142.05	3348 455.95	3347 769.84	3347 083.71
130 35 00	3340 981.07	3340 303.98	3339 626.88	3338 949.78	3338 272.67
130 37 30	3332 133.77	3331 465.67	3330 797.58	3330 129.49	3329 461.39
130 40 00	3323 286.22	3322 627.14	3321 968.05	3321 308.97	3320 649.89
130 42 30	3314 438.45	3313 788.36	3313 138.29	3312 488.23	3311 838.16
130 45 00	3305 590.44	3304 949.36	3304 308.31	3303 667.25	3303 026.21
130 47 30	3296 742.21	3296 110.14	3295 478.10	3294 846.06	3294 214.03
130 50 00	3287 893.74	3287 270.70	3286 647.66	3286 024.64	3285 401.63
130 52 30	3279 045.06	3278 431.02	3277 817.01	3277 203.01	3276 589.02
130 55 00	3270 196.16	3269 591.14	3268 986.14	3268 381.16	3267 776.20
130 57 30	3261 347.03	3260 751.02	3260 155.04	3259 559.09	3258 963.15
131 00 00	3252 497.69	3251 910.70	3251 323.74	3250 736.81	3250 149.90
131 02 30	3243 648.14	3243 070.16	3242 492.23	3241 914.32	3241 336.44
131 05 00	3234 798.36	3234 229.41	3233 660.49	3233 091.62	3232 522.76
131 07 30	3225 948.38	3225 388.46	3224 828.57	3224 268.71	3223 708.89
131 10 00	3217 098.19	3216 547.28	3215 996.42	3215 445.60	3214 894.81
131 12 30	3208 247.79	3207 705.90	3207 164.07	3206 622.27	3206 080.52
131 15 00	3199 397.19	3198 864.33	3198 331.52	3197 798.77	3197 266.04
131 17 30	3190 546.38	3190 022.55	3189 498.78	3188 975.05	3188 451.37
131 20 00	3181 695.37	3181 180.56	3180 665.82	3180 151.13	3179 636.49
131 22 30	3172 844.16	3172 338.39	3171 832.68	3171 327.02	3170 821.42
131 25 00	3163 992.76	3163 496.01	3162 999.34	3162 502.72	3162 006.16
131 27 30	3155 141.15	3154 653.45	3154 165.80	3153 678.22	3153 190.71
131 30 00	3146 289.36	3145 810.69	3145 332.09	3144 853.55	3144 375.07
131 32 30	3137 437.38	3136 967.74	3136 498.18	3136 028.68	3135 559.25
131 35 00	3128 585.20	3128 124.60	3127 664.08	3127 203.63	3126 743.24
131 37 30	3119 732.84	3119 281.28	3118 829.80	3118 378.40	3117 927.06
131 40 00	3110 880.29	3110 437.77	3109 995.34	3109 552.97	3109 110.69
131 42 30	3102 027.56	3101 594.08	3101 160.69	3100 727.38	3100 294.15
131 45 00	3093 174.65	3092 750.22	3092 325.87	3091 901.61	3091 477.43
131 47 30	3084 321.57	3083 906.17	3083 490.88	3083 075.67	3082 660.54
131 50 00	3075 468.30	3075 061.95	3074 655.70	3074 249.55	3073 843.48
131 52 30	3066 614.86	3066 217.57	3065 820.37	3065 423.26	3065 026.25
131 55 00	3057 761.25	3057 373.00	3056 984.85	3056 596.80	3056 208.85
131 57 30	3048 907.47	3048 528.27	3048 149.18	3047 770.18	3047 391.29
132 00 00	3040 053.52	3039 683.37	3039 313.34	3038 943.40	3038 573.57

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.02	+.03	+.03	+.03

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	54 30 00	54 32 30	54 35 00	54 37 30	54 40 00
129 30 00	1000 752.42	1015 941.22	1031 130.17	1046 319.27	1061 508.56
129 32 30	1000 224.99	1015 414.28	1030 603.72	1045 793.30	1060 983.07
129 35 00	999 702.78	1014 892.55	1030 082.48	1045 272.55	1060 462.79
129 37 30	999 185.79	1014 376.04	1029 566.44	1044 756.99	1059 947.72
129 40 00	998 674.02	1013 864.75	1029 055.63	1044 246.65	1059 437.85
129 42 30	998 167.46	1013 358.67	1028 550.03	1043 741.52	1058 933.20
129 45 00	997 666.14	1012 857.82	1028 049.65	1043 241.61	1058 433.75
129 47 30	997 170.03	1012 362.18	1027 554.48	1042 746.91	1057 939.51
129 50 00	996 679.15	1011 871.77	1027 064.52	1042 257.41	1057 450.48
129 52 30	996 193.49	1011 386.57	1026 579.79	1041 773.14	1056 966.67
129 55 00	995 713.05	1010 906.60	1026 100.27	1041 294.08	1056 488.06
129 57 30	995 237.86	1010 431.85	1025 625.98	1040 820.24	1056 014.67
130 00 00	994 767.88	1009 962.32	1025 156.91	1040 351.62	1055 546.49
130 02 30	994 303.12	1009 498.03	1024 693.06	1039 888.21	1055 083.53
130 05 00	993 843.60	1009 038.94	1024 234.42	1039 430.01	1054 625.77
130 07 30	993 389.31	1008 585.10	1023 781.01	1038 977.05	1054 173.25
130 10 00	992 940.25	1008 136.47	1023 332.83	1038 529.30	1053 725.93
130 12 30	992 496.41	1007 693.08	1022 889.86	1038 086.77	1053 283.83
130 15 00	992 057.81	1007 254.91	1022 452.13	1037 649.46	1052 846.95
130 17 30	991 624.44	1006 821.98	1022 019.62	1037 217.37	1052 415.28
130 20 00	991 196.31	1006 394.26	1021 592.33	1036 790.51	1051 988.85
130 22 30	990 773.41	1005 971.79	1021 170.28	1036 368.88	1051 567.62
130 25 00	990 355.75	1005 554.54	1020 753.45	1035 952.46	1051 151.63
130 27 30	989 943.32	1005 142.53	1020 341.85	1035 541.28	1050 740.84
130 30 00	989 536.13	1004 735.75	1019 935.48	1035 135.31	1050 335.29
130 32 30	989 134.17	1004 334.21	1019 534.35	1034 734.58	1049 934.96
130 35 00	988 737.46	1003 937.90	1019 138.44	1034 339.07	1049 539.86
130 37 30	988 345.98	1003 546.82	1018 747.77	1033 948.80	1049 149.98
130 40 00	987 959.75	1003 160.99	1018 362.32	1033 563.76	1048 765.32
130 42 30	987 578.76	1002 780.39	1017 982.12	1033 183.94	1048 385.90
130 45 00	987 203.00	1002 405.02	1017 607.15	1032 809.36	1048 011.70
130 47 30	986 832.49	1002 034.90	1017 237.41	1032 440.01	1047 642.73
130 50 00	986 467.23	1001 670.02	1016 872.91	1032 075.89	1047 278.99
130 52 30	986 107.20	1001 310.38	1016 513.65	1031 717.00	1046 920.48
130 55 00	985 752.42	1000 955.98	1016 159.63	1031 363.35	1046 567.20
130 57 30	985 402.90	1000 606.82	1015 810.85	1031 014.94	1046 219.16
131 00 00	985 058.61	1000 262.91	1015 467.30	1030 671.76	1045 876.34
131 02 30	984 719.58	999 924.25	1015 129.00	1030 333.83	1045 538.76
131 05 00	984 385.78	999 590.82	1014 795.94	1030 001.12	1045 206.42
131 07 30	984 057.25	999 262.64	1014 468.12	1029 673.66	1044 879.31
131 10 00	983 733.96	998 939.71	1014 145.54	1029 351.44	1044 557.44
131 12 30	983 415.93	998 622.03	1013 828.21	1029 034.45	1044 240.80
131 15 00	983 103.14	998 309.59	1013 516.12	1028 722.71	1043 929.41
131 17 30	982 795.61	998 002.41	1013 209.28	1028 416.21	1043 623.25
131 20 00	982 493.33	997 700.48	1012 907.69	1028 114.95	1043 322.33
131 22 30	982 196.31	997 403.79	1012 611.34	1027 818.94	1043 026.65
131 25 00	981 904.54	997 112.36	1012 320.24	1027 528.17	1042 736.22
131 27 30	981 618.02	996 826.18	1012 034.39	1027 242.66	1042 451.02
131 30 00	981 336.77	996 545.25	1011 753.79	1026 962.38	1042 171.07
131 32 30	981 060.77	996 269.58	1011 478.44	1026 687.35	1041 896.36
131 35 00	980 790.03	995 999.16	1011 208.34	1026 417.57	1041 626.89
131 37 30	980 524.55	995 734.00	1010 943.50	1026 153.04	1041 362.67
131 40 00	980 264.33	995 474.10	1010 683.91	1025 893.76	1041 103.70
131 42 30	980 009.37	995 219.45	1010 429.57	1025 639.73	1040 849.98
131 45 00	979 759.68	994 970.06	1010 180.49	1025 390.95	1040 601.50
131 47 30	979 515.25	994 725.93	1009 936.66	1025 147.42	1040 358.26
131 50 00	979 276.08	994 487.06	1009 698.09	1024 909.15	1040 120.29
131 52 30	979 042.18	994 253.46	1009 464.78	1024 676.13	1039 887.56
131 55 00	978 813.54	994 025.11	1009 236.72	1024 448.37	1039 660.08
131 57 30	978 590.16	993 802.03	1009 013.93	1024 225.86	1039 437.85
132 00 00	978 372.05	993 584.21	1008 796.40	1024 008.60	1039 220.88

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.24	-.31	-.37	-.42	-.47	-.52	-.56	-.59	-.61	-.63	-.65	-.66	-.66

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	54 30 00	54 32 30	54 35 00	54 37 30	54 40 00
132 00 00	3040 053.52	3039 683.37	3039 313.34	3038 943.40	3038 573.57
132 02 30	3031 199.40	3030 838.31	3030 477.33	3030 116.45	3029 755.68
132 05 00	3022 345.11	3021 993.08	3021 641.15	3021 289.34	3020 937.64
132 07 30	3013 490.67	3013 147.70	3012 804.83	3012 462.08	3012 119.44
132 10 00	3004 636.07	3004 302.15	3003 968.34	3003 634.66	3003 301.09
132 12 30	2995 781.31	2995 456.44	2995 131.70	2994 807.08	2994 482.58
132 15 00	2986 926.39	2986 610.59	2986 294.92	2985 979.36	2985 663.93
132 17 30	2978 071.32	2977 764.58	2977 457.97	2977 151.49	2976 845.12
132 20 00	2969 216.09	2968 918.42	2968 620.87	2968 323.46	2968 026.17
132 22 30	2960 360.72	2960 072.12	2959 783.64	2959 495.30	2959 207.09
132 25 00	2951 505.20	2951 225.66	2950 946.25	2950 666.99	2950 387.85
132 27 30	2942 649.54	2942 379.06	2942 108.73	2941 838.53	2941 568.48
132 30 00	2933 793.73	2933 532.33	2933 271.07	2933 009.95	2932 748.97
132 32 30	2924 937.78	2924 685.45	2924 433.26	2924 181.22	2923 929.32
132 35 00	2916 081.68	2915 838.42	2915 595.32	2915 352.36	2915 109.54
132 37 30	2907 225.46	2906 991.28	2906 757.25	2906 523.37	2906 289.63
132 40 00	2898 369.10	2898 143.99	2897 919.04	2897 694.25	2897 469.60
132 42 30	2889 512.61	2889 296.58	2889 080.71	2888 864.99	2888 649.43
132 45 00	2880 655.98	2880 449.04	2880 242.24	2880 035.62	2879 829.14
132 47 30	2871 799.23	2871 601.36	2871 403.66	2871 206.12	2871 008.73
132 50 00	2862 942.35	2862 753.57	2862 564.95	2862 376.49	2862 188.20
132 52 30	2854 085.35	2853 905.65	2853 726.12	2853 546.75	2853 367.55
132 55 00	2845 228.23	2845 057.61	2844 887.16	2844 716.89	2844 546.78
132 57 30	2836 370.99	2836 209.46	2836 048.10	2835 886.92	2835 725.91
133 00 00	2827 513.62	2827 361.18	2827 208.92	2827 056.83	2826 904.91
133 02 30	2818 656.14	2818 512.79	2818 369.62	2818 226.63	2818 083.82
133 05 00	2809 798.56	2809 664.30	2809 530.22	2809 396.33	2809 262.61
133 07 30	2800 940.85	2800 815.68	2800 690.70	2800 565.91	2800 441.30
133 10 00	2792 083.04	2791 966.97	2791 851.08	2791 735.39	2791 619.88
133 12 30	2783 225.13	2783 118.15	2783 011.36	2782 904.77	2782 798.37
133 15 00	2774 367.10	2774 269.22	2774 171.53	2774 074.05	2773 976.75
133 17 30	2765 508.98	2765 420.19	2765 331.61	2765 243.23	2765 155.03
133 20 00	2756 650.75	2756 571.07	2756 491.59	2756 412.32	2756 333.23
133 22 30	2747 792.43	2747 721.85	2747 651.48	2747 581.31	2747 511.34
133 25 00	2738 934.01	2738 872.53	2738 811.26	2738 750.20	2738 689.34
133 27 30	2730 075.50	2730 023.13	2729 970.96	2729 919.01	2729 867.27
133 30 00	2721 216.89	2721 173.62	2721 130.57	2721 087.74	2721 045.10
133 32 30	2712 358.19	2712 324.04	2712 290.09	2712 256.37	2712 222.86
133 35 00	2703 499.42	2703 474.37	2703 449.54	2703 424.93	2703 400.53
133 37 30	2694 640.54	2694 624.61	2694 608.90	2694 593.40	2694 578.13
133 40 00	2685 781.59	2685 774.77	2685 768.17	2685 761.80	2685 755.65
133 42 30	2676 922.56	2676 924.85	2676 927.38	2676 930.12	2676 933.09
133 45 00	2668 063.45	2668 074.86	2668 086.49	2668 098.36	2668 110.46
133 47 30	2659 204.26	2659 224.79	2659 245.54	2659 266.54	2659 287.76
133 50 00	2650 345.01	2650 374.65	2650 404.53	2650 434.65	2650 464.99
133 52 30	2641 485.68	2641 524.43	2641 563.44	2641 602.69	2641 642.16
133 55 00	2632 626.27	2632 674.15	2632 722.28	2632 770.65	2632 819.26
133 57 30	2623 766.81	2623 823.81	2623 881.07	2623 938.57	2623 996.31
134 00 00	2614 907.27	2614 973.40	2615 039.79	2615 106.42	2615 173.29
134 02 30	2606 047.67	2606 122.93	2606 198.44	2606 274.20	2606 350.21
134 05 00	2597 188.01	2597 272.40	2597 357.04	2597 441.94	2597 527.09
134 07 30	2588 328.30	2588 421.81	2588 515.59	2588 609.62	2588 703.90
134 10 00	2579 468.52	2579 571.16	2579 674.08	2579 777.25	2579 880.67
134 12 30	2570 608.69	2570 720.48	2570 832.52	2570 944.83	2571 057.39
134 15 00	2561 748.81	2561 869.73	2561 990.91	2562 112.36	2562 234.06
134 17 30	2552 888.88	2553 018.93	2553 149.25	2553 279.84	2553 410.70
134 20 00	2544 028.90	2544 168.09	2544 307.56	2544 447.29	2544 587.29
134 22 30	2535 168.88	2535 317.21	2535 465.81	2535 614.69	2535 763.84
134 25 00	2526 308.81	2526 466.28	2526 624.03	2526 782.06	2526 940.35
134 27 30	2517 448.71	2517 615.32	2517 782.22	2517 949.39	2518 116.83
134 30 00	2508 588.56	2508 764.31	2508 940.36	2509 116.68	2509 293.28

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	54 30 00	54 32 30	54 35 00	54 37 30	54 40 00
132 00 00	978 372.05	993 584.21	1008 796.40	1024 008.60	1039 220.88
132 02 30	978 159.22	993 371.65	1008 584.12	1023 796.61	1039 009.17
132 05 00	977 951.65	993 164.37	1008 377.11	1023 589.87	1038 802.70
132 07 30	977 749.36	992 962.35	1008 175.37	1023 388.40	1038 601.49
132 10 00	977 552.33	992 765.59	1007 978.88	1023 192.18	1038 405.54
132 12 30	977 360.58	992 574.11	1007 787.66	1023 001.22	1038 214.85
132 15 00	977 174.10	992 387.89	1007 601.70	1022 815.53	1038 029.41
132 17 30	976 992.89	992 206.94	1007 421.02	1022 635.10	1037 849.23
132 20 00	976 816.95	992 031.27	1007 245.60	1022 459.93	1037 674.32
132 22 30	976 646.29	991 860.86	1007 075.44	1022 290.03	1037 504.66
132 25 00	976 480.91	991 695.73	1006 910.55	1022 125.39	1037 340.26
132 27 30	976 320.80	991 535.86	1006 750.94	1021 966.01	1037 181.12
132 30 00	976 165.97	991 381.28	1006 596.60	1021 811.91	1037 027.26
132 32 30	976 016.42	991 231.97	1006 447.53	1021 663.07	1036 878.65
132 35 00	975 872.16	991 087.94	1006 303.72	1021 519.50	1036 735.31
132 37 30	975 733.16	990 949.18	1006 165.19	1021 381.20	1036 597.23
132 40 00	975 599.46	990 815.70	1006 031.94	1021 248.17	1036 464.43
132 42 30	975 471.03	990 687.49	1005 903.96	1021 120.41	1036 336.88
132 45 00	975 347.89	990 564.57	1005 781.26	1020 997.92	1036 214.61
132 47 30	975 230.03	990 446.93	1005 663.83	1020 880.70	1036 097.61
132 50 00	975 117.45	990 334.57	1005 551.68	1020 768.77	1035 985.88
132 52 30	975 010.17	990 227.49	1005 444.82	1020 662.11	1035 879.41
132 55 00	974 908.17	990 125.70	1005 343.22	1020 560.71	1035 778.22
132 57 30	974 811.45	990 029.19	1005 246.91	1020 464.60	1035 682.31
133 00 00	974 720.02	989 937.96	1005 155.88	1020 373.76	1035 591.66
133 02 30	974 633.88	989 852.02	1005 070.13	1020 288.21	1035 506.29
133 05 00	974 553.03	989 771.36	1004 989.66	1020 207.92	1035 426.19
133 07 30	974 477.48	989 696.00	1004 914.48	1020 132.93	1035 351.38
133 10 00	974 407.21	989 625.92	1004 844.58	1020 063.21	1035 281.84
133 12 30	974 342.24	989 561.13	1004 779.98	1019 998.77	1035 217.57
133 15 00	974 282.57	989 501.63	1004 720.64	1019 939.62	1035 158.59
133 17 30	974 228.19	989 447.42	1004 666.61	1019 885.75	1035 104.89
133 20 00	974 179.10	989 398.50	1004 617.86	1019 837.16	1035 056.46
133 22 30	974 135.31	989 354.87	1004 574.40	1019 793.86	1035 013.32
133 25 00	974 096.82	989 316.55	1004 536.23	1019 755.84	1034 975.46
133 27 30	974 063.62	989 283.51	1004 503.35	1019 723.12	1034 942.88
133 30 00	974 035.73	989 255.76	1004 475.75	1019 695.68	1034 915.59
133 32 30	974 013.13	989 233.32	1004 453.46	1019 673.53	1034 893.58
133 35 00	973 995.83	989 216.17	1004 436.45	1019 656.67	1034 876.86
133 37 30	973 983.84	989 204.32	1004 424.74	1019 645.09	1034 865.42
133 40 00	973 977.15	989 197.77	1004 418.33	1019 638.82	1034 859.28
133 42 30	973 975.76	989 196.52	1004 417.21	1019 637.83	1034 858.41
133 45 00	973 979.68	989 200.57	1004 421.39	1019 642.13	1034 862.84
133 47 30	973 988.90	989 209.92	1004 430.87	1019 651.73	1034 872.57
133 50 00	974 003.43	989 224.57	1004 445.64	1019 666.63	1034 887.58
133 52 30	974 023.27	989 244.53	1004 465.71	1019 686.82	1034 907.88
133 55 00	974 048.42	989 269.79	1004 491.09	1019 712.31	1034 933.47
133 57 30	974 078.87	989 300.36	1004 521.77	1019 743.09	1034 964.37
134 00 00	974 114.63	989 336.23	1004 557.75	1019 779.17	1035 000.55
134 02 30	974 155.71	989 377.41	1004 599.03	1019 820.56	1035 042.03
134 05 00	974 202.10	989 423.90	1004 645.62	1019 867.25	1035 088.81
134 07 30	974 253.79	989 475.70	1004 697.51	1019 919.22	1035 140.88
134 10 00	974 310.80	989 532.80	1004 754.71	1019 976.51	1035 198.25
134 12 30	974 373.13	989 595.22	1004 817.21	1020 039.10	1035 260.93
134 15 00	974 440.77	989 662.95	1004 885.02	1020 107.00	1035 328.90
134 17 30	974 513.74	989 735.99	1004 958.14	1020 180.19	1035 402.17
134 20 00	974 592.01	989 814.35	1005 036.58	1020 258.70	1035 480.74
134 22 30	974 675.60	989 898.01	1005 120.32	1020 342.51	1035 564.62
134 25 00	974 764.52	989 987.00	1005 209.37	1020 431.62	1035 653.80
134 27 30	974 858.75	990 081.30	1005 303.73	1020 526.05	1035 748.29
134 30 00	974 958.30	990 180.92	1005 403.41	1020 625.78	1035 848.07

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.24	-.31	-.37	-.42	-.47	-.52	-.56	-.59	-.61	-.63	-.65	-.66	-.66

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	54 40 00	54 42 30	54 45 00	54 47 30	54 50 00
129 30 00	3567 279.31	3566 368.22	3565 457.02	3564 545.71	3563 634.28
129 32 30	3558 474.66	3557 572.55	3556 670.33	3555 768.01	3554 865.58
129 35 00	3549 669.73	3548 776.60	3547 883.37	3546 990.04	3546 096.60
129 37 30	3540 864.52	3539 980.37	3539 096.13	3538 211.79	3537 327.34
129 40 00	3532 059.03	3531 183.88	3530 308.62	3529 433.28	3528 557.83
129 42 30	3523 253.28	3522 387.10	3521 520.84	3520 654.49	3519 788.04
129 45 00	3514 447.24	3513 590.06	3512 732.79	3511 875.43	3511 017.98
129 47 30	3505 640.95	3504 792.75	3503 944.48	3503 096.11	3502 247.66
129 50 00	3496 834.37	3495 995.18	3495 155.89	3494 316.53	3493 477.08
129 52 30	3488 027.54	3487 197.33	3486 367.05	3485 536.68	3484 706.24
129 55 00	3479 220.45	3478 399.23	3477 577.94	3476 756.58	3475 935.14
129 57 30	3470 413.09	3469 600.87	3468 788.58	3467 976.22	3467 163.78
130 00 00	3461 605.47	3460 802.25	3459 998.95	3459 195.60	3458 392.17
130 02 30	3452 797.60	3452 003.37	3451 209.08	3450 414.73	3449 620.31
130 05 00	3443 989.47	3443 204.24	3442 418.95	3441 633.61	3440 848.19
130 07 30	3435 181.08	3434 404.85	3433 628.57	3432 852.23	3432 075.83
130 10 00	3426 372.45	3425 605.23	3424 837.94	3424 070.62	3423 303.23
130 12 30	3417 563.56	3416 805.34	3416 047.07	3415 288.75	3414 530.38
130 15 00	3408 754.42	3408 005.21	3407 255.94	3406 506.64	3405 757.28
130 17 30	3399 945.04	3399 204.84	3398 464.58	3397 724.29	3396 983.95
130 20 00	3391 135.42	3390 404.22	3389 672.98	3388 941.70	3388 210.37
130 22 30	3382 325.55	3381 603.36	3380 881.13	3380 158.87	3379 436.56
130 25 00	3373 515.45	3372 802.27	3372 089.06	3371 375.81	3370 662.52
130 27 30	3364 705.10	3364 000.94	3363 296.74	3362 592.51	3361 888.24
130 30 00	3355 894.52	3355 199.37	3354 504.19	3353 808.97	3353 113.74
130 32 30	3347 083.71	3346 397.57	3345 711.41	3345 025.22	3344 339.00
130 35 00	3338 272.67	3337 595.54	3336 918.40	3336 241.23	3335 564.04
130 37 30	3329 461.39	3328 793.28	3328 125.16	3327 457.02	3326 788.86
130 40 00	3320 649.89	3319 990.80	3319 331.70	3318 672.59	3318 013.45
130 42 30	3311 838.16	3311 188.09	3310 538.01	3309 887.92	3309 237.82
130 45 00	3303 026.21	3302 385.16	3301 744.11	3301 103.04	3300 461.97
130 47 30	3294 214.03	3293 582.01	3292 949.98	3292 317.95	3291 685.91
130 50 00	3285 401.63	3284 778.64	3284 155.64	3283 532.64	3282 909.63
130 52 30	3276 589.02	3275 975.05	3275 361.08	3274 747.11	3274 133.15
130 55 00	3267 776.20	3267 171.25	3266 566.31	3265 961.38	3265 356.44
130 57 30	3258 963.15	3258 367.24	3257 771.33	3257 175.43	3256 579.54
131 00 00	3250 149.90	3249 563.01	3248 976.14	3248 389.28	3247 802.42
131 02 30	3241 336.44	3240 758.58	3240 180.74	3239 602.92	3239 025.11
131 05 00	3232 522.76	3231 953.94	3231 385.14	3230 816.35	3230 247.59
131 07 30	3223 708.89	3223 149.10	3222 589.34	3222 029.60	3221 469.87
131 10 00	3214 894.81	3214 344.05	3213 793.33	3213 242.63	3212 691.95
131 12 30	3206 080.52	3205 538.81	3204 997.12	3204 455.46	3203 913.83
131 15 00	3197 266.04	3196 733.37	3196 200.72	3195 668.11	3195 135.53
131 17 30	3188 451.37	3187 927.73	3187 404.13	3186 880.56	3186 357.03
131 20 00	3179 636.49	3179 121.89	3178 607.33	3178 092.82	3177 578.33
131 22 30	3170 821.42	3170 315.86	3169 810.36	3169 304.89	3168 799.46
131 25 00	3162 006.16	3161 509.65	3161 013.19	3160 516.77	3160 020.40
131 27 30	3153 190.71	3152 703.25	3152 215.83	3151 728.47	3151 241.15
131 30 00	3144 375.07	3143 896.66	3143 418.30	3142 939.99	3142 461.72
131 32 30	3135 559.25	3135 089.88	3134 620.57	3134 151.31	3133 682.11
131 35 00	3126 743.24	3126 282.93	3125 822.67	3125 362.47	3124 902.32
131 37 30	3117 927.06	3117 475.80	3117 024.59	3116 573.45	3116 122.37
131 40 00	3109 110.69	3108 668.48	3108 226.33	3107 784.25	3107 342.23
131 42 30	3100 294.15	3099 860.99	3099 427.90	3098 994.88	3098 561.92
131 45 00	3091 477.43	3091 053.33	3090 629.30	3090 205.34	3089 781.45
131 47 30	3082 660.54	3082 245.50	3081 830.53	3081 415.63	3081 000.80
131 50 00	3073 843.48	3073 437.49	3073 031.58	3072 625.75	3072 219.99
131 52 30	3065 026.25	3064 629.32	3064 232.48	3063 835.72	3063 439.03
131 55 00	3056 208.85	3055 820.98	3055 433.21	3055 045.51	3054 657.90
131 57 30	3047 391.29	3047 012.49	3046 633.78	3046 255.15	3045 876.61
132 00 00	3038 573.57	3038 203.83	3037 834.19	3037 464.63	3037 095.16

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.02	+.03	+.03	+.03

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	54 40 00	54 42 30	54 45 00	54 47 30	54 50 00
129 30 00	1061 508.56	1076 697.97	1091 887.58	1107 077.32	1122 267.24
129 32 30	1060 983.07	1076 172.97	1091 363.06	1106 553.28	1121 743.68
129 35 00	1060 462.79	1075 653.17	1090 843.74	1106 034.43	1121 225.30
129 37 30	1059 947.72	1075 138.57	1090 329.61	1105 520.78	1120 712.12
129 40 00	1059 437.85	1074 629.18	1089 820.69	1105 012.33	1120 204.13
129 42 30	1058 933.20	1074 124.99	1089 316.97	1104 509.07	1119 701.34
129 45 00	1058 433.75	1073 626.01	1088 818.45	1104 011.02	1119 203.74
129 47 30	1057 939.51	1073 132.24	1088 325.14	1103 518.16	1118 711.34
129 50 00	1057 450.48	1072 643.66	1087 837.02	1103 030.50	1118 224.13
129 52 30	1056 966.67	1072 160.31	1087 354.11	1102 548.04	1117 742.13
129 55 00	1056 488.06	1071 682.15	1086 876.41	1102 070.78	1117 265.32
129 57 30	1056 014.67	1071 209.21	1086 403.92	1101 598.74	1116 793.71
130 00 00	1055 546.49	1070 741.48	1085 936.62	1101 131.89	1116 327.31
130 02 30	1055 083.53	1070 278.95	1085 474.54	1100 670.25	1115 866.10
130 05 00	1054 625.77	1069 821.64	1085 017.67	1100 213.81	1115 410.09
130 07 30	1054 173.25	1069 369.54	1084 566.01	1099 762.57	1114 959.28
130 10 00	1053 725.93	1068 922.66	1084 119.55	1099 316.54	1114 513.68
130 12 30	1053 283.83	1068 480.99	1083 678.30	1098 875.73	1114 073.28
130 15 00	1052 846.95	1068 044.53	1083 242.27	1098 440.11	1113 638.09
130 17 30	1052 415.28	1067 613.29	1082 811.45	1098 009.71	1113 208.11
130 20 00	1051 988.85	1067 187.27	1082 385.84	1097 584.51	1112 783.32
130 22 30	1051 567.62	1066 766.46	1081 965.45	1097 164.53	1112 363.75
130 25 00	1051 151.63	1066 350.87	1081 550.26	1096 749.76	1111 949.38
130 27 30	1050 740.84	1065 940.50	1081 140.30	1096 340.20	1111 540.22
130 30 00	1050 335.29	1065 535.35	1080 735.56	1095 935.85	1111 136.28
130 32 30	1049 934.96	1065 135.42	1080 336.03	1095 536.72	1110 737.54
130 35 00	1049 539.86	1064 740.72	1079 941.71	1095 142.80	1110 344.01
130 37 30	1049 149.98	1064 351.23	1079 552.62	1094 754.10	1109 955.69
130 40 00	1048 765.32	1063 966.97	1079 168.74	1094 370.61	1109 572.59
130 42 30	1048 385.90	1063 587.93	1078 790.09	1093 992.34	1109 194.70
130 45 00	1048 011.70	1063 214.11	1078 416.66	1093 619.28	1108 822.02
130 47 30	1047 642.73	1062 845.53	1078 048.44	1093 251.45	1108 454.56
130 50 00	1047 278.99	1062 482.17	1077 685.46	1092 888.83	1108 092.32
130 52 30	1046 920.48	1062 124.03	1077 327.69	1092 531.44	1107 735.28
130 55 00	1046 567.20	1061 771.11	1076 975.15	1092 179.26	1107 383.48
130 57 30	1046 219.16	1061 423.43	1076 627.84	1091 832.31	1107 036.88
131 00 00	1045 876.34	1061 080.99	1076 285.74	1091 490.58	1106 695.51
131 02 30	1045 538.76	1060 743.76	1075 948.88	1091 154.07	1106 359.35
131 05 00	1045 206.42	1060 411.78	1075 617.25	1090 822.79	1106 028.41
131 07 30	1044 879.31	1060 085.02	1075 290.84	1090 496.73	1105 702.71
131 10 00	1044 557.44	1059 763.50	1074 969.66	1090 175.89	1105 382.21
131 12 30	1044 240.80	1059 447.21	1074 653.72	1089 860.29	1105 066.95
131 15 00	1043 929.41	1059 136.15	1074 343.00	1089 549.91	1104 756.90
131 17 30	1043 623.25	1058 830.33	1074 037.52	1089 244.76	1104 452.09
131 20 00	1043 322.33	1058 529.74	1073 737.27	1088 944.84	1104 152.49
131 22 30	1043 026.65	1058 234.40	1073 442.25	1088 650.14	1103 858.12
131 25 00	1042 736.22	1057 944.29	1073 152.46	1088 360.68	1103 568.98
131 27 30	1042 451.02	1057 659.42	1072 867.91	1088 076.45	1103 285.07
131 30 00	1042 171.07	1057 379.78	1072 588.59	1087 797.45	1103 006.39
131 32 30	1041 896.36	1057 105.39	1072 314.52	1087 523.69	1102 732.93
131 35 00	1041 626.89	1056 836.24	1072 045.68	1087 255.15	1102 464.70
131 37 30	1041 362.67	1056 572.33	1071 782.08	1086 991.86	1102 201.71
131 40 00	1041 103.70	1056 313.66	1071 523.71	1086 733.80	1101 943.95
131 42 30	1040 849.98	1056 060.24	1071 270.59	1086 480.97	1101 691.42
131 45 00	1040 601.50	1055 812.06	1071 022.71	1086 233.39	1101 444.13
131 47 30	1040 358.26	1055 569.13	1070 780.07	1085 991.04	1101 202.07
131 50 00	1040 120.29	1055 331.44	1070 542.67	1085 753.93	1100 965.25
131 52 30	1039 887.56	1055 099.01	1070 310.51	1085 522.06	1100 733.65
131 55 00	1039 660.08	1054 871.81	1070 083.61	1085 295.42	1100 507.30
131 57 30	1039 437.85	1054 649.86	1069 861.94	1085 074.03	1100 286.18
132 00 00	1039 220.88	1054 433.17	1069 645.52	1084 857.89	1100 070.30

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.42	-.47	-.51	-.55	-.58	-.60	-.62	-.64	-.65	-.65

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	54 40 00	54 42 30	54 45 00	54 47 30	54 50 00
132 00 00	3038 573.57	3038 203.83	3037 834.19	3037 464.63	3037 095.16
132 02 30	3029 755.68	3029 395.01	3029 034.44	3028 673.95	3028 313.56
132 05 00	3020 937.64	3020 586.03	3020 234.53	3019 883.12	3019 531.81
132 07 30	3012 119.44	3011 776.91	3011 434.48	3011 092.14	3010 749.90
132 10 00	3003 301.09	3002 967.63	3002 634.26	3002 301.01	3001 967.85
132 12 30	2994 482.58	2994 158.19	2993 833.91	2993 509.73	2993 185.65
132 15 00	2985 663.93	2985 348.62	2985 033.40	2984 718.30	2984 403.31
132 17 30	2976 845.12	2976 538.88	2976 232.75	2975 926.74	2975 620.82
132 20 00	2968 026.17	2967 729.01	2967 431.96	2967 135.02	2966 838.19
132 22 30	2959 207.09	2958 919.00	2958 631.03	2958 343.18	2958 055.44
132 25 00	2950 387.85	2950 108.84	2949 829.95	2949 551.18	2949 272.53
132 27 30	2941 568.48	2941 298.55	2941 028.74	2940 759.06	2940 489.50
132 30 00	2932 748.97	2932 488.12	2932 227.40	2931 966.82	2931 706.34
132 32 30	2923 929.32	2923 677.56	2923 425.93	2923 174.43	2922 923.05
132 35 00	2915 109.54	2914 866.86	2914 624.32	2914 381.91	2914 139.63
132 37 30	2906 289.63	2906 056.04	2905 822.59	2905 589.27	2905 356.09
132 40 00	2897 469.60	2897 245.09	2897 020.73	2896 796.51	2896 572.42
132 42 30	2888 649.43	2888 434.02	2888 218.75	2888 003.62	2887 788.63
132 45 00	2879 829.14	2879 622.82	2879 416.65	2879 210.62	2879 004.73
132 47 30	2871 008.73	2870 811.50	2870 614.43	2870 417.49	2870 220.70
132 50 00	2862 188.20	2862 000.07	2861 812.08	2861 624.25	2861 436.57
132 52 30	2853 367.55	2853 188.51	2853 009.63	2852 830.90	2852 652.32
132 55 00	2844 546.78	2844 376.84	2844 207.06	2844 037.43	2843 867.96
132 57 30	2835 725.91	2835 565.07	2835 404.38	2835 243.87	2835 083.50
133 00 00	2826 904.91	2826 753.18	2826 601.59	2826 450.18	2826 298.92
133 02 30	2818 083.82	2817 941.17	2817 798.70	2817 656.39	2817 514.24
133 05 00	2809 262.61	2809 129.07	2808 995.70	2808 862.51	2808 729.47
133 07 30	2800 441.30	2800 316.86	2800 192.60	2800 068.51	2799 944.59
133 10 00	2791 619.88	2791 504.55	2791 389.40	2791 274.42	2791 159.61
133 12 30	2782 798.37	2782 692.14	2782 586.10	2782 480.24	2782 374.55
133 15 00	2773 976.75	2773 879.63	2773 782.71	2773 685.96	2773 589.38
133 17 30	2765 155.03	2765 067.04	2764 979.22	2764 891.59	2764 804.14
133 20 00	2756 333.23	2756 254.34	2756 175.64	2756 097.13	2756 018.80
133 22 30	2747 511.34	2747 441.56	2747 371.97	2747 302.58	2747 233.37
133 25 00	2738 689.34	2738 628.68	2738 568.22	2738 507.94	2738 447.86
133 27 30	2729 867.27	2729 815.72	2729 764.38	2729 713.22	2729 662.27
133 30 00	2721 045.10	2721 002.68	2720 960.45	2720 918.43	2720 876.59
133 32 30	2712 222.86	2712 189.55	2712 156.45	2712 123.55	2712 090.84
133 35 00	2703 400.53	2703 376.35	2703 352.38	2703 328.60	2703 305.02
133 37 30	2694 578.13	2694 563.07	2694 548.22	2694 533.57	2694 519.12
133 40 00	2685 755.65	2685 749.70	2685 743.98	2685 738.46	2685 733.15
133 42 30	2676 933.09	2676 936.28	2676 939.69	2676 943.30	2676 947.12
133 45 00	2668 110.46	2668 122.77	2668 135.31	2668 148.06	2668 161.01
133 47 30	2659 287.76	2659 309.20	2659 330.87	2659 352.75	2659 374.84
133 50 00	2650 464.99	2650 495.57	2650 526.37	2650 557.38	2650 588.62
133 52 30	2641 642.16	2641 681.87	2641 721.80	2641 761.95	2641 802.33
133 55 00	2632 819.26	2632 868.10	2632 917.17	2632 966.46	2633 015.98
133 57 30	2623 996.31	2624 054.28	2624 112.49	2624 170.93	2624 229.58
134 00 00	2615 173.29	2615 240.40	2615 307.75	2615 375.32	2615 443.13
134 02 30	2606 350.21	2606 426.46	2606 502.95	2606 579.67	2606 656.62
134 05 00	2597 527.09	2597 612.48	2597 698.11	2597 783.97	2597 870.07
134 07 30	2588 703.90	2588 798.43	2588 893.20	2588 988.22	2589 083.46
134 10 00	2579 880.67	2579 984.34	2580 088.26	2580 192.42	2580 296.82
134 12 30	2571 057.39	2571 170.21	2571 283.27	2571 396.59	2571 510.13
134 15 00	2562 234.06	2562 356.03	2562 478.24	2562 600.70	2562 723.40
134 17 30	2553 410.70	2553 541.81	2553 673.17	2553 804.78	2553 936.64
134 20 00	2544 587.29	2544 727.55	2544 868.06	2545 008.83	2545 149.85
134 22 30	2535 763.84	2535 913.25	2536 062.91	2536 212.84	2536 363.01
134 25 00	2526 940.35	2527 098.91	2527 257.73	2527 416.81	2527 576.14
134 27 30	2518 116.83	2518 284.54	2518 452.52	2518 620.76	2518 789.26
134 30 00	2509 293.28	2509 470.15	2509 647.28	2509 824.68	2510 002.34

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	54 40 00	54 42 30	54 45 00	54 47 30	54 50 00
132 00 00	1039 220.88	1054 433.17	1069 645.52	1084 857.89	1100 070.30
132 02 30	1039 009.17	1054 221.72	1069 434.35	1084 646.99	1099 859.67
132 05 00	1038 802.70	1054 015.53	1069 228.42	1084 441.33	1099 654.27
132 07 30	1038 601.49	1053 814.59	1069 027.74	1084 240.91	1099 454.12
132 10 00	1038 405.54	1053 618.90	1068 832.31	1084 045.74	1099 259.21
132 12 30	1038 214.85	1053 428.46	1068 642.14	1083 855.81	1099 069.53
132 15 00	1038 029.41	1053 243.28	1068 457.21	1083 671.14	1098 885.11
132 17 30	1037 849.23	1053 063.36	1068 277.53	1083 491.71	1098 705.92
132 20 00	1037 674.32	1052 888.69	1068 103.11	1083 317.53	1098 531.99
132 22 30	1037 504.66	1052 719.28	1067 933.94	1083 148.60	1098 363.30
132 25 00	1037 340.26	1052 555.12	1067 770.02	1082 984.92	1098 199.85
132 27 30	1037 181.12	1052 396.22	1067 611.36	1082 826.49	1098 041.65
132 30 00	1037 027.26	1052 242.59	1067 457.96	1082 673.32	1097 888.70
132 32 30	1036 878.65	1052 094.21	1067 309.81	1082 525.40	1097 741.00
132 35 00	1036 735.31	1051 951.09	1067 166.92	1082 382.73	1097 598.55
132 37 30	1036 597.23	1051 813.24	1067 029.29	1082 245.32	1097 461.36
132 40 00	1036 464.43	1051 680.66	1066 896.91	1082 113.15	1097 329.41
132 42 30	1036 336.88	1051 553.33	1066 769.80	1081 986.25	1097 202.72
132 45 00	1036 214.61	1051 431.27	1066 647.95	1081 864.61	1097 081.27
132 47 30	1036 097.61	1051 314.47	1066 531.36	1081 748.22	1096 965.09
132 50 00	1035 985.88	1051 202.95	1066 420.03	1081 637.10	1096 854.16
132 52 30	1035 879.41	1051 096.69	1066 313.97	1081 531.23	1096 748.49
132 55 00	1035 778.22	1050 995.69	1066 213.17	1081 430.62	1096 648.07
132 57 30	1035 682.31	1050 899.97	1066 117.64	1081 335.28	1096 552.91
133 00 00	1035 591.66	1050 809.51	1066 027.37	1081 245.19	1096 463.01
133 02 30	1035 506.29	1050 724.33	1065 942.37	1081 160.37	1096 378.37
133 05 00	1035 426.19	1050 644.41	1065 862.64	1081 080.82	1096 298.99
133 07 30	1035 351.38	1050 569.77	1065 788.17	1081 006.53	1096 224.87
133 10 00	1035 281.84	1050 500.41	1065 718.97	1080 937.50	1096 156.02
133 12 30	1035 217.57	1050 436.31	1065 655.06	1080 873.75	1096 092.42
133 15 00	1035 158.59	1050 377.50	1065 596.40	1080 815.26	1096 034.09
133 17 30	1035 104.89	1050 323.96	1065 543.02	1080 762.03	1095 981.02
133 20 00	1035 056.46	1050 275.69	1065 494.91	1080 714.08	1095 933.22
133 22 30	1035 013.32	1050 232.71	1065 452.08	1080 671.40	1095 890.69
133 25 00	1034 975.46	1050 195.00	1065 414.52	1080 633.99	1095 853.43
133 27 30	1034 942.88	1050 162.57	1065 382.25	1080 601.85	1095 821.42
133 30 00	1034 915.59	1050 135.42	1065 355.23	1080 574.98	1095 794.69
133 32 30	1034 893.58	1050 113.56	1065 333.51	1080 553.39	1095 773.23
133 35 00	1034 876.86	1050 096.97	1065 317.06	1080 537.07	1095 757.05
133 37 30	1034 865.42	1050 085.67	1065 305.88	1080 526.03	1095 746.13
133 40 00	1034 859.28	1050 079.65	1065 299.99	1080 520.26	1095 740.49
133 42 30	1034 858.41	1050 078.91	1065 299.38	1080 519.77	1095 740.11
133 45 00	1034 862.84	1050 083.47	1065 304.05	1080 524.56	1095 745.02
133 47 30	1034 872.57	1050 093.30	1065 314.00	1080 534.62	1095 755.19
133 50 00	1034 887.58	1050 108.43	1065 329.24	1080 549.97	1095 770.64
133 52 30	1034 907.88	1050 128.84	1065 349.77	1080 570.60	1095 791.37
133 55 00	1034 933.47	1050 154.54	1065 375.57	1080 596.51	1095 817.38
133 57 30	1034 964.37	1050 185.54	1065 406.66	1080 627.70	1095 848.67
134 00 00	1035 000.55	1050 221.82	1065 443.04	1080 664.17	1095 885.23
134 02 30	1035 042.03	1050 263.40	1065 484.71	1080 705.93	1095 927.08
134 05 00	1035 088.81	1050 310.27	1065 531.67	1080 752.97	1095 974.21
134 07 30	1035 140.88	1050 362.43	1065 583.92	1080 805.31	1096 026.62
134 10 00	1035 198.25	1050 419.88	1065 641.45	1080 862.91	1096 084.30
134 12 30	1035 260.93	1050 482.64	1065 704.28	1080 925.82	1096 147.28
134 15 00	1035 328.90	1050 550.68	1065 772.40	1080 994.01	1096 215.53
134 17 30	1035 402.17	1050 624.02	1065 845.82	1081 067.49	1096 289.08
134 20 00	1035 480.74	1050 702.67	1065 924.52	1081 146.26	1096 367.92
134 22 30	1035 564.62	1050 786.60	1066 008.52	1081 230.32	1096 452.03
134 25 00	1035 653.80	1050 875.85	1066 097.82	1081 319.67	1096 541.44
134 27 30	1035 748.29	1050 970.39	1066 192.41	1081 414.32	1096 636.13
134 30 00	1035 848.07	1051 070.23	1066 292.31	1081 514.26	1096 736.12

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.24	-.31	-.37	-.42	-.47	-.52	-.56	-.59	-.61	-.63	-.65	-.66	-.66

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	54 50 00	54 52 30	54 55 00	54 57 30	55 00 00
129 30 00	3563 634.28	3562 722.74	3561 811.08	3560 899.28	3559 987.37
129 32 30	3554 865.58	3553 963.03	3553 060.37	3552 157.58	3551 254.67
129 35 00	3546 096.60	3545 203.05	3544 309.38	3543 415.60	3542 521.69
129 37 30	3537 327.34	3536 442.79	3535 558.13	3534 673.35	3533 788.46
129 40 00	3528 557.83	3527 682.28	3526 806.61	3525 930.84	3525 054.96
129 42 30	3519 788.04	3518 921.49	3518 054.83	3517 188.07	3516 321.19
129 45 00	3511 017.98	3510 160.43	3509 302.78	3508 445.03	3507 587.16
129 47 30	3502 247.66	3501 399.12	3500 550.47	3499 701.73	3498 852.88
129 50 00	3493 477.08	3492 637.54	3491 797.90	3490 958.17	3490 118.34
129 52 30	3484 706.24	3483 875.70	3483 045.07	3482 214.36	3481 383.55
129 55 00	3475 935.14	3475 113.61	3474 292.00	3473 470.30	3472 648.50
129 57 30	3467 163.78	3466 351.26	3465 538.66	3464 725.97	3463 913.20
130 00 00	3458 392.17	3457 588.66	3456 785.08	3455 981.40	3455 177.65
130 02 30	3449 620.31	3448 825.81	3448 031.24	3447 236.59	3446 441.85
130 05 00	3440 848.19	3440 062.71	3439 277.16	3438 491.52	3437 705.81
130 07 30	3432 075.83	3431 299.36	3430 522.82	3429 746.22	3428 969.53
130 10 00	3423 303.23	3422 535.78	3421 768.26	3421 000.67	3420 233.01
130 12 30	3414 530.38	3413 771.94	3413 013.44	3412 254.87	3411 496.24
130 15 00	3405 757.28	3405 007.86	3404 258.39	3403 508.85	3402 759.24
130 17 30	3396 983.95	3396 243.56	3395 503.10	3394 762.59	3394 022.01
130 20 00	3388 210.37	3387 479.00	3386 747.57	3386 016.09	3385 284.54
130 22 30	3379 436.56	3378 714.21	3377 991.81	3377 269.35	3376 546.84
130 25 00	3370 662.52	3369 949.20	3369 235.82	3368 522.39	3367 808.91
130 27 30	3361 888.24	3361 183.94	3360 479.59	3359 775.20	3359 070.76
130 30 00	3353 113.74	3352 418.46	3351 723.14	3351 027.78	3350 332.38
130 32 30	3344 339.00	3343 652.75	3342 966.47	3342 280.15	3341 593.78
130 35 00	3335 564.04	3334 886.82	3334 209.57	3333 532.28	3332 854.95
130 37 30	3326 788.86	3326 120.66	3325 452.45	3324 784.20	3324 115.91
130 40 00	3318 013.45	3317 354.29	3316 695.11	3316 035.90	3315 376.65
130 42 30	3309 237.82	3308 587.69	3307 937.55	3307 287.38	3306 637.17
130 45 00	3300 461.97	3299 820.88	3299 179.78	3298 538.65	3297 897.49
130 47 30	3291 685.91	3291 053.86	3290 421.79	3289 789.70	3289 157.59
130 50 00	3282 909.63	3282 286.62	3281 663.59	3281 040.55	3280 417.49
130 52 30	3274 133.15	3273 519.17	3272 905.18	3272 291.19	3271 677.17
130 55 00	3265 356.44	3264 751.51	3264 146.57	3263 541.62	3262 936.66
130 57 30	3256 579.54	3255 983.65	3255 387.75	3254 791.85	3254 195.93
131 00 00	3247 802.42	3247 215.57	3246 628.72	3246 041.87	3245 455.01
131 02 30	3239 025.11	3238 447.30	3237 869.50	3237 291.70	3236 713.89
131 05 00	3230 247.59	3229 678.83	3229 110.07	3228 541.33	3227 972.58
131 07 30	3221 469.87	3220 910.16	3220 350.46	3219 790.76	3219 231.07
131 10 00	3212 691.95	3212 141.29	3211 590.64	3211 039.99	3210 489.36
131 12 30	3203 913.83	3203 372.22	3202 830.62	3202 289.04	3201 747.46
131 15 00	3195 135.53	3194 602.97	3194 070.43	3193 537.90	3193 005.39
131 17 30	3186 357.03	3185 833.52	3185 310.04	3184 786.57	3184 263.12
131 20 00	3177 578.33	3177 063.88	3176 549.45	3176 035.05	3175 520.66
131 22 30	3168 799.46	3168 294.06	3167 788.69	3167 283.35	3166 778.03
131 25 00	3160 020.40	3159 524.05	3159 027.75	3158 531.47	3158 035.21
131 27 30	3151 241.15	3150 753.87	3150 266.62	3149 779.41	3149 292.22
131 30 00	3142 461.72	3141 983.50	3141 505.32	3141 027.17	3140 549.05
131 32 30	3133 682.11	3133 212.95	3132 743.83	3132 274.76	3131 805.71
131 35 00	3124 902.32	3124 442.23	3123 982.17	3123 522.16	3123 062.19
131 37 30	3116 122.37	3115 671.33	3115 220.35	3114 769.41	3114 318.51
131 40 00	3107 342.23	3106 900.26	3106 458.34	3106 016.48	3105 574.65
131 42 30	3098 561.92	3098 129.02	3097 696.17	3097 263.38	3096 830.63
131 45 00	3089 781.45	3089 357.61	3088 933.84	3088 510.13	3088 086.46
131 47 30	3081 000.80	3080 586.04	3080 171.34	3079 756.70	3079 342.11
131 50 00	3072 219.99	3071 814.31	3071 408.68	3071 003.11	3070 597.61
131 52 30	3063 439.03	3063 042.41	3062 645.86	3062 249.38	3061 852.95
131 55 00	3054 657.90	3054 270.35	3053 882.88	3053 495.47	3053 108.13
131 57 30	3045 876.61	3045 498.13	3045 119.74	3044 741.42	3044 363.16
132 00 00	3037 095.16	3036 725.77	3036 356.46	3035 987.22	3035 618.05

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.02	+.03	+.03	+.03

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	54 50 00	54 52 30	54 55 00	54 57 30	55 00 00
129 30 00	1122 267.24	1137 457.34	1152 647.62	1167 838.07	1183 028.69
129 32 30	1121 743.68	1136 934.25	1152 125.01	1167 315.93	1182 507.01
129 35 00	1121 225.30	1136 416.35	1151 607.58	1166 798.97	1181 990.52
129 37 30	1120 712.12	1135 903.64	1151 095.33	1166 287.18	1181 479.20
129 40 00	1120 204.13	1135 396.12	1150 588.27	1165 780.59	1180 973.06
129 42 30	1119 701.34	1134 893.79	1150 086.40	1165 279.17	1180 472.10
129 45 00	1119 203.74	1134 396.65	1149 589.72	1164 782.94	1179 976.32
129 47 30	1118 711.34	1133 904.70	1149 098.22	1164 291.90	1179 485.73
129 50 00	1118 224.13	1133 417.95	1148 611.92	1163 806.04	1179 000.32
129 52 30	1117 742.13	1132 936.39	1148 130.81	1163 325.38	1170 520.10
129 55 00	1117 265.32	1132 460.03	1147 654.89	1162 849.90	1178 045.06
129 57 30	1116 793.71	1131 988.86	1147 184.16	1162 379.61	1177 575.20
130 00 00	1116 327.31	1131 522.89	1146 718.62	1161 914.51	1177 110.53
130 02 30	1115 866.10	1131 062.11	1146 258.28	1161 454.59	1176 651.05
130 05 00	1115 410.09	1130 606.53	1145 803.13	1160 999.87	1176 196.75
130 07 30	1114 959.28	1130 156.16	1145 353.19	1160 550.35	1175 747.65
130 10 00	1114 513.68	1129 710.99	1144 908.43	1160 106.01	1175 303.73
130 12 30	1114 073.28	1129 271.01	1144 468.87	1159 666.87	1174 865.00
130 15 00	1113 638.09	1128 836.23	1144 034.51	1159 232.92	1174 431.47
130 17 30	1113 208.11	1128 406.65	1143 605.35	1158 804.17	1174 003.12
130 20 00	1112 783.32	1127 982.28	1143 181.38	1158 380.61	1173 579.97
130 22 30	1112 363.75	1127 563.12	1142 762.62	1157 962.25	1173 162.01
130 25 00	1111 949.38	1127 149.15	1142 349.06	1157 549.09	1172 749.25
130 27 30	1111 540.22	1126 740.39	1141 940.70	1157 141.12	1172 341.68
130 30 00	1111 136.28	1126 336.84	1141 537.54	1156 738.36	1171 939.30
130 32 30	1110 737.54	1125 938.50	1141 139.58	1156 340.79	1171 542.13
130 35 00	1110 344.01	1125 545.36	1140 746.83	1155 948.43	1171 150.14
130 37 30	1109 955.69	1125 157.43	1140 359.29	1155 561.27	1170 763.35
130 40 00	1109 572.59	1124 774.71	1139 976.95	1155 179.30	1170 381.77
130 42 30	1109 194.70	1124 397.19	1139 599.81	1154 802.54	1170 005.39
130 45 00	1108 822.02	1124 024.89	1139 227.88	1154 430.99	1169 634.20
130 47 30	1108 454.56	1123 657.80	1138 861.17	1154 064.63	1169 268.21
130 50 00	1108 092.32	1123 295.92	1138 499.66	1153 703.49	1168 907.43
130 52 30	1107 735.28	1122 939.26	1138 143.35	1153 347.55	1168 551.85
130 55 00	1107 383.48	1122 587.81	1137 792.26	1152 996.82	1168 201.47
130 57 30	1107 036.88	1122 241.58	1137 446.38	1152 651.29	1167 856.30
131 00 00	1106 695.51	1121 900.56	1137 105.71	1152 310.97	1167 516.33
131 02 30	1106 359.35	1121 564.76	1136 770.26	1151 975.87	1167 181.57
131 05 00	1106 028.41	1121 234.17	1136 440.02	1151 645.96	1166 852.01
131 07 30	1105 702.71	1120 908.80	1136 114.99	1151 321.28	1166 527.66
131 10 00	1105 382.21	1120 588.65	1135 795.18	1151 001.81	1166 208.51
131 12 30	1105 066.95	1120 273.71	1135 480.58	1150 687.54	1165 894.58
131 15 00	1104 756.90	1119 964.01	1135 171.20	1150 378.49	1165 585.86
131 17 30	1104 452.09	1119 659.51	1134 867.04	1150 074.65	1165 282.34
131 20 00	1104 152.49	1119 360.25	1134 568.10	1149 776.03	1164 984.04
131 22 30	1103 858.12	1119 066.20	1134 274.38	1149 482.62	1164 690.95
131 25 00	1103 568.98	1118 777.38	1133 985.87	1149 194.43	1164 403.07
131 27 30	1103 285.07	1118 493.78	1133 702.58	1148 911.46	1164 120.41
131 30 00	1103 006.39	1118 215.41	1133 424.52	1148 633.70	1163 842.96
131 32 30	1102 732.93	1117 942.26	1133 151.68	1148 361.17	1163 570.73
131 35 00	1102 464.70	1117 674.34	1132 884.06	1148 093.85	1163 303.71
131 37 30	1102 201.71	1117 411.65	1132 621.67	1147 831.75	1163 041.90
131 40 00	1101 943.95	1117 154.19	1132 364.50	1147 574.88	1162 785.32
131 42 30	1101 691.42	1116 901.95	1132 112.56	1147 323.22	1162 533.95
131 45 00	1101 444.13	1116 654.95	1131 865.84	1147 076.79	1162 287.81
131 47 30	1101 202.07	1116 413.17	1131 624.35	1146 835.59	1162 046.88
131 50 00	1100 965.25	1116 176.63	1131 388.09	1146 599.61	1161 811.17
131 52 30	1100 733.65	1115 945.32	1131 157.06	1146 368.85	1161 580.69
131 55 00	1100 507.30	1115 719.24	1130 931.26	1146 143.31	1161 355.43
131 57 30	1100 286.18	1115 498.40	1130 710.68	1145 923.01	1161 135.38
132 00 00	1100 070.30	1115 282.79	1130 495.34	1145 707.93	1160 920.57

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.42	-.47	-.51	-.55	-.58	-.60	-.62	-.64	-.65	-.65

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	54 50 00	54 52 30	54 55 00	54 57 30	55 00 00
132 00 00	3037 095.16	3036 725.77	3036 356.46	3035 987.22	3035 618.05
132 02 30	3028 313.56	3027 953.25	3027 593.02	3027 232.86	3026 872.77
132 05 00	3019 531.81	3019 180.57	3018 829.42	3018 478.35	3018 127.36
132 07 30	3010 749.90	3010 407.75	3010 065.69	3009 723.71	3009 381.81
132 10 00	3001 967.85	3001 634.78	3001 301.80	3000 968.91	3000 636.10
132 12 30	2993 185.65	2992 861.67	2992 537.77	2992 213.97	2991 890.26
132 15 00	2984 403.31	2984 088.41	2983 773.61	2983 458.90	2983 144.28
132 17 30	2975 620.82	2975 315.01	2975 009.30	2974 703.68	2974 398.16
132 20 00	2966 838.19	2966 541.48	2966 244.85	2965 948.33	2965 651.91
132 22 30	2958 055.44	2957 767.81	2957 480.28	2957 192.86	2956 905.53
132 25 00	2949 272.53	2948 993.99	2948 715.56	2948 437.24	2948 159.02
132 27 30	2940 489.50	2940 220.05	2939 950.72	2939 681.49	2939 412.37
132 30 00	2931 706.34	2931 445.99	2931 185.76	2930 925.63	2930 665.61
132 32 30	2922 923.05	2922 671.79	2922 420.65	2922 169.63	2921 918.71
132 35 00	2914 139.63	2913 897.47	2913 655.43	2913 413.51	2913 171.70
132 37 30	2905 356.09	2905 123.03	2904 890.09	2904 657.27	2904 424.57
132 40 00	2896 572.42	2896 348.46	2896 124.63	2895 900.91	2895 677.32
132 42 30	2887 788.63	2887 573.78	2887 359.05	2887 144.44	2886 929.96
132 45 00	2879 004.73	2878 798.97	2878 593.35	2878 387.86	2878 182.49
132 47 30	2870 220.70	2870 024.05	2869 827.54	2869 631.15	2869 434.90
132 50 00	2861 436.57	2861 249.02	2861 061.61	2860 874.35	2860 687.20
132 52 30	2852 652.32	2852 473.88	2852 295.59	2852 117.43	2851 939.41
132 55 00	2843 867.96	2843 698.63	2843 529.45	2843 360.40	2843 191.50
132 57 30	2835 083.50	2834 923.28	2834 763.21	2834 603.28	2834 443.49
133 00 00	2826 298.92	2826 147.82	2825 996.86	2825 846.05	2825 695.39
133 02 30	2817 514.24	2817 372.25	2817 230.41	2817 088.72	2816 947.18
133 05 00	2808 729.47	2808 596.59	2808 463.87	2808 331.30	2808 198.88
133 07 30	2799 944.59	2799 820.83	2799 697.23	2799 573.78	2799 450.49
133 10 00	2791 159.61	2791 044.97	2790 930.49	2790 816.17	2790 702.00
133 12 30	2782 374.55	2782 269.03	2782 163.67	2782 058.47	2781 953.43
133 15 00	2773 589.38	2773 492.98	2773 396.75	2773 300.68	2773 204.77
133 17 30	2764 804.14	2764 716.86	2764 629.74	2764 542.80	2764 456.02
133 20 00	2756 018.80	2755 940.64	2755 862.65	2755 784.84	2755 707.20
133 22 30	2747 233.37	2747 164.34	2747 095.48	2747 026.80	2746 958.29
133 25 00	2738 447.86	2738 387.95	2738 328.22	2738 268.67	2738 209.30
133 27 30	2729 662.27	2729 611.49	2729 560.89	2729 510.48	2729 460.24
133 30 00	2720 876.59	2720 834.95	2720 793.48	2720 752.21	2720 711.10
133 32 30	2712 090.84	2712 058.33	2712 026.00	2711 993.85	2711 961.90
133 35 00	2703 305.02	2703 281.64	2703 258.45	2703 235.44	2703 212.63
133 37 30	2694 519.12	2694 504.87	2694 490.82	2694 476.96	2694 463.28
133 40 00	2685 733.15	2685 728.04	2685 723.12	2685 718.40	2685 713.87
133 42 30	2676 947.12	2676 951.15	2676 955.36	2676 959.79	2676 964.40
133 45 00	2668 161.01	2668 174.17	2668 187.54	2668 201.10	2668 214.87
133 47 30	2659 374.84	2659 397.15	2659 419.66	2659 442.37	2659 465.27
133 50 00	2650 588.62	2650 620.06	2650 651.72	2650 683.57	2650 715.63
133 52 30	2641 802.33	2641 842.92	2641 883.71	2641 924.72	2641 965.93
133 55 00	2633 015.98	2633 065.71	2633 115.66	2633 165.82	2633 216.18
133 57 30	2624 229.58	2624 288.47	2624 347.56	2624 406.87	2624 466.38
134 00 00	2615 443.13	2615 511.15	2615 579.40	2615 647.86	2615 716.53
134 02 30	2606 656.62	2606 733.80	2606 811.19	2606 888.81	2606 966.63
134 05 00	2597 870.07	2597 956.39	2598 042.94	2598 129.72	2598 216.71
134 07 30	2589 083.46	2589 178.94	2589 274.65	2589 370.58	2589 466.73
134 10 00	2580 296.82	2580 401.45	2580 506.31	2580 611.40	2580 716.71
134 12 30	2571 510.13	2571 623.92	2571 737.94	2571 852.20	2571 966.67
134 15 00	2562 723.40	2562 846.35	2562 969.53	2563 092.94	2563 216.58
134 17 30	2553 936.64	2554 068.74	2554 201.08	2554 333.66	2554 466.47
134 20 00	2545 149.85	2545 291.11	2545 432.61	2545 574.35	2545 716.33
134 22 30	2536 363.01	2536 513.43	2536 664.10	2536 815.01	2536 966.15
134 25 00	2527 576.14	2527 735.73	2527 895.56	2528 055.64	2528 215.95
134 27 30	2518 789.26	2518 958.01	2519 127.01	2519 296.25	2519 465.74
134 30 00	2510 002.34	2510 180.25	2510 358.42	2510 536.84	2510 715.50

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	54 50 00	54 52 30	54 55 00	54 57 30	55 00 00
132 00 00	1100 070.30	1115 282.79	1130 495.34	1145 707.93	1160 920.57
132 02 30	1099 859.67	1115 072.42	1130 285.23	1145 498.08	1160 710.98
132 05 00	1099 654.27	1114 867.29	1130 080.35	1145 293.46	1160 506.62
132 07 30	1099 454.12	1114 667.39	1129 880.71	1145 094.07	1160 307.48
132 10 00	1099 259.21	1114 472.73	1129 686.30	1144 899.91	1160 113.57
132 12 30	1099 069.53	1114 283.31	1129 497.13	1144 710.99	1159 924.88
132 15 00	1098 885.11	1114 099.13	1129 313.19	1144 527.30	1159 741.43
132 17 30	1098 705.92	1113 920.19	1129 134.49	1144 348.83	1159 563.21
132 20 00	1098 531.99	1113 746.49	1128 961.04	1144 175.61	1159 390.21
132 22 30	1098 363.30	1113 578.03	1128 792.81	1144 007.62	1159 222.45
132 25 00	1098 199.85	1113 414.82	1128 629.83	1143 844.86	1159 059.92
132 27 30	1098 041.65	1113 256.85	1128 472.08	1143 687.34	1158 902.62
132 30 00	1097 888.70	1113 104.13	1128 319.58	1143 535.06	1158 750.55
132 32 30	1097 741.00	1112 956.65	1128 172.32	1143 388.01	1158 603.73
132 35 00	1097 598.55	1112 814.42	1128 030.30	1143 246.21	1158 462.13
132 37 30	1097 461.36	1112 677.43	1127 893.53	1143 109.65	1158 325.77
132 40 00	1097 329.41	1112 545.70	1127 762.00	1142 978.32	1158 194.66
132 42 30	1097 202.72	1112 419.21	1127 635.72	1142 852.24	1158 068.77
132 45 00	1097 081.27	1112 297.97	1127 514.68	1142 731.40	1157 948.13
132 47 30	1096 965.09	1112 181.98	1127 398.89	1142 615.81	1157 832.72
132 50 00	1096 854.16	1112 071.25	1127 288.35	1142 505.45	1157 722.56
132 52 30	1096 748.49	1111 965.77	1127 183.06	1142 400.35	1157 617.64
132 55 00	1096 648.07	1111 865.54	1127 083.01	1142 300.48	1157 517.95
132 57 30	1096 552.91	1111 770.56	1126 988.22	1142 205.87	1157 423.52
133 00 00	1096 463.01	1111 680.84	1126 898.67	1142 116.50	1157 334.32
133 02 30	1096 378.37	1111 596.38	1126 814.38	1142 032.38	1157 250.37
133 05 00	1096 298.99	1111 517.17	1126 735.34	1141 953.51	1157 171.67
133 07 30	1096 224.87	1111 443.22	1126 661.57	1141 879.89	1157 098.21
133 10 00	1096 156.02	1111 374.53	1126 593.04	1141 811.52	1157 030.00
133 12 30	1096 092.42	1111 311.09	1126 529.76	1141 748.41	1156 967.04
133 15 00	1096 034.09	1111 252.93	1126 471.74	1141 690.54	1156 909.32
133 17 30	1095 981.02	1111 200.01	1126 418.98	1141 637.93	1156 856.85
133 20 00	1095 933.22	1111 152.36	1126 371.48	1141 590.57	1156 809.64
133 22 30	1095 890.69	1111 109.98	1126 329.24	1141 548.47	1156 767.68
133 25 00	1095 853.43	1111 072.85	1126 292.25	1141 511.63	1156 730.97
133 27 30	1095 821.42	1111 040.99	1126 260.53	1141 480.03	1156 699.51
133 30 00	1095 794.69	1111 014.39	1126 234.07	1141 453.70	1156 673.30
133 32 30	1095 773.23	1110 993.06	1126 212.86	1141 432.63	1156 652.35
133 35 00	1095 757.05	1110 977.00	1126 196.93	1141 416.81	1156 636.65
133 37 30	1095 746.13	1110 966.21	1126 186.25	1141 406.26	1156 626.22
133 40 00	1095 740.49	1110 960.68	1126 180.84	1141 400.96	1156 621.04
133 42 30	1095 740.11	1110 960.43	1126 180.70	1141 400.93	1156 621.11
133 45 00	1095 745.02	1110 965.45	1126 185.83	1141 406.16	1156 626.45
133 47 30	1095 755.19	1110 975.72	1126 196.22	1141 416.65	1156 637.04
133 50 00	1095 770.64	1110 991.28	1126 211.87	1141 432.41	1156 652.90
133 52 30	1095 791.37	1111 012.11	1126 232.80	1141 453.43	1156 674.01
133 55 00	1095 817.38	1111 038.22	1126 259.00	1141 479.72	1156 700.39
133 57 30	1095 848.67	1111 069.60	1126 290.47	1141 511.28	1156 732.03
134 00 00	1095 885.23	1111 106.25	1126 327.21	1141 548.10	1156 768.94
134 02 30	1095 927.08	1111 148.18	1126 369.22	1141 590.19	1156 811.11
134 05 00	1095 974.21	1111 195.39	1126 416.51	1141 637.56	1156 858.54
134 07 30	1096 026.62	1111 247.87	1126 469.07	1141 690.19	1156 911.25
134 10 00	1096 084.30	1111 305.64	1126 526.90	1141 748.10	1156 969.21
134 12 30	1096 147.28	1111 368.68	1126 590.01	1141 811.27	1157 032.45
134 15 00	1096 215.53	1111 437.00	1126 658.41	1141 879.72	1157 100.96
134 17 30	1096 289.08	1111 510.61	1126 732.07	1141 953.44	1157 174.73
134 20 00	1096 367.92	1111 589.50	1126 811.01	1142 032.44	1157 253.78
134 22 30	1096 452.03	1111 673.67	1126 895.23	1142 116.71	1157 338.10
134 25 00	1096 541.44	1111 763.13	1126 984.74	1142 206.26	1157 427.69
134 27 30	1096 636.13	1111 857.87	1127 079.52	1142 301.08	1157 522.55
134 30 00	1096 736.12	1111 957.90	1127 179.59	1142 401.19	1157 622.69

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.24	-.31	-.37	-.42	-.47	-.52	-.56	-.59	-.61	-.63	-.65	-.66	-.66

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	55 00 00	55 02 30	55 05 00	55 07 30	55 10 00
129 30 00	3559 987.37	3559 075.32	3558 163.13	3557 250.80	3556 338.33
129 32 30	3551 254.67	3550 351.63	3549 448.46	3548 545.14	3547 641.69
129 35 00	3542 521.69	3541 627.66	3540 733.51	3539 839.21	3538 944.78
129 37 30	3533 788.46	3532 903.44	3532 018.29	3531 133.02	3530 247.61
129 40 00	3525 054.96	3524 178.96	3523 302.83	3522 426.57	3521 550.19
129 42 30	3516 321.19	3515 454.20	3514 587.10	3513 719.87	3512 852.50
129 45 00	3507 587.16	3506 729.19	3505 871.10	3505 012.89	3504 154.56
129 47 30	3498 852.88	3498 003.93	3497 154.86	3496 305.67	3495 456.37
129 50 00	3490 118.34	3489 278.40	3488 438.36	3487 598.20	3486 757.92
129 52 30	3481 383.55	3480 552.63	3479 721.60	3478 890.47	3478 059.23
129 55 00	3472 648.50	3471 826.60	3471 004.60	3470 182.50	3469 360.29
129 57 30	3463 913.20	3463 100.32	3462 287.35	3461 474.27	3460 661.10
130 00 00	3455 177.65	3454 373.80	3453 569.85	3452 765.81	3451 961.66
130 02 30	3446 441.85	3445 647.03	3444 852.11	3444 057.10	3443 261.99
130 05 00	3437 705.81	3436 920.02	3436 134.13	3435 348.15	3434 562.08
130 07 30	3428 969.53	3428 192.76	3427 415.90	3426 638.96	3425 861.92
130 10 00	3420 233.01	3419 465.27	3418 697.44	3417 929.54	3417 161.54
130 12 30	3411 496.24	3410 737.54	3409 978.74	3409 219.87	3408 460.92
130 15 00	3402 759.24	3402 009.57	3401 259.81	3400 509.98	3399 760.07
130 17 30	3394 022.01	3393 281.37	3392 540.65	3391 799.86	3391 058.99
130 20 00	3385 284.54	3384 552.93	3383 821.25	3383 089.50	3382 357.68
130 22 30	3376 546.84	3375 824.27	3375 101.63	3374 378.92	3373 656.14
130 25 00	3367 808.91	3367 095.38	3366 381.78	3365 668.12	3364 954.39
130 27 30	3359 070.76	3358 366.26	3357 661.70	3356 957.09	3356 252.40
130 30 00	3350 332.38	3349 636.92	3348 941.41	3348 245.84	3347 550.21
130 32 30	3341 593.78	3340 907.36	3340 220.89	3339 534.37	3338 847.79
130 35 00	3332 854.95	3332 177.58	3331 500.16	3330 822.68	3330 145.16
130 37 30	3324 115.91	3323 447.58	3322 779.20	3322 110.78	3321 442.31
130 40 00	3315 376.65	3314 717.37	3314 058.04	3313 398.67	3312 739.25
130 42 30	3306 637.17	3305 986.94	3305 336.66	3304 686.35	3304 035.99
130 45 00	3297 897.49	3297 256.30	3296 615.08	3295 973.81	3295 332.51
130 47 30	3289 157.59	3288 525.45	3287 893.28	3287 261.07	3286 628.83
130 50 00	3280 417.49	3279 794.40	3279 171.28	3278 548.13	3277 924.95
130 52 30	3271 677.17	3271 063.14	3270 449.07	3269 834.99	3269 220.86
130 55 00	3262 936.66	3262 331.67	3261 726.67	3261 121.64	3260 516.58
130 57 30	3254 195.93	3253 600.01	3253 004.06	3252 408.09	3251 812.10
131 00 00	3245 455.01	3244 868.14	3244 281.25	3243 694.35	3243 107.42
131 02 30	3236 713.89	3236 136.08	3235 558.25	3234 980.41	3234 402.55
131 05 00	3227 972.58	3227 403.82	3226 835.06	3226 266.28	3225 697.49
131 07 30	3219 231.07	3218 671.37	3218 111.68	3217 551.97	3216 992.25
131 10 00	3210 489.36	3209 938.73	3209 388.10	3208 837.46	3208 286.81
131 12 30	3201 747.46	3201 205.89	3200 664.32	3200 122.76	3199 581.18
131 15 00	3193 005.39	3192 472.89	3191 940.38	3191 407.88	3190 875.38
131 17 30	3184 263.12	3183 739.68	3183 216.25	3182 692.82	3182 169.39
131 20 00	3175 520.66	3175 006.29	3174 491.93	3173 977.58	3173 463.23
131 22 30	3166 778.03	3166 272.73	3165 767.44	3165 262.16	3164 756.89
131 25 00	3158 035.21	3157 538.98	3157 042.77	3156 546.57	3156 050.37
131 27 30	3149 292.22	3148 805.06	3148 317.92	3147 830.80	3147 343.68
131 30 00	3140 549.05	3140 070.96	3139 592.90	3139 114.86	3138 636.83
131 32 30	3131 805.71	3131 336.70	3130 867.71	3130 398.75	3129 929.80
131 35 00	3123 062.19	3122 602.26	3122 142.35	3121 682.46	3121 222.60
131 37 30	3114 318.51	3113 867.65	3113 416.82	3112 966.02	3112 515.25
131 40 00	3105 574.65	3105 132.87	3104 691.12	3104 249.41	3103 807.73
131 42 30	3096 830.63	3096 397.93	3095 965.27	3095 532.64	3095 100.04
131 45 00	3088 086.46	3087 662.83	3087 239.26	3086 815.71	3086 392.21
131 47 30	3079 342.11	3078 927.57	3078 513.08	3078 098.63	3077 684.21
131 50 00	3070 597.61	3070 192.15	3069 786.74	3069 381.38	3068 976.06
131 52 30	3061 852.95	3061 456.58	3061 060.27	3060 663.99	3060 267.77
131 55 00	3053 108.13	3052 720.85	3052 333.62	3051 946.45	3051 559.32
131 57 30	3044 363.16	3043 984.97	3043 606.83	3043 228.75	3042 850.72
132 00 00	3035 618.05	3035 248.94	3034 879.90	3034 510.91	3034 141.98

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.02	+.03	+.03	+.03

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	55 00 00	55 02 30	55 05 00	55 07 30	55 10 00
129 30 00	1183 028.69	1198 219.48	1213 410.46	1228 601.63	1243 792.97
129 32 30	1182 507.01	1197 698.27	1212 889.72	1228 081.35	1243 273.16
129 35 00	1181 990.52	1197 182.24	1212 374.15	1227 566.24	1242 758.51
129 37 30	1181 479.20	1196 671.38	1211 863.75	1227 056.30	1242 249.02
129 40 00	1180 973.06	1196 165.70	1211 358.53	1226 551.53	1241 744.70
129 42 30	1180 472.10	1195 665.20	1210 858.48	1226 051.93	1241 245.56
129 45 00	1179 976.32	1195 169.87	1210 363.60	1225 557.51	1240 751.57
129 47 30	1179 485.73	1194 679.73	1209 873.90	1225 068.25	1240 262.76
129 50 00	1179 000.32	1194 194.76	1209 389.38	1224 584.17	1239 779.11
129 52 30	1178 520.10	1193 714.97	1208 910.03	1224 105.26	1239 300.64
129 55 00	1178 045.06	1193 240.38	1208 435.87	1223 631.52	1238 827.34
129 57 30	1177 575.20	1192 770.95	1207 966.88	1223 162.96	1238 359.21
130 00 00	1177 110.53	1192 306.71	1207 503.07	1222 699.58	1237 896.24
130 02 30	1176 651.05	1191 847.66	1207 044.43	1222 241.37	1237 438.46
130 05 00	1176 196.75	1191 393.78	1206 590.99	1221 788.34	1236 985.84
130 07 30	1175 747.65	1190 945.10	1206 142.72	1221 340.49	1236 538.41
130 10 00	1175 303.73	1190 501.60	1205 699.63	1220 897.81	1236 096.14
130 12 30	1174 865.00	1190 063.29	1205 261.73	1220 460.32	1235 659.06
130 15 00	1174 431.47	1189 630.16	1204 829.01	1220 028.01	1235 227.15
130 17 30	1174 003.12	1189 202.22	1204 401.47	1219 600.87	1234 800.42
130 20 00	1173 579.97	1188 779.47	1203 979.12	1219 178.93	1234 378.86
130 22 30	1173 162.01	1188 361.91	1203 561.96	1218 762.16	1233 962.49
130 25 00	1172 749.25	1187 949.54	1203 149.99	1218 350.57	1233 551.30
130 27 30	1172 341.68	1187 542.36	1202 743.20	1217 944.17	1233 145.28
130 30 00	1171 939.30	1187 140.38	1202 341.60	1217 542.95	1232 744.45
130 32 30	1171 542.13	1186 743.58	1201 945.19	1217 146.93	1232 348.80
130 35 00	1171 150.14	1186 351.98	1201 553.96	1216 756.08	1231 958.33
130 37 30	1170 763.35	1185 965.57	1201 167.94	1216 370.43	1231 573.05
130 40 00	1170 381.77	1185 584.36	1200 787.10	1215 989.96	1231 192.95
130 42 30	1170 005.39	1185 208.34	1200 411.45	1215 614.68	1230 818.03
130 45 00	1169 634.20	1184 837.53	1200 041.00	1215 244.59	1230 448.30
130 47 30	1169 268.21	1184 471.91	1199 675.74	1214 879.69	1230 083.77
130 50 00	1168 907.43	1184 111.48	1199 315.68	1214 519.98	1229 724.41
130 52 30	1168 551.85	1183 756.26	1198 960.81	1214 165.47	1229 370.24
130 55 00	1168 201.47	1183 406.23	1198 611.13	1213 816.14	1229 021.27
130 57 30	1167 856.30	1183 061.41	1198 266.65	1213 472.02	1228 677.48
131 00 00	1167 516.33	1182 721.78	1197 927.38	1213 133.08	1228 338.89
131 02 30	1167 181.57	1182 387.37	1197 593.29	1212 799.34	1228 005.48
131 05 00	1166 852.01	1182 058.15	1197 264.42	1212 470.79	1227 677.27
131 07 30	1166 527.66	1181 734.13	1196 940.74	1212 147.44	1227 354.25
131 10 00	1166 208.51	1181 415.32	1196 622.25	1211 829.29	1227 036.42
131 12 30	1165 894.58	1181 101.72	1196 308.98	1211 516.33	1226 723.79
131 15 00	1165 585.86	1180 793.32	1196 000.90	1211 208.58	1226 416.36
131 17 30	1165 282.34	1180 490.13	1195 698.03	1210 906.02	1226 114.12
131 20 00	1164 984.04	1180 192.14	1195 400.36	1210 608.67	1225 817.07
131 22 30	1164 690.95	1179 899.37	1195 107.90	1210 316.51	1225 525.22
131 25 00	1164 403.07	1179 611.80	1194 820.63	1210 029.56	1225 238.58
131 27 30	1164 120.41	1179 329.44	1194 538.58	1209 747.81	1224 957.13
131 30 00	1163 842.96	1179 052.29	1194 261.73	1209 471.26	1224 680.88
131 32 30	1163 570.73	1178 780.36	1193 990.10	1209 199.92	1224 409.83
131 35 00	1163 303.71	1178 513.63	1193 723.67	1208 933.79	1224 143.98
131 37 30	1163 041.90	1178 252.13	1193 462.45	1208 672.85	1223 883.34
131 40 00	1162 785.32	1177 995.83	1193 206.44	1208 417.13	1223 627.89
131 42 30	1162 533.95	1177 744.75	1192 955.65	1208 166.62	1223 377.66
131 45 00	1162 287.81	1177 498.89	1192 710.06	1207 921.31	1223 132.63
131 47 30	1162 046.88	1177 258.24	1192 469.69	1207 681.20	1222 892.80
131 50 00	1161 811.17	1177 022.81	1192 234.53	1207 446.32	1222 658.18
131 52 30	1161 580.69	1176 792.59	1192 004.58	1207 216.64	1222 428.77
131 55 00	1161 355.43	1176 567.60	1191 779.85	1206 992.17	1222 204.55
131 57 30	1161 135.38	1176 347.82	1191 560.33	1206 772.91	1221 985.55
132 00 00	1160 920.57	1176 133.26	1191 346.04	1206 558.87	1221 771.76

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.42	-.47	-.51	-.55	-.58	-.60	-.62	-.64	-.65	-.65

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	55 00 00	55 02 30	55 05 00	55 07 30	55 10 00
132 00 00	3035 618.05	3035 248.94	3034 879.90	3034 510.91	3034 141.98
132 02 30	3026 872.77	3026 512.76	3026 152.81	3025 792.92	3025 433.09
132 05 00	3018 127.36	3017 776.44	3017 425.59	3017 074.80	3016 724.07
132 07 30	3009 381.81	3009 039.98	3008 698.22	3008 356.53	3008 014.91
132 10 00	3000 636.10	3000 303.37	2999 970.71	2999 638.12	2999 305.60
132 12 30	2991 890.26	2991 566.62	2991 243.06	2990 919.58	2990 596.16
132 15 00	2983 144.28	2982 829.74	2982 515.28	2982 200.91	2981 886.60
132 17 30	2974 398.16	2974 092.72	2973 787.37	2973 482.09	2973 176.89
132 20 00	2965 651.91	2965 355.57	2965 059.32	2964 763.15	2964 467.06
132 22 30	2956 905.53	2956 618.29	2956 331.14	2956 044.08	2955 757.11
132 25 00	2948 159.02	2947 880.88	2947 602.84	2947 324.89	2947 047.03
132 27 30	2939 412.37	2939 143.34	2938 874.41	2938 605.57	2938 336.82
132 30 00	2930 665.61	2930 405.69	2930 145.87	2929 886.14	2929 626.51
132 32 30	2921 918.71	2921 667.90	2921 417.19	2921 166.58	2920 916.06
132 35 00	2913 171.70	2912 930.00	2912 688.40	2912 446.90	2912 205.50
132 37 30	2904 424.57	2904 191.98	2903 959.50	2903 727.12	2903 494.84
132 40 00	2895 677.32	2895 453.84	2895 230.48	2895 007.22	2894 784.06
132 42 30	2886 929.96	2886 715.59	2886 501.34	2886 287.20	2886 073.17
132 45 00	2878 182.49	2877 977.24	2877 772.10	2877 567.08	2877 362.18
132 47 30	2869 434.90	2869 238.76	2869 042.75	2868 846.86	2868 651.07
132 50 00	2860 687.20	2860 500.19	2860 313.30	2860 126.52	2859 939.86
132 52 30	2851 939.41	2851 761.51	2851 583.74	2851 406.09	2851 228.56
132 55 00	2843 191.50	2843 022.73	2842 854.08	2842 685.56	2842 517.16
132 57 30	2834 443.49	2834 283.85	2834 124.33	2833 964.93	2833 805.66
133 00 00	2825 695.39	2825 544.86	2825 394.47	2825 244.20	2825 094.07
133 02 30	2816 947.18	2816 805.78	2816 664.51	2816 523.38	2816 382.38
133 05 00	2808 198.88	2808 066.61	2807 934.47	2807 802.47	2807 670.61
133 07 30	2799 450.49	2799 327.34	2799 204.33	2799 081.48	2798 958.74
133 10 00	2790 702.00	2790 587.98	2790 474.11	2790 360.38	2790 246.79
133 12 30	2781 953.43	2781 848.54	2781 743.81	2781 639.21	2781 534.77
133 15 00	2773 204.77	2773 109.01	2773 013.41	2772 917.96	2772 822.65
133 17 30	2764 456.02	2764 369.40	2764 282.94	2764 196.62	2764 110.46
133 20 00	2755 707.20	2755 629.72	2755 552.39	2755 475.21	2755 398.19
133 22 30	2746 958.29	2746 889.94	2746 821.76	2746 753.73	2746 685.85
133 25 00	2738 209.30	2738 150.09	2738 091.05	2738 032.16	2737 973.43
133 27 30	2729 460.24	2729 410.17	2729 360.27	2729 310.53	2729 260.95
133 30 00	2720 711.10	2720 670.18	2720 629.41	2720 588.82	2720 548.39
133 32 30	2711 961.90	2711 930.11	2711 898.50	2711 867.05	2711 835.77
133 35 00	2703 212.63	2703 189.98	2703 167.51	2703 145.22	2703 123.09
133 37 30	2694 463.28	2694 449.78	2694 436.46	2694 423.32	2694 410.35
133 40 00	2685 713.87	2685 709.52	2685 705.35	2685 701.36	2685 697.54
133 42 30	2676 964.40	2676 969.20	2676 974.18	2676 979.35	2676 984.68
133 45 00	2668 214.87	2668 228.81	2668 242.95	2668 257.27	2668 271.77
133 47 30	2659 465.27	2659 488.38	2659 511.67	2659 535.14	2659 558.80
133 50 00	2650 715.63	2650 747.88	2650 780.33	2650 812.97	2650 845.78
133 52 30	2641 965.93	2642 007.34	2642 048.94	2642 090.74	2642 132.72
133 55 00	2633 216.18	2633 266.74	2633 317.50	2633 368.46	2633 419.61
133 57 30	2624 466.38	2624 526.11	2624 586.03	2624 646.15	2624 706.46
134 00 00	2615 716.53	2615 785.41	2615 854.50	2615 923.78	2615 993.26
134 02 30	2606 966.63	2607 044.68	2607 122.93	2607 201.37	2607 280.02
134 05 00	2598 216.71	2598 303.91	2598 391.33	2598 478.94	2598 566.75
134 07 30	2589 466.73	2589 563.10	2589 659.67	2589 756.46	2589 853.45
134 10 00	2580 716.71	2580 822.24	2580 927.99	2581 033.94	2581 140.11
134 12 30	2571 966.67	2572 081.37	2572 196.28	2572 311.41	2572 426.74
134 15 00	2563 216.58	2563 340.45	2563 464.53	2563 588.84	2563 713.35
134 17 30	2554 466.47	2554 599.50	2554 732.75	2554 866.23	2554 999.93
134 20 00	2545 716.33	2545 858.53	2546 000.96	2546 143.61	2546 286.48
134 22 30	2536 966.15	2537 117.53	2537 269.13	2537 420.96	2537 573.01
134 25 00	2528 215.95	2528 376.50	2528 537.29	2528 698.29	2528 859.53
134 27 30	2519 465.74	2519 635.46	2519 805.42	2519 975.61	2520 146.03
134 30 00	2510 715.50	2510 894.40	2511 073.54	2511 252.91	2511 432.51

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	55 00 00	55 02 30	55 05 00	55 07 30	55 10 00
132 00 00	1160 920.57	1176 133.26	1191 346.04	1206 558.87	1221 771.76
132 02 30	1160 710.98	1175 923.93	1191 136.95	1206 350.04	1221 563.18
132 05 00	1160 506.62	1175 719.82	1190 933.09	1206 146.43	1221 359.81
132 07 30	1160 307.48	1175 520.93	1190 734.45	1205 948.03	1221 161.66
132 10 00	1160 113.57	1175 327.27	1190 541.02	1205 754.85	1220 968.71
132 12 30	1159 924.88	1175 138.82	1190 352.82	1205 566.88	1220 780.98
132 15 00	1159 741.43	1174 955.60	1190 169.84	1205 384.13	1220 598.47
132 17 30	1159 563.21	1174 777.61	1189 992.09	1205 206.61	1220 421.17
132 20 00	1159 390.21	1174 604.85	1189 819.55	1205 034.29	1220 249.09
132 22 30	1159 222.45	1174 437.31	1189 652.24	1204 867.21	1220 082.21
132 25 00	1159 059.92	1174 275.01	1189 490.15	1204 705.34	1219 920.56
132 27 30	1158 902.62	1174 117.92	1189 333.28	1204 548.69	1219 764.13
132 30 00	1158 750.55	1173 966.08	1189 181.66	1204 397.27	1219 612.91
132 32 30	1158 603.73	1173 819.46	1189 035.24	1204 251.07	1219 466.91
132 35 00	1158 462.13	1173 678.08	1188 894.07	1204 110.09	1219 326.14
132 37 30	1158 325.77	1173 541.92	1188 758.11	1203 974.34	1219 190.59
132 40 00	1158 194.66	1173 411.00	1188 627.39	1203 843.81	1219 060.25
132 42 30	1158 068.77	1173 285.32	1188 501.90	1203 718.51	1218 935.15
132 45 00	1157 948.13	1173 164.86	1188 381.64	1203 598.44	1218 815.26
132 47 30	1157 832.72	1173 049.65	1188 266.61	1203 483.60	1218 700.60
132 50 00	1157 722.56	1172 939.67	1188 156.82	1203 373.98	1218 591.17
132 52 30	1157 617.64	1172 834.93	1188 052.26	1203 269.60	1218 486.96
132 55 00	1157 517.95	1172 735.43	1187 952.93	1203 170.45	1218 387.97
132 57 30	1157 423.52	1172 641.17	1187 858.84	1203 076.53	1218 294.22
133 00 00	1157 334.32	1172 552.14	1187 769.98	1202 987.83	1218 205.69
133 02 30	1157 250.37	1172 468.36	1187 686.36	1202 904.38	1218 122.39
133 05 00	1157 171.67	1172 389.81	1187 607.98	1202 826.16	1218 044.33
133 07 30	1157 098.21	1172 316.52	1187 534.85	1202 753.17	1217 971.50
133 10 00	1157 030.00	1172 248.46	1187 466.94	1202 685.42	1217 903.89
133 12 30	1156 967.04	1172 185.65	1187 404.28	1202 622.90	1217 841.52
133 15 00	1156 909.32	1172 128.08	1187 346.85	1202 565.63	1217 784.38
133 17 30	1156 856.85	1172 075.76	1187 294.68	1202 513.59	1217 732.48
133 20 00	1156 809.64	1172 028.69	1187 247.74	1202 466.78	1217 685.81
133 22 30	1156 767.68	1171 986.86	1187 206.05	1202 425.22	1217 644.38
133 25 00	1156 730.97	1171 950.28	1187 169.60	1202 388.90	1217 608.19
133 27 30	1156 699.51	1171 918.95	1187 138.40	1202 357.82	1217 577.23
133 30 00	1156 673.30	1171 892.87	1187 112.44	1202 331.98	1217 551.51
133 32 30	1156 652.35	1171 872.04	1187 091.73	1202 311.39	1217 531.03
133 35 00	1156 636.65	1171 856.46	1187 076.27	1202 296.04	1217 515.79
133 37 30	1156 626.22	1171 846.14	1187 066.05	1202 285.94	1217 505.79
133 40 00	1156 621.04	1171 841.07	1187 061.09	1202 281.08	1217 501.03
133 42 30	1156 621.11	1171 841.25	1187 061.37	1202 281.47	1217 501.52
133 45 00	1156 626.45	1171 846.69	1187 066.91	1202 287.10	1217 507.25
133 47 30	1156 637.04	1171 857.38	1187 077.69	1202 297.98	1217 518.22
133 50 00	1156 652.90	1171 873.33	1187 093.74	1202 314.11	1217 534.44
133 52 30	1156 674.01	1171 894.53	1187 115.03	1202 335.49	1217 555.90
133 55 00	1156 700.39	1171 921.00	1187 141.58	1202 362.13	1217 582.61
133 57 30	1156 732.03	1171 952.72	1187 173.39	1202 394.01	1217 614.57
134 00 00	1156 768.94	1171 989.71	1187 210.45	1202 431.14	1217 651.78
134 02 30	1156 811.11	1172 031.95	1187 252.76	1202 473.53	1217 694.23
134 05 00	1156 858.54	1172 079.46	1187 300.34	1202 521.16	1217 741.94
134 07 30	1156 911.25	1172 132.23	1187 353.17	1202 574.06	1217 794.89
134 10 00	1156 969.21	1172 190.26	1187 411.27	1202 632.21	1217 853.10
134 12 30	1157 032.45	1172 253.55	1187 474.62	1202 695.62	1217 916.56
134 15 00	1157 100.96	1172 322.12	1187 543.24	1202 764.28	1217 985.27
134 17 30	1157 174.73	1172 395.95	1187 617.11	1202 838.21	1218 059.24
134 20 00	1157 253.78	1172 475.04	1187 696.25	1202 917.40	1218 138.46
134 22 30	1157 338.10	1172 559.40	1187 780.65	1203 001.83	1218 222.93
134 25 00	1157 427.69	1172 649.04	1187 870.32	1203 091.54	1218 312.67
134 27 30	1157 522.55	1172 743.93	1187 965.25	1203 186.50	1218 407.66
134 30 00	1157 622.69	1172 844.10	1188 065.45	1203 286.72	1218 507.92

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.24	-.31	-.37	-.42	-.47	-.52	-.56	-.59	-.61	-.63	-.65	-.66	-.66

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	55 10 00	55 12 30	55 15 00	55 17 30	55 20 00
129 30 00	3556 338.33	3555 425.71	3554 512.94	3553 600.01	3552 686.92
129 32 30	3547 641.69	3546 738.09	3545 834.35	3544 930.45	3544 026.39
129 35 00	3538 944.78	3538 050.21	3537 155.49	3536 260.63	3535 365.60
129 37 30	3530 247.61	3529 362.07	3528 476.37	3527 590.54	3526 704.56
129 40 00	3521 550.19	3520 673.67	3519 797.01	3518 920.21	3518 043.27
129 42 30	3512 852.50	3511 985.01	3511 117.39	3510 249.62	3509 381.72
129 45 00	3504 154.56	3503 296.10	3502 437.51	3501 578.78	3500 719.92
129 47 30	3495 456.37	3494 606.94	3493 757.38	3492 907.69	3492 057.87
129 50 00	3486 757.92	3485 917.53	3485 077.01	3484 236.35	3483 395.57
129 52 30	3478 059.23	3477 227.87	3476 396.38	3475 564.77	3474 733.03
129 55 00	3469 360.29	3468 537.96	3467 715.52	3466 892.94	3466 070.26
129 57 30	3460 661.10	3459 847.80	3459 034.40	3458 220.88	3457 407.23
130 00 00	3451 961.66	3451 157.41	3450 353.04	3449 548.57	3448 743.97
130 02 30	3443 261.99	3442 466.78	3441 671.45	3440 876.02	3440 080.47
130 05 00	3434 562.08	3433 775.90	3432 989.62	3432 203.24	3431 416.74
130 07 30	3425 861.92	3425 084.79	3424 307.56	3423 530.22	3422 752.78
130 10 00	3417 161.54	3416 393.45	3415 625.26	3414 856.98	3414 088.59
130 12 30	3408 460.92	3407 701.88	3406 942.73	3406 183.50	3405 424.16
130 15 00	3399 760.07	3399 010.07	3398 259.98	3397 509.79	3396 759.51
130 17 30	3391 058.99	3390 318.04	3389 576.99	3388 835.86	3388 094.64
130 20 00	3382 357.68	3381 625.78	3380 893.79	3380 161.71	3379 429.54
130 22 30	3373 656.14	3372 933.29	3372 210.35	3371 487.33	3370 764.22
130 25 00	3364 954.39	3364 240.58	3363 526.70	3362 812.74	3362 098.69
130 27 30	3356 252.40	3355 547.65	3354 842.82	3354 137.92	3353 432.94
130 30 00	3347 550.21	3346 854.50	3346 158.74	3345 462.89	3344 766.97
130 32 30	3338 847.79	3338 161.15	3337 474.43	3336 787.65	3336 100.79
130 35 00	3330 145.16	3329 467.57	3328 789.91	3328 112.20	3327 434.41
130 37 30	3321 442.31	3320 773.78	3320 105.19	3319 436.53	3318 767.81
130 40 00	3312 739.25	3312 079.78	3311 420.25	3310 760.67	3310 101.01
130 42 30	3304 035.99	3303 385.57	3302 735.11	3302 084.58	3301 434.00
130 45 00	3295 332.51	3294 691.16	3294 049.76	3293 408.30	3292 766.78
130 47 30	3286 628.83	3285 996.54	3285 364.21	3284 731.82	3284 099.38
130 50 00	3277 924.95	3277 301.72	3276 678.46	3276 055.14	3275 431.78
130 52 30	3269 220.86	3268 606.70	3267 992.50	3267 378.26	3266 763.97
130 55 00	3260 516.58	3259 911.49	3259 306.36	3258 701.19	3258 095.97
130 57 30	3251 812.10	3251 216.07	3250 620.01	3250 023.92	3249 427.78
131 00 00	3243 107.42	3242 520.47	3241 933.48	3241 346.46	3240 759.40
131 02 30	3234 402.55	3233 824.67	3233 246.76	3232 668.82	3232 090.84
131 05 00	3225 697.49	3225 128.68	3224 559.84	3223 990.98	3223 422.09
131 07 30	3216 992.25	3216 432.51	3215 872.75	3215 312.96	3214 753.15
131 10 00	3208 286.81	3207 736.14	3207 185.46	3206 634.76	3206 084.03
131 12 30	3199 581.18	3199 039.60	3198 497.99	3197 956.37	3197 414.73
131 15 00	3190 875.38	3190 342.87	3189 810.36	3189 277.82	3188 745.26
131 17 30	3182 169.39	3181 645.97	3181 122.53	3180 599.08	3180 075.61
131 20 00	3173 463.23	3172 948.88	3172 434.52	3171 920.16	3171 405.78
131 22 30	3164 756.89	3164 251.62	3163 746.35	3163 241.08	3162 735.79
131 25 00	3156 050.37	3155 554.19	3155 058.00	3154 561.82	3154 065.62
131 27 30	3147 343.68	3146 856.58	3146 369.48	3145 882.39	3145 395.29
131 30 00	3138 636.83	3138 158.81	3137 680.80	3137 202.80	3136 724.80
131 32 30	3129 929.80	3129 460.87	3128 991.95	3128 523.04	3128 054.14
131 35 00	3121 222.60	3120 762.76	3120 302.93	3119 843.12	3119 383.32
131 37 30	3112 515.25	3112 064.50	3111 613.77	3111 163.05	3110 712.34
131 40 00	3103 807.73	3103 366.06	3102 924.43	3102 482.81	3102 041.20
131 42 30	3095 100.04	3094 667.48	3094 234.93	3093 802.41	3093 369.91
131 45 00	3086 392.21	3085 968.74	3085 545.29	3085 121.87	3084 698.47
131 47 30	3077 684.21	3077 269.84	3076 855.49	3076 441.16	3076 026.87
131 50 00	3068 976.06	3068 570.78	3068 165.53	3067 760.32	3067 355.13
131 52 30	3060 267.77	3059 871.59	3059 475.44	3059 079.33	3058 683.24
131 55 00	3051 559.32	3051 172.23	3050 785.19	3050 398.18	3050 011.20
131 57 30	3042 850.72	3042 472.74	3042 094.80	3041 716.90	3041 339.03
132 00 00	3034 141.98	3033 773.10	3033 404.26	3033 035.47	3032 666.72

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.01	+.02	+.02	+.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	55 10 00	55 12 30	55 15 00	55 17 30	55 20 00
129 30 00	1243 792.97	1258 984.51	1274 176.24	1289 368.16	1304 560.27
129 32 30	1243 273.16	1258 465.16	1273 657.34	1288 849.73	1304 042.29
129 35 00	1242 758.51	1257 950.97	1273 143.60	1288 336.44	1303 529.46
129 37 30	1242 249.02	1257 441.93	1272 635.02	1287 828.32	1303 021.78
129 40 00	1241 744.70	1256 938.06	1272 131.61	1287 325.34	1302 519.25
129 42 30	1241 245.56	1256 439.37	1271 633.35	1286 827.53	1302 021.88
129 45 00	1240 751.57	1255 945.82	1271 140.26	1286 334.87	1301 529.66
129 47 30	1240 262.76	1255 457.45	1270 652.32	1285 847.37	1301 042.60
129 50 00	1239 779.11	1254 974.24	1270 169.55	1285 365.03	1300 560.69
129 52 30	1239 300.64	1254 496.20	1269 691.93	1284 887.85	1300 083.94
129 55 00	1238 827.34	1254 023.33	1269 219.49	1284 415.83	1299 612.34
129 57 30	1238 359.21	1253 555.63	1268 752.21	1283 948.98	1299 145.91
130 00 00	1237 896.24	1253 093.09	1268 290.09	1283 487.28	1298 684.63
130 02 30	1237 438.46	1252 635.72	1267 833.14	1283 030.74	1298 228.51
130 05 00	1236 985.84	1252 183.52	1267 381.36	1282 579.37	1297 777.55
130 07 30	1236 538.41	1251 736.50	1266 934.75	1282 133.17	1297 331.75
130 10 00	1236 096.14	1251 294.64	1266 493.30	1281 692.13	1296 891.11
130 12 30	1235 659.06	1250 857.96	1266 057.03	1281 256.25	1296 455.64
130 15 00	1235 227.15	1250 426.46	1265 625.92	1280 825.54	1296 025.32
130 17 30	1234 800.42	1250 000.12	1265 199.98	1280 400.00	1295 600.17
130 20 00	1234 378.86	1249 578.96	1264 779.21	1279 979.63	1295 180.19
130 22 30	1233 962.49	1249 162.98	1264 363.62	1279 564.42	1294 765.37
130 25 00	1233 551.30	1248 752.18	1263 953.20	1279 154.38	1294 355.72
130 27 30	1233 145.28	1248 346.55	1263 547.96	1278 749.52	1293 951.22
130 30 00	1232 744.45	1247 946.09	1263 147.88	1278 349.82	1293 551.90
130 32 30	1232 348.80	1247 550.82	1262 752.98	1277 955.30	1293 157.76
130 35 00	1231 958.33	1247 160.72	1262 363.26	1277 565.94	1292 768.77
130 37 30	1231 573.05	1246 775.81	1261 978.72	1277 181.77	1292 384.96
130 40 00	1231 192.95	1246 396.08	1261 599.35	1276 802.76	1292 006.31
130 42 30	1230 818.03	1246 021.53	1261 225.16	1276 428.93	1291 632.84
130 45 00	1230 448.30	1245 652.16	1260 856.15	1276 060.28	1291 264.54
130 47 30	1230 083.77	1245 287.97	1260 492.32	1275 696.80	1290 901.41
130 50 00	1229 724.41	1244 928.98	1260 133.67	1275 338.50	1290 543.45
130 52 30	1229 370.24	1244 575.16	1259 780.20	1274 985.37	1290 190.67
130 55 00	1229 021.27	1244 226.53	1259 431.91	1274 637.42	1289 843.07
130 57 30	1228 677.48	1243 883.08	1259 088.80	1274 294.66	1289 500.64
131 00 00	1228 338.89	1243 544.82	1258 750.88	1273 957.07	1209 163.38
131 02 30	1228 005.48	1243 211.76	1258 418.14	1273 624.67	1288 831.30
131 05 00	1227 677.27	1242 883.87	1258 090.59	1273 297.44	1288 504.40
131 07 30	1227 354.25	1242 561.18	1257 768.23	1272 975.40	1288 182.68
131 10 00	1227 036.42	1242 243.67	1257 451.04	1272 658.54	1287 866.13
131 12 30	1226 723.79	1241 931.36	1257 139.05	1272 346.86	1287 554.77
131 15 00	1226 416.36	1241 624.25	1256 832.24	1272 040.36	1287 248.59
131 17 30	1226 114.12	1241 322.32	1256 530.63	1271 739.05	1286 947.59
131 20 00	1225 817.07	1241 025.58	1256 234.20	1271 442.94	1286 651.78
131 22 30	1225 525.22	1240 734.04	1255 942.97	1271 152.00	1286 361.13
131 25 00	1225 238.58	1240 447.70	1255 656.92	1270 866.25	1286 075.69
131 27 30	1224 957.13	1240 166.55	1255 376.07	1270 585.69	1285 795.42
131 30 00	1224 680.88	1239 890.59	1255 100.40	1270 310.33	1285 520.34
131 32 30	1224 409.83	1239 619.84	1254 829.94	1270 040.14	1285 250.44
131 35 00	1224 143.98	1239 354.28	1254 564.67	1269 775.15	1284 985.73
131 37 30	1223 883.34	1239 093.92	1254 304.59	1269 515.35	1284 726.21
131 40 00	1223 627.89	1238 838.75	1254 049.70	1269 260.75	1284 471.88
131 42 30	1223 377.66	1238 588.79	1253 800.02	1269 011.33	1284 222.74
131 45 00	1223 132.63	1238 344.03	1253 555.53	1268 767.12	1283 978.78
131 47 30	1222 892.80	1238 104.47	1253 316.23	1268 528.09	1283 740.02
131 50 00	1222 658.18	1237 870.12	1253 082.14	1268 294.25	1283 506.45
131 52 30	1222 428.77	1237 640.97	1252 853.25	1268 065.62	1283 278.07
131 55 00	1222 204.55	1237 417.02	1252 629.56	1267 842.18	1283 054.88
131 57 30	1221 985.55	1237 198.27	1252 411.06	1267 623.94	1282 836.89
132 00 00	1221 771.76	1236 984.73	1252 197.77	1267 410.90	1282 624.09

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.42	-.47	-.51	-.55	-.58	-.60	-.62	-.64	-.65	-.65

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	55 10 00	55 12 30	55 15 00	55 17 30	55 20 00
132 00 00	3034 141.98	3033 773.10	3033 404.26	3033 035.47	3032 666.72
132 02 30	3025 433.09	3025 073.31	3024 713.59	3024 353.90	3023 994.26
132 05 00	3016 724.07	3016 373.39	3016 022.77	3015 672.20	3015 321.67
132 07 30	3008 014.91	3007 673.34	3007 331.83	3006 990.37	3006 648.95
132 10 00	2999 305.60	2998 973.14	2998 640.74	2998 308.39	2997 976.10
132 12 30	2990 596.16	2990 272.82	2989 949.52	2989 626.29	2989 303.11
132 15 00	2981 886.60	2981 572.35	2981 258.18	2980 944.07	2980 630.01
132 17 30	2973 176.89	2972 871.76	2972 566.71	2972 261.71	2971 956.77
132 20 00	2964 467.06	2964 171.05	2963 875.10	2963 579.22	2963 283.41
132 22 30	2955 757.11	2955 470.21	2955 183.38	2954 896.63	2954 609.94
132 25 00	2947 047.03	2946 769.24	2946 491.53	2946 213.90	2945 936.34
132 27 30	2938 336.82	2938 068.15	2937 799.57	2937 531.06	2937 262.62
132 30 00	2929 626.51	2929 366.96	2929 107.49	2928 848.11	2928 588.80
132 32 30	2920 916.06	2920 665.64	2920 415.29	2920 165.04	2919 914.86
132 35 00	2912 205.50	2911 964.20	2911 722.98	2911 481.85	2911 240.80
132 37 30	2903 494.84	2903 262.66	2903 030.57	2902 798.56	2902 566.65
132 40 00	2894 784.06	2894 561.00	2894 338.04	2894 115.16	2893 892.38
132 42 30	2886 073.17	2885 859.23	2885 645.40	2885 431.66	2885 218.01
132 45 00	2877 362.18	2877 157.37	2876 952.66	2876 748.06	2876 543.54
132 47 30	2868 651.07	2868 455.39	2868 259.82	2868 064.35	2867 868.98
132 50 00	2859 939.86	2859 753.32	2859 566.88	2859 380.54	2859 194.31
132 52 30	2851 228.56	2851 051.15	2850 873.85	2850 696.64	2850 519.55
132 55 00	2842 517.16	2842 348.88	2842 180.71	2842 012.65	2841 844.69
132 57 30	2833 805.66	2833 646.51	2833 487.48	2833 328.57	2833 169.75
133 00 00	2825 094.07	2824 944.05	2824 794.16	2824 644.38	2824 494.72
133 02 30	2816 382.38	2816 241.50	2816 100.75	2815 960.12	2815 819.59
133 05 00	2807 670.61	2807 538.87	2807 407.26	2807 275.77	2807 144.40
133 07 30	2798 958.74	2798 836.14	2798 713.68	2798 591.33	2798 469.11
133 10 00	2790 246.79	2790 133.34	2790 020.01	2789 906.82	2789 793.74
133 12 30	2781 534.77	2781 430.45	2781 326.27	2781 222.22	2781 118.30
133 15 00	2772 822.65	2772 727.48	2772 632.45	2772 537.55	2772 442.78
133 17 30	2764 110.46	2764 024.43	2763 938.55	2763 852.80	2763 767.19
133 20 00	2755 398.19	2755 321.32	2755 244.58	2755 167.99	2755 091.53
133 22 30	2746 685.85	2746 618.12	2746 550.54	2746 483.10	2746 415.79
133 25 00	2737 973.43	2737 914.85	2737 856.42	2737 798.14	2737 740.00
133 27 30	2729 260.95	2729 211.52	2729 162.25	2729 113.12	2729 064.14
133 30 00	2720 548.39	2720 508.12	2720 468.00	2720 428.03	2720 388.21
133 32 30	2711 835.77	2711 804.65	2711 773.69	2711 742.88	2711 712.22
133 35 00	2703 123.09	2703 101.13	2703 079.32	2703 057.68	2703 036.19
133 37 30	2694 410.35	2694 397.54	2694 384.90	2694 372.42	2694 360.09
133 40 00	2685 697.54	2685 693.89	2685 690.42	2685 687.10	2685 683.93
133 42 30	2676 984.68	2676 990.20	2676 995.88	2677 001.73	2677 007.73
133 45 00	2668 271.77	2668 286.44	2668 301.29	2668 316.30	2668 331.48
133 47 30	2659 558.80	2659 582.64	2659 606.65	2659 630.83	2659 655.18
133 50 00	2650 845.78	2650 878.79	2650 911.97	2650 945.32	2650 978.84
133 52 30	2642 132.72	2642 174.89	2642 217.24	2642 259.76	2642 302.45
133 55 00	2633 419.61	2633 470.94	2633 522.46	2633 574.16	2633 626.03
133 57 30	2624 706.46	2624 766.96	2624 827.65	2624 888.52	2624 949.57
134 00 00	2615 993.26	2616 062.93	2616 132.80	2616 202.85	2616 273.07
134 02 30	2607 280.02	2607 358.87	2607 437.90	2607 517.12	2607 596.53
134 05 00	2598 566.75	2598 654.77	2598 742.99	2598 831.39	2598 919.98
134 07 30	2589 853.45	2589 950.64	2590 048.03	2590 145.61	2590 243.38
134 10 00	2581 140.11	2581 246.47	2581 353.04	2581 459.81	2581 566.76
134 12 30	2572 426.74	2572 542.29	2572 658.03	2572 773.98	2572 890.12
134 15 00	2563 713.35	2563 838.07	2563 963.00	2564 088.12	2564 213.45
134 17 30	2554 999.93	2555 133.83	2555 267.94	2555 402.25	2555 536.77
134 20 00	2546 286.48	2546 429.57	2546 572.86	2546 716.37	2546 860.07
134 22 30	2537 573.01	2537 725.28	2537 877.76	2538 030.46	2538 183.35
134 25 00	2528 859.53	2529 020.98	2529 182.65	2529 344.53	2529 506.62
134 27 30	2520 146.03	2520 316.67	2520 487.52	2520 658.60	2520 829.88
134 30 00	2511 432.51	2511 612.34	2511 792.38	2511 972.65	2512 153.13

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	55 10 00	55 12 30	55 15 00	55 17 30	55 20 00
132 00 00	1221 771.76	1236 984.73	1252 197.77	1267 410.90	1282 624.09
132 02 30	1221 563.18	1236 776.41	1251 989.69	1267 203.06	1282 416.49
132 05 00	1221 359.81	1236 573.27	1251 786.81	1267 000.41	1282 214.09
132 07 30	1221 161.66	1236 375.36	1251 589.13	1266 802.97	1282 016.87
132 10 00	1220 968.71	1236 182.65	1251 396.66	1266 610.73	1281 824.86
132 12 30	1220 780.98	1235 995.15	1251 209.39	1266 423.69	1281 638.05
132 15 00	1220 598.47	1235 812.87	1251 027.32	1266 241.85	1281 456.44
132 17 30	1220 421.17	1235 635.79	1250 850.47	1266 065.22	1281 280.03
132 20 00	1220 249.09	1235 463.93	1250 678.83	1265 893.79	1281 108.81
132 22 30	1220 082.21	1235 297.28	1250 512.39	1265 727.57	1280 942.80
132 25 00	1219 920.56	1235 135.83	1250 351.17	1265 566.55	1280 781.99
132 27 30	1219 764.13	1234 979.61	1250 195.15	1265 410.74	1280 626.38
132 30 00	1219 612.91	1234 828.61	1250 044.35	1265 260.14	1280 475.98
132 32 30	1219 466.91	1234 682.81	1249 898.75	1265 114.75	1280 330.78
132 35 00	1219 326.14	1234 542.23	1249 758.37	1264 974.56	1280 190.79
132 37 30	1219 190.59	1234 406.88	1249 623.21	1264 839.59	1280 056.00
132 40 00	1219 060.25	1234 276.74	1249 493.26	1264 709.82	1279 926.43
132 42 30	1218 935.15	1234 151.82	1249 368.52	1264 585.27	1279 802.05
132 45 00	1218 815.26	1234 032.12	1249 249.00	1264 465.93	1279 682.89
132 47 30	1218 700.60	1233 917.64	1249 134.70	1264 351.81	1279 568.94
132 50 00	1218 591.17	1233 808.38	1249 025.62	1264 242.89	1279 460.19
132 52 30	1218 486.96	1233 704.34	1248 921.75	1264 139.19	1279 356.66
132 55 00	1218 387.97	1233 605.53	1248 823.10	1264 040.71	1279 258.34
132 57 30	1218 294.22	1233 511.94	1248 729.67	1263 947.45	1279 165.23
133 00 00	1218 205.69	1233 423.57	1248 641.47	1263 859.40	1279 077.34
133 02 30	1218 122.39	1233 340.43	1248 558.48	1263 776.56	1278 994.66
133 05 00	1218 044.33	1233 262.52	1248 480.73	1263 698.96	1278 917.20
133 07 30	1217 971.50	1233 189.84	1248 408.20	1263 626.57	1278 844.95
133 10 00	1217 903.89	1233 122.38	1248 340.88	1263 559.39	1278 777.91
133 12 30	1217 841.52	1233 060.15	1248 278.79	1263 497.44	1278 716.10
133 15 00	1217 784.38	1233 003.15	1248 221.92	1263 440.71	1278 659.50
133 17 30	1217 732.48	1232 951.39	1248 170.29	1263 389.21	1278 608.12
133 20 00	1217 685.81	1232 904.85	1248 123.88	1263 342.92	1278 561.97
133 22 30	1217 644.38	1232 863.54	1248 082.70	1263 301.87	1278 521.03
133 25 00	1217 608.19	1232 827.47	1248 046.75	1263 266.04	1278 485.31
133 27 30	1217 577.23	1232 796.64	1248 016.03	1263 235.43	1278 454.82
133 30 00	1217 551.51	1232 771.03	1247 990.54	1263 210.05	1278 429.55
133 32 30	1217 531.03	1232 750.66	1247 970.28	1263 189.89	1278 409.50
133 35 00	1217 515.79	1232 735.53	1247 955.26	1263 174.97	1278 394.67
133 37 30	1217 505.79	1232 725.63	1247 945.46	1263 165.28	1278 385.07
133 40 00	1217 501.03	1232 720.98	1247 940.90	1263 160.82	1278 380.71
133 42 30	1217 501.52	1232 721.56	1247 941.58	1263 161.58	1278 381.56
133 45 00	1217 507.25	1232 727.38	1247 947.48	1263 167.58	1278 387.65
133 47 30	1217 518.22	1232 738.44	1247 958.63	1263 178.81	1278 398.96
133 50 00	1217 534.44	1232 754.74	1247 975.01	1263 195.28	1278 415.50
133 52 30	1217 555.90	1232 776.28	1247 996.64	1263 216.97	1278 437.27
133 55 00	1217 582.61	1232 803.08	1248 023.50	1263 243.90	1278 464.27
133 57 30	1217 614.57	1232 835.10	1248 055.60	1263 276.08	1278 496.50
134 00 00	1217 651.78	1232 872.38	1248 092.94	1263 313.48	1278 533.97
134 02 30	1217 694.23	1232 914.90	1248 135.53	1263 356.12	1278 576.68
134 05 00	1217 741.94	1232 962.67	1248 183.36	1263 404.01	1278 624.61
134 07 30	1217 794.89	1233 015.68	1248 236.42	1263 457.13	1278 677.78
134 10 00	1217 853.10	1233 073.94	1248 294.73	1263 515.48	1278 736.18
134 12 30	1217 916.56	1233 137.45	1248 358.29	1263 579.08	1278 799.83
134 15 00	1217 985.27	1233 206.20	1248 427.08	1263 647.93	1278 868.71
134 17 30	1218 059.24	1233 280.21	1248 501.13	1263 722.01	1278 942.83
134 20 00	1218 138.46	1233 359.47	1248 580.43	1263 801.34	1279 022.18
134 22 30	1218 222.93	1233 443.99	1248 664.97	1263 885.90	1279 106.78
134 25 00	1218 312.67	1233 533.75	1248 754.76	1263 975.72	1279 196.62
134 27 30	1218 407.66	1233 628.77	1248 849.80	1264 070.78	1279 291.70
134 30 00	1218 507.92	1233 729.04	1248 950.09	1264 171.09	1279 392.02

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.42	-.47	-.51	-.55	-.58	-.60	-.62	-.64	-.65	-.65

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	55 20 00	55 22 30	55 25 00	55 27 30	55 30 00
129 30 00	3552 686.92	3551 773.66	3550 860.25	3549 946.65	3549 032.89
129 32 30	3544 026.39	3543 122.18	3542 217.80	3541 313.26	3540 408.54
129 35 00	3535 365.60	3534 470.43	3533 575.09	3532 679.59	3531 783.92
129 37 30	3526 704.56	3525 818.42	3524 932.13	3524 045.68	3523 159.06
129 40 00	3518 043.27	3517 166.17	3516 288.93	3515 411.52	3514 533.96
129 42 30	3509 381.72	3508 513.67	3507 645.46	3506 777.11	3505 908.60
129 45 00	3500 719.92	3499 860.91	3499 001.75	3498 142.45	3497 282.99
129 47 30	3492 057.87	3491 207.91	3490 357.80	3489 507.55	3488 657.14
129 50 00	3483 395.57	3482 554.66	3481 713.60	3480 872.40	3480 031.05
129 52 30	3474 733.03	3473 901.17	3473 069.16	3472 237.01	3471 404.72
129 55 00	3466 070.26	3465 247.43	3464 424.48	3463 601.39	3462 778.16
129 57 30	3457 407.23	3456 593.46	3455 779.55	3454 965.52	3454 151.36
130 00 00	3448 743.97	3447 939.25	3447 134.40	3446 329.43	3445 524.32
130 02 30	3440 080.47	3439 284.81	3438 489.02	3437 693.10	3436 897.06
130 05 00	3431 416.74	3430 630.13	3429 843.40	3429 056.54	3428 269.56
130 07 30	3422 752.78	3421 975.22	3421 197.55	3420 419.75	3419 641.84
130 10 00	3414 088.59	3413 320.08	3412 551.47	3411 782.74	3411 013.89
130 12 30	3405 424.16	3404 664.72	3403 905.16	3403 145.50	3402 385.72
130 15 00	3396 759.51	3396 009.13	3395 258.64	3394 508.03	3393 757.32
130 17 30	3388 094.64	3387 353.32	3386 611.89	3385 870.36	3385 128.71
130 20 00	3379 429.54	3378 697.28	3377 964.92	3377 232.45	3376 499.88
130 22 30	3370 764.22	3370 041.03	3369 317.73	3368 594.34	3367 870.84
130 25 00	3362 098.69	3361 384.56	3360 670.33	3359 956.01	3359 241.58
130 27 30	3353 432.94	3352 727.87	3352 022.71	3351 317.46	3350 612.11
130 30 00	3344 766.97	3344 070.97	3343 374.88	3342 678.70	3341 982.43
130 32 30	3336 100.79	3335 413.86	3334 726.84	3334 039.74	3333 352.55
130 35 00	3327 434.41	3326 756.54	3326 078.60	3325 400.57	3324 722.45
130 37 30	3318 767.81	3318 099.02	3317 430.14	3316 761.19	3316 092.16
130 40 00	3310 101.01	3309 441.29	3308 781.49	3308 121.62	3307 461.67
130 42 30	3301 434.00	3300 783.35	3300 132.64	3299 481.84	3298 830.97
130 45 00	3292 766.78	3292 125.22	3291 483.57	3290 841.87	3290 200.08
130 47 30	3284 099.38	3283 466.88	3282 834.32	3282 201.69	3281 569.00
130 50 00	3275 431.78	3274 808.36	3274 184.87	3273 561.33	3272 937.72
130 52 30	3266 763.97	3266 149.63	3265 535.23	3264 920.77	3264 306.25
130 55 00	3258 095.97	3257 490.71	3256 885.40	3256 280.03	3255 674.59
130 57 30	3249 427.78	3248 831.60	3248 235.37	3247 639.09	3247 042.75
131 00 00	3240 759.40	3240 172.30	3239 585.16	3238 997.96	3238 410.71
131 02 30	3232 090.84	3231 512.83	3230 934.77	3230 356.66	3229 778.51
131 05 00	3223 422.09	3222 853.15	3222 284.19	3221 715.17	3221 146.11
131 07 30	3214 753.15	3214 193.31	3213 633.43	3213 073.51	3212 513.54
131 10 00	3206 084.03	3205 533.28	3204 982.49	3204 431.66	3203 880.79
131 12 30	3197 414.73	3196 873.06	3196 331.37	3195 789.64	3195 247.87
131 15 00	3188 745.26	3188 212.69	3187 680.08	3187 147.45	3186 614.78
131 17 30	3180 075.61	3179 552.13	3179 028.62	3178 505.08	3177 981.51
131 20 00	3171 405.78	3170 891.39	3170 376.98	3169 862.54	3169 348.08
131 22 30	3162 735.79	3162 230.49	3161 725.18	3161 219.84	3160 714.49
131 25 00	3154 065.62	3153 569.42	3153 073.21	3152 576.98	3152 080.72
131 27 30	3145 395.29	3144 908.19	3144 421.07	3143 933.95	3143 446.79
131 30 00	3136 724.80	3136 246.79	3135 768.77	3135 290.75	3134 812.71
131 32 30	3128 054.14	3127 585.23	3127 116.32	3126 647.40	3126 178.47
131 35 00	3119 383.32	3118 923.51	3118 463.70	3118 003.89	3117 544.07
131 37 30	3110 712.34	3110 261.63	3109 810.94	3109 360.23	3108 909.53
131 40 00	3102 041.20	3101 599.60	3101 158.01	3100 716.41	3100 274.82
131 42 30	3093 369.91	3092 937.41	3092 504.92	3092 072.44	3091 639.96
131 45 00	3084 698.47	3084 275.08	3083 851.70	3083 428.33	3083 004.97
131 47 30	3076 026.87	3075 612.59	3075 198.32	3074 784.07	3074 369.83
131 50 00	3067 355.13	3066 949.96	3066 544.80	3066 139.66	3065 734.54
131 52 30	3058 683.24	3058 287.18	3057 891.14	3057 495.12	3057 099.11
131 55 00	3050 011.20	3049 624.26	3049 237.33	3048 850.43	3048 463.54
131 57 30	3041 339.03	3040 961.19	3040 583.39	3040 205.60	3039 827.84
132 00 00	3032 666.72	3032 298.00	3031 929.31	3031 560.64	3031 192.01

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.01	+.02	+.02	+.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	55 20 00	55 22 30	55 25 00	55 27 30	55 30 00
129 30 00	1304 560.27	1319 752.57	1334 945.07	1350 137.79	1365 330.70
129 32 30	1304 042.29	1319 235.04	1334 428.00	1349 621.16	1364 814.52
129 35 00	1303 529.46	1318 722.66	1333 916.07	1349 109.68	1364 303.49
129 37 30	1303 021.78	1318 215.43	1333 409.28	1348 603.33	1363 797.58
129 40 00	1302 519.25	1317 713.35	1332 907.64	1348 102.14	1363 296.82
129 42 30	1302 021.88	1317 216.42	1332 411.15	1347 606.07	1362 801.20
129 45 00	1301 529.66	1316 724.64	1331 919.80	1347 115.16	1362 310.72
129 47 30	1301 042.60	1316 238.01	1331 433.60	1346 629.40	1361 825.38
129 50 00	1300 560.69	1315 756.52	1330 952.54	1346 148.76	1361 345.17
129 52 30	1300 083.94	1315 280.20	1330 476.65	1345 673.29	1360 870.12
129 55 00	1299 612.34	1314 809.03	1330 005.89	1345 202.96	1360 400.20
129 57 30	1299 145.91	1314 343.01	1329 540.30	1344 737.78	1359 935.43
130 00 00	1298 684.63	1313 882.15	1329 079.85	1344 277.74	1359 475.80
130 02 30	1298 228.51	1313 426.44	1328 624.54	1343 822.85	1359 021.32
130 05 00	1297 777.55	1312 975.89	1328 174.40	1343 373.11	1358 571.99
130 07 30	1297 331.75	1312 530.50	1327 729.41	1342 928.52	1358 127.80
130 10 00	1296 891.11	1312 090.26	1327 289.58	1342 489.09	1357 688.76
130 12 30	1296 455.64	1311 655.18	1326 854.90	1342 054.79	1357 254.86
130 15 00	1296 025.32	1311 225.26	1326 425.37	1341 625.66	1356 826.12
130 17 30	1295 600.17	1310 800.50	1326 001.00	1341 201.68	1356 402.52
130 20 00	1295 180.19	1310 380.91	1325 581.79	1340 782.85	1355 984.07
130 22 30	1294 765.37	1309 966.47	1325 167.73	1340 369.18	1355 570.78
130 25 00	1294 355.72	1309 557.20	1324 758.84	1339 960.66	1355 162.64
130 27 30	1293 951.22	1309 153.09	1324 355.11	1339 557.29	1354 759.64
130 30 00	1293 551.90	1308 754.14	1323 956.53	1339 159.09	1354 361.81
130 32 30	1293 157.76	1308 360.36	1323 563.11	1338 766.04	1353 969.12
130 35 00	1292 768.77	1307 971.74	1323 174.86	1338 378.15	1353 581.59
130 37 30	1292 384.96	1307 588.29	1322 791.77	1337 995.41	1353 199.21
130 40 00	1292 006.31	1307 210.00	1322 413.84	1337 617.85	1352 822.00
130 42 30	1291 632.84	1306 836.89	1322 041.08	1337 245.43	1352 449.93
130 45 00	1291 264.54	1306 468.93	1321 673.48	1336 878.18	1352 083.02
130 47 30	1290 901.41	1306 106.15	1321 311.05	1336 516.09	1351 721.28
130 50 00	1290 543.45	1305 748.55	1320 953.78	1336 159.16	1351 364.70
130 52 30	1290 190.67	1305 396.10	1320 601.68	1335 807.40	1351 013.27
130 55 00	1289 843.07	1305 048.84	1320 254.74	1335 460.80	1350 667.00
130 57 30	1289 500.64	1304 706.74	1319 912.98	1335 119.37	1350 325.89
131 00 00	1289 163.38	1304 369.81	1319 576.38	1334 783.10	1349 989.94
131 02 30	1288 831.30	1304 038.06	1319 244.96	1334 451.99	1349 659.16
131 05 00	1288 504.40	1303 711.49	1318 918.70	1334 126.06	1349 333.53
131 07 30	1288 182.68	1303 390.08	1318 597.61	1333 805.28	1349 013.08
131 10 00	1287 866.13	1303 073.86	1318 281.70	1333 489.68	1348 697.79
131 12 30	1287 554.77	1302 762.80	1317 970.96	1333 179.25	1348 387.67
131 15 00	1287 248.59	1302 456.93	1317 665.39	1332 873.99	1348 082.71
131 17 30	1286 947.59	1302 156.24	1317 365.00	1332 573.90	1347 782.91
131 20 00	1286 651.78	1301 860.72	1317 069.78	1332 278.98	1347 488.29
131 22 30	1286 361.13	1301 570.38	1316 779.74	1331 989.23	1347 198.83
131 25 00	1286 075.69	1301 285.22	1316 494.87	1331 704.66	1346 914.54
131 27 30	1285 795.42	1301 005.25	1316 215.19	1331 425.25	1346 635.43
131 30 00	1285 520.34	1300 730.45	1315 940.68	1331 151.02	1346 361.48
131 32 30	1285 250.44	1300 460.84	1315 671.35	1330 881.97	1346 092.70
131 35 00	1284 985.73	1300 196.41	1315 407.20	1330 618.09	1345 829.10
131 37 30	1284 726.21	1299 937.16	1315 148.22	1330 359.40	1345 570.67
131 40 00	1284 471.88	1299 683.10	1314 894.43	1330 105.87	1345 317.41
131 42 30	1284 222.74	1299 434.23	1314 645.82	1329 857.53	1345 069.33
131 45 00	1283 978.78	1299 190.54	1314 402.40	1329 614.36	1344 826.42
131 47 30	1283 740.02	1298 952.04	1314 164.16	1329 376.38	1344 588.70
131 50 00	1283 506.45	1298 718.72	1313 931.10	1329 143.57	1344 356.14
131 52 30	1283 278.07	1298 490.60	1313 703.23	1328 915.95	1344 128.77
131 55 00	1283 054.88	1298 267.67	1313 480.53	1328 693.51	1343 906.56
131 57 30	1282 836.89	1298 049.92	1313 263.03	1328 476.24	1343 689.54
132 00 00	1282 624.09	1297 837.36	1313 050.72	1328 264.17	1343 477.70

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	55 20 00	55 22 30	55 25 00	55 27 30	55 30 00
132 00 00	3032 666.72	3032 298.00	3031 929.31	3031 560.64	3031 192.01
132 02 30	3023 994.26	3023 634.65	3023 275.09	3022 915.55	3022 556.03
132 05 00	3015 321.67	3014 971.18	3014 620.74	3014 270.32	3013 919.93
132 07 30	3006 648.95	3006 307.59	3005 966.26	3005 624.97	3005 283.71
132 10 00	2997 976.10	2997 643.85	2997 311.65	2996 979.48	2996 647.36
132 12 30	2989 303.11	2988 979.99	2988 656.91	2988 333.87	2988 010.87
132 15 00	2980 630.01	2980 316.01	2980 002.05	2979 688.14	2979 374.27
132 17 30	2971 956.77	2971 651.89	2971 347.06	2971 042.28	2970 737.55
132 20 00	2963 283.41	2962 987.66	2962 691.96	2962 396.31	2962 100.71
132 22 30	2954 609.94	2954 323.31	2954 036.74	2953 750.23	2953 463.76
132 25 00	2945 936.34	2945 658.84	2945 381.40	2945 104.02	2944 826.70
132 27 30	2937 262.62	2936 994.25	2936 725.94	2936 457.70	2936 189.51
132 30 00	2928 588.80	2928 329.56	2928 070.39	2927 811.28	2927 552.23
132 32 30	2919 914.86	2919 664.75	2919 414.72	2919 164.75	2918 914.84
132 35 00	2911 240.80	2910 999.83	2910 758.93	2910 518.11	2910 277.34
132 37 30	2902 566.65	2902 334.81	2902 103.05	2901 871.36	2901 639.74
132 40 00	2893 892.38	2893 669.69	2893 447.06	2893 224.52	2893 002.04
132 42 30	2885 218.01	2885 004.45	2884 790.97	2884 577.57	2884 364.24
132 45 00	2876 543.54	2876 339.12	2876 134.78	2875 930.53	2875 726.35
132 47 30	2867 868.98	2867 673.69	2867 478.50	2867 283.39	2867 088.36
132 50 00	2859 194.31	2859 008.17	2858 822.12	2858 636.16	2858 450.28
132 52 30	2850 519.55	2850 342.55	2850 165.65	2849 988.84	2849 812.11
132 55 00	2841 844.69	2841 676.84	2841 509.09	2841 341.43	2841 173.86
132 57 30	2833 169.75	2833 011.05	2832 852.44	2832 693.93	2832 535.52
133 00 00	2824 494.72	2824 345.16	2824 195.71	2824 046.35	2823 897.09
133 02 30	2815 819.59	2815 679.18	2815 538.89	2815 398.68	2815 258.58
133 05 00	2807 144.40	2807 013.14	2806 881.99	2806 750.94	2806 620.00
133 07 30	2798 469.11	2798 347.00	2798 225.00	2798 103.12	2797 981.34
133 10 00	2789 793.74	2789 680.79	2789 567.95	2789 455.22	2789 342.60
133 12 30	2781 118.30	2781 014.50	2780 910.82	2780 807.25	2780 703.80
133 15 00	2772 442.78	2772 348.14	2772 253.61	2772 159.21	2772 064.92
133 17 30	2763 767.19	2763 681.70	2763 596.34	2763 511.10	2763 425.97
133 20 00	2755 091.53	2755 015.20	2754 939.00	2754 862.92	2754 786.96
133 22 30	2746 415.79	2746 348.63	2746 281.59	2746 214.68	2746 147.89
133 25 00	2737 740.00	2737 681.99	2737 624.11	2737 566.38	2737 508.75
133 27 30	2729 064.14	2729 015.29	2728 966.59	2728 918.01	2728 869.57
133 30 00	2720 388.21	2720 348.53	2720 308.99	2720 269.59	2720 230.31
133 32 30	2711 712.22	2711 681.71	2711 651.34	2711 621.11	2711 591.00
133 35 00	2703 036.19	2703 014.84	2702 993.64	2702 972.58	2702 951.65
133 37 30	2694 360.09	2694 347.91	2694 335.87	2694 323.99	2694 312.25
133 40 00	2685 683.93	2685 680.92	2685 678.07	2685 675.36	2685 672.79
133 42 30	2677 007.73	2677 013.90	2677 020.21	2677 026.68	2677 033.29
133 45 00	2668 331.48	2668 346.82	2668 362.31	2668 377.95	2668 393.75
133 47 30	2659 655.18	2659 679.69	2659 704.36	2659 729.19	2659 754.16
133 50 00	2650 978.84	2651 012.53	2651 046.37	2651 080.38	2651 114.54
133 52 30	2642 302.45	2642 345.31	2642 388.34	2642 431.53	2642 474.88
133 55 00	2633 626.03	2633 678.07	2633 730.28	2633 782.65	2633 835.18
133 57 30	2624 949.57	2625 010.79	2625 072.18	2625 133.74	2625 195.46
134 00 00	2616 273.07	2616 343.47	2616 414.05	2616 484.79	2616 555.70
134 02 30	2607 596.53	2607 676.12	2607 755.88	2607 835.81	2607 915.91
134 05 00	2598 919.98	2599 008.75	2599 097.69	2599 186.81	2599 276.11
134 07 30	2590 243.38	2590 341.34	2590 439.47	2590 537.78	2590 636.28
134 10 00	2581 566.76	2581 673.90	2581 781.23	2581 888.73	2581 996.42
134 12 30	2572 890.12	2573 006.45	2573 122.97	2573 239.67	2573 356.55
134 15 00	2564 213.45	2564 338.97	2564 464.68	2564 590.58	2564 716.66
134 17 30	2555 536.77	2555 671.48	2555 806.38	2555 941.48	2556 076.75
134 20 00	2546 860.07	2547 003.97	2547 148.07	2547 292.37	2547 436.84
134 22 30	2538 183.35	2538 336.45	2538 489.75	2538 643.24	2538 796.92
134 25 00	2529 506.62	2529 668.91	2529 831.41	2529 994.10	2530 156.98
134 27 30	2520 829.88	2521 001.37	2521 173.06	2521 344.96	2521 517.05
134 30 00	2512 153.13	2512 333.81	2512 514.71	2512 695.81	2512 877.11

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	55 20 00	55 22 30	55 25 00	55 27 30	55 30 00
132 00 00	1282 624.09	1297 837.36	1313 050.72	1328 264.17	1343 477.70
132 02 30	1282 416.49	1297 630.00	1312 843.59	1328 057.28	1343 271.05
132 05 00	1282 214.09	1297 427.82	1312 641.65	1327 855.57	1343 069.57
132 07 30	1282 016.87	1297 230.85	1312 444.90	1327 659.04	1342 873.27
132 10 00	1281 824.86	1297 039.07	1312 253.34	1327 467.71	1342 682.15
132 12 30	1281 638.05	1296 852.46	1312 066.98	1327 281.56	1342 496.22
132 15 00	1281 456.44	1296 671.08	1311 885.80	1327 100.60	1342 315.47
132 17 30	1281 280.03	1296 494.88	1311 709.82	1326 924.83	1342 139.92
132 20 00	1281 108.81	1296 323.89	1311 539.03	1326 754.25	1341 969.54
132 22 30	1280 942.80	1296 158.08	1311 373.43	1326 588.86	1341 804.35
132 25 00	1280 781.99	1295 997.48	1311 213.03	1326 428.66	1341 644.35
132 27 30	1280 626.38	1295 842.07	1311 057.82	1326 273.65	1341 489.53
132 30 00	1280 475.98	1295 691.87	1310 907.82	1326 123.84	1341 339.91
132 32 30	1280 330.78	1295 546.86	1310 763.00	1325 979.21	1341 195.47
132 35 00	1280 190.79	1295 407.06	1310 623.39	1325 839.78	1341 056.23
132 37 30	1280 056.00	1295 272.46	1310 488.97	1325 705.54	1340 922.18
132 40 00	1279 926.43	1295 143.06	1310 359.75	1325 576.51	1340 793.32
132 42 30	1279 802.05	1295 018.87	1310 235.74	1325 452.67	1340 669.65
132 45 00	1279 682.89	1294 899.89	1310 116.93	1325 334.03	1340 551.17
132 47 30	1279 568.94	1294 786.10	1310 003.31	1325 220.58	1340 437.89
132 50 00	1279 460.19	1294 677.53	1309 894.90	1325 112.33	1340 329.80
132 52 30	1279 356.66	1294 574.16	1309 791.70	1325 009.29	1340 226.91
132 55 00	1279 258.34	1294 476.00	1309 693.70	1324 911.44	1340 129.22
132 57 30	1279 165.23	1294 383.05	1309 600.89	1324 818.79	1340 036.72
133 00 00	1279 077.34	1294 295.31	1309 513.30	1324 731.35	1339 949.42
133 02 30	1278 994.66	1294 212.78	1309 430.92	1324 649.11	1339 867.32
133 05 00	1278 917.20	1294 135.46	1309 353.74	1324 572.07	1339 790.42
133 07 30	1278 844.95	1294 063.35	1309 281.77	1324 500.23	1339 718.72
133 10 00	1278 777.91	1293 996.45	1309 215.01	1324 433.60	1339 652.22
133 12 30	1278 716.10	1293 934.77	1309 153.46	1324 372.18	1339 590.92
133 15 00	1278 659.50	1293 878.30	1309 097.12	1324 315.97	1339 534.83
133 17 30	1278 608.12	1293 827.05	1309 045.99	1324 264.96	1339 483.94
133 20 00	1278 561.97	1293 781.01	1309 000.07	1324 219.16	1339 438.26
133 22 30	1278 521.03	1293 740.19	1308 959.37	1324 178.57	1339 397.77
133 25 00	1278 485.31	1293 704.59	1308 923.88	1324 143.19	1339 362.50
133 27 30	1278 454.82	1293 674.20	1308 893.60	1324 113.02	1339 332.43
133 30 00	1278 429.55	1293 649.04	1308 868.54	1324 088.05	1339 307.57
133 32 30	1278 409.50	1293 629.10	1308 848.69	1324 068.31	1339 287.92
133 35 00	1278 394.67	1293 614.37	1308 834.06	1324 053.77	1339 273.47
133 37 30	1278 385.07	1293 604.87	1308 824.65	1324 044.45	1339 264.23
133 40 00	1278 380.71	1293 600.59	1308 820.46	1324 040.34	1339 260.22
133 42 30	1278 381.56	1293 601.53	1308 821.49	1324 041.45	1339 261.40
133 45 00	1278 387.65	1293 607.69	1308 827.73	1324 047.77	1339 267.80
133 47 30	1278 398.96	1293 619.09	1308 839.20	1324 059.31	1339 279.41
133 50 00	1278 415.50	1293 635.70	1308 855.89	1324 076.08	1339 296.24
133 52 30	1278 437.27	1293 657.54	1308 877.80	1324 098.05	1339 318.28
133 55 00	1278 464.27	1293 684.61	1308 904.93	1324 125.25	1339 345.54
133 57 30	1278 496.50	1293 716.91	1308 937.29	1324 157.66	1339 378.01
134 00 00	1278 533.97	1293 754.44	1308 974.88	1324 195.30	1339 415.70
134 02 30	1278 576.68	1293 797.19	1309 017.68	1324 238.16	1339 458.61
134 05 00	1278 624.61	1293 845.18	1309 065.72	1324 286.24	1339 506.74
134 07 30	1278 677.78	1293 898.40	1309 118.98	1324 339.54	1339 560.08
134 10 00	1278 736.18	1293 956.84	1309 177.47	1324 398.07	1339 618.64
134 12 30	1278 799.83	1294 020.53	1309 241.19	1324 461.83	1339 682.43
134 15 00	1278 868.71	1294 089.44	1309 310.14	1324 530.81	1339 751.44
134 17 30	1278 942.83	1294 163.59	1309 384.31	1324 605.01	1339 825.67
134 20 00	1279 022.18	1294 242.98	1309 463.73	1324 684.44	1339 905.12
134 22 30	1279 106.78	1294 327.60	1309 548.37	1324 769.11	1339 989.79
134 25 00	1279 196.62	1294 417.45	1309 638.24	1324 859.00	1340 079.70
134 27 30	1279 291.70	1294 512.55	1309 733.35	1324 954.11	1340 174.83
134 30 00	1279 392.02	1294 612.88	1309 833.70	1325 054.47	1340 275.18

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.42	-.47	-.51	-.55	-.58	-.60	-.62	-.64	-.65	-.65

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	55 30 00	55 32 30	55 35 00	55 37 30	55 40 00
129 30 00	3549 032.89	3548 118.95	3547 204.82	3546 290.51	3545 376,00
129 32 30	3540 408.54	3539 503.64	3538 598.57	3537 693.32	3536 787.87
129 35 00	3531 783.92	3530 888.08	3529 992.07	3529 095.87	3528 199.49
129 37 30	3523 159.06	3522 272.27	3521 385.32	3520 498.18	3519 610.86
129 40 00	3514 533.96	3513 656.22	3512 778.32	3511 900.25	3511 022.00
129 42 30	3505 908.60	3505 039.92	3504 171.08	3503 302.07	3502 432.88
129 45 00	3497 282.99	3496 423.37	3495 563.59	3494 703.64	3493 843.53
129 47 30	3488 657.14	3487 806.58	3486 955.86	3486 104.99	3485 253.94
129 50 00	3480 031.05	3479 189.55	3478 347.90	3477 506.09	3476 664.11
129 52 30	3471 404.72	3470 572.28	3469 739.69	3468 906.95	3468 074.04
129 55 00	3462 778.16	3461 954.79	3461 131.26	3460 307.58	3459 483.75
129 57 30	3454 151.36	3453 337.04	3452 522.58	3451 707.98	3450 893.22
130 00 00	3445 524.32	3444 719.07	3443 913.68	3443 108.15	3442 302.47
130 02 30	3436 897.06	3436 100.87	3435 304.56	3434 508.10	3433 711.49
130 05 00	3428 269.56	3427 482.45	3426 695.20	3425 907.81	3425 120.29
130 07 30	3419 641.84	3418 863.79	3418 085.61	3417 307.31	3416 528.86
130 10 00	3411 013.89	3410 244.92	3409 475.82	3408 706.58	3407 937.21
130 12 30	3402 385.72	3401 625.81	3400 865.79	3400 105.63	3399 345.34
130 15 00	3393 757.32	3393 006.49	3392 255.54	3391 504.46	3390 753.26
130 17 30	3385 128.71	3384 386.96	3383 645.08	3382 903.09	3382 160.97
130 20 00	3376 499.88	3375 767.20	3375 034.40	3374 301.49	3373 568.46
130 22 30	3367 870.84	3367 147.23	3366 423.51	3365 699.69	3364 975.74
130 25 00	3359 241.58	3358 527.06	3357 812.42	3357 097.67	3356 382.81
130 27 30	3350 612.11	3349 906.67	3349 201.11	3348 495.45	3347 789.68
130 30 00	3341 982.43	3341 286.06	3340 589.60	3339 893.02	3339 196.34
130 32 30	3333 352.55	3332 665.26	3331 977.88	3331 290.39	3330 602.80
130 35 00	3324 722.45	3324 044.25	3323 365.95	3322 687.56	3322 009.06
130 37 30	3316 092.16	3315 423.04	3314 753.83	3314 084.52	3313 415.12
130 40 00	3307 461.67	3306 801.63	3306 141.51	3305 481.30	3304 820.99
130 42 30	3298 830.97	3298 180.03	3297 528.99	3296 877.87	3296 226.66
130 45 00	3290 200.08	3289 558.22	3288 916.28	3288 274.25	3287 632.14
130 47 30	3281 569.00	3280 936.22	3280 303.37	3279 670.45	3279 037.43
130 50 00	3272 937.72	3272 314.04	3271 690.29	3271 066.45	3270 442.54
130 52 30	3264 306.25	3263 691.66	3263 077.00	3262 462.26	3261 847.45
130 55 00	3255 674.59	3255 069.10	3254 463.53	3253 857.90	3253 252.19
130 57 30	3247 042.75	3246 446.34	3245 849.88	3245 253.34	3244 656.74
131 00 00	3238 410.71	3237 823.41	3237 236.04	3236 648.61	3236 061.11
131 02 30	3229 778.51	3229 200.30	3228 622.03	3228 043.70	3227 465.30
131 05 00	3221 146.11	3220 577.00	3220 007.83	3219 438.61	3218 869.32
131 07 30	3212 513.54	3211 953.53	3211 393.47	3210 833.36	3210 273.17
131 10 00	3203 880.79	3203 329.88	3202 778.93	3202 227.91	3201 676.85
131 12 30	3195 247.87	3194 706.06	3194 164.21	3193 622.30	3193 080.35
131 15 00	3186 614.78	3186 082.08	3185 549.33	3185 016.53	3184 483.69
131 17 30	3177 981.51	3177 457.91	3176 934.28	3176 410.59	3175 886.87
131 20 00	3169 348.08	3168 833.58	3168 319.06	3167 804.49	3167 289.87
131 22 30	3160 714.49	3160 209.10	3159 703.68	3159 198.22	3158 692.72
131 25 00	3152 080.72	3151 584.44	3151 088.13	3150 591.79	3150 095.42
131 27 30	3143 446.79	3142 959.63	3142 472.43	3141 985.21	3141 497.95
131 30 00	3134 812.71	3134 334.65	3133 856.57	3133 378.47	3132 900.34
131 32 30	3126 178.47	3125 709.53	3125 240.56	3124 771.57	3124 302.56
131 35 00	3117 544.07	3117 084.24	3116 624.39	3116 164.53	3115 704.63
131 37 30	3108 909.53	3108 458.81	3108 008.08	3107 557.33	3107 106.57
131 40 00	3100 274.82	3099 833.22	3099 391.61	3098 949.99	3098 508.34
131 42 30	3091 639.96	3091 207.49	3090 775.00	3090 342.49	3089 909.98
131 45 00	3083 004.97	3082 581.61	3082 158.24	3081 734.87	3081 311.49
131 47 30	3074 369.83	3073 955.58	3073 541.34	3073 127.09	3072 712.84
131 50 00	3065 734.54	3065 329.42	3064 924.30	3064 519.18	3064 114.06
131 52 30	3057 099.11	3056 703.12	3056 307.12	3055 911.14	3055 515.15
131 55 00	3048 463.54	3048 076.67	3047 689.81	3047 302.95	3046 916.09
131 57 30	3039 827.84	3039 450.09	3039 072.36	3038 694.63	3038 316.91
132 00 00	3031 192.01	3030 823.38	3030 454.78	3030 086.19	3029 717.60

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.01	+.02	+.02	+.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	55 30 00	55 32 30	55 35 00	55 37 30	55 40 00
129 30 00	1365 330.70	1380 523.80	1395 717.13	1410 910.66	1426 104.40
129 32 30	1364 814.52	1380 008.08	1395 201.85	1410 395.82	1425 590.01
129 35 00	1364 303.49	1379 497.49	1394 691.70	1409 886.11	1425 080.73
129 37 30	1363 797.58	1378 992.02	1394 186.67	1409 381.52	1424 576.58
129 40 00	1363 296.82	1378 491.70	1393 686.78	1408 882.07	1424 077.56
129 42 30	1362 801.20	1377 996.51	1393 192.02	1408 387.74	1423 583.66
129 45 00	1362 310.72	1377 506.45	1392 702.40	1407 898.54	1423 094.88
129 47 30	1361 825.38	1377 021.54	1392 217.91	1407 414.47	1422 611.24
129 50 00	1361 345.17	1376 541.76	1391 738.55	1406 935.53	1422 132.71
129 52 30	1360 870.12	1376 067.13	1391 264.33	1406 461.72	1421 659.32
129 55 00	1360 400.20	1375 597.62	1390 795.24	1405 993.05	1421 191.06
129 57 30	1359 935.43	1375 133.27	1390 331.30	1405 529.52	1420 727.92
130 00 00	1359 475.80	1374 674.05	1389 872.49	1405 071.11	1420 269.92
130 02 30	1359 021.32	1374 219.97	1389 418.81	1404 617.83	1419 817.05
130 05 00	1358 571.99	1373 771.04	1388 970.27	1404 169.69	1419 369.31
130 07 30	1358 127.80	1373 327.24	1388 526.88	1403 726.69	1418 926.70
130 10 00	1357 688.76	1372 888.60	1388 088.63	1403 288.83	1418 489.23
130 12 30	1357 254.86	1372 455.09	1387 655.51	1402 856.11	1418 056.89
130 15 00	1356 826.12	1372 026.73	1387 227.54	1402 428.51	1417 629.67
130 17 30	1356 402.52	1371 603.52	1386 804.71	1402 006.06	1417 207.61
130 20 00	1355 984.07	1371 185.46	1386 387.02	1401 588.76	1416 790.66
130 22 30	1355 570.78	1370 772.53	1385 974.48	1401 176.58	1416 378.87
130 25 00	1355 162.64	1370 364.77	1385 567.08	1400 769.55	1415 972.20
130 27 30	1354 759.64	1369 962.15	1385 164.82	1400 367.67	1415 570.68
130 30 00	1354 361.81	1369 564.67	1384 767.72	1399 970.92	1415 174.30
130 32 30	1353 969.12	1369 172.35	1384 375.75	1399 579.31	1414 783.05
130 35 00	1353 581.59	1368 785.18	1383 988.94	1399 192.85	1414 396.93
130 37 30	1353 199.21	1368 403.16	1383 607.27	1398 811.54	1414 015.97
130 40 00	1352 822.00	1368 026.29	1383 230.75	1398 435.37	1413 640.15
130 42 30	1352 449.93	1367 654.57	1382 859.38	1398 064.34	1413 269.47
130 45 00	1352 083.02	1367 288.01	1382 493.16	1397 698.46	1412 903.92
130 47 30	1351 721.28	1366 926.61	1382 132.10	1397 337.73	1412 543.53
130 50 00	1351 364.70	1366 570.36	1381 776.18	1396 982.15	1412 188.28
130 52 30	1351 013.27	1366 219.27	1381 425.42	1396 631.71	1411 838.17
130 55 00	1350 667.00	1365 873.32	1381 079.81	1396 286.43	1411 493.21
130 57 30	1350 325.89	1365 532.54	1380 739.35	1395 946.30	1411 153.40
131 00 00	1349 989.94	1365 196.92	1380 404.05	1395 611.31	1410 818.73
131 02 30	1349 659.16	1364 866.46	1380 073.90	1395 281.48	1410 489.21
131 05 00	1349 333.53	1364 541.15	1379 748.91	1394 956.80	1410 164.84
131 07 30	1349 013.08	1364 221.01	1379 429.07	1394 637.27	1409 845.62
131 10 00	1348 697.79	1363 906.02	1379 114.39	1394 322.90	1409 531.55
131 12 30	1348 387.67	1363 596.20	1378 804.88	1394 013.68	1409 222.63
131 15 00	1348 082.71	1363 291.54	1378 500.51	1393 709.62	1408 918.86
131 17 30	1347 782.91	1362 992.05	1378 201.31	1393 410.71	1408 620.24
131 20 00	1347 488.29	1362 697.71	1377 907.27	1393 116.96	1408 326.78
131 22 30	1347 198.83	1362 408.55	1377 618.39	1392 828.36	1408 038.47
131 25 00	1346 914.54	1362 124.55	1377 334.68	1392 544.93	1407 755.31
131 27 30	1346 635.43	1361 845.71	1377 056.12	1392 266.65	1407 477.31
131 30 00	1346 361.48	1361 572.05	1376 782.74	1391 993.54	1407 204.47
131 32 30	1346 092.70	1361 303.54	1376 514.50	1391 725.58	1406 936.78
131 35 00	1345 829.10	1361 040.21	1376 251.44	1391 462.78	1406 674.25
131 37 30	1345 570.67	1360 782.05	1375 993.54	1391 205.15	1406 416.88
131 40 00	1345 317.41	1360 529.06	1375 740.81	1390 952.68	1406 164.66
131 42 30	1345 069.33	1360 281.23	1375 493.25	1390 705.37	1405 917.61
131 45 00	1344 826.42	1360 038.58	1375 250.85	1390 463.23	1405 675.72
131 47 30	1344 588.70	1359 801.11	1375 013.62	1390 226.25	1405 438.98
131 50 00	1344 356.14	1359 568.80	1374 781.56	1389 994.44	1405 207.41
131 52 30	1344 128.77	1359 341.67	1374 554.68	1389 767.79	1404 981.01
131 55 00	1343 906.56	1359 119.71	1374 332.96	1389 546.30	1404 759.76
131 57 30	1343 689.54	1358 902.93	1374 116.41	1389 329.99	1404 543.67
132 00 00	1343 477.70	1358 691.32	1373 905.04	1389 118.85	1404 332.76

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	55 30 00	55 32 30	55 35 00	55 37 30	55 40 00
132 00 00	3031 192.01	3030 823.38	3030 454.78	3030 086.19	3029 717.60
132 02 30	3022 556.03	3022 196.55	3021 837.07	3021 477.61	3021 118.16
132 05 00	3013 919.93	3013 569.57	3013 219.22	3012 868.91	3012 518.60
132 07 30	3005 283.71	3004 942.48	3004 601.27	3004 260.09	3003 918.92
132 10 00	2996 647.36	2996 315.25	2995 983.18	2995 651.13	2995 319.11
132 12 30	2988 010.87	2987 687.91	2987 364.97	2987 042.06	2986 719.18
132 15 00	2979 374.27	2979 060.45	2978 746.65	2978 432.88	2978 119.15
132 17 30	2970 737.55	2970 432.86	2970 128.20	2969 823.58	2969 518.99
132 20 00	2962 100.71	2961 805.16	2961 509.64	2961 214.17	2960 918.72
132 22 30	2953 463.76	2953 177.35	2952 890.98	2952 604.64	2952 318.34
132 25 00	2944 826.70	2944 549.42	2944 272.19	2943 995.00	2943 717.86
132 27 30	2936 189.51	2935 921.39	2935 653.30	2935 385.26	2935 117.26
132 30 00	2927 552.23	2927 293.25	2927 034.31	2926 775.42	2926 516.57
132 32 30	2918 914.84	2918 665.00	2918 415.20	2918 165.46	2917 915.77
132 35 00	2910 277.34	2910 036.64	2909 796.00	2909 555.41	2909 314.88
132 37 30	2901 639.74	2901 408.19	2901 176.70	2900 945.27	2900 713.88
132 40 00	2893 002.04	2892 779.64	2892 557.30	2892 335.02	2892 112.80
132 42 30	2884 364.24	2884 150.99	2883 937.80	2883 724.68	2883 511.61
132 45 00	2875 726.35	2875 522.25	2875 318.22	2875 114.25	2874 910.35
132 47 30	2867 088.36	2866 893.41	2866 698.53	2866 503.73	2866 308.99
132 50 00	2858 450.28	2858 264.48	2858 078.77	2857 893.11	2857 707.54
132 52 30	2849 812.11	2849 635.47	2849 458.91	2849 282.43	2849 106.01
132 55 00	2841 173.86	2841 006.37	2840 838.97	2840 671.65	2840 504.40
132 57 30	2832 535.52	2832 377.19	2832 218.95	2832 060.79	2831 902.71
133 00 00	2823 897.09	2823 747.92	2823 598.84	2823 449.85	2823 300.93
133 02 30	2815 258.58	2815 118.58	2814 978.66	2814 838.84	2814 699.09
133 05 00	2806 620.00	2806 489.16	2806 358.41	2806 227.75	2806 097.18
133 07 30	2797 981.34	2797 859.66	2797 738.08	2797 616.58	2797 495.19
133 10 00	2789 342.60	2789 230.09	2789 117.67	2789 005.35	2788 893.13
133 12 30	2780 703.80	2780 600.45	2780 497.20	2780 394.06	2780 291.00
133 15 00	2772 064.92	2771 970.74	2771 876.66	2771 782.69	2771 688.81
133 17 30	2763 425.97	2763 340.96	2763 256.06	2763 171.26	2763 086.56
133 20 00	2754 786.96	2754 711.12	2754 635.39	2754 559.77	2754 484.25
133 22 30	2746 147.89	2746 081.22	2746 014.67	2745 948.22	2745 881.89
133 25 00	2737 508.75	2737 451.26	2737 393.88	2737 336.61	2737 279.46
133 27 30	2728 869.57	2728 821.24	2728 773.04	2728 724.95	2728 676.98
133 30 00	2720 230.31	2720 191.17	2720 152.14	2720 113.24	2720 074.45
133 32 30	2711 591.00	2711 561.04	2711 531.19	2711 501.47	2711 471.87
133 35 00	2702 951.65	2702 930.86	2702 910.20	2702 889.67	2702 869.25
133 37 30	2694 312.25	2694 300.64	2694 289.16	2694 277.80	2694 266.58
133 40 00	2685 672.79	2685 670.36	2685 668.06	2685 665.90	2685 663.87
133 42 30	2677 033.29	2677 040.04	2677 046.94	2677 053.96	2677 061.12
133 45 00	2668 393.75	2668 409.68	2668 425.76	2668 441.98	2668 458.32
133 47 30	2659 754.16	2659 779.28	2659 804.55	2659 829.96	2659 855.50
133 50 00	2651 114.54	2651 148.85	2651 183.31	2651 217.91	2651 252.64
133 52 30	2642 474.88	2642 518.38	2642 562.03	2642 605.82	2642 649.75
133 55 00	2633 835.18	2633 887.87	2633 940.71	2633 993.70	2634 046.83
133 57 30	2625 195.46	2625 257.34	2625 319.37	2625 381.56	2625 443.89
134 00 00	2616 555.70	2616 626.77	2616 698.00	2616 769.39	2616 840.92
134 02 30	2607 915.91	2607 996.18	2608 076.60	2608 157.19	2608 237.92
134 05 00	2599 276.11	2599 365.57	2599 455.19	2599 544.98	2599 634.92
134 07 30	2590 636.28	2590 734.93	2590 833.76	2590 932.74	2591 031.88
134 10 00	2581 996.42	2582 104.27	2582 212.30	2582 320.49	2582 428.84
134 12 30	2573 356.55	2573 473.60	2573 590.83	2573 708.23	2573 825.78
134 15 00	2564 716.66	2564 842.91	2564 969.34	2565 095.94	2565 222.71
134 17 30	2556 076.75	2556 212.21	2556 347.85	2556 483.66	2556 619.63
134 20 00	2547 436.84	2547 581.51	2547 726.34	2547 871.36	2548 016.55
134 22 30	2538 796.92	2538 950.78	2539 104.83	2539 259.06	2539 413.46
134 25 00	2530 156.98	2530 320.05	2530 483.32	2530 646.75	2530 810.37
134 27 30	2521 517.05	2521 689.33	2521 861.80	2522 034.45	2522 207.28
134 30 00	2512 877.11	2513 058.60	2513 240.28	2513 422.14	2513 604.19

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	55 30 00	55 32 30	55 35 00	55 37 30	55 40 00
132 00 00	1343 477.70	1358 691.32	1373 905.04	1389 118.85	1404 332.76
132 02 30	1343 271.05	1358 484.89	1373 698.84	1388 912.88	1404 127.00
132 05 00	1343 069.57	1358 283.64	1373 497.81	1388 712.07	1403 926.42
132 07 30	1342 873.27	1358 087.57	1373 301.96	1388 516.43	1403 731.00
132 10 00	1342 682.15	1357 896.67	1373 111.28	1388 325.97	1403 540.76
132 12 30	1342 496.22	1357 710.95	1372 925.78	1388 140.68	1403 355.67
132 15 00	1342 315.47	1357 530.42	1372 745.45	1387 960.56	1403 175.76
132 17 30	1342 139.92	1357 355.07	1372 570.30	1387 785.62	1403 001.02
132 20 00	1341 969.54	1357 184.89	1372 400.34	1387 615.85	1402 831.45
132 22 30	1341 804.35	1357 019.90	1372 235.54	1387 451.25	1402 667.05
132 25 00	1341 644.35	1356 860.10	1372 075.93	1387 291.84	1402 507.82
132 27 30	1341 489.53	1356 705.48	1371 921.50	1387 137.59	1402 353.76
132 30 00	1341 339.91	1356 556.04	1371 772.26	1386 988.53	1402 204.88
132 32 30	1341 195.47	1356 411.80	1371 628.19	1386 844.64	1402 061.17
132 35 00	1341 056.23	1356 272.73	1371 489.30	1386 705.94	1401 922.64
132 37 30	1340 922.18	1356 138.85	1371 355.60	1386 572.41	1401 789.28
132 40 00	1340 793.32	1356 010.17	1371 227.09	1386 444.06	1401 661.10
132 42 30	1340 669.65	1355 886.67	1371 103.75	1386 320.90	1401 538.10
132 45 00	1340 551.17	1355 768.35	1370 985.61	1386 202.91	1401 420.28
132 47 30	1340 437.89	1355 655.24	1370 872.65	1386 090.11	1401 307.63
132 50 00	1340 329.80	1355 547.31	1370 764.88	1385 982.49	1401 200.16
132 52 30	1340 226.91	1355 444.58	1370 662.29	1385 880.06	1401 097.88
132 55 00	1340 129.22	1355 347.03	1370 564.90	1385 782.81	1401 000.78
132 57 30	1340 036.72	1355 254.68	1370 472.70	1385 690.75	1400 908.86
133 00 00	1339 949.42	1355 167.53	1370 385.68	1385 603.87	1400 822.11
133 02 30	1339 867.32	1355 085.56	1370 303.85	1385 522.18	1400 740.55
133 05 00	1339 790.42	1355 008.80	1370 227.22	1385 445.68	1400 664.18
133 07 30	1339 718.72	1354 937.23	1370 155.79	1385 374.37	1400 593.00
133 10 00	1339 652.22	1354 870.86	1370 089.54	1385 308.25	1400 526.99
133 12 30	1339 590.92	1354 809.69	1370 028.48	1385 247.31	1400 466.18
133 15 00	1339 534.83	1354 753.72	1369 972.63	1385 191.57	1400 410.55
133 17 30	1339 483.94	1354 702.94	1369 921.97	1385 141.03	1400 360.11
133 20 00	1339 438.26	1354 657.37	1369 876.51	1385 095.67	1400 314.86
133 22 30	1339 397.77	1354 617.00	1369 836.24	1385 055.50	1400 274.80
133 25 00	1339 362.50	1354 581.82	1369 801.17	1385 020.53	1400 239.93
133 27 30	1339 332.43	1354 551.85	1369 771.30	1384 990.76	1400 210.25
133 30 00	1339 307.57	1354 527.09	1369 746.63	1384 966.18	1400 185.76
133 32 30	1339 287.92	1354 507.53	1369 727.16	1384 946.80	1400 166.46
133 35 00	1339 273.47	1354 493.18	1369 712.89	1384 932.62	1400 152.36
133 37 30	1339 264.23	1354 484.03	1369 703.83	1384 923.63	1400 143.46
133 40 00	1339 260.22	1354 480.08	1369 699.96	1384 919.85	1400 139.74
133 42 30	1339 261.40	1354 481.35	1369 701.31	1384 921.26	1400 141.22
133 45 00	1339 267.80	1354 487.82	1369 707.85	1384 927.87	1400 147.90
133 47 30	1339 279.41	1354 499.50	1369 719.60	1384 939.68	1400 159.78
133 50 00	1339 296.24	1354 516.40	1369 736.55	1384 956.70	1400 176.85
133 52 30	1339 318.28	1354 538.50	1369 758.71	1384 978.92	1400 199.12
133 55 00	1339 345.54	1354 565.81	1369 786.08	1385 006.34	1400 226.60
133 57 30	1339 378.01	1354 598.34	1369 818.66	1385 038.96	1400 259.27
134 00 00	1339 415.70	1354 636.07	1369 856.45	1385 076.80	1400 297.15
134 02 30	1339 458.61	1354 679.03	1369 899.44	1385 119.83	1400 340.22
134 05 00	1339 506.74	1354 727.20	1369 947.65	1385 168.08	1400 388.50
134 07 30	1339 560.08	1354 780.58	1370 001.06	1385 221.53	1400 441.98
134 10 00	1339 618.64	1354 839.18	1370 059.69	1385 280.19	1400 500.66
134 12 30	1339 682.43	1354 902.99	1370 123.54	1385 344.05	1400 564.55
134 15 00	1339 751.44	1354 972.03	1370 192.59	1385 413.13	1400 633.65
134 17 30	1339 825.67	1355 046.28	1370 266.86	1385 487.42	1400 707.95
134 20 00	1339 905.12	1355 125.75	1370 346.35	1385 566.92	1400 787.46
134 22 30	1339 989.79	1355 210.44	1370 431.05	1385 651.63	1400 872.18
134 25 00	1340 079.70	1355 300.35	1370 520.97	1385 741.56	1400 962.11
134 27 30	1340 174.83	1355 395.48	1370 616.11	1385 836.69	1401 057.24
134 30 00	1340 275.18	1355 495.84	1370 716.46	1385 937.04	1401 157.58

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.42	-.47	-.51	-.55	-.58	-.60	-.62	-.64	-.65	-.65

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	55 40 00	55 42 30	55 45 00	55 47 30	55 50 00
129 30 00	3545 376.00	3544 461.30	3543 546.41	3542 631.30	3541 716.00
129 32 30	3536 787.87	3535 882.24	3534 976.41	3534 070.38	3533 164.16
129 35 00	3528 199.49	3527 302.92	3526 406.17	3525 509.21	3524 612.06
129 37 30	3519 610.86	3518 723.36	3517 835.68	3516 947.80	3516 059.73
129 40 00	3511 022.00	3510 143.57	3509 264.96	3508 386.15	3507 507.15
129 42 30	3502 432.88	3501 563.52	3500 693.98	3499 824.26	3498 954.34
129 45 00	3493 843.53	3492 983.24	3492 122.78	3491 262.13	3490 401.29
129 47 30	3485 253.94	3484 402.72	3483 551.34	3482 699.77	3481 848.02
129 50 00	3476 664.11	3475 821.97	3474 979.65	3474 137.16	3473 294.50
129 52 30	3468 074.04	3467 240.98	3466 407.75	3465 574.34	3464 740.76
129 55 00	3459 483.75	3458 659.76	3457 835.60	3457 011.28	3456 186.79
129 57 30	3450 893.22	3450 078.31	3449 263.24	3448 447.99	3447 632.59
130 00 00	3442 302.47	3441 496.63	3440 690.64	3439 884.49	3439 078.17
130 02 30	3433 711.49	3432 914.74	3432 117.82	3431 320.76	3430 523.54
130 05 00	3425 120.29	3424 332.61	3423 544.79	3422 756.81	3421 968.67
130 07 30	3416 528.86	3415 750.26	3414 971.52	3414 192.64	3413 413.59
130 10 00	3407 937.21	3407 167.70	3406 398.05	3405 628.26	3404 858.31
130 12 30	3399 345.34	3398 584.92	3397 824.36	3397 063.66	3396 302.80
130 15 00	3390 753.26	3390 001.92	3389 250.45	3388 498.84	3387 747.08
130 17 30	3382 160.97	3381 418.72	3380 676.33	3379 933.81	3379 191.15
130 20 00	3373 568.46	3372 835.29	3372 102.01	3371 368.58	3370 635.02
130 22 30	3364 975.74	3364 251.66	3363 527.46	3362 803.13	3362 078.68
130 25 00	3356 382.81	3355 667.84	3354 952.73	3354 237.50	3353 522.13
130 27 30	3347 789.68	3347 083.79	3346 377.78	3345 671.65	3344 965.39
130 30 00	3339 196.34	3338 499.54	3337 802.64	3337 105.61	3336 408.44
130 32 30	3330 602.80	3329 915.10	3329 227.29	3328 539.36	3327 851.31
130 35 00	3322 009.06	3321 330.45	3320 651.74	3319 972.91	3319 293.97
130 37 30	3313 415.12	3312 745.61	3312 076.00	3311 406.28	3310 736.44
130 40 00	3304 820.99	3304 160.58	3303 500.07	3302 839.45	3302 178.72
130 42 30	3296 226.66	3295 575.35	3294 923.94	3294 272.43	3293 620.81
130 45 00	3287 632.14	3286 989.93	3286 347.62	3285 705.22	3285 062.71
130 47 30	3279 037.43	3278 404.33	3277 771.13	3277 137.83	3276 504.44
130 50 00	3270 442.54	3269 818.53	3269 194.44	3268 570.26	3267 945.98
130 52 30	3261 847.45	3261 232.55	3260 617.57	3260 002.50	3259 387.33
130 55 00	3253 252.19	3252 646.40	3252 040.52	3251 434.56	3250 828.50
130 57 30	3244 656.74	3244 060.05	3243 463.29	3242 866.44	3242 269.51
131 00 00	3236 061.11	3235 473.53	3234 885.88	3234 298.15	3233 710.33
131 02 30	3227 465.30	3226 886.84	3226 308.30	3225 729.68	3225 150.99
131 05 00	3218 869.32	3218 299.97	3217 730.55	3217 161.05	3216 591.47
131 07 30	3210 273.17	3209 712.93	3209 152.62	3208 592.25	3208 031.79
131 10 00	3201 676.85	3201 125.72	3200 574.53	3200 023.27	3199 471.94
131 12 30	3193 080.35	3192 538.34	3191 996.26	3191 454.13	3190 911.92
131 15 00	3184 483.69	3183 950.79	3183 417.85	3182 884.83	3182 351.75
131 17 30	3175 886.87	3175 363.08	3174 839.26	3174 315.37	3173 791.41
131 20 00	3167 289.87	3166 775.21	3166 260.50	3165 745.74	3165 230.92
131 22 30	3158 692.72	3158 187.19	3157 681.60	3157 175.96	3156 670.27
131 25 00	3150 095.42	3149 599.00	3149 102.54	3148 606.03	3148 109.46
131 27 30	3141 497.95	3141 010.66	3140 523.32	3140 035.94	3139 548.51
131 30 00	3132 900.34	3132 422.16	3131 943.95	3131 465.70	3130 987.40
131 32 30	3124 302.56	3123 833.52	3123 364.43	3122 895.31	3122 426.15
131 35 00	3115 704.63	3115 244.71	3114 784.76	3114 324.78	3113 864.75
131 37 30	3107 106.57	3106 655.77	3106 204.96	3105 754.10	3105 303.22
131 40 00	3098 508.34	3098 066.68	3097 625.00	3097 183.28	3096 741.53
131 42 30	3089 909.98	3089 477.45	3089 044.90	3088 612.32	3088 179.71
131 45 00	3081 311.49	3080 888.08	3080 464.67	3080 041.23	3079 617.76
131 47 30	3072 712.84	3072 298.57	3071 884.29	3071 469.99	3071 055.66
131 50 00	3064 114.06	3063 708.93	3063 303.78	3062 898.62	3062 493.44
131 52 30	3055 515.15	3055 119.15	3054 723.14	3054 327.12	3053 931.09
131 55 00	3046 916.09	3046 529.23	3046 142.37	3045 755.49	3045 368.60
131 57 30	3038 316.91	3037 939.19	3037 561.46	3037 183.73	3036 805.99
132 00 00	3029 717.60	3029 349.02	3028 980.44	3028 611.86	3028 243.26

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.01	+.02	+.02	+.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	55 40 00	55 42 30	55 45 00	55 47 30	55 50 00
129 30 00	1426 104.40	1441 298.36	1456 492.53	1471 686.91	1486 881.52
129 32 30	1425 590.01	1440 784.41	1455 979.01	1471 173.83	1486 368.87
129 35 00	1425 080.73	1440 275.56	1455 470.61	1470 665.86	1485 861.34
129 37 30	1424 576.58	1439 771.85	1454 967.32	1470 163.00	1485 358.91
129 40 00	1424 077.56	1439 273.25	1454 469.15	1469 665.26	1484 861.59
129 42 30	1423 583.66	1438 779.78	1453 976.10	1469 172.64	1484 369.39
129 45 00	1423 094.88	1438 291.43	1453 488.17	1468 685.13	1483 882.29
129 47 30	1422 611.24	1437 808.20	1453 005.36	1468 202.73	1483 400.31
129 50 00	1422 132.71	1437 330.09	1452 527.67	1467 725.45	1482 923.44
129 52 30	1421 659.32	1436 857.11	1452 055.10	1467 253.30	1482 451.69
129 55 00	1421 191.06	1436 389.26	1451 587.66	1466 786.25	1481 985.05
129 57 30	1420 727.92	1435 926.53	1451 125.33	1466 324.33	1481 523.53
130 00 00	1420 269.92	1435 468.93	1450 668.13	1465 867.53	1481 067.12
130 02 30	1419 817.05	1435 016.45	1450 216.05	1465 415.84	1480 615.83
130 05 00	1419 369.31	1434 569.11	1449 769.10	1464 969.27	1480 169.65
130 07 30	1418 926.70	1434 126.89	1449 327.27	1464 527.84	1479 728.60
130 10 00	1418 489.23	1433 689.80	1448 890.57	1464 091.52	1479 292.66
130 12 30	1418 056.89	1433 257.85	1448 458.99	1463 660.32	1478 861.85
130 15 00	1417 629.67	1432 831.01	1448 032.54	1463 234.24	1478 436.14
130 17 30	1417 207.61	1432 409.32	1447 611.22	1462 813.30	1478 015.57
130 20 00	1416 790.66	1431 992.76	1447 195.03	1462 397.47	1477 600.11
130 22 30	1416 378.87	1431 581.33	1446 783.97	1461 986.78	1477 189.78
130 25 00	1415 972.20	1431 175.03	1446 378.03	1461 581.20	1476 784.57
130 27 30	1415 570.68	1430 773.87	1445 977.23	1461 180.76	1476 384.48
130 30 00	1415 174.30	1430 377.84	1445 581.55	1460 785.44	1475 989.52
130 32 30	1414 783.05	1429 986.94	1445 191.02	1460 395.26	1475 599.68
130 35 00	1414 396.93	1429 601.19	1444 805.61	1460 010.20	1475 214.97
130 37 30	1414 015.97	1429 220.57	1444 425.34	1459 630.27	1474 835.38
130 40 00	1413 640.15	1428 845.09	1444 050.20	1459 255.47	1474 460.92
130 42 30	1413 269.47	1428 474.74	1443 680.19	1458 885.80	1474 091.59
130 45 00	1412 903.92	1428 109.55	1443 315.33	1458 521.27	1473 727.38
130 47 30	1412 543.53	1427 749.48	1442 955.60	1458 161.86	1473 368.30
130 50 00	1412 188.28	1427 394.56	1442 601.00	1457 807.60	1473 014.36
130 52 30	1411 838.17	1427 044.78	1442 251.54	1457 458.46	1472 665.55
130 55 00	1411 493.21	1426 700.14	1441 907.22	1457 114.46	1472 321.87
130 57 30	1411 153.40	1426 360.64	1441 568.05	1456 775.60	1471 983.31
131 00 00	1410 818.73	1426 026.29	1441 234.01	1456 441.87	1471 649.89
131 02 30	1410 489.21	1425 697.08	1440 905.11	1456 113.28	1471 321.60
131 05 00	1410 164.84	1425 373.02	1440 581.35	1455 789.82	1470 998.45
131 07 30	1409 845.62	1425 054.11	1440 262.74	1455 471.51	1470 680.44
131 10 00	1409 531.55	1424 740.33	1439 949.26	1455 158.33	1470 367.56
131 12 30	1409 222.63	1424 431.71	1439 640.93	1454 850.30	1470 059.81
131 15 00	1408 918.86	1424 128.23	1439 337.74	1454 547.40	1469 757.20
131 17 30	1408 620.24	1423 829.90	1439 039.70	1454 249.64	1469 459.73
131 20 00	1408 326.78	1423 536.73	1438 746.81	1453 957.03	1469 167.39
131 22 30	1408 038.47	1423 248.70	1438 459.06	1453 669.56	1468 880.20
131 25 00	1407 755.31	1422 965.82	1438 176.46	1453 387.23	1468 598.15
131 27 30	1407 477.31	1422 688.09	1437 899.00	1453 110.05	1468 321.23
131 30 00	1407 204.47	1422 415.52	1437 626.70	1452 838.01	1468 049.46
131 32 30	1406 936.78	1422 148.10	1437 359.55	1452 571.12	1467 782.83
131 35 00	1406 674.25	1421 885.83	1437 097.54	1452 309.37	1467 521.33
131 37 30	1406 416.88	1421 628.72	1436 840.69	1452 052.78	1467 264.98
131 40 00	1406 164.66	1421 376.76	1436 588.98	1451 801.32	1467 013.78
131 42 30	1405 917.61	1421 129.96	1436 342.43	1451 555.02	1466 767.73
131 45 00	1405 675.72	1420 888.32	1436 101.03	1451 313.86	1466 526.81
131 47 30	1405 438.98	1420 651.83	1435 864.78	1451 077.85	1466 291.04
131 50 00	1405 207.41	1420 420.50	1435 633.69	1450 847.00	1466 060.42
131 52 30	1404 981.01	1420 194.33	1435 407.76	1450 621.30	1465 834.96
131 55 00	1404 759.76	1419 973.31	1435 186.98	1450 400.74	1465 614.63
131 57 30	1404 543.67	1419 757.46	1434 971.35	1450 185.34	1465 399.45
132 00 00	1404 332.76	1419 546.77	1434 760.88	1449 975.10	1465 189.43

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	55 40 00	55 42 30	55 45 00	55 47 30	55 50 00
132 00 00	3029 717.60	3029 349.02	3028 980.44	3028 611.86	3028 243.26
132 02 30	3021 118.16	3020 758.73	3020 399.28	3020 039.85	3019 680.40
132 05 00	3012 518.60	3012 168.30	3011 818.01	3011 467.72	3011 117.43
132 07 30	3003 918.92	3003 577.76	3003 236.62	3002 895.48	3002 554.34
132 10 00	2995 319.11	2994 987.10	2994 655.10	2994 323.11	2993 991.13
132 12 30	2986 719.18	2986 396.32	2986 073.47	2985 750.63	2985 427.81
132 15 00	2978 119.15	2977 805.43	2977 491.73	2977 178.05	2976 864.37
132 17 30	2969 518.99	2969 214.42	2968 909.87	2968 605.34	2968 300.83
132 20 00	2960 918.72	2960 623.30	2960 327.91	2960 032.53	2959 737.18
132 22 30	2952 318.34	2952 032.08	2951 745.84	2951 459.63	2951 173.43
132 25 00	2943 717.86	2943 440.74	2943 163.66	2942 886.60	2942 609.57
132 27 30	2935 117.26	2934 849.30	2934 581.37	2934 313.48	2934 045.61
132 30 00	2926 516.57	2926 257.77	2925 999.00	2925 740.26	2925 481.56
132 32 30	2917 915.77	2917 666.12	2917 416.52	2917 166.94	2916 917.41
132 35 00	2909 314.88	2909 074.39	2908 833.94	2908 593.53	2908 353.16
132 37 30	2900 713.88	2900 482.56	2900 251.27	2900 020.03	2899 788.83
132 40 00	2892 112.80	2891 890.62	2891 668.50	2891 446.43	2891 224.39
132 42 30	2883 511.61	2883 298.61	2883 085.65	2882 872.74	2882 659.88
132 45 00	2874 910.35	2874 706.50	2874 502.71	2874 298.98	2874 095.29
132 47 30	2866 308.99	2866 114.30	2865 919.68	2865 725.11	2865 530.60
132 50 00	2857 707.54	2857 522.02	2857 336.57	2857 151.18	2856 965.83
132 52 30	2849 106.01	2848 929.66	2848 753.38	2848 577.16	2848 400.99
132 55 00	2840 504.40	2840 337.22	2840 170.11	2840 003.06	2839 836.07
132 57 30	2831 902.71	2831 744.70	2831 586.76	2831 428.89	2831 271.08
133 00 00	2823 300.93	2823 152.10	2823 003.33	2822 854.65	2822 706.01
133 02 30	2814 699.09	2814 559.42	2814 419.84	2814 280.32	2814 140.87
133 05 00	2806 097.18	2805 966.68	2805 836.27	2805 705.94	2805 575.67
133 07 30	2797 495.19	2797 373.87	2797 252.63	2797 131.48	2797 010.40
133 10 00	2788 893.13	2788 780.99	2788 668.94	2788 556.97	2788 445.07
133 12 30	2780 291.00	2780 188.05	2780 085.17	2779 982.38	2779 879.67
133 15 00	2771 688.81	2771 595.03	2771 501.34	2771 407.74	2771 314.22
133 17 30	2763 086.56	2763 001.96	2762 917.46	2762 833.04	2762 748.71
133 20 00	2754 484.25	2754 408.83	2754 333.51	2754 258.28	2754 183.15
133 22 30	2745 881.89	2745 815.65	2745 749.51	2745 683.48	2745 617.53
133 25 00	2737 279.46	2737 222.41	2737 165.46	2737 108.61	2737 051.86
133 27 30	2728 676.98	2728 629.12	2728 581.36	2728 533.70	2728 486.14
133 30 00	2720 074.45	2720 035.77	2719 997.21	2719 958.74	2719 920.38
133 32 30	2711 471.87	2711 442.38	2711 413.01	2711 383.74	2711 354.57
133 35 00	2702 869.25	2702 848.95	2702 828.77	2702 808.70	2702 788.73
133 37 30	2694 266.58	2694 255.47	2694 244.48	2694 233.61	2694 222.84
133 40 00	2685 663.87	2685 661.95	2685 660.16	2685 658.48	2685 656.92
133 42 30	2677 061.12	2677 068.40	2677 075.80	2677 083.33	2677 090.96
133 45 00	2668 458.32	2668 474.80	2668 491.41	2668 508.12	2668 524.96
133 47 30	2659 855.50	2659 881.17	2659 906.97	2659 932.90	2659 958.95
133 50 00	2651 252.64	2651 287.52	2651 322.52	2651 357.65	2651 392.90
133 52 30	2642 649.75	2642 693.82	2642 738.03	2642 782.37	2642 826.83
133 55 00	2634 046.83	2634 100.11	2634 153.51	2634 207.05	2634 260.73
133 57 30	2625 443.89	2625 506.37	2625 568.98	2625 631.73	2625 694.61
134 00 00	2616 840.92	2616 912.60	2616 984.42	2617 056.38	2617 128.47
134 02 30	2608 237.92	2608 318.81	2608 399.84	2608 481.00	2608 562.32
134 05 00	2599 634.92	2599 725.01	2599 815.24	2599 905.63	2599 996.15
134 07 30	2591 031.88	2591 131.18	2591 230.63	2591 330.22	2591 429.96
134 10 00	2582 428.84	2582 537.34	2582 646.01	2582 754.81	2582 863.77
134 12 30	2573 825.78	2573 943.50	2574 061.37	2574 179.40	2574 297.58
134 15 00	2565 222.71	2565 349.64	2565 476.73	2565 603.97	2565 731.36
134 17 30	2556 619.63	2556 755.78	2556 892.08	2557 028.54	2557 165.16
134 20 00	2548 016.55	2548 161.91	2548 307.43	2548 453.12	2548 598.95
134 22 30	2539 413.46	2539 568.03	2539 722.78	2539 877.68	2540 032.74
134 25 00	2530 810.37	2530 974.16	2531 138.12	2531 302.25	2531 466.54
134 27 30	2522 207.28	2522 380.30	2522 553.48	2522 726.83	2522 900.34
134 30 00	2513 604.19	2513 786.43	2513 968.83	2514 151.41	2514 334.15

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	55 40 00	55 42 30	55 45 00	55 47 30	55 50 00
132 00 00	1404 332.76	1419 546.77	1434 760.88	1449 975.10	1465 189.43
132 02 30	1404 127.00	1419 341.24	1434 555.58	1449 770.01	1464 984.55
132 05 00	1403 926.42	1419 140.87	1434 355.43	1449 570.07	1464 784.83
132 07 30	1403 731.00	1418 945.67	1434 160.43	1449 375.29	1464 590.26
132 10 00	1403 540.76	1418 755.63	1433 970.60	1449 185.67	1464 400.83
132 12 30	1403 355.67	1418 570.76	1433 785.93	1449 001.20	1464 216.57
132 15 00	1403 175.76	1418 391.04	1433 606.42	1448 821.89	1464 037.45
132 17 30	1403 001.02	1418 216.50	1433 432.08	1448 647.74	1463 863.50
132 20 00	1402 831.45	1418 047.13	1433 262.89	1448 478.75	1463 694.69
132 22 30	1402 667.05	1417 882.92	1433 098.87	1448 314.92	1463 531.05
132 25 00	1402 507.82	1417 723.88	1432 940.02	1448 156.24	1463 372.56
132 27 30	1402 353.76	1417 570.01	1432 786.33	1448 002.73	1463 219.22
132 30 00	1402 204.88	1417 421.31	1432 637.81	1447 854.39	1463 071.05
132 32 30	1402 061.17	1417 277.77	1432 494.45	1447 711.20	1462 928.04
132 35 00	1401 922.64	1417 139.41	1432 356.26	1447 573.18	1462 790.18
132 37 30	1401 789.28	1417 006.23	1432 223.24	1447 440.32	1462 657.49
132 40 00	1401 661.10	1416 878.21	1432 095.39	1447 312.63	1462 529.96
132 42 30	1401 538.10	1416 755.37	1431 972.70	1447 190.10	1462 407.59
132 45 00	1401 420.28	1416 637.70	1431 855.19	1447 072.75	1462 290.37
132 47 30	1401 307.63	1416 525.21	1431 742.85	1446 960.55	1462 178.33
132 50 00	1401 200.16	1416 417.90	1431 635.68	1446 853.54	1462 071.45
132 52 30	1401 097.88	1416 315.76	1431 533.69	1446 751.68	1461 969.74
132 55 00	1401 000.78	1416 218.79	1431 436.86	1446 655.00	1461 873.19
132 57 30	1400 908.86	1416 127.01	1431 345.22	1446 563.48	1461 781.80
133 00 00	1400 822.11	1416 040.40	1431 258.74	1446 477.13	1461 695.58
133 02 30	1400 740.55	1415 958.98	1431 177.44	1446 395.96	1461 614.54
133 05 00	1400 664.18	1415 882.73	1431 101.32	1446 319.96	1461 538.66
133 07 30	1400 593.00	1415 811.67	1431 030.38	1446 249.14	1461 467.95
133 10 00	1400 526.99	1415 745.78	1430 964.61	1446 183.48	1461 402.41
133 12 30	1400 466.18	1415 685.08	1430 904.02	1446 123.01	1461 342.04
133 15 00	1400 410.55	1415 629.57	1430 848.62	1446 067.71	1461 286.84
133 17 30	1400 360.11	1415 579.24	1430 798.39	1446 017.58	1461 236.82
133 20 00	1400 314.86	1415 534.09	1430 753.35	1445 972.63	1461 191.97
133 22 30	1400 274.80	1415 494.13	1430 713.48	1445 932.86	1461 152.29
133 25 00	1400 239.93	1415 459.35	1430 678.79	1445 898.27	1461 117.78
133 27 30	1400 210.25	1415 429.76	1430 649.29	1445 868.85	1461 088.46
133 30 00	1400 185.76	1415 405.36	1430 624.98	1445 844.62	1461 064.30
133 32 30	1400 166.46	1415 386.15	1430 605.85	1445 825.57	1461 045.33
133 35 00	1400 152.36	1415 372.13	1430 591.90	1445 811.70	1461 031.53
133 37 30	1400 143.46	1415 363.29	1430 583.15	1445 803.01	1461 022.91
133 40 00	1400 139.74	1415 359.65	1430 579.57	1445 799.51	1461 019.47
133 42 30	1400 141.22	1415 361.20	1430 581.19	1445 801.18	1461 021.21
133 45 00	1400 147.90	1415 367.94	1430 587.99	1445 808.05	1461 028.13
133 47 30	1400 159.78	1415 379.88	1430 599.99	1445 820.10	1461 040.23
133 50 00	1400 176.85	1415 397.01	1430 617.17	1445 837.33	1461 057.51
133 52 30	1400 199.12	1415 419.33	1430 639.54	1445 859.75	1461 079.98
133 55 00	1400 226.60	1415 446.85	1430 667.10	1445 887.37	1461 107.63
133 57 30	1400 259.27	1415 479.57	1430 699.86	1445 920.16	1461 140.47
134 00 00	1400 297.15	1415 517.48	1430 737.81	1445 958.14	1461 178.48
134 02 30	1400 340.22	1415 560.60	1430 780.96	1446 001.33	1461 221.69
134 05 00	1400 388.50	1415 608.91	1430 829.30	1446 049.69	1461 270.08
134 07 30	1400 441.98	1415 662.41	1430 882.84	1446 103.25	1461 323.66
134 10 00	1400 500.66	1415 721.12	1430 941.57	1446 162.00	1461 382.43
134 12 30	1400 564.55	1415 785.03	1431 005.49	1446 225.94	1461 446.38
134 15 00	1400 633.65	1415 854.14	1431 074.62	1446 295.08	1461 515.53
134 17 30	1400 707.95	1415 928.46	1431 148.95	1446 369.41	1461 589.87
134 20 00	1400 787.46	1416 007.98	1431 228.47	1446 448.93	1461 669.40
134 22 30	1400 872.18	1416 092.70	1431 313.19	1446 533.66	1461 754.11
134 25 00	1400 962.11	1416 182.63	1431 403.12	1446 623.58	1461 844.02
134 27 30	1401 057.24	1416 277.75	1431 498.24	1446 718.69	1461 939.13
134 30 00	1401 157.58	1416 378.09	1431 598.56	1446 819.01	1462 039.43

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.42	-.47	-.51	-.55	-.58	-.60	-.62	-.64	-.65	-.65

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	55 50 00	55 52 30	55 55 00	55 57 30	56 00 00
129 30 00	3541 716.00	3540 800.49	3539 884.76	3538 968.82	3538 052.65
129 32 30	3533 164.16	3532 257.73	3531 351.08	3530 444.22	3529 537.14
129 35 00	3524 612.06	3523 714.70	3522 817.15	3521 919.38	3521 021.39
129 37 30	3516 059.73	3515 171.45	3514 282.98	3513 394.29	3512 505.40
129 40 00	3507 507.15	3506 627.96	3505 748.58	3504 868.98	3503 989.18
129 42 30	3498 954.34	3498 084.24	3497 213.94	3496 343.43	3495 472.72
129 45 00	3490 401.29	3489 540.27	3488 679.06	3487 817.65	3486 956.03
129 47 30	3481 848.02	3480 996.08	3480 143.96	3479 291.64	3478 439.13
129 50 00	3473 294.50	3472 451.65	3471 608.62	3470 765.40	3469 921.98
129 52 30	3464 740.76	3463 907.00	3463 073.06	3462 238.93	3461 404.61
129 55 00	3456 186.79	3455 362.12	3454 537.27	3453 712.25	3452 887.03
129 57 30	3447 632.59	3446 817.02	3446 001.26	3445 185.33	3444 369.21
130 00 00	3439 078.17	3438 271.68	3437 465.03	3436 658.19	3435 851.18
130 02 30	3430 523.54	3429 726.14	3428 928.58	3428 130.85	3427 332.94
130 05 00	3421 968.67	3421 180.38	3420 391.91	3419 603.28	3418 814.48
130 07 30	3413 413.59	3412 634.39	3411 855.03	3411 075.50	3410 295.80
130 10 00	3404 858.31	3404 088.20	3403 317.94	3402 547.51	3401 776.92
130 12 30	3396 302.80	3395 541.79	3394 780.63	3394 019.31	3393 257.83
130 15 00	3387 747.08	3386 995.17	3386 243.12	3385 490.90	3384 738.53
130 17 30	3379 191.15	3378 448.35	3377 705.39	3376 962.29	3376 219.03
130 20 00	3370 635.02	3369 901.31	3369 167.47	3368 433.47	3367 699.32
130 22 30	3362 078.68	3361 354.07	3360 629.33	3359 904.45	3359 179.41
130 25 00	3353 522.13	3352 806.64	3352 091.01	3351 375.23	3350 659.31
130 27 30	3344 965.39	3344 259.00	3343 552.47	3342 845.81	3342 139.00
130 30 00	3336 408.44	3335 711.16	3335 013.75	3334 316.20	3333 618.50
130 32 30	3327 851.31	3327 163.13	3326 474.82	3325 786.39	3325 097.82
130 35 00	3319 293.97	3318 614.90	3317 935.71	3317 256.39	3316 576.94
130 37 30	3310 736.44	3310 066.48	3309 396.41	3308 726.20	3308 055.87
130 40 00	3302 178.72	3301 517.88	3300 856.92	3300 195.83	3299 534.62
130 42 30	3293 620.81	3292 969.08	3292 317.24	3291 665.27	3291 013.19
130 45 00	3285 062.71	3284 420.10	3283 777.37	3283 134.53	3282 491.56
130 47 30	3276 504.44	3275 870.93	3275 237.32	3274 603.60	3273 969.76
130 50 00	3267 945.98	3267 321.59	3266 697.10	3266 072.50	3265 447.79
130 52 30	3259 387.33	3258 772.06	3258 156.70	3257 541.22	3256 925.64
130 55 00	3250 828.50	3250 222.36	3249 616.12	3249 009.77	3248 403.31
130 57 30	3242 269.51	3241 672.48	3241 075.36	3240 478.14	3239 880.81
131 00 00	3233 710.33	3233 122.43	3232 534.43	3231 946.34	3231 358.15
131 02 30	3225 150.99	3224 572.21	3223 993.34	3223 414.38	3222 835.31
131 05 00	3216 591.47	3216 021.81	3215 452.08	3214 882.24	3214 312.31
131 07 30	3208 031.79	3207 471.26	3206 910.65	3206 349.95	3205 789.16
131 10 00	3199 471.94	3198 920.53	3198 369.05	3197 817.48	3197 265.83
131 12 30	3190 911.92	3190 369.64	3189 827.29	3189 284.86	3188 742.34
131 15 00	3182 351.75	3181 818.60	3181 285.38	3180 752.08	3180 218.71
131 17 30	3173 791.41	3173 267.39	3172 743.31	3172 219.15	3171 694.91
131 20 00	3165 230.92	3164 716.03	3164 201.08	3163 686.06	3163 170.96
131 22 30	3156 670.27	3156 164.52	3155 658.70	3155 152.82	3154 646.87
131 25 00	3148 109.46	3147 612.85	3147 116.17	3146 619.43	3146 122.62
131 27 30	3139 548.51	3139 061.03	3138 573.49	3138 085.89	3137 598.22
131 30 00	3130 987.40	3130 509.06	3130 030.66	3129 552.21	3129 073.68
131 32 30	3122 426.15	3121 956.95	3121 487.68	3121 018.37	3120 549.00
131 35 00	3113 864.75	3113 404.69	3112 944.57	3112 484.40	3112 024.18
131 37 30	3105 303.22	3104 852.29	3104 401.32	3103 950.30	3103 499.23
131 40 00	3096 741.53	3096 299.75	3095 857.92	3095 416.05	3094 974.13
131 42 30	3088 179.71	3087 747.07	3087 314.38	3086 881.67	3086 448.90
131 45 00	3079 617.76	3079 194.26	3078 770.73	3078 347.15	3077 923.54
131 47 30	3071 055.66	3070 641.31	3070 226.93	3069 812.51	3069 398.05
131 50 00	3062 493.44	3062 088.23	3061 683.00	3061 277.73	3060 872.43
131 52 30	3053 931.09	3053 535.03	3053 138.95	3052 742.83	3052 346.69
131 55 00	3045 368.60	3044 981.69	3044 594.76	3044 207.81	3043 820.83
131 57 30	3036 805.99	3036 428.23	3036 050.46	3035 672.66	3035 294.83
132 00 00	3028 243.26	3027 874.66	3027 506.04	3027 137.39	3026 768.73

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.01	+.02	+.02	+.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	55 50 00	55 52 30	55 55 00	55 57 30	56 00 00
129 30 00	1486 881.52	1502 076.35	1517 271.40	1532 466.69	1547 662.20
129 32 30	1486 368.87	1501 564.14	1516 759.62	1531 955.34	1547 151.28
129 35 00	1485 861.34	1501 057.03	1516 252.95	1531 449.09	1546 645.45
129 37 30	1485 358.91	1500 555.03	1515 751.37	1530 947.93	1546 144.72
129 40 00	1484 861.59	1500 058.14	1515 254.90	1530 451.88	1545 649.08
129 42 30	1484 369.39	1499 566.35	1514 763.53	1529 960.93	1545 158.55
129 45 00	1483 882.29	1499 079.67	1514 277.27	1529 475.08	1544 673.11
129 47 30	1483 400.31	1498 598.11	1513 796.11	1528 994.33	1544 192.77
129 50 00	1482 923.44	1498 121.65	1513 320.05	1528 518.68	1543 717.53
129 52 30	1482 451.69	1497 650.30	1512 849.11	1528 048.14	1543 247.38
129 55 00	1481 985.05	1497 184.06	1512 383.28	1527 582.70	1542 782.34
129 57 30	1481 523.53	1496 722.94	1511 922.55	1527 122.37	1542 322.40
130 00 00	1481 067.12	1496 266.92	1511 466.93	1526 667.14	1541 867.56
130 02 30	1480 615.83	1495 816.02	1511 016.41	1526 217.01	1541 417.82
130 05 00	1480 169.65	1495 370.23	1510 571.01	1525 772.00	1540 973.19
130 07 30	1479 728.60	1494 929.56	1510 130.73	1525 332.09	1540 533.66
130 10 00	1479 292.66	1494 494.01	1509 695.55	1524 897.28	1540 099.23
130 12 30	1478 861.85	1494 063.56	1509 265.48	1524 467.59	1539 669.91
130 15 00	1478 436.14	1493 638.24	1508 840.52	1524 043.01	1539 245.69
130 17 30	1478 015.57	1493 218.03	1508 420.68	1523 623.53	1538 826.58
130 20 00	1477 600.11	1492 802.94	1508 005.96	1523 209.17	1538 412.58
130 22 30	1477 189.78	1492 392.97	1507 596.35	1522 799.92	1538 003.68
130 25 00	1476 784.57	1491 988.12	1507 191.85	1522 395.77	1537 599.89
130 27 30	1476 384.48	1491 588.38	1506 792.47	1521 996.75	1537 201.21
130 30 00	1475 989.52	1491 193.77	1506 398.21	1521 602.83	1536 807.64
130 32 30	1475 599.68	1490 804.28	1506 009.06	1521 214.03	1536 419.19
130 35 00	1475 214.97	1490 419.91	1505 625.03	1520 830.34	1536 035.84
130 37 30	1474 835.38	1490 040.66	1505 246.13	1520 451.78	1535 657.60
130 40 00	1474 460.92	1489 666.54	1504 872.34	1520 078.32	1535 284.48
130 42 30	1474 091.59	1489 297.54	1504 503.67	1519 709.98	1534 916.46
130 45 00	1473 727.38	1488 933.67	1504 140.12	1519 346.76	1534 553.57
130 47 30	1473 368.30	1488 574.92	1503 781.69	1518 988.65	1534 195.78
130 50 00	1473 014.36	1488 221.30	1503 428.40	1518 635.67	1533 843.12
130 52 30	1472 665.55	1487 872.80	1503 080.22	1518 287.80	1533 495.56
130 55 00	1472 321.87	1487 529.43	1502 737.16	1517 945.05	1533 153.12
130 57 30	1471 983.31	1487 191.19	1502 399.23	1517 607.43	1532 815.81
131 00 00	1471 649.89	1486 858.08	1502 066.42	1517 274.93	1532 483.60
131 02 30	1471 321.60	1486 530.09	1501 738.74	1516 947.55	1532 156.52
131 05 00	1470 998.45	1486 207.24	1501 416.18	1516 625.29	1531 834.56
131 07 30	1470 680.44	1485 889.52	1501 098.76	1516 308.16	1531 517.71
131 10 00	1470 367.56	1485 576.93	1500 786.45	1515 996.14	1531 205.98
131 12 30	1470 059.81	1485 269.47	1500 479.29	1515 689.26	1530 899.39
131 15 00	1469 757.20	1484 967.15	1500 177.25	1515 387.50	1530 597.91
131 17 30	1469 459.73	1484 669.96	1499 880.34	1515 090.86	1530 301.55
131 20 00	1469 167.39	1484 377.90	1499 588.55	1514 799.36	1530 010.31
131 22 30	1468 880.20	1484 090.99	1499 301.91	1514 512.97	1529 724.20
131 25 00	1468 598.15	1483 809.19	1499 020.39	1514 231.73	1529 443.21
131 27 30	1468 321.23	1483 532.55	1498 744.00	1513 955.61	1529 167.35
131 30 00	1468 049.46	1483 261.04	1498 472.75	1513 684.62	1528 896.62
131 32 30	1467 782.83	1482 994.67	1498 206.64	1513 418.75	1528 631.01
131 35 00	1467 521.33	1482 733.43	1497 945.66	1513 158.02	1528 370.52
131 37 30	1467 264.98	1482 477.33	1497 689.81	1512 902.42	1528 115.18
131 40 00	1467 013.78	1482 226.38	1497 439.10	1512 651.96	1527 864.95
131 42 30	1466 767.73	1481 980.57	1497 193.53	1512 406.63	1527 619.85
131 45 00	1466 526.81	1481 739.89	1496 953.10	1512 166.43	1527 379.89
131 47 30	1466 291.04	1481 504.36	1496 717.80	1511 931.37	1527 145.06
131 50 00	1466 060.42	1481 273.97	1496 487.64	1511 701.43	1526 915.36
131 52 30	1465 834.96	1481 048.73	1496 262.62	1511 476.65	1526 690.79
131 55 00	1465 614.63	1480 828.63	1496 042.75	1511 256.99	1526 471.35
131 57 30	1465 399.45	1480 613.68	1495 828.01	1511 042.47	1526 257.05
132 00 00	1465 189.43	1480 403.87	1495 618.42	1510 833.09	1526 047.88

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	55 50 00	55 52 30	55 55 00	55 57 30	56 00 00
132 00 00	3028 243.26	3027 874.66	3027 506.04	3027 137.39	3026 768.73
132 02 30	3019 680.40	3019 320.95	3018 961.49	3018 602.00	3018 242.50
132 05 00	3011 117.43	3010 767.13	3010 416.82	3010 066.50	3009 716.17
132 07 30	3002 554.34	3002 213.20	3001 872.05	3001 530.89	3001 189.72
132 10 00	2993 991.13	2993 659.14	2993 327.16	2992 995.16	2992 663.16
132 12 30	2985 427.81	2985 104.98	2984 782.15	2984 459.32	2984 136.48
132 15 00	2976 864.37	2976 550.71	2976 237.04	2975 923.38	2975 609.71
132 17 30	2968 300.83	2967 996.32	2967 691.83	2967 387.33	2967 082.83
132 20 00	2959 737.18	2959 441.84	2959 146.50	2958 851.18	2958 555.85
132 22 30	2951 173.43	2950 887.25	2950 601.08	2950 314.92	2950 028.77
132 25 00	2942 609.57	2942 332.55	2942 055.56	2941 778.57	2941 501.59
132 27 30	2934 045.61	2933 777.76	2933 509.93	2933 242.12	2932 974.31
132 30 00	2925 481.56	2925 222.88	2924 964.23	2924 705.58	2924 446.96
132 32 30	2916 917.41	2916 667.89	2916 418.41	2916 168.94	2915 919.49
132 35 00	2908 353.16	2908 112.82	2907 872.51	2907 632.22	2907 391.94
132 37 30	2899 788.83	2899 557.65	2899 326.51	2899 095.40	2898 864.31
132 40 00	2891 224.39	2891 002.40	2890 780.43	2890 558.50	2890 336.60
132 42 30	2882 659.88	2882 447.06	2882 234.27	2882 021.52	2881 808.79
132 45 00	2874 095.29	2873 891.64	2873 688.03	2873 484.46	2873 280.91
132 47 30	2865 530.60	2865 336.13	2865 141.70	2864 947.31	2864 752.95
132 50 00	2856 965.83	2856 780.54	2856 595.29	2856 410.09	2856 224.92
132 52 30	2848 400.99	2848 224.88	2848 048.82	2847 872.79	2847 696.81
132 55 00	2839 836.07	2839 669.13	2839 502.26	2839 335.42	2839 168.63
132 57 30	2831 271.08	2831 113.33	2830 955.63	2830 797.99	2830 640.39
133 00 00	2822 706.01	2822 557.44	2822 408.94	2822 260.48	2822 112.07
133 02 30	2814 140.87	2814 001.49	2813 862.16	2813 722.90	2813 583.69
133 05 00	2805 575.67	2805 445.48	2805 315.34	2805 185.27	2805 055.25
133 07 30	2797 010.40	2796 889.39	2796 768.45	2796 647.57	2796 526.74
133 10 00	2788 445.07	2788 333.25	2788 221.49	2788 109.81	2787 998.18
133 12 30	2779 879.67	2779 777.04	2779 674.48	2779 571.99	2779 469.57
133 15 00	2771 314.22	2771 220.78	2771 127.41	2771 034.11	2770 940.89
133 17 30	2762 748.71	2762 664.46	2762 580.29	2762 496.19	2762 412.17
133 20 00	2754 183.15	2754 108.09	2754 033.12	2753 958.22	2753 883.40
133 22 30	2745 617.53	2745 551.67	2745 485.89	2745 420.19	2745 354.58
133 25 00	2737 051.86	2736 995.19	2736 938.62	2736 882.12	2736 825.70
133 27 30	2728 486.14	2728 438.67	2728 391.30	2728 344.01	2728 296.80
133 30 00	2719 920.38	2719 882.11	2719 843.94	2719 805.85	2719 767.85
133 32 30	2711 354.57	2711 325.51	2711 296.54	2711 267.65	2711 238.86
133 35 00	2702 788.73	2702 768.86	2702 749.10	2702 729.43	2702 709.85
133 37 30	2694 222.84	2694 212.18	2694 201.62	2694 191.15	2694 180.79
133 40 00	2685 656.92	2685 655.46	2685 654.11	2685 652.85	2685 651.69
133 42 30	2677 090.96	2677 098.71	2677 106.56	2677 114.52	2677 122.58
133 45 00	2668 524.96	2668 541.92	2668 558.98	2668 576.16	2668 593.43
133 47 30	2659 958.95	2659 985.11	2660 011.38	2660 037.77	2660 064.26
133 50 00	2651 392.90	2651 428.27	2651 463.76	2651 499.36	2651 535.07
133 52 30	2642 826.83	2642 871.41	2642 916.11	2642 960.93	2643 005.86
133 55 00	2634 260.73	2634 314.52	2634 368.44	2634 422.47	2634 476.62
133 57 30	2625 694.61	2625 757.62	2625 820.75	2625 884.01	2625 947.38
134 00 00	2617 128.47	2617 200.70	2617 273.05	2617 345.52	2617 418.11
134 02 30	2608 562.32	2608 643.75	2608 725.32	2608 807.02	2608 888.84
134 05 00	2599 996.15	2600 086.81	2600 177.60	2600 268.52	2600 359.56
134 07 30	2591 429.96	2591 529.84	2591 629.86	2591 730.00	2591 830.27
134 10 00	2582 863.77	2582 972.87	2583 082.11	2583 191.47	2583 300.97
134 12 30	2574 297.58	2574 415.90	2574 534.36	2574 652.95	2574 771.68
134 15 00	2565 731.36	2565 858.91	2565 986.59	2566 114.42	2566 242.38
134 17 30	2557 165.16	2557 301.92	2557 438.84	2557 575.89	2557 713.09
134 20 00	2548 598.95	2548 744.95	2548 891.09	2549 037.37	2549 183.80
134 22 30	2540 032.74	2540 187.96	2540 343.33	2540 498.85	2540 654.52
134 25 00	2531 466.54	2531 630.99	2531 795.59	2531 960.34	2532 125.24
134 27 30	2522 900.34	2523 074.02	2523 247.85	2523 421.84	2523 595.98
134 30 00	2514 334.15	2514 517.06	2514 700.12	2514 883.35	2515 066.73

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	55 50 00	55 52 30	55 55 00	55 57 30	56 00 00
132 00 00	1465 189.43	1480 403.87	1495 618.42	1510 833.09	1526 047.88
132 02 30	1464 984.55	1480 199.21	1495 413.97	1510 628.85	1525 843.85
132 05 00	1464 784.83	1479 999.69	1495 214.66	1510 429.75	1525 644.95
132 07 30	1464 590.26	1479 805.32	1495 020.50	1510 235.79	1525 451.19
132 10 00	1464 400.83	1479 616.11	1494 831.48	1510 046.98	1525 262.57
132 12 30	1464 216.57	1479 432.04	1494 647.61	1509 863.30	1525 079.09
132 15 00	1464 037.45	1479 253.11	1494 468.89	1509 684.76	1524 900.74
132 17 30	1463 863.50	1479 079.35	1494 295.31	1509 511.37	1524 727.53
132 20 00	1463 694.69	1478 910.74	1494 126.88	1509 343.12	1524 559.47
132 22 30	1463 531.05	1478 747.28	1493 963.59	1509 180.02	1524 396.54
132 25 00	1463 372.56	1478 588.96	1493 805.46	1509 022.06	1524 238.76
132 27 30	1463 219.22	1478 435.81	1493 652.48	1508 869.25	1524 086.11
132 30 00	1463 071.05	1478 287.81	1493 504.65	1508 721.58	1523 938.61
132 32 30	1462 928.04	1478 144.96	1493 361.96	1508 579.06	1523 796.26
132 35 00	1462 790.18	1478 007.27	1493 224.43	1508 441.70	1523 659.05
132 37 30	1462 657.49	1477 874.73	1493 092.06	1508 309.48	1523 526.98
132 40 00	1462 529.96	1477 747.36	1492 964.84	1508 182.41	1523 400.06
132 42 30	1462 407.59	1477 625.14	1492 842.77	1508 060.49	1523 278.29
132 45 00	1462 290.37	1477 508.08	1492 725.86	1507 943.72	1523 161.66
132 47 30	1462 178.33	1477 396.18	1492 614.10	1507 832.10	1523 050.18
132 50 00	1462 071.45	1477 289.44	1492 507.50	1507 725.64	1522 943.85
132 52 30	1461 969.74	1477 187.86	1492 406.06	1507 624.33	1522 842.67
132 55 00	1461 873.19	1477 091.45	1492 309.77	1507 528.17	1522 746.64
132 57 30	1461 781.80	1477 000.19	1492 218.64	1507 437.17	1522 655.76
133 00 00	1461 695.58	1476 914.10	1492 132.67	1507 351.32	1522 570.03
133 02 30	1461 614.54	1476 833.17	1492 051.87	1507 270.63	1522 489.46
133 05 00	1461 538.66	1476 757.41	1491 976.22	1507 195.10	1522 414.03
133 07 30	1461 467.95	1476 686.82	1491 905.74	1507 124.72	1522 343.76
133 10 00	1461 402.41	1476 621.38	1491 840.42	1507 059.50	1522 278.65
133 12 30	1461 342.04	1476 561.12	1491 780.25	1506 999.44	1522 218.69
133 15 00	1461 286.84	1476 506.02	1491 725.26	1506 944.55	1522 163.89
133 17 30	1461 236.82	1476 456.10	1491 675.42	1506 894.81	1522 114.24
133 20 00	1461 191.97	1476 411.34	1491 630.76	1506 850.23	1522 069.75
133 22 30	1461 152.29	1476 371.76	1491 591.26	1506 810.82	1522 030.42
133 25 00	1461 117.78	1476 337.34	1491 556.93	1506 776.57	1521 996.25
133 27 30	1461 088.46	1476 308.09	1491 527.76	1506 747.48	1521 967.24
133 30 00	1461 064.30	1476 284.02	1491 503.76	1506 723.55	1521 943.38
133 32 30	1461 045.33	1476 265.12	1491 484.93	1506 704.79	1521 924.69
133 35 00	1461 031.53	1476 251.39	1491 471.28	1506 691.20	1521 911.16
133 37 30	1461 022.91	1476 242.83	1491 462.78	1506 682.78	1521 902.80
133 40 00	1461 019.47	1476 239.46	1491 459.47	1506 679.52	1521 899.59
133 42 30	1461 021.21	1476 241.26	1491 461.32	1506 681.43	1521 901.55
133 45 00	1461 028.13	1476 248.23	1491 468.35	1506 688.50	1521 908.68
133 47 30	1461 040.23	1476 260.38	1491 480.55	1506 700.75	1521 920.97
133 50 00	1461 057.51	1476 277.71	1491 497.92	1506 718.16	1521 938.43
133 52 30	1461 079.98	1476 300.22	1491 520.47	1506 740.75	1521 961.04
133 55 00	1461 107.63	1476 327.91	1491 548.20	1506 768.51	1521 988.83
133 57 30	1461 140.47	1476 360.78	1491 581.10	1506 801.44	1522 021.80
134 00 00	1461 178.48	1476 398.83	1491 619.18	1506 839.54	1522 059.92
134 02 30	1461 221.69	1476 442.06	1491 662.43	1506 882.83	1522 103.22
134 05 00	1461 270.08	1476 490.48	1491 710.87	1506 931.27	1522 151.69
134 07 30	1461 323.66	1476 544.07	1491 764.49	1506 984.90	1522 205.33
134 10 00	1461 382.43	1476 602.85	1491 823.28	1507 043.71	1522 264.14
134 12 30	1461 446.38	1476 666.82	1491 887.25	1507 107.69	1522 328.12
134 15 00	1461 515.53	1476 735.97	1491 956.41	1507 176.85	1522 397.28
134 17 30	1461 589.87	1476 810.31	1492 030.75	1507 251.19	1522 471.61
134 20 00	1461 669.40	1476 889.84	1492 110.27	1507 330.70	1522 551.12
134 22 30	1461 754.11	1476 974.55	1492 194.97	1507 415.40	1522 635.80
134 25 00	1461 844.02	1477 064.45	1492 284.87	1507 505.27	1522 725.66
134 27 30	1461 939.13	1477 159.54	1492 379.94	1507 600.32	1522 820.70
134 30 00	1462 039.43	1477 259.82	1492 480.20	1507 700.56	1522 920.91

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	56 00 00	56 02 30	56 05 00	56 07 30	56 10 00
129 30 00	3538 052.65	3537 136.26	3536 219.64	3535 302.79	3534 385.70
129 32 30	3529 537.14	3528 629.85	3527 722.32	3526 814.57	3525 906.59
129 35 00	3521 021.39	3520 123.19	3519 224.76	3518 326.11	3517 427.23
129 37 30	3512 505.40	3511 616.29	3510 726.96	3509 837.42	3508 947.64
129 40 00	3503 989.18	3503 109.17	3502 228.94	3501 348.50	3500 467.83
129 42 30	3495 472.72	3494 601.81	3493 730.68	3492 859.35	3491 987.78
129 45 00	3486 956.03	3486 094.22	3485 232.20	3484 369.97	3483 507.51
129 47 30	3478 439.13	3477 586.41	3476 733.49	3475 880.36	3475 027.02
129 50 00	3469 921.98	3469 078.37	3468 234.55	3467 390.53	3466 546.30
129 52 30	3461 404.61	3460 570.10	3459 735.39	3458 900.48	3458 065.37
129 55 00	3452 887.03	3452 061.62	3451 236.01	3450 410.21	3449 584.21
129 57 30	3444 369.21	3443 552.91	3442 736.42	3441 919.72	3441 102.84
130 00 00	3435 851.18	3435 043.98	3434 236.60	3433 429.02	3432 621.25
130 02 30	3427 332.94	3426 534.85	3425 736.58	3424 938.11	3424 139.45
130 05 00	3418 814.48	3418 025.50	3417 236.33	3416 446.99	3415 657.45
130 07 30	3410 295.80	3409 515.93	3408 735.88	3407 955.65	3407 175.23
130 10 00	3401 776.92	3401 006.16	3400 235.22	3399 464.11	3398 692.81
130 12 30	3393 257.83	3392 496.18	3391 734.36	3390 972.36	3390 210.19
130 15 00	3384 738.53	3383 985.99	3383 233.28	3382 480.41	3381 727.36
130 17 30	3376 219.03	3375 475.60	3374 732.02	3373 988.26	3373 244.34
130 20 00	3367 699.32	3366 965.01	3366 230.54	3365 495.91	3364 761.11
130 22 30	3359 179.41	3358 454.22	3357 728.87	3357 003.36	3356 277.69
130 25 00	3350 659.31	3349 943.23	3349 227.01	3348 510.62	3347 794.08
130 27 30	3342 139.00	3341 432.05	3340 724.94	3340 017.69	3339 310.27
130 30 00	3333 618.50	3332 920.67	3332 222.69	3331 524.56	3330 826.27
130 32 30	3325 097.82	3324 409.11	3323 720.25	3323 031.25	3322 342.09
130 35 00	3316 576.94	3315 897.35	3315 217.62	3314 537.75	3313 857.73
130 37 30	3308 055.87	3307 385.41	3306 714.80	3306 044.06	3305 373.17
130 40 00	3299 534.62	3298 873.28	3298 211.81	3297 550.20	3296 888.45
130 42 30	3291 013.19	3290 360.97	3289 708.62	3289 056.15	3288 403.53
130 45 00	3282 491.56	3281 848.48	3281 205.27	3280 561.92	3279 918.44
130 47 30	3273 969.76	3273 335.81	3272 701.73	3272 067.52	3271 433.18
130 50 00	3265 447.79	3264 822.97	3264 198.02	3263 572.95	3262 947.74
130 52 30	3256 925.64	3256 309.94	3255 694.13	3255 078.19	3254 462.13
130 55 00	3248 403.31	3247 796.75	3247 190.07	3246 583.27	3245 976.36
130 57 30	3239 880.81	3239 283.38	3238 685.84	3238 088.19	3237 490.41
131 00 00	3231 358.15	3230 769.85	3230 181.45	3229 592.93	3229 004.30
131 02 30	3222 835.31	3222 256.16	3221 676.89	3221 097.52	3220 518.04
131 05 00	3214 312.31	3213 742.29	3213 172.17	3212 601.94	3212 031.60
131 07 30	3205 789.16	3205 228.27	3204 667.29	3204 106.21	3203 545.01
131 10 00	3197 265.83	3196 714.09	3196 162.25	3195 610.31	3195 058.27
131 12 30	3188 742.34	3188 199.74	3187 657.05	3187 114.25	3186 571.36
131 15 00	3180 218.71	3179 685.25	3179 151.70	3178 618.06	3178 084.32
131 17 30	3171 694.91	3171 170.59	3170 646.19	3170 121.70	3169 597.12
131 20 00	3163 170.96	3162 655.79	3162 140.53	3161 625.19	3161 109.76
131 22 30	3154 646.87	3154 140.84	3153 634.74	3153 128.54	3152 622.27
131 25 00	3146 122.62	3145 625.74	3145 128.78	3144 631.75	3144 134.63
131 27 30	3137 598.22	3137 110.49	3136 622.69	3136 134.80	3135 646.85
131 30 00	3129 073.68	3128 595.10	3128 116.45	3127 637.73	3127 158.93
131 32 30	3120 549.00	3120 079.57	3119 610.08	3119 140.51	3118 670.87
131 35 00	3112 024.18	3111 563.90	3111 103.56	3110 643.15	3110 182.67
131 37 30	3103 499.23	3103 048.10	3102 596.91	3102 145.67	3101 694.35
131 40 00	3094 974.13	3094 532.15	3094 090.13	3093 648.04	3093 205.89
131 42 30	3086 448.90	3086 016.08	3085 583.22	3085 150.28	3084 717.30
131 45 00	3077 923.54	3077 499.89	3077 076.18	3076 652.41	3076 228.59
131 47 30	3069 398.05	3068 983.55	3068 569.00	3068 154.40	3067 739.75
131 50 00	3060 872.43	3060 467.09	3060 061.70	3059 656.27	3059 250.79
131 52 30	3052 346.69	3051 950.51	3051 554.29	3051 158.02	3050 761.71
131 55 00	3043 820.83	3043 433.80	3043 046.75	3042 659.65	3042 272.51
131 57 30	3035 294.83	3034 916.98	3034 539.09	3034 161.16	3033 783.19
132 00 00	3026 768.73	3026 400.04	3026 031.32	3025 662.56	3025 293.77

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.01	+.02	+.02	+.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.01	+.02	+.02	+.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	56 00 00	56 02 30	56 05 00	56 07 30	56 10 00
129 30 00	1547 662.20	1562 857.93	1578 053.90	1593 250.11	1608 446.55
129 32 30	1547 151.28	1562 347.44	1577 543.83	1592 740.47	1607 937.33
129 35 00	1546 645.45	1561 842.04	1577 038.85	1592 235.91	1607 433.19
129 37 30	1546 144.72	1561 341.73	1576 538.96	1591 736.43	1606 934.13
129 40 00	1545 649.08	1560 846.51	1576 044.16	1591 242.04	1606 440.15
129 42 30	1545 158.55	1560 356.38	1575 554.44	1590 752.74	1605 951.27
129 45 00	1544 673.11	1559 871.36	1575 069.82	1590 268.52	1605 467.45
129 47 30	1544 192.77	1559 391.42	1574 590.29	1589 789.40	1604 988.72
129 50 00	1543 717.53	1558 916.58	1574 115.85	1589 315.35	1604 515.08
129 52 30	1543 247.38	1558 446.83	1573 646.50	1588 846.40	1604 046.52
129 55 00	1542 782.34	1557 982.19	1573 182.25	1588 382.54	1603 583.05
129 57 30	1542 322.40	1557 522.64	1572 723.09	1587 923.77	1603 124.66
130 00 00	1541 867.56	1557 068.19	1572 269.03	1587 470.08	1602 671.36
130 02 30	1541 417.82	1556 618.83	1571 820.06	1587 021.49	1602 223.15
130 05 00	1540 973.19	1556 174.58	1571 376.18	1586 577.99	1601 780.03
130 07 30	1540 533.66	1555 735.43	1570 937.40	1586 139.59	1601 341.99
130 10 00	1540 099.23	1555 301.38	1570 503.72	1585 706.28	1600 909.05
130 12 30	1539 669.91	1554 872.42	1570 075.13	1585 278.06	1600 481.19
130 15 00	1539 245.69	1554 448.57	1569 651.65	1584 854.93	1600 058.43
130 17 30	1538 826.58	1554 029.82	1569 233.26	1584 436.91	1599 640.76
130 20 00	1538 412.58	1553 616.17	1568 819.97	1584 023.97	1599 228.18
130 22 30	1538 003.68	1553 207.64	1568 411.78	1583 616.14	1598 820.69
130 25 00	1537 599.89	1552 804.20	1568 008.70	1583 213.40	1598 418.30
130 27 30	1537 201.21	1552 405.86	1567 610.71	1582 815.76	1598 021.00
130 30 00	1536 807.64	1552 012.64	1567 217.83	1582 423.21	1597 628.80
130 32 30	1536 419.19	1551 624.52	1566 830.05	1582 035.77	1597 241.69
130 35 00	1536 035.84	1551 241.51	1566 447.37	1581 653.43	1596 859.68
130 37 30	1535 657.60	1550 863.61	1566 069.80	1581 276.19	1596 482.77
130 40 00	1535 284.48	1550 490.81	1565 697.33	1580 904.04	1596 110.94
130 42 30	1534 916.46	1550 123.13	1565 329.97	1580 537.00	1595 744.23
130 45 00	1534 553.57	1549 760.55	1564 967.71	1580 175.06	1595 382.60
130 47 30	1534 195.78	1549 403.09	1564 610.56	1579 818.23	1595 026.08
130 50 00	1533 843.12	1549 050.73	1564 258.52	1579 466.50	1594 674.66
130 52 30	1533 495.56	1548 703.49	1563 911.59	1579 119.87	1594 328.34
130 55 00	1533 153.12	1548 361.36	1563 569.77	1578 778.35	1593 987.12
130 57 30	1532 815.81	1548 024.34	1563 233.05	1578 441.93	1593 651.00
131 00 00	1532 483.60	1547 692.44	1562 901.45	1578 110.63	1593 319.99
131 02 30	1532 156.52	1547 365.65	1562 574.95	1577 784.43	1592 994.08
131 05 00	1531 834.56	1547 043.98	1562 253.57	1577 463.34	1592 673.28
131 07 30	1531 517.71	1546 727.43	1561 937.30	1577 147.35	1592 357.57
131 10 00	1531 205.98	1546 415.99	1561 626.15	1576 836.48	1592 046.97
131 12 30	1530 899.39	1546 109.67	1561 320.10	1576 530.71	1591 741.49
131 15 00	1530 597.91	1545 808.46	1561 019.17	1576 230.06	1591 441.11
131 17 30	1530 301.55	1545 512.38	1560 723.36	1575 934.52	1591 145.83
131 20 00	1530 010.31	1545 221.41	1560 432.67	1575 644.09	1590 855.67
131 22 30	1529 724.20	1544 935.57	1560 147.08	1575 358.77	1590 570.60
131 25 00	1529 443.21	1544 654.84	1559 866.62	1575 078.56	1590 290.65
131 27 30	1529 167.35	1544 379.24	1559 591.28	1574 803.47	1590 015.82
131 30 00	1528 896.62	1544 108.76	1559 321.05	1574 533.49	1589 746.09
131 32 30	1528 631.01	1543 843.40	1559 055.94	1574 268.64	1589 481.48
131 35 00	1528 370.52	1543 583.17	1558 795.95	1574 008.89	1589 221.97
131 37 30	1528 115.18	1543 328.06	1558 541.09	1573 754.26	1588 967.58
131 40 00	1527 864.95	1543 078.08	1558 291.34	1573 504.75	1588 718.31
131 42 30	1527 619.85	1542 833.22	1558 046.72	1573 260.36	1588 474.15
131 45 00	1527 379.89	1542 593.48	1557 807.22	1573 021.09	1588 235.10
131 47 30	1527 145.06	1542 358.88	1557 572.84	1572 786.93	1588 001.16
131 50 00	1526 915.36	1542 129.41	1557 343.58	1572 557.89	1587 772.35
131 52 30	1526 690.79	1541 905.06	1557 119.45	1572 333.99	1587 548.66
131 55 00	1526 471.35	1541 685.84	1556 900.45	1572 115.20	1587 330.07
131 57 30	1526 257.05	1541 471.75	1556 686.57	1571 901.52	1587 116.61
132 00 00	1526 047.88	1541 262.79	1556 477.82	1571 692.98	1586 908.27

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	56 00 00	56 02 30	56 05 00	56 07 30	56 10 00
132 00 00	3026 768.73	3026 400.04	3026 031.32	3025 662.56	3025 293.77
132 02 30	3018 242.50	3017 882.98	3017 523.43	3017 163.84	3016 804.22
132 05 00	3009 716.17	3009 365.81	3009 015.42	3008 665.01	3008 314.57
132 07 30	3001 189.72	3000 848.53	3000 507.32	3000 166.08	2999 824.82
132 10 00	2992 663.16	2992 331.13	2991 999.10	2991 667.04	2991 334.95
132 12 30	2984 136.48	2983 813.64	2983 490.77	2983 167.89	2982 844.98
132 15 00	2975 609.71	2975 296.04	2974 982.35	2974 668.64	2974 354.92
132 17 30	2967 082.83	2966 778.33	2966 473.81	2966 169.29	2965 864.74
132 20 00	2958 555.85	2958 260.52	2957 965.18	2957 669.84	2957 374.48
132 22 30	2950 028.77	2949 742.62	2949 456.46	2949 170.30	2948 884.13
132 25 00	2941 501.59	2941 224.62	2940 947.64	2940 670.66	2940 393.67
132 27 30	2932 974.31	2932 706.52	2932 438.72	2932 170.93	2931 903.13
132 30 00	2924 446.96	2924 188.34	2923 929.72	2923 671.12	2923 412.51
132 32 30	2915 919.49	2915 670.05	2915 420.63	2915 171.21	2914 921.78
132 35 00	2907 391.94	2907 151.69	2906 911.45	2906 671.21	2906 430.99
132 37 30	2898 864.31	2898 633.24	2898 402.19	2898 171.15	2897 940.10
132 40 00	2890 336.60	2890 114.71	2889 892.84	2889 670.99	2889 449.14
132 42 30	2881 808.79	2881 596.10	2881 383.41	2881 170.76	2880 958.10
132 45 00	2873 280.91	2873 077.40	2872 873.91	2872 670.44	2872 466.99
132 47 30	2864 752.95	2864 558.63	2864 364.34	2864 170.06	2863 975.81
132 50 00	2856 224.92	2856 039.78	2855 854.68	2855 669.60	2855 484.55
132 52 30	2847 696.81	2847 520.87	2847 344.96	2847 169.08	2846 993.23
132 55 00	2839 168.63	2839 001.88	2838 835.17	2838 668.49	2838 501.83
132 57 30	2830 640.39	2830 482.83	2830 325.32	2830 167.83	2830 010.38
133 00 00	2822 112.07	2821 963.71	2821 815.39	2821 667.11	2821 518.86
133 02 30	2813 583.69	2813 444.52	2813 305.40	2813 166.33	2813 027.29
133 05 00	2805 055.25	2804 925.28	2804 795.36	2804 665.49	2804 535.65
133 07 30	2796 526.74	2796 405.97	2796 285.26	2796 164.58	2796 043.96
133 10 00	2787 998.18	2787 886.61	2787 775.10	2787 663.63	2787 552.21
133 12 30	2779 469.57	2779 367.20	2779 264.88	2779 162.63	2779 060.42
133 15 00	2770 940.89	2770 847.73	2770 754.62	2770 661.57	2770 568.58
133 17 30	2762 412.17	2762 328.21	2762 244.31	2762 160.47	2762 076.69
133 20 00	2753 883.40	2753 808.64	2753 733.95	2753 659.32	2753 584.76
133 22 30	2745 354.58	2745 289.03	2745 223.55	2745 158.14	2745 092.78
133 25 00	2736 825.70	2736 769.37	2736 713.10	2736 656.90	2736 600.76
133 27 30	2728 296.80	2728 249.67	2728 202.61	2728 155.63	2728 108.71
133 30 00	2719 767.85	2719 729.93	2719 692.09	2719 654.32	2719 616.62
133 32 30	2711 238.86	2711 210.15	2711 181.53	2711 152.97	2711 124.49
133 35 00	2702 709.85	2702 690.35	2702 670.94	2702 651.60	2702 632.34
133 37 30	2694 180.79	2694 170.50	2694 160.31	2694 150.20	2694 140.16
133 40 00	2685 651.69	2685 650.63	2685 649.65	2685 648.76	2685 647.96
133 42 30	2677 122.58	2677 130.73	2677 138.98	2677 147.31	2677 155.72
133 45 00	2668 593.43	2668 610.80	2668 628.27	2668 645.82	2668 663.46
133 47 30	2660 064.26	2660 090.85	2660 117.53	2660 144.32	2660 171.19
133 50 00	2651 535.07	2651 570.88	2651 606.79	2651 642.80	2651 678.90
133 52 30	2643 005.86	2643 050.89	2643 096.03	2643 141.26	2643 186.59
133 55 00	2634 476.62	2634 530.88	2634 585.24	2634 639.70	2634 694.27
133 57 30	2625 947.38	2626 010.86	2626 074.45	2626 138.15	2626 201.94
134 00 00	2617 418.11	2617 490.82	2617 563.64	2617 636.57	2617 709.60
134 02 30	2608 888.84	2608 970.77	2609 052.82	2609 134.98	2609 217.25
134 05 00	2600 359.56	2600 450.73	2600 542.01	2600 633.40	2600 724.91
134 07 30	2591 830.27	2591 930.66	2592 031.18	2592 131.81	2592 232.55
134 10 00	2583 300.97	2583 410.60	2583 520.35	2583 630.21	2583 740.20
134 12 30	2574 771.68	2574 890.54	2575 009.53	2575 128.63	2575 247.85
134 15 00	2566 242.38	2566 370.48	2566 498.70	2566 627.04	2566 755.51
134 17 30	2557 713.09	2557 850.42	2557 987.88	2558 125.46	2558 263.17
134 20 00	2549 183.80	2549 330.37	2549 477.06	2549 623.90	2549 770.85
134 22 30	2540 654.52	2540 810.32	2540 966.26	2541 122.33	2541 278.53
134 25 00	2532 125.24	2532 290.28	2532 455.46	2532 620.78	2532 786.23
134 27 30	2523 595.98	2523 770.26	2523 944.69	2524 119.25	2524 293.95
134 30 00	2515 066.73	2515 250.25	2515 433.92	2515 617.73	2515 801.68

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	56 00 00	56 02 30	56 05 00	56 07 30	56 10 00
132 00 00	1526 047.88	1541 262.79	1556 477.82	1571 692.98	1586 908.27
132 02 30	1525 843.85	1541 058.97	1556 274.20	1571 489.55	1586 705.05
132 05 00	1525 644.95	1540 860.27	1556 075.70	1571 291.26	1586 506.95
132 07 30	1525 451.19	1540 666.71	1555 882.33	1571 098.09	1586 313.96
132 10 00	1525 262.57	1540 478.28	1555 694.10	1570 910.04	1586 126.11
132 12 30	1525 079.09	1540 294.98	1555 510.99	1570 727.12	1585 943.37
132 15 00	1524 900.74	1540 116.82	1555 333.01	1570 549.33	1585 765.76
132 17 30	1524 727.53	1539 943.80	1555 160.17	1570 376.67	1585 593.27
132 20 00	1524 559.47	1539 775.91	1554 992.46	1570 209.12	1585 425.90
132 22 30	1524 396.54	1539 613.16	1554 829.89	1570 046.72	1585 263.67
132 25 00	1524 238.76	1539 455.54	1554 672.44	1569 889.44	1585 106.55
132 27 30	1524 086.11	1539 303.07	1554 520.13	1569 737.29	1584 954.57
132 30 00	1523 938.61	1539 155.73	1554 372.95	1569 590.28	1584 807.70
132 32 30	1523 796.26	1539 013.54	1554 230.92	1569 448.39	1584 665.98
132 35 00	1523 659.05	1538 876.48	1554 094.01	1569 311.64	1584 529.37
132 37 30	1523 526.98	1538 744.56	1553 962.25	1569 180.02	1584 397.90
132 40 00	1523 400.06	1538 617.79	1553 835.62	1569 053.54	1584 271.56
132 42 30	1523 278.29	1538 496.16	1553 714.13	1568 932.19	1584 150.35
132 45 00	1523 161.66	1538 379.68	1553 597.78	1568 815.98	1584 034.27
132 47 30	1523 050.18	1538 268.33	1553 486.57	1568 704.90	1583 923.32
132 50 00	1522 943.85	1538 162.14	1553 380.51	1568 598.97	1583 817.51
132 52 30	1522 842.67	1538 061.09	1553 279.58	1568 498.17	1583 716.83
132 55 00	1522 746.64	1537 965.18	1553 183.80	1568 402.50	1583 621.28
132 57 30	1522 655.76	1537 874.42	1553 093.16	1568 311.97	1583 530.87
133 00 00	1522 570.03	1537 788.81	1553 007.66	1568 226.59	1583 445.60
133 02 30	1522 489.46	1537 708.35	1552 927.31	1568 146.35	1583 365.46
133 05 00	1522 414.03	1537 633.03	1552 852.10	1568 071.24	1583 290.46
133 07 30	1522 343.76	1537 562.87	1552 782.04	1568 001.29	1583 220.60
133 10 00	1522 278.65	1537 497.85	1552 717.13	1567 936.46	1583 155.88
133 12 30	1522 218.69	1537 437.99	1552 657.36	1567 876.79	1583 096.29
133 15 00	1522 163.89	1537 383.28	1552 602.74	1567 822.26	1583 041.85
133 17 30	1522 114.24	1537 333.73	1552 553.27	1567 772.87	1582 992.55
133 20 00	1522 069.75	1537 289.32	1552 508.95	1567 728.64	1582 948.39
133 22 30	1522 030.42	1537 250.07	1552 469.78	1567 689.54	1582 909.36
133 25 00	1521 996.25	1537 215.98	1552 435.76	1567 655.59	1582 875.49
133 27 30	1521 967.24	1537 187.04	1552 406.89	1567 626.79	1582 846.76
133 30 00	1521 943.38	1537 163.25	1552 383.17	1567 603.14	1582 823.16
133 32 30	1521 924.69	1537 144.63	1552 364.61	1567 584.64	1582 804.72
133 35 00	1521 911.16	1537 131.16	1552 351.20	1567 571.29	1582 791.42
133 37 30	1521 902.80	1537 122.85	1552 342.95	1567 563.09	1582 783.27
133 40 00	1521 899.59	1537 119.70	1552 339.84	1567 560.04	1582 780.27
133 42 30	1521 901.55	1537 121.71	1552 341.90	1567 562.14	1582 782.41
133 45 00	1521 908.68	1537 128.88	1552 349.12	1567 569.39	1582 789.71
133 47 30	1521 920.97	1537 141.21	1552 361.49	1567 581.80	1582 802.15
133 50 00	1521 938.43	1537 158.70	1552 379.01	1567 599.36	1582 819.74
133 52 30	1521 961.04	1537 181.36	1552 401.70	1567 622.07	1582 842.48
133 55 00	1521 988.83	1537 209.18	1552 429.55	1567 649.95	1582 870.38
133 57 30	1522 021.80	1537 242.17	1552 462.55	1567 682.97	1582 903.42
134 00 00	1522 059.92	1537 280.31	1552 500.72	1567 721.16	1582 941.62
134 02 30	1522 103.22	1537 323.63	1552 544.05	1567 764.51	1582 984.98
134 05 00	1522 151.69	1537 372.11	1552 592.54	1567 813.00	1583 033.48
134 07 30	1522 205.33	1537 425.76	1552 646.20	1567 866.66	1583 087.15
134 10 00	1522 264.14	1537 484.58	1552 705.02	1567 925.49	1583 145.96
134 12 30	1522 328.12	1537 548.56	1552 769.01	1567 989.46	1583 209.94
134 15 00	1522 397.28	1537 617.72	1552 838.15	1568 058.61	1583 279.07
134 17 30	1522 471.61	1537 692.04	1552 912.47	1568 132.91	1583 353.36
134 20 00	1522 551.12	1537 771.54	1552 991.95	1568 212.38	1583 432.81
134 22 30	1522 635.80	1537 856.20	1553 076.60	1568 297.01	1583 517.42
134 25 00	1522 725.66	1537 946.05	1553 166.42	1568 386.80	1583 607.19
134 27 30	1522 820.70	1538 041.05	1553 261.41	1568 481.76	1583 702.11
134 30 00	1522 920.91	1538 141.24	1553 361.57	1568 581.89	1583 802.21

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	56 10 00	56 12 30	56 15 00	56 17 30	56 20 00
130 00 00	3432 621.25	3431 813.28	3431 005.11	3430 196.73	3429 388.13
130 02 30	3424 139.45	3423 340.61	3422 541.56	3421 742.31	3420 942.85
130 05 00	3415 657.45	3414 867.72	3414 077.80	3413 287.67	3412 497.34
130 07 30	3407 175.23	3406 394.63	3405 613.83	3404 832.83	3404 051.64
130 10 00	3398 692.81	3397 921.33	3397 149.67	3396 377.80	3395 605.74
130 12 30	3390 210.19	3389 447.83	3388 685.29	3387 922.56	3387 159.64
130 15 00	3381 727.36	3380 974.13	3380 220.72	3379 467.12	3378 713.33
130 17 30	3373 244.34	3372 500.23	3371 755.96	3371 011.49	3370 266.85
130 20 00	3364 761.11	3364 026.14	3363 290.99	3362 555.66	3361 820.15
130 22 30	3356 277.69	3355 551.85	3354 825.83	3354 099.64	3353 373.27
130 25 00	3347 794.08	3347 077.37	3346 360.49	3345 643.43	3344 926.21
130 27 30	3339 310.27	3338 602.69	3337 894.95	3337 187.04	3336 478.95
130 30 00	3330 826.27	3330 127.83	3329 429.22	3328 730.45	3328 031.50
130 32 30	3322 342.09	3321 652.78	3320 963.32	3320 273.68	3319 583.88
130 35 00	3313 857.73	3313 177.55	3312 497.22	3311 816.73	3311 136.08
130 37 30	3305 373.17	3304 702.14	3304 030.95	3303 359.60	3302 688.10
130 40 00	3296 888.45	3296 226.55	3295 564.50	3294 902.29	3294 239.94
130 42 30	3288 403.53	3287 750.77	3287 097.87	3286 444.81	3285 791.60
130 45 00	3279 918.44	3279 274.82	3278 631.06	3277 987.15	3277 343.09
130 47 30	3271 433.18	3270 798.70	3270 164.09	3269 529.33	3268 894.42
130 50 00	3262 947.74	3262 322.41	3261 696.94	3261 071.33	3260 445.58
130 52 30	3254 462.13	3253 845.94	3253 229.62	3252 613.16	3251 996.56
130 55 00	3245 976.36	3245 369.31	3244 762.14	3244 154.84	3243 547.39
130 57 30	3237 490.41	3236 892.52	3236 294.49	3235 696.34	3235 098.05
131 00 00	3229 004.30	3228 415.55	3227 826.68	3227 237.68	3226 648.55
131 02 30	3220 518.04	3219 938.44	3219 358.72	3218 778.87	3218 198.90
131 05 00	3212 031.60	3211 461.15	3210 890.59	3210 319.90	3209 749.09
131 07 30	3203 545.01	3202 983.72	3202 422.31	3201 860.78	3201 299.13
131 10 00	3195 058.27	3194 506.12	3193 953.87	3193 401.50	3192 849.01
131 12 30	3186 571.36	3186 028.37	3185 485.27	3184 942.07	3184 398.74
131 15 00	3178 084.32	3177 550.49	3177 016.54	3176 482.50	3175 948.34
131 17 30	3169 597.12	3169 072.43	3168 547.65	3168 022.77	3167 497.78
131 20 00	3161 109.76	3160 594.24	3160 078.62	3159 562.90	3159 047.07
131 22 30	3152 622.27	3152 115.90	3151 609.45	3151 102.89	3150 596.23
131 25 00	3144 134.63	3143 637.42	3143 140.13	3142 642.74	3142 145.25
131 27 30	3135 646.85	3135 158.80	3134 670.67	3134 182.45	3133 694.13
131 30 00	3127 158.93	3126 680.04	3126 201.08	3125 722.03	3125 242.88
131 32 30	3118 670.87	3118 201.16	3117 731.35	3117 261.47	3116 791.49
131 35 00	3110 182.67	3109 722.12	3109 261.49	3108 800.77	3108 339.98
131 37 30	3101 694.35	3101 242.96	3100 791.50	3100 339.96	3099 888.34
131 40 00	3093 205.89	3092 763.67	3092 321.38	3091 879.01	3091 436.57
131 42 30	3084 717.30	3084 284.25	3083 851.13	3083 417.94	3082 984.67
131 45 00	3076 228.59	3075 804.71	3075 380.76	3074 956.75	3074 532.66
131 47 30	3067 739.75	3067 325.04	3066 910.27	3066 495.43	3066 080.52
131 50 00	3059 250.79	3058 845.25	3058 439.65	3058 033.99	3057 628.27
131 52 30	3050 761.71	3050 365.35	3049 968.93	3049 572.45	3049 175.90
131 55 00	3042 272.51	3041 885.32	3041 498.08	3041 110.77	3040 723.41
131 57 30	3033 783.19	3033 405.18	3033 027.11	3032 649.00	3032 270.82
132 00 00	3025 293.77	3024 924.93	3024 556.04	3024 187.11	3023 818.13
132 02 30	3016 804.22	3016 444.56	3016 084.86	3015 725.11	3015 365.31
132 05 00	3008 314.57	3007 964.09	3007 613.57	3007 263.00	3006 912.39
132 07 30	2999 824.82	2999 483.52	2999 142.18	2998 800.81	2998 459.38
132 10 00	2991 334.95	2991 002.83	2990 670.68	2990 338.50	2990 006.26
132 12 30	2982 844.98	2982 522.05	2982 199.08	2981 876.08	2981 553.05
132 15 00	2974 354.92	2974 041.16	2973 727.39	2973 413.58	2973 099.74
132 17 30	2965 864.74	2965 560.18	2965 255.60	2964 950.98	2964 646.33
132 20 00	2957 374.48	2957 079.11	2956 783.71	2956 488.28	2956 192.83
132 22 30	2948 884.13	2948 597.93	2948 311.73	2948 025.50	2947 739.24
132 25 00	2940 393.67	2940 116.67	2939 839.66	2939 562.62	2939 285.56
132 27 30	2931 903.13	2931 635.32	2931 367.50	2931 099.66	2930 831.81
132 30 00	2923 412.51	2923 153.89	2922 895.26	2922 636.62	2922 377.96

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.01	+.02	+.02	+.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	56 10 00	56 12 30	56 15 00	56 17 30	56 20 00
130 00 00	1602 671.36	1617 872.86	1633 074.57	1648 276.51	1663 478.67
130 02 30	1602 223.15	1617 425.02	1632 627.11	1647 829.42	1663 031.96
130 05 00	1601 780.03	1616 982.28	1632 184.73	1647 387.42	1662 590.32
130 07 30	1601 341.99	1616 544.61	1631 747.44	1646 950.49	1662 153.76
130 10 00	1600 909.05	1616 112.04	1631 315.22	1646 518.64	1661 722.27
130 12 30	1600 481.19	1615 684.54	1630 888.10	1646 091.87	1661 295.85
130 15 00	1600 058.43	1615 262.14	1630 466.04	1645 670.18	1660 874.52
130 17 30	1599 640.76	1614 844.82	1630 049.08	1645 253.57	1660 458.25
130 20 00	1599 228.18	1614 432.59	1629 637.20	1644 842.04	1660 047.07
130 22 30	1598 820.69	1614 025.46	1629 230.42	1644 435.59	1659 640.96
130 25 00	1598 418.30	1613 623.40	1628 828.71	1644 034.23	1659 239.94
130 27 30	1598 021.00	1613 226.44	1628 432.09	1643 637.94	1658 844.00
130 30 00	1597 628.80	1612 834.58	1628 040.55	1643 246.74	1658 453.13
130 32 30	1597 241.69	1612 447.80	1627 654.11	1642 860.63	1658 067.34
130 35 00	1596 859.68	1612 066.12	1627 272.75	1642 479.60	1657 686.64
130 37 30	1596 482.77	1611 689.53	1626 896.49	1642 103.65	1657 311.02
130 40 00	1596 110.94	1611 318.03	1626 525.32	1641 732.80	1656 940.48
130 42 30	1595 744.23	1610 951.64	1626 159.23	1641 367.03	1656 575.02
130 45 00	1595 382.60	1610 590.33	1625 798.24	1641 006.35	1656 214.65
130 47 30	1595 026.08	1610 234.12	1625 442.33	1640 650.75	1655 859.36
130 50 00	1594 674.66	1609 883.00	1625 091.53	1640 300.25	1655 509.16
130 52 30	1594 328.34	1609 536.99	1624 745.82	1639 954.83	1655 164.04
130 55 00	1593 987.12	1609 196.07	1624 405.19	1639 614.51	1654 824.01
130 57 30	1593 651.00	1608 860.25	1624 069.67	1639 279.28	1654 489.06
131 00 00	1593 319.99	1608 529.53	1623 739.24	1638 949.13	1654 159.21
131 02 30	1592 994.08	1608 203.91	1623 413.90	1638 624.08	1653 834.45
131 05 00	1592 673.28	1607 883.38	1623 093.66	1638 304.13	1653 514.77
131 07 30	1592 357.57	1607 567.96	1622 778.52	1637 989.26	1653 200.17
131 10 00	1592 046.97	1607 257.65	1622 468.48	1637 679.49	1652 890.68
131 12 30	1591 741.49	1606 952.43	1622 163.54	1637 374.82	1652 586.28
131 15 00	1591 441.11	1606 652.31	1621 863.69	1637 075.24	1652 286.96
131 17 30	1591 145.83	1606 357.31	1621 568.95	1636 780.76	1651 992.74
131 20 00	1590 855.67	1606 067.40	1621 279.30	1636 491.37	1651 703.61
131 22 30	1590 570.60	1605 782.61	1620 994.76	1636 207.08	1651 419.57
131 25 00	1590 290.65	1605 502.91	1620 715.32	1635 927.89	1651 140.63
131 27 30	1590 015.82	1605 228.32	1620 440.98	1635 653.80	1650 866.79
131 30 00	1589 746.09	1604 958.84	1620 171.74	1635 384.81	1650 598.04
131 32 30	1589 481.48	1604 694.47	1619 907.62	1635 120.92	1650 334.39
131 35 00	1589 221.97	1604 435.21	1619 648.59	1634 862.13	1650 075.83
131 37 30	1588 967.58	1604 181.06	1619 394.67	1634 608.44	1649 822.37
131 40 00	1588 718.31	1603 932.01	1619 145.85	1634 359.85	1649 574.01
131 42 30	1588 474.15	1603 688.07	1618 902.15	1634 116.38	1649 330.75
131 45 00	1588 235.10	1603 449.25	1618 663.55	1633 878.00	1649 092.59
131 47 30	1588 001.16	1603 215.54	1618 430.05	1633 644.72	1648 859.52
131 50 00	1587 772.35	1602 986.94	1618 201.67	1633 416.55	1648 631.56
131 52 30	1587 548.66	1602 763.46	1617 978.40	1633 193.48	1648 408.71
131 55 00	1587 330.07	1602 545.09	1617 760.23	1632 975.52	1648 190.96
131 57 30	1587 116.61	1602 331.83	1617 547.18	1632 762.67	1647 978.30
132 00 00	1586 908.27	1602 123.69	1617 339.24	1632 554.93	1647 770.75
132 02 30	1586 705.05	1601 920.66	1617 136.40	1632 352.29	1647 568.31
132 05 00	1586 506.95	1601 722.76	1616 938.69	1632 154.76	1647 370.97
132 07 30	1586 313.96	1601 529.97	1616 746.09	1631 962.35	1647 178.73
132 10 00	1586 126.11	1601 342.30	1616 558.60	1631 775.04	1646 991.61
132 12 30	1585 943.37	1601 159.74	1616 376.23	1631 592.84	1646 809.59
132 15 00	1585 765.76	1600 982.30	1616 198.97	1631 415.76	1646 632.68
132 17 30	1585 593.27	1600 809.99	1616 026.82	1631 243.79	1646 460.87
132 20 00	1585 425.90	1600 642.80	1615 859.80	1631 076.93	1646 294.18
132 22 30	1585 263.67	1600 480.73	1615 697.89	1630 915.19	1646 132.60
132 25 00	1585 106.55	1600 323.77	1615 541.11	1630 758.56	1645 976.12
132 27 30	1584 954.57	1600 171.94	1615 389.43	1630 607.04	1645 824.76
132 30 00	1584 807.70	1600 025.24	1615 242.88	1630 460.64	1645 678.51

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X — FEET

λ \ φ	56 10 00	56 12 30	56 15 00	56 17 30	56 20 00
132 30 00	2923 412.51	2923 153.89	2922 895.26	2922 636.62	2922 377.96
132 32 30	2914 921.78	2914 672.36	2914 422.93	2914 173.49	2913 924.04
132 35 00	2906 430.99	2906 190.76	2905 950.52	2905 710.28	2905 470.03
132 37 30	2897 940.10	2897 709.07	2897 478.04	2897 247.00	2897 015.95
132 40 00	2889 449.14	2889 227.31	2889 005.47	2888 783.64	2888 561.80
132 42 30	2880 958.10	2880 745.47	2880 532.83	2880 320.20	2880 107.57
132 45 00	2872 466.99	2872 263.55	2872 060.13	2871 856.70	2871 653.28
132 47 30	2863 975.81	2863 781.57	2863 587.34	2863 393.12	2863 198.91
132 50 00	2855 484.55	2855 299.51	2855 114.49	2854 929.48	2854 744.48
132 52 30	2846 993.23	2846 817.39	2846 641.58	2846 465.78	2846 289.98
132 55 00	2838 501.83	2838 335.21	2838 168.60	2838 002.00	2837 835.43
132 57 30	2830 010.38	2829 852.96	2829 695.56	2829 538.18	2829 380.82
133 00 00	2821 518.86	2821 370.65	2821 222.45	2821 074.29	2820 926.14
133 02 30	2813 027.29	2812 888.27	2812 749.30	2812 610.34	2812 471.41
133 05 00	2804 535.65	2804 405.85	2804 376.09	2804 146.35	2804 016.64
133 07 30	2796 043.96	2795 923.37	2795 802.82	2795 682.30	2795 561.81
133 10 00	2787 552.21	2787 440.84	2787 329.50	2787 218.20	2787 106.93
133 12 30	2779 060.42	2778 958.26	2778 856.14	2778 754.05	2778 652.01
133 15 00	2770 568.58	2770 475.63	2770 382.73	2770 289.86	2770 197.04
133 17 30	2762 076.69	2761 992.95	2761 909.27	2761 825.63	2761 742.03
133 20 00	2753 584.76	2753 510.24	2753 435.78	2753 361.36	2753 286.98
133 22 30	2745 092.78	2745 027.48	2744 962.24	2744 897.04	2744 831.90
133 25 00	2736 600.76	2736 544.68	2736 488.66	2736 432.69	2736 376.77
133 27 30	2728 108.71	2728 061.85	2728 015.06	2727 968.31	2727 921.62
133 30 00	2719 616.62	2719 578.98	2719 541.41	2719 503.90	2719 466.43
133 32 30	2711 124.49	2711 096.08	2711 067.74	2711 039.45	2711 011.22
133 35 00	2702 632.34	2702 613.16	2702 594.04	2702 574.99	2702 555.99
133 37 30	2694 140.16	2694 130.20	2694 120.31	2694 110.48	2694 100.73
133 40 00	2685 647.96	2685 647.22	2685 646.56	2685 645.97	2685 645.44
133 42 30	2677 155.72	2677 164.22	2677 172.79	2677 181.43	2677 190.14
133 45 00	2668 663.46	2668 681.18	2668 698.99	2668 716.87	2668 734.82
133 47 30	2660 171.19	2660 198.14	2660 225.18	2660 252.30	2660 279.49
133 50 00	2651 678.90	2651 715.09	2651 751.36	2651 787.71	2651 824.15
133 52 30	2643 186.59	2643 232.01	2643 277.52	2643 323.12	2643 368.79
133 55 00	2634 694.27	2634 748.93	2634 803.67	2634 858.51	2634 913.42
133 57 30	2626 201.94	2626 265.84	2626 329.82	2626 393.90	2626 458.06
134 00 00	2617 709.60	2617 782.73	2617 855.96	2617 929.28	2618 002.68
134 02 30	2609 217.25	2609 299.62	2609 382.09	2609 464.65	2609 547.31
134 05 00	2600 724.91	2600 816.51	2600 908.23	2601 000.04	2601 091.94
134 07 30	2592 232.55	2592 333.40	2592 434.36	2592 535.41	2592 636.56
134 10 00	2583 740.20	2583 850.29	2583 960.49	2584 070.80	2584 181.20
134 12 30	2575 247.85	2575 367.19	2575 486.64	2575 606.19	2575 725.85
134 15 00	2566 755.51	2566 884.09	2567 012.79	2567 141.59	2567 270.50
134 17 30	2558 263.17	2558 401.00	2558 538.94	2558 677.00	2558 815.16
134 20 00	2549 770.85	2549 917.93	2550 065.12	2550 212.43	2550 359.85
134 22 30	2541 278.53	2541 434.85	2541 591.30	2541 747.87	2541 904.54
134 25 00	2532 786.23	2532 951.81	2533 117.50	2533 283.32	2533 449.26
134 27 30	2524 293.95	2524 468.78	2524 643.73	2524 818.81	2524 994.00
134 30 00	2515 801.68	2515 985.76	2516 169.97	2516 354.30	2516 538.76
134 32 30	2507 309.44	2507 502.77	2507 696.23	2507 889.83	2508 083.55
134 35 00	2498 817.22	2499 019.81	2499 222.53	2499 425.38	2499 628.37
134 37 30	2490 325.02	2490 536.87	2490 748.85	2490 960.97	2491 173.22
134 40 00	2481 832.85	2482 053.96	2482 275.20	2482 496.58	2482 718.10
134 42 30	2473 340.72	2473 571.08	2473 801.58	2474 032.23	2474 263.01
134 45 00	2464 848.61	2465 088.23	2465 328.00	2465 567.92	2465 807.97
134 47 30	2456 356.54	2456 605.42	2456 854.46	2457 103.64	2457 352.96
134 50 00	2447 864.51	2448 122.66	2448 380.96	2448 639.41	2448 897.99
134 52 30	2439 372.51	2439 639.93	2439 907.50	2440 175.21	2440 443.08
134 55 00	2430 880.56	2431 157.24	2431 434.08	2431 711.07	2431 988.20
134 57 30	2422 388.65	2422 674.60	2422 960.71	2423 246.97	2423 533.38
135 00 00	2413 896.79	2414 192.01	2414 487.38	2414 782.92	2415 078.60

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	56 10 00	56 12 30	56 15 00	56 17 30	56 20 00
132 30 00	1584 807.70	1600 025.24	1615 242.88	1630 460.64	1645 678.51
132 32 30	1584 665.98	1599 883.66	1615 101.45	1630 319.36	1645 537.37
132 35 00	1584 529.37	1599 747.21	1614 965.15	1630 183.19	1645 401.35
132 37 30	1584 397.90	1599 615.88	1614 833.95	1630 052.14	1645 270.44
132 40 00	1584 271.56	1599 489.68	1614 707.89	1629 926.21	1645 144.64
132 42 30	1584 150.35	1599 368.61	1614 586.95	1629 805.40	1645 023.95
132 45 00	1584 034.27	1599 252.66	1614 471.13	1629 689.71	1644 908.39
132 47 30	1583 923.32	1599 141.84	1614 360.44	1629 579.15	1644 797.94
132 50 00	1583 817.51	1599 036.15	1614 254.88	1629 473.69	1644 692.61
132 52 30	1583 716.83	1598 935.59	1614 154.43	1629 373.37	1644 592.40
132 55 00	1583 621.28	1598 840.16	1614 059.11	1629 278.16	1644 497.30
132 57 30	1583 530.87	1598 749.86	1613 968.92	1629 188.08	1644 407.33
133 00 00	1583 445.60	1598 664.69	1613 883.86	1629 103.12	1644 322.47
133 02 30	1583 365.46	1598 584.66	1613 803.93	1629 023.29	1644 242.74
133 05 00	1583 290.46	1598 509.76	1613 729.13	1628 948.59	1644 168.13
133 07 30	1583 220.60	1598 440.00	1613 659.46	1628 879.00	1644 098.63
133 10 00	1583 155.88	1598 375.36	1613 594.91	1628 814.55	1644 034.26
133 12 30	1583 096.29	1598 315.87	1613 535.50	1628 755.23	1643 975.02
133 15 00	1583 041.85	1598 261.50	1613 481.23	1628 701.03	1643 920.90
133 17 30	1582 992.55	1598 212.28	1613 432.08	1628 651.96	1643 871.91
133 20 00	1582 948.39	1598 168.20	1613 388.07	1628 608.02	1643 828.04
133 22 30	1582 909.36	1598 129.25	1613 349.19	1628 569.21	1643 789.29
133 25 00	1582 875.49	1598 095.44	1613 315.45	1628 535.53	1643 755.68
133 27 30	1582 846.76	1598 066.77	1613 286.85	1628 506.99	1643 727.19
133 30 00	1582 823.16	1598 043.24	1613 263.37	1628 483.57	1643 703.83
133 32 30	1582 804.72	1598 024.86	1613 245.04	1628 465.29	1643 685.60
133 35 00	1582 791.42	1598 011.61	1613 231.85	1628 452.14	1643 672.50
133 37 30	1582 783.27	1598 003.51	1613 223.79	1628 444.13	1643 664.52
133 40 00	1582 780.27	1598 000.55	1613 220.87	1628 441.25	1643 661.69
133 42 30	1582 782.41	1598 002.74	1613 223.10	1628 443.51	1643 663.98
133 45 00	1582 789.71	1598 010.07	1613 230.46	1628 450.91	1643 671.40
133 47 30	1582 802.15	1598 022.53	1613 242.96	1628 463.44	1643 683.96
133 50 00	1582 819.74	1598 040.16	1613 260.61	1628 481.11	1643 701.65
133 52 30	1582 842.48	1598 062.92	1613 283.39	1628 503.91	1643 724.48
133 55 00	1582 870.38	1598 090.84	1613 311.33	1628 531.86	1643 752.44
133 57 30	1582 903.42	1598 123.90	1613 344.41	1628 564.95	1643 785.54
134 00 00	1582 941.62	1598 162.12	1613 382.63	1628 603.18	1643 823.77
134 02 30	1582 984.98	1598 205.47	1613 426.00	1628 646.55	1643 867.14
134 05 00	1583 033.48	1598 253.99	1613 474.51	1628 695.07	1643 915.66
134 07 30	1583 087.15	1598 307.65	1613 528.17	1628 748.72	1643 969.30
134 10 00	1583 145.96	1598 366.46	1613 586.98	1628 807.52	1644 028.09
134 12 30	1583 209.94	1598 430.43	1613 650.93	1628 871.46	1644 092.02
134 15 00	1583 279.07	1598 499.55	1613 720.04	1628 940.55	1644 161.09
134 17 30	1583 353.36	1598 573.82	1613 794.29	1629 014.78	1644 235.30
134 20 00	1583 432.81	1598 653.25	1613 873.70	1629 094.17	1644 314.65
134 22 30	1583 517.42	1598 737.84	1613 958.26	1629 178.69	1644 399.15
134 25 00	1583 607.19	1598 827.57	1614 047.97	1629 268.37	1644 488.78
134 27 30	1583 702.11	1598 922.47	1614 142.82	1629 363.19	1644 583.57
134 30 00	1583 802.21	1599 022.52	1614 242.84	1629 463.17	1644 683.51
134 32 30	1583 907.46	1599 127.73	1614 348.01	1629 568.29	1644 788.57
134 35 00	1584 017.88	1599 238.10	1614 458.33	1629 678.56	1644 898.80
134 37 30	1584 133.45	1599 353.64	1614 573.81	1629 793.98	1645 014.16
134 40 00	1584 254.20	1599 474.33	1614 694.45	1629 914.56	1645 134.69
134 42 30	1584 380.11	1599 600.18	1614 820.24	1630 040.30	1645 260.35
134 45 00	1584 511.18	1599 731.19	1614 951.19	1630 171.18	1645 391.16
134 47 30	1584 647.43	1599 867.37	1615 087.30	1630 307.22	1645 527.13
134 50 00	1584 788.83	1600 008.71	1615 228.56	1630 448.41	1645 668.25
134 52 30	1584 935.41	1600 155.21	1615 374.99	1630 594.76	1645 814.51
134 55 00	1585 087.15	1600 306.88	1615 526.58	1630 746.26	1645 965.93
134 57 30	1585 244.07	1600 463.72	1615 683.33	1630 902.93	1646 122.50
135 00 00	1585 406.16	1600 625.72	1615 845.24	1631 064.75	1646 284.23

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	56 20 00	56 22 30	56 25 00	56 27 30	56 30 00
130 30 00	3328 031.50	3327 332.39	3326 633.09	3325 933.61	3325 233.95
130 32 30	3319 583.88	3318 893.91	3318 203.77	3317 513.45	3316 822.94
130 35 00	3311 136.08	3310 455.26	3309 774.27	3309 093.10	3308 411.75
130 37 30	3302 688.10	3302 016.42	3301 344.59	3300 672.58	3300 000.39
130 40 00	3294 239.94	3293 577.42	3292 914.74	3292 251.89	3291 588.86
130 42 30	3285 791.60	3285 138.24	3284 484.71	3283 831.02	3283 177.16
130 45 00	3277 343.09	3276 698.88	3276 054.51	3275 409.98	3274 765.28
130 47 30	3268 894.42	3268 259.37	3267 624.15	3266 988.78	3266 353.25
130 50 00	3260 445.58	3259 819.67	3259 193.62	3258 567.41	3257 941.05
130 52 30	3251 996.56	3251 379.82	3250 762.93	3250 145.88	3249 528.68
130 55 00	3243 547.39	3242 939.81	3242 332.08	3241 724.20	3241 116.17
130 57 30	3235 098.05	3234 499.62	3233 901.06	3233 302.35	3232 703.49
131 00 00	3226 648.55	3226 059.29	3225 469.88	3224 880.34	3224 290.65
131 02 30	3218 198.90	3217 618.80	3217 038.56	3216 458.19	3215 877.67
131 05 00	3209 749.09	3209 178.15	3208 607.08	3208 035.87	3207 464.53
131 07 30	3201 299.13	3200 737.36	3200 175.45	3199 613.41	3199 051.24
131 10 00	3192 849.01	3192 296.40	3191 743.67	3191 190.81	3190 637.81
131 12 30	3184 398.74	3183 855.30	3183 311.73	3182 768.05	3182 224.23
131 15 00	3175 948.34	3175 414.06	3174 879.67	3174 345.15	3173 810.51
131 17 30	3167 497.78	3166 972.67	3166 447.45	3165 922.11	3165 396.65
131 20 00	3159 047.07	3158 531.13	3158 015.09	3157 498.93	3156 982.65
131 22 30	3150 596.23	3150 089.47	3149 582.60	3149 075.61	3148 568.51
131 25 00	3142 145.25	3141 647.66	3141 149.96	3140 652.16	3140 154.24
131 27 30	3133 694.13	3133 205.72	3132 717.20	3132 228.57	3131 739.84
131 30 00	3125 242.88	3124 763.64	3124 284.30	3123 804.85	3123 325.31
131 32 30	3116 791.49	3116 321.43	3115 851.27	3115 381.01	3114 910.64
131 35 00	3108 339.98	3107 879.09	3107 418.11	3106 957.03	3106 495.86
131 37 30	3099 888.34	3099 436.63	3098 984.83	3098 532.94	3098 080.95
131 40 00	3091 436.57	3090 994.04	3090 551.42	3090 108.71	3089 665.91
131 42 30	3082 984.67	3082 551.32	3082 117.89	3081 684.37	3081 250.76
131 45 00	3074 532.66	3074 108.49	3073 684.25	3073 259.91	3072 835.49
131 47 30	3066 080.52	3065 665.54	3065 250.48	3064 835.34	3064 420.11
131 50 00	3057 628.27	3057 222.47	3056 816.60	3056 410.65	3056 004.62
131 52 30	3049 175.90	3048 779.29	3048 382.61	3047 985.85	3047 589.01
131 55 00	3040 723.41	3040 335.99	3039 948.50	3039 560.94	3039 173.30
131 57 30	3032 270.82	3031 892.58	3031 514.28	3031 135.92	3030 757.47
132 00 00	3023 818.13	3023 449.08	3023 079.97	3022 710.80	3022 341.55
132 02 30	3015 365.31	3015 005.45	3014 645.55	3014 285.56	3013 925.52
132 05 00	3006 912.39	3006 561.73	3006 211.01	3005 860.23	3005 509.39
132 07 30	2998 459.38	2998 117.91	2997 776.39	2997 434.81	2997 093.17
132 10 00	2990 006.26	2989 673.99	2989 341.66	2989 009.28	2988 676.85
132 12 30	2981 553.05	2981 229.97	2980 906.84	2980 583.66	2980 260.43
132 15 00	2973 099.74	2972 785.86	2972 471.93	2972 157.95	2971 843.93
132 17 30	2964 646.33	2964 341.64	2964 036.92	2963 732.15	2963 427.32
132 20 00	2956 192.83	2955 897.34	2955 601.82	2955 306.25	2955 010.65
132 22 30	2947 739.24	2947 452.96	2947 166.64	2946 880.28	2946 593.88
132 25 00	2939 285.56	2939 008.48	2938 731.37	2938 454.21	2938 177.02
132 27 30	2930 831.81	2930 563.92	2930 296.01	2930 028.07	2929 760.10
132 30 00	2922 377.96	2922 119.29	2921 860.59	2921 601.86	2921 343.09
132 32 30	2913 924.04	2913 674.57	2913 425.07	2913 175.55	2912 926.00
132 35 00	2905 470.03	2905 229.77	2904 989.48	2904 749.17	2904 508.84
132 37 30	2897 015.95	2896 784.90	2896 553.82	2896 322.73	2896 091.61
132 40 00	2888 561.80	2888 339.95	2888 118.09	2887 896.21	2887 674.31
132 42 30	2880 107.57	2879 894.93	2879 682.29	2879 469.62	2879 256.94
132 45 00	2871 653.28	2871 449.85	2871 246.41	2871 042.97	2870 839.51
132 47 30	2863 198.91	2863 004.69	2862 810.48	2862 616.25	2862 422.01
132 50 00	2854 744.48	2854 559.47	2854 374.47	2854 189.47	2854 004.45
132 52 30	2846 289.98	2846 114.20	2845 938.42	2845 762.63	2845 586.84
132 55 00	2837 835.43	2837 668.86	2837 502.30	2837 335.73	2837 169.17
132 57 30	2829 380.82	2829 223.47	2829 066.12	2828 908.78	2828 751.44
133 00 00	2820 926.14	2820 778.01	2820 629.89	2820 481.77	2820 333.66

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	56 20 00	56 22 30	56 25 00	56 27 30	56 30 00
130 30 00	1658 453.13	1673 659.73	1688 866.54	1704 073.57	1719 280.80
130 32 30	1658 067.34	1673 274.27	1688 481.40	1703 688.75	1718 896.31
130 35 00	1657 686.64	1672 893.89	1688 101.34	1703 309.01	1718 516.89
130 37 30	1657 311.02	1672 518.58	1687 726.36	1702 934.34	1718 142.53
130 40 00	1656 940.48	1672 148.36	1687 356.44	1702 564.74	1717 773.24
130 42 30	1656 575.02	1671 783.22	1686 991.61	1702 200.21	1717 409.02
130 45 00	1656 214.65	1671 423.15	1686 631.85	1701 840.75	1717 049.87
130 47 30	1655 859.36	1671 068.17	1686 277.16	1701 486.37	1716 695.78
130 50 00	1655 509.16	1670 718.27	1685 927.57	1701 137.06	1716 346.77
130 52 30	1655 164.04	1670 373.45	1685 583.04	1700 792.84	1716 002.83
130 55 00	1654 824.01	1670 033.71	1685 243.59	1700 453.68	1715 663.95
130 57 30	1654 489.06	1669 699.05	1684 909.23	1700 119.60	1715 330.16
131 00 00	1654 159.21	1669 369.48	1684 579.94	1699 790.59	1715 001.43
131 02 30	1653 834.45	1669 045.00	1684 255.73	1699 466.66	1714 677.78
131 05 00	1653 514.77	1668 725.60	1683 936.61	1699 147.81	1714 359.20
131 07 30	1653 200.17	1668 411.28	1683 622.56	1698 834.04	1714 045.70
131 10 00	1652 890.68	1668 102.06	1683 313.61	1698 525.34	1713 737.27
131 12 30	1652 586.28	1667 797.91	1683 009.73	1698 221.73	1713 433.92
131 15 00	1652 286.96	1667 498.86	1682 710.94	1697 923.20	1713 135.64
131 17 30	1651 992.74	1667 204.90	1682 417.23	1697 629.75	1712 842.44
131 20 00	1651 703.61	1666 916.03	1682 128.61	1697 341.38	1712 554.32
131 22 30	1651 419.57	1666 632.24	1681 845.08	1697 058.09	1712 271.28
131 25 00	1651 140.63	1666 353.55	1681 566.63	1696 779.89	1711 993.32
131 27 30	1650 866.79	1666 079.95	1681 293.27	1696 506.76	1711 720.43
131 30 00	1650 598.04	1665 811.44	1681 025.00	1696 238.73	1711 452.63
131 32 30	1650 334.39	1665 548.02	1680 761.81	1695 975.78	1711 189.91
131 35 00	1650 075.83	1665 289.70	1680 503.72	1695 717.91	1710 932.27
131 37 30	1649 822.37	1665 036.47	1680 250.71	1695 465.13	1710 679.72
131 40 00	1649 574.01	1664 788.33	1680 002.80	1695 217.44	1710 432.24
131 42 30	1649 330.75	1664 545.29	1679 759.98	1694 974.84	1710 189.85
131 45 00	1649 092.59	1664 307.35	1679 522.25	1694 737.32	1709 952.54
131 47 30	1648 859.52	1664 074.50	1679 289.61	1694 504.89	1709 720.32
131 50 00	1648 631.56	1663 846.75	1679 062.07	1694 277.55	1709 493.19
131 52 30	1648 408.71	1663 624.09	1678 839.61	1694 055.30	1709 271.14
131 55 00	1648 190.96	1663 406.54	1678 622.26	1693 838.14	1709 054.17
131 57 30	1647 978.30	1663 194.09	1678 410.00	1693 626.07	1708 842.30
132 00 00	1647 770.75	1662 986.73	1678 202.84	1693 419.10	1708 635.51
132 02 30	1647 568.31	1662 784.47	1678 000.77	1693 217.22	1708 433.81
132 05 00	1647 370.97	1662 587.31	1677 803.80	1693 020.43	1708 237.21
132 07 30	1647 178.73	1662 395.27	1677 611.93	1692 828.74	1708 045.69
132 10 00	1646 991.61	1662 208.32	1677 425.16	1692 642.14	1707 859.26
132 12 30	1646 809.59	1662 026.47	1677 243.48	1692 460.64	1707 677.93
132 15 00	1646 632.68	1661 849.73	1677 066.91	1692 284.23	1707 501.68
132 17 30	1646 460.87	1661 678.09	1676 895.44	1692 112.92	1707 330.54
132 20 00	1646 294.18	1661 511.56	1676 729.07	1691 946.70	1707 164.48
132 22 30	1646 132.60	1661 350.14	1676 567.80	1691 785.60	1707 003.52
132 25 00	1645 976.12	1661 193.82	1676 411.63	1691 629.58	1706 847.65
132 27 30	1645 824.76	1661 042.61	1676 260.57	1691 478.66	1706 696.88
132 30 00	1645 678.51	1660 896.50	1676 114.61	1691 332.84	1706 551.20
132 32 30	1645 537.37	1660 755.51	1675 973.75	1691 192.13	1706 410.62
132 35 00	1645 401.35	1660 619.62	1675 838.00	1691 056.51	1706 275.14
132 37 30	1645 270.44	1660 488.84	1675 707.36	1690 926.00	1706 144.76
132 40 00	1645 144.64	1660 363.18	1675 581.83	1690 800.59	1706 019.47
132 42 30	1645 023.95	1660 242.63	1675 461.39	1690 680.28	1705 899.29
132 45 00	1644 908.39	1660 127.18	1675 346.08	1690 565.08	1705 784.20
132 47 30	1644 797.94	1660 016.85	1675 235.86	1690 454.99	1705 674.22
132 50 00	1644 692.61	1659 911.64	1675 130.76	1690 350.00	1705 569.34
132 52 30	1644 592.40	1659 811.54	1675 030.76	1690 250.11	1705 469.56
132 55 00	1644 497.30	1659 716.55	1674 935.89	1690 155.33	1705 374.88
132 57 30	1644 407.33	1659 626.67	1674 846.11	1690 065.66	1705 285.30
133 00 00	1644 322.47	1659 541.92	1674 761.45	1689 981.10	1705 200.83

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	56 20 00	56 22 30	56 25 00	56 27 30	56 30 00
133 00 00	2820 926.14	2820 778.01	2820 629.89	2820 481.77	2820 333.66
133 02 30	2812 471.41	2812 332.50	2812 193.60	2812 054.71	2811 915.83
133 05 00	2804 016.64	2803 886.94	2803 757.27	2803 627.61	2803 497.96
133 07 30	2795 561.81	2795 441.33	2795 320.89	2795 200.46	2795 080.04
133 10 00	2787 106.93	2786 995.68	2786 884.46	2786 773.26	2786 662.07
133 12 30	2778 652.01	2778 549.98	2778 447.99	2778 346.02	2778 244.06
133 15 00	2770 197.04	2770 104.24	2770 011.48	2769 918.74	2769 826.02
133 17 30	2761 742.03	2761 658.46	2761 574.92	2761 491.42	2761 407.94
133 20 00	2753 286.98	2753 212.64	2753 138.34	2753 064.06	2752 989.82
133 22 30	2744 831.90	2744 766.78	2744 701.72	2744 636.68	2744 571.68
133 25 00	2736 376.77	2736 320.90	2736 265.06	2736 209.26	2736 153.49
133 27 30	2727 921.62	2727 874.98	2727 828.38	2727 781.81	2727 735.29
133 30 00	2719 466.43	2719 429.02	2719 391.66	2719 354.33	2719 317.05
133 32 30	2711 011.22	2710 983.05	2710 954.92	2710 926.84	2710 898.80
133 35 00	2702 555.99	2702 537.05	2702 518.16	2702 499.33	2702 480.53
133 37 30	2694 100.73	2694 091.03	2694 081.37	2694 071.78	2694 062.23
133 40 00	2685 645.44	2685 644.98	2685 644.57	2685 644.22	2685 643.92
133 42 30	2677 190.14	2677 198.92	2677 207.75	2677 216.65	2677 225.60
133 45 00	2668 734.82	2668 752.84	2668 770.92	2668 789.06	2668 807.26
133 47 30	2660 279.49	2660 306.75	2660 334.07	2660 361.47	2660 388.91
133 50 00	2651 824.15	2651 860.65	2651 897.22	2651 933.86	2651 970.56
133 52 30	2643 368.79	2643 414.54	2643 460.36	2643 506.25	2643 552.20
133 55 00	2634 913.42	2634 968.41	2635 023.49	2635 078.63	2635 133.83
133 57 30	2626 458.06	2626 522.30	2626 586.62	2626 651.02	2626 715.48
134 00 00	2618 002.68	2618 076.17	2618 149.74	2618 223.40	2618 297.12
134 02 30	2609 547.31	2609 630.05	2609 712.87	2609 795.77	2609 878.75
134 05 00	2601 091.94	2601 183.93	2601 276.00	2601 368.17	2601 460.40
134 07 30	2592 636.56	2592 737.81	2592 839.15	2592 940.56	2593 042.06
134 10 00	2584 181.20	2584 291.70	2584 402.29	2584 512.96	2584 623.73
134 12 30	2575 725.85	2575 845.60	2575 965.45	2576 085.38	2576 205.42
134 15 00	2567 270.50	2567 399.51	2567 528.61	2567 657.82	2567 787.11
134 17 30	2558 815.16	2558 953.43	2559 091.80	2559 230.26	2559 368.81
134 20 00	2550 359.85	2550 507.37	2550 655.00	2550 802.73	2550 950.55
134 22 30	2541 904.54	2542 061.33	2542 218.22	2542 375.21	2542 532.31
134 25 00	2533 449.26	2533 615.30	2533 781.46	2533 947.72	2534 114.08
134 27 30	2524 994.00	2525 169.31	2525 344.73	2525 520.26	2525 695.89
134 30 00	2516 538.76	2516 723.34	2516 908.02	2517 092.82	2517 277.72
134 32 30	2508 083.55	2508 277.38	2508 471.34	2508 665.41	2508 859.59
134 35 00	2499 628.37	2499 831.47	2500 034.70	2500 238.04	2500 441.49
134 37 30	2491 173.22	2491 385.59	2491 598.08	2491 810.70	2492 023.42
134 40 00	2482 718.10	2482 939.74	2483 161.50	2483 383.39	2483 605.39
134 42 30	2474 263.01	2474 493.93	2474 724.97	2474 956.13	2475 187.41
134 45 00	2465 807.97	2466 048.15	2466 288.46	2466 528.90	2466 769.46
134 47 30	2457 352.96	2457 602.41	2457 852.00	2458 101.72	2458 351.56
134 50 00	2448 897.99	2449 156.73	2449 415.59	2449 674.59	2449 933.71
134 52 30	2440 443.08	2440 711.08	2440 979.22	2441 247.50	2441 515.91
134 55 00	2431 988.20	2432 265.49	2432 542.91	2432 820.47	2433 098.16
134 57 30	2423 533.38	2423 819.94	2424 106.64	2424 393.48	2424 680.46
135 00 00	2415 078.60	2415 374.44	2415 670.43	2415 966.56	2416 262.82
135 02 30	2406 623.89	2406 929.01	2407 234.28	2407 539.69	2407 845.24
135 05 00	2398 169.23	2398 483.62	2398 798.18	2399 112.88	2399 427.72
135 07 30	2389 714.62	2390 038.30	2390 362.14	2390 686.13	2391 010.26
135 10 00	2381 260.08	2381 593.05	2381 926.17	2382 259.45	2382 592.87
135 12 30	2372 805.60	2373 147.86	2373 490.27	2373 832.83	2374 175.55
135 15 00	2364 351.19	2364 702.72	2365 054.42	2365 406.28	2365 758.30
135 17 30	2355 896.84	2356 257.67	2356 618.66	2356 979.81	2357 341.12
135 20 00	2347 442.56	2347 812.68	2348 182.96	2348 553.41	2348 924.01
135 22 30	2338 988.36	2339 367.77	2339 747.34	2340 127.08	2340 506.99
135 25 00	2330 534.23	2330 922.93	2331 311.80	2331 700.84	2332 090.04
135 27 30	2322 080.18	2322 478.17	2322 876.34	2323 274.67	2323 673.18
135 30 00	2313 626.21	2314 033.49	2314 440.95	2314 848.59	2315 256.40

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	56 20 00	56 22 30	56 25 00	56 27 30	56 30 00
133 00 00	1644 322.47	1659 541.92	1674 761.45	1689 981.10	1705 200.83
133 02 30	1644 242.74	1659 462.28	1674 681.91	1689 901.64	1705 121.47
133 05 00	1644 168.13	1659 387.76	1674 607.48	1689 827.30	1705 047.21
133 07 30	1644 098.63	1659 318.36	1674 538.16	1689 758.06	1704 978.06
133 10 00	1644 034.26	1659 254.07	1674 473.96	1689 693.94	1704 914.01
133 12 30	1643 975.02	1659 194.91	1674 414.87	1689 634.93	1704 855.07
133 15 00	1643 920.90	1659 140.86	1674 360.90	1689 581.03	1704 801.24
133 17 30	1643 871.91	1659 091.94	1674 312.05	1689 532.24	1704 752.52
133 20 00	1643 828.04	1659 048.14	1674 268.31	1689 488.57	1704 708.91
133 22 30	1643 789.29	1659 009.46	1674 229.69	1689 450.01	1704 670.41
133 25 00	1643 755.68	1658 975.90	1674 196.19	1689 416.57	1704 637.02
133 27 30	1643 727.19	1658 947.47	1674 167.81	1689 388.24	1704 608.74
133 30 00	1643 703.83	1658 924.16	1674 144.56	1689 365.03	1704 585.57
133 32 30	1643 685.60	1658 905.98	1674 126.41	1689 346.93	1704 567.52
133 35 00	1643 672.50	1658 892.92	1674 113.40	1689 333.95	1704 554.57
133 37 30	1643 664.52	1658 884.99	1674 105.50	1689 326.09	1704 546.75
133 40 00	1643 661.69	1658 882.18	1674 102.73	1689 323.36	1704 544.04
133 42 30	1643 663.98	1658 884.51	1674 105.09	1689 325.74	1704 546.44
133 45 00	1643 671.40	1658 891.96	1674 112.56	1689 333.24	1704 553.96
133 47 30	1643 683.96	1658 904.54	1674 125.16	1689 345.85	1704 566.60
133 50 00	1643 701.65	1658 922.25	1674 142.89	1689 363.60	1704 584.35
133 52 30	1643 724.48	1658 945.09	1674 165.75	1689 386.46	1704 607.23
133 55 00	1643 752.44	1658 973.07	1674 193.73	1689 414.45	1704 635.22
133 57 30	1643 785.54	1659 006.17	1674 226.84	1689 447.56	1704 668.34
134 00 00	1643 823.77	1659 044.41	1674 265.08	1689 485.80	1704 706.57
134 02 30	1643 867.14	1659 087.78	1674 308.44	1689 529.16	1704 749.92
134 05 00	1643 915.66	1659 136.28	1674 356.94	1689 577.65	1704 798.40
134 07 30	1643 969.30	1659 189.92	1674 410.57	1689 631.27	1704 852.00
134 10 00	1644 028.09	1659 248.70	1674 469.33	1689 690.01	1704 910.72
134 12 30	1644 092.02	1659 312.61	1674 533.22	1689 753.87	1704 974.56
134 15 00	1644 161.09	1659 381.65	1674 602.24	1689 822.87	1705 043.54
134 17 30	1644 235.30	1659 455.84	1674 676.40	1689 897.00	1705 117.63
134 20 00	1644 314.65	1659 535.17	1674 755.69	1689 976.26	1705 196.85
134 22 30	1644 399.15	1659 619.63	1674 840.12	1690 060.65	1705 281.20
134 25 00	1644 488.78	1659 709.23	1674 929.68	1690 150.16	1705 370.67
134 27 30	1644 583.57	1659 803.97	1675 024.38	1690 244.81	1705 465.27
134 30 00	1644 683.51	1659 903.85	1675 124.22	1690 344.60	1705 565.00
134 32 30	1644 788.57	1660 008.88	1675 229.19	1690 449.51	1705 669.86
134 35 00	1644 898.80	1660 119.05	1675 339.30	1690 559.57	1705 779.85
134 37 30	1645 014.16	1660 234.36	1675 454.55	1690 674.75	1705 894.97
134 40 00	1645 134.69	1660 354.81	1675 574.94	1690 795.08	1706 015.23
134 42 30	1645 260.35	1660 480.41	1675 700.47	1690 920.54	1706 140.61
134 45 00	1645 391.16	1660 611.16	1675 831.14	1691 051.13	1706 271.13
134 47 30	1645 527.13	1660 747.04	1675 966.95	1691 186.87	1706 406.77
134 50 00	1645 668.25	1660 888.08	1676 107.90	1691 327.74	1706 547.56
134 52 30	1645 814.51	1661 034.27	1676 254.00	1691 473.74	1706 693.48
134 55 00	1645 965.93	1661 185.59	1676 405.24	1691 624.89	1706 844.54
134 57 30	1646 122.50	1661 342.08	1676 561.63	1691 781.18	1707 000.73
135 00 00	1646 284.23	1661 503.71	1676 723.16	1691 942.61	1707 162.05
135 02 30	1646 451.11	1661 670.49	1676 889.84	1692 109.18	1707 328.52
135 05 00	1646 623.15	1661 842.42	1677 061.66	1692 280.90	1707 500.13
135 07 30	1646 800.34	1662 019.50	1677 238.63	1692 457.76	1707 676.87
135 10 00	1646 982.68	1662 201.73	1677 420.76	1692 639.76	1707 858.75
135 12 30	1647 170.19	1662 389.12	1677 608.02	1692 826.91	1708 045.77
135 15 00	1647 362.85	1662 581.66	1677 800.44	1693 019.20	1708 237.94
135 17 30	1647 560.67	1662 779.36	1677 998.01	1693 216.63	1708 435.24
135 20 00	1647 763.65	1662 982.21	1678 200.73	1693 419.22	1708 637.69
135 22 30	1647 971.79	1663 190.22	1678 408.60	1693 626.95	1708 845.28
135 25 00	1648 185.10	1663 403.38	1678 621.62	1693 839.83	1709 058.01
135 27 30	1648 403.56	1663 621.70	1678 839.80	1694 057.86	1709 275.89
135 30 00	1648 627.18	1663 845.18	1679 063.12	1694 281.04	1709 498.91

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	56 30 00	56 32 30	56 35 00	56 37 30	56 40 00
131 00 00	3224 290.65	3223 700.81	3223 110.81	3222 520.66	3221 930.35
131 02 30	3215 877.67	3215 297.00	3214 716.18	3214 135.21	3213 554.08
131 05 00	3207 464.53	3206 893.04	3206 321.40	3205 749.61	3205 177.67
131 07 30	3199 051.24	3198 488.93	3197 926.48	3197 363.87	3196 801.11
131 10 00	3190 637.81	3190 084.67	3189 531.40	3188 977.98	3188 424.41
131 12 30	3182 224.23	3181 680.27	3181 136.18	3180 591.95	3180 047.57
131 15 00	3173 810.51	3173 275.74	3172 740.83	3172 205.78	3171 670.60
131 17 30	3165 396.65	3164 871.06	3164 345.33	3163 819.48	3163 293.48
131 20 00	3156 982.65	3156 466.24	3155 949.70	3155 433.03	3154 916.23
131 22 30	3148 568.51	3148 061.29	3147 553.94	3147 046.46	3146 538.85
131 25 00	3140 154.24	3139 656.20	3139 158.04	3138 659.76	3138 161.34
131 27 30	3131 739.84	3131 250.98	3130 762.02	3130 272.92	3129 783.71
131 30 00	3123 325.31	3122 845.64	3122 365.86	3121 885.97	3121 405.95
131 32 30	3114 910.64	3114 440.17	3113 969.59	3113 498.88	3113 028.06
131 35 00	3106 495.86	3106 034.57	3105 573.18	3105 111.68	3104 650.05
131 37 30	3098 080.95	3097 628.86	3097 176.66	3096 724.35	3096 271.93
131 40 00	3089 665.91	3089 223.01	3088 780.01	3088 336.90	3087 893.69
131 42 30	3081 250.76	3080 817.06	3080 383.25	3079 949.34	3079 515.32
131 45 00	3072 835.49	3072 410.99	3071 986.38	3071 561.67	3071 136.86
131 47 30	3064 420.11	3064 004.80	3063 589.39	3063 173.89	3062 758.28
131 50 00	3056 004.62	3055 598.50	3055 192.29	3054 785.99	3054 379.59
131 52 30	3047 589.01	3047 192.09	3046 795.09	3046 397.99	3046 000.80
131 55 00	3039 173.30	3038 785.58	3038 397.77	3038 009.89	3037 621.90
131 57 30	3030 757.47	3030 378.95	3030 000.35	3029 621.67	3029 242.90
132 00 00	3022 341.55	3021 972.24	3021 602.84	3021 233.37	3020 863.80
132 02 30	3013 925.52	3013 565.41	3013 205.22	3012 844.96	3012 484.61
132 05 00	3005 509.39	3005 158.48	3004 807.50	3004 456.45	3004 105.31
132 07 30	2997 093.17	2996 751.47	2996 409.70	2996 067.85	2995 725.93
132 10 00	2988 676.85	2988 344.35	2988 011.79	2987 679.16	2987 346.45
132 12 30	2980 260.43	2979 937.14	2979 613.79	2979 290.37	2978 966.89
132 15 00	2971 843.93	2971 529.85	2971 215.71	2970 901.51	2970 587.24
132 17 30	2963 427.32	2963 122.46	2962 817.53	2962 512.55	2962 207.50
132 20 00	2955 010.65	2954 714.99	2954 419.27	2954 123.51	2953 827.68
132 22 30	2946 593.88	2946 307.43	2946 020.94	2945 734.39	2945 447.79
132 25 00	2938 177.02	2937 899.80	2937 622.52	2937 345.19	2937 067.81
132 27 30	2929 760.10	2929 492.08	2929 224.02	2928 955.91	2928 687.75
132 30 00	2921 343.09	2921 084.29	2920 825.45	2920 566.56	2920 307.63
132 32 30	2912 926.00	2912 676.42	2912 426.80	2912 177.14	2911 927.43
132 35 00	2904 508.84	2904 268.48	2904 028.08	2903 787.64	2903 547.17
132 37 30	2896 091.61	2895 860.47	2895 629.30	2895 398.08	2895 166.83
132 40 00	2887 674.31	2887 452.39	2887 230.44	2887 008.45	2886 786.43
132 42 30	2879 256.94	2879 044.24	2878 831.51	2878 618.76	2878 405.97
132 45 00	2870 839.51	2870 636.03	2870 432.53	2870 229.01	2870 025.45
132 47 30	2862 422.01	2862 227.76	2862 033.49	2861 839.19	2861 644.87
132 50 00	2854 004.45	2853 819.43	2853 634.38	2853 449.32	2853 264.23
132 52 30	2845 586.84	2845 411.04	2845 235.22	2845 059.40	2844 883.55
132 55 00	2837 169.17	2837 002.59	2836 836.01	2836 669.42	2836 502.80
132 57 30	2828 751.44	2828 594.10	2828 436.75	2828 279.39	2828 122.02
133 00 00	2820 333.66	2820 185.55	2820 037.43	2819 889.31	2819 741.17
133 02 30	2811 915.83	2811 776.95	2811 638.07	2811 499.18	2811 360.29
133 05 00	2803 497.96	2803 368.31	2803 238.67	2803 109.02	2802 979.37
133 07 30	2795 080.04	2794 959.62	2794 839.22	2794 718.81	2794 598.40
133 10 00	2786 662.07	2786 550.89	2786 439.72	2786 328.55	2786 217.39
133 12 30	2778 244.06	2778 142.12	2778 040.20	2777 938.27	2777 836.35
133 15 00	2769 826.02	2769 733.31	2769 640.63	2769 547.95	2769 455.28
133 17 30	2761 407.94	2761 324.47	2761 241.03	2761 157.59	2761 074.17
133 20 00	2752 989.82	2752 915.60	2752 841.39	2752 767.21	2752 693.03
133 22 30	2744 571.68	2744 506.69	2744 441.74	2744 376.79	2744 311.87
133 25 00	2736 153.49	2736 097.76	2736 042.04	2735 986.35	2735 930.68
133 27 30	2727 735.29	2727 688.80	2727 642.33	2727 595.89	2727 549.47
133 30 00	2719 317.05	2719 279.81	2719 242.59	2719 205.40	2719 168.23

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	56 30 00	56 32 30	56 35 00	56 37 30	56 40 00
131 00 00	1715 001.43	1730 212.49	1745 423.72	1760 635.16	1775 846.80
131 02 30	1714 677.78	1729 889.11	1745 100.62	1760 312.33	1775 524.24
131 05 00	1714 359.20	1729 570.80	1744 782.58	1759 994.56	1775 206.73
131 07 30	1714 045.70	1729 257.57	1744 469.60	1759 681.84	1774 894.28
131 10 00	1713 737.27	1728 949.39	1744 161.70	1759 374.20	1774 586.89
131 12 30	1713 433.92	1728 646.30	1743 858.86	1759 071.62	1774 284.56
131 15 00	1713 135.64	1728 348.28	1743 561.10	1758 774.10	1773 987.30
131 17 30	1712 842.44	1728 055.34	1743 268.40	1758 481.65	1773 695.10
131 20 00	1712 554.32	1727 767.46	1742 980.77	1758 194.27	1773 407.96
131 22 30	1712 271.28	1727 484.67	1742 698.21	1757 911.95	1773 125.87
131 25 00	1711 993.32	1727 206.94	1742 420.73	1757 634.70	1772 848.86
131 27 30	1711 720.43	1726 934.29	1742 148.31	1757 362.52	1772 576.91
131 30 00	1711 452.63	1726 666.73	1741 880.98	1757 095.41	1772 310.02
131 32 30	1711 189.91	1726 404.23	1741 618.71	1756 833.37	1772 048.21
131 35 00	1710 932.27	1726 146.81	1741 361.51	1756 576.39	1771 791.45
131 37 30	1710 679.72	1725 894.47	1741 109.40	1756 324.50	1771 539.76
131 40 00	1710 432.24	1725 647.22	1740 862.35	1756 077.66	1771 293.15
131 42 30	1710 189.85	1725 405.04	1740 620.39	1755 835.90	1771 051.60
131 45 00	1709 952.54	1725 167.94	1740 383.49	1755 599.23	1770 815.12
131 47 30	1709 720.32	1724 935.93	1740 151.68	1755 367.61	1770 583.70
131 50 00	1709 493.19	1724 708.99	1739 924.95	1755 141.08	1770 357.36
131 52 30	1709 271.14	1724 487.14	1739 703.30	1754 919.61	1770 136.09
131 55 00	1709 054.17	1724 270.37	1739 486.71	1754 703.22	1769 919.89
131 57 30	1708 842.30	1724 058.69	1739 275.22	1754 491.91	1769 708.76
132 00 00	1708 635.51	1723 852.09	1739 068.80	1754 285.67	1769 502.70
132 02 30	1708 433.81	1723 650.57	1730 867.47	1754 084.52	1769 301.72
132 05 00	1708 237.21	1723 454.14	1738 671.21	1753 888.43	1769 105.82
132 07 30	1708 045.69	1723 262.80	1738 480.04	1753 697.44	1768 914.99
132 10 00	1707 859.26	1723 076.54	1738 293.95	1753 511.52	1768 729.23
132 12 30	1707 677.93	1722 895.37	1738 112.94	1753 330.67	1768 548.55
132 15 00	1707 501.68	1722 719.29	1737 937.02	1753 154.91	1768 372.93
132 17 30	1707 330.54	1722 548.30	1737 766.19	1752 984.23	1768 202.41
132 20 00	1707 164.48	1722 382.40	1737 600.44	1752 818.63	1768 036.96
132 22 30	1707 003.52	1722 221.59	1737 439.78	1752 658.11	1767 876.59
132 25 00	1706 847.65	1722 065.86	1737 284.20	1752 502.68	1767 721.29
132 27 30	1706 696.88	1721 915.23	1737 133.71	1752 352.33	1767 571.08
132 30 00	1706 551.20	1721 769.70	1736 988.31	1752 207.07	1767 425.95
132 32 30	1706 410.62	1721 629.26	1736 848.00	1752 066.88	1767 285.89
132 35 00	1706 275.14	1721 493.90	1736 712.78	1751 931.79	1767 150.92
132 37 30	1706 144.76	1721 363.64	1736 582.65	1751 801.78	1767 021.04
132 40 00	1706 019.47	1721 238.48	1736 457.61	1751 676.85	1766 896.23
132 42 30	1705 899.29	1721 118.42	1736 337.66	1751 557.02	1766 776.51
132 45 00	1705 784.20	1721 003.45	1736 222.80	1751 442.27	1766 661.87
132 47 30	1705 674.22	1720 893.58	1736 113.04	1751 332.62	1766 552.32
132 50 00	1705 569.34	1720 788.80	1736 008.37	1751 228.06	1766 447.85
132 52 30	1705 469.56	1720 689.12	1735 908.79	1751 128.57	1766 348.48
132 55 00	1705 374.88	1720 594.54	1735 814.31	1751 034.19	1766 254.18
132 57 30	1705 285.30	1720 505.07	1735 724.93	1750 944.89	1766 164.97
133 00 00	1705 200.83	1720 420.69	1735 640.64	1750 860.69	1766 080.85
133 02 30	1705 121.47	1720 341.41	1735 561.44	1750 781.58	1766 001.83
133 05 00	1705 047.21	1720 267.24	1735 487.35	1750 707.56	1765 927.89
133 07 30	1704 978.06	1720 198.16	1735 418.35	1750 638.64	1765 859.04
133 10 00	1704 914.01	1720 134.19	1735 354.46	1750 574.81	1765 795.28
133 12 30	1704 855.07	1720 075.32	1735 295.65	1750 516.08	1765 736.61
133 15 00	1704 801.24	1720 021.56	1735 241.96	1750 462.45	1765 683.04
133 17 30	1704 752.52	1719 972.90	1735 193.35	1750 413.91	1765 634.56
133 20 00	1704 708.91	1719 929.35	1735 149.86	1750 370.47	1765 591.17
133 22 30	1704 670.41	1719 890.90	1735 111.47	1750 332.13	1765 552.88
133 25 00	1704 637.02	1719 857.56	1735 078.17	1750 298.88	1765 519.67
133 27 30	1704 608.74	1719 829.33	1735 049.99	1750 270.74	1765 491.57
133 30 00	1704 585.57	1719 806.20	1735 026.91	1750 247.69	1765 468.56

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	56 30 00	56 32 30	56 35 00	56 37 30	56 40 00
133 30 00	2719 317.05	2719 279.81	2719 242.59	2719 205.40	2719 168.23
133 32 30	2710 898.80	2710 870.80	2710 842.83	2710 814.89	2710 786.98
133 35 00	2702 480.53	2702 461.77	2702 443.06	2702 424.37	2702 405.72
133 37 30	2694 062.23	2694 052.73	2694 043.26	2694 033.83	2694 024.43
133 40 00	2685 643.92	2685 643.67	2685 643.45	2685 643.28	2685 643.14
133 42 30	2677 225.60	2677 234.60	2677 243.64	2677 252.72	2677 261.84
133 45 00	2668 807.26	2668 825.51	2668 843.81	2668 862.15	2668 880.53
133 47 30	2660 388.91	2660 416.41	2660 443.97	2660 471.57	2660 499.21
133 50 00	2651 970.56	2652 007.32	2652 044.13	2652 080.99	2652 117.90
133 52 30	2643 552.20	2643 598.22	2643 644.28	2643 690.41	2643 736.58
133 55 00	2635 133.83	2635 189.11	2635 244.44	2635 299.82	2635 355.26
133 57 30	2626 715.48	2626 780.01	2626 844.60	2626 909.25	2626 973.96
134 00 00	2618 297.12	2618 370.91	2618 444.76	2618 518.68	2618 592.65
134 02 30	2609 878.75	2609 961.80	2610 044.92	2610 128.11	2610 211.35
134 05 00	2601 460.40	2601 552.72	2601 645.11	2601 737.56	2601 830.07
134 07 30	2593 042.06	2593 143.64	2593 245.29	2593 347.01	2593 448.80
134 10 00	2584 623.73	2584 734.57	2584 845.49	2584 956.48	2585 067.54
134 12 30	2576 205.42	2576 325.52	2576 445.71	2576 565.97	2576 686.31
134 15 00	2567 787.11	2567 916.48	2568 045.94	2568 175.47	2568 305.08
134 17 30	2559 368.81	2559 507.46	2559 646.19	2559 785.00	2559 923.89
134 20 00	2550 950.55	2551 098.47	2551 246.47	2551 394.55	2551 542.72
134 22 30	2542 532.31	2542 689.49	2542 846.77	2543 004.13	2543 161.57
134 25 00	2534 114.08	2534 280.54	2534 447.09	2534 613.73	2534 780.46
134 27 30	2525 695.89	2525 871.62	2526 047.45	2526 223.37	2526 399.37
134 30 00	2517 277.72	2517 462.73	2517 647.83	2517 833.03	2518 018.32
134 32 30	2508 859.59	2509 053.87	2509 248.25	2509 442.73	2509 637.31
134 35 00	2500 441.49	2500 645.05	2500 848.71	2501 052.47	2501 256.34
134 37 30	2492 023.42	2492 236.26	2492 449.20	2492 662.25	2492 875.39
134 40 00	2483 605.39	2483 827.51	2484 049.73	2484 272.07	2484 494.50
134 42 30	2475 187.41	2475 418.81	2475 650.31	2475 881.93	2476 113.65
134 45 00	2466 769.46	2467 010.14	2467 250.94	2467 491.84	2467 732.86
134 47 30	2458 351.56	2458 601.52	2458 851.60	2459 101.80	2459 352.10
134 50 00	2449 933.71	2450 192.96	2450 452.33	2450 711.81	2450 971.41
134 52 30	2441 515.91	2441 784.44	2442 053.09	2442 321.87	2442 590.76
134 55 00	2433 098.16	2433 375.98	2433 653.93	2433 932.00	2434 210.18
134 57 30	2424 680.46	2424 967.57	2425 254.81	2425 542.17	2425 829.65
135 00 00	2416 262.82	2416 559.22	2416 855.75	2417 152.41	2417 449.18
135 02 30	2407 845.24	2408 150.93	2408 456.76	2408 762.71	2409 068.79
135 05 00	2399 427.72	2399 742.70	2400 057.82	2400 373.07	2400 688.45
135 07 30	2391 010.26	2391 334.53	2391 658.95	2391 983.50	2392 308.18
135 10 00	2382 592.87	2382 926.44	2383 260.15	2383 594.00	2383 927.99
135 12 30	2374 175.55	2374 518.42	2374 861.42	2375 204.58	2375 547.86
135 15 00	2365 758.30	2366 110.46	2366 462.77	2366 815.22	2367 167.81
135 17 30	2357 341.12	2357 702.58	2358 064.19	2358 425.95	2358 787.84
135 20 00	2348 924.01	2349 294.78	2349 665.69	2350 036.75	2350 407.95
135 22 30	2340 506.99	2340 887.05	2341 267.26	2341 647.63	2342 028.15
135 25 00	2332 090.04	2332 479.41	2332 868.93	2333 258.60	2333 648.42
135 27 30	2323 673.18	2324 071.84	2324 470.67	2324 869.65	2325 268.78
135 30 00	2315 256.40	2315 664.36	2316 072.50	2316 480.79	2316 889.24
135 32 30	2306 839.70	2307 256.98	2307 674.42	2308 092.03	2308 509.79
135 35 00	2298 423.10	2298 849.68	2299 276.44	2299 703.35	2300 130.42
135 37 30	2290 006.59	2290 442.48	2290 878.54	2291 314.77	2291 751.16
135 40 00	2281 590.17	2282 035.38	2282 480.75	2282 926.29	2283 372.00
135 42 30	2273 173.85	2273 628.36	2274 083.05	2274 537.91	2274 992.94
135 45 00	2264 757.63	2265 221.45	2265 685.45	2266 149.63	2266 613.97
135 47 30	2256 341.50	2256 814.65	2257 287.97	2257 761.46	2258 235.13
135 50 00	2247 925.49	2248 407.94	2248 890.57	2249 373.39	2249 856.38
135 52 30	2239 509.57	2240 001.34	2240 493.29	2240 985.43	2241 477.74
135 55 00	2231 093.77	2231 594.86	2232 096.13	2232 597.59	2233 099.23
135 57 30	2222 678.07	2223 188.48	2223 699.07	2224 209.85	2224 720.82
136 00 00	2214 262.49	2214 782.22	2215 302.13	2215 822.24	2216 342.53

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	56 30 00	56 32 30	56 35 00	56 37 30	56 40 00
133 30 00	1704 585.57	1719 806.20	1735 026.91	1750 247.69	1765 468.56
133 32 30	1704 567.52	1719 788.19	1735 008.93	1750 229.74	1765 450.65
133 35 00	1704 554.57	1719 775.28	1734 996.05	1750 216.90	1765 437.84
133 37 30	1704 546.75	1719 767.49	1734 988.29	1750 209.16	1765 430.12
133 40 00	1704 544.04	1719 764.81	1734 985.63	1750 206.53	1765 427.50
133 42 30	1704 546.44	1719 767.23	1734 988.08	1750 208.99	1765 429.99
133 45 00	1704 553.96	1719 774.77	1734 995.63	1750 216.56	1765 437.57
133 47 30	1704 566.60	1719 787.42	1735 008.29	1750 229.23	1765 450.25
133 50 00	1704 584.35	1719 805.19	1735 026.07	1750 247.01	1765 468.03
133 52 30	1704 607.23	1719 828.07	1735 048.95	1750 269.90	1765 490.92
133 55 00	1704 635.22	1719 856.06	1735 076.95	1750 297.89	1765 518.91
133 57 30	1704 668.34	1719 889.17	1735 110.05	1750 330.99	1765 552.00
134 00 00	1704 706.57	1719 927.40	1735 148.27	1750 369.21	1765 590.20
134 02 30	1704 749.92	1719 970.74	1735 191.61	1750 412.52	1765 633.49
134 05 00	1704 798.40	1720 019.21	1735 240.06	1750 460.95	1765 681.90
134 07 30	1704 852.00	1720 072.79	1735 293.61	1750 514.48	1765 735.42
134 10 00	1704 910.72	1720 131.48	1735 352.28	1750 573.13	1765 794.03
134 12 30	1704 974.56	1720 195.30	1735 416.08	1750 636.89	1765 857.76
134 15 00	1705 043.54	1720 264.24	1735 484.98	1750 705.76	1765 926.59
134 17 30	1705 117.63	1720 338.30	1735 559.01	1750 779.75	1766 000.53
134 20 00	1705 196.85	1720 417.48	1735 638.15	1750 858.85	1766 079.58
134 22 30	1705 281.20	1720 501.79	1735 722.40	1750 943.05	1766 163.74
134 25 00	1705 370.67	1720 591.22	1735 811.78	1751 032.38	1766 253.02
134 27 30	1705 465.27	1720 685.77	1735 906.28	1751 126.83	1766 347.40
134 30 00	1705 565.00	1720 785.45	1736 005.90	1751 226.38	1766 446.90
134 32 30	1705 669.86	1720 890.24	1736 110.64	1751 331.06	1766 551.51
134 35 00	1705 779.85	1721 000.17	1736 220.50	1751 440.85	1766 661.23
134 37 30	1705 894.97	1721 115.22	1736 335.48	1751 555.76	1766 776.06
134 40 00	1706 015.23	1721 235.40	1736 455.59	1751 675.79	1766 896.01
134 42 30	1706 140.61	1721 360.71	1736 580.81	1751 800.94	1767 021.08
134 45 00	1706 271.13	1721 491.15	1736 711.17	1751 931.21	1767 151.27
134 47 30	1706 406.77	1721 626.71	1736 846.64	1752 066.59	1767 286.56
134 50 00	1706 547.56	1721 767.41	1736 987.25	1752 207.11	1767 426.98
134 52 30	1706 693.48	1721 913.24	1737 132.99	1752 352.74	1767 572.51
134 55 00	1706 844.54	1722 064.20	1737 283.84	1752 503.50	1767 723.16
134 57 30	1707 000.73	1722 220.29	1737 439.83	1752 659.38	1767 878.93
135 00 00	1707 162.05	1722 381.51	1737 600.94	1752 820.38	1768 039.82
135 02 30	1707 328.52	1722 547.86	1737 767.19	1752 986.51	1768 205.84
135 05 00	1707 500.13	1722 719.35	1737 938.56	1753 157.76	1768 376.97
135 07 30	1707 676.87	1722 895.98	1738 115.06	1753 334.15	1768 553.23
135 10 00	1707 858.75	1723 077.74	1738 296.69	1753 515.65	1768 734.61
135 12 30	1708 045.77	1723 264.63	1738 483.47	1753 702.29	1768 921.10
135 15 00	1708 237.94	1723 456.66	1738 675.36	1753 894.06	1769 112.73
135 17 30	1708 435.24	1723 653.83	1738 872.40	1754 090.95	1769 309.49
135 20 00	1708 637.69	1723 856.15	1739 074.57	1754 292.97	1769 511.36
135 22 30	1708 845.28	1724 063.59	1739 281.87	1754 500.12	1769 718.36
135 25 00	1709 058.01	1724 276.17	1739 494.30	1754 712.41	1769 930.49
135 27 30	1709 275.89	1724 493.91	1739 711.87	1754 929.82	1770 147.75
135 30 00	1709 498.91	1724 716.77	1739 934.58	1755 152.37	1770 370.13
135 32 30	1709 727.08	1724 944.78	1740 162.43	1755 380.05	1770 597.64
135 35 00	1709 960.40	1725 177.93	1740 395.41	1755 612.87	1770 830.29
135 37 30	1710 198.86	1725 416.22	1740 633.54	1755 850.81	1771 068.06
135 40 00	1710 442.48	1725 659.66	1740 876.80	1756 093.90	1771 310.97
135 42 30	1710 691.23	1725 908.24	1741 125.20	1756 342.12	1771 559.00
135 45 00	1710 945.15	1726 161.97	1741 378.74	1756 595.47	1771 812.17
135 47 30	1711 204.21	1726 420.85	1741 637.43	1756 853.97	1772 070.47
135 50 00	1711 468.41	1726 684.86	1741 901.25	1757 117.60	1772 333.90
135 52 30	1711 737.78	1726 954.03	1742 170.23	1757 386.37	1772 602.47
135 55 00	1712 012.29	1727 228.34	1742 444.34	1757 660.27	1772 876.17
135 57 30	1712 291.96	1727 507.81	1742 723.59	1757 939.33	1773 155.00
136 00 00	1712 576.77	1727 792.42	1743 007.99	1758 223.51	1773 438.98

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	56 40 00	56 42 30	56 45 00	56 47 30	56 50 00
131 00 00	3221 930.35	3221 339.87	3220 749.22	3220 158.40	3219 567.40
131 02 30	3213 554.08	3212 972.79	3212 391.34	3211 809.71	3211 227.90
131 05 00	3205 177.67	3204 605.57	3204 033.30	3203 460.87	3202 888.27
131 07 30	3196 801.11	3196 238.21	3195 675.13	3195 111.90	3194 548.50
131 10 00	3188 424.41	3187 870.69	3187 316.82	3186 762.78	3186 208.58
131 12 30	3180 047.57	3179 503.04	3178 958.36	3178 413.53	3177 868.53
131 15 00	3171 670.60	3171 135.27	3170 599.78	3170 064.14	3169 528.35
131 17 30	3163 293.48	3162 767.34	3162 241.06	3161 714.62	3161 188.03
131 20 00	3154 916.23	3154 399.29	3153 882.20	3153 364.97	3152 847.59
131 22 30	3146 538.85	3146 031.11	3145 523.22	3145 015.20	3144 507.02
131 25 00	3138 161.34	3137 662.80	3137 164.11	3136 665.29	3136 166.32
131 27 30	3129 783.71	3129 294.36	3128 804.88	3128 315.26	3127 825.50
131 30 00	3121 405.95	3120 925.80	3120 445.52	3119 965.12	3119 484.56
131 32 30	3113 028.06	3112 557.12	3112 086.05	3111 614.84	3111 143.50
131 35 00	3104 650.05	3104 188.31	3103 726.44	3103 264.45	3102 802.32
131 37 30	3096 271.93	3095 819.39	3095 366.74	3094 913.95	3094 461.04
131 40 00	3087 893.69	3087 450.35	3087 006.90	3086 563.33	3086 119.63
131 42 30	3079 515.32	3079 081.20	3078 646.96	3078 212.60	3077 778.12
131 45 00	3071 136.86	3070 711.95	3070 286.91	3069 861.77	3069 436.50
131 47 30	3062 758.28	3062 342.57	3061 926.75	3061 510.83	3061 094.78
131 50 00	3054 379.59	3053 973.09	3053 566.48	3053 159.77	3052 752.94
131 52 30	3046 000.80	3045 603.52	3045 206.12	3044 808.62	3044 411.01
131 55 00	3037 621.90	3037 233.82	3036 845.65	3036 457.37	3036 068.98
131 57 30	3029 242.90	3028 864.04	3028 485.07	3028 106.02	3027 726.85
132 00 00	3020 863.80	3020 494.16	3020 124.42	3019 754.58	3019 384.63
132 02 30	3012 484.61	3012 124.17	3011 763.65	3011 403.03	3011 042.32
132 05 00	3004 105.31	3003 754.09	3003 402.79	3003 051.40	3002 699.91
132 07 30	2995 725.93	2995 383.93	2995 041.85	2994 699.68	2994 357.42
132 10 00	2987 346.45	2987 013.67	2986 680.81	2986 347.87	2986 014.84
132 12 30	2978 966.89	2978 643.33	2978 319.69	2977 995.98	2977 672.17
132 15 00	2970 587.24	2970 272.90	2969 958.49	2969 644.00	2969 329.43
132 17 30	2962 207.50	2961 902.39	2961 597.20	2961 291.94	2960 986.60
132 20 00	2953 827.68	2953 531.79	2953 235.83	2952 939.80	2952 643.69
132 22 30	2945 447.79	2945 161.12	2944 874.39	2944 587.59	2944 300.72
132 25 00	2937 067.81	2936 790.36	2936 512.86	2936 235.30	2935 957.66
132 27 30	2928 687.75	2928 419.54	2928 151.27	2927 882.93	2927 614.53
132 30 00	2920 307.63	2920 048.65	2919 789.61	2919 530.51	2919 271.34
132 32 30	2911 927.43	2911 677.68	2911 427.87	2911 178.01	2910 928.08
132 35 00	2903 547.17	2903 306.64	2903 066.07	2902 825.44	2902 584.75
132 37 30	2895 166.83	2894 935.54	2894 704.20	2894 472.81	2894 241.37
132 40 00	2886 786.43	2886 564.37	2886 342.27	2886 120.12	2885 897.92
132 42 30	2878 405.97	2878 193.15	2877 980.28	2877 767.37	2877 554.41
132 45 00	2870 025.45	2869 821.87	2869 618.24	2869 414.57	2869 210.86
132 47 30	2861 644.87	2861 450.52	2861 256.13	2861 061.71	2860 867.24
132 50 00	2853 264.23	2853 079.12	2852 893.97	2852 708.79	2852 523.57
132 52 30	2844 883.55	2844 707.67	2844 531.77	2844 355.83	2844 179.86
132 55 00	2836 502.80	2836 336.17	2836 169.51	2836 002.82	2835 836.09
132 57 30	2828 122.02	2827 964.62	2827 807.21	2827 649.76	2827 492.29
133 00 00	2819 741.17	2819 593.02	2819 444.86	2819 296.66	2819 148.44
133 02 30	2811 360.29	2811 221.38	2811 082.46	2810 943.51	2810 804.55
133 05 00	2802 979.37	2802 849.71	2802 720.03	2802 590.34	2802 460.62
133 07 30	2794 598.40	2794 477.98	2794 357.55	2794 237.11	2794 116.65
133 10 00	2786 217.39	2786 106.22	2785 995.04	2785 883.86	2785 772.65
133 12 30	2777 836.35	2777 734.43	2777 632.51	2777 530.57	2777 428.62
133 15 00	2769 455.28	2769 362.60	2769 269.93	2769 177.25	2769 084.56
133 17 30	2761 074.17	2760 990.75	2760 907.33	2760 823.90	2760 740.48
133 20 00	2752 693.03	2752 618.87	2752 544.70	2752 470.54	2752 396.37
133 22 30	2744 311.87	2744 246.96	2744 182.05	2744 117.14	2744 052.23
133 25 00	2735 930.68	2735 875.01	2735 819.36	2735 763.72	2735 708.08
133 27 30	2727 549.47	2727 503.07	2727 456.67	2727 410.29	2727 363.91
133 30 00	2719 168.23	2719 131.08	2719 093.95	2719 056.83	2719 019.72

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	56 40 00	56 42 30	56 45 00	56 47 30	56 50 00
131 00 00	1775 846.80	1791 058.65	1806 270.71	1821 482.99	1836 695.47
131 02 30	1775 524.24	1790 736.35	1805 948.68	1821 161.22	1836 373.96
131 05 00	1775 206.73	1790 419.11	1805 631.70	1820 844.49	1836 057.50
131 07 30	1774 894.28	1790 106.92	1805 319.76	1820 532.81	1835 746.07
131 10 00	1774 586.89	1789 799.79	1805 012.89	1820 226.19	1835 439.70
131 12 30	1774 284.56	1789 497.71	1804 711.06	1819 924.61	1835 138.37
131 15 00	1773 987.30	1789 200.69	1804 414.28	1819 628.09	1834 842.08
131 17 30	1773 695.10	1788 908.74	1804 122.57	1819 336.60	1834 550.85
131 20 00	1773 407.96	1788 621.83	1803 835.91	1819 050.18	1834 264.65
131 22 30	1773 125.87	1788 339.99	1803 554.30	1818 768.80	1833 983.51
131 25 00	1772 848.86	1788 063.21	1803 277.75	1818 492.48	1833 707.41
131 27 30	1772 576.91	1787 791.48	1803 006.25	1818 221.21	1833 436.36
131 30 00	1772 310.02	1787 524.82	1802 739.81	1817 954.99	1833 170.37
131 32 30	1772 048.21	1787 263.23	1802 478.43	1817 693.84	1832 909.42
131 35 00	1771 791.45	1787 006.69	1802 222.11	1817 437.72	1832 653.52
131 37 30	1771 539.76	1786 755.22	1801 970.85	1817 186.67	1832 402.68
131 40 00	1771 293.15	1786 508.81	1801 724.65	1816 940.67	1832 156.89
131 42 30	1771 051.60	1786 267.46	1801 483.51	1816 699.74	1831 916.15
131 45 00	1770 815.12	1786 031.18	1801 247.43	1816 463.85	1831 680.46
131 47 30	1770 583.70	1785 799.97	1801 016.41	1816 233.03	1831 449.83
131 50 00	1770 357.36	1785 573.82	1800 790.45	1816 007.26	1831 224.25
131 52 30	1770 136.09	1785 352.74	1800 569.56	1815 786.55	1831 003.73
131 55 00	1769 919.89	1785 136.72	1800 353.73	1815 570.91	1830 788.26
131 57 30	1769 708.76	1784 925.77	1800 142.96	1815 360.32	1830 577.84
132 00 00	1769 502.70	1784 719.90	1799 937.26	1815 154.79	1830 372.49
132 02 30	1769 301.72	1784 519.09	1799 736.62	1814 954.33	1830 172.19
132 05 00	1769 105.82	1784 323.35	1799 541.05	1814 758.92	1829 976.95
132 07 30	1768 914.99	1784 132.69	1799 350.55	1814 568.58	1829 786.78
132 10 00	1768 729.23	1783 947.09	1799 165.12	1814 383.31	1829 601.65
132 12 30	1768 548.55	1783 766.57	1798 984.75	1814 203.09	1829 421.59
132 15 00	1768 372.93	1783 591.11	1798 809.45	1814 027.94	1829 246.59
132 17 30	1768 202.41	1783 420.74	1798 639.22	1813 857.86	1829 076.66
132 20 00	1768 036.96	1783 255.43	1798 474.06	1813 692.85	1828 911.78
132 22 30	1767 876.59	1783 095.20	1798 313.98	1813 532.90	1828 751.97
132 25 00	1767 721.29	1782 940.05	1798 158.96	1813 378.01	1828 597.22
132 27 30	1767 571.08	1782 789.97	1798 009.01	1813 228.19	1828 447.53
132 30 00	1767 425.95	1782 644.97	1797 864.14	1813 083.45	1828 302.91
132 32 30	1767 285.89	1782 505.04	1797 724.34	1812 943.77	1828 163.35
132 35 00	1767 150.92	1782 370.20	1797 589.61	1812 809.17	1828 028.86
132 37 30	1767 021.04	1782 240.43	1797 459.96	1812 679.62	1827 899.43
132 40 00	1766 896.23	1782 115.74	1797 335.38	1812 555.16	1827 775.08
132 42 30	1766 776.51	1781 996.13	1797 215.87	1812 435.76	1827 655.79
132 45 00	1766 661.87	1781 881.60	1797 101.45	1812 321.44	1827 541.56
132 47 30	1766 552.32	1781 772.15	1796 992.10	1812 212.19	1827 432.41
132 50 00	1766 447.85	1781 667.78	1796 887.84	1812 108.01	1827 328.33
132 52 30	1766 348.48	1781 568.49	1796 788.64	1812 008.92	1827 229.31
132 55 00	1766 254.18	1781 474.29	1796 694.53	1811 914.89	1827 135.37
132 57 30	1766 164.97	1781 385.17	1796 605.49	1811 825.94	1827 046.50
133 00 00	1766 080.85	1781 301.14	1796 521.53	1811 742.06	1826 962.70
133 02 30	1766 001.83	1781 222.19	1796 442.67	1811 663.26	1826 883.98
133 05 00	1765 927.89	1781 148.32	1796 368.87	1811 589.54	1826 810.33
133 07 30	1765 859.04	1781 079.55	1796 300.16	1811 520.90	1826 741.75
133 10 00	1765 795.28	1781 015.86	1796 236.54	1811 457.34	1826 678.25
133 12 30	1765 736.61	1780 957.25	1796 177.99	1811 398.85	1826 619.81
133 15 00	1765 683.04	1780 903.73	1796 124.53	1811 345.44	1826 566.46
133 17 30	1765 634.56	1780 855.30	1796 076.16	1811 297.12	1826 518.19
133 20 00	1765 591.17	1780 811.97	1796 032.87	1811 253.87	1826 474.99
133 22 30	1765 552.88	1780 773.72	1795 994.67	1811 215.72	1826 436.87
133 25 00	1765 519.67	1780 740.56	1795 961.55	1811 182.64	1826 403.82
133 27 30	1765 491.57	1780 712.49	1795 933.52	1811 154.64	1826 375.86
133 30 00	1765 468.56	1780 689.52	1795 910.58	1811 131.73	1826 352.98

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.29	-.35	-.40	-.45	-.49	-.53	-.56	-.58	-.60	-.62	-.63	-.63

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	56 40 00	56 42 30	56 45 00	56 47 30	56 50 00
133 30 00	2719 168.23	2719 131.08	2719 093.95	2719 056.83	2719 019.72
133 32 30	2710 786.98	2710 759.09	2710 731.22	2710 703.36	2710 675.52
133 35 00	2702 405.72	2702 387.09	2702 368.48	2702 349.88	2702 331.30
133 37 30	2694 024.43	2694 015.06	2694 005.72	2693 996.40	2693 987.08
133 40 00	2685 643.14	2685 643.03	2685 642.95	2685 642.89	2685 642.85
133 42 30	2677 261.84	2677 270.99	2677 280.18	2677 289.39	2677 298.62
133 45 00	2668 880.53	2668 898.95	2668 917.40	2668 935.88	2668 954.38
133 47 30	2660 499.21	2660 526.90	2660 554.62	2660 582.36	2660 610.14
133 50 00	2652 117.90	2652 154.85	2652 191.84	2652 228.86	2652 265.91
133 52 30	2643 736.58	2643 782.80	2643 829.06	2643 875.35	2643 921.68
133 55 00	2635 355.26	2635 410.75	2635 466.28	2635 521.85	2635 577.46
133 57 30	2626 973.96	2627 038.72	2627 103.52	2627 168.36	2627 233.25
134 00 00	2618 592.65	2618 666.68	2618 740.76	2618 814.88	2618 889.04
134 02 30	2610 211.35	2610 294.65	2610 378.00	2610 461.41	2610 544.85
134 05 00	2601 830.07	2601 922.64	2602 015.27	2602 107.96	2602 200.68
134 07 30	2593 448.80	2593 550.65	2593 652.55	2593 754.51	2593 856.52
134 10 00	2585 067.54	2585 178.66	2585 289.85	2585 401.09	2585 512.39
134 12 30	2576 686.31	2576 806.71	2576 927.17	2577 047.69	2577 168.28
134 15 00	2568 305.08	2568 434.76	2568 564.51	2568 694.32	2568 824.18
134 17 30	2559 923.89	2560 062.85	2560 201.87	2560 340.97	2560 480.13
134 20 00	2551 542.72	2551 690.96	2551 839.27	2551 987.65	2552 136.09
134 22 30	2543 161.57	2543 319.09	2543 476.69	2543 634.36	2543 792.09
134 25 00	2534 780.46	2534 947.26	2535 114.14	2535 281.10	2535 448.12
134 27 30	2526 399.37	2526 575.47	2526 751.64	2526 927.88	2527 104.20
134 30 00	2518 018.32	2518 203.70	2518 389.16	2518 574.69	2518 760.31
134 32 30	2509 637.31	2509 831.97	2510 026.72	2510 221.54	2510 416.45
134 35 00	2501 256.34	2501 460.28	2501 664.32	2501 868.45	2502 072.65
134 37 30	2492 875.39	2493 088.63	2493 301.97	2493 515.38	2493 728.89
134 40 00	2484 494.50	2484 717.03	2484 939.66	2485 162.37	2485 385.17
134 42 30	2476 113.65	2476 345.48	2476 577.40	2476 809.41	2477 041.51
134 45 00	2467 732.86	2467 973.97	2468 215.18	2468 456.49	2468 697.89
134 47 30	2459 352.10	2459 602.51	2459 853.02	2460 103.63	2460 354.34
134 50 00	2450 971.41	2451 231.12	2451 490.92	2451 750.83	2452 010.84
134 52 30	2442 590.76	2442 859.76	2443 128.87	2443 398.09	2443 667.40
134 55 00	2434 210.18	2434 488.48	2434 766.89	2435 045.41	2435 324.02
134 57 30	2425 829.65	2426 117.25	2426 404.96	2426 692.78	2426 980.71
135 00 00	2417 449.18	2417 746.09	2418 043.09	2418 340.22	2418 637.46
135 02 30	2409 068.79	2409 374.99	2409 681.30	2409 987.74	2410 294.28
135 05 00	2400 688.45	2401 003.95	2401 319.57	2401 635.31	2401 951.17
135 07 30	2392 308.18	2392 632.99	2392 957.91	2393 282.97	2393 608.13
135 10 00	2383 927.99	2384 262.10	2384 596.34	2384 930.70	2385 265.17
135 12 30	2375 547.86	2375 891.28	2376 234.83	2376 578.50	2376 922.29
135 15 00	2367 167.81	2367 520.54	2367 873.39	2368 226.38	2368 579.49
135 17 30	2358 787.84	2359 149.88	2359 512.05	2359 874.35	2360 236.77
135 20 00	2350 407.95	2350 779.30	2351 150.78	2351 522.40	2351 894.14
135 22 30	2342 028.15	2342 408.80	2342 789.60	2343 170.52	2343 551.59
135 25 00	2333 648.42	2334 038.39	2334 428.50	2334 818.75	2335 209.13
135 27 30	2325 268.78	2325 668.07	2326 067.49	2326 467.06	2326 866.76
135 30 00	2316 889.24	2317 297.84	2317 706.58	2318 115.46	2318 524.49
135 32 30	2308 509.79	2308 927.70	2309 345.77	2309 763.97	2310 182.32
135 35 00	2300 130.42	2300 557.65	2300 985.04	2301 412.57	2301 840.25
135 37 30	2291 751.16	2292 187.71	2292 624.41	2293 061.27	2293 498.27
135 40 00	2283 372.00	2283 817.87	2284 263.89	2284 710.08	2285 156.40
135 42 30	2274 992.94	2275 448.13	2275 903.48	2276 358.98	2276 814.64
135 45 00	2266 613.97	2267 078.49	2267 543.17	2268 007.99	2268 472.98
135 47 30	2258 235.13	2258 708.96	2259 182.96	2259 657.12	2260 131.44
135 50 00	2249 856.38	2250 339.54	2250 822.87	2251 306.36	2251 790.00
135 52 30	2241 477.74	2241 970.23	2242 462.88	2242 955.70	2243 448.69
135 55 00	2233 099.23	2233 601.04	2234 103.02	2234 605.18	2235 107.49
135 57 30	2224 720.82	2225 231.96	2225 743.27	2226 254.76	2226 766.42
136 00 00	2216 342.53	2216 863.00	2217 383.65	2217 904.47	2218 425.46

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	56 40 00	56 42 30	56 45 00	56 47 30	56 50 00
133 30 00	1765 468.56	1780 689.52	1795 910.58	1811 131.73	1826 352.98
133 32 30	1765 450.65	1780 671.64	1795 892.72	1811 113.90	1826 335.17
133 35 00	1765 437.84	1780 658.85	1795 879.96	1811 101.16	1826 322.45
133 37 30	1765 430.12	1780 651.16	1795 872.28	1811 093.50	1826 314.81
133 40 00	1765 427.50	1780 648.56	1795 869.70	1811 090.93	1826 312.25
133 42 30	1765 429.99	1780 651.05	1795 872.21	1811 093.45	1826 314.78
133 45 00	1765 437.57	1780 658.65	1795 879.81	1811 101.05	1826 322.39
133 47 30	1765 450.25	1780 671.34	1795 892.50	1811 113.75	1826 335.08
133 50 00	1765 468.03	1780 689.12	1795 910.29	1811 131.53	1826 352.85
133 52 30	1765 490.92	1780 712.00	1795 933.16	1811 154.41	1826 375.71
133 55 00	1765 518.91	1780 739.98	1795 961.14	1811 182.37	1826 403.67
133 57 30	1765 552.00	1780 773.07	1795 994.21	1811 215.42	1826 436.70
134 00 00	1765 590.20	1780 811.25	1796 032.37	1811 253.56	1826 474.82
134 02 30	1765 633.49	1780 854.53	1796 075.63	1811 296.80	1826 518.04
134 05 00	1765 681.90	1780 902.92	1796 123.99	1811 345.13	1826 566.34
134 07 30	1765 735.42	1780 956.40	1796 177.44	1811 398.56	1826 619.73
134 10 00	1765 794.03	1781 014.98	1796 236.00	1811 457.07	1826 678.21
134 12 30	1765 857.76	1781 078.67	1796 299.65	1811 520.68	1826 741.78
134 15 00	1765 926.59	1781 147.47	1796 368.40	1811 589.40	1826 810.44
134 17 30	1766 000.53	1781 221.37	1796 442.26	1811 663.19	1826 884.20
134 20 00	1766 079.58	1781 300.37	1796 521.21	1811 742.10	1826 963.05
134 22 30	1766 163.74	1781 384.48	1796 605.26	1811 826.10	1827 046.98
134 25 00	1766 253.02	1781 473.70	1796 694.42	1811 915.20	1827 136.02
134 27 30	1766 347.40	1781 568.02	1796 788.69	1812 009.39	1827 230.14
134 30 00	1766 446.90	1781 667.45	1796 888.05	1812 108.69	1827 329.37
134 32 30	1766 551.51	1781 771.99	1796 992.52	1812 213.08	1827 433.69
134 35 00	1766 661.23	1781 881.64	1797 102.09	1812 322.58	1827 543.10
134 37 30	1766 776.06	1781 996.40	1797 216.77	1812 437.18	1827 657.62
134 40 00	1766 896.01	1782 116.27	1797 336.56	1812 556.88	1827 777.23
134 42 30	1767 021.08	1782 241.25	1797 461.45	1812 681.68	1827 901.94
134 45 00	1767 151.27	1782 371.34	1797 591.45	1812 811.58	1828 031.75
134 47 30	1767 286.56	1782 506.55	1797 726.56	1812 946.59	1828 166.66
134 50 00	1767 426.98	1782 646.86	1797 866.77	1813 086.71	1828 306.67
134 52 30	1767 572.51	1782 792.29	1798 012.10	1813 231.93	1828 451.78
134 55 00	1767 723.16	1782 942.84	1798 162.54	1813 382.26	1828 602.00
134 57 30	1767 878.93	1783 098.50	1798 318.08	1813 537.69	1828 757.31
135 00 00	1768 039.82	1783 259.27	1798 478.75	1813 698.22	1828 917.73
135 02 30	1768 205.84	1783 425.17	1798 644.52	1813 863.87	1829 083.25
135 05 00	1768 376.97	1783 596.18	1798 815.40	1814 034.63	1829 253.87
135 07 30	1768 553.23	1783 772.31	1798 991.40	1814 210.50	1829 429.61
135 10 00	1768 734.61	1783 953.55	1799 172.51	1814 391.47	1829 610.44
135 12 30	1768 921.10	1784 139.92	1799 358.74	1814 577.56	1829 796.39
135 15 00	1769 112.73	1784 331.41	1799 550.08	1814 768.76	1829 987.43
135 17 30	1769 309.49	1784 528.01	1799 746.54	1814 965.07	1830 183.59
135 20 00	1769 511.36	1784 729.74	1799 948.11	1815 166.49	1830 384.86
135 22 30	1769 718.36	1784 936.59	1800 154.81	1815 373.02	1830 591.24
135 25 00	1769 930.49	1785 148.56	1800 366.62	1815 584.67	1830 802.72
135 27 30	1770 147.75	1785 365.65	1800 583.55	1815 801.44	1831 019.32
135 30 00	1770 370.13	1785 587.88	1800 805.60	1816 023.32	1831 241.02
135 32 30	1770 597.64	1785 815.22	1801 032.77	1816 250.31	1831 467.84
135 35 00	1770 830.29	1786 047.68	1801 265.06	1816 482.43	1831 699.77
135 37 30	1771 068.06	1786 285.28	1801 502.48	1816 719.65	1831 936.82
135 40 00	1771 310.97	1786 528.00	1801 745.01	1816 962.00	1832 178.97
135 42 30	1771 559.00	1786 775.85	1801 992.67	1817 209.47	1832 426.24
135 45 00	1771 812.17	1787 028.82	1802 245.45	1817 462.05	1832 678.62
135 47 30	1772 070.47	1787 286.92	1802 503.36	1817 719.76	1832 936.13
135 50 00	1772 333.90	1787 550.16	1802 766.38	1817 982.58	1833 198.75
135 52 30	1772 602.47	1787 818.52	1803 034.54	1818 250.53	1833 466.48
135 55 00	1772 876.17	1788 092.01	1803 307.83	1818 523.59	1833 739.33
135 57 30	1773 155.00	1788 370.64	1803 586.24	1818 801.79	1834 017.30
136 00 00	1773 438.98	1788 654.40	1803 869.77	1819 085.10	1834 300.39

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	56 50 00	56 52 30	56 55 00	56 57 30	57 00 00
131 00 00	3219 567.40	3218 976.22	3218 384.85	3217 793.30	3217 201.55
131 02 30	3211 227.90	3210 645.93	3210 063.77	3209 481.42	3208 898.89
131 05 00	3202 888.27	3202 315.49	3201 742.54	3201 169.40	3200 596.08
131 07 30	3194 548.50	3193 984.92	3193 421.18	3192 857.25	3192 293.14
131 10 00	3186 208.58	3185 654.21	3185 099.67	3184 544.95	3183 990.06
131 12 30	3177 868.53	3177 323.36	3176 778.03	3176 232.53	3175 686.85
131 15 00	3169 528.35	3168 992.39	3168 456.27	3167 919.98	3167 383.51
131 17 30	3161 188.03	3160 661.28	3160 134.38	3159 607.30	3159 080.05
131 20 00	3152 847.59	3152 330.05	3151 812.35	3151 294.49	3150 776.46
131 22 30	3144 507.02	3143 998.69	3143 490.21	3142 981.56	3142 472.75
131 25 00	3136 166.32	3135 667.20	3135 167.93	3134 668.50	3134 168.92
131 27 30	3127 825.50	3127 335.59	3126 845.54	3126 355.33	3125 864.97
131 30 00	3119 484.56	3119 003.87	3118 523.03	3118 042.04	3117 560.90
131 32 30	3111 143.50	3110 672.02	3110 200.40	3109 728.64	3109 256.72
131 35 00	3102 802.32	3102 340.06	3101 877.66	3101 415.12	3100 952.43
131 37 30	3094 461.04	3094 007.99	3093 554.81	3093 101.49	3092 648.02
131 40 00	3086 119.63	3085 675.80	3085 231.84	3084 787.75	3084 343.51
131 42 30	3077 778.12	3077 343.51	3076 908.77	3076 473.90	3076 038.89
131 45 00	3069 436.50	3069 011.12	3068 585.60	3068 159.96	3067 734.17
131 47 30	3061 094.78	3060 678.61	3060 262.32	3059 845.90	3059 429.35
131 50 00	3052 752.94	3052 346.00	3051 938.94	3051 531.75	3051 124.43
131 52 30	3044 411.01	3044 013.30	3043 615.46	3043 217.50	3042 819.42
131 55 00	3036 068.98	3035 680.49	3035 291.88	3034 903.15	3034 514.30
131 57 30	3027 726.85	3027 347.58	3026 968.20	3026 588.71	3026 209.10
132 00 00	3019 384.63	3019 014.59	3018 644.44	3018 274.18	3017 903.80
132 02 30	3011 042.32	3010 681.50	3010 320.58	3009 959.56	3009 598.42
132 05 00	3002 699.91	3002 348.33	3001 996.64	3001 644.84	3001 292.94
132 07 30	2994 357.42	2994 015.06	2993 672.61	2993 330.05	2992 987.39
132 10 00	2986 014.84	2985 681.72	2985 348.50	2985 015.17	2984 681.75
132 12 30	2977 672.17	2977 348.28	2977 024.30	2976 700.21	2976 376.04
132 15 00	2969 329.43	2969 014.77	2968 700.03	2968 385.19	2968 070.24
132 17 30	2960 986.60	2960 681.18	2960 375.67	2960 070.07	2959 764.38
132 20 00	2952 643.69	2952 347.50	2952 051.23	2951 754.88	2951 458.43
132 22 30	2944 300.72	2944 013.76	2943 726.73	2943 439.62	2943 152.42
132 25 00	2935 957.66	2935 679.95	2935 402.16	2935 124.29	2934 846.34
132 27 30	2927 614.53	2927 346.06	2927 077.52	2926 808.89	2926 540.18
132 30 00	2919 271.34	2919 012.11	2918 752.81	2918 493.43	2918 233.98
132 32 30	2910 928.08	2910 678.09	2910 428.03	2910 177.90	2909 927.70
132 35 00	2902 584.75	2902 344.01	2902 103.20	2901 862.32	2901 621.36
132 37 30	2894 241.37	2894 009.87	2893 778.31	2893 546.67	2893 314.97
132 40 00	2885 897.92	2885 675.66	2885 453.35	2885 230.97	2885 008.52
132 42 30	2877 554.41	2877 341.40	2877 128.34	2876 915.21	2876 702.02
132 45 00	2869 210.86	2869 007.09	2868 803.27	2868 599.40	2868 395.47
132 47 30	2860 867.24	2860 672.72	2860 478.16	2860 283.54	2860 088.86
132 50 00	2852 523.57	2852 338.30	2852 152.99	2851 967.63	2851 782.21
132 52 30	2844 179.86	2844 003.85	2843 827.78	2843 651.68	2843 475.52
132 55 00	2835 836.09	2835 669.33	2835 502.53	2835 335.68	2835 168.79
132 57 30	2827 492.29	2827 334.78	2827 177.24	2827 019.64	2826 862.01
133 00 00	2819 148.44	2819 000.18	2818 851.90	2818 703.57	2818 555.19
133 02 30	2810 804.55	2810 665.55	2810 526.52	2810 387.45	2810 248.35
133 05 00	2802 460.62	2802 330.87	2802 201.11	2802 071.31	2801 941.46
133 07 30	2794 116.65	2793 996.17	2793 875.66	2793 755.12	2793 634.55
133 10 00	2785 772.65	2785 661.43	2785 550.18	2785 438.90	2785 327.60
133 12 30	2777 428.62	2777 326.66	2777 224.68	2777 122.67	2777 020.63
133 15 00	2769 084.56	2768 991.86	2768 899.14	2768 806.40	2768 713.64
133 17 30	2760 740.48	2760 657.04	2760 573.58	2760 490.11	2760 406.62
133 20 00	2752 396.37	2752 322.19	2752 248.00	2752 173.80	2752 099.58
133 22 30	2744 052.23	2743 987.32	2743 922.41	2743 857.47	2743 792.52
133 25 00	2735 708.08	2735 652.43	2735 596.78	2735 541.12	2735 485.45
133 27 30	2727 363.91	2727 317.53	2727 271.15	2727 224.76	2727 178.36
133 30 00	2719 019.72	2718 982.61	2718 945.50	2718 908.39	2718 871.27

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	56 50 00	56 52 30	56 55 00	56 57 30	57 00 00
131 00 00	1836 695.47	1851 908.18	1867 121.08	1882 334.22	1897 547.58
131 02 30	1836 373.96	1851 586.93	1866 800.09	1882 013.49	1897 227.10
131 05 00	1836 057.50	1851 270.72	1866 484.13	1881 697.79	1896 911.66
131 07 30	1835 746.07	1850 959.55	1866 173.21	1881 387.12	1896 601.23
131 10 00	1835 439.70	1850 653.43	1865 867.33	1881 081.48	1896 295.84
131 12 30	1835 138.37	1850 352.34	1865 566.49	1880 780.88	1895 995.47
131 15 00	1834 842.08	1850 056.29	1865 270.69	1880 485.31	1895 700.15
131 17 30	1834 550.85	1849 765.29	1864 979.92	1880 194.78	1895 409.84
131 20 00	1834 264.65	1849 479.34	1864 694.19	1879 909.28	1895 124.57
131 22 30	1833 983.51	1849 198.42	1864 413.50	1879 628.82	1894 844.33
131 25 00	1833 707.41	1848 922.55	1864 137.85	1879 353.39	1894 569.13
131 27 30	1833 436.36	1848 651.72	1863 867.25	1879 083.00	1894 298.96
131 30 00	1833 170.37	1848 385.95	1863 601.69	1878 817.66	1894 033.82
131 32 30	1832 909.42	1848 125.21	1863 341.17	1878 557.35	1893 773.72
131 35 00	1832 653.52	1847 869.52	1863 085.69	1878 302.07	1893 518.64
131 37 30	1832 402.68	1847 618.88	1862 835.25	1878 051.84	1893 268.61
131 40 00	1832 156.89	1847 373.29	1862 589.86	1877 806.64	1893 023.62
131 42 30	1831 916.15	1847 132.75	1862 349.51	1877 566.49	1892 783.66
131 45 00	1831 680.46	1846 897.25	1862 114.22	1877 331.38	1892 548.73
131 47 30	1831 449.83	1846 666.82	1861 883.96	1877 101.31	1892 318.85
131 50 00	1831 224.25	1846 441.42	1861 658.75	1876 876.29	1892 094.00
131 52 30	1831 003.73	1846 221.08	1861 438.59	1876 656.31	1891 874.20
131 55 00	1830 788.26	1846 005.79	1861 223.48	1876 441.37	1891 659.44
131 57 30	1830 577.84	1845 795.55	1861 013.41	1876 231.47	1891 449.71
132 00 00	1830 372.49	1845 590.37	1860 808.39	1876 026.62	1891 245.03
132 02 30	1830 172.19	1845 390.24	1860 608.43	1875 826.82	1891 045.38
132 05 00	1829 976.95	1845 195.16	1860 413.51	1875 632.07	1890 850.79
132 07 30	1829 786.78	1845 005.14	1860 223.65	1875 442.35	1890 661.23
132 10 00	1829 601.65	1844 820.18	1860 038.83	1875 257.70	1890 476.71
132 12 30	1829 421.59	1844 640.27	1859 859.07	1875 078.08	1890 297.25
132 15 00	1829 246.59	1844 465.41	1859 684.36	1874 903.51	1890 122.82
132 17 30	1829 076.66	1844 295.62	1859 514.71	1874 734.00	1889 953.44
132 20 00	1828 911.78	1844 130.88	1859 350.11	1874 569.53	1889 789.11
132 22 30	1828 751.97	1843 971.20	1859 190.57	1874 410.12	1889 629.83
132 25 00	1828 597.22	1843 816.58	1859 036.08	1874 255.75	1889 475.58
132 27 30	1828 447.53	1843 667.02	1858 886.64	1874 106.44	1889 326.39
132 30 00	1828 302.91	1843 522.52	1858 742.26	1873 962.18	1889 182.25
132 32 30	1828 163.35	1843 383.08	1858 602.95	1873 822.98	1889 043.16
132 35 00	1828 028.86	1843 248.71	1858 468.68	1873 688.82	1888 909.12
132 37 30	1827 899.43	1843 119.39	1858 339.47	1873 559.73	1888 780.12
132 40 00	1827 775.08	1842 995.14	1858 215.33	1873 435.68	1888 656.18
132 42 30	1827 655.79	1842 875.96	1858 096.24	1873 316.70	1888 537.29
132 45 00	1827 541.56	1842 761.84	1857 982.22	1873 202.77	1888 423.45
132 47 30	1827 432.41	1842 652.78	1857 873.25	1873 093.89	1888 314.67
132 50 00	1827 328.33	1842 548.79	1857 769.35	1872 990.07	1888 210.94
132 52 30	1827 229.31	1842 449.86	1857 670.51	1872 891.31	1888 112.26
132 55 00	1827 135.37	1842 356.00	1857 576.73	1872 797.61	1888 018.63
132 57 30	1827 046.50	1842 267.20	1857 488.01	1872 708.97	1887 930.07
133 00 00	1826 962.70	1842 183.48	1857 404.36	1872 625.39	1887 846.55
133 02 30	1826 883.98	1842 104.83	1857 325.77	1872 546.87	1887 768.10
133 05 00	1826 810.33	1842 031.24	1857 252.25	1872 473.41	1887 694.70
133 07 30	1826 741.75	1841 962.72	1857 183.80	1872 405.02	1887 626.36
133 10 00	1826 678.25	1841 899.28	1857 120.41	1872 341.69	1887 563.08
133 12 30	1826 619.81	1841 840.90	1857 062.08	1872 283.41	1887 504.85
133 15 00	1826 566.46	1841 787.60	1857 008.83	1872 230.20	1887 451.69
133 17 30	1826 518.19	1841 739.37	1856 960.65	1872 182.06	1887 403.59
133 20 00	1826 474.99	1841 696.22	1856 917.53	1872 138.98	1887 360.54
133 22 30	1826 436.87	1841 658.13	1856 879.48	1872 100.97	1887 322.56
133 25 00	1826 403.82	1841 625.13	1856 846.51	1872 068.02	1887 289.64
133 27 30	1826 375.86	1841 597.19	1856 818.60	1872 040.14	1887 261.79
133 30 00	1826 352.98	1841 574.34	1856 795.76	1872 017.33	1887 238.99

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.29	-.35	-.40	-.45	-.49	-.53	-.56	-.58	-.60	-.62	-.63	-.63

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	56 50 00	56 52 30	56 55 00	56 57 30	57 00 00
133 30 00	2719 019.72	2718 982.61	2718 945.50	2718 908.39	2718 871.27
133 32 30	2710 675.52	2710 647.68	2710 619.84	2710 592.00	2710 564.16
133 35 00	2702 331.30	2702 312.74	2702 294.18	2702 275.61	2702 257.05
133 37 30	2693 987.08	2693 977.79	2693 968.50	2693 959.22	2693 949.93
133 40 00	2685 642.85	2685 642.83	2685 642.81	2685 642.81	2685 642.81
133 42 30	2677 298.62	2677 307.87	2677 317.13	2677 326.41	2677 335.70
133 45 00	2668 954.38	2668 972.91	2668 991.45	2669 010.01	2669 028.57
133 47 30	2660 610.14	2660 637.95	2660 665.77	2660 693.61	2660 721.46
133 50 00	2652 265.91	2652 302.99	2652 340.10	2652 377.22	2652 414.36
133 52 30	2643 921.68	2643 968.04	2644 014.43	2644 060.83	2644 107.26
133 55 00	2635 577.46	2635 633.10	2635 688.76	2635 744.46	2635 800.17
133 57 30	2627 233.25	2627 298.17	2627 363.12	2627 428.10	2627 493.11
134 00 00	2618 889.04	2618 963.25	2619 037.49	2619 111.75	2619 186.05
134 02 30	2610 544.85	2610 628.34	2610 711.86	2610 795.42	2610 879.00
134 05 00	2602 200.68	2602 293.46	2602 386.27	2602 479.11	2602 571.99
134 07 30	2593 856.52	2593 958.58	2594 060.68	2594 162.82	2594 265.00
134 10 00	2585 512.39	2585 623.73	2585 735.12	2585 846.55	2585 958.02
134 12 30	2577 168.28	2577 288.91	2577 409.59	2577 530.32	2577 651.08
134 15 00	2568 824.18	2568 954.11	2569 084.08	2569 214.10	2569 344.17
134 17 30	2560 480.13	2560 619.34	2560 758.61	2560 897.93	2561 037.29
134 20 00	2552 136.09	2552 284.60	2552 433.16	2552 581.78	2552 730.45
134 22 30	2543 792.09	2543 949.90	2544 107.75	2544 265.66	2544 423.63
134 25 00	2535 448.12	2535 615.22	2535 782.37	2535 949.59	2536 116.85
134 27 30	2527 104.20	2527 280.59	2527 457.04	2527 633.56	2527 810.13
134 30 00	2518 760.31	2518 945.99	2519 131.74	2519 317.56	2519 503.44
134 32 30	2510 416.45	2510 611.44	2510 806.49	2511 001.61	2511 196.79
134 35 00	2502 072.65	2502 276.93	2502 481.29	2502 685.71	2502 890.20
134 37 30	2493 728.89	2493 942.47	2494 156.12	2494 369.86	2494 583.66
134 40 00	2485 385.17	2485 608.05	2485 831.02	2486 054.05	2486 277.16
134 42 30	2477 041.51	2477 273.70	2477 505.96	2477 738.31	2477 970.73
134 45 00	2468 697.89	2468 939.39	2469 180.96	2469 422.61	2469 664.35
134 47 30	2460 354.34	2460 605.13	2460 856.01	2461 106.98	2461 358.02
134 50 00	2452 010.84	2452 270.94	2452 531.13	2452 791.41	2453 051.77
134 52 30	2443 667.40	2443 936.81	2444 206.31	2444 475.90	2444 745.57
134 55 00	2435 324.02	2435 602.74	2435 881.55	2436 160.45	2436 439.44
134 57 30	2426 980.71	2427 268.73	2427 556.85	2427 845.08	2428 133.39
135 00 00	2418 637.46	2418 934.79	2419 232.23	2419 529.76	2419 827.39
135 02 30	2410 294.28	2410 600.93	2410 907.68	2411 214.53	2411 521.48
135 05 00	2401 951.17	2402 267.13	2402 583.20	2402 899.37	2403 215.64
135 07 30	2393 608.13	2393 933.41	2394 258.79	2394 584.28	2394 909.88
135 10 00	2385 265.17	2385 599.77	2385 934.47	2386 269.28	2386 604.20
135 12 30	2376 922.29	2377 266.20	2377 610.22	2377 954.35	2378 298.59
135 15 00	2368 579.49	2368 932.72	2369 286.06	2369 639.51	2369 993.08
135 17 30	2360 236.77	2360 599.32	2360 961.98	2361 324.76	2361 687.65
135 20 00	2351 894.14	2352 266.00	2352 637.99	2353 010.09	2353 382.31
135 22 30	2343 551.59	2343 932.78	2344 314.09	2344 695.52	2345 077.07
135 25 00	2335 209.13	2335 599.64	2335 990.28	2336 381.04	2336 771.92
135 27 30	2326 866.76	2327 266.60	2327 666.57	2328 066.65	2328 466.87
135 30 00	2318 524.49	2318 933.65	2319 342.94	2319 752.36	2320 161.90
135 32 30	2310 182.32	2310 600.81	2311 019.43	2311 438.18	2311 857.06
135 35 00	2301 840.25	2302 268.06	2302 696.00	2303 124.09	2303 552.30
135 37 30	2293 498.27	2293 935.41	2294 372.69	2294 810.11	2295 247.66
135 40 00	2285 156.40	2285 602.88	2286 049.49	2286 496.24	2286 943.13
135 42 30	2276 814.64	2277 270.44	2277 726.39	2278 182.48	2278 638.71
135 45 00	2268 472.98	2268 938.12	2269 403.40	2269 868.83	2270 334.39
135 47 30	2260 131.44	2260 605.91	2261 080.53	2261 555.29	2262 030.20
135 50 00	2251 790.00	2252 273.81	2252 757.77	2253 241.87	2253 726.12
135 52 30	2243 448.69	2243 941.83	2244 435.12	2244 928.57	2245 422.16
135 55 00	2235 107.49	2235 609.97	2236 112.60	2236 615.39	2237 118.33
135 57 30	2226 766.42	2227 278.23	2227 790.21	2228 302.33	2228 814.62
136 00 00	2218 425.46	2218 946.62	2219 467.93	2219 989.41	2220 511.04

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	56 50 00	56 52 30	56 55 00	56 57 30	57 00 00
133 30 00	1826 352.98	1841 574.34	1856 795.76	1872 017.33	1887 238.99
133 32 30	1826 335.17	1841 556.55	1856 778.01	1871 999.58	1887 221.26
133 35 00	1826 322.45	1841 543.85	1856 765.31	1871 986.91	1887 208.60
133 37 30	1826 314.81	1841 536.22	1856 757.70	1871 979.30	1887 201.00
133 40 00	1826 312.25	1841 533.68	1856 755.16	1871 976.76	1887 198.47
133 42 30	1826 314.78	1841 536.20	1856 757.69	1871 979.30	1887 201.00
133 45 00	1826 322.39	1841 543.81	1856 765.30	1871 986.91	1887 208.60
133 47 30	1826 335.08	1841 556.50	1856 777.98	1871 999.58	1887 221.26
133 50 00	1826 352.85	1841 574.27	1856 795.75	1872 017.34	1887 239.01
133 52 30	1826 375.71	1841 597.12	1856 818.58	1872 040.15	1887 261.81
133 55 00	1826 403.67	1841 625.06	1856 846.50	1872 068.05	1887 289.69
133 57 30	1826 436.70	1841 658.08	1856 879.49	1872 101.03	1887 322.63
134 00 00	1826 474.82	1841 696.18	1856 917.57	1872 139.07	1887 360.65
134 02 30	1826 518.04	1841 739.35	1856 960.73	1872 182.19	1887 403.74
134 05 00	1826 566.34	1841 787.63	1857 008.96	1872 230.39	1887 451.90
134 07 30	1826 619.73	1841 840.98	1857 062.28	1872 283.67	1887 505.13
134 10 00	1826 678.21	1841 899.42	1857 120.67	1872 342.02	1887 563.44
134 12 30	1826 741.78	1841 962.95	1857 184.15	1872 405.45	1887 626.82
134 15 00	1826 810.44	1842 031.56	1857 252.72	1872 473.96	1887 695.27
134 17 30	1826 884.20	1842 105.26	1857 326.36	1872 547.55	1887 768.80
134 20 00	1826 963.05	1842 184.06	1857 405.09	1872 626.22	1887 847.41
134 22 30	1827 046.98	1842 267.93	1857 488.91	1872 709.97	1887 931.09
134 25 00	1827 136.02	1842 356.90	1857 577.81	1872 798.80	1888 019.85
134 27 30	1827 230.14	1842 450.96	1857 671.80	1872 892.72	1888 113.69
134 30 00	1827 329.37	1842 550.11	1857 770.87	1872 991.72	1888 212.61
134 32 30	1827 433.69	1842 654.35	1857 875.03	1873 095.79	1888 316.60
134 35 00	1827 543.10	1842 763.68	1857 984.29	1873 204.96	1888 425.68
134 37 30	1827 657.62	1842 878.11	1858 098.63	1873 319.21	1888 539.83
134 40 00	1827 777.23	1842 997.64	1858 218.06	1873 438.54	1888 659.07
134 42 30	1827 901.94	1843 122.25	1858 342.58	1873 562.96	1888 783.38
134 45 00	1828 031.75	1843 251.96	1858 472.18	1873 692.47	1888 912.79
134 47 30	1828 166.66	1843 386.77	1858 606.88	1873 827.06	1889 047.27
134 50 00	1828 306.67	1843 526.67	1858 746.68	1873 966.74	1889 186.84
134 52 30	1828 451.78	1843 671.67	1858 891.56	1874 111.51	1889 331.49
134 55 00	1828 602.00	1843 821.77	1859 041.54	1874 261.37	1889 481.23
134 57 30	1828 757.31	1843 976.96	1859 196.61	1874 416.32	1889 636.05
135 00 00	1828 917.73	1844 137.26	1859 356.78	1874 576.36	1889 795.95
135 02 30	1829 083.25	1844 302.65	1859 522.04	1874 741.49	1889 960.95
135 05 00	1829 253.87	1844 473.14	1859 692.40	1874 911.70	1890 131.03
135 07 30	1829 429.61	1844 648.74	1859 867.86	1875 087.02	1890 306.20
135 10 00	1829 610.44	1844 829.43	1860 048.41	1875 267.43	1890 486.46
135 12 30	1829 796.39	1845 015.23	1860 234.06	1875 452.92	1890 671.81
135 15 00	1829 987.43	1845 206.13	1860 424.81	1875 643.52	1890 862.24
135 17 30	1830 183.59	1845 402.13	1860 620.66	1875 839.21	1891 057.77
135 20 00	1830 384.86	1845 603.24	1860 821.60	1876 039.99	1891 258.39
135 22 30	1830 591.24	1845 809.46	1861 027.65	1876 245.87	1891 464.10
135 25 00	1830 802.72	1846 020.78	1861 238.80	1876 456.85	1891 674.90
135 27 30	1831 019.32	1846 237.20	1861 455.05	1876 672.93	1891 890.80
135 30 00	1831 241.02	1846 458.73	1861 676.40	1876 894.10	1892 111.79
135 32 30	1831 467.84	1846 685.37	1861 902.85	1877 120.37	1892 337.88
135 35 00	1831 699.77	1846 917.11	1862 134.42	1877 351.74	1892 569.06
135 37 30	1831 936.82	1847 153.97	1862 371.08	1877 588.21	1892 805.33
135 40 00	1832 178.97	1847 395.93	1862 612.85	1877 829.78	1893 046.70
135 42 30	1832 426.24	1847 643.00	1862 859.73	1878 076.45	1893 293.17
135 45 00	1832 678.62	1847 895.19	1863 111.71	1878 328.23	1893 544.74
135 47 30	1832 936.13	1848 152.48	1863 368.79	1878 585.11	1893 801.40
135 50 00	1833 198.75	1848 414.89	1863 630.99	1878 847.09	1894 063.16
135 52 30	1833 466.48	1848 682.41	1863 898.29	1879 114.17	1894 330.02
135 55 00	1833 739.33	1848 955.05	1864 170.70	1879 386.36	1894 601.99
135 57 30	1834 017.30	1849 232.79	1864 448.22	1879 663.66	1894 879.05
136 00 00	1834 300.39	1849 515.65	1864 730.86	1879 946.05	1895 161.22

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	57 00 00	57 02 30	57 05 00	57 07 30	57 10 00
131 30 00	3117 560.90	3117 079.60	3116 598.14	3116 116.52	3115 634.72
131 32 30	3109 256.72	3108 784.65	3108 312.42	3107 840.02	3107 367.47
131 35 00	3100 952.43	3100 489.58	3100 026.58	3099 563.42	3099 100.10
131 37 30	3092 648.02	3092 194.41	3091 740.64	3091 286.72	3090 832.64
131 40 00	3084 343.51	3083 899.12	3083 454.59	3083 009.91	3082 565.07
131 42 30	3076 038.89	3075 603.74	3075 168.44	3074 732.99	3074 297.39
131 45 00	3067 734.17	3067 308.26	3066 882.19	3066 455.98	3066 029.63
131 47 30	3059 429.35	3059 012.67	3058 595.84	3058 178.87	3057 761.76
131 50 00	3051 124.43	3050 716.98	3050 309.39	3049 901.67	3049 493.79
131 52 30	3042 819.42	3042 421.20	3042 022.85	3041 624.37	3041 225.74
131 55 00	3034 514.30	3034 125.32	3033 736.22	3033 346.98	3032 957.60
131 57 30	3026 209.10	3025 829.36	3025 449.49	3025 069.49	3024 689.36
132 00 00	3017 903.80	3017 533.30	3017 162.68	3016 791.93	3016 421.05
132 02 30	3009 598.42	3009 237.16	3008 875.77	3008 514.27	3008 152.64
132 05 00	3001 292.94	3000 940.93	3000 588.79	3000 236.54	2999 884.15
132 07 30	2992 987.39	2992 644.62	2992 301.73	2991 958.72	2991 615.59
132 10 00	2984 681.75	2984 348.22	2984 014.58	2983 680.83	2983 346.95
132 12 30	2976 376.04	2976 051.75	2975 727.36	2975 402.85	2975 078.23
132 15 00	2968 070.24	2967 755.20	2967 440.06	2967 124.81	2966 809.44
132 17 30	2959 764.38	2959 458.58	2959 152.68	2958 846.69	2958 540.58
132 20 00	2951 458.43	2951 161.89	2950 865.24	2950 568.50	2950 271.65
132 22 30	2943 152.42	2942 865.13	2942 577.74	2942 290.25	2942 002.65
132 25 00	2934 846.34	2934 568.29	2934 290.16	2934 011.92	2933 733.59
132 27 30	2926 540.18	2926 271.40	2926 002.51	2925 733.54	2925 464.46
132 30 00	2918 233.98	2917 974.44	2917 714.81	2917 455.10	2917 195.29
132 32 30	2909 927.70	2909 677.42	2909 427.05	2909 176.59	2908 926.04
132 35 00	2901 621.36	2901 380.33	2901 139.22	2900 898.03	2900 656.74
132 37 30	2893 314.97	2893 083.20	2892 851.35	2892 619.42	2892 387.40
132 40 00	2885 008.52	2884 786.01	2884 563.42	2884 340.75	2884 117.99
132 42 30	2876 702.02	2876 488.76	2876 275.44	2876 062.03	2875 848.55
132 45 00	2868 395.47	2868 191.47	2867 987.40	2867 783.26	2867 579.05
132 47 30	2860 088.86	2859 894.13	2859 699.33	2859 504.45	2859 309.50
132 50 00	2851 782.21	2851 596.74	2851 411.20	2851 225.60	2851 039.92
132 52 30	2843 475.52	2843 299.31	2843 123.04	2842 946.71	2842 770.30
132 55 00	2835 168.79	2835 001.84	2834 834.83	2834 667.77	2834 500.64
132 57 30	2826 862.01	2826 704.33	2826 546.59	2826 388.80	2826 230.94
133 00 00	2818 555.19	2818 406.78	2818 258.31	2818 109.79	2817 961.21
133 02 30	2810 248.35	2810 109.20	2809 970.00	2809 830.75	2809 691.44
133 05 00	2801 941.46	2801 811.58	2801 681.66	2801 551.68	2801 421.66
133 07 30	2793 634.55	2793 513.93	2793 393.28	2793 272.58	2793 151.84
133 10 00	2785 327.60	2785 216.26	2785 104.88	2784 993.46	2784 881.99
133 12 30	2777 020.63	2776 918.56	2776 816.46	2776 714.32	2776 612.13
133 15 00	2768 713.64	2768 620.84	2768 528.01	2768 435.15	2768 342.24
133 17 30	2760 406.62	2760 323.09	2760 239.55	2760 155.96	2760 072.34
133 20 00	2752 099.58	2752 025.33	2751 951.06	2751 876.76	2751 802.42
133 22 30	2743 792.52	2743 727.56	2743 662.56	2743 597.54	2743 532.49
133 25 00	2735 485.45	2735 429.76	2735 374.04	2735 318.31	2735 262.54
133 27 30	2727 178.36	2727 131.96	2727 085.52	2727 039.07	2726 992.59
133 30 00	2718 871.27	2718 834.14	2718 796.99	2718 759.82	2718 722.63
133 32 30	2710 564.16	2710 536.31	2710 508.44	2710 480.57	2710 452.66
133 35 00	2702 257.05	2702 238.48	2702 219.90	2702 201.31	2702 182.70
133 37 30	2693 949.93	2693 940.65	2693 931.36	2693 922.05	2693 912.73
133 40 00	2685 642.81	2685 642.81	2685 642.80	2685 642.79	2685 642.77
133 42 30	2677 335.70	2677 344.98	2677 354.26	2677 363.54	2677 372.81
133 45 00	2669 028.57	2669 047.14	2669 065.72	2669 084.29	2669 102.86
133 47 30	2660 721.46	2660 749.32	2660 777.18	2660 805.05	2660 832.92
133 50 00	2652 414.36	2652 451.51	2652 488.66	2652 525.82	2652 562.98
133 52 30	2644 107.26	2644 153.70	2644 200.15	2644 246.61	2644 293.06
133 55 00	2635 800.17	2635 855.91	2635 911.65	2635 967.40	2636 023.16
133 57 30	2627 493.11	2627 558.13	2627 623.17	2627 688.22	2627 753.28
134 00 00	2619 186.05	2619 260.36	2619 334.70	2619 409.05	2619 483.41

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	57 00 00	57 02 30	57 05 00	57 07 30	57 10 00
131 30 00	1894 033.82	1909 250.18	1924 466.76	1939 683.54	1954 900.54
131 32 30	1893 773.72	1908 990.28	1924 207.07	1939 424.05	1954 641.25
131 35 00	1893 518.64	1908 735.41	1923 952.40	1939 169.59	1954 386.98
131 37 30	1893 268.61	1908 485.58	1923 702.77	1938 920.14	1954 137.73
131 40 00	1893 023.62	1908 240.78	1923 458.16	1938 675.73	1953 893.50
131 42 30	1892 783.66	1908 001.01	1923 218.58	1938 436.33	1953 654.29
131 45 00	1892 548.73	1907 766.28	1922 984.03	1938 201.97	1953 420.11
131 47 30	1892 318.85	1907 536.58	1922 754.51	1937 972.62	1953 190.94
131 50 00	1892 094.00	1907 311.91	1922 530.02	1937 748.31	1952 966.80
131 52 30	1891 874.20	1907 092.28	1922 310.56	1937 529.03	1952 747.69
131 55 00	1891 659.44	1906 877.69	1922 096.14	1937 314.76	1952 533.59
131 57 30	1891 449.71	1906 668.13	1921 886.74	1937 105.53	1952 324.52
132 00 00	1891 245.03	1906 463.61	1921 682.38	1936 901.33	1952 120.48
132 02 30	1891 045.38	1906 264.12	1921 483.06	1936 702.16	1951 921.47
132 05 00	1890 850.79	1906 069.68	1921 288.76	1936 508.03	1951 727.47
132 07 30	1890 661.23	1905 880.27	1921 099.51	1936 318.92	1951 538.51
132 10 00	1890 476.71	1905 695.91	1920 915.29	1936 134.84	1951 354.57
132 12 30	1890 297.25	1905 516.58	1920 736.10	1935 955.79	1951 175.67
132 15 00	1890 122.82	1905 342.29	1920 561.95	1935 781.78	1951 001.79
132 17 30	1889 953.44	1905 173.05	1920 392.85	1935 612.81	1950 832.93
132 20 00	1889 789.11	1905 008.85	1920 228.77	1935 448.86	1950 669.12
132 22 30	1889 629.83	1904 849.69	1920 069.74	1935 289.95	1950 510.33
132 25 00	1889 475.58	1904 695.57	1919 915.75	1935 136.07	1950 356.57
132 27 30	1889 326.39	1904 546.50	1919 766.79	1934 987.23	1950 207.84
132 30 00	1889 182.25	1904 402.48	1919 622.88	1934 843.43	1950 064.15
132 32 30	1889 043.16	1904 263.50	1919 484.00	1934 704.66	1949 925.49
132 35 00	1888 909.12	1904 129.56	1919 350.17	1934 570.93	1949 791.86
132 37 30	1888 780.12	1904 000.67	1919 221.38	1934 442.25	1949 663.27
132 40 00	1888 656.18	1903 876.83	1919 097.64	1934 318.59	1949 539.71
132 42 30	1888 537.29	1903 758.03	1918 978.93	1934 199.98	1949 421.19
132 45 00	1888 423.45	1903 644.28	1918 865.28	1934 086.41	1949 307.71
132 47 30	1888 314.67	1903 535.59	1918 756.66	1933 977.88	1949 199.25
132 50 00	1888 210.94	1903 431.93	1918 653.10	1933 874.39	1949 095.84
132 52 30	1888 112.26	1903 333.34	1918 554.57	1933 775.95	1948 997.47
132 55 00	1888 018.63	1903 239.79	1918 461.10	1933 682.54	1948 904.13
132 57 30	1887 930.07	1903 151.29	1918 372.67	1933 594.18	1948 815.83
133 00 00	1887 846.55	1903 067.84	1918 289.29	1933 510.86	1948 732.58
133 02 30	1887 768.10	1902 989.45	1918 210.95	1933 432.58	1948 654.36
133 05 00	1887 694.70	1902 916.11	1918 137.67	1933 359.35	1948 581.18
133 07 30	1887 626.36	1902 847.82	1918 069.44	1933 291.17	1948 513.04
133 10 00	1887 563.08	1902 784.59	1918 006.25	1933 228.03	1948 449.95
133 12 30	1887 504.85	1902 726.41	1917 948.12	1933 169.94	1948 391.90
133 15 00	1887 451.69	1902 673.29	1917 895.04	1933 116.90	1948 338.89
133 17 30	1887 403.59	1902 625.23	1917 847.01	1933 068.90	1948 290.93
133 20 00	1887 360.54	1902 582.22	1917 804.03	1933 025.96	1948 248.01
133 22 30	1887 322.56	1902 544.27	1917 766.11	1932 988.06	1948 210.14
133 25 00	1887 289.64	1902 511.38	1917 733.24	1932 955.21	1948 177.31
133 27 30	1887 261.79	1902 483.54	1917 705.42	1932 927.41	1948 149.53
133 30 00	1887 238.99	1902 460.76	1917 682.66	1932 904.66	1948 126.79
133 32 30	1887 221.26	1902 443.05	1917 664.96	1932 886.97	1948 109.11
133 35 00	1887 208.60	1902 430.39	1917 652.31	1932 874.33	1948 096.46
133 37 30	1887 201.00	1902 422.80	1917 644.72	1932 866.74	1948 088.87
133 40 00	1887 198.47	1902 420.27	1917 642.19	1932 864.21	1948 086.33
133 42 30	1887 201.00	1902 422.80	1917 644.71	1932 866.72	1948 088.84
133 45 00	1887 208.60	1902 430.39	1917 652.30	1932 874.29	1948 096.40
133 47 30	1887 221.26	1902 443.05	1917 664.94	1932 886.92	1948 109.01
133 50 00	1887 239.01	1902 460.77	1917 682.64	1932 904.61	1948 126.67
133 52 30	1887 261.81	1902 483.55	1917 705.41	1932 927.34	1948 149.38
133 55 00	1887 289.69	1902 511.40	1917 733.23	1932 955.14	1948 177.15
133 57 30	1887 322.63	1902 544.33	1917 766.12	1932 987.99	1948 209.97
134 00 00	1887 360.65	1902 582.31	1917 804.07	1933 025.91	1948 247.85

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.29	-.35	-.40	-.45	-.49	-.53	-.56	-.58	-.60	-.62	-.63	-.63

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	57 00 00	57 02 30	57 05 00	57 07 30	57 10 00
134 00 00	2619 186.05	2619 260.36	2619 334.70	2619 409.05	2619 483.41
134 02 30	2610 879.00	2610 962.62	2611 046.25	2611 129.91	2611 213.57
134 05 00	2602 571.99	2602 664.90	2602 757.83	2602 850.79	2602 943.76
134 07 30	2594 265.00	2594 367.20	2594 469.43	2594 571.69	2594 673.96
134 10 00	2585 958.02	2586 069.53	2586 181.06	2586 292.62	2586 404.20
134 12 30	2577 651.08	2577 771.89	2577 892.72	2578 013.59	2578 134.48
134 15 00	2569 344.17	2569 474.27	2569 604.41	2569 734.58	2569 864.78
134 17 30	2561 037.29	2561 176.69	2561 316.14	2561 455.62	2561 595.12
134 20 00	2552 730.45	2552 879.15	2553 027.91	2553 176.69	2553 325.51
134 22 30	2544 423.63	2544 581.64	2544 739.70	2544 897.80	2545 055.93
134 25 00	2536 116.85	2536 284.17	2536 451.54	2536 618.95	2536 786.39
134 27 30	2527 810.13	2527 986.75	2528 163.43	2528 340.15	2528 516.91
134 30 00	2519 503.44	2519 689.37	2519 875.35	2520 061.39	2520 247.47
134 32 30	2511 196.79	2511 392.03	2511 587.33	2511 782.68	2511 978.07
134 35 00	2502 890.20	2503 094.75	2503 299.36	2503 504.02	2503 708.74
134 37 30	2494 583.66	2494 797.52	2495 011.44	2495 225.42	2495 439.45
134 40 00	2486 277.16	2486 500.33	2486 723.57	2486 946.87	2487 170.22
134 42 30	2477 970.73	2478 203.22	2478 435.77	2478 668.38	2478 901.06
134 45 00	2469 664.35	2469 906.15	2470 148.02	2470 389.95	2470 631.95
134 47 30	2461 358.02	2461 609.14	2461 860.33	2462 111.59	2462 362.91
134 50 00	2453 051.77	2453 312.20	2453 572.71	2453 833.29	2454 093.93
134 52 30	2444 745.57	2445 015.32	2445 285.15	2445 555.05	2445 825.02
134 55 00	2436 439.44	2436 718.52	2436 997.67	2437 276.89	2437 556.19
134 57 30	2428 133.39	2428 421.77	2428 710.25	2428 998.80	2429 287.43
135 00 00	2419 827.39	2420 125.10	2420 422.90	2420 720.79	2421 018.74
135 02 30	2411 521.48	2411 828.51	2412 135.64	2412 442.85	2412 750.13
135 05 00	2403 215.64	2403 532.00	2403 848.45	2404 164.98	2404 481.60
135 07 30	2394 909.88	2395 235.56	2395 561.34	2395 887.20	2396 213.15
135 10 00	2386 604.20	2386 939.20	2387 274.31	2387 609.51	2387 944.80
135 12 30	2378 298.59	2378 642.93	2378 987.37	2379 331.90	2379 676.52
135 15 00	2369 993.08	2370 346.74	2370 700.51	2371 054.38	2371 408.34
135 17 30	2361 687.65	2362 050.65	2362 413.75	2362 776.95	2363 140.25
135 20 00	2353 382.31	2353 754.64	2354 127.08	2354 499.62	2354 872.25
135 22 30	2345 077.07	2345 458.72	2345 840.50	2346 222.37	2346 604.34
135 25 00	2336 771.92	2337 162.91	2337 554.02	2337 945.23	2338 336.55
135 27 30	2328 466.87	2328 867.19	2329 267.63	2329 668.18	2330 068.84
135 30 00	2320 161.90	2320 571.57	2320 981.35	2321 391.24	2321 801.25
135 32 30	2311 857.06	2312 276.06	2312 695.17	2313 114.41	2313 533.76
135 35 00	2303 552.30	2303 980.64	2304 409.10	2304 837.68	2305 266.37
135 37 30	2295 247.66	2295 685.34	2296 123.14	2296 561.06	2296 999.09
135 40 00	2286 943.13	2287 390.15	2287 837.29	2288 284.55	2288 731.94
135 42 30	2278 638.71	2279 095.06	2279 551.55	2280 008.16	2280 464.89
135 45 00	2270 334.39	2270 800.09	2271 265.93	2271 731.89	2272 197.97
135 47 30	2262 030.20	2262 505.24	2262 980.42	2263 455.73	2263 931.16
135 50 00	2253 726.12	2254 210.51	2254 695.03	2255 179.70	2255 664.48
135 52 30	2245 422.16	2245 915.90	2246 409.77	2246 903.78	2247 397.92
135 55 00	2237 118.33	2237 621.42	2238 124.63	2238 628.00	2239 131.50
135 57 30	2228 814.62	2229 327.05	2229 839.62	2230 352.34	2230 865.19
136 00 00	2220 511.04	2221 032.82	2221 554.75	2222 076.81	2222 599.03
136 02 30	2212 207.59	2212 738.72	2213 270.00	2213 801.43	2214 332.99
136 05 00	2203 904.27	2204 444.75	2204 985.38	2205 526.17	2206 067.10
136 07 30	2195 601.08	2196 150.92	2196 700.91	2197 251.05	2197 801.34
136 10 00	2187 298.04	2187 857.23	2188 416.58	2188 976.07	2189 535.73
136 12 30	2178 995.13	2179 563.68	2180 132.38	2180 701.25	2181 270.25
136 15 00	2170 692.36	2171 270.26	2171 848.33	2172 426.55	2173 004.93
136 17 30	2162 389.74	2162 977.01	2163 564.43	2164 152.01	2164 739.75
136 20 00	2154 087.27	2154 683.89	2155 280.67	2155 877.62	2156 474.73
136 22 30	2145 784.94	2146 390.92	2146 997.07	2147 603.38	2148 209.86
136 25 00	2137 482.77	2138 098.11	2138 713.62	2139 329.30	2139 945.14
136 27 30	2129 180.75	2129 805.45	2130 430.33	2131 055.37	2131 680.58
136 30 00	2120 878.88	2121 512.95	2122 147.19	2122 781.61	2123 416.19

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	57 00 00	57 02 30	57 05 00	57 07 30	57 10 00
134 00 00	1887 360.65	1902 582.31	1917 804.07	1933 025.91	1948 247.85
134 02 30	1887 403.74	1902 625.36	1917 847.08	1933 068.88	1948 290.78
134 05 00	1887 451.90	1902 673.48	1917 895.16	1933 116.91	1948 338.76
134 07 30	1887 505.13	1902 726.67	1917 948.30	1933 170.01	1948 391.81
134 10 00	1887 563.44	1902 784.92	1918 006.51	1933 228.16	1948 449.90
134 12 30	1887 626.82	1902 848.25	1918 069.78	1933 291.37	1948 513.06
134 15 00	1887 695.27	1902 916.65	1918 138.12	1933 359.65	1948 581.27
134 17 30	1887 768.80	1902 990.12	1918 211.52	1933 432.99	1948 654.54
134 20 00	1887 847.41	1903 068.66	1918 290.00	1933 511.40	1948 732.87
134 22 30	1887 931.09	1903 152.27	1918 373.54	1933 594.86	1948 816.26
134 25 00	1888 019.85	1903 240.96	1918 462.15	1933 683.39	1948 904.71
134 27 30	1888 113.69	1903 334.72	1918 555.82	1933 776.99	1948 998.22
134 30 00	1888 212.61	1903 433.56	1918 654.58	1933 875.65	1949 096.80
134 32 30	1888 316.60	1903 537.46	1918 758.40	1933 979.38	1949 200.43
134 35 00	1888 425.68	1903 646.45	1918 867.29	1934 088.18	1949 309.13
134 37 30	1888 539.83	1903 760.51	1918 981.25	1934 202.04	1949 422.89
134 40 00	1888 659.07	1903 879.65	1919 100.29	1934 320.97	1949 541.72
134 42 30	1888 783.38	1904 003.86	1919 224.39	1934 444.97	1949 665.61
134 45 00	1888 912.79	1904 133.16	1919 353.58	1934 574.04	1949 794.57
134 47 30	1889 047.27	1904 267.52	1919 487.83	1934 708.18	1949 928.59
134 50 00	1889 186.84	1904 406.97	1919 627.16	1934 847.39	1950 067.67
134 52 30	1889 331.49	1904 551.50	1919 771.57	1934 991.67	1950 211.83
134 55 00	1889 481.23	1904 701.12	1919 921.06	1935 141.03	1950 361.05
134 57 30	1889 636.05	1904 855.81	1920 075.62	1935 295.46	1950 515.34
135 00 00	1889 795.95	1905 015.58	1920 235.26	1935 454.96	1950 674.71
135 02 30	1889 960.95	1905 180.44	1920 399.98	1935 619.53	1950 839.14
135 05 00	1890 131.03	1905 350.38	1920 569.77	1935 789.18	1951 008.63
135 07 30	1890 306.20	1905 525.40	1920 744.64	1935 963.90	1951 183.21
135 10 00	1890 486.46	1905 705.51	1920 924.60	1936 143.70	1951 362.85
135 12 30	1890 671.81	1905 890.70	1921 109.63	1936 328.58	1951 547.56
135 15 00	1890 862.24	1906 080.98	1921 299.75	1936 518.53	1951 737.35
135 17 30	1891 057.77	1906 276.34	1921 494.95	1936 713.57	1951 932.21
135 20 00	1891 258.39	1906 476.79	1921 695.23	1936 913.67	1952 132.15
135 22 30	1891 464.10	1906 682.33	1921 900.60	1937 118.86	1952 337.16
135 25 00	1891 674.90	1906 892.96	1922 111.04	1937 329.13	1952 547.24
135 27 30	1891 890.80	1907 108.68	1922 326.58	1937 544.48	1952 762.40
135 30 00	1892 111.79	1907 329.48	1922 547.19	1937 764.90	1952 982.63
135 32 30	1892 337.88	1907 555.37	1922 772.90	1937 990.42	1953 207.95
135 35 00	1892 569.06	1907 786.36	1923 003.69	1938 221.01	1953 438.34
135 37 30	1892 805.33	1908 022.44	1923 239.56	1938 456.68	1953 673.81
135 40 00	1893 046.70	1908 263.61	1923 480.53	1938 697.44	1953 914.36
135 42 30	1893 293.17	1908 509.88	1923 726.58	1938 943.28	1954 159.99
135 45 00	1893 544.74	1908 761.23	1923 977.73	1939 194.21	1954 410.69
135 47 30	1893 801.40	1909 017.68	1924 233.96	1939 450.22	1954 666.48
135 50 00	1894 063.16	1909 279.22	1924 495.28	1939 711.32	1954 927.35
135 52 30	1894 330.02	1909 545.86	1924 761.69	1939 977.50	1955 193.31
135 55 00	1894 601.99	1909 817.59	1925 033.19	1940 248.77	1955 464.34
135 57 30	1894 879.05	1910 094.42	1925 309.79	1940 525.13	1955 740.46
136 00 00	1895 161.22	1910 376.35	1925 591.48	1940 806.58	1956 021.66
136 02 30	1895 448.48	1910 663.37	1925 878.26	1941 093.11	1956 307.94
136 05 00	1895 740.85	1910 955.50	1926 170.14	1941 384.73	1956 599.32
136 07 30	1896 038.32	1911 252.72	1926 467.11	1941 681.45	1956 895.77
136 10 00	1896 340.90	1911 555.04	1926 769.17	1941 983.25	1957 197.32
136 12 30	1896 648.58	1911 862.47	1927 076.33	1942 290.15	1957 503.95
136 15 00	1896 961.37	1912 174.99	1927 388.59	1942 602.14	1957 815.67
136 17 30	1897 279.26	1912 492.61	1927 705.94	1942 919.22	1958 132.47
136 20 00	1897 602.26	1912 815.34	1928 028.39	1943 241.40	1958 454.37
136 22 30	1897 930.36	1913 143.17	1928 355.94	1943 568.66	1958 781.35
136 25 00	1898 263.58	1913 476.10	1928 688.59	1943 901.02	1959 113.43
136 27 30	1898 601.90	1913 814.14	1929 026.34	1944 238.49	1959 450.60
136 30 00	1898 945.34	1914 157.28	1929 369.19	1944 581.04	1959 792.85

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.30	-.36	-.41	-.46	-.50	-.54	-.57	-.59	-.61	-.63	-.64	-.64

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	57 10 00	57 12 30	57 15 00	57 17 30	57 20 00
131 30 00	3115 634.72	3115 152.75	3114 670.61	3114 188.28	3113 705.77
131 32 30	3107 367.47	3106 894.73	3106 421.84	3105 948.76	3105 475.50
131 35 00	3099 100.10	3098 636.62	3098 172.95	3097 709.13	3097 245.11
131 37 30	3090 832.64	3090 378.40	3089 923.98	3089 469.40	3089 014.64
131 40 00	3082 565.07	3082 120.06	3081 674.90	3081 229.56	3080 784.05
131 42 30	3074 297.39	3073 861.64	3073 425.72	3072 989.63	3072 553.39
131 45 00	3066 029.63	3065 603.12	3065 176.45	3064 749.62	3064 322.61
131 47 30	3057 761.76	3057 344.49	3056 927.08	3056 509.49	3056 091.75
131 50 00	3049 493.79	3049 085.78	3048 677.61	3048 269.28	3047 860.80
131 52 30	3041 225.74	3040 826.98	3040 428.06	3040 028.99	3039 629.76
131 55 00	3032 957.60	3032 568.08	3032 178.41	3031 788.60	3031 398.63
131 57 30	3024 689.36	3024 309.10	3023 928.68	3023 548.12	3023 167.42
132 00 00	3016 421.05	3016 050.03	3015 678.88	3015 307.58	3014 936.13
132 02 30	3008 152.64	3007 790.88	3007 428.98	3007 066.94	3006 704.75
132 05 00	2999 884.15	2999 531.65	2999 179.00	2998 826.22	2998 473.30
132 07 30	2991 615.59	2991 272.34	2990 928.96	2990 585.44	2990 241.78
132 10 00	2983 346.95	2983 012.95	2982 678.82	2982 344.57	2982 010.18
132 12 30	2975 078.23	2974 753.49	2974 428.62	2974 103.63	2973 778.50
132 15 00	2966 809.44	2966 493.97	2966 178.36	2965 862.63	2965 546.77
132 17 30	2958 540.58	2958 234.36	2957 928.02	2957 621.56	2957 314.97
132 20 00	2950 271.65	2949 974.69	2949 677.61	2949 380.41	2949 083.09
132 22 30	2942 002.65	2941 714.96	2941 427.14	2941 139.21	2940 851.17
132 25 00	2933 733.59	2933 455.15	2933 176.61	2932 897.95	2932 619.17
132 27 30	2925 464.46	2925 195.29	2924 926.01	2924 656.62	2924 387.12
132 30 00	2917 195.29	2916 935.38	2916 675.37	2916 415.25	2916 155.03
132 32 30	2908 926.04	2908 675.40	2908 424.66	2908 173.82	2907 922.86
132 35 00	2900 656.74	2900 415.37	2900 173.90	2899 932.33	2899 690.65
132 37 30	2892 387.40	2892 155.29	2891 923.09	2891 690.79	2891 458.40
132 40 00	2884 117.99	2883 895.16	2883 672.23	2883 449.21	2883 226.09
132 42 30	2875 848.55	2875 634.98	2875 421.32	2875 207.58	2874 993.73
132 45 00	2867 579.05	2867 374.75	2867 170.37	2866 965.90	2866 761.35
132 47 30	2859 309.50	2859 114.49	2858 919.38	2858 724.19	2858 528.92
132 50 00	2851 039.92	2850 854.17	2850 668.34	2850 482.44	2850 296.45
132 52 30	2842 770.30	2842 593.83	2842 417.28	2842 240.65	2842 063.94
132 55 00	2834 500.64	2834 333.44	2834 166.17	2833 998.83	2833 831.40
132 57 30	2826 230.94	2826 073.03	2825 915.03	2825 756.97	2825 598.83
133 00 00	2817 961.21	2817 812.57	2817 663.86	2817 515.08	2817 366.23
133 02 30	2809 691.44	2809 552.08	2809 412.66	2809 273.16	2809 133.59
133 05 00	2801 421.66	2801 291.57	2801 161.43	2801 031.23	2800 900.95
133 07 30	2793 151.84	2793 031.03	2792 910.10	2792 789.26	2792 668.27
133 10 00	2784 881.99	2784 770.47	2784 658.90	2784 547.27	2784 435.58
133 12 30	2776 612.13	2776 509.89	2776 407.61	2776 305.26	2776 202.87
133 15 00	2768 342.24	2768 249.29	2768 156.29	2768 063.25	2767 970.14
133 17 30	2760 072.34	2759 988.68	2759 904.97	2759 821.21	2759 737.39
133 20 00	2751 802.42	2751 728.05	2751 653.62	2751 579.16	2751 504.64
133 22 30	2743 532.49	2743 467.40	2743 402.27	2743 337.10	2743 271.88
133 25 00	2735 262.54	2735 206.74	2735 150.91	2735 095.03	2735 039.11
133 27 30	2726 992.59	2726 946.08	2726 899.55	2726 852.96	2726 806.34
133 30 00	2718 722.63	2718 685.41	2718 648.17	2718 610.88	2718 573.57
133 32 30	2710 452.66	2710 424.74	2710 396.79	2710 368.80	2710 340.78
133 35 00	2702 182.70	2702 164.07	2702 145.42	2702 126.73	2702 108.01
133 37 30	2693 912.73	2693 903.40	2693 894.04	2693 884.66	2693 875.25
133 40 00	2685 642.77	2685 642.73	2685 642.67	2685 642.59	2685 642.48
133 42 30	2677 372.81	2677 382.07	2677 391.31	2677 400.53	2677 409.73
133 45 00	2669 102.86	2669 121.41	2669 139.96	2669 158.48	2669 176.99
133 47 30	2660 832.92	2660 860.77	2660 888.62	2660 916.44	2660 944.25
133 50 00	2652 562.98	2652 600.14	2652 637.29	2652 674.42	2652 711.54
133 52 30	2644 293.06	2644 339.52	2644 385.97	2644 432.42	2644 478.85
133 55 00	2636 023.16	2636 078.92	2636 134.68	2636 190.43	2636 246.17
133 57 30	2627 753.28	2627 818.34	2627 883.41	2627 948.47	2628 013.53
134 00 00	2619 483.41	2619 557.78	2619 632.16	2619 706.53	2619 780.90

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	57 10 00	57 12 30	57 15 00	57 17 30	57 20 00
131 30 00	1954 900.54	1970 117.75	1985 335.18	2000 552.82	2015 770.68
131 32 30	1954 641.25	1969 858.66	1985 076.28	2000 294.12	2015 512.18
131 35 00	1954 386.98	1969 604.59	1984 822.40	2000 040.44	2015 258.68
131 37 30	1954 137.73	1969 355.53	1984 573.53	1999 791.76	2015 010.19
131 40 00	1953 893.50	1969 111.49	1984 329.68	1999 548.09	2014 766.70
131 42 30	1953 654.29	1968 872.46	1984 090.83	1999 309.43	2014 528.22
131 45 00	1953 420.11	1968 638.46	1983 857.00	1999 075.77	2014 294.74
131 47 30	1953 190.94	1968 409.47	1983 628.19	1998 847.13	2014 066.27
131 50 00	1952 966.80	1968 185.50	1983 404.39	1998 623.50	2013 842.80
131 52 30	1952 747.69	1967 966.55	1983 185.61	1998 404.88	2013 624.35
131 55 00	1952 533.59	1967 752.62	1982 971.84	1998 191.27	2013 410.90
131 57 30	1952 324.52	1967 543.71	1982 763.09	1997 982.67	2013 202.45
132 00 00	1952 120.48	1967 339.83	1982 559.36	1997 779.09	2012 999.02
132 02 30	1951 921.47	1967 140.96	1982 360.64	1997 580.53	2012 800.60
132 05 00	1951 727.47	1966 947.12	1982 166.94	1997 386.97	2012 607.19
132 07 30	1951 538.51	1966 758.30	1981 978.26	1997 198.44	2012 418.79
132 10 00	1951 354.57	1966 574.50	1981 794.61	1997 014.91	2012 235.40
132 12 30	1951 175.67	1966 395.73	1981 615.97	1996 836.41	2012 057.03
132 15 00	1951 001.79	1966 221.98	1981 442.35	1996 662.92	2011 883.66
132 17 30	1950 832.93	1966 053.26	1981 273.76	1996 494.45	2011 715.31
132 20 00	1950 669.12	1965 889.56	1981 110.18	1996 330.99	2011 551.97
132 22 30	1950 510.33	1965 730.89	1980 951.63	1996 172.55	2011 393.65
132 25 00	1950 356.57	1965 577.25	1980 798.11	1996 019.14	2011 240.35
132 27 30	1950 207.84	1965 428.63	1980 649.60	1995 870.74	2011 092.05
132 30 00	1950 064.15	1965 285.05	1980 506.11	1995 727.36	2010 948.78
132 32 30	1949 925.49	1965 146.49	1980 367.66	1995 589.01	2010 810.52
132 35 00	1949 791.86	1965 012.97	1980 234.23	1995 455.67	2010 677.28
132 37 30	1949 663.27	1964 884.47	1980 105.83	1995 327.36	2010 549.06
132 40 00	1949 539.71	1964 761.00	1979 982.45	1995 204.07	2010 425.85
132 42 30	1949 421.19	1964 642.57	1979 864.10	1995 085.80	2010 307.67
132 45 00	1949 307.71	1964 529.16	1979 750.77	1994 972.56	2010 194.50
132 47 30	1949 199.25	1964 420.79	1979 642.48	1994 864.34	2010 086.36
132 50 00	1949 095.84	1964 317.46	1979 539.22	1994 761.15	2009 983.23
132 52 30	1948 997.47	1964 219.15	1979 440.98	1994 662.98	2009 885.13
132 55 00	1948 904.13	1964 125.88	1979 347.78	1994 569.84	2009 792.05
132 57 30	1948 815.83	1964 037.64	1979 259.60	1994 481.72	2009 703.99
133 00 00	1948 732.58	1963 954.44	1979 176.46	1994 398.64	2009 620.95
133 02 30	1948 654.36	1963 876.28	1979 098.35	1994 320.57	2009 542.95
133 05 00	1948 581.10	1963 803.16	1979 025.27	1994 247.54	2009 469.96
133 07 30	1948 513.04	1963 735.07	1978 957.23	1994 179.55	2009 402.00
133 10 00	1948 449.95	1963 672.02	1978 894.22	1994 116.57	2009 339.06
133 12 30	1948 391.90	1963 614.01	1978 836.24	1994 058.63	2009 281.15
133 15 00	1948 338.89	1963 561.03	1978 783.30	1994 005.71	2009 228.27
133 17 30	1948 290.93	1963 513.10	1978 735.40	1993 957.84	2009 180.41
133 20 00	1948 248.01	1963 470.21	1978 692.53	1993 914.99	2009 137.58
133 22 30	1948 210.14	1963 432.36	1978 654.69	1993 877.17	2009 099.78
133 25 00	1948 177.31	1963 399.54	1978 621.90	1993 844.39	2009 067.01
133 27 30	1948 149.53	1963 371.77	1978 594.14	1993 816.65	2009 039.27
133 30 00	1948 126.79	1963 349.05	1978 571.42	1993 793.94	2009 016.56
133 32 30	1948 109.11	1963 331.37	1978 553.74	1993 776.25	2008 998.88
133 35 00	1948 096.46	1963 318.73	1978 541.10	1993 763.61	2008 986.23
133 37 30	1948 088.87	1963 311.13	1978 533.50	1993 756.01	2008 978.62
133 40 00	1948 086.33	1963 308.58	1978 530.94	1993 753.43	2008 976.03
133 42 30	1948 088.84	1963 311.08	1978 533.43	1993 755.90	2008 978.48
133 45 00	1948 096.40	1963 318.63	1978 540.95	1993 763.41	2008 985.97
133 47 30	1948 109.01	1963 331.21	1978 553.52	1993 775.95	2008 998.49
133 50 00	1948 126.67	1963 348.85	1978 571.13	1993 793.54	2009 016.04
133 52 30	1948 149.38	1963 371.54	1978 593.79	1993 816.15	2009 038.63
133 55 00	1948 177.15	1963 399.27	1978 621.49	1993 843.82	2009 066.25
133 57 30	1948 209.97	1963 432.06	1978 654.23	1993 876.53	2009 098.91
134 00 00	1948 247.85	1963 469.89	1978 692.03	1993 914.27	2009 136.62

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.29	-.35	-.40	-.45	-.49	-.53	-.56	-.58	-.60	-.62	-.63	-.63

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	57 10 00	57 12 30	57 15 00	57 17 30	57 20 00
134 00 00	2619 483.41	2619 557.78	2619 632.16	2619 706.53	2619 780.90
134 02 30	2611 213.57	2611 297.24	2611 380.93	2611 464.61	2611 548.29
134 05 00	2602 943.76	2603 036.74	2603 129.73	2603 222.73	2603 315.73
134 07 30	2594 673.96	2594 776.26	2594 878.56	2594 980.87	2595 083.19
134 10 00	2586 404.20	2586 515.80	2586 627.42	2586 739.05	2586 850.68
134 12 30	2578 134.48	2578 255.39	2578 376.32	2578 497.27	2578 618.22
134 15 00	2569 864.78	2569 995.00	2570 125.25	2570 255.51	2570 385.78
134 17 30	2561 595.12	2561 734.66	2561 874.22	2562 013.80	2562 153.39
134 20 00	2553 325.51	2553 474.36	2553 623.24	2553 772.13	2553 921.05
134 22 30	2545 055.93	2545 214.10	2545 372.29	2545 530.51	2545 688.75
134 25 00	2536 786.39	2536 953.88	2537 121.39	2537 288.93	2537 456.50
134 27 30	2528 516.91	2528 693.71	2528 870.54	2529 047.41	2529 224.30
134 30 00	2520 247.47	2520 433.58	2520 619.74	2520 805.92	2520 992.14
134 32 30	2511 978.07	2512 173.51	2512 368.99	2512 564.50	2512 760.05
134 35 00	2503 708.74	2503 913.50	2504 118.30	2504 323.14	2504 528.01
134 37 30	2495 439.45	2495 653.53	2495 867.66	2496 081.83	2496 296.03
134 40 00	2487 170.22	2487 393.62	2487 617.08	2487 840.57	2488 064.11
134 42 30	2478 901.06	2479 133.79	2479 366.56	2479 599.39	2479 832.26
134 45 00	2470 631.95	2470 874.00	2471 116.11	2471 358.27	2471 600.47
134 47 30	2462 362.91	2462 614.28	2462 865.72	2463 117.21	2463 368.75
134 50 00	2454 093.93	2454 354.64	2454 615.41	2454 876.23	2455 137.10
134 52 30	2445 825.02	2446 095.06	2446 365.16	2446 635.31	2446 905.53
134 55 00	2437 556.19	2437 835.56	2438 114.99	2438 394.48	2438 674.02
134 57 30	2429 287.43	2429 576.13	2429 864.89	2430 153.72	2430 442.60
135 00 00	2421 018.74	2421 316.77	2421 614.86	2421 913.03	2422 211.26
135 02 30	2412 750.13	2413 057.49	2413 364.93	2413 672.44	2413 980.00
135 05 00	2404 481.60	2404 798.30	2405 115.07	2405 431.91	2405 748.82
135 07 30	2396 213.15	2396 539.19	2396 865.30	2397 191.48	2397 517.73
135 10 00	2387 944.80	2388 280.16	2388 615.62	2388 951.14	2389 286.74
135 12 30	2379 676.52	2380 021.23	2380 366.02	2380 710.88	2381 055.83
135 15 00	2371 408.34	2371 762.39	2372 116.51	2372 470.73	2372 825.01
135 17 30	2363 140.25	2363 503.64	2363 867.11	2364 230.67	2364 594.30
135 20 00	2354 872.25	2355 244.97	2355 617.79	2355 990.69	2356 363.68
135 22 30	2346 604.34	2346 986.41	2347 368.58	2347 750.83	2348 133.17
135 25 00	2338 336.55	2338 727.96	2339 119.47	2339 511.07	2339 902.75
135 27 30	2330 068.84	2330 469.60	2330 870.46	2331 271.41	2331 672.45
135 30 00	2321 801.25	2322 211.35	2322 621.55	2323 031.86	2323 442.25
135 32 30	2313 533.76	2313 953.21	2314 372.76	2314 792.41	2315 212.16
135 35 00	2305 266.37	2305 695.17	2306 124.08	2306 553.08	2306 982.19
135 37 30	2296 999.09	2297 437.24	2297 875.50	2298 313.86	2298 752.33
135 40 00	2288 731.94	2289 179.44	2289 627.05	2290 074.77	2290 522.59
135 42 30	2280 464.89	2280 921.74	2281 378.71	2281 835.79	2282 292.97
135 45 00	2272 197.97	2272 664.17	2273 130.49	2273 596.92	2274 063.46
135 47 30	2263 931.16	2264 406.73	2264 882.40	2265 358.19	2265 834.09
135 50 00	2255 664.48	2256 149.39	2256 634.43	2257 119.58	2257 604.84
135 52 30	2247 397.92	2247 892.19	2248 386.58	2248 881.09	2249 375.72
135 55 00	2239 131.50	2239 635.12	2240 138.87	2240 642.74	2241 146.74
135 57 30	2230 865.19	2231 378.18	2231 891.29	2232 404.53	2232 917.88
136 00 00	2222 599.03	2223 121.37	2223 643.85	2224 166.45	2224 689.17
136 02 30	2214 332.99	2214 864.70	2215 396.53	2215 928.50	2216 460.60
136 05 00	2206 067.10	2206 608.16	2207 149.37	2207 690.70	2208 232.16
136 07 30	2197 801.34	2198 351.76	2198 902.33	2199 453.04	2200 003.87
136 10 00	2189 535.73	2190 095.52	2190 655.45	2191 215.52	2191 775.72
136 12 30	2181 270.25	2181 839.41	2182 408.71	2182 978.15	2183 547.73
136 15 00	2173 004.93	2173 583.45	2174 162.12	2174 740.94	2175 319.88
136 17 30	2164 739.75	2165 327.64	2165 915.68	2166 503.87	2167 092.19
136 20 00	2156 474.73	2157 071.99	2157 669.40	2158 266.95	2158 864.66
136 22 30	2148 209.86	2148 816.48	2149 423.27	2150 030.20	2150 637.28
136 25 00	2139 945.14	2140 561.14	2141 177.30	2141 793.61	2142 410.07
136 27 30	2131 680.58	2132 305.96	2132 931.49	2133 557.17	2134 183.01
136 30 00	2123 416.19	2124 050.93	2124 685.84	2125 320.90	2125 956.12

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	57 10 00	57 12 30	57 15 00	57 17 30	57 20 00
134 00 00	1948 247.85	1963 469.89	1978 692.03	1993 914.27	2009 136.62
134 02 30	1948 290.78	1963 512.78	1978 734.86	1993 957.06	2009 179.35
134 05 00	1948 338.76	1963 560.72	1978 782.76	1994 004.90	2009 227.13
134 07 30	1948 391.81	1963 613.70	1978 835.68	1994 057.77	2009 279.94
134 10 00	1948 449.90	1963 671.74	1978 893.66	1994 115.69	2009 337.80
134 12 30	1948 513.06	1963 734.83	1978 956.69	1994 178.65	2009 400.70
134 15 00	1948 581.27	1963 802.98	1979 024.77	1994 246.66	2009 468.63
134 17 30	1948 654.54	1963 876.18	1979 097.90	1994 319.71	2009 541.61
134 20 00	1948 732.87	1963 954.44	1979 176.08	1994 397.82	2009 619.63
134 22 30	1948 816.26	1964 037.75	1979 259.32	1994 480.96	2009 702.69
134 25 00	1948 904.71	1964 126.12	1979 347.59	1994 569.16	2009 790.80
134 27 30	1948 998.22	1964 219.54	1979 440.93	1994 662.40	2009 883.95
134 30 00	1949 096.80	1964 318.02	1979 539.32	1994 760.70	2009 982.15
134 32 30	1949 200.43	1964 421.57	1979 642.76	1994 864.04	2010 085.38
134 35 00	1949 309.13	1964 530.16	1979 751.26	1994 972.43	2010 193.68
134 37 30	1949 422.89	1964 643.82	1979 864.81	1995 085.88	2010 307.01
134 40 00	1949 541.72	1964 762.54	1979 983.42	1995 204.37	2010 425.39
134 42 30	1949 665.61	1964 886.32	1980 107.08	1995 327.91	2010 548.81
134 45 00	1949 794.57	1965 015.15	1980 235.80	1995 456.52	2010 677.28
134 47 30	1949 928.59	1965 149.06	1980 369.58	1995 590.16	2010 810.81
134 50 00	1950 067.67	1965 288.02	1980 508.41	1995 728.87	2010 949.38
134 52 30	1950 211.83	1965 432.05	1980 652.31	1995 872.64	2011 093.01
134 55 00	1950 361.05	1965 581.13	1980 801.26	1996 021.45	2011 241.68
134 57 30	1950 515.34	1965 735.29	1980 955.27	1996 175.32	2011 395.41
135 00 00	1950 674.71	1965 894.50	1981 114.34	1996 334.24	2011 554.18
135 02 30	1950 839.14	1966 058.79	1981 278.48	1996 498.22	2011 718.01
135 05 00	1951 008.63	1966 228.14	1981 447.68	1996 667.27	2011 886.90
135 07 30	1951 183.21	1966 402.56	1981 621.93	1996 841.37	2012 060.83
135 10 00	1951 362.85	1966 582.03	1981 801.25	1997 020.52	2012 239.82
135 12 30	1951 547.56	1966 766.58	1981 985.64	1997 204.74	2012 423.87
135 15 00	1951 737.35	1966 956.21	1982 175.08	1997 394.01	2012 612.97
135 17 30	1951 932.21	1967 150.90	1982 369.59	1997 588.35	2012 807.13
135 20 00	1952 132.15	1967 350.65	1982 569.18	1997 787.75	2013 006.34
135 22 30	1952 337.16	1967 555.48	1982 773.82	1997 992.20	2013 210.61
135 25 00	1952 547.24	1967 765.38	1982 983.54	1998 201.73	2013 419.94
135 27 30	1952 762.40	1967 980.35	1983 198.31	1998 416.31	2013 634.32
135 30 00	1952 982.63	1968 200.39	1983 418.16	1998 635.95	2013 853.77
135 32 30	1953 207.95	1968 425.50	1983 643.07	1998 860.66	2014 078.27
135 35 00	1953 438.34	1968 655.69	1983 873.06	1999 090.44	2014 307.84
135 37 30	1953 673.81	1968 890.95	1984 108.11	1999 325.28	2014 542.46
135 40 00	1953 914.36	1969 131.29	1984 348.23	1999 565.19	2014 782.15
135 42 30	1954 159.99	1969 376.70	1984 593.42	1999 810.16	2015 026.90
135 45 00	1954 410.69	1969 627.19	1984 843.69	2000 060.20	2015 276.72
135 47 30	1954 666.48	1969 882.75	1985 099.03	2000 315.31	2015 531.59
135 50 00	1954 927.35	1970 143.40	1985 359.43	2000 575.48	2015 791.53
135 52 30	1955 193.31	1970 409.12	1985 624.92	2000 840.73	2016 056.54
135 55 00	1955 464.34	1970 679.91	1985 895.47	2001 111.04	2016 326.60
135 57 30	1955 740.46	1970 955.79	1986 171.11	2001 386.43	2016 601.74
136 00 00	1956 021.66	1971 236.74	1986 451.81	2001 666.88	2016 881.94
136 02 30	1956 307.94	1971 522.78	1986 737.59	2001 952.41	2017 167.20
136 05 00	1956 599.32	1971 813.89	1987 028.45	2002 243.00	2017 457.54
136 07 30	1956 895.77	1972 110.09	1987 324.38	2002 538.68	2017 752.95
136 10 00	1957 197.32	1972 411.37	1987 625.40	2002 839.42	2018 053.42
136 12 30	1957 503.95	1972 717.73	1987 931.49	2003 145.24	2018 358.96
136 15 00	1957 815.67	1973 029.18	1988 242.66	2003 456.12	2018 669.57
136 17 30	1958 132.47	1973 345.71	1988 558.91	2003 772.09	2018 985.26
136 20 00	1958 454.37	1973 667.32	1988 880.24	2004 093.13	2019 306.01
136 22 30	1958 781.35	1973 994.02	1989 206.64	2004 419.26	2019 631.83
136 25 00	1959 113.43	1974 325.80	1989 538.14	2004 750.45	2019 962.73
136 27 30	1959 450.60	1974 662.67	1989 874.71	2005 086.72	2020 298.70
136 30 00	1959 792.85	1975 004.63	1990 216.37	2005 428.07	2020 639.74

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.29	-.35	-.40	-.45	-.49	-.53	-.56	-.58	-.60	-.62	-.63	-.63

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	57 20 00	57 22 30	57 25 00	57 27 30	57 30 00
132 00 00	3014 936.13	3014 564.53	3014 192.78	3013 820.87	3013 448.81
132 02 30	3006 704.75	3006 342.42	3005 979.94	3005 617.31	3005 254.50
132 05 00	2998 473.30	2998 120.24	2997 767.03	2997 413.66	2997 060.14
132 07 30	2990 241.78	2989 897.98	2989 554.04	2989 209.95	2988 865.71
132 10 00	2982 010.18	2981 675.65	2981 340.98	2981 006.17	2980 671.20
132 12 30	2973 778.50	2973 453.25	2973 127.85	2972 802.31	2972 476.62
132 15 00	2965 546.77	2965 230.79	2964 914.66	2964 598.40	2964 281.99
132 17 30	2957 314.97	2957 008.25	2956 701.40	2956 394.42	2956 087.29
132 20 00	2949 083.09	2948 785.65	2948 488.08	2948 190.38	2947 892.53
132 22 30	2940 851.17	2940 563.00	2940 274.70	2939 986.28	2939 697.72
132 25 00	2932 619.17	2932 340.28	2932 061.27	2931 782.12	2931 502.84
132 27 30	2924 387.12	2924 117.51	2923 847.77	2923 577.90	2923 307.92
132 30 00	2916 155.03	2915 894.69	2915 634.23	2915 373.64	2915 112.94
132 32 30	2907 922.86	2907 671.80	2907 420.62	2907 169.33	2906 917.91
132 35 00	2899 690.65	2899 448.87	2899 206.97	2898 964.97	2898 722.84
132 37 30	2891 458.40	2891 225.89	2890 993.28	2890 760.56	2890 527.72
132 40 00	2883 226.09	2883 002.87	2882 779.54	2882 556.10	2882 332.56
132 42 30	2874 993.73	2874 779.80	2874 565.76	2874 351.61	2874 137.36
132 45 00	2866 761.35	2866 556.69	2866 351.94	2866 147.08	2865 942.12
132 47 30	2858 528.92	2858 333.55	2858 138.08	2857 942.51	2857 746.84
132 50 00	2850 296.45	2850 110.36	2849 924.18	2849 737.91	2849 551.53
132 52 30	2842 063.94	2841 887.14	2841 710.25	2841 533.27	2841 356.19
132 55 00	2833 831.40	2833 663.89	2833 496.29	2833 328.60	2833 160.82
132 57 30	2825 598.83	2825 440.61	2825 282.31	2825 123.91	2824 965.43
133 00 00	2817 366.23	2817 217.30	2817 068.29	2816 919.19	2816 770.00
133 02 30	2809 133.59	2808 993.96	2808 854.24	2808 714.44	2808 574.56
133 05 00	2800 900.95	2800 770.61	2800 640.18	2800 509.68	2800 379.09
133 07 30	2792 668.27	2792 547.22	2792 426.09	2792 304.89	2792 183.61
133 10 00	2784 435.58	2784 323.82	2784 211.99	2784 100.09	2783 988.11
133 12 30	2776 202.87	2776 100.41	2775 997.88	2775 895.27	2775 792.60
133 15 00	2767 970.14	2767 876.97	2767 783.74	2767 690.45	2767 597.07
133 17 30	2759 737.39	2759 653.53	2759 569.60	2759 485.60	2759 401.54
133 20 00	2751 504.64	2751 430.07	2751 355.45	2751 280.76	2751 206.00
133 22 30	2743 271.88	2743 206.61	2743 141.29	2743 075.90	2743 010.46
133 25 00	2735 039.11	2734 983.14	2734 927.12	2734 871.04	2734 814.91
133 27 30	2726 806.34	2726 759.67	2726 712.96	2726 666.19	2726 619.37
133 30 00	2718 573.57	2718 536.20	2718 498.79	2718 461.33	2718 423.82
133 32 30	2710 340.78	2710 312.73	2710 284.62	2710 256.48	2710 228.28
133 35 00	2702 108.01	2702 089.26	2702 070.47	2702 051.63	2702 032.75
133 37 30	2693 875.25	2693 865.80	2693 856.31	2693 846.79	2693 837.21
133 40 00	2685 642.48	2685 642.34	2685 642.17	2685 641.96	2685 641.70
133 42 30	2677 409.73	2677 418.90	2677 428.04	2677 437.14	2677 446.20
133 45 00	2669 176.99	2669 195.46	2669 213.92	2669 232.33	2669 250.71
133 47 30	2660 944.25	2660 972.05	2660 999.81	2661 027.54	2661 055.25
133 50 00	2652 711.54	2652 748.64	2652 785.73	2652 822.78	2652 859.80
133 52 30	2644 478.85	2644 525.27	2644 571.66	2644 618.03	2644 664.37
133 55 00	2636 246.17	2636 301.90	2636 357.62	2636 413.31	2636 468.97
133 57 30	2628 013.53	2628 078.57	2628 143.60	2628 208.61	2628 273.60
134 00 00	2619 780.90	2619 855.26	2619 929.61	2620 003.94	2620 078.25
134 02 30	2611 548.29	2611 631.97	2611 715.64	2611 799.30	2611 882.94
134 05 00	2603 315.73	2603 408.73	2603 501.72	2603 594.70	2603 687.66
134 07 30	2595 083.19	2595 185.51	2595 287.82	2595 390.12	2595 492.42
134 10 00	2586 850.68	2586 962.32	2587 073.96	2587 185.59	2587 297.21
134 12 30	2578 618.22	2578 739.18	2578 860.14	2578 981.10	2579 102.05
134 15 00	2570 385.78	2570 516.07	2570 646.35	2570 776.64	2570 906.93
134 17 30	2562 153.39	2562 293.00	2562 432.61	2562 572.23	2562 711.85
134 20 00	2553 921.05	2554 069.98	2554 218.93	2554 367.87	2554 516.82
134 22 30	2545 688.75	2545 847.01	2546 005.28	2546 163.56	2546 321.84
134 25 00	2537 456.50	2537 624.08	2537 791.68	2537 959.29	2538 126.92
134 27 30	2529 224.30	2529 401.21	2529 578.14	2529 755.08	2529 932.04
134 30 00	2520 992.14	2521 178.39	2521 364.65	2521 550.93	2521 737.23

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	57 20 00	57 22 30	57 25 00	57 27 30	57 30 00
132 00 00	2012 999.02	2028 219.16	2043 439.51	2058 660.05	2073 880.80
132 02 30	2012 800.60	2028 020.88	2043 241.36	2058 462.06	2073 682.95
132 05 00	2012 607.19	2027 827.61	2043 048.23	2058 269.07	2073 490.09
132 07 30	2012 418.79	2027 639.35	2042 860.10	2058 081.07	2073 302.22
132 10 00	2012 235.40	2027 456.10	2042 676.98	2057 898.08	2073 119.35
132 12 30	2012 057.03	2027 277.85	2042 498.86	2057 720.08	2072 941.48
132 15 00	2011 883.66	2027 104.61	2042 325.74	2057 547.08	2072 768.60
132 17 30	2011 715.31	2026 936.38	2042 157.63	2057 379.09	2072 600.72
132 20 00	2011 551.97	2026 773.16	2041 994.52	2057 216.09	2072 437.84
132 22 30	2011 393.65	2026 614.95	2041 836.42	2057 058.10	2072 279.95
132 25 00	2011 240.35	2026 461.75	2041 683.33	2056 905.11	2072 127.07
132 27 30	2011 092.05	2026 313.56	2041 535.24	2056 757.13	2071 979.18
132 30 00	2010 948.78	2026 170.39	2041 392.17	2056 614.15	2071 836.30
132 32 30	2010 810.52	2026 032.23	2041 254.10	2056 476.17	2071 698.41
132 35 00	2010 677.28	2025 899.07	2041 121.04	2056 343.20	2071 565.52
132 37 30	2010 549.06	2025 770.94	2040 992.99	2056 215.23	2071 437.64
132 40 00	2010 425.85	2025 647.82	2040 869.95	2056 092.27	2071 314.76
132 42 30	2010 307.67	2025 529.71	2040 751.92	2055 974.32	2071 196.88
132 45 00	2010 194.50	2025 416.63	2040 638.90	2055 861.37	2071 084.01
132 47 30	2010 086.36	2025 308.54	2040 530.90	2055 753.43	2070 976.13
132 50 00	2009 983.23	2025 205.49	2040 427.91	2055 650.51	2070 873.27
132 52 30	2009 885.13	2025 107.45	2040 329.93	2055 552.59	2070 775.40
132 55 00	2009 792.05	2025 014.43	2040 236.97	2055 459.68	2070 682.54
132 57 30	2009 703.99	2024 926.43	2040 149.01	2055 371.78	2070 594.69
133 00 00	2009 620.95	2024 843.44	2040 066.08	2055 288.89	2070 511.85
133 02 30	2009 542.95	2024 765.48	2039 988.16	2055 211.01	2070 434.02
133 05 00	2009 469.96	2024 692.53	2039 915.26	2055 138.15	2070 361.19
133 07 30	2009 402.00	2024 624.61	2039 847.37	2055 070.30	2070 293.37
133 10 00	2009 339.06	2024 561.71	2039 784.50	2055 007.46	2070 230.56
133 12 30	2009 281.15	2024 503.83	2039 726.65	2054 949.63	2070 172.76
133 15 00	2009 228.27	2024 450.97	2039 673.82	2054 896.82	2070 119.97
133 17 30	2009 180.41	2024 403.14	2039 626.00	2054 849.03	2070 072.19
133 20 00	2009 137.58	2024 360.32	2039 583.21	2054 806.25	2070 029.42
133 22 30	2009 099.78	2024 322.54	2039 545.43	2054 768.48	2069 991.66
133 25 00	2009 067.01	2024 289.78	2039 512.68	2054 735.73	2069 958.92
133 27 30	2009 039.27	2024 262.05	2039 484.95	2054 708.00	2069 931.18
133 30 00	2009 016.56	2024 239.34	2039 462.24	2054 685.29	2069 908.47
133 32 30	2008 998.88	2024 221.65	2039 444.55	2054 667.60	2069 890.76
133 35 00	2008 986.23	2024 209.00	2039 431.89	2054 654.92	2069 878.07
133 37 30	2008 978.62	2024 201.37	2039 424.24	2054 647.26	2069 870.40
133 40 00	2008 976.03	2024 198.77	2039 421.63	2054 644.62	2069 867.74
133 42 30	2008 978.48	2024 201.20	2039 424.04	2054 647.01	2069 870.10
133 45 00	2008 985.97	2024 208.66	2039 431.47	2054 654.41	2069 877.48
133 47 30	2008 998.49	2024 221.15	2039 443.93	2054 666.85	2069 889.87
133 50 00	2009 016.04	2024 238.67	2039 461.42	2054 684.29	2069 907.28
133 52 30	2009 038.63	2024 261.22	2039 483.93	2054 706.77	2069 929.71
133 55 00	2009 066.25	2024 288.81	2039 511.47	2054 734.26	2069 957.17
133 57 30	2009 098.91	2024 321.43	2039 544.04	2054 766.78	2069 989.63
134 00 00	2009 136.62	2024 359.08	2039 581.64	2054 804.33	2070 027.12
134 02 30	2009 179.35	2024 401.76	2039 624.27	2054 846.91	2070 069.63
134 05 00	2009 227.13	2024 449.48	2039 671.93	2054 894.50	2070 117.17
134 07 30	2009 279.94	2024 502.23	2039 724.62	2054 947.12	2070 169.72
134 10 00	2009 337.80	2024 560.02	2039 782.34	2055 004.77	2070 227.30
134 12 30	2009 400.70	2024 622.85	2039 845.10	2055 067.46	2070 289.90
134 15 00	2009 468.63	2024 690.71	2039 912.88	2055 135.16	2070 357.53
134 17 30	2009 541.61	2024 763.61	2039 985.70	2055 207.90	2070 430.19
134 20 00	2009 619.63	2024 841.55	2040 063.55	2055 285.66	2070 507.86
134 22 30	2009 702.69	2024 924.52	2040 146.44	2055 368.46	2070 590.56
134 25 00	2009 790.80	2025 012.54	2040 234.36	2055 456.28	2070 678.29
134 27 30	2009 883.95	2025 105.59	2040 327.31	2055 549.14	2070 771.05
134 30 00	2009 982.15	2025 203.69	2040 425.31	2055 647.03	2070 868.83

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.29	-.35	-.40	-.45	-.49	-.53	-.56	-.58	-.60	-.62	-.63	-.63

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	57 20 00	57 22 30	57 25 00	57 27 30	57 30 00
134 30 00	2520 992.14	2521 178.39	2521 364.65	2521 550.93	2521 737.23
134 32 30	2512 760.05	2512 955.62	2513 151.21	2513 346.84	2513 542.47
134 35 00	2504 528.01	2504 732.91	2504 937.85	2505 142.80	2505 347.78
134 37 30	2496 296.03	2496 510.27	2496 724.53	2496 938.83	2497 153.14
134 40 00	2488 064.11	2488 287.68	2488 511.29	2488 734.92	2488 958.58
134 42 30	2479 832.26	2480 065.16	2480 298.11	2480 531.08	2480 764.08
134 45 00	2471 600.47	2471 842.72	2472 084.99	2472 327.31	2472 569.65
134 47 30	2463 368.75	2463 620.33	2463 871.95	2464 123.61	2464 375.29
134 50 00	2455 137.10	2455 398.02	2455 658.98	2455 919.98	2456 181.02
134 52 30	2446 905.53	2447 175.78	2447 446.08	2447 716.43	2447 986.82
134 55 00	2438 674.02	2438 953.62	2439 233.27	2439 512.97	2439 792.70
134 57 30	2430 442.60	2430 731.54	2431 020.53	2431 309.57	2431 598.66
135 00 00	2422 211.26	2422 509.54	2422 807.88	2423 106.27	2423 404.70
135 02 30	2413 980.00	2414 287.63	2414 595.31	2414 903.05	2415 210.84
135 05 00	2405 748.82	2406 065.79	2406 382.83	2406 699.91	2407 017.06
135 07 30	2397 517.73	2397 844.05	2398 170.44	2398 496.88	2398 823.37
135 10 00	2389 286.74	2389 622.41	2389 958.14	2390 293.93	2390 629.77
135 12 30	2381 055.83	2381 400.84	2381 745.93	2382 091.08	2382 436.28
135 15 00	2372 825.01	2373 179.38	2373 533.81	2373 888.32	2374 242.88
135 17 30	2364 594.30	2364 958.02	2365 321.80	2365 685.66	2366 049.58
135 20 00	2356 363.68	2356 736.75	2357 109.89	2357 483.11	2357 856.39
135 22 30	2348 133.17	2348 515.59	2348 898.08	2349 280.66	2349 663.30
135 25 00	2339 902.75	2340 294.53	2340 686.38	2341 078.32	2341 470.32
135 27 30	2331 672.45	2332 073.58	2332 474.79	2332 876.08	2333 277.45
135 30 00	2323 442.25	2323 852.73	2324 263.30	2324 673.96	2325 084.68
135 32 30	2315 212.16	2315 632.01	2316 051.94	2316 471.95	2316 892.05
135 35 00	2306 982.19	2307 411.39	2307 840.68	2308 270.06	2308 699.51
135 37 30	2298 752.33	2299 190.89	2299 629.54	2300 068.28	2300 507.11
135 40 00	2290 522.59	2290 970.51	2291 418.53	2291 866.63	2292 314.83
135 42 30	2282 292.97	2282 750.25	2283 207.63	2283 665.10	2284 122.67
135 45 00	2274 063.46	2274 530.11	2274 996.85	2275 463.70	2275 930.63
135 47 30	2265 834.09	2266 310.10	2266 786.21	2267 262.43	2267 738.74
135 50 00	2257 604.84	2258 090.21	2258 575.70	2259 061.28	2259 546.96
135 52 30	2249 375.72	2249 870.46	2250 365.31	2250 860.27	2251 355.32
135 55 00	2241 146.74	2241 650.84	2242 155.07	2242 659.39	2243 163.82
135 57 30	2232 917.88	2233 431.36	2233 944.95	2234 458.65	2234 972.46
136 00 00	2224 689.17	2225 212.02	2225 734.97	2226 258.05	2226 781.23
136 02 30	2216 460.60	2216 992.81	2217 525.15	2218 057.59	2218 590.16
136 05 00	2208 232.16	2208 773.75	2209 315.46	2209 857.28	2210 399.22
136 07 30	2200 003.87	2200 554.83	2201 105.91	2201 657.12	2202 208.44
136 10 00	2191 775.72	2192 336.06	2192 896.52	2193 457.11	2194 017.81
136 12 30	2183 547.73	2184 117.44	2184 687.28	2185 257.24	2185 827.32
136 15 00	2175 319.88	2175 898.97	2176 478.18	2177 057.53	2177 637.00
136 17 30	2167 092.19	2167 680.66	2168 269.25	2168 857.98	2169 446.83
136 20 00	2158 864.66	2159 462.50	2160 060.48	2160 658.59	2161 256.83
136 22 30	2150 637.28	2151 244.50	2151 851.86	2152 459.35	2153 066.98
136 25 00	2142 410.07	2143 026.67	2143 643.41	2144 260.29	2144 877.30
136 27 30	2134 183.01	2134 808.99	2135 435.12	2136 061.39	2136 687.79
136 30 00	2125 956.12	2126 591.49	2127 227.00	2127 862.65	2128 498.44
136 32 30	2117 729.41	2118 374.16	2119 019.05	2119 664.10	2120 309.28
136 35 00	2109 502.85	2110 156.99	2110 811.28	2111 465.71	2112 120.28
136 37 30	2101 276.47	2101 940.00	2102 603.67	2103 267.49	2103 931.46
136 40 00	2093 050.28	2093 723.18	2094 396.25	2095 069.46	2095 742.83
136 42 30	2084 824.25	2085 506.55	2086 189.00	2086 871.61	2087 554.37
136 45 00	2076 598.41	2077 290.09	2077 981.94	2078 673.94	2079 366.10
136 47 30	2068 372.75	2069 073.83	2069 775.07	2070 476.47	2071 178.02
136 50 00	2060 147.27	2060 857.74	2061 568.37	2062 279.17	2062 990.12
136 52 30	2051 921.98	2052 641.85	2053 361.87	2054 082.07	2054 802.42
136 55 00	2043 696.88	2044 426.14	2045 155.57	2045 885.16	2046 614.91
136 57 30	2035 471.97	2036 210.62	2036 949.45	2037 688.44	2038 427.59
137 00 00	2027 247.26	2027 995.31	2028 743.53	2029 491.93	2030 240.48

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	57 20 00	57 22 30	57 25 00	57 27 30	57 30 00
134 30 00	2009 982.15	2025 203.69	2040 425.31	2055 647.03	2070 868.83
134 32 30	2010 085.38	2025 306.82	2040 528.34	2055 749.95	2070 971.64
134 35 00	2010 193.68	2025 415.00	2040 636.40	2055 857.90	2071 079.48
134 37 30	2010 307.01	2025 528.22	2040 749.51	2055 970.89	2071 192.35
134 40 00	2010 425.39	2025 646.48	2040 867.65	2056 088.92	2071 310.24
134 42 30	2010 548.81	2025 769.79	2040 990.84	2056 211.97	2071 433.17
134 45 00	2010 677.28	2025 898.14	2041 119.06	2056 340.06	2071 561.13
134 47 30	2010 810.81	2026 031.54	2041 252.32	2056 473.19	2071 694.12
134 50 00	2010 949.38	2026 169.98	2041 390.63	2056 611.36	2071 832.15
134 52 30	2011 093.01	2026 313.46	2041 533.96	2056 754.55	2071 975.20
134 55 00	2011 241.68	2026 461.99	2041 682.35	2056 902.80	2072 123.29
134 57 30	2011 395.41	2026 615.57	2041 835.79	2057 056.07	2072 276.42
135 00 00	2011 554.18	2026 774.19	2041 994.25	2057 214.39	2072 434.57
135 02 30	2011 718.01	2026 937.87	2042 157.77	2057 377.75	2072 597.77
135 05 00	2011 886.90	2027 106.59	2042 326.33	2057 546.14	2072 766.00
135 07 30	2012 060.83	2027 280.36	2042 499.94	2057 719.58	2072 939.26
135 10 00	2012 239.82	2027 459.18	2042 678.59	2057 898.06	2073 117.56
135 12 30	2012 423.87	2027 643.05	2042 862.28	2058 081.57	2073 300.90
135 15 00	2012 612.97	2027 831.98	2043 051.03	2058 270.14	2073 489.20
135 17 30	2012 807.13	2028 025.95	2043 244.82	2058 463.74	2073 682.70
135 20 00	2013 006.34	2028 224.99	2043 443.66	2058 662.39	2073 881.15
135 22 30	2013 210.61	2028 429.06	2043 647.54	2058 866.08	2074 084.65
135 25 00	2013 419.94	2028 638.20	2043 856.48	2059 074.82	2074 293.18
135 27 30	2013 634.32	2028 852.38	2044 070.47	2059 288.60	2074 506.76
135 30 00	2013 853.77	2029 071.62	2044 289.50	2059 507.43	2074 725.37
135 32 30	2014 078.27	2029 295.92	2044 513.59	2059 731.30	2074 949.04
135 35 00	2014 307.84	2029 525.27	2044 742.72	2059 960.22	2075 177.74
135 37 30	2014 542.46	2029 759.68	2044 976.92	2060 194.19	2075 411.49
135 40 00	2014 782.15	2029 999.15	2045 216.16	2060 433.21	2075 650.28
135 42 30	2015 026.90	2030 243.68	2045 460.46	2060 677.28	2075 894.11
135 45 00	2015 276.72	2030 493.26	2045 709.81	2060 926.40	2076 143.00
135 47 30	2015 531.59	2030 747.90	2045 964.22	2061 180.56	2076 396.91
135 50 00	2015 791.53	2031 007.60	2046 223.68	2061 439.78	2076 655.89
135 52 30	2016 056.54	2031 272.36	2046 488.19	2061 704.05	2076 919.91
135 55 00	2016 326.60	2031 542.18	2046 757.76	2061 973.37	2077 188.98
135 57 30	2016 601.74	2031 817.07	2047 032.39	2062 247.74	2077 463.09
136 00 00	2016 881.94	2032 097.01	2047 312.08	2062 527.17	2077 742.25
136 02 30	2017 167.20	2032 382.02	2047 596.82	2062 811.65	2078 026.46
136 05 00	2017 457.54	2032 672.09	2047 886.63	2063 101.18	2078 315.72
136 07 30	2017 752.95	2032 967.23	2048 181.49	2063 395.76	2078 610.03
136 10 00	2018 053.42	2033 267.42	2048 481.41	2063 695.41	2078 909.40
136 12 30	2018 358.96	2033 572.68	2048 786.39	2064 000.11	2079 213.81
136 15 00	2018 669.57	2033 883.02	2049 096.44	2064 309.87	2079 523.28
136 17 30	2018 985.26	2034 198.41	2049 411.54	2064 624.68	2079 837.80
136 20 00	2019 306.01	2034 518.87	2049 731.71	2064 944.55	2080 157.37
136 22 30	2019 631.83	2034 844.40	2050 056.94	2065 269.48	2080 481.99
136 25 00	2019 962.73	2035 174.99	2050 387.23	2065 599.47	2080 811.67
136 27 30	2020 298.70	2035 510.66	2050 722.59	2065 934.52	2081 146.41
136 30 00	2020 639.74	2035 851.39	2051 063.01	2066 274.62	2081 486.20
136 32 30	2020 985.86	2036 197.19	2051 408.50	2066 619.79	2081 831.05
136 35 00	2021 337.05	2036 548.07	2051 759.05	2066 970.02	2082 180.95
136 37 30	2021 693.32	2036 904.01	2052 114.67	2067 325.31	2082 535.91
136 40 00	2022 054.66	2037 265.03	2052 475.36	2067 685.67	2082 895.93
136 42 30	2022 421.08	2037 631.12	2052 841.11	2068 051.08	2083 261.01
136 45 00	2022 792.58	2038 002.28	2053 211.94	2068 421.56	2083 631.15
136 47 30	2023 169.15	2038 378.51	2053 587.82	2068 797.11	2084 006.34
136 50 00	2023 550.81	2038 759.82	2053 968.79	2069 177.72	2084 386.60
136 52 30	2023 937.54	2039 146.20	2054 354.82	2069 563.39	2084 771.92
136 55 00	2024 329.35	2039 537.66	2054 745.92	2069 954.13	2085 162.30
136 57 30	2024 726.24	2039 934.19	2055 142.09	2070 349.94	2085 557.74
137 00 00	2025 128.21	2040 335.80	2055 543.33	2070 750.82	2085 958.25

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.29	-.35	-.40	-.45	-.49	-.53	-.56	-.58	-.60	-.62	-.63	-.63

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	57 30 00	57 32 30	57 35 00	57 37 30	57 40 00
132 00 00	3013 448.81	3013 076.56	3012 704.16	3012 331.57	3011 958.81
132 02 30	3005 254.50	3004 891.55	3004 528.42	3004 165.12	3003 801.65
132 05 00	2997 060.14	2996 706.46	2996 352.61	2995 998.60	2995 644.42
132 07 30	2988 865.71	2988 521.30	2988 176.74	2987 832.02	2987 487.12
132 10 00	2980 671.20	2980 336.08	2980 000.80	2979 665.37	2979 329.76
132 12 30	2972 476.62	2972 150.79	2971 824.79	2971 498.64	2971 172.33
132 15 00	2964 281.99	2963 965.44	2963 648.73	2963 331.87	2963 014.85
132 17 30	2956 087.29	2955 780.02	2955 472.60	2955 165.03	2954 857.30
132 20 00	2947 892.53	2947 594.55	2947 296.42	2946 998.13	2946 699.70
132 22 30	2939 697.72	2939 409.02	2939 120.17	2938 831.19	2938 542.05
132 25 00	2931 502.84	2931 223.43	2930 943.88	2930 664.19	2930 384.35
132 27 30	2923 307.92	2923 037.79	2922 767.53	2922 497.13	2922 226.59
132 30 00	2915 112.94	2914 852.10	2914 591.14	2914 330.04	2914 068.79
132 32 30	2906 917.91	2906 666.37	2906 414.70	2906 162.89	2905 910.94
132 35 00	2898 722.84	2898 480.58	2898 238.20	2897 995.69	2897 753.05
132 37 30	2890 527.72	2890 294.76	2890 061.68	2889 828.47	2889 595.12
132 40 00	2882 332.56	2882 108.89	2881 885.10	2881 661.20	2881 437.15
132 42 30	2874 137.36	2873 922.98	2873 708.50	2873 493.88	2873 279.15
132 45 00	2865 942.12	2865 737.04	2865 531.85	2865 326.54	2865 121.11
132 47 30	2857 746.84	2857 551.06	2857 355.17	2857 159.16	2856 963.04
132 50 00	2849 551.53	2849 365.05	2849 178.46	2848 991.76	2848 804.94
132 52 30	2841 356.19	2841 179.01	2841 001.73	2840 824.32	2840 646.82
132 55 00	2833 160.82	2832 992.94	2832 824.95	2832 656.86	2832 488.66
132 57 30	2824 965.43	2824 806.85	2824 648.17	2824 489.38	2824 330.49
133 00 00	2816 770.00	2816 620.73	2816 471.35	2816 321.87	2816 172.29
133 02 30	2808 574.56	2808 434.58	2808 294.51	2808 154.34	2808 014.08
133 05 00	2800 379.09	2800 248.42	2800 117.66	2799 986.81	2799 855.84
133 07 30	2792 183.61	2792 062.24	2791 940.79	2791 819.24	2791 697.60
133 10 00	2783 988.11	2783 876.05	2783 763.90	2783 651.67	2783 539.34
133 12 30	2775 792.60	2775 689.85	2775 587.01	2775 484.09	2775 381.08
133 15 00	2767 597.07	2767 503.63	2767 410.11	2767 316.50	2767 222.81
133 17 30	2759 401.54	2759 317.41	2759 233.20	2759 148.90	2759 064.53
133 20 00	2751 206.00	2751 131.18	2751 056.28	2750 981.31	2750 906.25
133 22 30	2743 010.46	2742 944.94	2742 879.36	2742 813.70	2742 747.97
133 25 00	2734 814.91	2734 758.71	2734 702.44	2734 646.11	2734 589.69
133 27 30	2726 619.37	2726 572.48	2726 525.53	2726 478.51	2726 431.42
133 30 00	2718 423.82	2718 386.25	2718 348.61	2718 310.91	2718 273.15
133 32 30	2710 228.28	2710 200.02	2710 171.71	2710 143.33	2710 114.88
133 35 00	2702 032.75	2702 013.81	2701 994.81	2701 975.76	2701 956.64
133 37 30	2693 837.21	2693 827.59	2693 817.92	2693 808.19	2693 798.40
133 40 00	2685 641.70	2685 641.40	2685 641.05	2685 640.64	2685 640.18
133 42 30	2677 446.20	2677 455.22	2677 464.19	2677 473.11	2677 481.98
133 45 00	2669 250.71	2669 269.05	2669 287.35	2669 305.59	2669 323.79
133 47 30	2661 055.25	2661 082.91	2661 110.52	2661 138.10	2661 165.63
133 50 00	2652 859.80	2652 896.78	2652 933.73	2652 970.64	2653 007.49
133 52 30	2644 664.37	2644 710.68	2644 756.96	2644 803.19	2644 849.38
133 55 00	2636 468.97	2636 524.61	2636 580.21	2636 635.77	2636 691.30
133 57 30	2628 273.60	2628 338.56	2628 403.50	2628 468.39	2628 533.25
134 00 00	2620 078.25	2620 152.55	2620 226.80	2620 301.04	2620 375.23
134 02 30	2611 882.94	2611 966.56	2612 050.15	2612 133.71	2612 217.25
134 05 00	2603 687.66	2603 780.61	2603 873.54	2603 966.44	2604 059.31
134 07 30	2595 492.42	2595 594.70	2595 696.96	2595 799.19	2595 901.41
134 10 00	2587 297.21	2587 408.82	2587 520.42	2587 631.99	2587 743.54
134 12 30	2579 102.05	2579 222.99	2579 343.93	2579 464.84	2579 585.73
134 15 00	2570 906.93	2571 037.20	2571 167.47	2571 297.72	2571 427.96
134 17 30	2562 711.85	2562 851.47	2562 991.07	2563 130.66	2563 270.24
134 20 00	2554 516.82	2554 665.77	2554 814.72	2554 963.66	2555 112.58
134 22 30	2546 321.84	2546 480.13	2546 638.41	2546 796.69	2546 954.96
134 25 00	2538 126.92	2538 294.54	2538 462.16	2538 629.79	2538 797.40
134 27 30	2529 932.04	2530 109.01	2530 285.98	2530 462.95	2530 639.91
134 30 00	2521 737.23	2521 923.53	2522 109.84	2522 296.16	2522 482.47

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	57 30 00	57 32 30	57 35 00	57 37 30	57 40 00
132 00 00	2073 880.80	2089 101.78	2104 322.97	2119 544.38	2134 766.01
132 02 30	2073 682.95	2088 904.07	2104 125.39	2119 346.94	2134 568.69
132 05 00	2073 490.09	2088 711.34	2103 932.80	2119 154.47	2134 376.35
132 07 30	2073 302.22	2088 523.61	2103 745.19	2118 966.99	2134 188.99
132 10 00	2073 119.35	2088 340.86	2103 562.56	2118 784.48	2134 006.61
132 12 30	2072 941.48	2088 163.10	2103 384.93	2118 606.97	2133 829.21
132 15 00	2072 768.60	2087 990.34	2103 212.28	2118 434.44	2133 656.79
132 17 30	2072 600.72	2087 822.57	2103 044.63	2118 266.89	2133 489.35
132 20 00	2072 437.84	2087 659.80	2102 881.96	2118 104.33	2133 326.89
132 22 30	2072 279.95	2087 502.02	2102 724.29	2117 946.75	2133 169.42
132 25 00	2072 127.07	2087 349.23	2102 571.60	2117 794.16	2133 016.92
132 27 30	2071 979.18	2087 201.45	2102 423.91	2117 646.56	2132 869.41
132 30 00	2071 836.30	2087 058.65	2102 281.20	2117 503.94	2132 726.88
132 32 30	2071 698.41	2086 920.85	2102 143.49	2117 366.32	2132 589.34
132 35 00	2071 565.52	2086 788.05	2102 010.77	2117 233.68	2132 456.78
132 37 30	2071 437.64	2086 660.25	2101 883.04	2117 106.02	2132 329.20
132 40 00	2071 314.76	2086 537.44	2101 760.31	2116 983.37	2132 206.61
132 42 30	2071 196.88	2086 419.64	2101 642.57	2116 865.70	2132 089.01
132 45 00	2071 084.01	2086 306.83	2101 529.83	2116 753.02	2131 976.40
132 47 30	2070 976.13	2086 199.02	2101 422.09	2116 645.34	2131 868.77
132 50 00	2070 873.27	2086 096.21	2101 319.34	2116 542.65	2131 766.13
132 52 30	2070 775.40	2085 998.40	2101 221.58	2116 444.95	2131 668.48
132 55 00	2070 682.54	2085 905.60	2101 128.83	2116 352.24	2131 575.82
132 57 30	2070 594.69	2085 817.80	2101 041.07	2116 264.52	2131 488.14
133 00 00	2070 511.85	2085 735.00	2100 958.31	2116 181.80	2131 405.46
133 02 30	2070 434.02	2085 657.20	2100 880.55	2116 104.08	2131 327.77
133 05 00	2070 361.19	2085 584.40	2100 807.79	2116 031.35	2131 255.07
133 07 30	2070 293.37	2085 516.62	2100 740.03	2115 963.61	2131 187.36
133 10 00	2070 230.56	2085 453.83	2100 677.28	2115 900.88	2131 124.64
133 12 30	2070 172.76	2085 396.05	2100 619.51	2115 843.13	2131 066.92
133 15 00	2070 119.97	2085 343.28	2100 566.75	2115 790.39	2131 014.19
133 17 30	2070 072.19	2085 295.52	2100 519.00	2115 742.65	2130 966.45
133 20 00	2070 029.42	2085 252.76	2100 476.25	2115 699.91	2130 923.72
133 22 30	2069 991.66	2085 215.01	2100 438.51	2115 662.16	2130 885.97
133 25 00	2069 958.92	2085 182.26	2100 405.76	2115 629.41	2130 853.22
133 27 30	2069 931.18	2085 154.53	2100 378.02	2115 601.67	2130 825.46
133 30 00	2069 908.47	2085 131.80	2100 355.29	2115 578.93	2130 802.70
133 32 30	2069 890.76	2085 114.09	2100 337.56	2115 561.18	2130 784.94
133 35 00	2069 878.07	2085 101.38	2100 324.84	2115 548.44	2130 772.18
133 37 30	2069 870.40	2085 093.69	2100 317.12	2115 540.70	2130 764.42
133 40 00	2069 867.74	2085 091.01	2100 314.42	2115 537.97	2130 761.66
133 42 30	2069 870.10	2085 093.34	2100 316.72	2115 540.24	2130 763.89
133 45 00	2069 877.48	2085 100.68	2100 324.02	2115 547.51	2130 771.13
133 47 30	2069 889.87	2085 113.04	2100 336.35	2115 559.79	2130 783.36
133 50 00	2069 907.28	2085 130.41	2100 353.67	2115 577.07	2130 800.60
133 52 30	2069 929.71	2085 152.80	2100 376.01	2115 599.36	2130 822.83
133 55 00	2069 957.17	2085 180.20	2100 403.36	2115 626.66	2130 850.08
133 57 30	2069 989.63	2085 212.62	2100 435.73	2115 658.96	2130 882.33
134 00 00	2070 027.12	2085 250.05	2100 473.10	2115 696.27	2130 919.57
134 02 30	2070 069.63	2085 292.50	2100 515.49	2115 738.60	2130 961.83
134 05 00	2070 117.17	2085 339.97	2100 562.89	2115 785.93	2131 009.09
134 07 30	2070 169.72	2085 392.45	2100 615.30	2115 838.27	2131 061.34
134 10 00	2070 227.30	2085 449.96	2100 672.73	2115 895.62	2131 118.62
134 12 30	2070 289.90	2085 512.48	2100 735.17	2115 957.97	2131 180.89
134 15 00	2070 357.53	2085 580.03	2100 802.63	2116 025.35	2131 248.17
134 17 30	2070 430.19	2085 652.59	2100 875.10	2116 097.73	2131 320.47
134 20 00	2070 507.86	2085 730.17	2100 952.60	2116 175.13	2131 397.76
134 22 30	2070 590.56	2085 812.78	2101 035.10	2116 257.53	2131 480.07
134 25 00	2070 678.29	2085 900.41	2101 122.63	2116 344.96	2131 567.39
134 27 30	2070 771.05	2085 993.06	2101 215.17	2116 437.39	2131 659.71
134 30 00	2070 868.83	2086 090.73	2101 312.73	2116 534.84	2131 757.05

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.29	-.35	-.40	-.44	-.48	-.52	-.55	-.58	-.60	-.61	-.62	-.62

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	57 30 00	57 32 30	57 35 00	57 37 30	57 40 00
134 30 00	2521 737.23	2521 923.53	2522 109.84	2522 296.16	2522 482.47
134 32 30	2513 542.47	2513 738.12	2513 933.77	2514 129.43	2514 325.10
134 35 00	2505 347.78	2505 552.77	2505 757.77	2505 962.78	2506 167.79
134 37 30	2497 153.14	2497 367.48	2497 581.82	2497 796.18	2498 010.55
134 40 00	2488 958.58	2489 182.26	2489 405.95	2489 629.66	2489 853.38
134 42 30	2480 764.08	2480 997.11	2481 230.15	2481 463.21	2481 696.28
134 45 00	2472 569.65	2472 812.02	2473 054.42	2473 296.83	2473 539.26
134 47 30	2464 375.29	2464 627.02	2464 878.76	2465 130.53	2465 382.31
134 50 00	2456 181.02	2456 442.09	2456 703.18	2456 964.31	2457 225.45
134 52 30	2447 986.82	2448 257.24	2448 527.69	2448 798.16	2449 068.66
134 55 00	2439 792.70	2440 072.47	2440 352.27	2440 632.11	2440 911.97
134 57 30	2431 598.66	2431 887.78	2432 176.94	2432 466.13	2432 755.35
135 00 00	2423 404.70	2423 703.18	2424 001.69	2424 300.24	2424 598.82
135 02 30	2415 210.84	2415 518.67	2415 826.54	2416 134.45	2416 442.39
135 05 00	2407 017.06	2407 334.24	2407 651.47	2407 968.74	2408 286.05
135 07 30	2398 823.37	2399 149.91	2399 476.50	2399 803.13	2400 129.80
135 10 00	2390 629.77	2390 965.68	2391 301.63	2391 637.63	2391 973.67
135 12 30	2382 436.28	2382 781.54	2383 126.85	2383 472.21	2383 817.61
135 15 00	2374 242.88	2374 597.50	2374 952.17	2375 306.90	2375 661.67
135 17 30	2366 049.58	2366 413.57	2366 777.60	2367 141.70	2367 505.84
135 20 00	2357 856.39	2358 229.73	2358 603.13	2358 976.59	2359 350.10
135 22 30	2349 663.30	2350 046.01	2350 428.77	2350 811.60	2351 194.49
135 25 00	2341 470.32	2341 862.39	2342 254.53	2342 646.72	2343 038.98
135 27 30	2333 277.45	2333 678.88	2334 080.38	2334 481.96	2334 883.58
135 30 00	2325 084.68	2325 495.49	2325 906.36	2326 317.30	2326 728.31
135 32 30	2316 892.05	2317 312.22	2317 732.46	2318 152.77	2318 573.15
135 35 00	2308 699.51	2309 129.06	2309 558.67	2309 988.36	2310 418.11
135 37 30	2300 507.11	2300 946.02	2301 385.01	2301 824.07	2302 263.20
135 40 00	2292 314.83	2292 763.11	2293 211.47	2293 659.91	2294 108.42
135 42 30	2284 122.67	2284 580.32	2285 038.05	2285 495.87	2285 953.76
135 45 00	2275 930.63	2276 397.66	2276 864.77	2277 331.96	2277 799.23
135 47 30	2267 738.74	2268 215.13	2268 691.62	2269 168.19	2269 644.84
135 50 00	2259 546.96	2260 032.73	2260 518.60	2261 004.55	2261 490.59
135 52 30	2251 355.32	2251 850.47	2252 345.72	2252 841.05	2253 336.47
135 55 00	2243 163.82	2243 668.35	2244 172.97	2244 677.69	2245 182.49
135 57 30	2234 972.46	2235 486.36	2236 000.37	2236 514.47	2237 028.66
136 00 00	2226 781.23	2227 304.52	2227 827.91	2228 351.39	2228 874.97
136 02 30	2218 590.16	2219 122.83	2219 655.59	2220 188.47	2220 721.43
136 05 00	2210 399.22	2210 941.27	2211 483.43	2212 025.68	2212 568.04
136 07 30	2202 208.44	2202 759.87	2203 311.41	2203 863.05	2204 414.80
136 10 00	2194 017.81	2194 578.62	2195 139.55	2195 700.58	2196 261.72
136 12 30	2185 827.32	2186 397.52	2186 967.84	2187 538.26	2188 108.79
136 15 00	2177 637.00	2178 216.58	2178 796.29	2179 376.10	2179 956.02
136 17 30	2169 446.83	2170 035.80	2170 624.90	2171 214.11	2171 803.42
136 20 00	2161 256.83	2161 855.19	2162 453.67	2163 052.27	2163 650.98
136 22 30	2153 066.98	2153 674.73	2154 282.60	2154 890.60	2155 498.71
136 25 00	2144 877.30	2145 494.45	2146 111.71	2146 729.10	2147 346.60
136 27 30	2136 687.79	2137 314.32	2137 940.98	2138 567.77	2139 194.68
136 30 00	2128 498.44	2129 134.37	2129 770.43	2130 406.61	2131 042.91
136 32 30	2120 309.28	2120 954.60	2121 600.05	2122 245.63	2122 891.34
136 35 00	2112 120.28	2112 775.00	2113 429.85	2114 084.83	2114 739.94
136 37 30	2103 931.46	2104 595.57	2105 259.82	2105 924.20	2106 588.71
136 40 00	2095 742.83	2096 416.34	2097 089.98	2097 763.77	2098 437.68
136 42 30	2087 554.37	2088 237.28	2088 920.32	2089 603.51	2090 286.83
136 45 00	2079 366.10	2080 058.40	2080 750.85	2081 443.44	2082 136.17
136 47 30	2071 178.02	2071 879.72	2072 581.57	2073 283.57	2073 985.70
136 50 00	2062 990.12	2063 701.23	2064 412.48	2065 123.88	2065 835.43
136 52 30	2054 802.42	2055 522.93	2056 243.59	2056 964.40	2057 685.35
136 55 00	2046 614.91	2047 344.82	2048 074.89	2048 805.10	2049 535.46
136 57 30	2038 427.59	2039 166.91	2039 906.39	2040 646.01	2041 385.78
137 00 00	2030 240.48	2030 989.21	2031 738.09	2032 487.12	2033 236.31

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	57 30 00	57 32 30	57 35 00	57 37 30	57 40 00
134 30 00	2070 868.83	2086 090.73	2101 312.73	2116 534.84	2131 757.05
134 32 30	2070 971.64	2086 193.43	2101 415.32	2116 637.31	2131 859.39
134 35 00	2071 079.48	2086 301.15	2101 522.92	2116 744.79	2131 966.75
134 37 30	2071 192.35	2086 413.90	2101 635.54	2116 857.29	2132 079.12
134 40 00	2071 310.24	2086 531.67	2101 753.19	2116 974.80	2132 196.50
134 42 30	2071 433.17	2086 654.47	2101 875.86	2117 097.33	2132 318.90
134 45 00	2071 561.13	2086 782.29	2102 003.54	2117 224.88	2132 446.31
134 47 30	2071 694.12	2086 915.15	2102 136.26	2117 357.45	2132 578.73
134 50 00	2071 832.15	2087 053.03	2102 273.99	2117 495.04	2132 716.17
134 52 30	2071 975.20	2087 195.94	2102 416.75	2117 637.65	2132 858.62
134 55 00	2072 123.29	2087 343.88	2102 564.54	2117 785.28	2133 006.09
134 57 30	2072 276.42	2087 496.84	2102 717.35	2117 937.93	2133 158.58
135 00 00	2072 434.57	2087 654.84	2102 875.18	2118 095.60	2133 316.08
135 02 30	2072 597.77	2087 817.87	2103 038.04	2118 258.29	2133 478.61
135 05 00	2072 766.00	2087 985.93	2103 205.93	2118 426.01	2133 546.15
135 07 30	2072 939.26	2088 159.03	2103 378.85	2118 598.75	2133 818.70
135 10 00	2073 117.56	2088 337.15	2103 556.79	2118 776.51	2133 996.28
135 12 30	2073 300.90	2088 520.31	2103 739.77	2118 959.30	2134 178.88
135 15 00	2073 489.28	2088 708.49	2103 927.77	2119 147.11	2134 366.50
135 17 30	2073 682.70	2088 901.72	2104 120.80	2119 339.94	2134 559.14
135 20 00	2073 881.15	2089 099.98	2104 318.86	2119 537.81	2134 756.81
135 22 30	2074 084.65	2089 303.28	2104 521.96	2119 740.70	2134 959.49
135 25 00	2074 293.18	2089 511.61	2104 730.09	2119 948.61	2135 167.19
135 27 30	2074 506.76	2089 724.98	2104 943.24	2120 161.56	2135 379.93
135 30 00	2074 725.37	2089 943.38	2105 161.43	2120 379.53	2135 597.68
135 32 30	2074 949.04	2090 166.83	2105 384.65	2120 602.54	2135 820.46
135 35 00	2075 177.74	2090 395.31	2105 612.91	2120 830.57	2136 048.27
135 37 30	2075 411.49	2090 628.83	2105 846.20	2121 063.63	2136 281.09
135 40 00	2075 650.28	2090 867.39	2106 084.53	2121 301.73	2136 518.95
135 42 30	2075 894.11	2091 110.99	2106 327.90	2121 544.85	2136 761.83
135 45 00	2076 143.00	2091 359.63	2106 576.30	2121 793.00	2137 009.74
135 47 30	2076 396.91	2091 613.31	2106 829.73	2122 046.19	2137 262.68
135 50 00	2076 655.89	2091 872.03	2107 088.21	2122 304.42	2137 520.65
135 52 30	2076 919.91	2092 135.80	2107 351.72	2122 567.67	2137 783.64
135 55 00	2077 188.98	2092 404.61	2107 620.27	2122 835.95	2138 051.67
135 57 30	2077 463.09	2092 678.47	2107 893.86	2123 109.28	2138 324.73
136 00 00	2077 742.25	2092 957.36	2108 172.49	2123 387.64	2138 602.81
136 02 30	2078 026.46	2093 241.30	2108 456.16	2123 671.03	2138 885.93
136 05 00	2078 315.72	2093 530.29	2108 744.87	2123 959.47	2139 174.08
136 07 30	2078 610.03	2093 824.32	2109 038.62	2124 252.94	2139 467.26
136 10 00	2078 909.40	2094 123.40	2109 337.41	2124 551.44	2139 765.47
136 12 30	2079 213.81	2094 427.53	2109 641.25	2124 854.98	2140 068.73
136 15 00	2079 523.28	2094 736.70	2109 950.13	2125 163.56	2140 377.01
136 17 30	2079 837.80	2095 050.92	2110 264.05	2125 477.19	2140 690.33
136 20 00	2080 157.37	2095 370.19	2110 583.02	2125 795.85	2141 008.68
136 22 30	2080 481.99	2095 694.52	2110 907.03	2126 119.55	2141 332.07
136 25 00	2080 811.67	2096 023.89	2111 236.09	2126 448.30	2141 660.49
136 27 30	2081 146.41	2096 358.31	2111 570.20	2126 782.09	2141 993.96
136 30 00	2081 486.20	2096 697.78	2111 909.35	2127 120.91	2142 332.46
136 32 30	2081 831.05	2097 042.30	2112 253.54	2127 464.78	2142 676.00
136 35 00	2082 180.95	2097 391.88	2112 602.79	2127 813.69	2143 024.58
136 37 30	2082 535.91	2097 746.51	2112 957.08	2128 167.65	2143 378.19
136 40 00	2082 895.93	2098 106.19	2113 316.43	2128 526.65	2143 736.85
136 42 30	2083 261.01	2098 470.92	2113 680.82	2128 890.70	2144 100.54
136 45 00	2083 631.15	2098 840.71	2114 050.26	2129 259.78	2144 469.28
136 47 30	2084 006.34	2099 215.56	2114 424.75	2129 633.92	2144 843.07
136 50 00	2084 386.60	2099 595.47	2114 804.30	2130 013.11	2145 221.89
136 52 30	2084 771.92	2099 980.43	2115 188.90	2130 397.34	2145 605.75
136 55 00	2085 162.30	2100 370.44	2115 578.54	2130 786.62	2145 994.66
136 57 30	2085 557.74	2100 765.51	2115 973.25	2131 180.95	2146 388.61
137 00 00	2085 958.25	2101 165.64	2116 373.00	2131 580.32	2146 787.61

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.29	-.35	-.40	-.45	-.49	-.53	-.56	-.58	-.60	-.62	-.63	-.63

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	57 40 00	57 42 30	57 45 00	57 47 30	57 50 00
132 00 00	3011 958.81	3011 585.87	3011 212.74	3010 839.43	3010 465.92
132 02 30	3003 801.65	3003 438.00	3003 074.16	3002 710.15	3002 345.93
132 05 00	2995 644.42	2995 290.05	2994 935.52	2994 580.80	2994 225.88
132 07 30	2987 487.12	2987 142.05	2986 796.82	2986 451.39	2986 105.78
132 10 00	2979 329.76	2978 993.99	2978 658.04	2978 321.91	2977 985.61
132 12 30	2971 172.33	2970 845.85	2970 519.20	2970 192.38	2969 865.38
132 15 00	2963 014.85	2962 697.66	2962 380.32	2962 062.80	2961 745.09
132 17 30	2954 857.30	2954 549.42	2954 241.37	2953 933.15	2953 624.76
132 20 00	2946 699.70	2946 401.11	2946 102.36	2945 803.45	2945 504.36
132 22 30	2938 542.05	2938 252.76	2937 963.31	2937 673.70	2937 383.93
132 25 00	2930 384.35	2930 104.36	2929 824.21	2929 543.90	2929 263.44
132 27 30	2922 226.59	2921 955.89	2921 685.06	2921 414.05	2921 142.90
132 30 00	2914 068.79	2913 807.40	2913 545.87	2913 284.17	2913 022.32
132 32 30	2905 910.94	2905 658.85	2905 406.62	2905 154.24	2904 901.70
132 35 00	2897 753.05	2897 510.27	2897 267.34	2897 024.27	2896 781.05
132 37 30	2889 595.12	2889 361.65	2889 128.03	2888 894.26	2888 660.36
132 40 00	2881 437.15	2881 212.98	2880 988.67	2880 764.22	2880 539.63
132 42 30	2873 279.15	2873 064.28	2872 849.28	2872 634.15	2872 418.87
132 45 00	2865 121.11	2864 915.55	2864 709.86	2864 504.04	2864 298.08
132 47 30	2856 963.04	2856 766.79	2856 570.41	2856 373.90	2856 177.26
132 50 00	2848 804.94	2848 618.00	2848 430.93	2848 243.74	2848 056.42
132 52 30	2840 646.82	2840 469.19	2840 291.43	2840 113.56	2839 935.56
132 55 00	2832 488.66	2832 320.34	2832 151.91	2831 983.36	2831 814.66
132 57 30	2824 330.49	2824 171.48	2824 012.36	2823 853.13	2823 693.77
133 00 00	2816 172.29	2816 022.60	2815 872.80	2815 722.88	2815 572.84
133 02 30	2808 014.08	2807 873.70	2807 733.22	2807 592.62	2807 451.90
133 05 00	2799 855.84	2799 724.79	2799 593.62	2799 462.35	2799 330.96
133 07 30	2791 697.60	2791 575.86	2791 454.01	2791 332.06	2791 210.00
133 10 00	2783 539.34	2783 426.92	2783 314.40	2783 201.77	2783 089.03
133 12 30	2775 381.08	2775 277.97	2775 174.78	2775 071.47	2774 968.06
133 15 00	2767 222.81	2767 129.02	2767 035.15	2766 941.17	2766 847.08
133 17 30	2759 064.53	2758 980.07	2758 895.51	2758 810.86	2758 726.11
133 20 00	2750 906.25	2750 831.11	2750 755.88	2750 680.56	2750 605.14
133 22 30	2742 747.97	2742 682.15	2742 616.25	2742 550.25	2742 484.17
133 25 00	2734 589.69	2734 533.20	2734 476.62	2734 419.95	2734 363.21
133 27 30	2726 431.42	2726 384.25	2726 337.00	2726 289.67	2726 242.25
133 30 00	2718 273.15	2718 235.30	2718 197.38	2718 159.39	2718 121.30
133 32 30	2710 114.88	2710 086.37	2710 057.78	2710 029.12	2710 000.37
133 35 00	2701 956.64	2701 937.45	2701 918.20	2701 898.86	2701 879.46
133 37 30	2693 798.40	2693 788.55	2693 778.62	2693 768.62	2693 758.55
133 40 00	2685 640.18	2685 639.65	2685 639.06	2685 638.40	2685 637.67
133 42 30	2677 481.98	2677 490.78	2677 499.52	2677 508.20	2677 516.81
133 45 00	2669 323.79	2669 341.93	2669 360.01	2669 378.02	2669 395.97
133 47 30	2661 165.63	2661 193.10	2661 220.52	2661 247.87	2661 275.16
133 50 00	2653 007.49	2653 044.30	2653 081.06	2653 117.75	2653 154.38
133 52 30	2644 849.38	2644 895.53	2644 941.62	2644 987.65	2645 033.63
133 55 00	2636 691.30	2636 746.78	2636 802.21	2636 857.59	2636 912.91
133 57 30	2628 533.25	2628 598.07	2628 662.84	2628 727.57	2628 792.24
134 00 00	2620 375.23	2620 449.39	2620 523.51	2620 597.57	2620 671.59
134 02 30	2612 217.25	2612 300.75	2612 384.20	2612 467.62	2612 550.98
134 05 00	2604 059.31	2604 152.15	2604 244.95	2604 337.71	2604 430.43
134 07 30	2595 901.41	2596 003.58	2596 105.73	2596 207.84	2596 309.91
134 10 00	2587 743.54	2587 855.07	2587 966.56	2588 078.02	2588 189.43
134 12 30	2579 585.73	2579 706.60	2579 827.44	2579 948.24	2580 069.01
134 15 00	2571 427.96	2571 558.17	2571 688.36	2571 818.52	2571 948.64
134 17 30	2563 270.24	2563 409.80	2563 549.34	2563 688.85	2563 828.32
134 20 00	2555 112.58	2555 261.48	2555 410.37	2555 559.23	2555 708.06
134 22 30	2546 954.96	2547 113.22	2547 271.45	2547 429.67	2547 587.86
134 25 00	2538 797.40	2538 965.01	2539 132.60	2539 300.17	2539 467.72
134 27 30	2530 639.91	2530 816.86	2530 993.81	2531 170.73	2531 347.64
134 30 00	2522 482.47	2522 668.77	2522 855.07	2523 041.36	2523 227.62

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	57 40 00	57 42 30	57 45 00	57 47 30	57 50 00
132 00 00	2134 766.01	2149 987.86	2165 209.93	2180 432.24	2195 654.78
132 02 30	2134 568.69	2149 790.67	2165 012.88	2180 235.30	2195 457.97
132 05 00	2134 376.35	2149 598.46	2164 820.79	2180 043.34	2195 266.13
132 07 30	2134 188.99	2149 411.23	2164 633.67	2179 856.34	2195 079.25
132 10 00	2134 006.61	2149 228.96	2164 451.52	2179 674.31	2194 897.33
132 12 30	2133 829.21	2149 051.68	2164 274.35	2179 497.24	2194 720.37
132 15 00	2133 656.79	2148 879.36	2164 102.14	2179 325.14	2194 548.38
132 17 30	2133 489.35	2148 712.02	2163 934.91	2179 158.02	2194 381.35
132 20 00	2133 326.89	2148 549.67	2163 772.66	2178 995.86	2194 219.29
132 22 30	2133 169.42	2148 392.29	2163 615.37	2178 838.67	2194 062.19
132 25 00	2133 016.92	2148 239.89	2163 463.06	2178 686.45	2193 910.06
132 27 30	2132 869.41	2148 092.47	2163 315.73	2178 539.20	2193 762.89
132 30 00	2132 726.88	2147 950.02	2163 173.37	2178 396.92	2193 620.69
132 32 30	2132 589.34	2147 812.56	2163 035.98	2178 259.62	2193 483.46
132 35 00	2132 456.78	2147 680.08	2162 903.58	2178 127.28	2193 351.20
132 37 30	2132 329.20	2147 552.58	2162 776.15	2177 999.92	2193 223.90
132 40 00	2132 206.61	2147 430.06	2162 653.69	2177 877.53	2193 101.58
132 42 30	2132 089.01	2147 312.52	2162 536.22	2177 760.12	2192 984.23
132 45 00	2131 976.40	2147 199.97	2162 423.73	2177 647.68	2192 871.84
132 47 30	2131 868.77	2147 092.40	2162 316.20	2177 540.21	2192 764.43
132 50 00	2131 766.13	2146 989.81	2162 213.67	2177 437.73	2192 661.98
132 52 30	2131 668.48	2146 892.20	2162 116.11	2177 340.21	2192 564.51
132 55 00	2131 575.82	2146 799.59	2162 023.53	2177 247.67	2192 472.02
132 57 30	2131 488.14	2146 711.95	2161 935.94	2177 160.11	2192 384.49
133 00 00	2131 405.46	2146 629.30	2161 853.32	2177 077.53	2192 301.94
133 02 30	2131 327.77	2146 551.64	2161 775.69	2176 999.93	2192 224.36
133 05 00	2131 255.07	2146 478.97	2161 703.05	2176 927.30	2192 151.75
133 07 30	2131 187.36	2146 411.29	2161 635.38	2176 859.66	2192 084.13
133 10 00	2131 124.64	2146 348.59	2161 572.70	2176 796.99	2192 021.48
133 12 30	2131 066.92	2146 290.87	2161 515.00	2176 739.30	2191 963.80
133 15 00	2131 014.19	2146 238.16	2161 462.29	2176 686.60	2191 911.10
133 17 30	2130 966.45	2146 190.43	2161 414.56	2176 638.88	2191 863.38
133 20 00	2130 923.72	2146 147.69	2161 371.83	2176 596.14	2191 820.63
133 22 30	2130 885.97	2146 109.94	2161 334.08	2176 558.38	2191 782.86
133 25 00	2130 853.22	2146 077.18	2161 301.31	2176 525.60	2191 750.08
133 27 30	2130 825.46	2146 049.42	2161 273.54	2176 497.81	2191 722.27
133 30 00	2130 802.70	2146 026.65	2161 250.74	2176 475.00	2191 699.44
133 32 30	2130 784.94	2146 008.87	2161 232.94	2176 457.18	2191 681.59
133 35 00	2130 772.18	2145 996.09	2161 220.13	2176 444.34	2191 668.73
133 37 30	2130 764.42	2145 988.29	2161 212.31	2176 436.49	2191 660.84
133 40 00	2130 761.66	2145 985.50	2161 209.49	2176 433.63	2191 657.94
133 42 30	2130 763.89	2145 987.70	2161 211.65	2176 435.75	2191 660.02
133 45 00	2130 771.13	2145 994.89	2161 218.80	2176 442.86	2191 667.08
133 47 30	2130 783.36	2146 007.08	2161 230.94	2176 454.95	2191 679.13
133 50 00	2130 800.60	2146 024.27	2161 248.08	2176 472.04	2191 696.16
133 52 30	2130 822.83	2146 046.46	2161 270.21	2176 494.11	2191 718.17
133 55 00	2130 850.08	2146 073.64	2161 297.34	2176 521.18	2191 745.18
133 57 30	2130 882.33	2146 105.83	2161 329.46	2176 553.24	2191 777.16
134 00 00	2130 919.57	2146 143.01	2161 366.58	2176 590.28	2191 814.14
134 02 30	2130 961.83	2146 185.19	2161 408.69	2176 632.32	2191 856.10
134 05 00	2131 009.09	2146 232.38	2161 455.80	2176 679.35	2191 903.05
134 07 30	2131 061.34	2146 284.56	2161 507.90	2176 731.37	2191 954.99
134 10 00	2131 118.62	2146 341.75	2161 565.00	2176 788.38	2192 011.92
134 12 30	2131 180.89	2146 403.93	2161 627.10	2176 850.39	2192 073.83
134 15 00	2131 248.17	2146 471.13	2161 694.20	2176 917.39	2192 140.73
134 17 30	2131 320.47	2146 543.32	2161 766.29	2176 989.39	2192 212.63
134 20 00	2131 397.76	2146 620.52	2161 843.39	2177 066.39	2192 289.51
134 22 30	2131 480.07	2146 702.72	2161 925.48	2177 148.37	2192 371.39
134 25 00	2131 567.39	2146 789.93	2162 012.58	2177 235.36	2192 458.26
134 27 30	2131 659.71	2146 882.14	2162 104.68	2177 327.34	2192 550.12
134 30 00	2131 757.05	2146 979.36	2162 201.78	2177 424.32	2192 646.98

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.29	-.35	-.40	-.44	-.48	-.52	-.55	-.58	-.60	-.61	-.62	-.62

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	57 40 00	57 42 30	57 45 00	57 47 30	57 50 00
134 30 00	2522 482.47	2522 668.77	2522 855.07	2523 041.36	2523 227.62
134 32 30	2514 325.10	2514 520.75	2514 716.41	2514 912.05	2515 107.68
134 35 00	2506 167.79	2506 372.81	2506 577.81	2506 782.82	2506 987.80
134 37 30	2498 010.55	2498 224.91	2498 439.28	2498 653.64	2498 868.00
134 40 00	2489 853.38	2490 077.10	2490 300.83	2490 524.55	2490 748.27
134 42 30	2481 696.28	2481 929.36	2482 162.45	2482 395.53	2482 628.61
134 45 00	2473 539.26	2473 781.70	2474 024.14	2474 266.59	2474 509.04
134 47 30	2465 382.31	2465 634.11	2465 885.91	2466 137.73	2466 389.54
134 50 00	2457 225.45	2457 486.60	2457 747.77	2458 008.95	2458 270.14
134 52 30	2449 068.66	2449 339.18	2449 609.71	2449 880.26	2450 150.81
134 55 00	2440 911.97	2441 191.85	2441 471.74	2441 751.66	2442 031.58
134 57 30	2432 755.35	2433 044.59	2433 333.86	2433 623.14	2433 912.43
135 00 00	2424 598.82	2424 897.43	2425 196.06	2425 494.71	2425 793.38
135 02 30	2416 442.39	2416 750.37	2417 058.36	2417 366.39	2417 674.43
135 05 00	2408 286.05	2408 603.39	2408 920.76	2409 238.15	2409 555.57
135 07 30	2400 129.80	2400 456.51	2400 783.25	2401 110.02	2401 436.80
135 10 00	2391 973.67	2392 309.74	2392 645.84	2392 981.99	2393 318.15
135 12 30	2383 817.61	2384 163.06	2384 508.54	2384 854.06	2385 199.60
135 15 00	2375 661.67	2376 016.48	2376 371.34	2376 726.23	2377 081.15
135 17 30	2367 505.84	2367 870.02	2368 234.25	2368 598.52	2368 962.82
135 20 00	2359 350.10	2359 723.66	2360 097.27	2360 470.91	2360 844.59
135 22 30	2351 194.49	2351 577.41	2351 960.40	2352 343.42	2352 726.48
135 25 00	2343 038.98	2343 431.28	2343 823.64	2344 216.05	2344 608.49
135 27 30	2334 883.58	2335 285.26	2335 687.00	2336 088.79	2336 490.61
135 30 00	2326 728.31	2327 139.36	2327 550.48	2327 961.65	2328 372.86
135 32 30	2318 573.15	2318 993.59	2319 414.08	2319 834.64	2320 255.23
135 35 00	2310 418.11	2310 847.93	2311 277.81	2311 707.74	2312 137.73
135 37 30	2302 263.20	2302 702.40	2303 141.66	2303 580.98	2304 020.35
135 40 00	2294 108.42	2294 557.00	2295 005.64	2295 454.34	2295 903.11
135 42 30	2285 953.76	2286 411.72	2286 869.75	2287 327.84	2287 786.00
135 45 00	2277 799.23	2278 266.58	2278 733.99	2279 201.47	2279 669.01
135 47 30	2269 644.84	2270 121.58	2270 598.38	2271 075.25	2271 552.18
135 50 00	2261 490.59	2261 976.70	2262 462.89	2262 949.15	2263 435.48
135 52 30	2253 336.47	2253 831.97	2254 327.55	2254 823.20	2255 318.92
135 55 00	2245 182.49	2245 687.38	2246 192.35	2246 697.39	2247 202.51
135 57 30	2237 028.66	2237 542.93	2238 057.29	2238 571.73	2239 086.25
136 00 00	2228 874.97	2229 398.64	2229 922.38	2230 446.22	2230 970.13
136 02 30	2220 721.43	2221 254.49	2221 787.63	2222 320.86	2222 854.17
136 05 00	2212 568.04	2213 110.49	2213 653.02	2214 195.65	2214 738.36
136 07 30	2204 414.80	2204 966.64	2205 518.57	2206 070.59	2206 622.70
136 10 00	2196 261.72	2196 822.95	2197 384.28	2197 945.70	2198 507.22
136 12 30	2188 108.79	2188 679.42	2189 250.15	2189 820.97	2190 391.89
136 15 00	2179 956.02	2180 536.05	2181 116.18	2181 696.40	2182 276.71
136 17 30	2171 803.42	2172 392.85	2172 982.37	2173 571.99	2174 161.72
136 20 00	2163 650.98	2164 249.80	2164 848.73	2165 447.76	2166 046.88
136 22 30	2155 498.71	2156 106.93	2156 715.25	2157 323.69	2157 932.22
136 25 00	2147 346.60	2147 964.23	2148 581.96	2149 199.80	2149 817.74
136 27 30	2139 194.68	2139 821.69	2140 448.83	2141 076.07	2141 703.42
136 30 00	2131 042.91	2131 679.34	2132 315.88	2132 952.53	2133 589.29
136 32 30	2122 891.34	2123 537.17	2124 183.11	2124 829.17	2125 475.34
136 35 00	2114 739.94	2115 395.17	2116 050.52	2116 705.98	2117 361.57
136 37 30	2106 588.71	2107 253.35	2107 918.11	2108 582.99	2109 247.98
136 40 00	2098 437.68	2099 111.73	2099 785.90	2100 460.18	2101 134.59
136 42 30	2090 286.83	2090 970.28	2091 653.86	2092 337.56	2093 021.39
136 45 00	2082 136.17	2082 829.03	2083 522.02	2084 215.13	2084 908.37
136 47 30	2073 985.70	2074 687.97	2075 390.37	2076 092.90	2076 795.56
136 50 00	2065 835.43	2066 547.10	2067 258.92	2067 970.87	2068 682.94
136 52 30	2057 685.35	2058 406.44	2059 127.67	2059 849.03	2060 570.53
136 55 00	2049 535.46	2050 265.97	2050 996.62	2051 727.40	2052 458.31
136 57 30	2041 385.78	2042 125.70	2042 865.76	2043 605.96	2044 346.30
137 00 00	2033 236.31	2033 985.64	2034 735.12	2035 484.74	2036 234.49

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	57 40 00	57 42 30	57 45 00	57 47 30	57 50 00
134 30 00	2131 757.05	2146 979.36	2162 201.78	2177 424.32	2192 646.98
134 32 30	2131 859.39	2147 081.59	2162 303.88	2177 526.29	2192 748.82
134 35 00	2131 966.75	2147 188.82	2162 410.98	2177 633.26	2192 855.67
134 37 30	2132 079.12	2147 301.05	2162 523.09	2177 745.24	2192 967.50
134 40 00	2132 196.50	2147 418.31	2162 640.21	2177 862.21	2193 084.34
134 42 30	2132 318.90	2147 540.56	2162 762.32	2177 984.19	2193 206.17
134 45 00	2132 446.31	2147 667.83	2162 889.44	2178 111.16	2193 333.00
134 47 30	2132 578.73	2147 800.11	2163 021.57	2178 243.13	2193 464.82
134 50 00	2132 716.17	2147 937.39	2163 158.70	2178 380.12	2193 601.64
134 52 30	2132 858.62	2148 079.69	2163 300.84	2178 522.09	2193 743.45
134 55 00	2133 006.09	2148 227.00	2163 447.99	2178 669.08	2193 890.27
134 57 30	2133 158.58	2148 379.33	2163 600.15	2178 821.07	2194 042.09
135 00 00	2133 316.08	2148 536.66	2163 757.31	2178 978.06	2194 198.90
135 02 30	2133 478.61	2148 699.01	2163 919.49	2179 140.05	2194 360.72
135 05 00	2133 646.15	2148 866.37	2164 086.67	2179 307.05	2194 527.53
135 07 30	2133 818.70	2149 038.75	2164 258.86	2179 479.06	2194 699.35
135 10 00	2133 996.28	2149 216.14	2164 436.06	2179 656.07	2194 876.17
135 12 30	2134 178.88	2149 398.55	2164 618.28	2179 838.09	2195 057.99
135 15 00	2134 366.50	2149 585.97	2164 805.51	2180 025.12	2195 244.82
135 17 30	2134 559.14	2149 778.41	2164 997.74	2180 217.15	2195 436.65
135 20 00	2134 756.81	2149 975.87	2165 194.99	2180 414.20	2195 633.48
135 22 30	2134 959.49	2150 178.35	2165 397.26	2180 616.25	2195 835.32
135 25 00	2135 167.19	2150 385.84	2165 604.54	2180 823.31	2196 042.16
135 27 30	2135 379.93	2150 598.35	2165 816.84	2181 035.39	2196 254.01
135 30 00	2135 597.68	2150 815.89	2166 034.15	2181 252.47	2196 470.86
135 32 30	2135 820.46	2151 038.44	2166 256.47	2181 474.56	2196 692.73
135 35 00	2136 048.27	2151 266.01	2166 483.81	2181 701.66	2196 919.60
135 37 30	2136 281.09	2151 498.61	2166 716.17	2181 933.78	2197 151.47
135 40 00	2136 518.95	2151 736.22	2166 953.55	2182 170.92	2197 388.36
135 42 30	2136 761.83	2151 978.87	2167 195.94	2182 413.06	2197 630.26
135 45 00	2137 009.74	2152 226.53	2167 443.35	2182 660.22	2197 877.16
135 47 30	2137 262.68	2152 479.21	2167 695.78	2182 912.40	2198 129.07
135 50 00	2137 520.65	2152 736.92	2167 953.23	2183 169.59	2198 385.99
135 52 30	2137 783.64	2152 999.66	2168 215.70	2183 431.79	2198 647.93
135 55 00	2138 051.67	2153 267.42	2168 483.19	2183 699.01	2198 914.88
135 57 30	2138 324.73	2153 540.20	2168 755.70	2183 971.25	2199 186.84
136 00 00	2138 602.81	2153 818.01	2169 033.24	2184 248.51	2199 463.82
136 02 30	2138 885.93	2154 100.85	2169 315.80	2184 530.78	2199 745.81
136 05 00	2139 174.08	2154 388.72	2169 603.38	2184 818.07	2200 032.80
136 07 30	2139 467.26	2154 681.61	2169 895.98	2185 110.38	2200 324.83
136 10 00	2139 765.47	2154 979.54	2170 193.61	2185 407.71	2200 621.85
136 12 30	2140 068.73	2155 282.49	2170 496.26	2185 710.06	2200 923.90
136 15 00	2140 377.01	2155 590.47	2170 803.94	2186 017.44	2201 230.96
136 17 30	2140 690.33	2155 903.48	2171 116.65	2186 329.83	2201 543.05
136 20 00	2141 008.68	2156 221.52	2171 434.37	2186 647.24	2201 860.14
136 22 30	2141 332.07	2156 544.59	2171 757.13	2186 969.68	2202 182.25
136 25 00	2141 660.49	2156 872.70	2172 084.92	2187 297.14	2202 509.39
136 27 30	2141 993.96	2157 205.84	2172 417.73	2187 629.62	2202 841.54
136 30 00	2142 332.46	2157 544.02	2172 755.57	2187 967.13	2203 178.72
136 32 30	2142 676.00	2157 887.22	2173 098.44	2188 309.66	2203 520.91
136 35 00	2143 024.58	2158 235.46	2173 446.34	2188 657.22	2203 868.13
136 37 30	2143 378.19	2158 588.74	2173 799.27	2189 009.81	2204 220.36
136 40 00	2143 736.85	2158 947.05	2174 157.24	2189 367.42	2204 577.62
136 42 30	2144 100.54	2159 310.39	2174 520.23	2189 730.06	2204 939.89
136 45 00	2144 469.28	2159 678.77	2174 888.25	2190 097.72	2205 307.19
136 47 30	2144 843.07	2160 052.20	2175 261.31	2190 470.41	2205 679.52
136 50 00	2145 221.89	2160 430.66	2175 639.40	2190 848.13	2206 056.87
136 52 30	2145 605.75	2160 814.15	2176 022.52	2191 230.88	2206 439.24
136 55 00	2145 994.66	2161 202.68	2176 410.68	2191 618.66	2206 826.64
136 57 30	2146 388.61	2161 596.26	2176 803.87	2192 011.47	2207 219.06
137 00 00	2146 787.61	2161 994.87	2177 202.10	2192 409.31	2207 616.51

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.16	-.23	-.29	-.35	-.40	-.45	-.49	-.53	-.56	-.58	-.60	-.62	-.63	-.63

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	57 50 00	57 52 30	57 55 00	57 57 30	58 00 00
132 00 00	3010 465.92	3010 092.21	3009 718.30	3009 344.19	3008 969.87
132 02 30	3002 345.93	3001 981.53	3001 616.93	3001 252.12	3000 887.12
132 05 00	2994 225.88	2993 870.79	2993 515.49	2993 160.00	2992 804.30
132 07 30	2986 105.78	2985 759.99	2985 414.00	2985 067.82	2984 721.43
132 10 00	2977 985.61	2977 649.12	2977 312.44	2976 975.57	2976 638.51
132 12 30	2969 865.38	2969 538.19	2969 210.83	2968 883.27	2968 555.52
132 15 00	2961 745.09	2961 427.22	2961 109.16	2960 790.92	2960 472.49
132 17 30	2953 624.76	2953 316.19	2953 007.45	2952 698.52	2952 389.40
132 20 00	2945 504.36	2945 205.11	2944 905.68	2944 606.06	2944 306.26
132 22 30	2937 383.93	2937 093.98	2936 803.86	2936 513.56	2936 223.09
132 25 00	2929 263.44	2928 982.80	2928 702.00	2928 421.02	2928 139.86
132 27 30	2921 142.90	2920 871.58	2920 600.09	2920 328.43	2920 056.60
132 30 00	2913 022.32	2912 760.32	2912 498.15	2912 235.81	2911 973.30
132 32 30	2904 901.70	2904 649.01	2904 396.16	2904 143.14	2903 889.96
132 35 00	2896 781.05	2896 537.67	2896 294.14	2896 050.44	2895 806.58
132 37 30	2888 660.36	2888 426.30	2888 192.08	2887 957.71	2887 723.17
132 40 00	2880 539.63	2880 314.89	2880 089.99	2879 864.94	2879 639.73
132 42 30	2872 418.87	2872 203.45	2871 987.87	2871 772.15	2871 556.26
132 45 00	2864 298.08	2864 091.98	2863 885.73	2863 679.33	2863 472.78
132 47 30	2856 177.26	2855 980.48	2855 783.56	2855 586.48	2855 389.26
132 50 00	2848 056.42	2847 868.96	2847 681.36	2847 493.62	2847 305.72
132 52 30	2839 935.56	2839 757.42	2839 579.14	2839 400.73	2839 222.17
132 55 00	2831 814.66	2831 645.85	2831 476.91	2831 307.82	2831 138.59
132 57 30	2823 693.77	2823 534.28	2823 374.66	2823 214.90	2823 055.01
133 00 00	2815 572.84	2815 422.68	2815 272.38	2815 121.96	2814 971.41
133 02 30	2807 451.90	2807 311.07	2807 170.11	2807 029.02	2806 887.80
133 05 00	2799 330.96	2799 199.45	2799 067.82	2798 936.07	2798 804.18
133 07 30	2791 210.00	2791 087.82	2790 965.52	2790 843.10	2790 720.55
133 10 00	2783 089.03	2782 976.18	2782 863.22	2782 750.13	2782 636.92
133 12 30	2774 968.06	2774 864.55	2774 760.91	2774 657.17	2774 553.30
133 15 00	2766 847.08	2766 752.90	2766 658.61	2766 564.19	2766 469.66
133 17 30	2758 726.11	2758 641.26	2758 556.30	2758 471.23	2758 386.04
133 20 00	2750 605.14	2750 529.62	2750 453.99	2750 378.27	2750 302.42
133 22 30	2742 484.17	2742 417.98	2742 351.70	2742 285.31	2742 218.81
133 25 00	2734 363.21	2734 306.36	2734 249.41	2734 192.36	2734 135.20
133 27 30	2726 242.25	2726 194.73	2726 147.13	2726 099.42	2726 051.61
133 30 00	2718 121.30	2718 083.13	2718 044.86	2718 006.50	2717 968.04
133 32 30	2710 000.37	2709 971.53	2709 942.61	2709 913.59	2709 884.48
133 35 00	2701 879.46	2701 859.96	2701 840.38	2701 820.71	2701 800.94
133 37 30	2693 758.55	2693 748.40	2693 738.16	2693 727.84	2693 717.42
133 40 00	2685 637.67	2685 636.86	2685 635.96	2685 634.99	2685 633.92
133 42 30	2677 516.81	2677 525.34	2677 533.79	2677 542.17	2677 550.46
133 45 00	2669 395.97	2669 413.85	2669 431.65	2669 449.37	2669 467.01
133 47 30	2661 275.16	2661 302.38	2661 329.53	2661 356.61	2661 383.60
133 50 00	2653 154.38	2653 190.95	2653 227.45	2653 263.88	2653 300.22
133 52 30	2645 033.63	2645 079.55	2645 125.40	2645 171.18	2645 216.88
133 55 00	2636 912.91	2636 968.17	2637 023.37	2637 078.51	2637 133.57
133 57 30	2628 792.24	2628 856.85	2628 921.40	2628 985.88	2629 050.30
134 00 00	2620 671.59	2620 745.55	2620 819.46	2620 893.30	2620 967.08
134 02 30	2612 550.98	2612 634.30	2612 717.56	2612 800.76	2612 883.89
134 05 00	2604 430.43	2604 523.09	2604 615.71	2604 708.26	2604 800.76
134 07 30	2596 309.91	2596 411.93	2596 513.89	2596 615.81	2596 717.67
134 10 00	2588 189.43	2588 300.81	2588 412.13	2588 523.41	2588 634.64
134 12 30	2580 069.01	2580 189.75	2580 310.43	2580 431.07	2580 551.65
134 15 00	2571 948.64	2572 078.73	2572 208.78	2572 338.77	2572 468.72
134 17 30	2563 828.32	2563 967.77	2564 107.17	2564 246.54	2564 385.85
134 20 00	2555 708.06	2555 856.87	2556 005.64	2556 154.37	2556 303.04
134 22 30	2547 587.86	2547 746.02	2547 904.15	2548 062.24	2548 220.29
134 25 00	2539 467.72	2539 635.24	2539 802.74	2539 970.19	2540 137.61
134 27 30	2531 347.64	2531 524.52	2531 701.38	2531 878.21	2532 054.99
134 30 00	2523 227.62	2523 413.87	2523 600.09	2523 786.28	2523 972.44

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	57 50 00	57 52 30	57 55 00	57 57 30	58 00 00
132 00 00	2195 654.78	2210 877.54	2226 100.54	2241 323.79	2256 547.27
132 02 30	2195 457.97	2210 680.86	2225 903.99	2241 127.35	2256 350.94
132 05 00	2195 266.13	2210 489.14	2225 712.38	2240 935.86	2256 159.57
132 07 30	2195 079.25	2210 302.37	2225 525.73	2240 749.32	2255 973.13
132 10 00	2194 897.33	2210 120.56	2225 344.02	2240 567.73	2255 791.65
132 12 30	2194 720.37	2209 943.71	2225 167.29	2240 391.08	2255 615.11
132 15 00	2194 548.38	2209 771.82	2224 995.49	2240 219.39	2255 443.51
132 17 30	2194 381.35	2209 604.90	2224 828.66	2240 052.66	2255 276.87
132 20 00	2194 219.29	2209 442.93	2224 666.78	2239 890.87	2255 115.17
132 22 30	2194 062.19	2209 285.92	2224 509.87	2239 734.04	2254 958.43
132 25 00	2193 910.06	2209 133.87	2224 357.90	2239 582.16	2254 806.63
132 27 30	2193 762.89	2208 986.79	2224 210.90	2239 435.24	2254 659.78
132 30 00	2193 620.69	2208 844.66	2224 068.86	2239 293.27	2254 517.88
132 32 30	2193 483.46	2208 707.51	2223 931.78	2239 156.25	2254 380.94
132 35 00	2193 351.20	2208 575.31	2223 799.65	2239 024.19	2254 248.94
132 37 30	2193 223.90	2208 448.09	2223 672.48	2238 897.09	2254 121.90
132 40 00	2193 101.58	2208 325.83	2223 550.28	2238 774.95	2253 999.81
132 42 30	2192 984.23	2208 208.53	2223 433.04	2238 657.75	2253 882.67
132 45 00	2192 871.84	2208 096.19	2223 320.75	2238 545.53	2253 770.49
132 47 30	2192 764.43	2207 988.83	2223 213.43	2238 438.25	2253 663.26
132 50 00	2192 661.98	2207 886.43	2223 111.08	2238 335.93	2253 560.99
132 52 30	2192 564.51	2207 789.00	2223 013.69	2238 238.58	2253 463.67
132 55 00	2192 472.02	2207 696.54	2222 921.27	2238 146.18	2253 371.30
132 57 30	2192 384.49	2207 609.05	2222 833.80	2238 058.75	2253 283.90
133 00 00	2192 301.94	2207 526.52	2222 751.30	2237 976.28	2253 201.44
133 02 30	2192 224.36	2207 448.96	2222 673.77	2237 898.76	2253 123.95
133 05 00	2192 151.75	2207 376.38	2222 601.20	2237 826.21	2253 051.41
133 07 30	2192 084.13	2207 308.77	2222 533.60	2237 758.63	2252 983.83
133 10 00	2192 021.48	2207 246.13	2222 470.97	2237 696.00	2252 921.22
133 12 30	2191 963.80	2207 188.45	2222 413.30	2237 638.34	2252 863.55
133 15 00	2191 911.10	2207 135.76	2222 360.60	2237 585.64	2252 810.85
133 17 30	2191 863.38	2207 088.04	2222 312.88	2237 537.91	2252 763.11
133 20 00	2191 820.63	2207 045.29	2222 270.13	2237 495.14	2252 720.33
133 22 30	2191 782.86	2207 007.51	2222 232.33	2237 457.34	2252 682.52
133 25 00	2191 750.08	2206 974.71	2222 199.52	2237 424.50	2252 649.66
133 27 30	2191 722.27	2206 946.88	2222 171.67	2237 396.63	2252 621.77
133 30 00	2191 699.44	2206 924.03	2222 148.80	2237 373.73	2252 598.84
133 32 30	2191 681.59	2206 906.16	2222 130.89	2237 355.80	2252 580.87
133 35 00	2191 668.73	2206 893.26	2222 117.96	2237 342.84	2252 567.87
133 37 30	2191 660.84	2206 885.34	2222 110.00	2237 334.84	2252 559.83
133 40 00	2191 657.94	2206 882.40	2222 107.02	2237 331.81	2252 556.76
133 42 30	2191 660.02	2206 884.43	2222 109.01	2237 333.75	2252 558.65
133 45 00	2191 667.08	2206 891.45	2222 115.98	2237 340.67	2252 565.51
133 47 30	2191 679.13	2206 903.44	2222 127.92	2237 352.55	2252 577.34
133 50 00	2191 696.16	2206 920.42	2222 144.83	2237 369.41	2252 594.13
133 52 30	2191 718.17	2206 942.37	2222 166.72	2237 391.23	2252 615.89
133 55 00	2191 745.18	2206 969.31	2222 193.59	2237 418.03	2252 642.62
133 57 30	2191 777.16	2207 001.23	2222 225.44	2237 449.81	2252 674.32
134 00 00	2191 814.14	2207 038.13	2222 262.27	2237 486.56	2252 710.99
134 02 30	2191 856.10	2207 080.01	2222 304.07	2237 528.28	2252 752.62
134 05 00	2191 903.05	2207 126.88	2222 350.85	2237 574.97	2252 799.23
134 07 30	2191 954.99	2207 178.73	2222 402.62	2237 626.64	2252 850.81
134 10 00	2192 011.92	2207 235.56	2222 459.36	2237 683.29	2252 907.36
134 12 30	2192 073.83	2207 297.38	2222 521.08	2237 744.91	2252 968.88
134 15 00	2192 140.73	2207 364.19	2222 587.78	2237 811.51	2253 035.38
134 17 30	2192 212.63	2207 435.98	2222 659.47	2237 883.09	2253 106.85
134 20 00	2192 289.51	2207 512.76	2222 736.14	2237 959.65	2253 183.29
134 22 30	2192 371.39	2207 594.53	2222 817.79	2238 041.18	2253 264.70
134 25 00	2192 458.26	2207 681.28	2222 904.42	2238 127.70	2253 351.10
134 27 30	2192 550.12	2207 773.02	2222 996.04	2238 219.19	2253 442.46
134 30 00	2192 646.98	2207 869.75	2223 092.64	2238 315.66	2253 538.80

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.29	-.35	-.40	-.44	-.48	-.52	-.55	-.58	-.60	-.61	-.62	-.62

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	57 50 00	57 52 30	57 55 00	57 57 30	58 00 00
134 30 00	2523 227.62	2523 413.87	2523 600.09	2523 786.28	2523 972.44
134 32 30	2515 107.68	2515 303.29	2515 498.87	2515 694.44	2515 889.97
134 35 00	2506 987.80	2507 192.78	2507 397.74	2507 602.67	2507 807.57
134 37 30	2498 868.00	2499 082.34	2499 296.66	2499 510.96	2499 725.24
134 40 00	2490 748.27	2490 971.98	2491 195.67	2491 419.34	2491 643.00
134 42 30	2482 628.61	2482 861.69	2483 094.75	2483 327.80	2483 560.83
134 45 00	2474 509.04	2474 751.48	2474 993.92	2475 236.34	2475 478.75
134 47 30	2466 389.54	2466 641.35	2466 893.16	2467 144.96	2467 396.75
134 50 00	2458 270.14	2458 531.32	2458 792.50	2459 053.68	2459 314.84
134 52 30	2450 150.81	2450 421.36	2450 691.92	2450 962.47	2451 233.02
134 55 00	2442 031.58	2442 311.51	2442 591.44	2442 871.37	2443 151.29
134 57 30	2433 912.43	2434 201.74	2434 491.04	2434 780.35	2435 069.66
135 00 00	2425 793.38	2426 092.05	2426 390.74	2426 689.43	2426 988.12
135 02 30	2417 674.43	2417 982.48	2418 290.54	2418 598.61	2418 906.68
135 05 00	2409 555.57	2409 872.99	2410 190.44	2410 507.89	2410 825.35
135 07 30	2401 436.80	2401 763.61	2402 090.44	2402 417.28	2402 744.12
135 10 00	2393 318.15	2393 654.34	2393 990.54	2394 326.77	2394 663.00
135 12 30	2385 199.60	2385 545.16	2385 890.75	2386 236.36	2386 581.98
135 15 00	2377 081.15	2377 436.10	2377 791.07	2378 146.06	2378 501.07
135 17 30	2368 962.82	2369 327.15	2369 691.50	2370 055.89	2370 420.29
135 20 00	2360 844.59	2361 218.31	2361 592.05	2361 965.82	2362 339.61
135 22 30	2352 726.48	2353 109.58	2353 492.71	2353 875.87	2354 259.05
135 25 00	2344 608.49	2345 000.98	2345 393.49	2345 786.04	2346 178.61
135 27 30	2336 490.61	2336 892.48	2337 294.39	2337 696.33	2338 098.30
135 30 00	2328 372.86	2328 784.12	2329 195.41	2329 606.74	2330 018.11
135 32 30	2320 255.23	2320 675.88	2321 096.57	2321 517.29	2321 938.05
135 35 00	2312 137.73	2312 567.76	2312 997.84	2313 427.96	2313 858.12
135 37 30	2304 020.35	2304 459.78	2304 899.25	2305 338.76	2305 778.32
135 40 00	2295 903.11	2296 351.93	2296 800.79	2297 249.70	2297 698.66
135 42 30	2287 786.00	2288 244.20	2288 702.47	2289 160.78	2289 619.13
135 45 00	2279 669.01	2280 136.62	2280 604.28	2281 071.99	2281 539.74
135 47 30	2271 552.18	2272 029.17	2272 506.23	2272 983.34	2273 460.50
135 50 00	2263 435.48	2263 921.88	2264 408.32	2264 894.83	2265 381.39
135 52 30	2255 318.92	2255 814.71	2256 310.56	2256 806.47	2257 302.43
135 55 00	2247 202.51	2247 707.70	2248 212.95	2248 718.27	2249 223.63
135 57 30	2239 086.25	2239 600.83	2240 115.49	2240 630.20	2241 144.98
136 00 00	2230 970.13	2231 494.11	2232 018.17	2232 542.29	2233 066.48
136 02 30	2222 854.17	2223 387.55	2223 921.01	2224 454.54	2224 988.14
136 05 00	2214 738.36	2215 281.14	2215 824.01	2216 366.94	2216 909.94
136 07 30	2206 622.70	2207 174.90	2207 727.17	2208 279.51	2208 831.91
136 10 00	2198 507.22	2199 068.81	2199 630.48	2200 192.24	2200 754.06
136 12 30	2190 391.89	2190 962.88	2191 533.96	2192 105.12	2192 676.36
136 15 00	2182 276.71	2182 857.12	2183 437.61	2184 018.17	2184 598.83
136 17 30	2174 161.72	2174 751.53	2175 341.43	2175 931.41	2176 521.47
136 20 00	2166 046.88	2166 646.10	2167 245.41	2167 844.80	2168 444.29
136 22 30	2157 932.22	2158 540.85	2159 149.57	2159 758.38	2160 367.27
136 25 00	2149 817.74	2150 435.77	2151 053.91	2151 672.13	2152 290.44
136 27 30	2141 703.42	2142 330.87	2142 958.42	2143 586.06	2144 213.79
136 30 00	2133 589.29	2134 226.15	2134 863.11	2135 500.17	2136 137.32
136 32 30	2125 475.34	2126 121.61	2126 767.99	2127 414.47	2128 061.04
136 35 00	2117 361.57	2118 017.25	2118 673.05	2119 328.95	2119 984.94
136 37 30	2109 247.98	2109 913.09	2110 578.30	2111 243.61	2111 909.03
136 40 00	2101 134.59	2101 809.11	2102 483.74	2103 158.48	2103 833.32
136 42 30	2093 021.39	2093 705.32	2094 389.37	2095 073.53	2095 757.79
136 45 00	2084 908.37	2085 601.73	2086 295.20	2086 988.78	2087 682.47
136 47 30	2076 795.56	2077 498.34	2078 201.23	2078 904.23	2079 607.34
136 50 00	2068 682.94	2069 395.14	2070 107.45	2070 819.88	2071 532.42
136 52 30	2060 570.53	2061 292.14	2062 013.88	2062 735.74	2063 457.71
136 55 00	2052 458.31	2053 189.35	2053 920.51	2054 651.79	2055 383.19
136 57 30	2044 346.30	2045 086.76	2045 827.35	2046 568.06	2047 308.86
137 00 00	2036 234.49	2036 984.38	2037 734.40	2038 484.54	2039 234.80

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	57 50 00	57 52 30	57 55 00	57 57 30	58 00 00
134 30 00	2192 646.98	2207 869.75	2223 092.64	2238 315.66	2253 538.80
134 32 30	2192 748.82	2207 971.47	2223 194.23	2238 417.11	2253 640.12
134 35 00	2192 855.67	2208 078.17	2223 300.80	2238 523.55	2253 746.41
134 37 30	2192 967.50	2208 189.87	2223 412.36	2238 634.97	2253 857.68
134 40 00	2193 084.34	2208 306.56	2223 528.91	2238 751.37	2253 973.93
134 42 30	2193 206.17	2208 428.25	2223 650.44	2238 872.75	2254 095.16
134 45 00	2193 333.00	2208 554.92	2223 776.96	2238 999.11	2254 221.37
134 47 30	2193 464.82	2208 686.58	2223 908.47	2239 130.46	2254 352.55
134 50 00	2193 601.64	2208 823.25	2224 044.96	2239 266.79	2254 488.72
134 52 30	2193 743.45	2208 964.90	2224 186.45	2239 408.11	2254 629.87
134 55 00	2193 890.27	2209 111.55	2224 332.93	2239 554.42	2254 776.00
134 57 30	2194 042.09	2209 263.19	2224 484.40	2239 705.70	2254 927.11
135 00 00	2194 198.90	2209 419.83	2224 640.86	2239 861.98	2255 083.20
135 02 30	2194 360.72	2209 581.46	2224 802.30	2240 023.25	2255 244.28
135 05 00	2194 527.53	2209 748.09	2224 968.74	2240 189.50	2255 410.33
135 07 30	2194 699.35	2209 919.72	2225 140.18	2240 360.73	2255 581.38
135 10 00	2194 876.17	2210 096.34	2225 316.61	2240 536.96	2255 757.40
135 12 30	2195 057.99	2210 277.96	2225 498.03	2240 718.18	2255 938.42
135 15 00	2195 244.82	2210 464.59	2225 684.44	2240 904.39	2256 124.41
135 17 30	2195 436.65	2210 656.21	2225 875.86	2241 095.58	2256 315.39
135 20 00	2195 633.48	2210 852.83	2226 072.26	2241 291.77	2256 511.37
135 22 30	2195 835.32	2211 054.45	2226 273.66	2241 492.95	2256 712.32
135 25 00	2196 042.16	2211 261.07	2226 480.05	2241 699.12	2256 918.26
135 27 30	2196 254.01	2211 472.69	2226 691.45	2241 910.29	2257 129.20
135 30 00	2196 470.86	2211 689.32	2226 907.84	2242 126.44	2257 345.11
135 32 30	2196 692.73	2211 910.94	2227 129.23	2242 347.59	2257 566.03
135 35 00	2196 919.60	2212 137.57	2227 355.62	2242 573.74	2257 791.92
135 37 30	2197 151.47	2212 369.20	2227 587.01	2242 804.88	2258 022.81
135 40 00	2197 388.36	2212 605.84	2227 823.40	2243 041.02	2258 258.69
135 42 30	2197 630.26	2212 847.49	2228 064.78	2243 282.15	2258 499.56
135 45 00	2197 877.16	2213 094.13	2228 311.17	2243 528.27	2258 745.43
135 47 30	2198 129.07	2213 345.79	2228 562.56	2243 779.39	2258 996.28
135 50 00	2198 385.99	2213 602.45	2228 818.95	2244 035.52	2259 252.13
135 52 30	2198 647.93	2213 864.12	2229 080.35	2244 296.64	2259 512.97
135 55 00	2198 914.88	2214 130.79	2229 346.74	2244 562.75	2259 778.80
135 57 30	2199 186.84	2214 402.47	2229 618.14	2244 833.87	2260 049.63
136 00 00	2199 463.82	2214 679.16	2229 894.55	2245 109.98	2260 325.46
136 02 30	2199 745.81	2214 960.86	2230 175.96	2245 391.10	2260 606.28
136 05 00	2200 032.80	2215 247.57	2230 462.37	2245 677.22	2260 892.10
136 07 30	2200 324.83	2215 539.28	2230 753.79	2245 968.33	2261 182.92
136 10 00	2200 621.85	2215 836.01	2231 050.21	2246 264.45	2261 478.73
136 12 30	2200 923.90	2216 137.76	2231 351.65	2246 565.58	2261 779.53
136 15 00	2201 230.96	2216 444.51	2231 658.09	2246 871.70	2262 085.34
136 17 30	2201 543.05	2216 756.27	2231 969.54	2247 182.83	2262 396.14
136 20 00	2201 860.14	2217 073.05	2232 285.99	2247 498.96	2262 711.95
136 22 30	2202 182.25	2217 394.85	2232 607.45	2247 820.09	2263 032.75
136 25 00	2202 509.39	2217 721.65	2232 933.93	2248 146.23	2263 358.56
136 27 30	2202 841.54	2218 053.47	2233 265.41	2248 477.38	2263 689.36
136 30 00	2203 178.72	2218 390.30	2233 601.91	2248 813.53	2264 025.17
136 32 30	2203 520.91	2218 732.15	2233 943.41	2249 154.69	2264 365.98
136 35 00	2203 868.13	2219 079.02	2234 289.93	2249 500.86	2264 711.79
136 37 30	2204 220.36	2219 430.90	2234 641.46	2249 852.03	2265 062.60
136 40 00	2204 577.62	2219 787.80	2234 998.00	2250 208.21	2265 418.42
136 42 30	2204 939.89	2220 149.72	2235 359.55	2250 569.40	2265 779.25
136 45 00	2205 307.19	2220 516.65	2235 726.12	2250 935.59	2266 145.07
136 47 30	2205 679.52	2220 888.61	2236 097.70	2251 306.80	2266 515.90
136 50 00	2206 056.87	2221 265.58	2236 474.31	2251 683.03	2266 891.74
136 52 30	2206 439.24	2221 647.58	2236 855.92	2252 064.26	2267 272.58
136 55 00	2206 826.64	2222 034.59	2237 242.55	2252 450.50	2267 658.44
136 57 30	2207 219.06	2222 426.63	2237 634.19	2252 841.75	2268 049.29
137 00 00	2207 616.51	2222 823.69	2238 030.85	2253 238.01	2268 445.16

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.29	-.35	-.40	-.44	-.48	-.52	-.55	-.58	-.60	-.61	-.62	-.62

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	58 00 00	58 02 30	58 05 00	58 07 30	58 10 00
132 00 00	3008 969.87	3008 595.34	3008 220.58	3007 845.61	3007 470.42
132 02 30	3000 887.12	3000 521.90	3000 156.46	2999 790.81	2999 424.95
132 05 00	2992 804.30	2992 448.40	2992 092.28	2991 735.96	2991 379.41
132 07 30	2984 721.43	2984 374.85	2984 028.06	2983 681.05	2983 333.84
132 10 00	2976 638.51	2976 301.24	2975 963.77	2975 626.09	2975 288.20
132 12 30	2968 555.52	2968 227.57	2967 899.42	2967 571.07	2967 242.51
132 15 00	2960 472.49	2960 153.86	2959 835.03	2959 516.01	2959 196.78
132 17 30	2952 389.40	2952 080.09	2951 770.59	2951 460.89	2951 150.99
132 20 00	2944 306.26	2944 006.28	2943 706.10	2943 405.73	2943 105.16
132 22 30	2936 223.09	2935 932.43	2935 641.58	2935 350.53	2935 059.29
132 25 00	2928 139.86	2927 858.52	2927 577.01	2927 295.29	2927 013.38
132 27 30	2920 056.60	2919 784.58	2919 512.39	2919 240.01	2918 967.44
132 30 00	2911 973.30	2911 710.62	2911 447.75	2911 184.70	2910 921.46
132 32 30	2903 889.96	2903 636.59	2903 383.06	2903 129.34	2902 875.45
132 35 00	2895 806.58	2895 562.55	2895 318.34	2895 073.96	2894 829.40
132 37 30	2887 723.17	2887 488.47	2887 253.60	2887 018.55	2886 783.33
132 40 00	2879 639.73	2879 414.36	2879 188.82	2878 963.11	2878 737.23
132 42 30	2871 556.26	2871 340.23	2871 124.02	2870 907.65	2870 691.10
132 45 00	2863 472.78	2863 266.07	2863 059.20	2862 852.16	2862 644.96
132 47 30	2855 389.26	2855 191.88	2854 994.35	2854 796.65	2854 598.79
132 50 00	2847 305.72	2847 117.68	2846 929.48	2846 741.12	2846 552.60
132 52 30	2839 222.17	2839 043.46	2838 864.60	2838 685.59	2838 506.41
132 55 00	2831 138.59	2830 969.22	2830 799.70	2830 630.02	2830 460.20
132 57 30	2823 055.01	2822 894.98	2822 734.79	2822 574.46	2822 413.98
133 00 00	2814 971.41	2814 820.71	2814 669.87	2814 518.88	2814 367.74
133 02 30	2806 887.80	2806 746.44	2806 604.94	2806 463.29	2806 321.50
133 05 00	2798 804.18	2798 672.16	2798 540.01	2798 407.71	2798 275.26
133 07 30	2790 720.55	2790 597.87	2790 475.06	2790 352.11	2790 229.02
133 10 00	2782 636.92	2782 523.59	2782 410.12	2782 296.52	2782 182.77
133 12 30	2774 553.30	2774 449.30	2774 345.18	2774 240.93	2774 136.54
133 15 00	2766 469.66	2766 375.02	2766 280.24	2766 185.33	2766 090.30
133 17 30	2758 386.04	2758 300.73	2758 215.30	2758 129.75	2758 044.07
133 20 00	2750 302.42	2750 226.46	2750 150.39	2750 074.18	2749 997.85
133 22 30	2742 218.81	2742 152.20	2742 085.47	2742 018.62	2741 951.65
133 25 00	2734 135.20	2734 077.94	2734 020.56	2733 963.07	2733 905.45
133 27 30	2726 051.61	2726 003.70	2725 955.68	2725 907.53	2725 859.27
133 30 00	2717 968.04	2717 929.47	2717 890.80	2717 852.01	2717 813.10
133 32 30	2709 884.48	2709 855.26	2709 825.94	2709 796.51	2709 766.97
133 35 00	2701 800.94	2701 781.08	2701 761.11	2701 741.04	2701 720.85
133 37 30	2693 717.42	2693 706.91	2693 696.30	2693 685.59	2693 674.76
133 40 00	2685 633.92	2685 632.76	2685 631.51	2685 630.15	2685 628.70
133 42 30	2677 550.46	2677 558.65	2677 566.75	2677 574.76	2677 582.67
133 45 00	2669 467.01	2669 484.56	2669 502.02	2669 519.39	2669 536.66
133 47 30	2661 383.60	2661 410.51	2661 437.33	2661 464.06	2661 490.69
133 50 00	2653 300.22	2653 336.49	2653 372.67	2653 408.76	2653 444.77
133 52 30	2645 216.88	2645 262.50	2645 308.04	2645 353.51	2645 398.87
133 55 00	2637 133.57	2637 188.55	2637 243.46	2637 298.28	2637 353.02
133 57 30	2629 050.30	2629 114.65	2629 178.92	2629 243.11	2629 307.22
134 00 00	2620 967.08	2621 040.78	2621 114.42	2621 187.98	2621 261.45
134 02 30	2612 883.89	2612 966.96	2613 049.96	2613 132.88	2613 215.73
134 05 00	2604 800.76	2604 893.20	2604 985.56	2605 077.85	2605 170.08
134 07 30	2596 717.67	2596 819.47	2596 921.20	2597 022.87	2597 124.46
134 10 00	2588 634.64	2588 745.80	2588 856.90	2588 967.93	2589 078.90
134 12 30	2580 551.65	2580 672.18	2580 792.65	2580 913.06	2581 033.40
134 15 00	2572 468.72	2572 598.62	2572 728.46	2572 858.24	2572 987.96
134 17 30	2564 385.85	2564 525.12	2564 664.33	2564 803.49	2564 942.58
134 20 00	2556 303.04	2556 451.68	2556 600.27	2556 748.80	2556 897.27
134 22 30	2548 220.29	2548 378.30	2548 536.26	2548 694.17	2548 852.02
134 25 00	2540 137.61	2540 304.98	2540 472.32	2540 639.60	2540 806.83
134 27 30	2532 054.99	2532 231.75	2532 408.46	2532 585.12	2532 761.72
134 30 00	2523 972.44	2524 158.57	2524 344.66	2524 530.70	2524 716.69

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.01	+.02	+.02	+.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	58 00 00	58 02 30	58 05 00	58 07 30	58 10 00
132 00 00	2256 547.27	2271 771.00	2286 994.97	2302 219.20	2317 443.67
132 02 30	2256 350.94	2271 574.79	2286 798.88	2302 023.22	2317 247.80
132 05 00	2256 159.57	2271 383.52	2286 607.73	2301 832.17	2317 056.86
132 07 30	2255 973.13	2271 197.20	2286 421.50	2301 646.06	2316 870.85
132 10 00	2255 791.65	2271 015.82	2286 240.23	2301 464.88	2316 689.77
132 12 30	2255 615.11	2270 839.38	2286 063.89	2301 288.63	2316 513.62
132 15 00	2255 443.51	2270 667.89	2285 892.49	2301 117.32	2316 342.40
132 17 30	2255 276.87	2270 501.33	2285 726.03	2300 950.95	2316 176.11
132 20 00	2255 115.17	2270 339.72	2285 564.50	2300 789.51	2316 014.76
132 22 30	2254 958.43	2270 183.06	2285 407.92	2300 633.01	2315 858.33
132 25 00	2254 806.63	2270 031.34	2285 256.28	2300 481.45	2315 706.84
132 27 30	2254 659.78	2269 884.56	2285 109.57	2300 334.82	2315 560.28
132 30 00	2254 517.88	2269 742.74	2284 967.82	2300 193.13	2315 418.66
132 32 30	2254 380.94	2269 605.86	2284 831.00	2300 056.37	2315 281.97
132 35 00	2254 248.94	2269 473.93	2284 699.13	2299 924.56	2315 150.22
132 37 30	2254 121.90	2269 346.94	2284 572.20	2299 797.69	2315 023.39
132 40 00	2253 999.81	2269 224.91	2284 450.22	2299 675.75	2314 901.51
132 42 30	2253 882.67	2269 107.82	2284 333.18	2299 558.76	2314 784.56
132 45 00	2253 770.49	2268 995.68	2284 221.09	2299 446.71	2314 672.55
132 47 30	2253 663.26	2268 888.49	2284 113.94	2299 339.60	2314 565.48
132 50 00	2253 560.99	2268 786.26	2284 011.74	2299 237.43	2314 463.34
132 52 30	2253 463.67	2268 688.97	2283 914.48	2299 140.21	2314 366.14
132 55 00	2253 371.30	2268 596.63	2283 822.17	2299 047.92	2314 273.88
132 57 30	2253 283.90	2268 509.25	2283 734.81	2298 960.59	2314 186.56
133 00 00	2253 201.44	2268 426.82	2283 652.40	2298 878.19	2314 104.18
133 02 30	2253 123.95	2268 349.34	2283 574.93	2298 800.74	2314 026.74
133 05 00	2253 051.41	2268 276.82	2283 502.42	2298 728.23	2313 954.24
133 07 30	2252 983.83	2268 209.25	2283 434.86	2298 660.67	2313 886.68
133 10 00	2252 921.22	2268 146.63	2283 372.24	2298 598.06	2313 824.07
133 12 30	2252 863.55	2268 088.97	2283 314.58	2298 540.39	2313 766.39
133 15 00	2252 810.85	2268 036.26	2283 261.87	2298 487.67	2313 713.67
133 17 30	2252 763.11	2267 988.52	2283 214.11	2298 439.90	2313 665.88
133 20 00	2252 720.33	2267 945.72	2283 171.30	2298 397.08	2313 623.04
133 22 30	2252 682.52	2267 907.89	2283 133.45	2298 359.20	2313 585.14
133 25 00	2252 649.66	2267 875.01	2283 100.55	2298 326.28	2313 552.18
133 27 30	2252 621.77	2267 847.09	2283 072.60	2298 298.30	2313 524.17
133 30 00	2252 598.84	2267 824.14	2283 049.61	2298 275.27	2313 501.11
133 32 30	2252 580.87	2267 806.13	2283 031.57	2298 257.19	2313 482.99
133 35 00	2252 567.87	2267 793.09	2283 018.49	2298 244.07	2313 469.83
133 37 30	2252 559.83	2267 785.01	2283 010.37	2298 235.90	2313 461.60
133 40 00	2252 556.76	2267 781.89	2283 007.20	2298 232.68	2313 458.33
133 42 30	2252 558.65	2267 783.73	2283 008.98	2298 234.41	2313 460.01
133 45 00	2252 565.51	2267 790.54	2283 015.73	2298 241.10	2313 466.63
133 47 30	2252 577.34	2267 802.30	2283 027.44	2298 252.74	2313 478.20
133 50 00	2252 594.13	2267 819.03	2283 044.09	2298 269.33	2313 494.73
133 52 30	2252 615.89	2267 840.72	2283 065.71	2298 290.87	2313 516.20
133 55 00	2252 642.62	2267 867.38	2283 092.30	2298 317.38	2313 542.62
133 57 30	2252 674.32	2267 899.00	2283 123.84	2298 348.84	2313 574.00
134 00 00	2252 710.99	2267 935.58	2283 160.34	2298 385.26	2313 610.33
134 02 30	2252 752.62	2267 977.13	2283 201.80	2298 426.63	2313 651.61
134 05 00	2252 799.23	2268 023.65	2283 248.23	2298 472.97	2313 697.85
134 07 30	2252 850.81	2268 075.14	2283 299.62	2298 524.25	2313 749.04
134 10 00	2252 907.36	2268 131.59	2283 355.97	2298 580.50	2313 805.18
134 12 30	2252 968.88	2268 193.01	2283 417.29	2298 641.71	2313 866.28
134 15 00	2253 035.38	2268 259.40	2283 483.56	2298 707.87	2313 932.33
134 17 30	2253 106.85	2268 330.75	2283 554.80	2298 779.00	2314 003.34
134 20 00	2253 183.29	2268 407.08	2283 631.01	2298 855.09	2314 079.31
134 22 30	2253 264.70	2268 488.37	2283 712.18	2298 936.13	2314 160.23
134 25 00	2253 351.10	2268 574.64	2283 798.32	2299 022.14	2314 246.11
134 27 30	2253 442.46	2268 665.88	2283 889.42	2299 113.12	2314 336.95
134 30 00	2253 538.80	2268 762.08	2283 985.50	2299 209.05	2314 432.74

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.29	-.35	-.40	-.44	-.48	-.52	-.55	-.58	-.60	-.61	-.62	-.62

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	58 00 00	58 02 30	58 05 00	58 07 30	58 10 00
134 30 00	2523 972.44	2524 158.57	2524 344.66	2524 530.70	2524 716.69
134 32 30	2515 889.97	2516 085.47	2516 280.93	2516 476.35	2516 671.73
134 35 00	2507 807.57	2508 012.45	2508 217.29	2508 422.09	2508 626.85
134 37 30	2499 725.24	2499 939.49	2500 153.71	2500 367.90	2500 582.04
134 40 00	2491 643.00	2491 866.62	2492 090.23	2492 313.79	2492 537.32
134 42 30	2483 560.83	2483 793.84	2484 026.82	2484 259.77	2484 492.69
134 45 00	2475 478.75	2475 721.13	2475 963.50	2476 205.83	2476 448.14
134 47 30	2467 396.75	2467 648.51	2467 900.26	2468 151.98	2468 403.68
134 50 00	2459 314.84	2459 575.99	2459 837.12	2460 098.23	2460 359.31
134 52 30	2451 233.02	2451 503.55	2451 774.07	2452 044.56	2452 315.04
134 55 00	2443 151.29	2443 431.21	2443 711.11	2443 990.99	2444 270.86
134 57 30	2435 069.66	2435 358.96	2435 648.25	2435 937.53	2436 226.78
135 00 00	2426 988.12	2427 286.81	2427 585.49	2427 884.15	2428 182.80
135 02 30	2418 906.68	2419 214.76	2419 522.83	2419 830.89	2420 138.93
135 05 00	2410 825.35	2411 142.81	2411 460.27	2411 777.72	2412 095.16
135 07 30	2402 744.12	2403 070.97	2403 397.81	2403 724.66	2404 051.50
135 10 00	2394 663.00	2394 999.23	2395 335.48	2395 671.72	2396 007.95
135 12 30	2386 581.98	2386 927.60	2387 273.24	2387 618.88	2387 964.52
135 15 00	2378 501.07	2378 856.10	2379 211.12	2379 566.16	2379 921.19
135 17 30	2370 420.29	2370 784.70	2371 149.12	2371 513.55	2371 877.99
135 20 00	2362 339.61	2362 713.41	2363 087.24	2363 461.07	2363 834.90
135 22 30	2354 259.05	2354 642.25	2355 025.47	2355 408.70	2355 791.94
135 25 00	2346 178.61	2346 571.21	2346 963.83	2347 356.46	2347 749.10
135 27 30	2338 098.30	2338 500.29	2338 902.31	2339 304.34	2339 706.39
135 30 00	2330 018.11	2330 429.50	2330 840.91	2331 252.36	2331 663.81
135 32 30	2321 938.05	2322 358.84	2322 779.66	2323 200.50	2323 621.36
135 35 00	2313 858.12	2314 288.31	2314 718.53	2315 148.77	2315 579.04
135 37 30	2305 778.32	2306 217.91	2306 657.53	2307 097.18	2307 536.86
135 40 00	2297 698.66	2298 147.65	2298 596.68	2299 045.74	2299 494.82
135 42 30	2289 619.13	2290 077.53	2290 535.96	2290 994.42	2291 452.92
135 45 00	2281 539.74	2282 007.54	2282 475.38	2282 943.26	2283 411.16
135 47 30	2273 460.50	2273 937.70	2274 414.95	2274 892.24	2275 369.55
135 50 00	2265 381.39	2265 868.00	2266 354.66	2266 841.36	2267 328.09
135 52 30	2257 302.43	2257 798.45	2258 294.52	2258 790.63	2259 286.77
135 55 00	2249 223.63	2249 729.06	2250 234.53	2250 740.05	2251 245.62
135 57 30	2241 144.98	2241 659.81	2242 174.70	2242 689.63	2243 204.61
136 00 00	2233 066.48	2233 590.72	2234 115.02	2234 639.36	2235 163.76
136 02 30	2224 988.14	2225 521.79	2226 055.50	2226 589.26	2227 123.08
136 05 00	2216 909.94	2217 453.01	2217 996.13	2218 539.32	2219 082.55
136 07 30	2208 831.91	2209 384.39	2209 936.94	2210 489.54	2211 042.19
136 10 00	2200 754.06	2201 315.95	2201 877.91	2202 439.93	2203 002.00
136 12 30	2192 676.36	2193 247.67	2193 819.04	2194 390.48	2194 961.98
136 15 00	2184 598.83	2185 179.55	2185 760.34	2186 341.20	2186 922.12
136 17 30	2176 521.47	2177 111.61	2177 701.82	2178 292.10	2178 882.45
136 20 00	2168 444.29	2169 043.84	2169 643.48	2170 243.18	2170 842.95
136 22 30	2160 367.27	2160 976.25	2161 585.30	2162 194.43	2162 803.62
136 25 00	2152 290.44	2152 908.84	2153 527.32	2154 145.87	2154 764.49
136 27 30	2144 213.79	2144 841.61	2145 469.50	2146 097.48	2146 725.53
136 30 00	2136 137.32	2136 774.56	2137 411.88	2138 049.28	2138 686.76
136 32 30	2128 061.04	2128 707.70	2129 354.45	2130 001.28	2130 648.19
136 35 00	2119 984.94	2120 641.02	2121 297.20	2121 953.46	2122 609.80
136 37 30	2111 909.03	2112 574.54	2113 240.14	2113 905.83	2114 571.60
136 40 00	2103 833.32	2104 508.25	2105 183.28	2105 858.40	2106 533.61
136 42 30	2095 757.79	2096 442.15	2097 126.62	2097 811.17	2098 495.81
136 45 00	2087 682.47	2088 376.26	2089 070.15	2089 764.13	2090 458.21
136 47 30	2079 607.34	2080 310.56	2081 013.89	2081 717.30	2082 420.82
136 50 00	2071 532.42	2072 245.07	2072 957.83	2073 670.68	2074 383.63
136 52 30	2063 457.71	2064 179.79	2064 901.98	2065 624.26	2066 346.65
136 55 00	2055 383.19	2056 114.70	2056 846.32	2057 578.05	2058 309.88
136 57 30	2047 308.88	2048 049.83	2048 790.89	2049 532.05	2050 273.32
137 00 00	2039 234.80	2039 985.18	2040 735.67	2041 486.27	2042 236.98

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	58 00 00	58 02 30	58 05 00	58 07 30	58 10 00
134 30 00	2253 538.80	2268 762.08	2283 985.50	2299 209.05	2314 432.74
134 32 30	2253 640.12	2268 863.26	2284 086.54	2299 309.95	2314 533.49
134 35 00	2253 746.41	2268 969.42	2284 192.54	2299 415.81	2314 639.21
134 37 30	2253 857.68	2269 080.54	2284 303.53	2299 526.64	2314 749.88
134 40 00	2253 973.93	2269 196.64	2284 419.47	2299 642.43	2314 865.51
134 42 30	2254 095.16	2269 317.72	2284 540.38	2299 763.19	2314 986.10
134 45 00	2254 221.37	2269 443.76	2284 666.27	2299 888.91	2315 111.66
134 47 30	2254 352.55	2269 574.78	2284 797.13	2300 019.59	2315 242.18
134 50 00	2254 488.72	2269 710.78	2284 932.96	2300 155.25	2315 377.66
134 52 30	2254 629.87	2269 851.75	2285 073.75	2300 295.87	2315 518.11
134 55 00	2254 776.00	2269 997.71	2285 219.53	2300 441.46	2315 663.51
134 57 30	2254 927.11	2270 148.64	2285 370.27	2300 592.02	2315 813.89
135 00 00	2255 083.20	2270 304.54	2285 525.99	2300 747.55	2315 969.22
135 02 30	2255 244.28	2270 465.43	2285 686.69	2300 908.05	2316 129.52
135 05 00	2255 410.33	2270 631.29	2285 852.35	2301 073.51	2316 294.79
135 07 30	2255 581.38	2270 802.13	2286 022.99	2301 243.95	2316 465.02
135 10 00	2255 757.40	2270 977.95	2286 198.61	2301 419.36	2316 640.22
135 12 30	2255 938.42	2271 158.76	2286 379.20	2301 599.74	2316 820.38
135 15 00	2256 124.41	2271 344.54	2286 564.77	2301 785.09	2317 005.52
135 17 30	2256 315.39	2271 535.31	2286 755.31	2301 975.42	2317 195.62
135 20 00	2256 511.37	2271 731.06	2286 950.84	2302 170.72	2317 390.69
135 22 30	2256 712.32	2271 931.78	2287 151.34	2302 370.99	2317 590.73
135 25 00	2256 918.26	2272 137.50	2287 356.82	2302 576.24	2317 795.74
135 27 30	2257 129.20	2272 348.19	2287 567.28	2302 786.45	2318 005.72
135 30 00	2257 345.11	2272 563.88	2287 782.72	2303 001.65	2318 220.67
135 32 30	2257 566.03	2272 784.54	2288 003.14	2303 221.82	2318 440.59
135 35 00	2257 791.92	2273 010.19	2288 228.54	2303 446.97	2318 665.48
135 37 30	2258 022.81	2273 240.83	2288 458.92	2303 677.10	2318 895.35
135 40 00	2258 258.69	2273 476.46	2288 694.29	2303 912.20	2319 130.18
135 42 30	2258 499.56	2273 717.06	2288 934.63	2304 152.28	2319 370.00
135 45 00	2258 745.43	2273 962.66	2289 179.96	2304 397.33	2319 614.79
135 47 30	2258 996.28	2274 213.24	2289 430.27	2304 647.37	2319 864.55
135 50 00	2259 252.13	2274 468.81	2289 685.57	2304 902.39	2320 119.28
135 52 30	2259 512.97	2274 729.38	2289 945.85	2305 162.39	2320 378.99
135 55 00	2259 778.80	2274 994.93	2290 211.12	2305 427.37	2320 643.68
135 57 30	2260 049.63	2275 265.47	2290 481.37	2305 697.33	2320 913.34
136 00 00	2260 325.46	2275 541.00	2290 756.61	2305 972.27	2321 187.99
136 02 30	2260 606.28	2275 821.53	2291 036.83	2306 252.19	2321 467.60
136 05 00	2260 892.10	2276 107.05	2291 322.04	2306 537.09	2321 752.20
136 07 30	2261 182.92	2276 397.55	2291 612.24	2306 826.98	2322 041.77
136 10 00	2261 478.73	2276 693.05	2291 907.42	2307 121.85	2322 336.32
136 12 30	2261 779.53	2276 993.54	2292 207.60	2307 421.71	2322 635.86
136 15 00	2262 085.34	2277 299.03	2292 512.77	2307 726.55	2322 940.37
136 17 30	2262 396.14	2277 609.51	2292 822.91	2308 036.37	2323 249.87
136 20 00	2262 711.95	2277 924.98	2293 138.06	2308 351.18	2323 564.34
136 22 30	2263 032.75	2278 245.46	2293 458.20	2308 670.98	2323 883.79
136 25 00	2263 358.56	2278 570.93	2293 783.32	2308 995.76	2324 208.24
136 27 30	2263 689.36	2278 901.39	2294 113.44	2309 325.53	2324 537.66
136 30 00	2264 025.17	2279 236.85	2294 448.55	2309 660.29	2324 872.06
136 32 30	2264 365.98	2279 577.30	2294 788.66	2310 000.04	2325 211.45
136 35 00	2264 711.79	2279 922.76	2295 133.75	2310 344.77	2325 555.82
136 37 30	2265 062.60	2280 273.22	2295 483.84	2310 694.50	2325 905.18
136 40 00	2265 418.42	2280 628.66	2295 838.93	2311 049.22	2326 259.52
136 42 30	2265 779.25	2280 989.12	2296 199.01	2311 408.92	2326 618.85
136 45 00	2266 145.07	2281 354.57	2296 564.08	2311 773.61	2326 983.16
136 47 30	2266 515.90	2281 725.02	2296 934.16	2312 143.31	2327 352.47
136 50 00	2266 891.74	2282 100.48	2297 309.22	2312 517.99	2327 726.76
136 52 30	2267 272.58	2282 480.93	2297 689.29	2312 897.66	2328 106.04
136 55 00	2267 658.44	2282 866.39	2298 074.35	2313 282.32	2328 490.30
136 57 30	2268 049.29	2283 256.85	2298 464.41	2313 671.98	2328 879.55
137 00 00	2268 445.16	2283 652.32	2298 859.47	2314 066.63	2329 273.80

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.29	-.35	-.40	-.44	-.48	-.52	-.55	-.58	-.60	-.61	-.62	-.62

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	58 10 00	58 12 30	58 15 00	58 17 30	58 20 00
133 00 00	2814 367.74	2814 216.45	2814 065.00	2813 913.38	2813 761.60
133 02 30	2806 321.50	2806 179.55	2806 037.46	2805 895.20	2805 752.78
133 05 00	2798 275.26	2798 142.67	2798 009.93	2797 877.03	2797 743.96
133 07 30	2790 229.02	2790 105.78	2789 982.39	2789 858.85	2789 735.15
133 10 00	2782 182.77	2782 068.89	2781 954.86	2781 840.67	2781 726.34
133 12 30	2774 136.54	2774 032.01	2773 927.33	2773 822.51	2773 717.53
133 15 00	2766 090.30	2765 995.12	2765 899.81	2765 804.34	2765 708.74
133 17 30	2758 044.07	2757 958.25	2757 872.29	2757 786.19	2757 699.95
133 20 00	2749 997.85	2749 921.39	2749 844.79	2749 768.06	2749 691.18
133 22 30	2741 951.65	2741 884.54	2741 817.31	2741 749.93	2741 682.42
133 25 00	2733 905.45	2733 847.70	2733 789.83	2733 731.82	2733 673.68
133 27 30	2725 859.27	2725 810.89	2725 762.38	2725 713.74	2725 664.97
133 30 00	2717 813.10	2717 774.09	2717 734.94	2717 695.67	2717 656.27
133 32 30	2709 766.97	2709 737.31	2709 707.53	2709 677.63	2709 647.59
133 35 00	2701 720.85	2701 700.56	2701 680.15	2701 659.61	2701 638.95
133 37 30	2693 674.76	2693 663.83	2693 652.78	2693 641.62	2693 630.33
133 40 00	2685 628.70	2685 627.13	2685 625.45	2685 623.65	2685 621.74
133 42 30	2677 582.67	2677 590.47	2677 598.16	2677 605.73	2677 613.19
133 45 00	2669 536.66	2669 553.83	2669 570.89	2669 587.84	2669 604.67
133 47 30	2661 490.69	2661 517.23	2661 543.66	2661 569.98	2661 596.20
133 50 00	2653 444.77	2653 480.67	2653 516.47	2653 552.17	2653 587.76
133 52 30	2645 398.87	2645 444.15	2645 489.32	2645 534.39	2645 579.36
133 55 00	2637 353.02	2637 407.66	2637 462.21	2637 516.66	2637 571.01
133 57 30	2629 307.22	2629 371.23	2629 435.15	2629 498.98	2629 562.71
134 00 00	2621 261.45	2621 334.84	2621 408.14	2621 481.35	2621 554.46
134 02 30	2613 215.73	2613 298.49	2613 381.17	2613 463.76	2613 546.25
134 05 00	2605 170.08	2605 262.21	2605 354.26	2605 446.23	2605 538.11
134 07 30	2597 124.46	2597 225.97	2597 327.40	2597 428.75	2597 530.01
134 10 00	2589 078.90	2589 189.79	2589 300.60	2589 411.33	2589 521.98
134 12 30	2581 033.40	2581 153.67	2581 273.87	2581 393.98	2581 514.01
134 15 00	2572 987.96	2573 117.61	2573 247.18	2573 376.68	2573 506.10
134 17 30	2564 942.58	2565 081.61	2565 220.57	2565 359.45	2565 498.25
134 20 00	2556 897.27	2557 045.68	2557 194.01	2557 342.29	2557 490.48
134 22 30	2548 852.02	2549 009.81	2549 167.53	2549 325.19	2549 482.77
134 25 00	2540 806.83	2540 974.01	2541 141.12	2541 308.17	2541 475.14
134 27 30	2532 761.72	2532 938.28	2533 114.78	2533 291.22	2533 467.59
134 30 00	2524 716.69	2524 902.63	2525 088.52	2525 274.34	2525 460.11
134 32 30	2516 671.73	2516 867.06	2517 062.32	2517 257.54	2517 452.70
134 35 00	2508 626.85	2508 831.56	2509 036.23	2509 240.83	2509 445.39
134 37 30	2500 582.04	2500 796.14	2501 010.20	2501 224.20	2501 438.15
134 40 00	2492 537.32	2492 760.81	2492 984.26	2493 207.65	2493 430.99
134 42 30	2484 492.69	2484 725.57	2484 958.40	2485 191.19	2485 423.94
134 45 00	2476 448.14	2476 690.41	2476 932.64	2477 174.82	2477 416.97
134 47 30	2468 403.68	2468 655.34	2468 906.96	2469 158.54	2469 410.08
134 50 00	2460 359.31	2460 620.37	2460 881.38	2461 142.36	2461 403.31
134 52 30	2452 315.04	2452 585.48	2452 855.90	2453 126.28	2453 396.62
134 55 00	2444 270.86	2444 550.70	2444 830.52	2445 110.30	2445 390.04
134 57 30	2436 226.78	2436 516.02	2436 805.23	2437 094.41	2437 383.56
135 00 00	2428 182.80	2428 481.44	2428 780.05	2429 078.63	2429 377.19
135 02 30	2420 138.93	2420 446.96	2420 754.97	2421 062.96	2421 370.92
135 05 00	2412 095.16	2412 412.59	2412 730.00	2413 047.39	2413 364.76
135 07 30	2404 051.50	2404 378.33	2404 705.14	2405 031.94	2405 358.71
135 10 00	2396 007.95	2396 344.18	2396 680.40	2397 016.60	2397 352.78
135 12 30	2387 964.52	2388 310.15	2388 655.77	2389 001.37	2389 346.96
135 15 00	2379 921.19	2380 276.22	2380 631.25	2380 986.26	2381 341.26
135 17 30	2371 877.99	2372 242.42	2372 606.86	2372 971.28	2373 335.69
135 20 00	2363 834.90	2364 208.74	2364 582.58	2364 956.41	2365 330.23
135 22 30	2355 791.94	2356 175.19	2356 558.43	2356 941.67	2357 324.91
135 25 00	2347 749.10	2348 141.75	2348 534.41	2348 927.06	2349 319.71
135 27 30	2339 706.39	2340 108.45	2340 510.51	2340 912.58	2341 314.64
135 30 00	2331 663.81	2332 075.27	2332 486.75	2332 898.22	2333 309.71

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	58 10 00	58 12 30	58 15 00	58 17 30	58 20 00
133 00 00	2314 104.18	2329 330.39	2344 556.80	2359 783.45	2375 010.32
133 02 30	2314 026.74	2329 252.96	2344 479.38	2359 706.03	2374 932.90
133 05 00	2313 954.24	2329 180.47	2344 406.89	2359 633.54	2374 860.41
133 07 30	2313 886.68	2329 112.91	2344 339.33	2359 565.98	2374 792.85
133 10 00	2313 824.07	2329 050.29	2344 276.71	2359 503.34	2374 730.20
133 12 30	2313 766.39	2328 992.61	2344 219.01	2359 445.65	2374 672.48
133 15 00	2313 713.67	2328 939.86	2344 166.25	2359 392.87	2374 619.69
133 17 30	2313 665.88	2328 892.06	2344 118.44	2359 345.03	2374 571.83
133 20 00	2313 623.04	2328 849.20	2344 075.55	2359 302.12	2374 528.89
133 22 30	2313 585.14	2328 811.27	2344 037.60	2359 264.14	2374 490.89
133 25 00	2313 552.18	2328 778.29	2344 004.58	2359 231.10	2374 457.80
133 27 30	2313 524.17	2328 750.25	2343 976.51	2359 202.98	2374 429.65
133 30 00	2313 501.11	2328 727.15	2343 953.37	2359 179.79	2374 406.42
133 32 30	2313 482.99	2328 708.99	2343 935.16	2359 161.55	2374 388.13
133 35 00	2313 469.83	2328 695.78	2343 921.90	2359 148.23	2374 374.76
133 37 30	2313 461.60	2328 687.50	2343 913.58	2359 139.85	2374 366.32
133 40 00	2313 458.33	2328 684.17	2343 910.19	2359 136.41	2374 362.82
133 42 30	2313 460.01	2328 685.79	2343 911.75	2359 137.90	2374 364.25
133 45 00	2313 466.63	2328 692.35	2343 918.24	2359 144.33	2374 370.61
133 47 30	2313 478.20	2328 703.85	2343 929.68	2359 155.69	2374 381.90
133 50 00	2313 494.73	2328 720.31	2343 946.06	2359 171.99	2374 398.12
133 52 30	2313 516.20	2328 741.70	2343 967.37	2359 193.23	2374 419.28
133 55 00	2313 542.62	2328 768.05	2343 993.64	2359 219.41	2374 445.37
133 57 30	2313 574.00	2328 799.34	2344 024.84	2359 250.53	2374 476.39
134 00 00	2313 610.33	2328 835.58	2344 060.99	2359 286.58	2374 512.35
134 02 30	2313 651.61	2328 876.77	2344 102.08	2359 327.58	2374 553.25
134 05 00	2313 697.85	2328 922.90	2344 148.12	2359 373.52	2374 599.08
134 07 30	2313 749.04	2328 973.99	2344 199.10	2359 424.39	2374 649.85
134 10 00	2313 805.18	2329 030.03	2344 255.02	2359 480.21	2374 705.55
134 12 30	2313 866.28	2329 091.01	2344 315.90	2359 540.96	2374 766.19
134 15 00	2313 932.33	2329 156.95	2344 381.72	2359 606.66	2374 831.77
134 17 30	2314 003.34	2329 227.84	2344 452.49	2359 677.31	2374 902.29
134 20 00	2314 079.31	2329 303.68	2344 528.20	2359 752.90	2374 977.75
134 22 30	2314 160.23	2329 384.48	2344 608.86	2359 833.42	2375 058.14
134 25 00	2314 246.11	2329 470.22	2344 694.48	2359 918.90	2375 143.48
134 27 30	2314 336.95	2329 560.92	2344 785.04	2360 009.32	2375 233.75
134 30 00	2314 432.74	2329 656.57	2344 880.54	2360 104.68	2375 328.97
134 32 30	2314 533.49	2329 757.18	2344 981.01	2360 204.99	2375 429.12
134 35 00	2314 639.21	2329 862.74	2345 086.42	2360 310.25	2375 534.23
134 37 30	2314 749.88	2329 973.27	2345 196.78	2360 420.45	2375 644.26
134 40 00	2314 865.51	2330 088.74	2345 312.09	2360 535.60	2375 759.25
134 42 30	2314 986.10	2330 209.17	2345 432.36	2360 655.70	2375 879.18
134 45 00	2315 111.66	2330 334.56	2345 557.57	2360 780.74	2376 004.05
134 47 30	2315 242.18	2330 464.90	2345 687.74	2360 910.74	2376 133.87
134 50 00	2315 377.66	2330 600.20	2345 822.87	2361 045.68	2376 268.63
134 52 30	2315 518.11	2330 740.47	2345 962.95	2361 185.57	2376 408.33
134 55 00	2315 663.51	2330 885.69	2346 107.98	2361 330.42	2376 552.99
134 57 30	2315 813.89	2331 035.87	2346 257.97	2361 480.21	2376 702.58
135 00 00	2315 969.22	2331 191.01	2346 412.92	2361 634.96	2376 857.13
135 02 30	2316 129.52	2331 351.11	2346 572.82	2361 794.66	2377 016.62
135 05 00	2316 294.79	2331 516.18	2346 737.67	2361 959.30	2377 181.06
135 07 30	2316 465.02	2331 686.20	2346 907.49	2362 128.91	2377 350.45
135 10 00	2316 640.22	2331 861.19	2347 082.26	2362 303.46	2377 524.79
135 12 30	2316 820.38	2332 041.14	2347 261.99	2362 482.98	2377 704.08
135 15 00	2317 005.52	2332 226.05	2347 446.68	2362 667.44	2377 888.31
135 17 30	2317 195.62	2332 415.93	2347 636.33	2362 856.86	2378 077.50
135 20 00	2317 390.69	2332 610.76	2347 830.94	2363 051.23	2378 271.64
135 22 30	2317 590.73	2332 810.57	2348 030.51	2363 250.56	2378 470.73
135 25 00	2317 795.74	2333 015.34	2348 235.03	2363 454.85	2378 674.77
135 27 30	2318 005.72	2333 225.08	2348 444.53	2363 664.09	2378 883.76
135 30 00	2318 220.67	2333 439.78	2348 658.98	2363 878.29	2379 097.71

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.29	-.35	-.40	-.44	-.48	-.52	-.55	-.58	-.60	-.61	-.62	-.62

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	58 10 00	58 12 30	58 15 00	58 17 30	58 20 00
135 30 00	2331 663.81	2332 075.27	2332 486.75	2332 898.22	2333 309.71
135 32 30	2323 621.36	2324 042.24	2324 463.12	2324 884.01	2325 304.91
135 35 00	2315 579.04	2316 009.32	2316 439.63	2316 869.93	2317 300.25
135 37 30	2307 536.86	2307 976.56	2308 416.27	2308 856.00	2309 295.73
135 40 00	2299 494.82	2299 943.93	2300 393.06	2300 842.20	2301 291.35
135 42 30	2291 452.92	2291 911.44	2292 369.98	2292 828.54	2293 287.12
135 45 00	2283 411.16	2283 879.10	2284 347.06	2284 815.04	2285 283.03
135 47 30	2275 369.55	2275 846.90	2276 324.28	2276 801.68	2277 279.10
135 50 00	2267 328.09	2267 814.85	2268 301.65	2268 788.47	2269 275.31
135 52 30	2259 286.77	2259 782.95	2260 279.17	2260 775.41	2261 271.68
135 55 00	2251 245.62	2251 751.21	2252 256.85	2252 762.52	2253 268.21
135 57 30	2243 204.61	2243 719.63	2244 234.68	2244 749.78	2245 264.90
136 00 00	2235 163.76	2235 688.20	2236 212.68	2236 737.19	2237 261.74
136 02 30	2227 123.08	2227 656.94	2228 190.84	2228 724.78	2229 258.76
136 05 00	2219 082.55	2219 625.83	2220 169.16	2220 712.53	2221 255.93
136 07 30	2211 042.19	2211 594.89	2212 147.64	2212 700.44	2213 253.28
136 10 00	2203 002.00	2203 564.13	2204 126.31	2204 688.53	2205 250.80
136 12 30	2194 961.98	2195 533.53	2196 105.14	2196 676.79	2197 248.49
136 15 00	2186 922.12	2187 503.10	2188 084.13	2188 665.22	2189 246.35
136 17 30	2178 882.45	2179 472.86	2180 063.32	2180 653.83	2181 244.40
136 20 00	2170 842.95	2171 442.78	2172 042.67	2172 642.63	2173 242.63
136 22 30	2162 803.62	2163 412.89	2164 022.21	2164 631.59	2165 241.03
136 25 00	2154 764.49	2155 383.18	2156 001.94	2156 620.76	2157 239.63
136 27 30	2146 725.53	2147 353.66	2147 981.85	2148 610.10	2149 238.41
136 30 00	2138 686.76	2139 324.32	2139 961.94	2140 599.63	2141 237.38
136 32 30	2130 648.19	2131 295.18	2131 942.23	2132 589.36	2133 236.55
136 35 00	2122 609.80	2123 266.22	2123 922.71	2124 579.28	2125 235.91
136 37 30	2114 571.60	2115 237.46	2115 903.39	2116 569.39	2117 235.47
136 40 00	2106 533.61	2107 208.90	2107 884.27	2108 559.71	2109 235.23
136 42 30	2098 495.81	2099 180.54	2099 865.34	2100 550.23	2101 235.19
136 45 00	2090 458.21	2091 152.37	2091 846.62	2092 540.95	2093 235.35
136 47 30	2082 420.82	2083 124.42	2083 828.11	2084 531.88	2085 235.73
136 50 00	2074 383.63	2075 096.67	2075 809.80	2076 523.01	2077 236.31
136 52 30	2066 346.65	2067 069.13	2067 791.70	2068 514.37	2069 237.11
136 55 00	2058 309.88	2059 041.80	2059 773.82	2060 505.92	2061 238.12
136 57 30	2050 273.32	2051 014.68	2051 756.14	2052 497.70	2053 239.34
137 00 00	2042 236.98	2042 987.78	2043 738.69	2044 489.70	2045 240.79
137 02 30	2034 200.85	2034 961.10	2035 721.46	2036 481.91	2037 242.45
137 05 00	2026 164.94	2026 934.65	2027 704.45	2028 474.35	2029 244.35
137 07 30	2018 129.27	2018 908.41	2019 687.67	2020 467.02	2021 246.47
137 10 00	2010 093.81	2010 882.41	2011 671.10	2012 459.91	2013 248.81
137 12 30	2002 058.59	2002 856.62	2003 654.77	2004 453.04	2005 251.39
137 15 00	1994 023.59	1994 831.08	1995 638.68	1996 446.39	1997 254.21
137 17 30	1985 988.82	1986 805.76	1987 622.82	1988 439.98	1989 257.26
137 20 00	1977 954.30	1978 780.69	1979 607.20	1980 433.81	1981 260.55
137 22 30	1969 920.00	1970 755.85	1971 591.81	1972 427.89	1973 264.08
137 25 00	1961 885.95	1962 731.25	1963 576.66	1964 422.20	1965 267.85
137 27 30	1953 852.14	1954 706.89	1955 561.76	1956 416.76	1957 271.87
137 30 00	1945 818.58	1946 682.79	1947 547.12	1948 411.57	1949 276.14
137 32 30	1937 785.26	1938 658.92	1939 532.71	1940 406.62	1941 280.66
137 35 00	1929 752.20	1930 635.32	1931 518.56	1932 401.94	1933 285.44
137 37 30	1921 719.38	1922 611.96	1923 504.67	1924 397.51	1925 290.47
137 40 00	1913 686.83	1914 588.86	1915 491.03	1916 393.33	1917 295.76
137 42 30	1905 654.52	1906 566.02	1907 477.65	1908 389.41	1909 301.31
137 45 00	1897 622.48	1898 543.44	1899 464.53	1900 385.76	1901 307.12
137 47 30	1889 590.70	1890 521.12	1891 451.68	1892 382.37	1893 313.20
137 50 00	1881 559.18	1882 499.07	1883 439.08	1884 379.25	1885 319.56
137 52 30	1873 527.94	1874 477.28	1875 426.77	1876 376.40	1877 326.18
137 55 00	1865 496.96	1866 455.77	1867 414.72	1868 373.83	1869 333.07
137 57 30	1857 466.25	1858 434.52	1859 402.95	1860 371.52	1861 340.23
138 00 00	1849 435.83	1850 413.57	1851 391.46	1852 369.50	1853 347.69

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.03	-.03

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	58 10 00	58 12 30	58 15 00	58 17 30	58 20 00
135 30 00	2318 220.67	2333 439.78	2348 658.98	2363 878.29	2379 097.71
135 32 30	2318 440.59	2333 659.45	2348 878.40	2364 097.45	2379 316.61
135 35 00	2318 665.48	2333 884.09	2349 102.77	2364 321.57	2379 540.46
135 37 30	2318 895.35	2334 113.69	2349 332.12	2364 550.64	2379 769.27
135 40 00	2319 130.18	2334 348.26	2349 566.42	2364 784.68	2380 003.03
135 42 30	2319 370.00	2334 587.81	2349 805.69	2365 023.67	2380 241.75
135 45 00	2319 614.79	2334 832.32	2350 049.93	2365 267.63	2380 485.43
135 47 30	2319 864.55	2335 081.80	2350 299.12	2365 516.55	2380 734.06
135 50 00	2320 119.28	2335 336.25	2350 553.29	2365 770.42	2380 987.64
135 52 30	2320 378.99	2335 595.67	2350 812.42	2366 029.26	2381 246.19
135 55 00	2320 643.68	2335 860.07	2351 076.52	2366 293.06	2381 509.69
135 57 30	2320 913.34	2336 129.44	2351 345.59	2366 561.83	2381 778.15
136 00 00	2321 187.99	2336 403.77	2351 619.62	2366 835.56	2382 051.57
136 02 30	2321 467.60	2336 683.08	2351 898.62	2367 114.25	2382 329.95
136 05 00	2321 752.20	2336 967.37	2352 182.60	2367 397.91	2382 613.30
136 07 30	2322 041.77	2337 256.62	2352 471.54	2367 686.53	2382 901.59
136 10 00	2322 336.32	2337 550.86	2352 765.45	2367 980.12	2383 194.86
136 12 30	2322 635.86	2337 850.07	2353 064.33	2368 278.67	2383 493.07
136 15 00	2322 940.37	2338 154.25	2353 368.18	2368 582.19	2383 796.26
136 17 30	2323 249.87	2338 463.42	2353 677.01	2368 890.68	2384 104.41
136 20 00	2323 564.34	2338 777.55	2353 990.81	2369 204.13	2384 417.52
136 22 30	2323 883.79	2339 096.66	2354 309.58	2369 522.55	2384 735.59
136 25 00	2324 208.24	2339 420.75	2354 633.32	2369 845.94	2385 058.63
136 27 30	2324 537.66	2339 749.83	2354 962.04	2370 174.30	2385 386.63
136 30 00	2324 872.06	2340 083.88	2355 295.73	2370 507.63	2385 719.59
136 32 30	2325 211.45	2340 422.90	2355 634.39	2370 845.93	2386 057.52
136 35 00	2325 555.82	2340 766.91	2355 978.03	2371 189.20	2386 400.42
136 37 30	2325 905.18	2341 115.90	2356 326.65	2371 537.44	2386 748.29
136 40 00	2326 259.52	2341 469.87	2356 680.23	2371 890.65	2387 101.12
136 42 30	2326 618.85	2341 828.81	2357 038.80	2372 248.83	2387 458.91
136 45 00	2326 983.16	2342 192.74	2357 402.35	2372 612.00	2387 821.68
136 47 30	2327 352.47	2342 561.66	2357 770.87	2372 980.13	2388 189.42
136 50 00	2327 726.76	2342 935.56	2358 144.37	2373 353.23	2388 562.12
136 52 30	2328 106.04	2343 314.44	2358 522.86	2373 731.31	2388 939.79
136 55 00	2328 490.30	2343 698.30	2358 906.31	2374 114.36	2389 322.43
136 57 30	2328 879.55	2344 087.15	2359 294.75	2374 502.38	2389 710.05
137 00 00	2329 273.80	2344 480.98	2359 688.16	2374 895.38	2390 102.63
137 02 30	2329 673.03	2344 879.80	2360 086.57	2375 293.37	2390 500.19
137 05 00	2330 077.26	2345 283.60	2360 489.95	2375 696.32	2390 902.71
137 07 30	2330 486.47	2345 692.39	2360 898.32	2376 104.26	2391 310.22
137 10 00	2330 900.68	2346 106.17	2361 311.66	2376 517.16	2391 722.69
137 12 30	2331 319.88	2346 524.93	2361 729.98	2376 935.05	2392 140.14
137 15 00	2331 744.07	2346 948.68	2362 153.29	2377 357.92	2392 562.56
137 17 30	2332 173.25	2347 377.43	2362 581.59	2377 785.77	2392 989.95
137 20 00	2332 607.43	2347 811.16	2363 014.87	2378 218.59	2393 422.32
137 22 30	2333 046.60	2348 249.88	2363 453.13	2378 656.40	2393 859.67
137 25 00	2333 490.77	2348 693.58	2363 896.38	2379 099.18	2394 301.99
137 27 30	2333 939.93	2349 142.28	2364 344.61	2379 546.95	2394 749.29
137 30 00	2334 394.09	2349 595.97	2364 797.84	2379 999.70	2395 201.56
137 32 30	2334 853.24	2350 054.65	2365 256.04	2380 457.43	2395 658.81
137 35 00	2335 317.39	2350 518.33	2365 719.24	2380 920.15	2396 121.04
137 37 30	2335 786.54	2350 986.99	2366 187.42	2381 387.84	2396 588.25
137 40 00	2336 260.69	2351 460.65	2366 660.59	2381 860.52	2397 060.44
137 42 30	2336 739.83	2351 939.31	2367 138.75	2382 338.18	2397 537.60
137 45 00	2337 223.97	2352 422.95	2367 621.90	2382 820.83	2398 019.75
137 47 30	2337 713.11	2352 911.59	2368 110.04	2383 308.47	2398 506.88
137 50 00	2338 207.25	2353 405.23	2368 603.16	2383 801.09	2398 998.98
137 52 30	2338 706.39	2353 903.86	2369 101.28	2384 298.69	2399 496.07
137 55 00	2339 210.53	2354 407.49	2369 604.40	2384 801.29	2399 998.15
137 57 30	2339 719.67	2354 916.11	2370 112.50	2385 308.86	2400 505.20
138 00 00	2340 233.82	2355 429.73	2370 625.59	2385 821.43	2401 017.24

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.29	-.35	-.40	-.44	-.48	-.52	-.55	-.58	-.60	-.61	-.62	-.62

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	58 20 00	58 22 30	58 25 00	58 27 30	58 30 00
133 00 00	2813 761.60	2813 609.64	2813 457.52	2813 305.21	2813 152.73
133 02 30	2805 752.78	2805 610.19	2805 467.43	2805 324.49	2805 181.37
133 05 00	2797 743.96	2797 610.74	2797 477.34	2797 343.78	2797 210.04
133 07 30	2789 735.15	2789 611.28	2789 487.26	2789 363.06	2789 238.69
133 10 00	2781 726.34	2781 611.84	2781 497.18	2781 382.36	2781 267.36
133 12 30	2773 717.53	2773 612.41	2773 507.11	2773 401.66	2773 296.04
133 15 00	2765 708.74	2765 612.97	2765 517.06	2765 420.98	2765 324.73
133 17 30	2757 699.95	2757 613.55	2757 527.00	2757 440.30	2757 353.43
133 20 00	2749 691.18	2749 614.15	2749 536.98	2749 459.65	2749 382.16
133 22 30	2741 682.42	2741 614.77	2741 546.96	2741 479.01	2741 410.90
133 25 00	2733 673.68	2733 615.40	2733 556.97	2733 498.39	2733 439.66
133 27 30	2725 664.97	2725 616.05	2725 567.00	2725 517.80	2725 468.45
133 30 00	2717 656.27	2717 616.73	2717 577.05	2717 537.23	2717 497.26
133 32 30	2709 647.59	2709 617.43	2709 587.13	2709 556.68	2709 526.10
133 35 00	2701 638.95	2701 618.16	2701 597.23	2701 576.18	2701 554.97
133 37 30	2693 630.33	2693 618.91	2693 607.37	2693 595.69	2693 583.87
133 40 00	2685 621.74	2685 619.70	2685 617.54	2685 615.25	2685 612.81
133 42 30	2677 613.19	2677 620.53	2677 627.75	2677 634.84	2677 641.79
133 45 00	2669 604.67	2669 621.39	2669 637.99	2669 654.46	2669 670.80
133 47 30	2661 596.20	2661 622.29	2661 648.27	2661 674.13	2661 699.86
133 50 00	2653 587.76	2653 623.24	2653 658.60	2653 693.84	2653 728.96
133 52 30	2645 579.36	2645 624.23	2645 668.97	2645 713.60	2645 758.11
133 55 00	2637 571.01	2637 625.25	2637 679.38	2637 733.40	2637 787.30
133 57 30	2629 562.71	2629 626.34	2629 689.86	2629 753.26	2629 816.56
134 00 00	2621 554.46	2621 627.47	2621 700.37	2621 773.17	2621 845.86
134 02 30	2613 546.25	2613 628.64	2613 710.94	2613 793.13	2613 875.21
134 05 00	2605 538.11	2605 629.89	2605 721.57	2605 813.15	2605 904.63
134 07 30	2597 530.01	2597 631.18	2597 732.26	2597 833.23	2597 934.10
134 10 00	2589 521.98	2589 632.54	2589 743.00	2589 853.37	2589 963.63
134 12 30	2581 514.01	2581 633.96	2581 753.81	2581 873.57	2581 993.23
134 15 00	2573 506.10	2573 635.43	2573 764.69	2573 893.84	2574 022.90
134 17 30	2565 498.25	2565 636.98	2565 775.62	2565 914.18	2566 052.64
134 20 00	2557 490.48	2557 638.60	2557 786.64	2557 934.59	2558 082.45
134 22 30	2549 482.77	2549 640.29	2549 797.72	2549 955.07	2550 112.33
134 25 00	2541 475.14	2541 642.05	2541 808.88	2541 975.62	2542 142.28
134 27 30	2533 467.59	2533 643.89	2533 820.12	2533 996.26	2534 172.33
134 30 00	2525 460.11	2525 645.80	2525 831.42	2526 016.98	2526 202.44
134 32 30	2517 452.70	2517 647.80	2517 842.82	2518 037.77	2518 232.64
134 35 00	2509 445.39	2509 649.87	2509 854.30	2510 058.65	2510 262.94
134 37 30	2501 438.15	2501 652.03	2501 865.87	2502 079.62	2502 293.31
134 40 00	2493 430.99	2493 654.28	2493 877.51	2494 100.68	2494 323.77
134 42 30	2485 423.94	2485 656.62	2485 889.26	2486 121.82	2486 354.33
134 45 00	2477 416.97	2477 659.05	2477 901.09	2478 143.07	2478 384.98
134 47 30	2469 410.08	2469 661.58	2469 913.02	2470 164.40	2470 415.73
134 50 00	2461 403.31	2461 664.20	2461 925.05	2462 185.84	2462 446.58
134 52 30	2453 396.62	2453 666.92	2453 937.18	2454 207.38	2454 477.53
134 55 00	2445 390.04	2445 669.74	2445 949.41	2446 229.02	2446 508.58
134 57 30	2437 383.56	2437 672.67	2437 961.74	2438 250.77	2438 539.74
135 00 00	2429 377.19	2429 675.70	2429 974.18	2430 272.62	2430 571.01
135 02 30	2421 370.92	2421 678.84	2421 986.73	2422 294.58	2422 602.39
135 05 00	2413 364.76	2413 682.09	2413 999.39	2414 316.66	2414 633.88
135 07 30	2405 358.71	2405 685.45	2406 012.17	2406 338.85	2406 665.49
135 10 00	2397 352.78	2397 688.93	2398 025.06	2398 361.16	2398 697.22
135 12 30	2389 346.96	2389 692.53	2390 038.07	2390 383.59	2390 729.07
135 15 00	2381 341.26	2381 696.24	2382 051.20	2382 406.13	2382 761.04
135 17 30	2373 335.69	2373 700.08	2374 064.46	2374 428.81	2374 793.13
135 20 00	2365 330.23	2365 704.04	2366 077.84	2366 451.61	2366 825.35
135 22 30	2357 324.91	2357 708.13	2358 091.34	2358 474.54	2358 857.71
135 25 00	2349 319.71	2349 712.35	2350 104.98	2350 497.60	2350 890.19
135 27 30	2341 314.64	2341 716.70	2342 118.75	2342 520.79	2342 922.81
135 30 00	2333 309.71	2333 721.19	2334 132.66	2334 544.12	2334 955.56

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	58 20 00	58 22 30	58 25 00	58 27 30	58 30 00
133 00 00	2375 010.32	2390 237.39	2405 464.69	2420 692.23	2435 919.99
133 02 30	2374 932.90	2390 159.98	2405 387.28	2420 614.81	2435 842.58
133 05 00	2374 860.41	2390 087.49	2405 314.79	2420 542.31	2435 770.07
133 07 30	2374 792.85	2390 019.91	2405 247.21	2420 474.72	2435 702.46
133 10 00	2374 730.20	2389 957.26	2405 184.54	2420 412.04	2435 639.76
133 12 30	2374 672.48	2389 899.53	2405 126.79	2420 354.27	2435 581.98
133 15 00	2374 619.69	2389 846.72	2405 073.96	2420 301.42	2435 529.10
133 17 30	2374 571.83	2389 798.83	2405 026.05	2420 253.48	2435 481.13
133 20 00	2374 528.89	2389 755.87	2404 983.05	2420 210.45	2435 438.07
133 22 30	2374 490.89	2389 717.82	2404 944.98	2420 172.34	2435 399.92
133 25 00	2374 457.80	2389 684.70	2404 911.82	2420 139.14	2435 366.68
133 27 30	2374 429.65	2389 656.51	2404 883.58	2420 110.86	2435 338.35
133 30 00	2374 406.42	2389 633.24	2404 860.27	2420 087.49	2435 314.94
133 32 30	2374 388.13	2389 614.90	2404 841.87	2420 069.04	2435 296.43
133 35 00	2374 374.76	2389 601.47	2404 828.40	2420 055.51	2435 282.83
133 37 30	2374 366.32	2389 592.98	2404 819.84	2420 046.90	2435 274.16
133 40 00	2374 362.82	2389 589.41	2404 816.21	2420 043.20	2435 270.39
133 42 30	2374 364.25	2389 590.78	2404 817.50	2420 044.42	2435 271.54
133 45 00	2374 370.61	2389 597.06	2404 823.71	2420 050.56	2435 277.61
133 47 30	2374 381.90	2389 608.28	2404 834.85	2420 061.62	2435 288.58
133 50 00	2374 398.12	2389 624.42	2404 850.91	2420 077.59	2435 304.47
133 52 30	2374 419.28	2389 645.49	2404 871.90	2420 098.49	2435 325.28
133 55 00	2374 445.37	2389 671.50	2404 897.81	2420 124.31	2435 351.01
133 57 30	2374 476.39	2389 702.43	2404 928.65	2420 155.05	2435 381.65
134 00 00	2374 512.35	2389 738.28	2404 964.42	2420 190.72	2435 417.21
134 02 30	2374 553.25	2389 779.08	2405 005.10	2420 231.30	2435 457.69
134 05 00	2374 599.08	2389 824.81	2405 050.72	2420 276.81	2435 503.08
134 07 30	2374 649.85	2389 875.47	2405 101.27	2420 327.24	2435 553.40
134 10 00	2374 705.55	2389 931.05	2405 156.74	2420 382.59	2435 608.63
134 12 30	2374 766.19	2389 991.57	2405 217.14	2420 442.87	2435 668.78
134 15 00	2374 831.77	2390 057.03	2405 282.47	2420 508.07	2435 733.86
134 17 30	2374 902.29	2390 127.42	2405 352.73	2420 578.20	2435 803.85
134 20 00	2374 977.75	2390 202.75	2405 427.93	2420 653.26	2435 878.77
134 22 30	2375 058.14	2390 283.00	2405 508.04	2420 733.24	2435 958.61
134 25 00	2375 143.48	2390 368.20	2405 593.09	2420 818.15	2436 043.37
134 27 30	2375 233.75	2390 458.33	2405 683.07	2420 907.98	2436 133.05
134 30 00	2375 328.97	2390 553.40	2405 777.99	2421 002.74	2436 227.66
134 32 30	2375 429.12	2390 653.40	2405 877.84	2421 102.42	2436 327.18
134 35 00	2375 534.23	2390 758.34	2405 982.62	2421 207.04	2436 431.64
134 37 30	2375 644.26	2390 868.22	2406 092.33	2421 316.59	2436 541.02
134 40 00	2375 759.25	2390 983.04	2406 206.98	2421 431.07	2436 655.32
134 42 30	2375 879.18	2391 102.79	2406 326.56	2421 550.48	2436 774.55
134 45 00	2376 004.05	2391 227.49	2406 451.08	2421 674.82	2436 898.71
134 47 30	2376 133.87	2391 357.12	2406 580.53	2421 804.08	2437 027.79
134 50 00	2376 268.63	2391 491.70	2406 714.92	2421 938.28	2437 161.80
134 52 30	2376 408.33	2391 631.21	2406 854.24	2422 077.41	2437 300.73
134 55 00	2376 552.99	2391 775.68	2406 998.51	2422 221.48	2437 444.60
134 57 30	2376 702.58	2391 925.08	2407 147.71	2422 370.48	2437 593.39
135 00 00	2376 857.13	2392 079.42	2407 301.85	2422 524.41	2437 747.11
135 02 30	2377 016.62	2392 238.71	2407 460.92	2422 683.27	2437 905.76
135 05 00	2377 181.06	2392 402.93	2407 624.94	2422 847.07	2438 069.35
135 07 30	2377 350.45	2392 572.10	2407 793.89	2423 015.81	2438 237.86
135 10 00	2377 524.79	2392 746.22	2407 967.79	2423 189.47	2438 411.30
135 12 30	2377 704.08	2392 925.28	2408 146.62	2423 368.08	2438 589.68
135 15 00	2377 888.31	2393 109.29	2408 330.40	2423 551.63	2438 773.98
135 17 30	2378 077.50	2393 298.24	2408 519.12	2423 740.10	2438 961.22
135 20 00	2378 271.64	2393 492.15	2408 712.77	2423 933.51	2439 154.39
135 22 30	2378 470.73	2393 690.99	2408 911.38	2424 131.87	2439 352.50
135 25 00	2378 674.77	2393 894.79	2409 114.92	2424 335.17	2439 555.53
135 27 30	2378 883.76	2394 103.53	2409 323.41	2424 543.40	2439 763.51
135 30 00	2379 097.71	2394 317.22	2409 536.84	2424 756.57	2439 976.42

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.29	-.35	-.40	-.44	-.48	-.52	-.55	-.58	-.60	-.61	-.62	-.62

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	58 20 00	58 22 30	58 25 00	58 27 30	58 30 00
135 30 00	2333 309.71	2333 721.19	2334 132.66	2334 544.12	2334 955.56
135 32 30	2325 304.91	2325 725.81	2326 146.70	2326 567.59	2326 988.47
135 35 00	2317 300.25	2317 730.56	2318 160.89	2318 591.19	2319 021.50
135 37 30	2309 295.73	2309 735.47	2310 175.21	2310 614.95	2311 054.68
135 40 00	2301 291.35	2301 740.52	2302 189.68	2302 638.85	2303 088.01
135 42 30	2293 287.12	2293 745.70	2294 204.30	2294 662.89	2295 121.48
135 45 00	2285 283.03	2285 751.04	2286 219.06	2286 687.09	2287 155.11
135 47 30	2277 279.10	2277 756.53	2278 233.98	2278 711.43	2279 188.89
135 50 00	2269 275.31	2269 762.17	2270 249.05	2270 735.93	2271 222.83
135 52 30	2261 271.68	2261 767.97	2262 264.27	2262 760.59	2263 256.92
135 55 00	2253 268.21	2253 773.92	2254 279.66	2254 785.41	2255 291.18
135 57 30	2245 264.90	2245 780.04	2246 295.20	2246 810.39	2247 325.59
136 00 00	2237 261.74	2237 786.32	2238 310.91	2238 835.54	2239 360.17
136 02 30	2229 258.76	2229 792.76	2230 326.79	2230 860.85	2231 394.93
136 05 00	2221 255.93	2221 799.37	2222 342.84	2222 886.33	2223 429.84
136 07 30	2213 253.28	2213 806.15	2214 359.05	2214 911.98	2215 464.93
136 10 00	2205 250.80	2205 813.10	2206 375.44	2206 937.81	2207 500.21
136 12 30	2197 248.49	2197 820.23	2198 392.00	2198 963.81	2199 535.65
136 15 00	2189 246.35	2189 827.53	2190 408.74	2190 989.99	2191 571.27
136 17 30	2181 244.40	2181 835.01	2182 425.67	2183 016.36	2183 607.08
136 20 00	2173 242.63	2173 842.67	2174 442.77	2175 042.90	2175 643.07
136 22 30	2165 241.03	2165 850.52	2166 460.06	2167 069.63	2167 679.25
136 25 00	2157 239.63	2157 858.56	2158 477.53	2159 096.55	2159 715.62
136 27 30	2149 238.41	2149 866.78	2150 495.20	2151 123.67	2151 752.18
136 30 00	2141 237.38	2141 875.19	2142 513.06	2143 150.97	2143 788.93
136 32 30	2133 236.55	2133 883.81	2134 531.11	2135 178.47	2135 825.89
136 35 00	2125 235.91	2125 892.61	2126 549.36	2127 206.17	2127 863.03
136 37 30	2117 235.47	2117 901.60	2118 567.81	2119 234.07	2119 900.38
136 40 00	2109 235.23	2109 910.82	2110 586.46	2111 262.17	2111 937.94
136 42 30	2101 235.19	2101 920.22	2102 605.32	2103 290.48	2103 975.70
136 45 00	2093 235.35	2093 929.83	2094 624.38	2095 318.99	2096 013.66
136 47 30	2085 235.73	2085 939.65	2086 643.65	2087 347.72	2088 051.84
136 50 00	2077 236.31	2077 949.69	2078 663.14	2079 376.65	2080 090.23
136 52 30	2069 237.11	2069 959.93	2070 682.83	2071 405.81	2072 128.85
136 55 00	2061 238.12	2061 970.39	2062 702.74	2063 435.17	2064 167.68
136 57 30	2053 239.34	2053 981.07	2054 722.88	2055 464.76	2056 206.71
137 00 00	2045 240.79	2045 991.97	2046 743.23	2047 494.58	2048 246.00
137 02 30	2037 242.45	2038 003.09	2038 763.81	2039 524.61	2040 285.49
137 05 00	2029 244.35	2030 014.43	2030 784.61	2031 554.87	2032 325.21
137 07 30	2021 246.47	2022 026.01	2022 805.65	2023 585.37	2024 365.17
137 10 00	2013 248.81	2014 037.81	2014 826.91	2015 616.09	2016 405.35
137 12 30	2005 251.39	2006 049.85	2006 848.40	2007 647.04	2008 445.78
137 15 00	1997 254.21	1998 062.13	1998 870.14	1999 678.24	2000 486.44
137 17 30	1989 257.26	1990 074.64	1990 892.11	1991 709.68	1992 527.34
137 20 00	1981 260.55	1982 087.38	1982 914.32	1983 741.35	1984 568.48
137 22 30	1973 264.08	1974 100.38	1974 936.78	1975 773.28	1976 609.88
137 25 00	1965 267.85	1966 113.61	1966 959.47	1967 805.44	1968 651.51
137 27 30	1957 271.87	1958 127.09	1958 982.43	1959 837.86	1960 693.40
137 30 00	1949 276.14	1950 140.83	1951 005.63	1951 870.53	1952 735.54
137 32 30	1941 280.66	1942 154.81	1943 029.08	1943 903.45	1944 777.94
137 35 00	1933 285.44	1934 169.05	1935 052.79	1935 936.63	1936 820.59
137 37 30	1925 290.47	1926 183.56	1927 076.76	1927 970.07	1928 863.50
137 40 00	1917 295.76	1918 198.31	1919 100.98	1920 003.77	1920 906.67
137 42 30	1909 301.31	1910 213.33	1911 125.47	1912 037.73	1912 950.11
137 45 00	1901 307.12	1902 228.62	1903 150.24	1904 071.97	1904 993.83
137 47 30	1893 313.20	1894 244.16	1895 175.26	1896 106.47	1897 037.80
137 50 00	1885 319.56	1886 259.98	1887 200.55	1888 141.24	1889 082.05
137 52 30	1877 326.18	1878 276.08	1879 226.12	1880 176.29	1881 126.58
137 55 00	1869 333.07	1870 292.45	1871 251.96	1872 211.60	1873 171.37
137 57 30	1861 340.23	1862 309.09	1863 278.08	1864 247.20	1865 216.45
138 00 00	1853 347.69	1854 326.02	1855 304.48	1856 283.09	1857 261.82

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.03	-.03

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	58 20 00	58 22 30	58 25 00	58 27 30	58 30 00
135 30 00	2379 097.71	2394 317.22	2409 536.84	2424 756.57	2439 976.42
135 32 30	2379 316.61	2394 535.86	2409 755.21	2424 974.68	2440 194.26
135 35 00	2379 540.46	2394 759.45	2409 978.54	2425 197.73	2440 417.04
135 37 30	2379 769.27	2394 987.98	2410 206.80	2425 425.72	2440 644.76
135 40 00	2380 003.03	2395 221.47	2410 440.02	2425 658.66	2440 877.41
135 42 30	2380 241.75	2395 459.91	2410 678.17	2425 896.53	2441 115.00
135 45 00	2380 485.43	2395 703.30	2410 921.28	2426 139.35	2441 357.53
135 47 30	2380 734.06	2395 951.65	2411 169.33	2426 387.11	2441 605.00
135 50 00	2380 987.64	2396 204.94	2411 422.33	2426 639.81	2441 857.40
135 52 30	2381 246.19	2396 463.19	2411 680.28	2426 897.47	2442 114.74
135 55 00	2381 509.69	2396 726.39	2411 943.18	2427 160.06	2442 377.03
135 57 30	2381 778.15	2396 994.55	2412 211.03	2427 427.59	2442 644.25
136 00 00	2382 051.57	2397 267.65	2412 483.83	2427 700.07	2442 916.42
136 02 30	2382 329.95	2397 545.72	2412 761.57	2427 977.50	2443 193.52
136 05 00	2382 613.30	2397 828.74	2413 044.27	2428 259.88	2443 475.57
136 07 30	2382 901.59	2398 116.71	2413 331.92	2428 547.20	2443 762.57
136 10 00	2383 194.86	2398 409.65	2413 624.52	2428 839.46	2444 054.50
136 12 30	2383 493.07	2398 707.54	2413 922.08	2429 136.68	2444 351.37
136 15 00	2383 796.26	2399 010.38	2414 224.58	2429 438.85	2444 653.19
136 17 30	2384 104.41	2399 318.19	2414 532.04	2429 745.96	2444 959.96
136 20 00	2384 417.52	2399 630.95	2414 844.46	2430 058.02	2445 271.66
136 22 30	2384 735.59	2399 948.67	2415 161.82	2430 375.03	2445 588.32
136 25 00	2385 058.63	2400 271.35	2415 484.14	2430 696.99	2445 909.92
136 27 30	2385 386.63	2400 598.99	2415 811.42	2431 023.91	2446 236.47
136 30 00	2385 719.59	2400 931.59	2416 143.66	2431 355.77	2446 567.95
136 32 30	2386 057.52	2401 269.15	2416 480.84	2431 692.59	2446 904.39
136 35 00	2386 400.42	2401 611.68	2416 822.99	2432 034.35	2447 245.78
136 37 30	2386 748.29	2401 959.17	2417 170.09	2432 381.07	2447 592.12
136 40 00	2387 101.12	2402 311.61	2417 522.16	2432 732.75	2447 943.39
136 42 30	2387 458.91	2402 669.02	2417 879.17	2433 089.37	2448 299.63
136 45 00	2387 821.68	2403 031.39	2418 241.15	2433 450.96	2448 660.80
136 47 30	2388 189.42	2403 398.73	2418 608.09	2433 817.49	2449 026.94
136 50 00	2388 562.12	2403 771.03	2418 979.99	2434 188.98	2449 398.02
136 52 30	2388 939.79	2404 148.30	2419 356.84	2434 565.42	2449 774.05
136 55 00	2389 322.43	2404 530.53	2419 738.66	2434 946.83	2450 155.04
136 57 30	2389 710.05	2404 917.73	2420 125.44	2435 333.19	2450 540.97
137 00 00	2390 102.63	2405 309.89	2420 517.18	2435 724.50	2450 931.86
137 02 30	2390 500.19	2405 707.02	2420 913.89	2436 120.77	2451 327.70
137 05 00	2390 902.71	2406 109.12	2421 315.55	2436 522.01	2451 728.50
137 07 30	2391 310.22	2406 516.19	2421 722.18	2436 928.20	2452 134.25
137 10 00	2391 722.69	2406 928.22	2422 133.77	2437 339.34	2452 544.95
137 12 30	2392 140.14	2407 345.22	2422 550.33	2437 755.45	2452 960.60
137 15 00	2392 562.56	2407 767.19	2422 971.85	2438 176.52	2453 381.22
137 17 30	2392 989.95	2408 194.13	2423 398.34	2438 602.55	2453 806.79
137 20 00	2393 422.32	2408 626.05	2423 829.79	2439 033.54	2454 237.31
137 22 30	2393 859.67	2409 062.93	2424 266.20	2439 469.48	2454 672.79
137 25 00	2394 301.99	2409 504.78	2424 707.58	2439 910.40	2455 113.23
137 27 30	2394 749.29	2409 951.61	2425 153.94	2440 356.28	2455 558.62
137 30 00	2395 201.56	2410 403.41	2425 605.26	2440 807.11	2456 008.98
137 32 30	2395 658.81	2410 860.18	2426 061.55	2441 262.91	2456 464.29
137 35 00	2396 121.04	2411 321.92	2426 522.80	2441 723.68	2456 924.56
137 37 30	2396 588.25	2411 788.64	2426 989.03	2442 189.40	2457 389.79
137 40 00	2397 060.44	2412 260.33	2427 460.22	2442 660.10	2457 859.98
137 42 30	2397 537.60	2412 737.00	2427 936.39	2443 135.76	2458 335.14
137 45 00	2398 019.75	2413 218.64	2428 417.52	2443 616.39	2458 815.25
137 47 30	2398 506.88	2413 705.25	2428 903.62	2444 101.98	2459 300.32
137 50 00	2398 998.98	2414 196.85	2429 394.70	2444 592.53	2459 790.36
137 52 30	2399 496.07	2414 693.42	2429 890.75	2445 088.06	2460 285.36
137 55 00	2399 998.15	2415 194.97	2430 391.77	2445 588.56	2460 785.32
137 57 30	2400 505.20	2415 701.49	2430 897.77	2446 094.01	2461 290.25
138 00 00	2401 017.24	2416 212.99	2431 408.73	2446 604.44	2461 800.14

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.29	-.35	-.40	-.44	-.48	-.52	-.55	-.58	-.60	-.61	-.62	-.62

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	58 30 00	58 32 30	58 35 00	58 37 30	58 40 00
133 00 00	2813 152.73	2813 000.06	2812 847.19	2812 694.14	2812 540.88
133 02 30	2805 181.37	2805 038.08	2804 894.59	2804 750.92	2804 607.05
133 05 00	2797 210.04	2797 076.11	2796 942.01	2796 807.71	2796 673.23
133 07 30	2789 238.69	2789 114.15	2788 989.42	2788 864.51	2788 739.41
133 10 00	2781 267.36	2781 152.19	2781 036.85	2780 921.31	2780 805.60
133 12 30	2773 296.04	2773 190.25	2773 084.28	2772 978.14	2772 871.81
133 15 00	2765 324.73	2765 228.32	2765 131.73	2765 034.98	2764 938.04
133 17 30	2757 353.43	2757 266.40	2757 179.20	2757 091.83	2757 004.28
133 20 00	2749 382.16	2749 304.51	2749 226.69	2749 148.70	2749 070.54
133 22 30	2741 410.90	2741 342.63	2741 274.20	2741 205.60	2741 136.83
133 25 00	2733 439.66	2733 380.77	2733 321.72	2733 262.52	2733 203.14
133 27 30	2725 468.45	2725 418.94	2725 369.28	2725 319.46	2725 269.48
133 30 00	2717 497.26	2717 457.14	2717 416.87	2717 376.44	2717 335.84
133 32 30	2709 526.10	2709 495.36	2709 464.48	2709 433.44	2709 402.24
133 35 00	2701 554.97	2701 533.63	2701 512.13	2701 490.48	2701 468.68
133 37 30	2693 583.87	2693 571.91	2693 559.81	2693 547.56	2693 535.15
133 40 00	2685 612.81	2685 610.24	2685 607.53	2685 604.67	2685 601.66
133 42 30	2677 641.79	2677 648.61	2677 655.29	2677 661.82	2677 668.21
133 45 00	2669 670.80	2669 687.01	2669 703.08	2669 719.01	2669 734.80
133 47 30	2661 699.86	2661 725.46	2661 750.92	2661 776.25	2661 801.44
133 50 00	2653 728.96	2653 763.95	2653 798.81	2653 833.54	2653 868.12
133 52 30	2645 758.11	2645 802.49	2645 846.75	2645 890.88	2645 934.86
133 55 00	2637 787.30	2637 841.08	2637 894.73	2637 948.26	2638 001.65
133 57 30	2629 816.56	2629 879.73	2629 942.78	2630 005.70	2630 068.50
134 00 00	2621 845.86	2621 918.42	2621 990.87	2622 063.20	2622 135.40
134 02 30	2613 875.21	2613 957.17	2614 039.02	2614 120.75	2614 202.35
134 05 00	2605 904.63	2605 995.99	2606 087.24	2606 178.37	2606 269.38
134 07 30	2597 934.10	2598 034.86	2598 135.51	2598 236.04	2598 336.46
134 10 00	2589 963.63	2590 073.80	2590 183.85	2590 293.78	2590 403.61
134 12 30	2581 993.23	2582 112.80	2582 232.25	2582 351.60	2582 470.83
134 15 00	2574 022.90	2574 151.86	2574 280.72	2574 409.48	2574 538.12
134 17 30	2566 052.64	2566 191.00	2566 329.27	2566 467.43	2566 605.48
134 20 00	2558 082.45	2558 230.22	2558 377.89	2558 525.46	2558 672.92
134 22 30	2550 112.33	2550 269.50	2550 426.58	2550 583.56	2550 740.43
134 25 00	2542 142.28	2542 308.87	2542 475.35	2542 641.74	2542 808.02
134 27 30	2534 172.33	2534 348.31	2534 524.21	2534 700.01	2534 875.71
134 30 00	2526 202.44	2526 387.84	2526 573.14	2526 758.35	2526 943.47
134 32 30	2518 232.64	2518 427.44	2518 622.16	2518 816.78	2519 011.31
134 35 00	2510 262.94	2510 467.14	2510 671.27	2510 875.31	2511 079.26
134 37 30	2502 293.31	2502 506.92	2502 720.46	2502 933.91	2503 147.28
134 40 00	2494 323.77	2494 546.80	2494 769.74	2494 992.62	2495 215.40
134 42 30	2486 354.33	2486 586.77	2486 819.13	2487 051.42	2487 283.63
134 45 00	2478 384.98	2478 626.83	2478 868.61	2479 110.31	2479 351.94
134 47 30	2470 415.73	2470 666.99	2470 918.19	2471 169.31	2471 420.36
134 50 00	2462 446.58	2462 707.20	2462 967.87	2463 228.41	2463 488.88
134 52 30	2454 477.53	2454 747.61	2455 017.65	2455 287.61	2455 557.51
134 55 00	2446 508.58	2446 788.09	2447 067.54	2447 346.93	2447 626.24
134 57 30	2438 539.74	2438 828.67	2439 117.54	2439 406.34	2439 695.09
135 00 00	2430 571.01	2430 869.35	2431 167.64	2431 465.87	2431 764.04
135 02 30	2422 602.39	2422 910.15	2423 217.87	2423 525.52	2423 833.12
135 05 00	2414 633.88	2414 951.07	2415 268.20	2415 585.28	2415 902.30
135 07 30	2406 665.49	2406 992.09	2407 318.65	2407 645.16	2407 971.61
135 10 00	2398 697.22	2399 033.24	2399 369.23	2399 705.16	2400 041.04
135 12 30	2390 729.07	2391 074.51	2391 419.92	2391 765.28	2392 110.59
135 15 00	2382 761.04	2383 115.91	2383 470.74	2383 825.53	2384 180.27
135 17 30	2374 793.13	2375 157.43	2375 521.69	2375 885.91	2376 250.08
135 20 00	2366 825.35	2367 199.07	2367 572.76	2367 946.41	2368 320.02
135 22 30	2358 857.71	2359 240.85	2359 623.96	2360 007.05	2360 390.09
135 25 00	2350 890.19	2351 282.77	2351 675.31	2352 067.83	2352 460.30
135 27 30	2342 922.81	2343 324.81	2343 726.78	2344 128.73	2344 530.65
135 30 00	2334 955.56	2335 367.00	2335 778.40	2336 189.78	2336 601.14

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	58 30 00	58 32 30	58 35 00	58 37 30	58 40 00
133 00 00	2435 919.99	2451 147.99	2466 376.23	2481 604.71	2496 833.44
133 02 30	2435 842.58	2451 070.57	2466 298.80	2481 527.27	2496 755.98
133 05 00	2435 770.07	2450 998.05	2466 226.27	2481 454.73	2496 683.43
133 07 30	2435 702.46	2450 930.43	2466 158.64	2481 387.08	2496 615.76
133 10 00	2435 639.76	2450 867.72	2466 095.91	2481 324.32	2496 552.98
133 12 30	2435 581.98	2450 809.91	2466 038.07	2481 266.46	2496 495.09
133 15 00	2435 529.10	2450 757.00	2465 985.14	2481 213.50	2496 442.09
133 17 30	2435 481.13	2450 709.01	2465 937.10	2481 165.43	2496 393.99
133 20 00	2435 438.07	2450 665.91	2465 893.97	2481 122.26	2496 350.78
133 22 30	2435 399.92	2450 627.72	2465 855.75	2481 083.98	2496 312.46
133 25 00	2435 366.68	2450 594.43	2465 822.41	2481 050.61	2496 279.03
133 27 30	2435 338.35	2450 566.06	2465 793.99	2481 022.13	2496 250.50
133 30 00	2435 314.94	2450 542.59	2465 770.47	2480 998.55	2496 226.86
133 32 30	2435 296.43	2450 524.03	2465 751.84	2480 979.86	2496 208.12
133 35 00	2435 282.83	2450 510.37	2465 738.13	2480 966.08	2496 194.27
133 37 30	2435 274.16	2450 501.63	2465 729.31	2480 957.20	2496 185.32
133 40 00	2435 270.39	2450 497.79	2465 725.40	2480 953.22	2496 181.26
133 42 30	2435 271.54	2450 498.86	2465 726.41	2480 954.15	2496 182.10
133 45 00	2435 277.61	2450 504.85	2465 732.31	2480 959.97	2496 187.84
133 47 30	2435 288.58	2450 515.74	2465 743.11	2480 970.69	2496 198.47
133 50 00	2435 304.47	2450 531.55	2465 758.83	2480 986.31	2496 214.00
133 52 30	2435 325.28	2450 552.27	2465 779.45	2481 006.84	2496 234.43
133 55 00	2435 351.01	2450 577.89	2465 804.98	2481 032.28	2496 259.76
133 57 30	2435 381.65	2450 608.44	2465 835.43	2481 062.60	2496 290.00
134 00 00	2435 417.21	2450 643.89	2465 870.78	2481 097.85	2496 325.12
134 02 30	2435 457.69	2450 684.26	2465 911.03	2481 137.99	2496 365.15
134 05 00	2435 503.08	2450 729.54	2465 956.20	2481 183.04	2496 410.08
134 07 30	2435 553.40	2450 779.74	2466 006.27	2481 232.99	2496 459.91
134 10 00	2435 608.63	2450 834.85	2466 061.26	2481 287.86	2496 514.65
134 12 30	2435 668.78	2450 894.88	2466 121.16	2481 347.63	2496 574.28
134 15 00	2435 733.86	2450 959.82	2466 185.97	2481 412.30	2496 638.82
134 17 30	2435 803.85	2451 029.68	2466 255.69	2481 481.88	2496 708.26
134 20 00	2435 878.77	2451 104.46	2466 330.33	2481 556.37	2496 782.61
134 22 30	2435 958.61	2451 184.15	2466 409.87	2481 635.77	2496 861.86
134 25 00	2436 043.37	2451 268.76	2466 494.33	2481 720.08	2496 946.01
134 27 30	2436 133.05	2451 358.29	2466 583.71	2481 809.29	2497 035.06
134 30 00	2436 227.66	2451 452.73	2466 678.00	2481 903.42	2497 129.03
134 32 30	2436 327.18	2451 552.10	2466 777.20	2482 002.46	2497 227.90
134 35 00	2436 431.64	2451 656.40	2466 881.32	2482 106.41	2497 331.68
134 37 30	2436 541.02	2451 765.60	2466 990.35	2482 215.27	2497 440.36
134 40 00	2436 655.32	2451 879.73	2467 104.30	2482 329.04	2497 553.95
134 42 30	2436 774.55	2451 998.78	2467 223.17	2482 447.72	2497 672.45
134 45 00	2436 898.71	2452 122.75	2467 346.96	2482 571.32	2497 795.85
134 47 30	2437 027.79	2452 251.64	2467 475.66	2482 699.83	2497 924.17
134 50 00	2437 161.80	2452 385.46	2467 609.28	2482 833.25	2498 057.40
134 52 30	2437 300.73	2452 524.20	2467 747.82	2482 971.59	2498 195.53
134 55 00	2437 444.60	2452 667.86	2467 891.28	2483 114.85	2498 338.58
134 57 30	2437 593.39	2452 816.44	2468 039.66	2483 263.02	2498 486.53
135 00 00	2437 747.11	2452 969.96	2468 192.95	2483 416.10	2498 639.40
135 02 30	2437 905.76	2453 128.39	2468 351.18	2483 574.09	2498 797.17
135 05 00	2438 069.35	2453 291.75	2468 514.31	2483 737.01	2498 959.86
135 07 30	2438 237.86	2453 460.04	2468 682.38	2483 904.85	2499 127.47
135 10 00	2438 411.30	2453 633.26	2468 855.36	2484 077.60	2499 299.98
135 12 30	2438 589.68	2453 811.40	2469 033.27	2484 255.26	2499 477.41
135 15 00	2438 772.98	2453 994.47	2469 216.09	2484 437.85	2499 659.76
135 17 30	2438 961.22	2454 182.46	2469 403.84	2484 625.36	2499 847.01
135 20 00	2439 154.39	2454 375.39	2469 596.53	2484 817.78	2500 039.19
135 22 30	2439 352.50	2454 573.24	2469 794.13	2485 015.13	2500 236.28
135 25 00	2439 555.53	2454 776.03	2469 996.65	2485 217.39	2500 438.28
135 27 30	2439 763.51	2454 983.74	2470 204.10	2485 424.58	2500 645.20
135 30 00	2439 976.42	2455 196.39	2470 416.48	2485 636.69	2500 857.04

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.34	-.39	-.44	-.48	-.51	-.54	-.57	-.59	-.60	-.61	-.61

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	58 30 00	58 32 30	58 35 00	58 37 30	58 40 00
135 30 00	2334 955.56	2335 367.00	2335 778.40	2336 189.78	2336 601.14
135 32 30	2326 988.47	2327 409.32	2327 830.16	2328 250.98	2328 671.77
135 35 00	2319 021.50	2319 451.79	2319 882.06	2320 312.31	2320 742.54
135 37 30	2311 054.68	2311 494.40	2311 934.11	2312 373.80	2312 813.46
135 40 00	2303 088.01	2303 537.16	2303 986.30	2304 435.43	2304 884.54
135 42 30	2295 121.48	2295 580.07	2296 038.65	2296 497.21	2296 955.77
135 45 00	2287 155.11	2287 623.13	2288 091.15	2288 559.15	2289 027.14
135 47 30	2279 188.89	2279 666.35	2280 143.80	2280 621.25	2281 098.69
135 50 00	2271 222.83	2271 709.72	2272 196.61	2272 683.50	2273 170.38
135 52 30	2263 256.92	2263 753.25	2264 249.58	2264 745.92	2265 242.23
135 55 00	2255 291.18	2255 796.94	2256 302.72	2256 808.49	2257 314.26
135 57 30	2247 325.59	2247 840.80	2248 356.02	2248 871.23	2249 386.45
136 00 00	2239 360.17	2239 884.82	2240 409.48	2240 934.14	2241 458.81
136 02 30	2231 394.93	2231 929.01	2232 463.12	2232 997.23	2233 531.34
136 05 00	2223 429.84	2223 973.38	2224 516.92	2225 060.48	2225 604.04
136 07 30	2215 464.93	2216 017.91	2216 570.90	2217 123.91	2217 676.92
136 10 00	2207 500.21	2208 062.62	2208 625.06	2209 187.52	2209 749.98
136 12 30	2199 535.65	2200 107.51	2200 679.40	2201 251.30	2201 823.22
136 15 00	2191 571.27	2192 152.58	2192 733.92	2193 315.27	2193 896.64
136 17 30	2183 607.08	2184 197.84	2184 788.62	2185 379.43	2185 970.25
136 20 00	2175 643.07	2176 243.28	2176 843.51	2177 443.77	2178 044.05
136 22 30	2167 679.25	2168 288.90	2168 898.59	2169 508.30	2170 118.03
136 25 00	2159 715.62	2160 334.72	2160 953.86	2161 573.02	2162 192.22
136 27 30	2151 752.18	2152 380.73	2153 009.32	2153 637.94	2154 266.59
136 30 00	2143 788.93	2144 426.93	2145 064.97	2145 703.05	2146 341.16
136 32 30	2135 825.89	2136 473.34	2137 120.83	2137 768.37	2138 415.94
136 35 00	2127 863.03	2128 519.94	2129 176.89	2129 833.88	2130 490.91
136 37 30	2119 900.38	2120 566.74	2121 233.15	2121 899.60	2122 566.09
136 40 00	2111 937.94	2112 613.75	2113 289.62	2113 965.53	2114 641.48
136 42 30	2103 975.70	2104 660.97	2105 346.29	2106 031.66	2106 717.08
136 45 00	2096 013.66	2096 708.39	2097 403.18	2098 098.01	2098 792.89
136 47 30	2088 051.84	2088 756.03	2089 460.28	2090 164.57	2090 868.92
136 50 00	2080 090.23	2080 803.88	2081 517.59	2082 231.35	2082 945.15
136 52 30	2072 128.85	2072 851.95	2073 575.12	2074 298.35	2075 021.62
136 55 00	2064 167.68	2064 900.24	2065 632.87	2066 365.56	2067 098.30
136 57 30	2056 206.71	2056 948.75	2057 690.84	2058 433.00	2059 175.21
137 00 00	2048 246.00	2048 997.48	2049 749.04	2050 500.66	2051 252.34
137 02 30	2040 285.49	2041 046.45	2041 807.46	2042 568.56	2043 329.71
137 05 00	2032 325.21	2033 095.63	2033 866.12	2034 636.68	2035 407.30
137 07 30	2024 365.17	2025 145.05	2025 925.01	2026 705.04	2027 485.14
137 10 00	2016 405.35	2017 194.71	2017 984.13	2018 773.63	2019 563.20
137 12 30	2008 445.78	2009 244.59	2010 043.49	2010 842.46	2011 641.50
137 15 00	2000 486.44	2001 294.73	2002 103.09	2002 911.53	2003 720.05
137 17 30	1992 527.34	1993 345.09	1994 162.93	1994 980.85	1995 798.84
137 20 00	1984 568.48	1985 395.71	1986 223.02	1987 050.41	1987 877.87
137 22 30	1976 609.88	1977 446.57	1978 283.35	1979 120.21	1979 957.17
137 25 00	1968 651.51	1969 497.68	1970 343.93	1971 190.27	1972 036.70
137 27 30	1960 693.40	1961 549.03	1962 404.76	1963 260.58	1964 116.49
137 30 00	1952 735.54	1953 600.65	1954 465.85	1955 331.15	1956 196.54
137 32 30	1944 777.94	1945 652.52	1946 527.20	1947 401.98	1948 276.84
137 35 00	1936 820.59	1937 704.65	1938 588.81	1939 473.06	1940 357.41
137 37 30	1928 863.50	1929 757.04	1930 650.67	1931 544.41	1932 438.24
137 40 00	1920 906.67	1921 809.69	1922 712.80	1923 616.02	1924 519.34
137 42 30	1912 950.11	1913 862.60	1914 775.20	1915 687.90	1916 600.70
137 45 00	1904 993.83	1905 915.79	1906 837.87	1907 760.05	1908 682.34
137 47 30	1897 037.80	1897 969.24	1898 900.81	1899 832.47	1900 764.25
137 50 00	1889 082.05	1890 022.98	1890 964.01	1891 905.17	1892 846.42
137 52 30	1881 126.58	1882 076.98	1883 027.51	1883 978.15	1884 928.89
137 55 00	1873 171.37	1874 131.26	1875 091.27	1876 051.40	1877 011.63
137 57 30	1865 216.45	1866 185.83	1867 155.32	1868 124.94	1869 094.66
138 00 00	1857 261.82	1858 240.68	1859 219.66	1860 198.76	1861 177.98

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.03	-.03

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	58 30 00	58 32 30	58 35 00	58 37 30	58 40 00
135 30 00	2439 976.42	2455 196.39	2470 416.48	2485 636.69	2500 857.04
135 32 30	2440 194.26	2455 413.96	2470 633.79	2485 853.72	2501 073.79
135 35 00	2440 417.04	2455 636.47	2470 856.01	2486 075.67	2501 295.46
135 37 30	2440 644.76	2455 863.90	2471 083.17	2486 302.54	2501 522.05
135 40 00	2440 877.41	2456 096.28	2471 315.25	2486 534.35	2501 753.56
135 42 30	2441 115.00	2456 333.57	2471 552.27	2486 771.07	2501 989.99
135 45 00	2441 357.53	2456 575.81	2471 794.21	2487 012.72	2502 231.34
135 47 30	2441 605.00	2456 822.98	2472 041.08	2487 259.28	2502 477.61
135 50 00	2441 857.40	2457 075.08	2472 292.88	2487 510.78	2502 728.79
135 52 30	2442 114.74	2457 332.13	2472 549.62	2487 767.20	2502 984.90
135 55 00	2442 377.03	2457 594.10	2472 811.27	2488 028.55	2503 245.94
135 57 30	2442 644.25	2457 861.01	2473 077.87	2488 294.83	2503 511.89
136 00 00	2442 916.42	2458 132.86	2473 349.39	2488 566.02	2503 782.76
136 02 30	2443 193.52	2458 409.64	2473 625.85	2488 842.15	2504 058.56
136 05 00	2443 475.57	2458 691.36	2473 907.24	2489 123.21	2504 339.29
136 07 30	2443 762.57	2458 978.01	2474 193.56	2489 409.19	2504 624.93
136 10 00	2444 054.50	2459 269.61	2474 484.82	2489 700.11	2504 915.50
136 12 30	2444 351.37	2459 566.14	2474 781.01	2489 995.95	2505 210.99
136 15 00	2444 653.19	2459 867.62	2475 082.13	2490 296.73	2505 511.42
136 17 30	2444 959.96	2460 174.03	2475 388.19	2490 602.43	2505 816.76
136 20 00	2445 271.66	2460 485.38	2475 699.19	2490 913.06	2506 127.03
136 22 30	2445 588.32	2460 801.67	2476 015.11	2491 228.63	2506 442.23
136 25 00	2445 909.92	2461 122.91	2476 335.98	2491 549.13	2506 762.36
136 27 30	2446 236.47	2461 449.09	2476 661.79	2491 874.56	2507 087.41
136 30 00	2446 567.95	2461 780.20	2476 992.53	2492 204.92	2507 417.40
136 32 30	2446 904.39	2462 116.26	2477 328.20	2492 540.22	2507 752.30
136 35 00	2447 245.78	2462 457.26	2477 668.82	2492 880.44	2508 092.14
136 37 30	2447 592.12	2462 803.21	2478 014.38	2493 225.61	2508 436.91
136 40 00	2447 943.39	2463 154.10	2478 364.87	2493 575.71	2508 786.61
136 42 30	2448 299.63	2463 509.94	2478 720.31	2493 930.74	2509 141.24
136 45 00	2448 660.80	2463 870.72	2479 080.68	2494 290.71	2509 500.80
136 47 30	2449 026.94	2464 236.44	2479 446.00	2494 655.61	2509 865.29
136 50 00	2449 398.02	2464 607.11	2479 816.26	2495 025.45	2510 234.71
136 52 30	2449 774.05	2464 982.73	2480 191.46	2495 400.23	2510 609.07
136 55 00	2450 155.04	2465 363.29	2480 571.60	2495 779.95	2510 988.36
136 57 30	2450 540.97	2465 748.80	2480 956.68	2496 164.60	2511 372.58
137 00 00	2450 931.86	2466 139.26	2481 346.70	2496 554.19	2511 761.73
137 02 30	2451 327.70	2466 534.66	2481 741.67	2496 948.73	2512 155.83
137 05 00	2451 728.50	2466 935.02	2482 141.59	2497 348.19	2512 554.85
137 07 30	2452 134.25	2467 340.32	2482 546.44	2497 752.61	2512 958.81
137 10 00	2452 544.95	2467 750.58	2482 956.25	2498 161.95	2513 367.71
137 12 30	2452 960.60	2468 165.78	2483 371.00	2498 576.25	2513 781.53
137 15 00	2453 381.22	2468 585.93	2483 790.69	2498 995.48	2514 200.30
137 17 30	2453 806.79	2469 011.04	2484 215.33	2499 419.65	2514 624.01
137 20 00	2454 237.31	2469 441.10	2484 644.93	2499 848.76	2515 052.65
137 22 30	2454 672.79	2469 876.11	2485 079.46	2500 282.82	2515 486.23
137 25 00	2455 113.23	2470 316.07	2485 518.94	2500 721.83	2515 924.75
137 27 30	2455 558.62	2470 760.99	2485 963.37	2501 165.77	2516 368.20
137 30 00	2456 008.98	2471 210.85	2486 412.75	2501 614.66	2516 816.60
137 32 30	2456 464.29	2471 665.67	2486 867.08	2502 068.49	2517 269.94
137 35 00	2456 924.56	2472 125.45	2487 326.36	2502 527.27	2517 728.21
137 37 30	2457 389.79	2472 590.18	2487 790.59	2502 990.99	2518 191.43
137 40 00	2457 859.98	2473 059.87	2488 259.77	2503 459.67	2518 659.59
137 42 30	2458 335.14	2473 534.51	2488 733.90	2503 933.28	2519 132.68
137 45 00	2458 815.25	2474 014.11	2489 212.98	2504 411.84	2519 610.73
137 47 30	2459 300.32	2474 498.67	2489 697.01	2504 895.35	2520 093.71
137 50 00	2459 790.36	2474 988.18	2490 186.00	2505 383.81	2520 581.64
137 52 30	2460 285.36	2475 482.65	2490 679.94	2505 877.22	2521 074.51
137 55 00	2460 785.32	2475 982.08	2491 178.83	2506 375.58	2521 572.33
137 57 30	2461 290.25	2476 486.46	2491 682.68	2506 878.88	2522 075.08
138 00 00	2461 800.14	2476 995.81	2492 191.48	2507 387.13	2522 582.79

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.29	-.35	-.40	-.44	-.48	-.52	-.55	-.58	-.60	-.61	-.62	-.62

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	58 40 00	58 42 30	58 45 00	58 47 30	58 50 00
133 30 00	2717 335.84	2717 295.08	2717 254.16	2717 213.05	2717 171.77
133 32 30	2709 402.24	2709 370.88	2709 339.35	2709 307.65	2709 275.78
133 35 00	2701 468.68	2701 446.72	2701 424.59	2701 402.29	2701 379.83
133 37 30	2693 535.15	2693 522.59	2693 509.86	2693 496.97	2693 483.91
133 40 00	2685 601.66	2685 598.49	2685 595.17	2685 591.68	2685 588.03
133 42 30	2677 668.21	2677 674.44	2677 680.52	2677 686.45	2677 692.21
133 45 00	2669 734.80	2669 750.43	2669 765.92	2669 781.25	2669 796.42
133 47 30	2661 801.44	2661 826.48	2661 851.37	2661 876.11	2661 900.68
133 50 00	2653 868.12	2653 902.57	2653 936.87	2653 971.01	2654 005.01
133 52 30	2645 934.86	2645 978.71	2646 022.41	2646 065.97	2646 109.37
133 55 00	2638 001.65	2638 054.90	2638 108.01	2638 160.98	2638 213.80
133 57 30	2630 068.50	2630 131.16	2630 193.67	2630 256.06	2630 318.29
134 00 00	2622 135.40	2622 207.46	2622 279.39	2622 351.19	2622 422.83
134 02 30	2614 202.35	2614 283.83	2614 365.16	2614 446.38	2614 527.43
134 05 00	2606 269.38	2606 360.26	2606 451.02	2606 541.63	2606 632.11
134 07 30	2598 336.46	2598 436.75	2598 536.92	2598 636.95	2598 736.85
134 10 00	2590 403.61	2590 513.31	2590 622.89	2590 732.34	2590 841.66
134 12 30	2582 470.83	2582 589.94	2582 708.94	2582 827.80	2582 946.55
134 15 00	2574 538.12	2574 666.65	2574 795.05	2574 923.34	2575 051.50
134 17 30	2566 605.48	2566 743.42	2566 881.25	2567 018.95	2567 156.53
134 20 00	2558 672.92	2558 820.28	2558 967.51	2559 114.64	2559 261.64
134 22 30	2550 740.43	2550 897.20	2551 053.86	2551 210.41	2551 366.84
134 25 00	2542 808.02	2542 974.21	2543 140.29	2543 306.26	2543 472.11
134 27 30	2534 875.71	2535 051.31	2535 226.81	2535 402.20	2535 577.48
134 30 00	2526 943.47	2527 128.49	2527 313.41	2527 498.22	2527 682.92
134 32 30	2519 011.31	2519 205.76	2519 400.09	2519 594.33	2519 788.47
134 35 00	2511 079.26	2511 283.12	2511 486.88	2511 690.54	2511 894.10
134 37 30	2503 147.28	2503 360.56	2503 573.75	2503 786.84	2503 999.83
134 40 00	2495 215.40	2495 438.11	2495 660.71	2495 883.23	2496 105.65
134 42 30	2487 283.63	2487 515.75	2487 747.79	2487 979.73	2488 211.58
134 45 00	2479 351.94	2479 593.49	2479 834.95	2480 076.32	2480 317.60
134 47 30	2471 420.36	2471 671.33	2471 922.22	2472 173.01	2472 423.73
134 50 00	2463 488.88	2463 749.28	2464 009.60	2464 269.83	2464 529.97
134 52 30	2455 557.51	2455 827.33	2456 097.07	2456 366.73	2456 636.32
134 55 00	2447 626.24	2447 905.49	2448 184.66	2448 463.76	2448 742.78
134 57 30	2439 695.09	2439 983.76	2440 272.37	2440 560.90	2440 849.34
135 00 00	2431 764.04	2432 062.14	2432 360.18	2432 658.15	2432 956.03
135 02 30	2423 833.12	2424 140.65	2424 448.12	2424 755.52	2425 062.84
135 05 00	2415 902.30	2416 219.27	2416 536.17	2416 853.00	2417 169.77
135 07 30	2407 971.61	2408 298.00	2408 624.34	2408 950.61	2409 276.82
135 10 00	2400 041.04	2400 376.87	2400 712.64	2401 048.35	2401 383.99
135 12 30	2392 110.59	2392 455.85	2392 801.06	2393 146.21	2393 491.29
135 15 00	2384 180.27	2384 534.97	2384 889.61	2385 244.20	2385 598.72
135 17 30	2376 250.08	2376 614.21	2376 978.29	2377 342.32	2377 706.29
135 20 00	2368 320.02	2368 693.59	2369 067.11	2369 440.57	2369 813.98
135 22 30	2360 390.09	2360 773.10	2361 156.06	2361 538.96	2361 921.82
135 25 00	2352 460.30	2352 852.75	2353 245.15	2353 637.50	2354 029.80
135 27 30	2344 530.65	2344 932.53	2345 334.37	2345 736.16	2346 137.91
135 30 00	2336 601.14	2337 012.46	2337 423.73	2337 834.98	2338 246.17
135 32 30	2328 671.77	2329 092.53	2329 513.25	2329 933.94	2330 354.58
135 35 00	2320 742.54	2321 172.74	2321 602.91	2322 033.05	2322 463.14
135 37 30	2312 813.46	2313 253.11	2313 692.72	2314 132.30	2314 571.85
135 40 00	2304 884.54	2305 333.63	2305 782.69	2306 231.71	2306 680.71
135 42 30	2296 955.77	2297 414.29	2297 872.80	2298 331.28	2298 789.73
135 45 00	2289 027.14	2289 495.12	2289 963.07	2290 431.00	2290 898.90
135 47 30	2281 098.69	2281 576.11	2282 053.51	2282 530.89	2283 008.24
135 50 00	2273 170.38	2273 657.25	2274 144.10	2274 630.93	2275 117.73
135 52 30	2265 242.23	2265 738.55	2266 234.85	2266 731.14	2267 227.39
135 55 00	2257 314.26	2257 820.03	2258 325.78	2258 831.52	2259 337.23
135 57 30	2249 386.45	2249 901.66	2250 416.87	2250 932.06	2251 447.23
136 00 00	2241 458.81	2241 983.47	2242 508.13	2243 032.77	2243 557.40

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	58 40 00	58 42 30	58 45 00	58 47 30	58 50 00
133 30 00	2496 226.86	2511 455.38	2526 684.15	2541 913.12	2557 142.35
133 32 30	2496 208.12	2511 436.57	2526 665.27	2541 894.19	2557 123.33
133 35 00	2496 194.27	2511 422.65	2526 651.28	2541 880.13	2557 109.20
133 37 30	2496 185.32	2511 413.62	2526 642.18	2541 870.95	2557 099.95
133 40 00	2496 181.26	2511 409.49	2526 637.97	2541 866.66	2557 095.57
133 42 30	2496 182.10	2511 410.25	2526 638.65	2541 867.25	2557 096.07
133 45 00	2496 187.84	2511 415.90	2526 644.21	2541 872.72	2557 101.45
133 47 30	2496 198.47	2511 426.44	2526 654.66	2541 883.08	2557 111.72
133 50 00	2496 214.00	2511 441.89	2526 670.00	2541 898.32	2557 126.86
133 52 30	2496 234.43	2511 462.21	2526 690.23	2541 918.45	2557 146.88
133 55 00	2496 259.76	2511 487.44	2526 715.35	2541 943.46	2557 171.79
133 57 30	2496 290.00	2511 517.56	2526 745.37	2541 973.36	2557 201.57
134 00 00	2496 325.12	2511 552.58	2526 780.27	2542 008.14	2557 236.24
134 02 30	2496 365.15	2511 592.49	2526 820.06	2542 047.82	2557 275.79
134 05 00	2496 410.08	2511 637.30	2526 864.75	2542 092.38	2557 320.23
134 07 30	2496 459.91	2511 687.01	2526 914.33	2542 141.83	2557 369.54
134 10 00	2496 514.65	2511 741.61	2526 968.80	2542 196.17	2557 423.75
134 12 30	2496 574.28	2511 801.11	2527 028.16	2542 255.39	2557 482.84
134 15 00	2496 638.82	2511 865.51	2527 092.42	2542 319.51	2557 546.81
134 17 30	2496 708.26	2511 934.81	2527 161.57	2542 388.52	2557 615.66
134 20 00	2496 782.61	2512 009.01	2527 235.62	2542 462.42	2557 689.41
134 22 30	2496 861.86	2512 088.10	2527 314.56	2542 541.20	2557 768.03
134 25 00	2496 946.01	2512 172.10	2527 398.41	2542 624.88	2557 851.55
134 27 30	2497 035.06	2512 261.00	2527 487.14	2542 713.45	2557 939.95
134 30 00	2497 129.03	2512 354.80	2527 580.77	2542 806.91	2558 033.25
134 32 30	2497 227.90	2512 453.50	2527 679.30	2542 905.27	2558 131.42
134 35 00	2497 331.68	2512 557.10	2527 782.72	2543 008.51	2558 234.49
134 37 30	2497 440.36	2512 665.60	2527 891.04	2543 116.66	2558 342.45
134 40 00	2497 553.95	2512 779.01	2528 004.27	2543 229.69	2558 455.29
134 42 30	2497 672.45	2512 897.32	2528 122.39	2543 347.62	2558 573.03
134 45 00	2497 795.85	2513 020.53	2528 245.41	2543 470.45	2558 695.66
134 47 30	2497 924.17	2513 148.65	2528 373.33	2543 598.17	2558 823.18
134 50 00	2498 057.40	2513 281.68	2528 506.15	2543 730.78	2558 955.58
134 52 30	2498 195.53	2513 419.61	2528 643.88	2543 868.29	2559 092.88
134 55 00	2498 338.58	2513 562.44	2528 786.50	2544 010.70	2559 235.08
134 57 30	2498 486.53	2513 710.19	2528 934.02	2544 158.01	2559 382.16
135 00 00	2498 639.40	2513 862.83	2529 086.45	2544 310.21	2559 534.15
135 02 30	2498 797.17	2514 020.39	2529 243.78	2544 467.32	2559 691.02
135 05 00	2498 959.86	2514 182.85	2529 406.01	2544 629.32	2559 852.78
135 07 30	2499 127.47	2514 350.22	2529 573.15	2544 796.22	2560 019.45
135 10 00	2499 299.98	2514 522.50	2529 745.19	2544 968.01	2560 191.00
135 12 30	2499 477.41	2514 699.69	2529 922.13	2545 144.71	2560 367.45
135 15 00	2499 659.76	2514 881.78	2530 103.98	2545 326.31	2560 548.80
135 17 30	2499 847.01	2515 068.79	2530 290.74	2545 512.81	2560 735.05
135 20 00	2500 039.19	2515 260.70	2530 482.40	2545 704.22	2560 926.19
135 22 30	2500 236.28	2515 457.54	2530 678.97	2545 900.52	2561 122.22
135 25 00	2500 438.28	2515 659.28	2530 880.44	2546 101.73	2561 323.16
135 27 30	2500 645.20	2515 865.93	2531 086.82	2546 307.83	2561 528.99
135 30 00	2500 857.04	2516 077.49	2531 298.11	2546 518.84	2561 739.73
135 32 30	2501 073.79	2516 293.97	2531 514.31	2546 734.76	2561 955.36
135 35 00	2501 295.46	2516 515.36	2531 735.41	2546 955.58	2562 175.89
135 37 30	2501 522.05	2516 741.66	2531 961.43	2547 181.31	2562 401.32
135 40 00	2501 753.56	2516 972.88	2532 192.35	2547 411.94	2562 631.65
135 42 30	2501 989.99	2517 209.01	2532 428.18	2547 647.47	2562 866.89
135 45 00	2502 231.34	2517 450.06	2532 668.93	2547 887.91	2563 107.02
135 47 30	2502 477.61	2517 696.02	2532 914.59	2548 133.26	2563 352.06
135 50 00	2502 728.79	2517 946.90	2533 165.15	2548 383.51	2563 601.99
135 52 30	2502 984.90	2518 202.70	2533 420.64	2548 638.67	2563 856.84
135 55 00	2503 245.94	2518 463.41	2533 681.03	2548 898.74	2564 116.58
135 57 30	2503 511.89	2518 729.04	2533 946.33	2549 163.72	2564 381.23
136 00 00	2503 782.76	2518 999.59	2534 216.55	2549 433.61	2564 650.78

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.34	-.39	-.44	-.48	-.51	-.54	-.57	-.59	-.60	-.61	-.61

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	58 40 00	58 42 30	58 45 00	58 47 30	58 50 00
136 00 00	2241 458.81	2241 983.47	2242 508.13	2243 032.77	2243 557.40
136 02 30	2233 531.34	2234 065.45	2234 599.57	2235 133.67	2235 667.76
136 05 00	2225 604.04	2226 147.61	2226 691.18	2227 234.74	2227 778.28
136 07 30	2217 676.92	2218 229.94	2218 782.96	2219 335.98	2219 888.99
136 10 00	2209 749.98	2210 312.46	2210 874.94	2211 437.41	2211 999.89
136 12 30	2201 823.22	2202 395.15	2202 967.09	2203 539.02	2204 110.96
136 15 00	2193 896.64	2194 478.02	2195 059.42	2195 640.82	2196 222.21
136 17 30	2185 970.25	2186 561.09	2187 151.95	2187 742.80	2188 333.66
136 20 00	2178 044.05	2178 644.34	2179 244.66	2179 844.98	2180 445.31
136 22 30	2170 118.03	2170 727.79	2171 337.56	2171 947.34	2172 557.14
136 25 00	2162 192.22	2162 811.43	2163 430.66	2164 049.91	2164 669.18
136 27 30	2154 266.59	2154 895.26	2155 523.96	2156 152.67	2156 781.40
136 30 00	2146 341.16	2146 979.30	2147 617.46	2148 255.64	2148 893.84
136 32 30	2138 415.94	2139 063.54	2139 711.16	2140 358.81	2141 006.47
136 35 00	2130 490.91	2131 147.98	2131 805.06	2132 462.18	2133 119.31
136 37 30	2122 566.09	2123 232.61	2123 899.17	2124 565.75	2125 232.36
136 40 00	2114 641.48	2115 317.47	2115 993.50	2116 669.55	2117 345.63
136 42 30	2106 717.08	2107 402.53	2108 088.02	2108 773.55	2109 459.10
136 45 00	2098 792.89	2099 487.81	2100 182.77	2100 877.76	2101 572.79
136 47 30	2090 868.92	2091 573.30	2092 277.73	2092 982.20	2093 686.70
136 50 00	2082 945.15	2083 659.02	2084 372.91	2085 086.85	2085 800.83
136 52 30	2075 021.62	2075 744.95	2076 468.32	2077 191.73	2077 915.18
136 55 00	2067 098.30	2067 831.09	2068 563.94	2069 296.84	2070 029.76
136 57 30	2059 175.21	2059 917.47	2060 659.79	2061 402.16	2062 144.57
137 00 00	2051 252.34	2052 004.09	2052 755.88	2053 507.72	2054 259.60
137 02 30	2043 329.71	2044 090.92	2044 852.19	2045 613.50	2046 374.87
137 05 00	2035 407.30	2036 177.98	2036 948.73	2037 719.53	2038 490.38
137 07 30	2027 485.14	2028 265.29	2029 045.52	2029 825.79	2030 606.12
137 10 00	2019 563.20	2020 352.83	2021 142.53	2021 932.28	2022 722.10
137 12 30	2011 641.50	2012 440.61	2013 239.79	2014 039.03	2014 838.32
137 15 00	2003 720.05	2004 528.64	2005 337.30	2006 146.01	2006 954.79
137 17 30	1995 798.84	1996 616.91	1997 435.04	1998 253.24	1999 071.51
137 20 00	1987 877.87	1988 705.42	1989 533.04	1990 360.72	1991 188.47
137 22 30	1979 957.17	1980 794.19	1981 631.29	1982 468.46	1983 305.70
137 25 00	1972 036.70	1972 883.20	1973 729.79	1974 576.44	1975 423.17
137 27 30	1964 116.49	1964 972.48	1965 828.54	1966 684.68	1967 540.90
137 30 00	1956 196.54	1957 062.01	1957 927.56	1958 793.19	1959 658.89
137 32 30	1948 276.84	1949 151.79	1950 026.83	1950 901.95	1951 777.14
137 35 00	1940 357.41	1941 241.85	1942 126.37	1943 010.97	1943 895.66
137 37 30	1932 438.24	1933 332.16	1934 226.17	1935 120.27	1936 014.44
137 40 00	1924 519.34	1925 422.74	1926 326.24	1927 229.83	1928 133.50
137 42 30	1916 600.70	1917 513.59	1918 426.58	1919 339.66	1920 252.82
137 45 00	1908 682.34	1909 604.72	1910 527.20	1911 449.77	1912 372.43
137 47 30	1900 764.25	1901 696.11	1902 628.08	1903 560.15	1904 492.30
137 50 00	1892 846.42	1893 787.79	1894 729.25	1895 670.81	1896 612.45
137 52 30	1884 928.89	1885 879.75	1886 830.70	1887 781.75	1888 732.89
137 55 00	1877 011.63	1877 971.98	1878 932.43	1879 892.98	1880 853.62
137 57 30	1869 094.66	1870 064.49	1871 034.44	1872 004.48	1872 974.62
138 00 00	1861 177.98	1862 157.31	1863 136.74	1864 116.28	1865 095.93
138 02 30	1853 261.58	1854 250.40	1855 239.33	1856 228.37	1857 217.51
138 05 00	1845 345.47	1846 343.78	1847 342.22	1848 340.75	1849 339.40
138 07 30	1837 429.66	1838 437.47	1839 445.40	1840 453.44	1841 461.58
138 10 00	1829 514.14	1830 531.45	1831 548.87	1832 566.41	1833 584.06
138 12 30	1821 598.92	1822 625.72	1823 652.65	1824 679.69	1825 706.84
138 15 00	1813 684.00	1814 720.30	1815 756.73	1816 793.28	1817 829.93
138 17 30	1805 769.38	1806 815.19	1807 861.12	1808 907.16	1809 953.32
138 20 00	1797 855.07	1798 910.37	1799 965.80	1801 021.35	1802 077.03
138 22 30	1789 941.07	1791 005.88	1792 070.81	1793 135.87	1794 201.04
138 25 00	1782 027.38	1783 101.68	1784 176.12	1785 250.68	1786 325.37
138 27 30	1774 114.00	1775 197.80	1776 281.75	1777 365.82	1778 450.02
138 30 00	1766 200.94	1767 294.25	1768 387.70	1769 481.28	1770 574.98

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.03	-.03

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	58 40 00	58 42 30	58 45 00	58 47 30	58 50 00
136 00 00	2503 782.76	2518 999.59	2534 216.55	2549 433.61	2564 650.78
136 02 30	2504 058.56	2519 275.05	2534 491.68	2549 708.40	2564 925.23
136 05 00	2504 339.29	2519 555.44	2534 771.73	2549 988.11	2565 204.60
136 07 30	2504 624.93	2519 840.74	2535 056.69	2550 272.72	2565 488.87
136 10 00	2504 915.50	2520 130.97	2535 346.56	2550 562.25	2565 778.04
136 12 30	2505 210.99	2520 426.11	2535 641.36	2550 856.68	2566 072.12
136 15 00	2505 511.42	2520 726.18	2535 941.06	2551 156.03	2566 371.10
136 17 30	2505 816.76	2521 031.17	2536 245.69	2551 460.29	2566 674.99
136 20 00	2506 127.03	2521 341.07	2536 555.23	2551 769.46	2566 983.80
136 22 30	2506 442.23	2521 655.90	2536 869.68	2552 083.55	2567 297.51
136 25 00	2506 762.36	2521 975.66	2537 189.06	2552 402.55	2567 616.12
136 27 30	2507 087.41	2522 300.33	2537 513.36	2552 726.46	2567 939.65
136 30 00	2507 417.40	2522 629.93	2537 842.58	2553 055.28	2568 268.09
136 32 30	2507 752.30	2522 964.45	2538 176.70	2553 389.02	2568 601.44
136 35 00	2508 092.14	2523 303.90	2538 515.76	2553 727.68	2568 939.69
136 37 30	2508 436.91	2523 648.27	2538 859.73	2554 071.25	2569 282.86
136 40 00	2508 786.61	2523 997.57	2539 208.62	2554 419.74	2569 630.94
136 42 30	2509 141.24	2524 351.79	2539 562.44	2554 773.15	2569 983.93
136 45 00	2509 500.80	2524 710.93	2539 921.17	2555 131.46	2570 341.83
136 47 30	2509 865.29	2525 075.02	2540 284.83	2555 494.70	2570 704.65
136 50 00	2510 234.71	2525 444.02	2540 653.41	2555 862.86	2571 072.38
136 52 30	2510 609.07	2525 817.95	2541 026.92	2556 235.93	2571 445.02
136 55 00	2510 988.36	2526 196.81	2541 405.34	2556 613.93	2571 822.58
136 57 30	2511 372.58	2526 580.59	2541 788.69	2556 996.84	2572 205.06
137 00 00	2511 761.73	2526 969.31	2542 176.97	2557 384.67	2572 592.44
137 02 30	2512 155.83	2527 362.96	2542 570.17	2557 777.43	2572 984.74
137 05 00	2512 554.85	2527 761.54	2542 968.30	2558 175.10	2573 381.96
137 07 30	2512 958.81	2528 165.04	2543 371.35	2558 577.69	2573 784.10
137 10 00	2513 367.71	2528 573.48	2543 779.33	2558 985.21	2574 191.14
137 12 30	2513 781.53	2528 986.85	2544 192.23	2559 397.65	2574 603.12
137 15 00	2514 200.30	2529 405.15	2544 610.06	2559 815.01	2575 020.00
137 17 30	2514 624.01	2529 828.38	2545 032.82	2560 237.29	2575 441.80
137 20 00	2515 052.65	2530 256.54	2545 460.51	2560 664.49	2575 868.53
137 22 30	2515 486.23	2530 689.65	2545 893.12	2561 096.62	2576 300.17
137 25 00	2515 924.75	2531 127.68	2546 330.67	2561 533.68	2576 736.73
137 27 30	2516 368.20	2531 570.64	2546 773.14	2561 975.66	2577 178.21
137 30 00	2516 816.60	2532 018.54	2547 220.54	2562 422.56	2577 624.61
137 32 30	2517 269.94	2532 471.38	2547 672.88	2562 874.39	2578 075.94
137 35 00	2517 728.21	2532 929.15	2548 130.14	2563 331.15	2578 532.18
137 37 30	2518 191.43	2533 391.86	2548 592.34	2563 792.83	2578 993.35
137 40 00	2518 659.59	2533 859.50	2549 059.47	2564 259.44	2579 459.43
137 42 30	2519 132.68	2534 332.08	2549 531.52	2564 730.97	2579 930.44
137 45 00	2519 610.73	2534 809.60	2550 008.52	2565 207.44	2580 406.38
137 47 30	2520 093.71	2535 292.06	2550 490.44	2565 688.83	2580 887.24
137 50 00	2520 581.64	2535 779.45	2550 977.30	2566 175.15	2581 373.01
137 52 30	2521 074.51	2536 271.78	2551 469.09	2566 666.40	2581 863.72
137 55 00	2521 572.33	2536 769.05	2551 965.82	2567 162.58	2582 359.35
137 57 30	2522 075.08	2537 271.27	2552 467.48	2567 663.69	2582 859.91
138 00 00	2522 582.79	2537 778.42	2552 974.08	2568 169.73	2583 365.39
138 02 30	2523 095.44	2538 290.51	2553 485.61	2568 680.70	2583 875.80
138 05 00	2523 613.03	2538 807.54	2554 002.08	2569 196.60	2584 391.13
138 07 30	2524 135.57	2539 329.52	2554 523.48	2569 717.43	2584 911.39
138 10 00	2524 663.06	2539 856.44	2555 049.83	2570 243.20	2585 436.57
138 12 30	2525 195.50	2540 388.30	2555 581.11	2570 773.90	2585 966.69
138 15 00	2525 732.88	2540 925.10	2556 117.33	2571 309.53	2586 501.74
138 17 30	2526 275.21	2541 466.84	2556 658.48	2571 850.10	2587 041.71
138 20 00	2526 822.49	2542 013.53	2557 204.58	2572 395.60	2587 586.61
138 22 30	2527 374.72	2542 565.16	2557 755.61	2572 946.04	2588 136.45
138 25 00	2527 931.89	2543 121.73	2558 311.59	2573 501.40	2588 691.21
138 27 30	2528 494.02	2543 683.26	2558 872.50	2574 061.71	2589 250.90
138 30 00	2529 061.10	2544 249.73	2559 438.36	2574 626.95	2589 815.52

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.29	-.35	-.40	-.44	-.48	-.52	-.55	-.58	-.60	-.61	-.62	-.62

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	58 50 00	58 52 30	58 55 00	58 57 30	59 00 00
133 30 00	2717 171.77	2717 130.31	2717 088.66	2717 046.83	2717 004.80
133 32 30	2709 275.78	2709 243.72	2709 211.49	2709 179.07	2709 146.45
133 35 00	2701 379.83	2701 357.18	2701 334.36	2701 311.35	2701 288.15
133 37 30	2693 483.91	2693 470.67	2693 457.26	2693 443.67	2693 429.90
133 40 00	2685 588.03	2685 584.21	2685 580.22	2685 576.04	2685 571.69
133 42 30	2677 692.21	2677 697.79	2677 703.21	2677 708.46	2677 713.52
133 45 00	2669 796.42	2669 811.42	2669 826.26	2669 840.92	2669 855.41
133 47 30	2661 900.68	2661 925.10	2661 949.35	2661 973.44	2661 997.35
133 50 00	2654 005.01	2654 038.84	2654 072.51	2654 106.01	2654 139.35
133 52 30	2646 109.37	2646 152.62	2646 195.71	2646 238.63	2646 281.40
133 55 00	2638 213.80	2638 266.47	2638 318.97	2638 371.32	2638 423.50
133 57 30	2630 318.29	2630 380.37	2630 442.30	2630 504.07	2630 565.68
134 00 00	2622 422.83	2622 494.33	2622 565.68	2622 636.88	2622 707.91
134 02 30	2614 527.43	2614 608.36	2614 689.13	2614 769.75	2614 850.22
134 05 00	2606 632.11	2606 722.46	2606 812.65	2606 902.70	2606 992.59
134 07 30	2598 736.85	2598 836.61	2598 936.23	2599 035.70	2599 135.03
134 10 00	2590 841.66	2590 950.84	2591 059.89	2591 168.79	2591 277.54
134 12 30	2582 946.55	2583 065.15	2583 183.62	2583 301.95	2583 420.14
134 15 00	2575 051.50	2575 179.53	2575 307.42	2575 435.18	2575 562.80
134 17 30	2567 156.53	2567 293.99	2567 431.31	2567 568.50	2567 705.55
134 20 00	2559 261.64	2559 408.53	2559 555.28	2559 701.90	2559 848.38
134 22 30	2551 366.84	2551 523.14	2551 679.32	2551 835.38	2551 991.29
134 25 00	2543 472.11	2543 637.85	2543 803.46	2543 968.94	2544 134.29
134 27 30	2535 577.48	2535 752.64	2535 927.68	2536 102.60	2536 277.38
134 30 00	2527 682.92	2527 867.52	2528 051.99	2528 236.34	2528 420.57
134 32 30	2519 788.47	2519 982.48	2520 176.39	2520 370.18	2520 563.84
134 35 00	2511 894.10	2512 097.55	2512 300.89	2512 504.12	2512 707.22
134 37 30	2503 999.83	2504 212.71	2504 425.48	2504 638.14	2504 850.69
134 40 00	2496 105.65	2496 327.96	2496 550.17	2496 772.27	2496 994.26
134 42 30	2488 211.58	2488 443.33	2488 674.97	2488 906.51	2489 137.94
134 45 00	2480 317.60	2480 558.78	2480 799.86	2481 040.84	2481 281.71
134 47 30	2472 423.73	2472 674.35	2472 924.86	2473 175.29	2473 425.60
134 50 00	2464 529.97	2464 790.02	2465 049.98	2465 309.84	2465 569.60
134 52 30	2456 636.32	2456 905.80	2457 175.20	2457 444.50	2457 713.70
134 55 00	2448 742.78	2449 021.70	2449 300.54	2449 579.29	2449 857.93
134 57 30	2440 849.34	2441 137.72	2441 425.99	2441 714.18	2442 002.27
135 00 00	2432 956.03	2433 253.84	2433 551.56	2433 849.19	2434 146.74
135 02 30	2425 062.84	2425 370.09	2425 677.25	2425 984.33	2426 291.32
135 05 00	2417 169.77	2417 486.45	2417 803.06	2418 119.58	2418 436.02
135 07 30	2409 276.82	2409 602.94	2409 929.00	2410 254.97	2410 580.86
135 10 00	2401 383.99	2401 719.56	2402 055.06	2402 390.48	2402 725.82
135 12 30	2393 491.29	2393 836.31	2394 181.25	2394 526.12	2394 870.92
135 15 00	2385 598.72	2385 953.18	2386 307.58	2386 661.90	2387 016.14
135 17 30	2377 706.29	2378 070.20	2378 434.04	2378 797.80	2379 161.50
135 20 00	2369 813.98	2370 187.34	2370 560.63	2370 933.85	2371 307.00
135 22 30	2361 921.82	2362 304.62	2362 687.36	2363 070.03	2363 452.64
135 25 00	2354 029.80	2354 422.05	2354 814.24	2355 206.37	2355 598.43
135 27 30	2346 137.91	2346 539.61	2346 941.25	2347 342.83	2347 744.36
135 30 00	2338 246.17	2338 657.32	2339 068.42	2339 479.45	2339 890.44
135 32 30	2330 354.58	2330 775.18	2331 195.73	2331 616.22	2332 036.66
135 35 00	2322 463.14	2322 893.19	2323 323.19	2323 753.14	2324 183.04
135 37 30	2314 571.85	2315 011.35	2315 450.81	2315 890.21	2316 329.57
135 40 00	2306 680.71	2307 129.67	2307 578.58	2308 027.45	2308 476.27
135 42 30	2298 789.73	2299 248.14	2299 706.51	2300 164.84	2300 623.12
135 45 00	2290 898.90	2291 366.77	2291 834.60	2292 302.38	2292 770.13
135 47 30	2283 008.24	2283 485.56	2283 962.85	2284 440.10	2284 917.30
135 50 00	2275 117.73	2275 604.51	2276 091.26	2276 577.97	2277 064.65
135 52 30	2267 227.39	2267 723.63	2268 219.84	2268 716.01	2269 212.15
135 55 00	2259 337.23	2259 842.93	2260 348.60	2260 854.23	2261 359.84
135 57 30	2251 447.23	2251 962.39	2252 477.52	2252 992.62	2253 507.69
136 00 00	2243 557.40	2244 082.02	2244 606.62	2245 131.19	2245 655.73

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	58 50 00	58 52 30	58 55 00	58 57 30	59 00 00
133 30 00	2557 142.35	2572 371.79	2587 601.48	2602 831.40	2618 061.58
133 32 30	2557 123.33	2572 352.71	2587 582.32	2602 812.17	2618 042.27
133 35 00	2557 109.20	2572 338.50	2587 568.03	2602 797.81	2618 027.83
133 37 30	2557 099.95	2572 329.17	2587 558.62	2602 788.30	2618 018.24
133 40 00	2557 095.57	2572 324.71	2587 554.07	2602 783.67	2618 013.52
133 42 30	2557 096.07	2572 325.12	2587 554.39	2602 783.90	2618 013.66
133 45 00	2557 101.45	2572 330.41	2587 559.59	2602 789.00	2618 018.66
133 47 30	2557 111.72	2572 340.57	2587 569.65	2602 798.96	2618 028.51
133 50 00	2557 126.86	2572 355.61	2587 584.59	2602 813.80	2618 043.24
133 52 30	2557 146.88	2572 375.53	2587 604.39	2602 833.49	2618 062.82
133 55 00	2557 171.79	2572 400.33	2587 629.08	2602 858.06	2618 087.28
133 57 30	2557 201.57	2572 430.00	2587 658.64	2602 887.49	2618 116.59
134 00 00	2557 236.24	2572 464.55	2587 693.06	2602 921.80	2618 150.77
134 02 30	2557 275.79	2572 503.98	2587 732.36	2602 960.97	2618 189.81
134 05 00	2557 320.23	2572 548.28	2587 776.54	2603 005.02	2618 233.72
134 07 30	2557 369.54	2572 597.47	2587 825.59	2603 053.93	2618 282.50
134 10 00	2557 423.75	2572 651.53	2587 879.51	2603 107.71	2618 336.13
134 12 30	2557 482.84	2572 710.47	2587 938.32	2603 166.37	2618 394.65
134 15 00	2557 546.81	2572 774.30	2588 001.99	2603 229.90	2618 458.02
134 17 30	2557 615.66	2572 843.01	2588 070.55	2603 298.29	2618 526.27
134 20 00	2557 689.41	2572 916.60	2588 143.97	2603 371.57	2618 599.38
134 22 30	2557 768.03	2572 995.06	2588 222.28	2603 449.71	2618 677.36
134 25 00	2557 851.55	2573 078.42	2588 305.47	2603 532.73	2618 760.21
134 27 30	2557 939.95	2573 166.65	2588 393.53	2603 620.62	2618 847.93
134 30 00	2558 033.25	2573 259.77	2588 486.48	2603 713.39	2618 940.51
134 32 30	2558 131.42	2573 357.77	2588 584.30	2603 811.03	2619 037.97
134 35 00	2558 234.49	2573 460.66	2588 687.00	2603 913.55	2619 140.29
134 37 30	2558 342.45	2573 568.43	2588 794.58	2604 020.94	2619 247.49
134 40 00	2558 455.29	2573 681.09	2588 907.05	2604 133.21	2619 359.57
134 42 30	2558 573.03	2573 798.63	2589 024.39	2604 250.35	2619 476.51
134 45 00	2558 695.66	2573 921.05	2589 146.62	2604 372.37	2619 598.33
134 47 30	2558 823.18	2574 048.36	2589 273.72	2604 499.27	2619 725.01
134 50 00	2558 955.58	2574 180.56	2589 405.71	2604 631.04	2619 856.58
134 52 30	2559 092.88	2574 317.65	2589 542.58	2604 767.70	2619 993.01
134 55 00	2559 235.08	2574 459.63	2589 684.34	2604 909.24	2620 134.33
134 57 30	2559 382.16	2574 606.49	2589 830.98	2605 055.65	2620 280.51
135 00 00	2559 534.15	2574 758.24	2589 982.50	2605 206.95	2620 431.57
135 02 30	2559 691.02	2574 914.89	2590 138.91	2605 363.12	2620 587.50
135 05 00	2559 852.78	2575 076.42	2590 300.21	2605 524.17	2620 748.31
135 07 30	2560 019.45	2575 242.84	2590 466.38	2605 690.10	2620 914.00
135 10 00	2560 191.00	2575 414.15	2590 637.45	2605 860.92	2621 084.57
135 12 30	2560 367.45	2575 590.35	2590 813.40	2606 036.61	2621 260.01
135 15 00	2560 548.80	2575 771.44	2590 994.23	2606 217.19	2621 440.33
135 17 30	2560 735.05	2575 957.43	2591 179.96	2606 402.66	2621 625.53
135 20 00	2560 926.19	2576 148.31	2591 370.58	2606 593.00	2621 815.61
135 22 30	2561 122.22	2576 344.08	2591 566.07	2606 788.23	2622 010.56
135 25 00	2561 323.16	2576 544.74	2591 766.47	2606 988.35	2622 210.40
135 27 30	2561 528.99	2576 750.30	2591 971.74	2607 193.34	2622 415.11
135 30 00	2561 739.73	2576 960.75	2592 181.91	2607 403.22	2622 624.71
135 32 30	2561 955.36	2577 176.09	2592 396.96	2607 618.00	2622 839.18
135 35 00	2562 175.89	2577 396.34	2592 616.91	2607 837.65	2623 058.54
135 37 30	2562 401.32	2577 621.47	2592 841.76	2608 062.19	2623 282.78
135 40 00	2562 631.65	2577 851.50	2593 071.49	2608 291.62	2623 511.91
135 42 30	2562 866.89	2578 086.44	2593 306.11	2608 525.93	2623 745.91
135 45 00	2563 107.02	2578 326.26	2593 545.63	2608 765.13	2623 984.79
135 47 30	2563 352.06	2578 570.98	2593 790.03	2609 009.22	2624 228.57
135 50 00	2563 601.99	2578 820.60	2594 039.33	2609 258.20	2624 477.22
135 52 30	2563 856.84	2579 075.12	2594 293.53	2609 512.07	2624 730.76
135 55 00	2564 116.58	2579 334.54	2594 552.62	2609 770.83	2624 989.19
135 57 30	2564 381.23	2579 598.86	2594 816.60	2610 034.47	2625 252.49
136 00 00	2564 650.78	2579 868.07	2595 085.47	2610 303.01	2625 520.69

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.34	-.39	-.44	-.48	-.51	-.54	-.57	-.59	-.60	-.61	-.61

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X — FEET

λ \ φ	58 50 00	58 52 30	58 55 00	58 57 30	59 00 00
136 00 00	2243 557.40	2244 082.02	2244 606.62	2245 131.19	2245 655.73
136 02 30	2235 667.76	2236 201.84	2236 735.89	2237 269.93	2237 803.94
136 05 00	2227 778.28	2228 321.82	2228 865.35	2229 408.84	2229 952.33
136 07 30	2219 888.99	2220 441.99	2220 994.98	2221 547.95	2222 100.90
136 10 00	2211 999.89	2212 562.35	2213 124.81	2213 687.24	2214 249.66
136 12 30	2204 110.96	2204 682.89	2205 254.81	2205 826.71	2206 398.61
136 15 00	2196 222.21	2196 803.61	2197 385.00	2197 966.38	2198 547.75
136 17 30	2188 333.66	2188 924.53	2189 515.39	2190 106.24	2190 697.08
136 20 00	2180 445.31	2181 045.63	2181 645.96	2182 246.29	2182 846.60
136 22 30	2172 557.14	2173 166.94	2173 776.74	2174 386.54	2174 996.33
136 25 00	2164 669.18	2165 288.44	2165 907.71	2166 526.99	2167 146.25
136 27 30	2156 781.40	2157 410.14	2158 038.89	2158 667.63	2159 296.38
136 30 00	2148 893.84	2149 532.04	2150 170.26	2150 808.48	2151 446.70
136 32 30	2141 006.47	2141 654.16	2142 301.85	2142 949.55	2143 597.25
136 35 00	2133 119.31	2133 776.46	2134 433.63	2135 090.81	2135 747.99
136 37 30	2125 232.36	2125 898.99	2126 565.63	2127 232.29	2127 898.95
136 40 00	2117 345.63	2118 021.73	2118 697.85	2119 373.98	2120 050.13
136 42 30	2109 459.10	2110 144.68	2110 830.28	2111 515.89	2112 201.52
136 45 00	2101 572.79	2102 267.84	2102 962.92	2103 658.01	2104 353.12
136 47 30	2093 686.70	2094 391.23	2095 095.79	2095 800.37	2096 504.96
136 50 00	2085 800.83	2086 514.84	2087 228.87	2087 942.93	2088 657.01
136 52 30	2077 915.18	2078 638.67	2079 362.19	2080 085.73	2080 809.30
136 55 00	2070 029.76	2070 762.73	2071 495.72	2072 228.75	2072 961.81
136 57 30	2062 144.57	2062 887.01	2063 629.49	2064 372.01	2065 114.55
137 00 00	2054 259.60	2055 011.54	2055 763.50	2056 515.50	2057 267.53
137 02 30	2046 374.87	2047 136.28	2047 897.73	2048 659.22	2049 420.73
137 05 00	2038 490.38	2039 261.27	2040 032.20	2040 803.18	2041 574.18
137 07 30	2030 606.12	2031 386.49	2032 166.92	2032 947.38	2033 727.88
137 10 00	2022 722.10	2023 511.96	2024 301.87	2025 091.82	2025 881.81
137 12 30	2014 838.32	2015 637.66	2016 437.06	2017 236.51	2018 035.99
137 15 00	2006 954.79	2007 763.62	2008 572.51	2009 381.44	2010 190.43
137 17 30	1999 071.51	1999 889.83	2000 708.20	2001 526.63	2002 345.10
137 20 00	1991 188.47	1992 016.28	1992 844.15	1993 672.07	1994 500.03
137 22 30	1983 305.70	1984 142.99	1984 980.35	1985 817.76	1986 655.23
137 25 00	1975 423.17	1976 269.95	1977 116.80	1977 963.71	1978 810.67
137 27 30	1967 540.90	1968 397.18	1969 253.52	1970 109.92	1970 966.38
137 30 00	1959 658.89	1960 524.66	1961 390.50	1962 256.40	1963 122.35
137 32 30	1951 777.14	1952 652.41	1953 527.73	1954 403.13	1955 278.59
137 35 00	1943 895.66	1944 780.41	1945 665.24	1946 550.14	1947 435.09
137 37 30	1936 014.44	1936 908.69	1937 803.02	1938 697.41	1939 591.87
137 40 00	1928 133.50	1929 037.24	1929 941.06	1930 844.96	1931 748.92
137 42 30	1920 252.82	1921 166.06	1922 079.38	1922 992.77	1923 906.24
137 45 00	1912 372.43	1913 295.16	1914 217.98	1915 140.88	1916 063.84
137 47 30	1904 492.30	1905 424.54	1906 356.86	1907 289.25	1908 221.72
137 50 00	1896 612.45	1897 554.19	1898 496.01	1899 437.91	1900 379.88
137 52 30	1888 732.89	1889 684.13	1890 635.45	1891 586.86	1892 538.34
137 55 00	1880 853.62	1881 814.35	1882 775.17	1883 736.08	1884 697.07
137 57 30	1872 974.62	1873 944.85	1874 915.18	1875 885.60	1876 856.10
138 00 00	1865 095.93	1866 075.66	1867 055.49	1868 035.41	1869 015.42
138 02 30	1857 217.51	1858 206.75	1859 196.09	1860 185.52	1861 175.04
138 05 00	1849 339.40	1850 338.15	1851 336.99	1852 335.92	1853 334.94
138 07 30	1841 461.58	1842 469.83	1843 478.18	1844 486.62	1845 495.16
138 10 00	1833 584.06	1834 601.81	1835 619.67	1836 637.63	1837 655.68
138 12 30	1825 706.84	1826 734.10	1827 761.47	1828 788.93	1829 816.49
138 15 00	1817 829.93	1818 866.70	1819 903.57	1820 940.55	1821 977.63
138 17 30	1809 953.32	1810 999.60	1812 045.98	1813 092.47	1814 139.06
138 20 00	1802 077.03	1803 132.81	1804 188.70	1805 244.71	1806 300.81
138 22 30	1794 201.04	1795 266.34	1796 331.74	1797 397.26	1798 462.88
138 25 00	1786 325.37	1787 400.18	1788 475.09	1789 550.12	1790 625.26
138 27 30	1778 450.02	1779 534.33	1780 618.76	1781 703.30	1782 787.96
138 30 00	1770 574.98	1771 668.81	1772 762.76	1773 856.82	1774 950.99

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.03	-.03

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	58 50 00	58 52 30	58 55 00	58 57 30	59 00 00
136 00 00	2564 650.78	2579 868.07	2595 085.47	2610 303.01	2625 520.69
136 02 30	2564 925.23	2580 142.19	2595 359.25	2610 576.44	2625 793.77
136 05 00	2565 204.60	2580 421.20	2595 637.92	2610 854.76	2626 071.74
136 07 30	2565 488.87	2580 705.12	2595 921.49	2611 137.97	2626 354.59
136 10 00	2565 778.04	2580 993.94	2596 209.95	2611 426.07	2626 642.34
136 12 30	2566 072.12	2581 287.66	2596 503.30	2611 719.07	2626 934.96
136 15 00	2566 371.10	2581 586.28	2596 801.56	2612 016.96	2627 232.48
136 17 30	2566 674.99	2581 889.80	2597 104.72	2612 319.74	2627 534.89
136 20 00	2566 983.80	2582 198.23	2597 412.77	2612 627.42	2627 842.19
136 22 30	2567 297.51	2582 511.57	2597 725.72	2612 939.99	2628 154.37
136 25 00	2567 616.12	2582 829.80	2598 043.57	2613 257.45	2628 471.45
136 27 30	2567 939.65	2583 152.94	2598 366.32	2613 579.81	2628 793.41
136 30 00	2568 268.09	2583 480.99	2598 693.98	2613 907.07	2629 120.27
136 32 30	2568 601.44	2583 813.94	2599 026.52	2614 239.21	2629 452.02
136 35 00	2568 939.69	2584 151.79	2599 363.98	2614 576.26	2629 788.66
136 37 30	2569 282.86	2584 494.56	2599 706.33	2614 918.21	2630 130.20
136 40 00	2569 630.94	2584 842.23	2600 053.59	2615 265.05	2630 476.62
136 42 30	2569 983.93	2585 194.80	2600 405.75	2615 616.79	2630 827.93
136 45 00	2570 341.83	2585 552.29	2600 762.81	2615 973.43	2631 184.15
136 47 30	2570 704.65	2585 914.68	2601 124.78	2616 334.96	2631 545.26
136 50 00	2571 072.38	2586 281.98	2601 491.65	2616 701.40	2631 911.26
136 52 30	2571 445.02	2586 654.19	2601 863.42	2617 072.74	2632 282.15
136 55 00	2571 822.58	2587 031.31	2602 240.10	2617 448.97	2632 657.94
136 57 30	2572 205.06	2587 413.34	2602 621.68	2617 830.11	2633 038.63
137 00 00	2572 592.44	2587 800.27	2603 008.17	2618 216.14	2633 424.21
137 02 30	2572 984.74	2588 192.13	2603 399.57	2618 607.09	2633 814.69
137 05 00	2573 381.96	2588 588.89	2603 795.87	2619 002.93	2634 210.07
137 07 30	2573 784.10	2588 990.56	2604 197.08	2619 403.67	2634 610.34
137 10 00	2574 191.14	2589 397.15	2604 603.19	2619 809.31	2635 015.51
137 12 30	2574 603.12	2589 808.64	2605 014.22	2620 219.86	2635 425.59
137 15 00	2575 020.00	2590 225.05	2605 430.15	2620 635.31	2635 840.55
137 17 30	2575 441.80	2590 646.37	2605 850.99	2621 055.67	2636 260.42
137 20 00	2575 868.53	2591 072.61	2606 276.74	2621 480.93	2636 685.19
137 22 30	2576 300.17	2591 503.76	2606 707.40	2621 911.09	2637 114.86
137 25 00	2576 736.73	2591 939.83	2607 142.97	2622 346.16	2637 549.43
137 27 30	2577 178.21	2592 380.81	2607 583.45	2622 786.14	2637 988.89
137 30 00	2577 624.61	2592 826.71	2608 028.84	2623 231.02	2638 433.27
137 32 30	2578 075.94	2593 277.52	2608 479.14	2623 680.81	2638 882.54
137 35 00	2578 532.18	2593 733.25	2608 934.36	2624 135.51	2639 336.71
137 37 30	2578 993.35	2594 193.90	2609 394.48	2624 595.11	2639 795.79
137 40 00	2579 459.43	2594 659.47	2609 859.52	2625 059.62	2640 259.77
137 42 30	2579 930.44	2595 129.95	2610 329.47	2625 529.04	2640 728.66
137 45 00	2580 406.38	2595 605.35	2610 804.33	2626 003.36	2641 202.44
137 47 30	2580 887.24	2596 085.67	2611 284.12	2626 482.60	2641 681.14
137 50 00	2581 373.01	2596 570.91	2611 768.81	2626 966.75	2642 164.73
137 52 30	2581 863.72	2597 061.06	2612 258.41	2627 455.80	2642 653.23
137 55 00	2582 359.35	2597 556.14	2612 752.94	2627 949.77	2643 146.64
137 57 30	2582 859.91	2598 056.14	2613 252.39	2628 448.65	2643 644.96
138 00 00	2583 365.39	2598 561.06	2613 756.73	2628 952.44	2644 148.18
138 02 30	2583 875.80	2599 070.90	2614 266.01	2629 461.14	2644 656.31
138 05 00	2584 391.13	2599 585.66	2614 780.20	2629 974.76	2645 169.34
138 07 30	2584 911.39	2600 105.35	2615 299.30	2630 493.28	2645 687.28
138 10 00	2585 436.57	2600 629.96	2615 823.33	2631 016.72	2646 210.14
138 12 30	2585 966.69	2601 159.49	2616 352.27	2631 545.07	2646 737.90
138 15 00	2586 501.74	2601 693.93	2616 886.13	2632 078.34	2647 270.57
138 17 30	2587 041.71	2602 233.32	2617 424.91	2632 616.52	2647 808.14
138 20 00	2587 586.61	2602 777.62	2617 968.61	2633 159.61	2648 350.63
138 22 30	2588 136.45	2603 326.84	2618 517.23	2633 707.62	2648 898.03
138 25 00	2588 691.21	2603 881.00	2619 070.77	2634 260.55	2649 450.34
138 27 30	2589 250.90	2604 440.08	2619 629.23	2634 818.39	2650 007.56
138 30 00	2589 815.52	2605 004.08	2620 192.62	2635 381.15	2650 569.69

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.34	-.39	-.44	-.48	-.51	-.54	-.57	-.59	-.60	-.61	-.61

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 00 00	59 02 30	59 05 00	59 07 30	59 10 00
134 00 00	2622 707.91	2622 778.79	2622 849.50	2622 920.04	2622 990.40
134 02 30	2614 850.22	2614 930.52	2615 010.66	2615 090.64	2615 170.44
134 05 00	2606 992.59	2607 082.33	2607 171.91	2607 261.31	2607 350.56
134 07 30	2599 135.03	2599 234.20	2599 333.21	2599 432.06	2599 530.74
134 10 00	2591 277.54	2591 386.15	2591 494.59	2591 602.88	2591 711.00
134 12 30	2583 420.14	2583 538.17	2583 656.06	2583 773.78	2583 891.35
134 15 00	2575 562.80	2575 690.28	2575 817.59	2575 944.76	2576 071.77
134 17 30	2567 705.55	2567 842.46	2567 979.22	2568 115.83	2568 252.28
134 20 00	2559 848.38	2559 994.73	2560 140.93	2560 286.98	2560 432.88
134 22 30	2551 991.29	2552 147.07	2552 302.72	2552 458.21	2552 613.56
134 25 00	2544 134.29	2544 299.51	2544 464.59	2544 629.53	2544 794.32
134 27 30	2536 277.38	2536 452.04	2536 626.57	2536 800.95	2536 975.19
134 30 00	2528 420.57	2528 604.67	2528 788.63	2528 972.46	2529 156.15
134 32 30	2520 563.84	2520 757.38	2520 950.79	2521 144.07	2521 337.20
134 35 00	2512 707.22	2512 910.20	2513 113.05	2513 315.78	2513 518.37
134 37 30	2504 850.69	2505 063.11	2505 275.41	2505 487.58	2505 699.62
134 40 00	2496 994.26	2497 216.12	2497 437.87	2497 659.49	2497 880.98
134 42 30	2489 137.94	2489 369.25	2489 600.43	2489 831.51	2490 062.45
134 45 00	2481 281.71	2481 522.47	2481 763.11	2482 003.63	2482 244.03
134 47 30	2473 425.60	2473 675.80	2473 925.89	2474 175.86	2474 425.71
134 50 00	2465 569.60	2465 829.25	2466 088.79	2466 348.21	2466 607.51
134 52 30	2457 713.70	2457 982.80	2458 251.79	2458 520.67	2458 789.43
134 55 00	2449 857.93	2450 136.48	2450 414.92	2450 693.25	2450 971.47
134 57 30	2442 002.27	2442 290.27	2442 578.17	2442 865.95	2443 153.62
135 00 00	2434 146.74	2434 444.18	2434 741.53	2435 038.77	2435 335.90
135 02 30	2426 291.32	2426 598.22	2426 905.01	2427 211.71	2427 518.31
135 05 00	2418 436.02	2418 752.37	2419 068.63	2419 384.78	2419 700.84
135 07 30	2410 580.86	2410 906.66	2411 232.37	2411 557.98	2411 883.50
135 10 00	2402 725.82	2403 061.08	2403 396.24	2403 731.31	2404 066.29
135 12 30	2394 870.92	2395 215.62	2395 560.24	2395 904.78	2396 249.22
135 15 00	2387 016.14	2387 370.30	2387 724.38	2388 078.38	2388 432.28
135 17 30	2379 161.50	2379 525.13	2379 888.67	2380 252.12	2380 615.48
135 20 00	2371 307.00	2371 680.08	2372 053.08	2372 426.00	2372 798.83
135 22 30	2363 452.64	2363 835.18	2364 217.64	2364 600.02	2364 982.32
135 25 00	2355 598.43	2355 990.42	2356 382.35	2356 774.19	2357 165.95
135 27 30	2347 744.36	2348 145.81	2348 547.19	2348 948.50	2349 349.74
135 30 00	2339 890.44	2340 301.35	2340 712.20	2341 122.97	2341 533.67
135 32 30	2332 036.66	2332 457.04	2332 877.35	2333 297.59	2333 717.76
135 35 00	2324 183.04	2324 612.88	2325 042.65	2325 472.36	2325 902.00
135 37 30	2316 329.57	2316 768.87	2317 208.11	2317 647.29	2318 086.40
135 40 00	2308 476.27	2308 925.03	2309 373.74	2309 822.38	2310 270.97
135 42 30	2300 623.12	2301 081.35	2301 539.52	2301 997.64	2302 455.69
135 45 00	2292 770.13	2293 237.82	2293 705.46	2294 173.05	2294 640.58
135 47 30	2284 917.30	2285 394.47	2285 871.58	2286 348.64	2286 825.64
135 50 00	2277 064.65	2277 551.27	2278 037.86	2278 524.39	2279 010.86
135 52 30	2269 212.15	2269 708.25	2270 204.30	2270 700.30	2271 196.26
135 55 00	2261 359.84	2261 865.40	2262 370.93	2262 876.41	2263 381.83
135 57 30	2253 507.69	2254 022.73	2254 537.73	2255 052.68	2255 567.59
136 00 00	2245 655.73	2246 180.23	2246 704.70	2247 229.13	2247 753.52
136 02 30	2237 803.94	2238 337.92	2238 871.86	2239 405.77	2239 939.63
136 05 00	2229 952.33	2230 495.78	2231 039.20	2231 582.58	2232 125.92
136 07 30	2222 100.90	2222 653.83	2223 206.72	2223 759.58	2224 312.40
136 10 00	2214 249.66	2214 812.06	2215 374.43	2215 936.77	2216 499.08
136 12 30	2206 398.61	2206 970.48	2207 542.33	2208 114.15	2208 685.94
136 15 00	2198 547.75	2199 129.10	2199 710.42	2200 291.72	2200 872.99
136 17 30	2190 697.08	2191 287.90	2191 878.71	2192 469.49	2193 060.25
136 20 00	2182 846.60	2183 446.91	2184 047.19	2184 647.46	2185 247.70
136 22 30	2174 996.33	2175 606.10	2176 215.87	2176 825.62	2177 435.35
136 25 00	2167 146.25	2167 765.51	2168 384.76	2169 003.99	2169 623.21
136 27 30	2159 296.38	2159 925.12	2160 553.84	2161 182.56	2161 811.27
136 30 00	2151 446.70	2152 084.92	2152 723.14	2153 361.34	2153 999.53

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 00 00	59 02 30	59 05 00	59 07 30	59 10 00
134 00 00	2618 150.77	2633 379.95	2648 609.36	2663 839.00	2679 068.87
134 02 30	2618 189.81	2633 418.86	2648 648.14	2663 877.65	2679 107.38
134 05 00	2618 233.72	2633 462.64	2648 691.78	2663 921.14	2679 150.74
134 07 30	2618 282.50	2633 511.27	2648 740.27	2663 969.49	2679 198.94
134 10 00	2618 336.13	2633 564.77	2648 793.62	2664 022.69	2679 251.99
134 12 30	2618 394.65	2633 623.13	2648 851.83	2664 080.75	2679 309.89
134 15 00	2618 458.02	2633 686.35	2648 914.90	2664 143.66	2679 372.64
134 17 30	2618 526.27	2633 754.44	2648 982.82	2664 211.42	2679 440.24
134 20 00	2618 599.38	2633 827.39	2649 055.61	2664 284.04	2679 512.70
134 22 30	2618 677.36	2633 905.19	2649 133.25	2664 361.51	2679 589.99
134 25 00	2618 760.21	2633 987.88	2649 215.75	2664 443.84	2679 672.14
134 27 30	2618 847.93	2634 075.42	2649 303.11	2664 531.03	2679 759.15
134 30 00	2618 940.51	2634 167.83	2649 395.34	2664 623.07	2679 851.00
134 32 30	2619 037.97	2634 265.10	2649 492.43	2664 719.96	2679 947.71
134 35 00	2619 140.29	2634 367.23	2649 594.38	2664 821.72	2680 049.27
134 37 30	2619 247.49	2634 474.24	2649 701.18	2664 928.33	2680 155.68
134 40 00	2619 359.57	2634 586.11	2649 812.86	2665 039.80	2680 266.95
134 42 30	2619 476.51	2634 702.86	2649 929.40	2665 156.12	2680 383.06
134 45 00	2619 598.33	2634 824.46	2650 050.79	2665 277.31	2680 504.04
134 47 30	2619 725.01	2634 950.94	2650 177.05	2665 403.36	2680 629.87
134 50 00	2619 856.58	2635 082.29	2650 308.18	2665 534.27	2680 760.55
134 52 30	2619 993.01	2635 218.50	2650 444.17	2665 670.03	2680 896.09
134 55 00	2620 134.33	2635 359.58	2650 585.03	2665 810.66	2681 036.49
134 57 30	2620 280.51	2635 505.54	2650 730.75	2665 956.15	2681 181.75
135 00 00	2620 431.57	2635 656.36	2650 881.34	2666 106.51	2681 331.85
135 02 30	2620 587.50	2635 812.06	2651 036.79	2666 261.71	2681 486.82
135 05 00	2620 748.31	2635 972.63	2651 197.12	2666 421.79	2681 646.64
135 07 30	2620 914.00	2636 138.07	2651 362.31	2666 586.73	2681 811.33
135 10 00	2621 084.57	2636 308.38	2651 532.36	2666 756.53	2681 980.87
135 12 30	2621 260.01	2636 483.57	2651 707.29	2666 931.19	2682 155.27
135 15 00	2621 440.33	2636 663.62	2651 887.08	2667 110.72	2682 334.53
135 17 30	2621 625.53	2636 848.56	2652 071.75	2667 295.11	2682 518.65
135 20 00	2621 815.61	2637 038.36	2652 261.28	2667 484.37	2682 707.63
135 22 30	2622 010.56	2637 233.04	2652 455.69	2667 678.50	2682 901.47
135 25 00	2622 210.40	2637 432.60	2652 654.95	2667 877.49	2683 100.18
135 27 30	2622 415.11	2637 637.03	2652 859.10	2668 081.34	2683 303.74
135 30 00	2622 624.71	2637 846.33	2653 068.12	2668 290.06	2683 512.17
135 32 30	2622 839.18	2638 060.52	2653 282.00	2668 503.65	2683 725.46
135 35 00	2623 058.54	2638 279.58	2653 500.76	2668 722.11	2683 943.61
135 37 30	2623 282.78	2638 503.51	2653 724.39	2668 945.43	2684 166.62
135 40 00	2623 511.91	2638 732.33	2653 952.90	2669 173.62	2684 394.51
135 42 30	2623 745.91	2638 966.02	2654 186.28	2669 406.69	2684 627.25
135 45 00	2623 984.79	2639 204.59	2654 424.53	2669 644.62	2684 864.86
135 47 30	2624 228.57	2639 448.04	2654 667.65	2669 887.42	2685 107.33
135 50 00	2624 477.22	2639 696.37	2654 915.65	2670 135.09	2685 354.67
135 52 30	2624 730.76	2639 949.58	2655 168.53	2670 387.63	2685 606.87
135 55 00	2624 989.19	2640 207.67	2655 426.28	2670 645.04	2685 863.94
135 57 30	2625 252.49	2640 470.63	2655 688.91	2670 907.33	2686 125.88
136 00 00	2625 520.69	2640 738.48	2655 956.41	2671 174.48	2686 392.69
136 02 30	2625 793.77	2641 011.21	2656 228.80	2671 446.51	2686 664.36
136 05 00	2626 071.74	2641 288.83	2656 506.05	2671 723.41	2686 940.90
136 07 30	2626 354.59	2641 571.33	2656 788.19	2672 005.18	2687 222.31
136 10 00	2626 642.34	2641 858.71	2657 075.20	2672 291.83	2687 508.58
136 12 30	2626 934.96	2642 150.97	2657 367.09	2672 583.35	2687 799.73
136 15 00	2627 232.48	2642 448.12	2657 663.87	2672 879.74	2688 095.75
136 17 30	2627 534.89	2642 750.14	2657 965.52	2673 181.01	2688 396.64
136 20 00	2627 842.19	2643 057.06	2658 272.05	2673 487.16	2688 702.39
136 22 30	2628 154.37	2643 368.86	2658 583.46	2673 798.18	2689 013.02
136 25 00	2628 471.45	2643 685.54	2658 899.75	2674 114.08	2689 328.52
136 27 30	2628 793.41	2644 007.12	2659 220.92	2674 434.85	2689 648.90
136 30 00	2629 120.27	2644 333.57	2659 546.98	2674 760.50	2689 974.14

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.34	-.39	-.44	-.48	-.51	-.54	-.57	-.59	-.60	-.61	-.61

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 00 00	59 02 30	59 05 00	59 07 30	59 10 00
136 30 00	2151 446.70	2152 084.92	2152 723.14	2153 361.34	2153 999.53
136 32 30	2143 597.25	2144 244.95	2144 892.65	2145 540.33	2146 188.01
136 35 00	2135 747.99	2136 405.18	2137 062.36	2137 719.54	2138 376.70
136 37 30	2127 898.95	2128 565.62	2129 232.29	2129 898.95	2130 565.61
136 40 00	2120 050.13	2120 726.28	2121 402.44	2122 078.59	2122 754.74
136 42 30	2112 201.52	2112 887.15	2113 572.79	2114 258.44	2114 944.08
136 45 00	2104 353.12	2105 048.25	2105 743.37	2106 438.51	2107 133.65
136 47 30	2096 504.96	2097 209.57	2097 914.19	2098 618.81	2099 323.45
136 50 00	2088 657.01	2089 371.11	2090 085.22	2090 799.34	2091 513.46
136 52 30	2080 809.30	2081 532.88	2082 256.49	2082 980.10	2083 703.71
136 55 00	2072 961.81	2073 694.88	2074 427.97	2075 161.08	2075 894.20
136 57 30	2065 114.55	2065 857.11	2066 599.70	2067 342.29	2068 084.91
137 00 00	2057 267.53	2058 019.58	2058 771.66	2059 523.75	2060 275.86
137 02 30	2049 420.73	2050 182.28	2050 943.85	2051 705.45	2052 467.06
137 05 00	2041 574.18	2042 345.22	2043 116.29	2043 887.38	2044 658.50
137 07 30	2033 727.88	2034 508.41	2035 288.98	2036 069.56	2036 850.18
137 10 00	2025 881.81	2026 671.84	2027 461.90	2028 251.99	2029 042.10
137 12 30	2018 035.99	2018 835.52	2019 635.07	2020 434.66	2021 234.27
137 15 00	2010 190.43	2010 999.45	2011 808.50	2012 617.58	2013 426.70
137 17 30	2002 345.10	2003 163.62	2003 982.17	2004 800.76	2005 619.38
137 20 00	1994 500.03	1995 328.05	1996 156.10	1996 984.20	1997 812.32
137 22 30	1986 655.23	1987 492.74	1988 330.29	1989 167.89	1990 005.52
137 25 00	1978 810.67	1979 657.68	1980 504.74	1981 351.84	1982 198.98
137 27 30	1970 966.38	1971 822.89	1972 679.45	1973 536.05	1974 392.70
137 30 00	1963 122.35	1963 988.37	1964 854.43	1965 720.54	1966 586.69
137 32 30	1955 278.59	1956 154.10	1957 029.67	1957 905.29	1958 780.94
137 35 00	1947 435.09	1948 320.11	1949 205.18	1950 090.30	1950 975.47
137 37 30	1939 591.87	1940 486.39	1941 380.97	1942 275.60	1943 170.28
137 40 00	1931 748.92	1932 652.94	1933 557.02	1934 461.16	1935 365.35
137 42 30	1923 906.24	1924 819.77	1925 733.36	1926 647.01	1927 560.71
137 45 00	1916 063.84	1916 986.87	1917 909.98	1918 833.13	1919 756.35
137 47 30	1908 221.72	1909 154.26	1910 086.87	1911 019.54	1911 952.28
137 50 00	1900 379.88	1901 321.93	1902 264.05	1903 206.23	1904 148.48
137 52 30	1892 538.34	1893 489.89	1894 441.52	1895 393.22	1896 344.98
137 55 00	1884 697.07	1885 658.14	1886 619.28	1887 580.49	1888 541.76
137 57 30	1876 856.10	1877 826.68	1878 797.33	1879 768.05	1880 738.84
138 00 00	1869 015.42	1869 995.51	1870 975.67	1871 955.91	1872 936.22
138 02 30	1861 175.04	1862 164.64	1863 154.32	1864 144.07	1865 133.90
138 05 00	1853 334.94	1854 334.06	1855 333.25	1856 332.52	1857 331.87
138 07 30	1845 495.16	1846 503.78	1847 512.50	1848 521.29	1849 530.15
138 10 00	1837 655.68	1838 673.81	1839 692.04	1840 710.35	1841 728.74
138 12 30	1829 816.49	1830 844.15	1831 871.89	1832 899.72	1833 927.62
138 15 00	1821 977.63	1823 014.80	1824 052.05	1825 089.40	1826 126.84
138 17 30	1814 139.06	1815 185.75	1816 232.53	1817 279.40	1818 326.35
138 20 00	1806 300.81	1807 357.02	1808 413.32	1809 469.71	1810 526.19
138 22 30	1798 462.88	1799 528.61	1800 594.42	1801 660.34	1802 726.35
138 25 00	1790 625.26	1791 700.50	1792 775.85	1793 851.28	1794 926.81
138 27 30	1782 787.96	1783 872.72	1784 957.59	1786 042.55	1787 127.61
138 30 00	1774 950.99	1776 045.27	1777 139.66	1778 234.15	1779 328.73
138 32 30	1767 114.34	1768 218.15	1769 322.06	1770 426.07	1771 530.18
138 35 00	1759 278.02	1760 391.34	1761 504.78	1762 618.32	1763 731.96
138 37 30	1751 442.03	1752 564.88	1753 687.84	1754 810.91	1755 934.08
138 40 00	1743 606.37	1744 738.75	1745 871.24	1747 003.83	1748 136.52
138 42 30	1735 771.05	1736 912.95	1738 054.96	1739 197.08	1740 339.31
138 45 00	1727 936.07	1729 087.49	1730 239.03	1731 390.68	1732 542.44
138 47 30	1720 101.42	1721 262.37	1722 423.44	1723 584.62	1724 745.91
138 50 00	1712 267.12	1713 437.60	1714 608.19	1715 778.91	1716 949.74
138 52 30	1704 433.16	1705 613.16	1706 793.29	1707 973.54	1709 153.90
138 55 00	1696 599.55	1697 789.08	1698 978.74	1700 168.52	1701 358.42
138 57 30	1688 766.29	1689 965.35	1691 164.54	1692 363.86	1693 563.30
139 00 00	1680 933.38	1682 141.98	1683 350.70	1684 559.55	1685 768.52

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.04	-.04

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 00 00	59 02 30	59 05 00	59 07 30	59 10 00
136 30 00	2629 120.27	2644 333.57	2659 546.98	2674 760.50	2689 974.14
136 32 30	2629 452.02	2644 664.92	2659 877.92	2675 091.03	2690 304.25
136 35 00	2629 788.66	2645 001.15	2660 213.74	2675 426.44	2690 639.24
136 37 30	2630 130.20	2645 342.27	2660 554.44	2675 766.72	2690 979.10
136 40 00	2630 476.62	2645 688.27	2660 900.02	2676 111.88	2691 323.85
136 42 30	2630 827.93	2646 039.16	2661 250.49	2676 461.93	2691 673.46
136 45 00	2631 184.15	2646 394.95	2661 605.85	2676 816.84	2692 027.94
136 47 30	2631 545.26	2646 755.63	2661 966.08	2677 176.64	2692 387.31
136 50 00	2631 911.26	2647 121.19	2662 331.21	2677 541.33	2692 751.54
136 52 30	2632 282.15	2647 491.64	2662 701.21	2677 910.89	2693 120.65
136 55 00	2632 657.94	2647 866.99	2663 076.11	2678 285.33	2693 494.64
136 57 30	2633 038.63	2648 247.22	2663 455.90	2678 664.66	2693 873.51
137 00 00	2633 424.21	2648 632.34	2663 840.56	2679 048.86	2694 257.25
137 02 30	2633 814.69	2649 022.37	2664 230.12	2679 437.95	2694 645.88
137 05 00	2634 210.07	2649 417.28	2664 624.56	2679 831.92	2695 039.37
137 07 30	2634 610.34	2649 817.08	2665 023.89	2680 230.78	2695 437.76
137 10 00	2635 015.51	2650 221.78	2665 428.11	2680 634.52	2695 841.01
137 12 30	2635 425.59	2650 631.37	2665 837.22	2681 043.14	2696 249.15
137 15 00	2635 840.55	2651 045.85	2666 251.21	2681 456.65	2696 662.17
137 17 30	2636 260.42	2651 465.23	2666 670.10	2681 875.05	2697 080.06
137 20 00	2636 685.19	2651 889.50	2667 093.88	2682 298.32	2697 502.84
137 22 30	2637 114.86	2652 318.67	2667 522.55	2682 726.48	2697 930.50
137 25 00	2637 549.43	2652 752.74	2667 956.10	2683 159.54	2698 363.04
137 27 30	2637 988.89	2653 191.69	2668 394.55	2683 597.47	2698 800.46
137 30 00	2638 433.27	2653 635.56	2668 837.89	2684 040.29	2699 242.76
137 32 30	2638 882.54	2654 084.31	2669 286.13	2684 488.01	2699 689.95
137 35 00	2639 336.71	2654 537.96	2669 739.26	2684 940.61	2700 142.02
137 37 30	2639 795.79	2654 996.51	2670 197.28	2685 398.09	2700 598.97
137 40 00	2640 259.77	2655 459.96	2670 660.19	2685 860.47	2701 060.81
137 42 30	2640 728.66	2655 928.30	2671 128.00	2686 327.74	2701 527.53
137 45 00	2641 202.44	2656 401.55	2671 600.70	2686 799.90	2701 999.14
137 47 30	2641 681.14	2656 879.70	2672 078.29	2687 276.94	2702 475.63
137 50 00	2642 164.73	2657 362.74	2672 560.79	2687 758.88	2702 957.01
137 52 30	2642 653.23	2657 850.68	2673 048.17	2688 245.70	2703 443.27
137 55 00	2643 146.64	2658 343.54	2673 540.46	2688 737.42	2703 934.42
137 57 30	2643 644.96	2658 841.28	2674 037.64	2689 234.03	2704 430.45
138 00 00	2644 148.18	2659 343.94	2674 539.72	2689 735.53	2704 931.38
138 02 30	2644 656.31	2659 851.48	2675 046.69	2690 241.93	2705 437.19
138 05 00	2645 169.34	2660 363.94	2675 558.56	2690 753.21	2705 947.89
138 07 30	2645 687.28	2660 881.30	2676 075.33	2691 269.39	2706 463.48
138 10 00	2646 210.14	2661 403.56	2676 597.00	2691 790.47	2706 983.96
138 12 30	2646 737.90	2661 930.73	2677 123.57	2692 316.43	2707 509.32
138 15 00	2647 270.57	2662 462.79	2677 655.04	2692 847.29	2708 039.58
138 17 30	2647 808.14	2662 999.77	2678 191.40	2693 383.05	2708 574.72
138 20 00	2648 350.63	2663 541.64	2678 732.67	2693 923.71	2709 114.76
138 22 30	2648 898.03	2664 088.43	2679 278.84	2694 469.25	2709 659.69
138 25 00	2649 450.34	2664 640.12	2679 829.90	2695 019.70	2710 209.51
138 27 30	2650 007.56	2665 196.71	2680 385.87	2695 575.04	2710 764.22
138 30 00	2650 569.69	2665 758.22	2680 946.75	2696 135.28	2711 323.82
138 32 30	2651 136.74	2666 324.63	2681 512.52	2696 700.42	2711 888.32
138 35 00	2651 708.69	2666 895.95	2682 083.20	2697 270.45	2712 457.71
138 37 30	2652 285.56	2667 472.17	2682 658.78	2697 845.38	2713 031.99
138 40 00	2652 867.35	2668 053.31	2683 239.26	2698 425.22	2713 611.16
138 42 30	2653 454.04	2668 639.35	2683 824.65	2699 009.95	2714 195.23
138 45 00	2654 045.65	2669 230.30	2684 414.94	2699 599.58	2714 784.20
138 47 30	2654 642.18	2669 826.17	2685 010.15	2700 194.11	2715 378.06
138 50 00	2655 243.62	2670 426.95	2685 610.24	2700 793.54	2715 976.81
136 52 30	2655 849.97	2671 032.63	2686 215.25	2701 397.86	2716 580.47
138 55 00	2656 461.24	2671 643.22	2686 825.17	2702 007.10	2717 189.01
138 57 30	2657 077.44	2672 258.73	2687 439.99	2702 621.23	2717 802.45
139 00 00	2657 698.54	2672 879.14	2688 059.71	2703 240.26	2718 420.80

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.34	-.39	-.44	-.48	-.51	-.54	-.57	-.59	-.60	-.61	-.61

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 10 00	59 12 30	59 15 00	59 17 30	59 20 00
134 30 00	2529 156.15	2529 339.70	2529 523.09	2529 706.34	2529 889.43
134 32 30	2521 337.20	2521 530.21	2521 723.05	2521 915.76	2522 108.31
134 35 00	2513 518.37	2513 720.82	2513 923.13	2514 125.29	2514 327.30
134 37 30	2505 699.62	2505 911.52	2506 123.28	2506 334.91	2506 546.38
134 40 00	2497 880.98	2498 102.34	2498 323.56	2498 544.64	2498 765.57
134 42 30	2490 062.45	2490 293.26	2490 523.94	2490 754.48	2490 984.88
134 45 00	2482 244.03	2482 484.29	2482 724.43	2482 964.43	2483 204.30
134 47 30	2474 425.71	2474 675.44	2474 925.04	2475 174.50	2475 423.83
134 50 00	2466 607.51	2466 866.70	2467 125.76	2467 384.69	2467 643.48
134 52 30	2458 789.43	2459 058.07	2459 326.59	2459 594.99	2459 863.25
134 55 00	2450 971.47	2451 249.57	2451 527.55	2451 805.41	2452 083.14
134 57 30	2443 153.62	2443 441.19	2443 728.63	2444 015.96	2444 303.15
135 00 00	2435 335.90	2435 632.92	2435 929.83	2436 226.62	2436 523.29
135 02 30	2427 518.31	2427 824.79	2428 131.16	2428 437.43	2428 743.56
135 05 00	2419 700.84	2420 016.78	2420 332.62	2420 648.35	2420 963.96
135 07 30	2411 883.50	2412 208.91	2412 534.21	2412 859.41	2413 184.48
135 10 00	2404 066.29	2404 401.17	2404 735.94	2405 070.60	2405 405.15
135 12 30	2396 249.22	2396 593.56	2396 937.80	2397 281.93	2397 625.96
135 15 00	2388 432.28	2388 786.09	2389 139.80	2389 493.40	2389 846.90
135 17 30	2380 615.48	2380 978.76	2381 341.94	2381 705.02	2382 067.99
135 20 00	2372 798.83	2373 171.57	2373 544.22	2373 916.77	2374 289.22
135 22 30	2364 982.32	2365 364.53	2365 746.65	2366 128.67	2366 510.60
135 25 00	2357 165.95	2357 557.63	2357 949.22	2358 340.72	2358 732.13
135 27 30	2349 349.74	2349 750.88	2350 151.95	2350 552.92	2350 953.80
135 30 00	2341 533.67	2341 944.29	2342 354.83	2342 765.28	2343 175.64
135 32 30	2333 717.76	2334 137.85	2334 557.87	2334 977.79	2335 397.63
135 35 00	2325 902.00	2326 331.56	2326 761.05	2327 190.46	2327 619.78
135 37 30	2318 086.40	2318 525.44	2318 964.40	2319 403.28	2319 842.09
135 40 00	2310 270.97	2310 719.48	2311 167.92	2311 616.28	2312 064.57
135 42 30	2302 455.69	2302 913.68	2303 371.59	2303 829.44	2304 287.21
135 45 00	2294 640.58	2295 108.04	2295 575.44	2296 042.76	2296 510.01
135 47 30	2286 825.64	2287 302.58	2287 779.45	2288 256.26	2288 732.99
135 50 00	2279 010.86	2279 497.28	2279 983.64	2280 469.92	2280 956.15
135 52 30	2271 196.26	2271 692.15	2272 187.99	2272 683.77	2273 179.47
135 55 00	2263 381.83	2263 887.21	2264 392.53	2264 897.79	2265 402.98
135 57 30	2255 567.59	2256 082.44	2256 597.24	2257 111.99	2257 626.66
136 00 00	2247 753.52	2248 277.85	2248 802.14	2249 326.36	2249 850.53
136 02 30	2239 939.63	2240 473.45	2241 007.22	2241 540.93	2242 074.59
136 05 00	2232 125.92	2232 669.22	2233 212.48	2233 755.68	2234 298.83
136 07 30	2224 312.40	2224 865.19	2225 417.92	2225 970.62	2226 523.26
136 10 00	2216 499.08	2217 061.34	2217 623.57	2218 185.75	2218 747.89
136 12 30	2208 685.94	2209 257.69	2209 829.41	2210 401.07	2210 972.70
136 15 00	2200 872.99	2201 454.23	2202 036.44	2202 616.60	2203 197.71
136 17 30	2193 060.25	2193 650.97	2194 241.67	2194 832.32	2195 422.93
136 20 00	2185 247.70	2185 847.92	2186 448.09	2187 048.23	2187 648.34
136 22 30	2177 435.35	2178 045.05	2178 654.72	2179 264.36	2179 873.96
136 25 00	2169 623.21	2170 242.40	2170 861.56	2171 480.69	2172 099.79
136 27 30	2161 811.27	2162 439.94	2163 068.60	2163 697.23	2164 325.83
136 30 00	2153 999.53	2154 637.70	2155 275.85	2155 913.98	2156 552.07
136 32 30	2146 188.01	2146 835.68	2147 483.32	2148 130.94	2148 778.53
136 35 00	2138 376.70	2139 033.86	2139 691.00	2140 348.11	2141 005.21
136 37 30	2130 565.61	2131 232.26	2131 898.89	2132 565.51	2133 232.10
136 40 00	2122 754.74	2123 430.88	2124 107.01	2124 783.13	2125 459.22
136 42 30	2114 944.08	2115 629.72	2116 315.35	2117 000.96	2117 686.56
136 45 00	2107 133.65	2107 828.78	2108 523.90	2109 219.02	2109 914.12
136 47 30	2099 323.45	2100 028.07	2100 732.70	2101 437.31	2102 141.91
136 50 00	2091 513.46	2092 227.59	2092 941.71	2093 655.83	2094 369.94
136 52 30	2083 703.71	2084 427.34	2085 150.97	2085 874.59	2086 598.20
136 55 00	2075 894.20	2076 627.32	2077 360.45	2078 093.57	2078 826.69
136 57 30	2068 084.91	2068 827.54	2069 570.16	2070 312.79	2071 055.41
137 00 00	2060 275.86	2061 027.99	2061 780.12	2062 532.26	2063 284.39

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	+.01	+.01	+.01	+.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 10 00	59 12 30	59 15 00	59 17 30	59 20 00
134 30 00	2679 851.00	2695 079.17	2710 307.53	2725 536.12	2740 764.93
134 32 30	2679 947.71	2695 175.68	2710 403.85	2725 632.24	2740 860.85
134 35 00	2680 049.27	2695 277.04	2710 505.01	2725 733.20	2740 961.61
134 37 30	2680 155.68	2695 383.25	2710 611.02	2725 839.00	2741 067.21
134 40 00	2680 266.95	2695 494.32	2710 721.87	2725 949.65	2741 177.64
134 42 30	2680 383.06	2695 610.23	2710 837.57	2726 065.13	2741 292.91
134 45 00	2680 504.04	2695 730.99	2710 958.11	2726 185.45	2741 413.01
134 47 30	2680 629.87	2695 856.59	2711 083.50	2726 310.62	2741 537.95
134 50 00	2680 760.55	2695 987.05	2711 213.73	2726 440.62	2741 667.73
134 52 30	2680 896.09	2696 122.36	2711 348.81	2726 575.47	2741 802.34
134 55 00	2681 036.49	2696 262.53	2711 488.74	2726 715.16	2741 941.80
134 57 30	2681 181.75	2696 407.54	2711 633.52	2726 859.70	2742 086.08
135 00 00	2681 331.85	2696 557.41	2711 783.14	2727 009.07	2742 235.21
135 02 30	2681 486.82	2696 712.13	2711 937.61	2727 163.30	2742 389.18
135 05 00	2681 646.64	2696 871.71	2712 096.93	2727 322.36	2742 547.98
135 07 30	2681 811.33	2697 036.13	2712 261.10	2727 486.27	2742 711.64
135 10 00	2681 980.87	2697 205.41	2712 430.12	2727 655.02	2742 880.12
135 12 30	2682 155.27	2697 379.55	2712 603.99	2727 828.62	2743 053.45
135 15 00	2682 334.53	2697 558.54	2712 782.71	2728 007.07	2743 231.62
135 17 30	2682 518.65	2697 742.39	2712 966.28	2728 190.36	2743 414.64
135 20 00	2682 707.63	2697 931.09	2713 154.70	2728 378.50	2743 602.49
135 22 30	2682 901.47	2698 124.65	2713 347.98	2728 571.49	2743 795.18
135 25 00	2683 100.18	2698 323.06	2713 546.10	2728 769.32	2743 992.73
135 27 30	2683 303.74	2698 526.34	2713 749.08	2728 972.00	2744 195.11
135 30 00	2683 512.17	2698 734.46	2713 956.90	2729 179.53	2744 402.33
135 32 30	2683 725.46	2698 947.45	2714 169.59	2729 391.90	2744 614.40
135 35 00	2683 943.61	2699 165.30	2714 387.12	2729 609.13	2744 831.32
135 37 30	2684 166.62	2699 388.00	2714 609.52	2729 831.21	2745 053.07
135 40 00	2684 394.51	2699 615.57	2714 836.77	2730 058.14	2745 279.68
135 42 30	2684 627.25	2699 847.99	2715 068.87	2730 289.91	2745 511.13
135 45 00	2684 864.86	2700 085.27	2715 305.82	2730 526.54	2745 747.43
135 47 30	2685 107.33	2700 327.41	2715 547.63	2730 768.02	2745 988.57
135 50 00	2685 354.67	2700 574.42	2715 794.30	2731 014.35	2746 234.56
135 52 30	2685 606.87	2700 826.29	2716 045.83	2731 265.53	2746 485.40
135 55 00	2685 863.94	2701 083.01	2716 302.21	2731 521.56	2746 741.08
135 57 30	2686 125.88	2701 344.60	2716 563.45	2731 782.46	2747 001.62
136 00 00	2686 392.69	2701 611.06	2716 829.55	2732 048.20	2747 267.00
136 02 30	2686 664.36	2701 882.37	2717 100.50	2732 318.79	2747 537.23
136 05 00	2686 940.90	2702 158.55	2717 376.31	2732 594.24	2747 813.31
136 07 30	2687 222.31	2702 439.59	2717 656.99	2732 874.54	2748 092.24
136 10 00	2687 508.58	2702 725.50	2717 942.52	2733 159.70	2748 377.02
136 12 30	2687 799.73	2703 016.27	2718 232.92	2733 449.71	2748 666.66
136 15 00	2688 095.75	2703 311.91	2718 528.18	2733 744.58	2748 961.14
136 17 30	2688 396.64	2703 612.40	2718 828.28	2734 044.31	2749 260.47
136 20 00	2688 702.39	2703 917.77	2719 133.26	2734 348.89	2749 564.66
136 22 30	2689 013.02	2704 228.00	2719 443.10	2734 658.32	2749 873.69
136 25 00	2689 328.52	2704 543.11	2719 757.80	2734 972.62	2750 187.58
136 27 30	2689 648.90	2704 863.08	2720 077.36	2735 291.78	2750 506.33
136 30 00	2689 974.14	2705 187.91	2720 401.78	2735 615.79	2750 829.93
136 32 30	2690 304.25	2705 517.61	2720 731.07	2735 944.66	2751 158.37
136 35 00	2690 639.24	2705 852.19	2721 065.22	2736 278.39	2751 491.68
136 37 30	2690 979.10	2706 191.63	2721 404.24	2736 616.98	2751 829.84
136 40 00	2691 323.85	2706 535.94	2721 748.12	2736 960.43	2752 172.85
136 42 30	2691 673.46	2706 885.11	2722 096.86	2737 308.73	2752 520.73
136 45 00	2692 027.94	2707 239.17	2722 450.47	2737 661.90	2752 873.45
136 47 30	2692 387.31	2707 598.09	2722 808.95	2738 019.93	2753 231.04
136 50 00	2692 751.54	2707 961.87	2723 172.29	2738 382.83	2753 593.47
136 52 30	2693 120.65	2708 330.54	2723 540.50	2738 750.58	2753 960.77
136 55 00	2693 494.64	2708 704.07	2723 913.58	2739 123.20	2754 332.92
136 57 30	2693 873.51	2709 082.48	2724 291.52	2739 500.68	2754 709.93
137 00 00	2694 257.25	2709 465.76	2724 674.33	2739 883.01	2755 091.81

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.34	-.39	-.44	-.48	-.51	-.54	-.57	-.59	-.60	-.61	-.61

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 10 00	59 12 30	59 15 00	59 17 30	59 20 00
137 00 00	2060 275.86	2061 027.99	2061 780.12	2062 532.26	2063 284.39
137 02 30	2052 467.06	2053 228.68	2053 990.32	2054 751.96	2055 513.60
137 05 00	2044 658.50	2045 429.62	2046 200.76	2046 971.91	2047 743.05
137 07 30	2036 850.18	2037 630.81	2038 411.45	2039 192.10	2039 972.77
137 10 00	2029 042.10	2029 832.24	2030 622.38	2031 412.55	2032 202.72
137 12 30	2021 234.27	2022 033.92	2022 833.57	2023 633.24	2024 432.92
137 15 00	2013 426.70	2014 235.85	2015 045.01	2015 854.19	2016 663.39
137 17 30	2005 619.38	2006 438.03	2007 256.70	2008 075.40	2008 894.11
137 20 00	1997 812.32	1998 640.48	1999 468.66	2000 296.87	2001 125.09
137 22 30	1990 005.52	1990 843.18	1991 680.88	1992 518.60	1993 356.33
137 25 00	1982 198.98	1983 046.15	1983 893.35	1984 740.58	1985 587.84
137 27 30	1974 392.70	1975 249.38	1976 106.09	1976 962.84	1977 819.61
137 30 00	1966 586.69	1967 452.89	1968 319.11	1969 185.37	1970 051.66
137 32 30	1958 780.94	1959 656.65	1960 532.39	1961 408.16	1962 283.97
137 35 00	1950 975.47	1951 860.69	1952 745.94	1953 631.24	1954 516.56
137 37 30	1943 170.28	1944 065.01	1944 959.77	1945 854.59	1946 749.43
137 40 00	1935 365.35	1936 269.60	1937 173.88	1938 078.21	1938 982.58
137 42 30	1927 560.71	1928 474.47	1929 388.27	1930 302.11	1931 216.00
137 45 00	1919 756.35	1920 679.63	1921 602.94	1922 526.31	1923 449.71
137 47 30	1911 952.28	1912 885.06	1913 817.90	1914 750.78	1915 683.71
137 50 00	1904 148.48	1905 090.78	1906 033.14	1906 975.55	1907 918.00
137 52 30	1896 344.98	1897 296.80	1898 248.67	1899 200.60	1900 152.58
137 55 00	1888 541.76	1889 503.10	1890 464.50	1891 425.95	1892 387.45
137 57 30	1880 738.84	1881 709.70	1882 680.62	1883 651.60	1884 622.62
138 00 00	1872 936.22	1873 916.60	1874 897.04	1875 877.54	1876 858.09
138 02 30	1865 133.90	1866 123.80	1867 113.76	1868 103.78	1869 093.86
138 05 00	1857 331.87	1858 331.29	1859 330.78	1860 330.32	1861 329.94
138 07 30	1849 530.15	1850 539.10	1851 548.10	1852 557.18	1853 566.32
138 10 00	1841 728.74	1842 747.20	1843 765.74	1844 784.34	1845 803.01
138 12 30	1833 927.62	1834 955.62	1835 983.68	1837 011.81	1838 040.01
138 15 00	1826 126.84	1827 164.35	1828 201.94	1829 239.60	1830 277.33
138 17 30	1818 326.35	1819 373.39	1820 420.51	1821 467.70	1822 514.96
138 20 00	1810 526.19	1811 582.75	1812 639.40	1813 696.12	1814 752.91
138 22 30	1802 726.35	1803 792.43	1804 858.61	1805 924.86	1806 991.19
138 25 00	1794 926.81	1796 002.43	1797 078.14	1798 153.92	1799 229.78
138 27 30	1787 127.61	1788 212.75	1789 297.99	1790 383.31	1791 468.71
138 30 00	1779 328.73	1780 423.41	1781 518.18	1782 613.03	1783 707.96
138 32 30	1771 530.18	1772 634.39	1773 738.69	1774 843.07	1775 947.54
138 35 00	1763 731.96	1764 845.70	1765 959.53	1767 073.45	1768 187.45
138 37 30	1755 934.08	1757 057.35	1758 180.71	1759 304.17	1760 427.72
138 40 00	1748 136.52	1749 269.33	1750 402.23	1751 535.22	1752 668.31
138 42 30	1740 339.31	1741 481.65	1742 624.08	1743 766.62	1744 909.24
138 45 00	1732 542.44	1733 694.31	1734 846.29	1735 998.36	1737 150.53
138 47 30	1724 745.91	1725 907.32	1727 068.83	1728 230.44	1729 392.14
138 50 00	1716 949.74	1718 120.68	1719 291.73	1720 462.88	1721 634.13
138 52 30	1709 153.90	1710 334.38	1711 514.97	1712 695.66	1713 876.45
138 55 00	1701 358.42	1702 548.44	1703 738.56	1704 928.79	1706 119.12
138 57 30	1693 563.30	1694 762.85	1695 962.51	1697 162.28	1698 362.16
139 00 00	1685 768.52	1686 977.61	1688 186.82	1689 396.13	1690 605.55
139 02 30	1677 974.10	1679 192.74	1680 411.48	1681 630.34	1682 849.31
139 05 00	1670 180.06	1671 408.23	1672 636.51	1673 864.92	1675 093.43
139 07 30	1662 386.36	1663 624.08	1664 861.91	1666 099.86	1667 337.92
139 10 00	1654 593.04	1655 840.29	1657 087.67	1658 335.16	1659 582.77
139 12 30	1646 800.09	1648 056.88	1649 313.81	1650 570.85	1651 828.01
139 15 00	1639 007.51	1640 273.84	1641 540.31	1642 806.90	1644 073.61
139 17 30	1631 215.29	1632 491.17	1633 767.19	1635 043.32	1636 319.58
139 20 00	1623 423.46	1624 708.89	1625 994.45	1627 280.13	1628 565.95
139 22 30	1615 632.00	1616 926.98	1618 222.09	1619 517.32	1620 812.68
139 25 00	1607 840.93	1609 145.45	1610 450.10	1611 754.89	1613 059.80
139 27 30	1600 050.24	1601 364.31	1602 678.52	1603 992.85	1605 307.32
139 30 00	1592 259.94	1593 583.55	1594 907.31	1596 231.20	1597 555.22

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.04	-.04

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 10 00	59 12 30	59 15 00	59 17 30	59 20 00
137 00 00	2694 257.25	2709 465.76	2724 674.33	2739 883.01	2755 091.81
137 02 30	2694 645.88	2709 853.91	2725 062.01	2740 270.22	2755 478.53
137 05 00	2695 039.37	2710 246.93	2725 454.56	2740 662.29	2755 870.12
137 07 30	2695 437.76	2710 644.83	2725 851.98	2741 059.22	2756 266.57
137 10 00	2695 841.01	2711 047.61	2726 254.26	2741 461.02	2756 667.88
137 12 30	2696 249.15	2711 455.25	2726 661.42	2741 867.69	2757 074.05
137 15 00	2696 662.17	2711 867.78	2727 073.45	2742 279.21	2757 485.07
137 17 30	2697 080.06	2712 285.17	2727 490.35	2742 695.61	2757 900.97
137 20 00	2697 502.84	2712 707.45	2727 912.12	2743 116.87	2758 321.72
137 22 30	2697 930.50	2713 134.60	2728 338.76	2743 543.00	2758 747.33
137 25 00	2698 363.04	2713 566.62	2728 770.27	2743 973.99	2759 177.81
137 27 30	2698 800.46	2714 003.53	2729 206.65	2744 409.86	2759 613.15
137 30 00	2699 242.76	2714 445.31	2729 647.91	2744 850.59	2760 053.35
137 32 30	2699 689.95	2714 891.97	2730 094.04	2745 296.19	2760 498.41
137 35 00	2700 142.02	2715 343.51	2730 545.04	2745 746.65	2760 948.34
137 37 30	2700 598.97	2715 799.92	2731 000.92	2746 201.99	2761 403.14
137 40 00	2701 060.81	2716 261.22	2731 461.68	2746 662.19	2761 862.80
137 42 30	2701 527.53	2716 727.40	2731 927.31	2747 127.27	2762 327.32
137 45 00	2701 999.14	2717 198.45	2732 397.80	2747 597.22	2762 796.71
137 47 30	2702 475.63	2717 674.39	2732 873.18	2748 072.04	2763 270.96
137 50 00	2702 957.01	2718 155.20	2733 353.43	2748 551.73	2763 750.08
137 52 30	2703 443.27	2718 640.90	2733 838.57	2749 036.28	2764 234.07
137 55 00	2703 934.42	2719 131.48	2734 328.57	2749 525.72	2764 722.93
137 57 30	2704 430.45	2719 626.95	2734 823.45	2750 020.02	2765 216.65
138 00 00	2704 931.38	2720 127.29	2735 323.22	2750 519.20	2765 715.24
138 02 30	2705 437.19	2720 632.51	2735 827.86	2751 023.25	2766 218.70
138 05 00	2705 947.89	2721 142.63	2736 337.38	2751 532.18	2766 727.03
138 07 30	2706 463.48	2721 657.62	2736 851.78	2752 045.98	2767 240.22
138 10 00	2706 983.96	2722 177.50	2737 371.05	2752 564.65	2767 758.29
138 12 30	2707 509.32	2722 702.26	2737 895.21	2753 088.20	2768 281.23
138 15 00	2708 039.58	2723 231.91	2738 424.24	2753 616.62	2768 809.04
138 17 30	2708 574.72	2723 766.44	2738 958.16	2754 149.92	2769 341.72
138 20 00	2709 114.76	2724 305.86	2739 496.96	2754 688.09	2769 879.26
138 22 30	2709 659.69	2724 850.16	2740 040.63	2755 231.14	2770 421.68
138 25 00	2710 209.51	2725 399.36	2740 589.19	2755 779.07	2770 968.97
138 27 30	2710 764.22	2725 953.43	2741 142.64	2756 331.87	2771 521.14
138 30 00	2711 323.82	2726 512.39	2741 700.96	2756 889.56	2772 078.17
138 32 30	2711 888.32	2727 076.25	2742 264.17	2757 452.12	2772 640.08
138 35 00	2712 457.71	2727 644.99	2742 832.26	2758 019.55	2773 206.87
138 37 30	2713 031.99	2728 218.62	2743 405.23	2758 591.87	2773 778.52
138 40 00	2713 611.16	2728 797.14	2743 983.09	2759 169.06	2774 355.05
138 42 30	2714 195.23	2729 380.55	2744 565.83	2759 751.14	2774 936.46
138 45 00	2714 784.20	2729 968.84	2745 153.46	2760 338.09	2775 522.74
138 47 30	2715 378.06	2730 562.03	2745 745.97	2760 929.93	2776 113.90
138 50 00	2715 976.81	2731 160.11	2746 343.37	2761 526.65	2776 709.93
138 52 30	2716 580.47	2731 763.07	2746 945.65	2762 128.24	2777 310.83
138 55 00	2717 189.01	2732 370.94	2747 552.83	2762 734.72	2777 916.62
138 57 30	2717 802.45	2732 983.68	2748 164.88	2763 346.08	2778 527.28
139 00 00	2718 420.80	2733 601.33	2748 781.83	2763 962.32	2779 142.82
139 02 30	2719 044.03	2734 223.86	2749 403.66	2764 583.45	2779 763.24
139 05 00	2719 672.17	2734 851.30	2750 030.38	2765 209.46	2780 388.53
139 07 30	2720 305.20	2735 483.62	2750 661.99	2765 840.35	2781 018.71
139 10 00	2720 943.13	2736 120.83	2751 298.49	2766 476.12	2781 653.76
139 12 30	2721 585.97	2736 762.94	2751 939.87	2767 116.79	2782 293.69
139 15 00	2722 233.70	2737 409.95	2752 586.15	2767 762.33	2782 938.50
139 17 30	2722 886.33	2738 061.85	2753 237.31	2768 412.76	2783 588.19
139 20 00	2723 543.86	2738 718.64	2753 893.37	2769 068.07	2784 242.76
139 22 30	2724 206.29	2739 380.33	2754 554.32	2769 728.27	2784 902.21
139 25 00	2724 873.63	2740 046.92	2755 220.16	2770 393.36	2785 566.54
139 27 30	2725 545.86	2740 718.40	2755 890.88	2771 063.34	2786 235.76
139 30 00	2726 223.00	2741 394.78	2756 566.50	2771 738.19	2786 909.86

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.34	-.39	-.44	-.48	-.51	-.54	-.57	-.59	-.60	-.61	-.61

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 20 00	59 22 30	59 25 00	59 27 30	59 30 00
134 00 00	2623 270.04	2623 339.47	2623 408.71	2623 477.75	2623 546.58
134 02 30	2615 487.86	2615 566.75	2615 645.45	2615 723.94	2615 802.24
134 05 00	2607 705.77	2607 794.11	2607 882.27	2607 970.22	2608 057.98
134 07 30	2599 923.75	2600 021.55	2600 119.15	2600 216.57	2600 313.80
134 10 00	2592 141.81	2592 249.06	2592 356.12	2592 463.01	2592 569.69
134 12 30	2584 359.95	2584 476.66	2584 593.19	2584 709.53	2584 825.68
134 15 00	2576 578.17	2576 704.34	2576 830.33	2576 956.13	2577 081.75
134 17 30	2568 796.48	2568 932.11	2569 067.56	2569 202.83	2569 337.91
134 20 00	2561 014.89	2561 159.98	2561 304.89	2561 449.62	2561 594.17
134 22 30	2553 233.38	2553 387.93	2553 542.30	2553 696.49	2553 850.52
134 25 00	2545 451.96	2545 615.97	2545 779.81	2545 943.47	2546 106.96
134 27 30	2537 670.65	2537 844.12	2538 017.42	2538 190.55	2538 363.51
134 30 00	2529 889.43	2530 072.36	2530 255.12	2530 437.72	2530 620.15
134 32 30	2522 108.31	2522 300.70	2522 492.93	2522 685.00	2522 876.90
134 35 00	2514 327.30	2514 529.15	2514 730.85	2514 932.38	2515 133.76
134 37 30	2506 546.38	2506 757.70	2506 968.87	2507 179.88	2507 390.72
134 40 00	2498 765.57	2498 986.36	2499 207.00	2499 427.47	2499 647.79
134 42 30	2490 984.88	2491 215.14	2491 445.24	2491 675.19	2491 904.98
134 45 00	2483 204.30	2483 444.02	2483 683.59	2483 923.02	2484 162.29
134 47 30	2475 423.83	2475 673.02	2475 922.06	2476 170.96	2476 419.70
134 50 00	2467 643.48	2467 902.14	2468 160.65	2468 419.02	2468 677.24
134 52 30	2459 863.25	2460 131.37	2460 399.36	2460 667.21	2460 934.90
134 55 00	2452 083.14	2452 360.74	2452 638.20	2452 915.52	2453 192.70
134 57 30	2444 303.15	2444 590.22	2444 877.15	2445 163.95	2445 450.61
135 00 00	2436 523.29	2436 819.83	2437 116.23	2437 412.51	2437 708.65
135 02 30	2428 743.56	2429 049.57	2429 355.46	2429 661.21	2429 966.83
135 05 00	2420 963.96	2421 279.44	2421 594.81	2421 910.03	2422 225.13
135 07 30	2413 184.48	2413 509.44	2413 834.28	2414 159.00	2414 483.57
135 10 00	2405 405.15	2405 739.59	2406 073.91	2406 408.10	2406 742.16
135 12 30	2397 625.96	2397 969.87	2398 313.66	2398 657.33	2399 000.88
135 15 00	2389 846.90	2390 200.29	2390 553.56	2390 906.71	2391 259.75
135 17 30	2382 067.99	2382 430.86	2382 793.61	2383 156.25	2383 518.77
135 20 00	2374 289.22	2374 661.56	2375 033.79	2375 405.92	2375 777.92
135 22 30	2366 510.60	2366 892.42	2367 274.14	2367 655.74	2368 037.23
135 25 00	2358 732.13	2359 123.43	2359 514.63	2359 905.72	2360 296.70
135 27 30	2350 953.80	2351 354.59	2351 755.27	2352 155.85	2352 556.32
135 30 00	2343 175.64	2343 585.90	2343 996.07	2344 406.13	2344 816.09
135 32 30	2335 397.63	2335 817.38	2336 237.03	2336 656.58	2337 076.03
135 35 00	2327 619.78	2328 049.01	2328 478.14	2328 907.18	2329 336.13
135 37 30	2319 842.09	2320 280.80	2320 719.42	2321 157.96	2321 596.39
135 40 00	2312 064.57	2312 512.77	2312 960.88	2313 408.90	2313 856.82
135 42 30	2304 287.21	2304 744.89	2305 202.49	2305 660.00	2306 117.42
135 45 00	2296 510.01	2296 977.19	2297 444.27	2297 911.27	2298 378.18
135 47 30	2288 732.99	2289 209.65	2289 686.23	2290 162.73	2290 639.13
135 50 00	2280 956.15	2281 442.29	2281 928.36	2282 414.35	2282 900.25
135 52 30	2273 179.47	2273 675.10	2274 170.66	2274 666.15	2275 161.54
135 55 00	2265 402.98	2265 908.10	2266 413.16	2266 918.13	2267 423.02
135 57 30	2257 626.66	2258 141.28	2258 655.82	2259 170.29	2259 684.68
136 00 00	2249 850.53	2250 374.64	2250 898.67	2251 422.64	2251 946.53
136 02 30	2242 074.59	2242 608.19	2243 141.72	2243 675.18	2244 208.58
136 05 00	2234 298.83	2234 841.92	2235 384.95	2235 927.91	2236 470.80
136 07 30	2226 523.26	2227 075.84	2227 628.37	2228 180.83	2228 733.22
136 10 00	2218 747.89	2219 309.96	2219 871.98	2220 433.94	2220 995.83
136 12 30	2210 972.70	2211 544.27	2212 115.79	2212 687.25	2213 258.65
136 15 00	2203 197.71	2203 778.78	2204 359.80	2204 940.76	2205 521.66
136 17 30	2195 422.93	2196 013.50	2196 604.01	2197 194.47	2197 784.88
136 20 00	2187 648.34	2188 248.41	2188 848.42	2189 448.39	2190 048.30
136 22 30	2179 873.96	2180 483.52	2181 093.04	2181 702.50	2182 311.92
136 25 00	2172 099.79	2172 718.85	2173 337.87	2173 956.84	2174 575.76
136 27 30	2164 325.83	2164 954.38	2165 582.90	2166 211.38	2166 839.81
136 30 00	2156 552.07	2157 190.13	2157 828.15	2158 466.14	2159 104.07

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.01	+.02	+.02	+.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 20 00	59 22 30	59 25 00	59 27 30	59 30 00
134 00 00	2739 990.77	2755 221.85	2770 453.17	2785 684.77	2800 916.61
134 02 30	2740 028.71	2755 259.65	2770 490.82	2785 722.27	2800 953.96
134 05 00	2740 071.49	2755 302.27	2770 533.29	2785 764.59	2800 996.12
134 07 30	2740 119.08	2755 349.72	2770 580.58	2785 811.72	2801 043.09
134 10 00	2740 171.51	2755 401.99	2770 632.70	2785 863.66	2801 094.87
134 12 30	2740 228.78	2755 459.09	2770 689.63	2785 920.43	2801 151.47
134 15 00	2740 290.88	2755 521.02	2770 751.39	2785 982.02	2801 212.89
134 17 30	2740 357.80	2755 587.77	2770 817.97	2786 048.42	2801 279.11
134 20 00	2740 429.57	2755 659.35	2770 889.37	2786 119.64	2801 350.16
134 22 30	2740 506.15	2755 735.76	2770 965.59	2786 195.69	2801 426.00
134 25 00	2740 587.58	2755 817.00	2771 046.65	2786 276.55	2801 506.67
134 27 30	2740 673.84	2755 903.06	2771 132.52	2786 362.23	2801 592.16
134 30 00	2740 764.93	2755 993.97	2771 223.22	2786 452.73	2801 682.45
134 32 30	2740 860.85	2756 089.69	2771 318.74	2786 548.05	2801 777.57
134 35 00	2740 961.61	2756 190.24	2771 419.09	2786 648.19	2801 877.50
134 37 30	2741 067.21	2756 295.63	2771 524.27	2786 753.15	2801 982.25
134 40 00	2741 177.64	2756 405.85	2771 634.27	2786 862.94	2802 091.81
134 42 30	2741 292.91	2756 520.90	2771 749.10	2786 977.55	2802 206.20
134 45 00	2741 413.01	2756 640.78	2771 868.76	2787 096.98	2802 325.41
134 47 30	2741 537.95	2756 765.49	2771 993.24	2787 221.22	2802 449.42
134 50 00	2741 667.73	2756 895.04	2772 122.55	2787 350.30	2802 578.26
134 52 30	2741 802.34	2757 029.41	2772 256.69	2787 484.20	2802 711.92
134 55 00	2741 941.80	2757 168.63	2772 395.66	2787 622.93	2802 850.39
134 57 30	2742 086.08	2757 312.67	2772 539.46	2787 766.48	2802 993.70
135 00 00	2742 235.21	2757 461.55	2772 688.09	2787 914.85	2803 141.81
135 02 30	2742 389.18	2757 615.26	2772 841.54	2788 068.05	2803 294.75
135 05 00	2742 547.98	2757 773.81	2772 999.83	2788 226.07	2803 452.52
135 07 30	2742 711.64	2757 937.20	2773 162.95	2788 388.93	2803 615.10
135 10 00	2742 880.12	2758 105.42	2773 330.90	2788 556.60	2803 782.50
135 12 30	2743 053.45	2758 278.47	2773 503.68	2788 729.11	2803 954.73
135 15 00	2743 231.62	2758 456.36	2773 681.30	2788 906.44	2804 131.78
135 17 30	2743 414.64	2758 639.10	2773 863.74	2789 088.60	2804 313.65
135 20 00	2743 602.49	2758 826.66	2774 051.02	2789 275.59	2804 500.34
135 22 30	2743 795.18	2759 019.07	2774 243.13	2789 467.41	2804 691.86
135 25 00	2743 992.73	2759 216.31	2774 440.08	2789 664.05	2804 888.21
135 27 30	2744 195.11	2759 418.39	2774 641.86	2789 865.53	2805 089.38
135 30 00	2744 402.33	2759 625.31	2774 848.47	2790 071.83	2805 295.37
135 32 30	2744 614.40	2759 837.07	2775 059.92	2790 282.97	2805 506.19
135 35 00	2744 831.32	2760 053.68	2775 276.20	2790 498.93	2805 721.84
135 37 30	2745 053.07	2760 275.11	2775 497.32	2790 719.73	2805 942.31
135 40 00	2745 279.68	2760 501.39	2775 723.28	2790 945.36	2806 167.61
135 42 30	2745 511.13	2760 732.52	2775 954.07	2791 175.82	2806 397.73
135 45 00	2745 747.43	2760 968.48	2776 189.70	2791 411.11	2806 632.69
135 47 30	2745 988.57	2761 209.29	2776 430.17	2791 651.24	2806 872.47
135 50 00	2746 234.56	2761 454.93	2776 675.47	2791 896.19	2807 117.08
135 52 30	2746 485.40	2761 705.43	2776 925.61	2792 145.98	2807 366.52
135 55 00	2746 741.08	2761 960.76	2777 180.59	2792 400.61	2807 620.79
135 57 30	2747 001.62	2762 220.94	2777 440.41	2792 660.07	2807 879.89
136 00 00	2747 267.00	2762 485.96	2777 705.07	2792 924.36	2808 143.81
136 02 30	2747 537.23	2762 755.82	2777 974.57	2793 193.49	2808 412.57
136 05 00	2747 812.31	2763 030.54	2778 248.91	2793 467.46	2808 686.16
136 07 30	2748 092.24	2763 310.09	2778 528.09	2793 746.26	2808 964.58
136 10 00	2748 377.02	2763 594.49	2778 812.11	2794 029.89	2809 247.83
136 12 30	2748 666.66	2763 883.74	2779 100.97	2794 318.36	2809 535.91
136 15 00	2748 961.14	2764 177.83	2779 394.67	2794 611.68	2809 828.83
136 17 30	2749 260.47	2764 476.77	2779 693.22	2794 909.82	2810 126.57
136 20 00	2749 564.66	2764 780.56	2779 996.60	2795 212.81	2810 429.15
136 22 30	2749 873.69	2765 089.19	2780 304.83	2795 520.63	2810 736.57
136 25 00	2750 187.58	2765 402.67	2780 617.91	2795 833.29	2811 048.81
136 27 30	2750 506.33	2765 721.01	2780 935.82	2796 150.79	2811 365.90
136 30 00	2750 829.93	2766 044.19	2781 258.58	2796 473.13	2811 687.81

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.33	-.38	-.43	-.47	-.50	-.53	-.56	-.58	-.59	-.60	-.60

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.03	-.03

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 20 00	59 22 30	59 25 00	59 27 30	59 30 00
136 30 00	2156 552.07	2157 190.13	2157 828.15	2158 466.14	2159 104.07
136 32 30	2148 778.53	2149 426.09	2150 073.62	2150 721.11	2151 368.56
136 35 00	2141 005.21	2141 662.27	2142 319.30	2142 976.30	2143 633.26
136 37 30	2133 232.10	2133 898.67	2134 565.21	2135 231.71	2135 898.17
136 40 00	2125 459.22	2126 135.29	2126 811.33	2127 487.35	2128 163.33
136 42 30	2117 686.56	2118 372.13	2119 057.68	2119 743.21	2120 428.70
136 45 00	2109 914.12	2110 609.20	2111 304.26	2111 999.29	2112 694.29
136 47 30	2102 141.91	2102 846.50	2103 551.07	2104 255.61	2104 960.13
136 50 00	2094 369.94	2095 084.03	2095 798.11	2096 512.17	2097 226.19
136 52 30	2086 598.20	2087 321.80	2088 045.39	2088 768.96	2089 492.50
136 55 00	2078 826.69	2079 559.80	2080 292.89	2081 025.98	2081 759.04
136 57 30	2071 055.41	2071 798.03	2072 540.64	2073 283.24	2074 025.82
137 00 00	2063 284.39	2064 036.51	2064 788.64	2065 540.75	2066 292.85
137 02 30	2055 513.60	2056 275.24	2057 036.87	2057 798.50	2058 560.12
137 05 00	2047 743.05	2048 514.21	2049 285.36	2050 056.50	2050 827.63
137 07 30	2039 972.77	2040 753.43	2041 534.09	2042 314.75	2043 095.41
137 10 00	2032 202.72	2032 992.90	2033 783.08	2034 573.25	2035 363.43
137 12 30	2024 432.92	2025 232.62	2026 032.31	2026 832.01	2027 631.70
137 15 00	2016 663.39	2017 472.60	2018 281.81	2019 091.03	2019 900.24
137 17 30	2008 894.11	2009 712.83	2010 531.56	2011 350.30	2012 169.04
137 20 00	2001 125.09	2001 953.33	2002 781.58	2003 609.83	2004 438.09
137 22 30	1993 356.33	1994 194.09	1995 031.86	1995 869.63	1996 707.42
137 25 00	1985 587.84	1986 435.11	1987 282.40	1988 129.70	1988 977.01
137 27 30	1977 819.61	1978 676.40	1979 533.21	1980 390.04	1981 246.87
137 30 00	1970 051.66	1970 917.97	1971 784.30	1972 650.65	1973 517.01
137 32 30	1962 283.97	1963 159.80	1964 035.66	1964 911.53	1965 787.42
137 35 00	1954 516.56	1955 401.91	1956 287.29	1957 172.69	1958 058.11
137 37 30	1946 749.43	1947 644.30	1948 539.20	1949 434.13	1950 329.08
137 40 00	1938 982.58	1939 886.97	1940 791.40	1941 695.85	1942 600.33
137 42 30	1931 216.00	1932 129.92	1933 043.87	1933 957.85	1934 871.86
137 45 00	1923 449.71	1924 373.16	1925 296.64	1926 220.15	1927 143.69
137 47 30	1915 683.71	1916 616.68	1917 549.69	1918 482.73	1919 415.80
137 50 00	1907 918.00	1908 860.49	1909 803.03	1910 745.60	1911 688.20
137 52 30	1900 152.58	1901 104.60	1902 056.67	1903 008.77	1903 960.90
137 55 00	1892 387.45	1893 349.00	1894 310.59	1895 272.23	1896 233.90
137 57 30	1884 622.62	1885 593.70	1886 564.82	1887 535.99	1888 507.19
138 00 00	1876 858.09	1877 838.70	1878 819.35	1879 800.06	1880 780.79
138 02 30	1869 093.86	1870 084.00	1871 074.19	1872 064.42	1873 054.70
138 05 00	1861 329.94	1862 329.61	1863 329.32	1864 329.09	1865 328.90
138 07 30	1853 566.32	1854 575.52	1855 584.77	1856 594.08	1857 603.43
138 10 00	1845 803.01	1846 821.74	1847 840.53	1848 859.37	1849 878.26
138 12 30	1838 040.01	1839 068.27	1840 096.59	1841 124.97	1842 153.40
138 15 00	1830 277.33	1831 315.13	1832 352.99	1833 390.90	1834 428.87
138 17 30	1822 514.96	1823 562.29	1824 609.68	1825 657.14	1826 704.65
138 20 00	1814 752.91	1815 809.78	1816 866.71	1817 923.70	1818 980.75
138 22 30	1806 991.19	1808 057.59	1809 124.06	1810 190.59	1811 257.18
138 25 00	1799 229.78	1800 305.72	1801 381.73	1802 457.80	1803 533.94
138 27 30	1791 468.71	1792 554.18	1793 639.73	1794 725.34	1795 811.02
138 30 00	1783 707.96	1784 802.97	1785 898.06	1786 993.22	1788 088.44
138 32 30	1775 947.54	1777 052.09	1778 156.72	1779 261.42	1780 366.19
138 35 00	1768 187.45	1769 301.55	1770 415.72	1771 529.96	1772 644.28
138 37 30	1760 427.72	1761 551.35	1762 675.06	1763 798.85	1764 922.71
138 40 00	1752 668.31	1753 801.48	1754 934.73	1756 068.07	1757 201.48
138 42 30	1744 909.24	1746 051.95	1747 194.75	1748 337.64	1749 480.59
138 45 00	1737 150.53	1738 302.78	1739 455.12	1740 607.55	1741 760.06
138 47 30	1729 392.14	1730 553.95	1731 715.83	1732 877.81	1734 039.86
138 50 00	1721 634.13	1722 805.47	1723 976.90	1725 148.42	1726 320.03
138 52 30	1713 876.45	1715 057.33	1716 238.31	1717 419.39	1718 600.54
138 55 00	1706 119.12	1707 309.56	1708 500.08	1709 690.70	1710 881.41
138 57 30	1698 362.16	1699 562.14	1700 762.22	1701 962.39	1703 162.65
139 00 00	1690 605.55	1691 815.08	1693 024.71	1694 234.43	1695 444.24

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.04	-.04

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 20 00	59 22 30	59 25 00	59 27 30	59 30 00
136 30 00	2750 829.93	2766 044.19	2781 258.58	2796 473.13	2811 687.81
136 32 30	2751 158.37	2766 372.22	2781 586.19	2796 800.32	2812 014.57
136 35 00	2751 491.68	2766 705.10	2781 918.64	2797 132.33	2812 346.15
136 37 30	2751 829.84	2767 042.83	2782 255.93	2797 469.20	2812 682.57
136 40 00	2752 172.85	2767 385.40	2782 598.08	2797 810.89	2813 023.84
136 42 30	2752 520.73	2767 732.83	2782 945.06	2798 157.44	2813 369.93
136 45 00	2752 873.45	2768 085.12	2783 296.90	2798 508.82	2813 720.86
136 47 30	2753 231.04	2768 442.25	2783 653.58	2798 865.05	2814 076.63
136 50 00	2753 593.47	2768 804.23	2784 015.10	2799 226.12	2814 437.24
136 52 30	2753 960.77	2769 171.07	2784 381.48	2799 592.03	2814 802.69
136 55 00	2754 332.92	2769 542.76	2784 752.70	2799 962.78	2815 172.98
136 57 30	2754 709.93	2769 919.30	2785 128.77	2800 338.39	2815 548.10
137 00 00	2755 091.81	2770 300.70	2785 509.69	2800 718.82	2815 928.06
137 02 30	2755 478.53	2770 686.95	2785 895.46	2801 104.11	2816 312.86
137 05 00	2755 870.12	2771 078.05	2786 286.08	2801 494.24	2816 702.50
137 07 30	2756 266.57	2771 474.01	2786 681.56	2801 889.22	2817 096.99
137 10 00	2756 667.88	2771 874.83	2787 081.87	2802 289.05	2817 496.31
137 12 30	2757 074.05	2772 280.50	2787 487.05	2802 693.72	2817 900.48
137 15 00	2757 485.07	2772 691.03	2787 897.07	2803 103.23	2818 309.48
137 17 30	2757 900.97	2773 106.41	2788 311.94	2803 517.59	2818 723.33
137 20 00	2758 321.72	2773 526.65	2788 731.67	2803 936.80	2819 142.02
137 22 30	2758 747.33	2773 951.75	2789 156.24	2804 360.86	2819 565.56
137 25 00	2759 177.81	2774 381.71	2789 585.68	2804 789.76	2819 993.94
137 27 30	2759 613.15	2774 816.51	2790 019.96	2805 223.52	2820 427.15
137 30 00	2760 053.35	2775 256.19	2790 459.10	2805 662.12	2820 865.22
137 32 30	2760 498.41	2775 700.71	2790 903.09	2806 105.57	2821 308.13
137 35 00	2760 948.34	2776 150.10	2791 351.94	2806 553.87	2821 755.89
137 37 30	2761 403.14	2776 604.35	2791 805.64	2807 007.02	2822 208.48
137 40 00	2761 862.80	2777 063.46	2792 264.19	2807 465.02	2822 665.93
137 42 30	2762 327.32	2777 527.43	2792 727.60	2807 927.88	2823 128.22
137 45 00	2762 796.71	2777 996.26	2793 195.87	2808 395.58	2823 595.35
137 47 30	2763 270.96	2778 469.95	2793 668.99	2808 868.13	2824 067.34
137 50 00	2763 750.08	2778 948.50	2794 146.97	2809 345.54	2824 544.17
137 52 30	2764 234.07	2779 431.91	2794 629.81	2809 827.80	2825 025.84
137 55 00	2764 722.93	2779 920.19	2795 117.50	2810 314.91	2825 512.37
137 57 30	2765 216.65	2780 413.33	2795 610.06	2810 806.88	2826 003.74
138 00 00	2765 715.24	2780 911.33	2796 107.47	2811 303.69	2826 499.96
138 02 30	2766 218.70	2781 414.19	2796 609.74	2811 805.36	2827 001.04
138 05 00	2766 727.03	2781 921.92	2797 116.87	2812 311.89	2827 506.96
138 07 30	2767 240.22	2782 434.52	2797 628.86	2812 823.27	2828 017.72
138 10 00	2767 758.29	2782 951.98	2798 145.70	2813 339.50	2828 533.35
138 12 30	2768 281.23	2783 474.30	2798 667.41	2813 860.59	2829 053.82
138 15 00	2768 809.04	2784 001.49	2799 193.98	2814 386.54	2829 579.13
138 17 30	2769 341.72	2784 533.55	2799 725.41	2814 917.34	2830 109.31
138 20 00	2769 879.26	2785 070.46	2800 261.70	2815 453.00	2830 644.33
138 22 30	2770 421.68	2785 612.25	2800 802.85	2815 993.51	2831 184.21
138 25 00	2770 968.97	2786 158.91	2801 348.87	2816 538.88	2831 728.93
138 27 30	2771 521.14	2786 710.43	2801 899.74	2817 089.11	2832 278.52
138 30 00	2772 078.17	2787 266.81	2802 455.48	2817 644.20	2832 832.95
138 32 30	2772 640.08	2787 828.08	2803 016.08	2818 204.15	2833 392.24
138 35 00	2773 206.87	2788 394.20	2803 581.55	2818 768.95	2833 956.38
138 37 30	2773 778.52	2788 965.19	2804 151.88	2819 338.62	2834 525.37
138 40 00	2774 355.05	2789 541.06	2804 727.08	2819 913.14	2835 099.22
138 42 30	2774 936.46	2790 121.79	2805 307.14	2820 492.53	2835 677.93
138 45 00	2775 522.74	2790 707.40	2805 892.06	2821 076.77	2836 261.49
138 47 30	2776 113.90	2791 297.87	2806 481.85	2821 665.88	2836 849.90
138 50 00	2776 709.93	2791 893.21	2807 076.51	2822 259.84	2837 443.17
138 52 30	2777 310.83	2792 493.43	2807 676.03	2822 858.66	2838 041.30
138 55 00	2777 916.62	2793 098.52	2808 280.42	2823 462.35	2838 644.29
138 57 30	2778 527.28	2793 708.48	2808 889.68	2824 070.90	2839 252.13
139 00 00	2779 142.82	2794 323.32	2809 503.80	2824 684.31	2839 864.83

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.34	-.39	-.44	-.48	-.51	-.54	-.57	-.59	-.60	-.61	-.61

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 20 00	59 22 30	59 25 00	59 27 30	59 30 00
139 00 00	1690 605.55	1691 815.08	1693 024.71	1694 234.43	1695 444.24
139 02 30	1682 849.31	1684 068.38	1685 287.56	1686 506.84	1687 726.20
139 05 00	1675 093.43	1676 322.06	1677 550.78	1678 779.61	1680 008.54
139 07 30	1667 337.92	1668 576.09	1669 814.36	1671 052.75	1672 291.23
139 10 00	1659 582.77	1660 830.49	1662 078.32	1663 326.26	1664 574.29
139 12 30	1651 828.01	1653 085.28	1654 342.66	1655 600.15	1656 857.74
139 15 00	1644 073.61	1645 340.43	1646 607.37	1647 874.41	1649 141.56
139 17 30	1636 319.58	1637 595.96	1638 872.45	1640 149.05	1641 425.76
139 20 00	1628 565.95	1629 851.87	1631 137.92	1632 424.07	1633 710.34
139 22 30	1620 812.68	1622 108.16	1623 403.76	1624 699.48	1625 995.31
139 25 00	1613 059.80	1614 364.84	1615 670.00	1616 975.27	1618 280.66
139 27 30	1605 307.32	1606 621.91	1607 936.63	1609 251.46	1610 566.41
139 30 00	1597 555.22	1598 879.36	1600 203.64	1601 528.03	1602 852.55
139 32 30	1589 803.51	1591 137.21	1592 471.04	1593 805.00	1595 139.07
139 35 00	1582 052.20	1583 395.46	1584 738.85	1586 082.37	1587 426.01
139 37 30	1574 301.28	1575 654.10	1577 007.05	1578 360.13	1579 713.33
139 40 00	1566 550.76	1567 913.14	1569 275.65	1570 638.29	1572 001.06
139 42 30	1558 800.66	1560 172.59	1561 544.67	1562 916.87	1564 289.20
139 45 00	1551 050.94	1552 432.44	1553 814.08	1555 195.85	1556 577.74
139 47 30	1543 301.64	1544 692.70	1546 083.90	1547 475.23	1548 866.70
139 50 00	1535 552.75	1536 953.37	1538 354.13	1539 755.04	1541 156.06
139 52 30	1527 804.27	1529 214.45	1530 624.78	1532 035.25	1533 445.85
139 55 00	1520 056.21	1521 475.95	1522 895.84	1524 315.88	1525 736.05
139 57 30	1512 308.56	1513 737.87	1515 167.33	1516 596.93	1518 026.67
140 00 00	1504 561.33	1506 000.21	1507 439.23	1508 878.40	1510 317.71
140 02 30	1496 814.53	1498 262.96	1499 711.56	1501 160.29	1502 609.18
140 05 00	1489 068.15	1490 526.16	1491 984.32	1493 442.62	1494 901.08
140 07 30	1481 322.19	1482 789.77	1484 257.50	1485 725.38	1487 193.40
140 10 00	1473 576.67	1475 053.81	1476 531.12	1478 008.56	1479 486.16
140 12 30	1465 831.59	1467 318.30	1468 805.17	1470 292.19	1471 779.36
140 15 00	1458 086.94	1459 583.22	1461 079.66	1462 576.25	1464 073.00
140 17 30	1450 342.72	1451 848.57	1453 354.58	1454 860.75	1456 367.07
140 20 00	1442 598.96	1444 114.37	1445 629.95	1447 145.70	1448 661.60
140 22 30	1434 855.62	1436 380.61	1437 905.77	1439 431.09	1440 956.56
140 25 00	1427 112.74	1428 647.30	1430 182.03	1431 716.92	1433 251.98
140 27 30	1419 370.30	1420 914.44	1422 458.75	1424 003.22	1425 547.85
140 30 00	1411 628.32	1413 182.03	1414 735.91	1416 289.96	1417 844.17
140 32 30	1403 886.79	1405 450.07	1407 013.52	1408 577.15	1410 140.94
140 35 00	1396 145.72	1397 718.58	1399 291.61	1400 864.81	1402 438.18
140 37 30	1388 405.10	1389 987.53	1391 570.14	1393 152.93	1394 735.87
140 40 00	1380 664.95	1382 256.96	1383 849.14	1385 441.50	1387 034.03
140 42 30	1372 925.26	1374 526.85	1376 128.62	1377 730.55	1379 332.67
140 45 00	1365 186.04	1366 797.20	1368 408.55	1370 020.07	1371 631.76
140 47 30	1357 447.29	1359 068.03	1360 688.95	1362 310.06	1363 931.34
140 50 00	1349 709.01	1351 339.33	1352 969.83	1354 600.52	1356 231.39
140 52 30	1341 971.20	1343 611.10	1345 251.18	1346 891.45	1348 531.90
140 55 00	1334 233.87	1335 883.35	1337 533.02	1339 182.88	1340 832.91
140 57 30	1326 497.03	1328 156.08	1329 815.34	1331 474.77	1333 134.39
141 00 00	1318 760.66	1320 429.30	1322 098.13	1323 767.16	1325 436.36
141 02 30	1311 024.78	1312 703.00	1314 381.42	1316 060.03	1317 738.82
141 05 00	1303 289.38	1304 977.19	1306 665.20	1308 353.39	1310 041.77
141 07 30	1295 554.48	1297 251.86	1298 949.46	1300 647.24	1302 345.21
141 10 00	1287 820.07	1289 527.05	1291 234.22	1292 941.59	1294 649.16
141 12 30	1280 086.16	1281 802.72	1283 519.48	1285 236.44	1286 953.59
141 15 00	1272 352.74	1274 078.89	1275 805.23	1277 531.78	1279 258.52
141 17 30	1264 619.83	1266 355.56	1268 091.49	1269 827.63	1271 563.97
141 20 00	1256 887.41	1258 632.73	1260 378.26	1262 123.99	1263 869.91
141 22 30	1249 155.50	1250 910.41	1252 665.53	1254 420.85	1256 176.37
141 25 00	1241 424.11	1243 188.61	1244 953.31	1246 718.23	1248 483.33
141 27 30	1233 693.23	1235 467.31	1237 241.60	1239 016.11	1240 790.82
141 30 00	1225 962.85	1227 746.52	1229 530.41	1231 314.51	1233 098.81

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.02	-.04	-.05	-.06	-.06

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 20 00	59 22 30	59 25 00	59 27 30	59 30 00
139 00 00	2779 142.82	2794 323.32	2809 503.80	2824 684.31	2839 864.83
139 02 30	2779 763.24	2794 943.02	2810 122.80	2825 302.59	2840 482.39
139 05 00	2780 388.53	2795 567.59	2810 746.66	2825 925.74	2841 104.80
139 07 30	2781 018.71	2796 197.05	2811 375.38	2826 553.73	2841 732.08
139 10 00	2781 653.76	2796 831.37	2812 008.98	2827 186.60	2842 364.21
139 12 30	2782 293.69	2797 470.57	2812 647.44	2827 824.33	2843 001.20
139 15 00	2782 938.50	2798 114.65	2813 290.78	2828 466.93	2843 643.05
139 17 30	2783 588.19	2798 763.60	2813 938.99	2829 114.39	2844 289.76
139 20 00	2784 242.76	2799 417.43	2814 592.06	2829 766.71	2844 941.34
139 22 30	2784 902.21	2800 076.13	2815 250.01	2830 423.91	2845 597.78
139 25 00	2785 566.54	2800 739.70	2815 912.83	2831 085.97	2846 259.07
139 27 30	2786 235.76	2801 408.16	2816 580.52	2831 752.89	2846 925.23
139 30 00	2786 909.86	2802 081.49	2817 253.08	2832 424.68	2847 596.24
139 32 30	2787 588.83	2802 759.69	2817 930.52	2833 101.34	2848 272.12
139 35 00	2788 272.69	2803 442.78	2818 612.82	2833 782.86	2848 952.87
139 37 30	2788 961.44	2804 130.74	2819 300.00	2834 469.26	2849 638.47
139 40 00	2789 655.07	2804 823.58	2819 992.06	2835 160.52	2850 328.94
139 42 30	2790 353.58	2805 521.30	2820 688.98	2835 856.65	2851 024.27
139 45 00	2791 056.97	2806 223.91	2821 390.79	2836 557.65	2851 724.48
139 47 30	2791 765.26	2806 931.38	2822 097.46	2837 263.52	2852 429.53
139 50 00	2792 478.42	2807 643.74	2822 809.01	2837 974.26	2853 139.46
139 52 30	2793 196.47	2808 360.98	2823 525.44	2838 689.87	2853 854.26
139 55 00	2793 919.41	2809 083.10	2824 246.74	2839 410.35	2854 573.91
139 57 30	2794 647.23	2809 810.10	2824 972.92	2840 135.70	2855 298.43
140 00 00	2795 379.93	2810 541.98	2825 703.97	2840 865.93	2856 027.82
140 02 30	2796 117.53	2811 278.74	2826 439.90	2841 601.02	2856 762.08
140 05 00	2796 860.01	2812 020.39	2827 180.71	2842 340.99	2857 501.20
140 07 30	2797 607.38	2812 766.92	2827 926.39	2843 085.82	2858 245.19
140 10 00	2798 359.64	2813 518.33	2828 676.95	2843 835.54	2858 994.05
140 12 30	2799 116.78	2814 274.62	2829 432.39	2844 590.12	2859 747.77
140 15 00	2799 878.81	2815 035.80	2830 192.71	2845 349.58	2860 506.37
140 17 30	2800 645.74	2815 801.87	2830 957.91	2846 113.91	2861 269.83
140 20 00	2801 417.55	2816 572.81	2831 727.99	2846 883.11	2862 038.16
140 22 30	2802 194.25	2817 348.64	2832 502.94	2847 657.19	2862 811.36
140 25 00	2802 975.84	2818 129.35	2833 282.78	2848 436.15	2863 589.44
140 27 30	2803 762.33	2818 914.96	2834 067.49	2849 219.98	2864 372.37
140 30 00	2804 553.70	2819 705.44	2834 857.09	2850 008.68	2865 160.19
140 32 30	2805 349.96	2820 500.81	2835 651.57	2850 802.26	2865 952.87
140 35 00	2806 151.12	2821 301.07	2836 450.93	2851 600.72	2866 750.42
140 37 30	2806 957.16	2822 106.22	2837 255.17	2852 404.06	2867 552.84
140 40 00	2807 768.11	2822 916.25	2838 064.30	2853 212.27	2868 360.14
140 42 30	2808 583.94	2823 731.17	2838 878.30	2854 025.35	2869 172.31
140 45 00	2809 404.67	2824 550.98	2839 697.19	2854 843.32	2869 989.35
140 47 30	2810 230.28	2825 375.67	2840 520.96	2855 666.16	2870 811.26
140 50 00	2811 060.80	2826 205.26	2841 349.61	2856 493.88	2871 638.05
140 52 30	2811 896.20	2827 039.74	2842 183.15	2857 326.49	2872 469.71
140 55 00	2812 736.50	2827 879.10	2843 021.57	2858 163.97	2873 306.24
140 57 30	2813 581.70	2828 723.35	2843 864.88	2859 006.32	2874 147.65
141 00 00	2814 431.79	2829 572.49	2844 713.07	2859 853.57	2874 993.94
141 02 30	2815 286.77	2830 426.52	2845 566.15	2860 705.68	2875 845.09
141 05 00	2816 146.65	2831 285.45	2846 424.11	2861 562.68	2876 701.13
141 07 30	2817 011.43	2832 149.26	2847 286.96	2862 424.56	2877 562.04
141 10 00	2817 881.11	2833 017.97	2848 154.69	2863 291.32	2878 427.82
141 12 30	2818 755.67	2833 891.56	2849 027.31	2864 162.96	2879 298.48
141 15 00	2819 635.14	2834 770.05	2849 904.82	2865 039.48	2880 174.02
141 17 30	2820 519.51	2835 653.43	2850 787.22	2865 920.89	2881 054.43
141 20 00	2821 408.78	2836 541.71	2851 674.50	2866 807.18	2881 939.72
141 22 30	2822 302.94	2837 434.87	2852 566.67	2867 698.35	2882 829.89
141 25 00	2823 201.99	2838 332.94	2853 463.73	2868 594.40	2883 724.94
141 27 30	2824 105.96	2839 235.89	2854 365.68	2869 495.34	2884 624.86
141 30 00	2825 014.82	2840 143.74	2855 272.51	2870 401.16	2885 529.67

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.34	-.39	-.44	-.48	-.51	-.54	-.57	-.59	-.60	-.61	-.61

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 30 00	59 32 30	59 35 00	59 37 30	59 40 00
134 00 00	2623 546.58	2623 615.21	2623 683.62	2623 751.81	2623 819.79
134 02 30	2615 802.24	2615 880.33	2615 958.20	2616 035.87	2616 113.31
134 05 00	2608 057.98	2608 145.53	2608 232.88	2608 320.01	2608 406.94
134 07 30	2600 313.80	2600 410.81	2600 507.63	2600 604.24	2600 700.63
134 10 00	2592 569.69	2592 676.18	2592 782.47	2592 888.55	2592 994.42
134 12 30	2584 825.68	2584 941.63	2585 057.40	2585 172.95	2585 288.29
134 15 00	2577 081.75	2577 207.17	2577 332.40	2577 457.43	2577 582.26
134 17 30	2569 337.91	2569 472.80	2569 607.51	2569 742.01	2569 876.31
134 20 00	2561 594.17	2561 738.53	2561 882.71	2562 026.69	2562 170.47
134 22 30	2553 850.52	2554 004.35	2554 158.00	2554 311.45	2554 464.72
134 25 00	2546 106.96	2546 270.27	2546 433.39	2546 596.32	2546 759.06
134 27 30	2538 363.51	2538 536.29	2538 708.89	2538 881.30	2539 053.52
134 30 00	2530 620.15	2530 802.40	2530 984.48	2531 166.37	2531 348.07
134 32 30	2522 876.90	2523 068.63	2523 260.18	2523 451.55	2523 642.74
134 35 00	2515 133.76	2515 334.96	2515 535.99	2515 736.84	2515 937.51
134 37 30	2507 390.72	2507 601.40	2507 811.91	2508 022.24	2508 232.39
134 40 00	2499 647.79	2499 867.95	2500 087.93	2500 307.75	2500 527.39
134 42 30	2491 904.98	2492 134.62	2492 364.08	2492 593.38	2492 822.50
134 45 00	2484 162.29	2484 401.39	2484 640.34	2484 879.12	2485 117.73
134 47 30	2476 419.70	2476 668.29	2476 916.72	2477 164.98	2477 413.08
134 50 00	2468 677.24	2468 935.31	2469 193.22	2469 450.97	2469 708.56
134 52 30	2460 934.90	2461 202.45	2461 469.85	2461 737.08	2462 004.16
134 55 00	2453 192.70	2453 469.73	2453 746.60	2454 023.33	2454 299.89
134 57 30	2445 450.61	2445 737.12	2446 023.48	2446 309.69	2446 595.75
135 00 00	2437 708.65	2438 004.64	2438 300.49	2438 596.19	2438 891.73
135 02 30	2429 966.83	2430 272.30	2430 577.64	2430 882.83	2431 187.86
135 05 00	2422 225.13	2422 540.09	2422 854.92	2423 169.59	2423 484.12
135 07 30	2414 483.57	2414 808.02	2415 132.33	2415 456.50	2415 780.52
135 10 00	2406 742.16	2407 076.09	2407 409.89	2407 743.55	2408 077.07
135 12 30	2399 000.88	2399 344.30	2399 687.59	2400 030.74	2400 373.75
135 15 00	2391 259.75	2391 612.65	2391 965.43	2392 318.08	2392 670.58
135 17 30	2383 518.77	2383 881.16	2384 243.43	2384 605.56	2384 967.57
135 20 00	2375 777.92	2376 149.80	2376 521.57	2376 893.20	2377 264.70
135 22 30	2368 037.23	2368 418.61	2368 799.86	2369 180.99	2369 561.98
135 25 00	2360 296.70	2360 687.57	2361 078.31	2361 468.93	2361 859.43
135 27 30	2352 556.32	2352 956.67	2353 356.91	2353 757.03	2354 157.02
135 30 00	2344 816.09	2345 225.94	2345 635.67	2346 045.29	2346 454.78
135 32 30	2337 076.03	2337 495.37	2337 914.60	2338 333.71	2338 752.71
135 35 00	2329 336.13	2329 764.96	2330 193.69	2330 622.30	2331 050.79
135 37 30	2321 596.39	2322 034.72	2322 472.94	2322 911.05	2323 349.05
135 40 00	2313 856.82	2314 304.64	2314 752.36	2315 199.98	2315 647.48
135 42 30	2306 117.42	2306 574.74	2307 031.95	2307 489.07	2307 946.08
135 45 00	2298 378.18	2298 845.00	2299 311.72	2299 778.34	2300 244.85
135 47 30	2290 639.13	2291 115.44	2291 591.66	2292 067.78	2292 543.80
135 50 00	2282 900.25	2283 386.06	2283 871.78	2284 357.40	2284 842.92
135 52 30	2275 161.54	2275 656.85	2276 152.07	2276 647.20	2277 142.23
135 55 00	2267 423.02	2267 927.84	2268 432.56	2268 937.19	2269 441.73
135 57 30	2259 684.68	2260 199.00	2260 713.22	2261 227.36	2261 741.40
136 00 00	2251 946.53	2252 470.34	2252 994.08	2253 517.72	2254 041.28
136 02 30	2244 208.58	2244 741.89	2245 275.12	2245 808.27	2246 341.34
136 05 00	2236 470.80	2237 013.62	2237 556.35	2238 099.01	2238 641.59
136 07 30	2228 733.22	2229 285.54	2229 837.78	2230 389.96	2230 942.04
136 10 00	2220 995.83	2221 557.66	2222 119.42	2222 681.09	2223 242.69
136 12 30	2213 258.65	2213 829.98	2214 401.24	2214 972.43	2215 543.54
136 15 00	2205 521.66	2206 102.50	2206 683.26	2207 263.96	2207 844.59
136 17 30	2197 784.88	2198 375.22	2198 965.50	2199 555.71	2200 145.85
136 20 00	2190 048.30	2190 648.15	2191 247.94	2191 847.66	2192 447.31
136 22 30	2182 311.92	2182 921.28	2183 530.58	2184 139.82	2184 748.99
136 25 00	2174 575.76	2175 194.64	2175 813.44	2176 432.20	2177 050.88
136 27 30	2166 839.81	2167 468.19	2168 096.51	2168 724.78	2169 352.98
136 30 00	2159 104.07	2159 741.96	2160 379.80	2161 017.58	2161 655.30

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.01	+.02	+.02	+.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 30 00	59 32 30	59 35 00	59 37 30	59 40 00
134 00 00	2800 916.61	2816 148.71	2831 381.07	2846 613.69	2861 846.58
134 02 30	2800 953.96	2816 185.91	2831 418.11	2846 650.58	2861 883.31
134 05 00	2800 996.12	2816 227.91	2831 459.96	2846 692.27	2861 924.83
134 07 30	2801 043.09	2816 274.73	2831 506.61	2846 738.75	2861 971.15
134 10 00	2801 094.87	2816 326.34	2831 558.05	2846 790.03	2862 022.26
134 12 30	2801 151.47	2816 382.77	2831 614.31	2846 846.11	2862 078.17
134 15 00	2801 212.89	2816 444.01	2831 675.37	2846 906.99	2862 138.87
134 17 30	2801 279.11	2816 510.05	2831 741.24	2846 972.67	2862 204.36
134 20 00	2801 350.16	2816 580.91	2831 811.91	2847 043.15	2862 274.66
134 22 30	2801 426.00	2816 656.57	2831 887.38	2847 118.43	2862 349.74
134 25 00	2801 506.67	2816 737.05	2831 967.66	2847 198.52	2862 429.63
134 27 30	2801 592.16	2816 822.33	2832 052.74	2847 283.40	2862 514.31
134 30 00	2801 682.45	2816 912.43	2832 142.64	2847 373.09	2862 603.79
134 32 30	2801 777.57	2817 007.34	2832 237.34	2847 467.58	2862 698.06
134 35 00	2801 877.50	2817 107.06	2832 336.85	2847 566.87	2862 797.14
134 37 30	2801 982.25	2817 211.59	2832 441.16	2847 670.96	2862 901.02
134 40 00	2802 091.81	2817 320.94	2832 550.29	2847 779.87	2863 009.69
134 42 30	2802 206.20	2817 435.10	2832 664.22	2847 893.57	2863 123.15
134 45 00	2802 325.41	2817 554.07	2832 782.95	2848 012.07	2863 241.43
134 47 30	2802 449.42	2817 677.85	2832 906.50	2848 135.39	2863 364.50
134 50 00	2802 578.26	2817 806.45	2833 034.87	2848 263.50	2863 492.38
134 52 30	2802 711.92	2817 939.87	2833 168.03	2848 396.43	2863 625.05
134 55 00	2802 850.39	2818 078.10	2833 306.02	2848 534.16	2863 762.52
134 57 30	2802 993.70	2818 221.14	2833 448.81	2848 676.69	2863 904.80
135 00 00	2803 141.81	2818 369.01	2833 596.41	2848 824.03	2864 051.87
135 02 30	2803 294.75	2818 521.68	2833 748.82	2848 976.18	2864 203.76
135 05 00	2803 452.52	2818 679.18	2833 906.05	2849 133.13	2864 360.44
135 07 30	2803 615.10	2818 841.49	2834 068.08	2849 294.90	2864 521.93
135 10 00	2803 782.50	2819 008.61	2834 234.93	2849 461.46	2864 688.21
135 12 30	2803 954.73	2819 180.56	2834 406.60	2849 632.84	2864 859.30
135 15 00	2804 131.78	2819 357.32	2834 583.07	2849 809.03	2865 035.20
135 17 30	2804 313.65	2819 538.91	2834 764.37	2849 990.03	2865 215.91
135 20 00	2804 500.34	2819 725.31	2834 950.48	2850 175.84	2865 401.41
135 22 30	2804 691.86	2819 916.53	2835 141.39	2850 366.45	2865 591.73
135 25 00	2804 888.21	2820 112.57	2835 337.12	2850 561.88	2865 786.85
135 27 30	2805 089.38	2820 313.43	2835 537.68	2850 762.12	2865 986.77
135 30 00	2805 295.37	2820 519.11	2835 743.05	2850 967.17	2866 191.50
135 32 30	2805 506.19	2820 729.61	2835 953.23	2851 177.03	2866 401.04
135 35 00	2805 721.84	2820 944.94	2836 168.23	2851 391.71	2866 615.39
135 37 30	2805 942.31	2821 165.08	2836 388.04	2851 611.19	2866 834.55
135 40 00	2806 167.61	2821 390.05	2836 612.68	2851 835.49	2867 058.50
135 42 30	2806 397.73	2821 619.84	2836 842.13	2852 064.61	2867 287.28
135 45 00	2806 632.69	2821 854.45	2837 076.40	2852 298.53	2867 520.86
135 47 30	2806 872.47	2822 093.89	2837 315.49	2852 537.27	2867 759.24
135 50 00	2807 117.08	2822 338.15	2837 559.40	2852 780.82	2868 002.44
135 52 30	2807 366.52	2822 587.24	2837 808.12	2853 029.20	2868 250.45
135 55 00	2807 620.79	2822 841.14	2838 061.67	2853 282.38	2868 503.27
135 57 30	2807 879.89	2823 099.88	2838 320.04	2853 540.38	2868 760.90
136 00 00	2808 143.81	2823 363.43	2838 583.23	2853 803.19	2869 023.34
136 02 30	2808 412.57	2823 631.82	2838 851.24	2854 070.82	2869 290.59
136 05 00	2808 686.16	2823 905.03	2839 124.07	2854 343.28	2869 562.66
136 07 30	2808 964.58	2824 183.07	2839 401.72	2854 620.54	2869 839.54
136 10 00	2809 247.83	2824 465.93	2839 684.19	2854 902.62	2870 121.22
136 12 30	2809 535.91	2824 753.62	2839 971.49	2855 189.52	2870 407.72
136 15 00	2809 828.83	2825 046.13	2840 263.61	2855 481.24	2870 699.04
136 17 30	2810 126.57	2825 343.48	2840 560.55	2855 777.78	2870 995.17
136 20 00	2810 429.15	2825 645.66	2840 862.31	2856 079.13	2871 296.11
136 22 30	2810 736.57	2825 952.66	2841 168.91	2856 385.30	2871 601.87
136 25 00	2811 048.81	2826 264.50	2841 480.32	2856 696.30	2871 912.44
136 27 30	2811 365.90	2826 581.15	2841 796.56	2857 012.12	2872 227.83
136 30 00	2811 687.81	2826 902.65	2842 117.63	2857 332.75	2872 548.03

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.33	-.38	-.43	-.47	-.50	-.53	-.56	-.58	-.59	-.60	-.60

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.03	-.03

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 30 00	59 32 30	59 35 00	59 37 30	59 40 00
136 30 00	2159 104.07	2159 741.96	2160 379.80	2161 017.58	2161 655.30
136 32 30	2151 368.56	2152 015.96	2152 663.31	2153 310.61	2153 957.84
136 35 00	2143 633.26	2144 290.17	2144 947.03	2145 603.85	2146 260.61
136 37 30	2135 898.17	2136 564.60	2137 230.98	2137 897.32	2138 563.59
136 40 00	2128 163.33	2128 839.26	2129 515.16	2130 191.01	2130 866.81
136 42 30	2120 428.70	2121 114.15	2121 799.56	2122 484.93	2123 170.25
136 45 00	2112 694.29	2113 389.26	2114 084.19	2114 779.08	2115 473.93
136 47 30	2104 960.13	2105 664.61	2106 369.06	2107 073.48	2107 777.84
136 50 00	2097 226.19	2097 940.20	2098 654.17	2099 368.10	2100 081.99
136 52 30	2089 492.50	2090 216.02	2090 939.51	2091 662.96	2092 386.38
136 55 00	2081 759.04	2082 492.07	2083 225.09	2083 958.06	2084 691.00
136 57 30	2074 025.82	2074 768.37	2075 510.90	2076 253.40	2076 995.87
137 00 00	2066 292.85	2067 044.92	2067 796.98	2068 549.00	2069 301.00
137 02 30	2058 560.12	2059 321.71	2060 083.28	2060 844.84	2061 606.36
137 05 00	2050 827.63	2051 598.75	2052 369.85	2053 140.93	2053 911.98
137 07 30	2043 095.41	2043 876.05	2044 656.67	2045 437.27	2046 217.85
137 10 00	2035 363.43	2036 153.59	2036 943.74	2037 733.87	2038 523.98
137 12 30	2027 631.70	2028 431.39	2029 231.06	2030 030.72	2030 830.36
137 15 00	2019 900.24	2020 709.45	2021 518.65	2022 327.85	2023 137.01
137 17 30	2012 169.04	2012 987.77	2013 806.50	2014 625.22	2015 443.92
137 20 00	2004 438.09	2005 266.36	2006 094.62	2006 922.86	2007 751.10
137 22 30	1996 707.42	1997 545.21	1998 383.00	1999 220.78	2000 058.55
137 25 00	1988 977.01	1989 824.33	1990 671.65	1991 518.96	1992 366.26
137 27 30	1981 246.87	1982 103.72	1982 960.56	1983 817.41	1984 674.25
137 30 00	1973 517.01	1974 383.39	1975 249.76	1976 116.14	1976 982.52
137 32 30	1965 787.42	1966 663.32	1967 539.23	1968 415.14	1969 291.06
137 35 00	1958 058.11	1958 943.54	1959 828.98	1960 714.43	1961 599.88
137 37 30	1950 329.08	1951 224.04	1952 119.02	1953 014.00	1953 908.99
137 40 00	1942 600.33	1943 504.82	1944 409.33	1945 313.85	1946 218.38
137 42 30	1934 871.86	1935 785.89	1936 699.93	1937 613.99	1938 528.06
137 45 00	1927 143.69	1928 067.25	1928 990.83	1929 914.42	1930 838.03
137 47 30	1919 415.80	1920 348.89	1921 282.01	1922 215.15	1923 148.29
137 50 00	1911 688.20	1912 630.83	1913 573.48	1914 516.15	1915 458.83
137 52 30	1903 960.90	1904 913.07	1905 865.26	1906 817.48	1907 769.71
137 55 00	1896 233.90	1897 195.60	1898 157.33	1899 119.08	1900 080.86
137 57 30	1888 507.19	1889 478.43	1890 449.70	1891 420.99	1892 392.31
138 00 00	1880 780.79	1881 761.57	1882 742.38	1883 723.22	1884 704.08
138 02 30	1873 054.70	1874 045.01	1875 035.36	1876 025.74	1877 016.15
138 05 00	1865 328.90	1866 328.76	1867 328.65	1868 328.58	1869 328.53
138 07 30	1857 603.43	1858 612.82	1859 622.26	1860 631.72	1861 641.22
138 10 00	1849 878.26	1850 897.19	1851 916.17	1852 935.19	1853 954.23
138 12 30	1842 153.40	1843 181.88	1844 210.40	1845 238.96	1846 267.55
138 15 00	1834 428.87	1835 466.88	1836 504.95	1837 543.06	1838 581.20
138 17 30	1826 704.65	1827 752.21	1828 799.82	1829 847.48	1830 895.17
138 20 00	1818 980.75	1820 037.86	1821 095.01	1822 152.22	1823 209.46
138 22 30	1811 257.18	1812 323.83	1813 390.53	1814 457.29	1815 524.08
138 25 00	1803 533.94	1804 610.13	1805 686.39	1806 762.68	1807 839.04
138 27 30	1795 811.02	1796 896.76	1797 982.56	1799 068.41	1800 154.31
138 30 00	1788 088.44	1789 183.72	1790 279.07	1791 374.47	1792 469.93
138 32 30	1780 366.19	1781 471.02	1782 575.92	1783 680.88	1784 785.89
138 35 00	1772 644.28	1773 758.66	1774 873.11	1775 987.62	1777 102.18
138 37 30	1764 922.71	1766 046.64	1767 170.64	1768 294.70	1769 418.82
138 40 00	1757 201.48	1758 334.96	1759 468.51	1760 602.13	1761 735.80
138 42 30	1749 480.59	1750 623.62	1751 766.72	1752 909.89	1754 053.12
138 45 00	1741 760.06	1742 912.64	1744 065.29	1745 218.02	1746 370.80
138 47 30	1734 039.86	1735 202.00	1736 364.20	1737 526.49	1738 688.83
138 50 00	1726 320.03	1727 491.72	1728 663.48	1729 835.32	1731 007.22
138 52 30	1718 600.54	1719 781.78	1720 963.10	1722 144.50	1723 325.96
138 55 00	1710 881.41	1712 072.21	1713 263.08	1714 454.03	1715 645.06
138 57 30	1703 162.65	1704 363.00	1705 563.43	1706 763.95	1707 964.53
139 00 00	1695 444.24	1696 654.15	1697 864.14	1699 074.21	1700 284.36

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.04	-.04

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 30 00	59 32 30	59 35 00	59 37 30	59 40 00
136 30 00	2811 687.81	2826 902.65	2842 117.63	2857 332.75	2872 548.03
136 32 30	2812 014.57	2827 228.97	2842 443.52	2857 658.21	2872 873.06
136 35 00	2812 346.15	2827 560.12	2842 774.23	2857 988.49	2873 202.89
136 37 30	2812 682.57	2827 896.11	2843 109.77	2858 323.58	2873 537.54
136 40 00	2813 023.84	2828 236.92	2843 450.14	2858 663.51	2873 877.02
136 42 30	2813 369.93	2828 582.57	2843 795.34	2859 008.25	2874 221.31
136 45 00	2813 720.86	2828 933.05	2844 145.36	2859 357.81	2874 570.41
136 47 30	2814 076.63	2829 288.36	2844 500.21	2859 712.20	2874 924.33
136 50 00	2814 437.24	2829 648.50	2844 859.89	2860 071.42	2875 283.07
136 52 30	2814 802.69	2830 013.48	2845 224.40	2860 435.45	2875 646.64
136 55 00	2815 172.98	2830 383.30	2845 593.74	2860 804.31	2876 015.02
136 57 30	2815 548.10	2830 757.94	2845 967.90	2861 177.99	2876 388.23
137 00 00	2815 928.06	2831 137.42	2846 346.90	2861 556.51	2876 766.24
137 02 30	2816 312.86	2831 521.74	2846 730.73	2861 939.85	2877 149.09
137 05 00	2816 702.50	2831 910.89	2847 119.38	2862 328.01	2877 536.75
137 07 30	2817 096.99	2832 304.87	2847 512.87	2862 720.99	2877 929.23
137 10 00	2817 496.31	2832 703.70	2847 911.19	2863 118.80	2878 326.54
137 12 30	2817 900.48	2833 107.36	2848 314.35	2863 521.44	2878 728.67
137 15 00	2818 309.48	2833 515.86	2848 722.33	2863 928.91	2879 135.62
137 17 30	2818 723.33	2833 929.18	2849 135.14	2864 341.21	2879 547.39
137 20 00	2819 142.02	2834 347.35	2849 552.79	2864 758.33	2879 963.99
137 22 30	2819 565.56	2834 770.36	2849 975.27	2865 180.29	2880 385.41
137 25 00	2819 993.94	2835 198.21	2850 402.59	2865 607.07	2880 811.65
137 27 30	2820 427.15	2835 630.90	2850 834.73	2866 038.67	2881 242.72
137 30 00	2820 865.22	2836 068.42	2851 271.72	2866 475.11	2881 678.62
137 32 30	2821 308.13	2836 510.78	2851 713.54	2866 916.39	2882 119.34
137 35 00	2821 755.89	2836 957.99	2852 160.19	2867 362.48	2882 564.88
137 37 30	2822 208.48	2837 410.03	2852 611.68	2867 813.41	2883 015.25
137 40 00	2822 665.93	2837 866.92	2853 068.00	2868 269.17	2883 470.44
137 42 30	2823 128.22	2838 328.65	2853 529.16	2868 729.77	2883 930.47
137 45 00	2823 595.35	2838 795.21	2853 995.16	2869 195.19	2884 395.31
137 47 30	2824 067.34	2839 266.62	2854 465.99	2869 665.45	2884 864.99
137 50 00	2824 544.17	2839 742.88	2854 941.67	2870 140.54	2885 339.50
137 52 30	2825 025.84	2840 223.97	2855 422.18	2870 620.46	2885 818.82
137 55 00	2825 512.37	2840 709.91	2855 907.52	2871 105.21	2886 302.98
137 57 30	2826 003.74	2841 200.69	2856 397.71	2871 594.80	2886 791.97
138 00 00	2826 499.96	2841 696.31	2856 892.73	2872 089.22	2887 285.79
138 02 30	2827 001.04	2842 196.78	2857 392.59	2872 588.47	2887 784.43
138 05 00	2827 506.96	2842 702.09	2857 897.29	2873 092.56	2888 287.92
138 07 30	2828 017.72	2843 212.25	2858 406.84	2873 601.49	2888 796.22
138 10 00	2828 533.35	2843 727.26	2858 921.22	2874 115.26	2889 309.36
138 12 30	2829 053.82	2844 247.10	2859 440.44	2874 633.85	2889 827.33
138 15 00	2829 579.13	2844 771.79	2859 964.51	2875 157.28	2890 350.12
138 17 30	2830 109.31	2845 301.33	2860 493.42	2875 685.55	2890 877.76
138 20 00	2830 644.33	2845 835.72	2861 027.17	2876 218.66	2891 410.22
138 22 30	2831 184.21	2846 374.96	2861 565.75	2876 756.61	2891 947.51
138 25 00	2831 728.93	2846 919.04	2862 109.18	2877 299.39	2892 489.64
138 27 30	2832 278.52	2847 467.97	2862 657.46	2877 847.01	2893 036.61
138 30 00	2832 832.95	2848 021.74	2863 210.58	2878 399.47	2893 588.40
138 32 30	2833 392.24	2848 580.37	2863 768.54	2878 956.76	2894 145.04
138 35 00	2833 956.38	2849 143.85	2864 331.35	2879 518.90	2894 706.49
138 37 30	2834 525.37	2849 712.17	2864 899.00	2880 085.87	2895 272.79
138 40 00	2835 099.22	2850 285.34	2865 471.50	2880 657.68	2895 843.92
138 42 30	2835 677.93	2850 863.36	2866 048.84	2881 234.34	2896 419.89
138 45 00	2836 261.49	2851 446.24	2866 631.02	2881 815.84	2897 000.69
138 47 30	2836 849.90	2852 033.96	2867 218.05	2882 402.17	2897 586.33
138 50 00	2837 443.17	2852 626.54	2867 809.93	2882 993.35	2898 176.80
138 52 30	2838 041.30	2853 223.97	2868 406.65	2883 589.37	2898 772.12
138 55 00	2838 644.29	2853 826.24	2869 008.23	2884 190.23	2899 372.26
138 57 30	2839 252.13	2854 433.38	2869 614.64	2884 795.93	2899 977.25
139 00 00	2839 864.83	2855 045.36	2870 225.91	2885 406.48	2900 587.07

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.33	-.38	-.43	-.47	-.50	-.53	-.56	-.58	-.59	-.60	-.60

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 30 00	59 32 30	59 35 00	59 37 30	59 40 00
139 00 00	1695 444.24	1696 654.15	1697 864.14	1699 074.21	1700 284.36
139 02 30	1687 726.20	1688 945.66	1690 165.21	1691 384.84	1692 604.55
139 05 00	1680 008.54	1681 237.55	1682 466.65	1683 695.85	1684 925.12
139 07 30	1672 291.23	1673 529.80	1674 768.47	1676 007.22	1677 246.06
139 10 00	1664 574.29	1665 822.43	1667 070.66	1668 318.97	1669 567.37
139 12 30	1656 857.74	1658 115.44	1659 373.22	1660 631.10	1661 889.07
139 15 00	1649 141.56	1650 408.81	1651 676.16	1652 943.61	1654 211.14
139 17 30	1641 425.76	1642 702.57	1643 979.48	1645 256.49	1646 533.59
139 20 00	1633 710.34	1634 996.72	1636 283.19	1637 569.77	1638 856.43
139 22 30	1625 995.31	1627 291.24	1628 587.28	1629 883.42	1631 179.66
139 25 00	1618 280.66	1619 586.16	1620 891.76	1622 197.47	1623 503.27
139 27 30	1610 566.41	1611 881.47	1613 196.64	1614 511.91	1615 827.28
139 30 00	1602 852.55	1604 177.17	1605 501.90	1606 826.74	1608 151.69
139 32 30	1595 139.07	1596 473.26	1597 807.56	1599 141.97	1600 476.48
139 35 00	1587 426.01	1588 769.76	1590 113.63	1591 457.61	1592 801.69
139 37 30	1579 713.33	1581 066.65	1582 420.09	1583 773.63	1585 127.29
139 40 00	1572 001.06	1573 363.95	1574 726.95	1576 090.07	1577 453.30
139 42 30	1564 289.20	1565 661.66	1567 034.23	1568 406.92	1569 779.72
139 45 00	1556 577.74	1557 959.76	1559 341.91	1560 724.18	1562 106.55
139 47 30	1548 866.70	1550 258.29	1551 650.00	1553 041.84	1554 433.79
139 50 00	1541 156.06	1542 557.22	1543 958.52	1545 359.93	1546 761.45
139 52 30	1533 445.85	1534 856.58	1536 267.44	1537 678.42	1539 089.52
139 55 00	1525 736.05	1527 156.35	1528 576.78	1529 997.34	1531 418.02
139 57 30	1518 026.67	1519 456.54	1520 886.55	1522 316.68	1523 746.94
140 00 00	1510 317.71	1511 757.16	1513 196.74	1514 636.45	1516 076.28
140 02 30	1502 609.18	1504 058.20	1505 507.35	1506 956.64	1508 406.05
140 05 00	1494 901.08	1496 359.67	1497 818.40	1499 277.27	1500 736.26
140 07 30	1487 193.40	1488 661.57	1490 129.88	1491 598.32	1493 066.90
140 10 00	1479 486.16	1480 963.91	1482 441.79	1483 919.81	1485 397.97
140 12 30	1471 779.36	1473 266.68	1474 754.15	1476 241.75	1477 729.48
140 15 00	1464 073.00	1465 569.89	1467 066.93	1468 564.12	1470 061.43
140 17 30	1456 367.07	1457 873.54	1459 380.17	1460 886.93	1462 393.83
140 20 00	1448 661.60	1450 177.65	1451 693.85	1453 210.19	1454 726.67
140 22 30	1440 956.56	1442 482.19	1444 007.97	1445 533.90	1447 059.97
140 25 00	1433 251.98	1434 787.18	1436 322.54	1437 858.05	1439 393.71
140 27 30	1425 547.85	1427 092.63	1428 637.58	1430 182.66	1431 727.91
140 30 00	1417 844.17	1419 398.53	1420 953.06	1422 507.73	1424 062.56
140 32 30	1410 140.94	1411 704.89	1413 269.00	1414 833.26	1416 397.67
140 35 00	1402 438.18	1404 011.71	1405 585.40	1407 159.25	1408 733.25
140 37 30	1394 735.87	1396 318.99	1397 902.27	1399 485.70	1401 069.29
140 40 00	1387 034.03	1388 626.73	1390 219.59	1391 812.61	1393 405.80
140 42 30	1379 332.67	1380 934.95	1382 537.40	1384 140.00	1385 742.77
140 45 00	1371 631.76	1373 243.63	1374 855.67	1376 467.86	1378 080.22
140 47 30	1363 931.34	1365 552.79	1367 174.41	1368 796.20	1370 418.14
140 50 00	1356 231.39	1357 862.42	1359 493.63	1361 125.00	1362 756.54
140 52 30	1348 531.90	1350 172.53	1351 813.33	1353 454.28	1355 095.42
140 55 00	1340 832.91	1342 483.12	1344 133.51	1345 784.06	1347 434.79
140 57 30	1333 134.39	1334 794.19	1336 454.17	1338 114.32	1339 774.63
141 00 00	1325 436.36	1327 105.75	1328 775.32	1330 445.06	1332 114.97
141 02 30	1317 738.82	1319 417.80	1321 096.96	1322 776.29	1324 455.80
141 05 00	1310 041.77	1311 730.34	1313 419.09	1315 108.01	1316 797.11
141 07 30	1302 345.21	1304 043.37	1305 741.71	1307 440.23	1309 138.93
141 10 00	1294 649.16	1296 356.90	1298 064.84	1299 772.95	1301 481.24
141 12 30	1286 953.59	1288 670.93	1290 388.46	1292 106.17	1293 824.05
141 15 00	1279 258.52	1280 985.46	1282 712.58	1284 439.88	1286 167.37
141 17 30	1271 563.97	1273 300.49	1275 037.21	1276 774.11	1278 511.20
141 20 00	1263 869.91	1265 616.03	1267 362.34	1269 108.84	1270 855.53
141 22 30	1256 176.37	1257 932.08	1259 687.99	1261 444.08	1263 200.37
141 25 00	1248 483.33	1250 248.64	1252 014.15	1253 779.85	1255 545.73
141 27 30	1240 790.82	1242 565.72	1244 340.82	1246 116.12	1247 891.60
141 30 00	1233 098.81	1234 883.31	1236 668.02	1238 452.91	1240 238.00

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.02	-.04	-.05	-.06	-.06

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 30 00	59 32 30	59 35 00	59 37 30	59 40 00
139 00 00	2839 864.83	2855 045.36	2870 225.91	2885 406.48	2900 587.07
139 02 30	2840 482.39	2855 662.20	2870 842.02	2886 021.87	2901 201.73
139 05 00	2841 104.80	2856 283.89	2871 462.99	2886 642.10	2901 821.24
139 07 30	2841 732.08	2856 910.43	2872 088.80	2887 267.18	2902 445.57
139 10 00	2842 364.21	2857 541.83	2872 719.46	2887 897.10	2903 074.75
139 12 30	2843 001.20	2858 178.08	2873 354.97	2888 531.86	2903 708.77
139 15 00	2843 643.05	2858 819.19	2873 995.33	2889 171.47	2904 347.62
139 17 30	2844 289.76	2859 465.15	2874 640.54	2889 815.92	2904 991.32
139 20 00	2844 941.34	2860 115.97	2875 290.60	2890 465.22	2905 639.86
139 22 30	2845 597.78	2860 771.64	2875 945.50	2891 119.37	2906 293.24
139 25 00	2846 259.07	2861 432.17	2876 605.27	2891 778.36	2906 951.46
139 27 30	2846 925.23	2862 097.56	2877 269.89	2892 442.20	2907 614.52
139 30 00	2847 596.24	2862 767.80	2877 939.35	2893 110.88	2908 282.42
139 32 30	2848 272.12	2863 442.90	2878 613.67	2893 784.42	2908 955.16
139 35 00	2848 952.87	2864 122.86	2879 292.84	2894 462.80	2909 632.75
139 37 30	2849 638.47	2864 807.68	2879 976.85	2895 146.02	2910 315.18
139 40 00	2850 328.94	2865 497.35	2880 665.73	2895 834.10	2911 002.46
139 42 30	2851 024.27	2866 191.88	2881 359.47	2896 527.03	2911 694.57
139 45 00	2851 724.48	2866 891.27	2882 058.05	2897 224.80	2912 391.54
139 47 30	2852 429.53	2867 595.52	2882 761.49	2897 927.43	2913 093.34
139 50 00	2853 139.46	2868 304.64	2883 469.78	2898 634.89	2913 799.99
139 52 30	2853 854.26	2869 018.61	2884 182.93	2899 347.22	2914 511.49
139 55 00	2854 573.91	2869 737.44	2884 900.93	2900 064.39	2915 227.83
139 57 30	2855 298.43	2870 461.13	2885 623.79	2900 786.41	2915 949.01
140 00 00	2856 027.82	2871 189.68	2886 351.51	2901 513.28	2916 675.04
140 02 30	2856 762.08	2871 923.11	2887 084.08	2902 245.02	2917 405.92
140 05 00	2857 501.20	2872 661.38	2887 821.50	2902 981.60	2918 141.64
140 07 30	2858 245.19	2873 404.52	2888 563.79	2903 723.02	2918 882.22
140 10 00	2858 994.05	2874 152.52	2889 310.94	2904 469.31	2919 627.64
140 12 30	2859 747.77	2874 905.39	2890 062.94	2905 220.44	2920 377.91
140 15 00	2860 506.37	2875 663.11	2890 819.80	2905 976.43	2921 133.02
140 17 30	2861 269.83	2876 425.70	2891 581.51	2906 737.27	2921 892.98
140 20 00	2862 038.16	2877 193.16	2892 348.09	2907 502.96	2922 657.79
140 22 30	2862 811.36	2877 965.48	2893 119.53	2908 273.51	2923 427.46
140 25 00	2863 589.44	2878 742.66	2893 895.82	2909 048.93	2924 201.97
140 27 30	2864 372.37	2879 524.71	2894 676.98	2909 829.18	2924 981.32
140 30 00	2865 160.19	2880 311.62	2895 462.99	2910 614.29	2925 765.53
140 32 30	2865 952.87	2881 103.40	2896 253.86	2911 404.26	2926 554.60
140 35 00	2866 750.42	2881 900.05	2897 049.60	2912 199.08	2927 348.51
140 37 30	2867 552.84	2882 701.56	2897 850.20	2912 998.77	2928 147.27
140 40 00	2868 360.14	2883 507.94	2898 655.66	2913 803.31	2928 950.88
140 42 30	2869 172.31	2884 319.19	2899 465.99	2914 612.70	2929 759.35
140 45 00	2869 989.35	2885 135.30	2900 281.17	2915 426.95	2930 572.66
140 47 30	2870 811.26	2885 956.29	2901 101.22	2916 246.06	2931 390.83
140 50 00	2871 638.05	2886 782.13	2901 926.13	2917 070.03	2932 213.86
140 52 30	2872 469.71	2887 612.85	2902 755.90	2917 898.86	2933 041.73
140 55 00	2873 306.24	2888 448.44	2903 590.53	2918 732.54	2933 874.46
140 57 30	2874 147.65	2889 288.89	2904 430.03	2919 571.08	2934 712.04
141 00 00	2874 993.94	2890 134.22	2905 274.40	2920 414.48	2935 554.47
141 02 30	2875 845.09	2890 984.41	2906 123.62	2921 262.74	2936 401.76
141 05 00	2876 701.13	2891 839.48	2906 977.72	2922 115.86	2937 253.91
141 07 30	2877 562.04	2892 699.41	2907 836.68	2922 973.84	2938 110.91
141 10 00	2878 427.82	2893 564.22	2908 700.50	2923 836.68	2938 972.77
141 12 30	2879 298.48	2894 433.89	2909 569.19	2924 704.38	2939 839.47
141 15 00	2880 174.02	2895 308.44	2910 442.75	2925 576.95	2940 711.04
141 17 30	2881 054.43	2896 187.86	2911 321.17	2926 454.37	2941 587.46
141 20 00	2881 939.72	2897 072.15	2912 204.46	2927 336.66	2942 468.74
141 22 30	2882 829.89	2897 961.32	2913 092.62	2928 223.80	2943 354.87
141 25 00	2883 724.94	2898 855.35	2913 985.64	2929 115.81	2944 245.87
141 27 30	2884 624.86	2899 754.26	2914 883.53	2930 012.68	2945 141.71
141 30 00	2885 529.67	2900 658.05	2915 786.29	2930 914.42	2946 042.42

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.34	-.39	-.44	-.48	-.51	-.54	-.57	-.59	-.60	-.61	-.61

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
136 02 30	2869 290.59	2884 510.55	2899 730.67	2914 951.00	2930 171.51
136 05 00	2869 562.66	2884 782.23	2900 001.96	2915 221.90	2930 442.02
136 07 30	2869 839.54	2885 058.71	2900 278.05	2915 497.60	2930 717.32
136 10 00	2870 121.22	2885 340.01	2900 558.95	2915 778.10	2930 997.42
136 12 30	2870 407.72	2885 626.11	2900 844.65	2916 063.39	2931 282.30
136 15 00	2870 699.04	2885 917.02	2901 135.16	2916 353.49	2931 571.99
136 17 30	2870 995.17	2886 212.74	2901 430.46	2916 648.38	2931 866.47
136 20 00	2871 296.11	2886 513.27	2901 730.58	2916 948.08	2932 165.74
136 22 30	2871 601.87	2886 818.61	2902 035.50	2917 252.57	2932 469.81
136 25 00	2871 912.44	2887 128.76	2902 345.22	2917 561.87	2932 778.68
136 27 30	2872 227.83	2887 443.72	2902 659.75	2917 875.97	2933 092.34
136 30 00	2872 548.03	2887 763.49	2902 979.09	2918 194.87	2933 410.80

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 40 00	59 42 30	59 45 00	59 47 30	59 50 00
134 00 00	2623 819.79	2623 887.53	2623 955.06	2624 022.35	2624 089.39
134 02 30	2616 113.31	2616 190.54	2616 267.54	2616 344.31	2616 420.85
134 05 00	2608 406.94	2608 493.64	2608 580.12	2608 666.37	2608 752.40
134 07 30	2600 700.63	2600 796.81	2600 892.77	2600 988.52	2601 084.02
134 10 00	2592 994.42	2593 100.08	2593 205.52	2593 310.74	2593 415.74
134 12 30	2585 288.29	2585 403.43	2585 518.36	2585 633.07	2585 747.55
134 15 00	2577 582.26	2577 706.88	2577 831.28	2577 955.47	2578 079.45
134 17 30	2569 876.31	2570 010.41	2570 144.30	2570 277.98	2570 411.44
134 20 00	2562 170.47	2562 314.05	2562 457.42	2562 600.59	2562 743.54
134 22 30	2554 464.72	2554 617.78	2554 770.64	2554 923.29	2555 075.73
134 25 00	2546 759.06	2546 921.61	2547 083.95	2547 246.10	2547 408.03
134 27 30	2539 053.52	2539 225.55	2539 397.38	2539 569.02	2539 740.44
134 30 00	2531 348.07	2531 529.59	2531 710.91	2531 892.03	2532 072.95
134 32 30	2523 642.74	2523 833.74	2524 024.55	2524 215.16	2524 405.57
134 35 00	2515 937.51	2516 138.00	2516 338.29	2516 538.40	2516 738.31
134 37 30	2508 232.39	2508 442.36	2508 652.15	2508 861.75	2509 071.15
134 40 00	2500 527.39	2500 746.85	2500 966.12	2501 185.21	2501 404.11
134 42 30	2492 822.50	2493 051.45	2493 280.22	2493 508.80	2493 737.20
134 45 00	2485 117.73	2485 356.17	2485 594.43	2485 832.51	2486 070.40

ALASKA-ZONE 1

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 40 00	59 42 30	59 45 00	59 47 30	59 50 00
139 00 00	1700 284.36	1701 494.58	1702 704.87	1703 915.23	1705 125.65
139 02 30	1692 604.55	1693 824.34	1695 044.20	1696 264.13	1697 484.12
139 05 00	1684 925.12	1686 154.48	1687 383.90	1688 613.40	1689 842.96
139 07 30	1677 246.06	1678 484.98	1679 723.97	1680 963.04	1682 202.17
139 10 00	1669 567.37	1670 815.86	1672 064.42	1673 313.06	1674 561.76
139 12 30	1661 889.07	1663 147.12	1664 405.25	1665 663.46	1666 921.74
139 15 00	1654 211.14	1655 478.76	1656 746.46	1658 014.24	1659 282.10
139 17 30	1646 533.59	1647 810.78	1649 088.05	1650 365.41	1651 642.83
139 20 00	1638 856.43	1640 143.19	1641 430.03	1642 716.96	1644 003.97
139 22 30	1631 179.66	1632 475.98	1633 772.40	1635 068.90	1636 365.48
139 25 00	1623 503.27	1624 809.17	1626 115.16	1627 421.23	1628 727.39
139 27 30	1615 827.28	1617 142.75	1618 458.31	1619 773.97	1621 089.70
139 30 00	1608 151.69	1609 476.73	1610 801.86	1612 127.09	1613 452.41
139 32 30	1600 476.48	1601 811.10	1603 145.81	1604 480.61	1605 815.51
139 35 00	1592 801.69	1594 145.88	1595 490.16	1596 834.55	1598 179.02
139 37 30	1585 127.29	1586 481.05	1587 834.92	1589 188.88	1590 542.93
139 40 00	1577 453.30	1578 816.64	1580 180.07	1581 543.62	1582 907.25
139 42 30	1569 779.72	1571 152.64	1572 525.65	1573 898.77	1575 271.98
139 45 00	1562 106.55	1563 489.04	1564 871.63	1566 254.33	1567 637.13
139 47 30	1554 433.79	1555 825.85	1557 218.03	1558 610.31	1560 002.69
139 50 00	1546 761.45	1548 163.09	1549 564.85	1550 966.70	1552 368.67
139 52 30	1539 089.52	1540 500.74	1541 912.07	1543 323.52	1544 735.07
139 55 00	1531 418.02	1532 838.82	1534 259.73	1535 680.75	1537 101.89
139 57 30	1523 746.94	1525 177.32	1526 607.81	1528 038.42	1529 469.14
140 00 00	1516 076.28	1517 516.24	1518 956.32	1520 396.51	1521 836.81
140 02 30	1508 406.05	1509 855.59	1511 305.25	1512 755.03	1514 204.92
140 05 00	1500 736.26	1502 195.38	1503 654.62	1505 113.99	1506 573.46
140 07 30	1493 066.90	1494 535.60	1496 004.43	1497 473.38	1498 942.44
140 10 00	1485 397.97	1486 876.25	1488 354.66	1489 833.19	1491 311.85
140 12 30	1477 729.48	1479 217.35	1480 705.35	1482 193.47	1483 681.71
140 15 00	1470 061.43	1471 558.89	1473 056.47	1474 554.18	1476 052.01
140 17 30	1462 393.83	1463 900.86	1465 408.03	1466 915.33	1468 422.75
140 20 00	1454 726.67	1456 243.30	1457 760.06	1459 276.94	1460 793.96
140 22 30	1447 059.97	1448 586.17	1450 112.52	1451 638.99	1453 165.60
140 25 00	1439 393.71	1440 929.50	1442 465.43	1444 001.51	1445 537.70
140 27 30	1431 727.91	1433 273.29	1434 818.81	1436 364.47	1437 910.26
140 30 00	1424 062.56	1425 617.53	1427 172.64	1428 727.89	1430 283.27
140 32 30	1416 397.67	1417 962.23	1419 526.93	1421 091.78	1422 656.75
140 35 00	1408 733.25	1410 307.40	1411 881.69	1413 456.13	1415 030.70
140 37 30	1401 069.29	1402 653.02	1404 236.91	1405 820.94	1407 405.11
140 40 00	1393 405.80	1394 999.12	1396 592.60	1398 186.22	1399 779.99
140 42 30	1385 742.77	1387 345.69	1388 948.76	1390 551.98	1392 155.34
140 45 00	1378 080.22	1379 692.73	1381 305.39	1382 918.21	1384 531.16
140 47 30	1370 418.14	1372 040.25	1373 662.51	1375 284.91	1376 907.47
140 50 00	1362 756.54	1364 388.24	1366 020.09	1367 652.10	1369 284.25
140 52 30	1355 095.42	1356 736.71	1358 378.16	1360 019.77	1361 661.52
140 55 00	1347 434.79	1349 085.67	1350 736.71	1352 387.92	1354 039.27
140 57 30	1339 774.63	1341 435.11	1343 095.75	1344 756.55	1346 417.51
141 00 00	1332 114.97	1333 785.05	1335 455.28	1337 125.68	1338 796.24
141 02 30	1324 455.80	1326 135.47	1327 815.30	1329 495.30	1331 175.46
141 05 00	1316 797.11	1318 486.39	1320 175.82	1321 865.42	1323 555.18
141 07 30	1309 138.93	1310 837.79	1312 536.83	1314 236.03	1315 935.39
141 10 00	1301 481.24	1303 189.71	1304 898.34	1306 607.14	1308 316.11
141 12 30	1293 824.05	1295 542.12	1297 260.35	1298 978.76	1300 697.33
141 15 00	1286 167.37	1287 895.04	1289 622.87	1291 350.88	1293 079.05
141 17 30	1278 511.20	1280 248.46	1281 985.90	1283 723.50	[illegible]

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 40 00	59 42 30	59 45 00	59 47 30	59 50 00
139 00 00	2900 587.07	2915 767.72	2930 948.36	2946 129.06	2961 309.80
139 02 30	2901 201.73	2916 381.64	2931 561.56	2946 741.52	2961 921.53
139 05 00	2901 821.24	2917 000.41	2932 179.59	2947 358.82	2962 538.07
139 07 30	2902 445.57	2917 624.01	2932 802.44	2947 980.92	2963 159.44
139 10 00	2903 074.75	2918 252.44	2933 430.13	2948 607.86	2963 785.62
139 12 30	2903 708.77	2918 885.70	2934 062.65	2949 239.62	2964 416.63
139 15 00	2904 347.62	2919 523.81	2934 699.99	2949 876.21	2965 052.45
139 17 30	2904 991.32	2920 166.74	2935 342.16	2950 517.63	2965 693.10
139 20 00	2905 639.86	2920 814.52	2935 989.17	2951 163.86	2966 338.56
139 22 30	2906 293.24	2921 467.13	2936 641.01	2951 814.92	2966 988.85
139 25 00	2906 951.46	2922 124.57	2937 297.68	2952 470.81	2967 643.95
139 27 30	2907 614.52	2922 786.85	2937 959.17	2953 131.52	2968 303.89
139 30 00	2908 282.42	2923 453.97	2938 625.51	2953 797.06	2968 968.63
139 32 30	2908 955.16	2924 125.93	2939 296.67	2954 467.43	2969 638.20
139 35 00	2909 632.75	2924 802.72	2939 972.67	2955 142.63	2970 312.59
139 37 30	2910 315.18	2925 484.35	2940 653.49	2955 822.65	2970 991.81
139 40 00	2911 002.46	2926 170.82	2941 339.16	2956 507.51	2971 675.85
139 42 30	2911 694.57	2926 862.13	2942 029.64	2957 197.19	2972 364.72
139 45 00	2912 391.54	2927 558.28	2942 724.97	2957 891.70	2973 058.41
139 47 30	2913 093.34	2928 259.26	2943 425.14	2958 591.03	2973 756.92
139 50 00	2913 799.99	2928 965.08	2944 130.14	2959 295.20	2974 460.26
139 52 30	2914 511.49	2929 675.75	2944 839.97	2960 004.20	2975 168.42
139 55 00	2915 227.83	2930 391.26	2945 554.64	2960 718.03	2975 881.40
139 57 30	2915 949.01	2931 111.60	2946 274.14	2961 436.69	2976 599.21
140 00 00	2916 675.04	2931 836.79	2946 998.48	2962 160.17	2977 321.85
140 02 30	2917 405.92	2932 566.82	2947 727.66	2962 888.50	2978 049.31
140 05 00	2918 141.64	2933 301.69	2948 461.67	2963 621.64	2978 781.60
140 07 30	2918 882.22	2934 041.39	2949 200.51	2964 359.63	2979 518.72
140 10 00	2919 627.64	2934 785.95	2949 944.21	2965 102.45	2980 260.66
140 12 30	2920 377.91	2935 535.35	2950 692.73	2965 850.10	2981 007.43
140 15 00	2921 133.02	2936 289.58	2951 446.09	2966 602.57	2981 759.03
140 17 30	2921 892.98	2937 048.67	2952 204.29	2967 359.89	2982 515.46
140 20 00	2922 657.79	2937 812.60	2952 967.32	2968 122.04	2983 276.70
140 22 30	2923 427.46	2938 581.36	2953 735.20	2968 889.02	2984 042.79
140 25 00	2924 201.97	2939 354.98	2954 507.92	2969 660.83	2984 813.70
140 27 30	2924 981.32	2940 133.43	2955 285.47	2970 437.48	2985 589.44
140 30 00	2925 765.53	2940 916.74	2956 067.87	2971 218.97	2986 370.01
140 32 30	2926 554.60	2941 704.89	2956 855.10	2972 005.28	2987 155.41
140 35 00	2927 348.51	2942 497.88	2957 647.18	2972 796.44	2987 945.64
140 37 30	2928 147.27	2943 295.72	2958 444.09	2973 592.43	2988 740.70
140 40 00	2928 950.88	2944 098.41	2959 245.85	2974 393.26	2989 540.60
140 42 30	2929 759.35	2944 905.94	2960 052.45	2975 198.92	2990 345.32
140 45 00	2930 572.66	2945 718.32	2960 863.89	2976 009.42	2991 154.87
140 47 30	2931 390.83	2946 535.55	2961 680.17	2976 824.75	2991 969.26
140 50 00	2932 213.86	2947 357.62	2962 501.30	2977 644.92	2992 788.47
140 52 30	2933 041.73	2948 184.55	2963 327.26	2978 469.93	2993 612.52
140 55 00	2933 874.46	2949 016.32	2964 158.07	2979 299.78	2994 441.41
140 57 30	2934 712.04	2949 852.94	2964 993.73	2980 134.47	2995 275.12
141 00 00	2935 554.47	2950 694.40	2965 834.22	2980 973.99	2996 113.67
141 02 30	2936 401.76	2951 540.72	2966 679.56	2981 818.35	2996 957.05
141 05 00	2937 253.91	2952 391.89	2967 529.75	2982 667.55	2997 805.27
141 07 30	2938 110.91	2953 247.90	2968 384.78	2983 521.60	2998 658.32
141 10 00	2938 972.77	2954 108.77	2969 244.65	2984 380.47	2999 516.21
141 12 30	2939 839.47	2954 974.48	2970 109.37	2985 244.20	3000 378.92
141 15 00	2940 711.04	2955 845.05	2970 978.94	2986 112.75	3001 246.48
141 17 30	2941 587.46	2956 720.47	2971 853.35	2986 986.16	3002 118.87
141 20 00	2942 468.74	2957 600.74	2972 732.60	2987 864.40	3002 996.09
141 22 30	2943 354.87	2958 485.85	2973 616.71	2988 747.49	3003 878.16
141 25 00	2944 245.87	2959 375.83	2974 505.66	2989 635.41	3004 765.05
141 27 30	2945 141.71	2960 270.65	2975 399.46	2990 528.18	3005 656.79
141 30 00	2946 042.42	2961 170.33	2976 298.10	2991 425.79	3006 553.36

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.34	-.39	-.44	-.48	-.51	-.54	-.57	-.59	-.60	-.61	-.61

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 50 00	59 52 30	59 55 00	59 57 30	60 00 00
134 00 00	2624 089.39	2624 156.21	2624 222.78	2624 289.10	2624 355.17
134 02 30	2616 420.85	2616 497.15	2616 573.21	2616 649.03	2616 724.60
134 05 00	2608 752.40	2608 838.19	2608 923.74	2609 009.05	2609 094.11
134 07 30	2601 084.02	2601 179.30	2601 274.34	2601 369.15	2601 463.71
134 10 00	2593 415.74	2593 520.50	2593 625.04	2593 729.34	2593 833.40
134 12 30	2585 747.55	2585 861.81	2585 975.84	2586 089.63	2586 203.19
134 15 00	2578 079.45	2578 203.20	2578 326.72	2578 450.01	2578 573.07
134 17 30	2570 411.44	2570 544.68	2570 677.70	2570 810.49	2570 943.05
134 20 00	2562 743.54	2562 886.28	2563 028.79	2563 171.08	2563 313.14
134 22 30	2555 075.73	2555 227.96	2555 379.97	2555 531.76	2555 683.33
134 25 00	2547 408.03	2547 569.75	2547 731.26	2547 892.55	2548 053.61
134 27 30	2539 740.44	2539 911.66	2540 082.66	2540 253.45	2540 424.02
134 30 00	2532 072.95	2532 253.66	2532 434.16	2532 614.46	2532 794.53
134 32 30	2524 405.57	2524 595.78	2524 785.78	2524 975.57	2525 165.15
134 35 00	2516 738.31	2516 938.01	2517 137.51	2517 336.81	2517 535.89
134 37 30	2509 071.15	2509 280.35	2509 489.36	2509 698.16	2509 906.75
134 40 00	2501 404.11	2501 622.81	2501 841.32	2502 059.62	2502 277.72
134 42 30	2493 737.20	2493 965.40	2494 193.41	2494 421.22	2494 648.82
134 45 00	2486 070.40	2486 308.10	2486 545.61	2486 782.93	2487 020.04
134 47 30	2478 403.72	2478 650.93	2478 897.94	2479 144.76	2479 391.39
134 50 00	2470 737.18	2470 993.89	2471 250.41	2471 506.73	2471 762.86
134 52 30	2463 070.76	2463 336.97	2463 602.99	2463 868.83	2464 134.47
134 55 00	2455 404.48	2455 680.19	2455 955.72	2456 231.06	2456 506.21
134 57 30	2447 738.32	2448 023.54	2448 308.57	2448 593.42	2448 878.09
135 00 00	2440 072.30	2440 367.02	2440 661.56	2440 955.93	2441 250.10
135 02 30	2432 406.42	2432 710.65	2433 014.70	2433 318.57	2433 622.26
135 05 00	2424 740.68	2425 054.41	2425 367.97	2425 681.35	2425 994.55
135 07 30	2417 075.08	2417 398.31	2417 721.39	2418 044.28	2418 367.00
135 10 00	2409 409.63	2409 742.37	2410 074.95	2410 407.36	2410 739.59
135 12 30	2401 744.32	2402 086.57	2402 428.66	2402 770.58	2403 112.33
135 15 00	2394 079.16	2394 430.92	2394 782.52	2395 133.95	2395 485.23
135 17 30	2386 414.15	2386 775.42	2387 136.54	2387 497.49	2387 858.27
135 20 00	2378 749.30	2379 120.08	2379 490.70	2379 861.17	2380 231.47
135 22 30	2371 084.60	2371 464.89	2371 845.03	2372 225.02	2372 604.84
135 25 00	2363 420.07	2363 809.87	2364 199.52	2364 589.02	2364 978.37
135 27 30	2355 755.69	2356 155.01	2356 554.17	2356 953.19	2357 352.05
135 30 00	2348 091.48	2348 500.30	2348 908.99	2349 317.52	2349 725.91
135 32 30	2340 427.43	2340 845.77	2341 263.97	2341 682.03	2342 099.93
135 35 00	2332 763.54	2333 191.40	2333 619.12	8334 046.69	2334 474.13
135 37 30	2325 099.83	2325 537.21	2325 974.45	2326 411.54	2326 848.50
135 40 00	2317 436.30	2317 883.19	2318 329.95	2318 776.57	2319 223.04
135 42 30	2309 772.94	2310 229.35	2310 685.62	2311 141.76	2311 597.76
135 45 00	2302 109.75	2302 575.68	2303 041.47	2303 507.14	2303 972.66
135 47 30	2294 446.75	2294 922.19	2295 397.51	2295 872.69	2296 347.75
135 50 00	2286 783.93	2287 268.89	2287 753.73	2288 238.44	2288 723.02
135 52 30	2279 121.29	2279 615.77	2280 110.13	2280 604.37	2281 098.47
135 55 00	2271 458.84	2271 962.84	2272 466.72	2272 970.49	2273 474.12
135 57 30	2263 796.58	2264 310.10	2264 823.51	2265 336.80	2265 849.96
136 00 00	2256 134.51	2256 657.56	2257 180.49	2257 703.30	2258 226.00
136 02 30	2248 472.64	2249 005.21	2249 537.66	2250 070.01	2250 602.23
136 05 00	2240 810.96	2241 353.05	2241 895.03	2242 436.90	2242 978.66
136 07 30	2233 149.48	2233 701.09	2234 252.60	2234 804.00	2235 355.29
136 10 00	2225 488.21	2226 049.34	2226 610.38	2227 171.31	2227 732.13
136 12 30	2217 827.13	2218 397.79	2218 968.36	2219 538.82	2220 109.18
136 15 00	2210 166.26	2210 746.45	2211 326.54	2211 906.53	2212 486.42
136 17 30	2202 505.60	2203 095.32	2203 684.94	2204 274.47	2204 863.89
136 20 00	2194 845.15	2195 444.40	2196 043.55	2196 642.60	2197 241.56
136 22 30	2187 184.91	2187 793.69	2188 402.37	2189 010.96	2189 619.45
136 25 00	2179 524.89	2180 143.20	2180 761.42	2181 379.54	2181 997.57
136 27 30	2171 865.09	2172 492.93	2173 120.67	2173 748.33	2174 375.90
136 30 00	2164 205.51	2164 842.87	2165 480.15	2166 117.34	2166 754.45

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	+.01	+.01	+.02	+.02	+.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 50 00	59 52 30	59 55 00	59 57 30	60 00 00
134 00 00	2922 780.89	2938 015.17	2953 249.72	2968 484.56	2983 719.70
134 02 30	2922 816.97	2938 051.08	2953 285.46	2968 520.14	2983 755.11
134 05 00	2922 857.83	2938 091.77	2953 325.98	2968 560.49	2983 795.28
134 07 30	2922 903.47	2938 137.22	2953 371.26	2968 605.59	2983 840.20
134 10 00	2922 953.87	2938 187.45	2953 421.31	2968 655.45	2983 889.87
134 12 30	2923 009.06	2938 242.45	2953 476.12	2968 710.08	2983 944.31
134 15 00	2923 069.02	2938 302.22	2953 535.70	2968 769.46	2984 003.50
134 17 30	2923 133.75	2938 366.77	2953 600.05	2968 833.62	2984 067.46
134 20 00	2923 203.27	2938 436.09	2953 669.17	2968 902.53	2984 136.17
134 22 30	2923 277.56	2938 510.18	2953 743.06	2968 976.21	2984 209.65
134 25 00	2923 356.63	2938 589.05	2953 821.71	2969 054.66	2984 287.88
134 27 30	2923 440.49	2938 672.68	2953 905.14	2969 137.87	2984 370.87
134 30 00	2923 529.12	2938 761.10	2953 993.33	2969 225.85	2984 458.63
134 32 30	2923 622.53	2938 854.28	2954 086.30	2969 318.58	2984 551.14
134 35 00	2923 720.72	2938 952.25	2954 184.04	2969 416.09	2984 648.42
134 37 30	2923 823.69	2939 054.99	2954 286.54	2969 518.37	2984 750.45
134 40 00	2923 931.44	2939 162.50	2954 393.82	2969 625.41	2984 857.26
134 42 30	2924 043.97	2939 274.79	2954 505.87	2969 737.21	2984 968.82
134 45 00	2924 161.28	2939 391.87	2954 622.69	2969 853.79	2985 085.14
134 47 30	2924 283.38	2939 513.71	2954 744.29	2969 975.13	2985 206.23
134 50 00	2924 410.25	2939 640.33	2954 870.66	2970 101.24	2985 332.09
134 52 30	2924 541.91	2939 771.73	2955 001.80	2970 232.12	2985 462.70
134 55 00	2924 678.35	2939 907.92	2955 137.72	2970 367.77	2985 598.08
134 57 30	2924 819.58	2940 048.87	2955 278.40	2970 508.19	2985 738.22
135 00 00	2924 965.59	2940 194.61	2955 423.86	2970 653.37	2985 883.14
135 02 30	2925 116.37	2940 345.12	2955 574.10	2970 803.33	2986 032.81
135 05 00	2925 271.95	2940 500.42	2955 729.11	2970 958.06	2986 187.25
135 07 30	2925 432.32	2940 660.49	2955 888.90	2971 117.56	2986 346.46
135 10 00	2925 597.46	2940 825.35	2956 053.46	2971 281.82	2986 510.43
135 12 30	2925 767.39	2940 994.98	2956 222.80	2971 450.86	2986 679.17
135 15 00	2925 942.11	2941 169.40	2956 396.92	2971 624.68	2986 852.68
135 17 30	2926 121.61	2941 348.60	2956 575.81	2971 803.27	2987 030.95
135 20 00	2926 305.90	2941 532.58	2956 759.48	2971 986.62	2987 213.99
135 22 30	2926 494.98	2941 721.34	2956 947.93	2972 174.75	2987 401.80
135 25 00	2926 688.84	2941 914.89	2957 141.15	2972 367.65	2987 594.39
135 27 30	2926 887.49	2942 113.21	2957 339.15	2972 565.32	2987 791.73
135 30 00	2927 090.93	2942 316.32	2957 541.94	2972 767.78	2987 993.85
135 32 30	2927 299.16	2942 524.22	2957 749.49	2972 975.00	2988 200.73
135 35 00	2927 512.17	2942 736.90	2957 961.84	2973 187.00	2988 412.39
135 37 30	2927 729.98	2942 954.36	2958 178.96	2973 403.77	2988 628.81
135 40 00	2927 952.58	2943 176.61	2958 400.85	2973 625.33	2988 850.01
135 42 30	2928 179.96	2943 403.64	2958 627.53	2973 851.65	2989 075.98
135 45 00	2928 412.13	2943 635.46	2958 859.00	2974 082.75	2989 306.72
135 47 30	2928 649.09	2943 872.07	2959 095.24	2974 318.63	2989 542.23
135 50 00	2928 890.85	2944 113.46	2959 336.26	2974 559.28	2989 782.51
135 52 30	2929 137.40	2944 359.63	2959 582.06	2974 804.71	2990 027.57
135 55 00	2929 388.74	2944 610.60	2959 832.65	2975 054.92	2990 277.40
135 57 30	2929 644.87	2944 866.35	2960 088.02	2975 309.91	2990 532.00
136 00 00	2929 905.79	2945 126.89	2960 348.17	2975 569.67	2990 791.37
136 02 30	2930 171.51	2945 392.21	2960 613.11	2975 834.21	2991 055.52
136 05 00	2930 442.02	2945 662.33	2960 882.83	2976 103.53	2991 324.44
136 07 30	2930 717.32	2945 937.23	2961 157.33	2976 377.64	2991 598.14
136 10 00	2930 997.42	2946 216.93	2961 436.62	2976 656.52	2991 876.61
136 12 30	2931 282.30	2946 501.41	2961 720.69	2976 940.17	2992 159.86
136 15 00	2931 571.99	2946 790.68	2962 009.55	2977 228.62	2992 447.88
136 17 30	2931 866.47	2947 084.74	2962 303.19	2977 521.84	2992 740.68
136 20 00	2932 165.74	2947 383.59	2962 601.62	2977 819.84	2993 038.25
136 22 30	2932 469.81	2947 687.23	2962 904.83	2978 122.62	2993 340.60
136 25 00	2932 778.68	2947 995.67	2963 212.83	2978 430.19	2993 647.73
136 27 30	2933 092.34	2948 308.90	2963 525.62	2978 742.54	2993 959.64
136 30 00	2933 410.80	2948 626.92	2963 843.20	2979 059.67	2994 276.32

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.33	-.38	-.43	-.47	-.50	-.53	-.56	-.58	-.59	-.60	-.60

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.03	-.03

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 50 00	59 52 30	59 55 00	59 57 30	60 00 00
136 30 00	2164 205.51	2164 842.87	2165 480.15	2166 117.34	2166 754.45
136 32 30	2156 546.15	2157 193.05	2157 839.86	2158 486.59	2159 133.23
136 35 00	2148 887.01	2149 543.44	2150 199.79	2150 856.06	2151 512.24
136 37 30	2141 228.11	2141 894.07	2142 559.95	2143 225.76	2143 891.48
136 40 00	2133 569.43	2134 244.93	2134 920.35	2135 595.69	2136 270.96
136 42 30	2125 910.99	2126 596.02	2127 280.98	2127 965.86	2128 650.66
136 45 00	2118 252.78	2118 947.34	2119 641.84	2120 336.26	2121 030.60
136 47 30	2110 594.81	2111 298.91	2112 002.94	2112 706.90	2113 410.80
136 50 00	2102 937.08	2103 650.71	2104 364.29	2105 077.79	2105 791.22
136 52 30	2095 279.59	2096 002.76	2096 725.87	2097 448.92	2098 171.90
136 55 00	2087 622.34	2088 355.05	2089 087.70	2089 820.29	2090 552.81
136 57 30	2079 965.34	2080 707.59	2081 449.78	2082 191.91	2082 933.98
137 00 00	2072 308.59	2073 060.38	2073 812.11	2074 563.79	2075 315.40
137 02 30	2064 652.10	2065 413.42	2066 174.70	2066 935.92	2067 697.08
137 05 00	2056 995.85	2057 766.72	2058 537.53	2059 308.30	2060 079.01
137 07 30	2049 339.87	2050 120.28	2050 900.64	2051 680.95	2052 461.21
137 10 00	2041 684.14	2042 474.09	2043 263.99	2044 053.85	2044 843.66
137 12 30	2034 028.67	2034 828.16	2035 627.61	2036 427.02	2037 226.38
137 15 00	2026 373.47	2027 182.50	2027 991.50	2028 800.46	2029 609.36
137 17 30	2018 718.53	2019 537.11	2020 355.65	2021 174.16	2021 992.62
137 20 00	2011 063.86	2011 891.99	2012 720.08	2013 548.13	2014 376.14
137 22 30	2003 409.47	2004 247.14	2005 084.78	2005 922.38	2006 759.94
137 25 00	1995 755.34	1996 602.56	1997 449.75	1998 296.90	1999 144.01
137 27 30	1988 101.50	1988 958.26	1989 815.00	1990 671.70	1991 528.37
137 30 00	1980 447.93	1981 314.24	1982 180.53	1983 046.79	1983 913.01
137 32 30	1972 794.64	1973 670.50	1974 546.33	1975 422.14	1976 297.93
137 35 00	1965 141.64	1966 027.04	1966 912.43	1967 797.80	1968 683.13
137 37 30	1957 488.92	1958 383.88	1959 278.81	1960 173.73	1961 068.62
137 40 00	1949 836.49	1950 740.99	1951 645.49	1952 549.96	1953 454.41
137 42 30	1942 184.35	1943 098.41	1944 012.45	1944 926.48	1945 840.48
137 45 00	1934 532.51	1935 456.11	1936 379.72	1937 303.30	1938 226.87
137 47 30	1926 880.95	1927 814.11	1928 747.27	1929 680.41	1930 613.54
137 50 00	1919 229.69	1920 172.41	1921 115.12	1922 057.82	1923 000.50
137 52 30	1911 578.75	1912 531.01	1913 483.28	1914 435.54	1915 387.79
137 55 00	1903 928.10	1904 889.92	1905 851.74	1906 813.56	1907 775.37
137 57 30	1896 277.75	1897 249.13	1898 220.50	1899 191.89	1900 163.26
138 00 00	1888 627.72	1889 608.65	1890 589.59	1891 570.52	1892 551.46
138 02 30	1880 977.99	1881 968.48	1882 958.98	1883 949.48	1884 939.97
138 05 00	1873 328.58	1874 328.62	1875 328.68	1876 328.74	1877 328.80
138 07 30	1865 679.48	1866 689.08	1867 698.70	1868 708.33	1869 717.95
138 10 00	1858 030.70	1859 049.86	1860 069.04	1861 088.23	1862 107.42
138 12 30	1850 382.24	1851 410.96	1852 439.70	1853 468.45	1854 497.20
138 15 00	1842 734.10	1843 772.39	1844 810.69	1845 849.00	1846 887.32
138 17 30	1835 086.29	1836 134.14	1837 182.00	1838 229.88	1839 277.77
138 20 00	1827 438.81	1828 496.21	1829 553.64	1830 611.08	1831 668.54
138 22 30	1819 791.65	1820 858.62	1821 925.61	1822 992.62	1824 059.65
138 25 00	1812 144.83	1813 221.36	1814 297.92	1815 374.50	1816 451.09
138 27 30	1804 498.34	1805 584.44	1806 670.56	1807 756.71	1808 842.88
138 30 00	1796 852.19	1797 947.85	1799 043.54	1800 139.26	1801 234.99
138 32 30	1789 206.39	1790 311.61	1791 416.87	1792 522.15	1793 627.46
138 35 00	1781 560.92	1782 675.71	1783 790.53	1784 905.39	1786 020.27
138 37 30	1773 915.80	1775 040.16	1776 164.55	1777 288.97	1778 413.43
138 40 00	1766 271.02	1767 404.95	1768 538.91	1769 672.91	1770 806.93
138 42 30	1758 626.60	1759 770.09	1760 913.62	1762 057.19	1763 200.79
138 45 00	1750 982.53	1752 135.59	1753 288.69	1754 441.83	1755 595.01
138 47 30	1743 338.81	1744 501.44	1745 664.12	1746 826.83	1747 989.58
138 50 00	1735 695.47	1736 867.66	1738 039.90	1739 212.19	1740 384.51
138 52 30	1728 052.46	1729 234.23	1730 416.04	1731 597.90	1732 779.81
138 55 00	1720 409.83	1721 601.16	1722 792.55	1723 983.99	1725 175.47
138 57 30	1712 767.56	1713 968.47	1715 169.42	1716 370.44	1717 571.50
139 00 00	1705 125.65	1706 336.13	1707 546.67	1708 757.26	1709 967.90

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.04	-.04

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 50 00	59 52 30	59 55 00	59 57 30	60 00 00
136 30 00	2933 410.80	2948 626.92	2963 843.20	2979 059.67	2994 276.32
136 32 30	2933 734.06	2948 949.73	2964 165.56	2979 381.58	2994 597.78
136 35 00	2934 062.11	2949 277.33	2964 492.71	2979 708.28	2994 924.02
136 37 30	2934 394.96	2949 609.72	2964 824.65	2980 039.75	2995 255.03
136 40 00	2934 732.61	2949 946.91	2965 161.37	2980 376.01	2995 590.83
136 42 30	2935 075.06	2950 288.90	2965 502.89	2980 717.06	2995 931.41
136 45 00	2935 422.30	2950 635.67	2965 849.20	2981 062.89	2996 276.76
136 47 30	2935 774.35	2950 987.24	2966 200.29	2981 413.51	2996 626.90
136 50 00	2936 131.20	2951 343.61	2966 556.18	2981 768.91	2996 981.82
136 52 30	2936 492.85	2951 704.77	2966 916.85	2982 129.10	2997 341.51
136 55 00	2936 859.29	2952 070.73	2967 282.31	2982 494.07	2997 705.99
136 57 30	2937 230.54	2952 441.48	2967 652.57	2982 863.83	2998 075.25
137 00 00	2937 606.59	2952 817.03	2968 027.62	2983 238.38	2998 449.29
137 02 30	2937 987.43	2953 197.38	2968 407.47	2983 617.71	2998 828.11
137 05 00	2938 373.08	2953 582.52	2968 792.09	2984 001.83	2999 211.72
137 07 30	2938 763.54	2953 972.46	2969 181.52	2984 390.73	2999 600.10
137 10 00	2939 158.79	2954 367.20	2969 575.73	2984 784.43	2999 993.27
137 12 30	2939 558.85	2954 766.73	2969 974.75	2985 182.91	3000 391.23
137 15 00	2939 963.71	2955 171.06	2970 378.55	2985 586.18	3000 793.97
137 17 30	2940 373.37	2955 580.19	2970 787.15	2985 994.25	3001 201.49
137 20 00	2940 787.85	2955 994.13	2971 200.54	2986 407.10	3001 613.80
137 22 30	2941 207.12	2956 412.86	2971 618.73	2986 824.74	3002 030.89
137 25 00	2941 631.19	2956 836.39	2972 041.71	2987 247.17	3002 452.76
137 27 30	2942 060.08	2957 264.72	2972 469.48	2987 674.39	3002 879.43
137 30 00	2942 493.76	2957 697.85	2972 902.05	2988 106.40	3003 310.88
137 32 30	2942 932.26	2958 135.78	2973 339.43	2988 543.20	3003 747.11
137 35 00	2943 375.55	2958 578.52	2973 781.59	2988 984.80	3004 188.13
137 37 30	2943 823.66	2959 026.05	2974 228.55	2989 431.18	3004 633.94
137 40 00	2944 276.58	2959 478.39	2974 680.30	2989 882.36	3005 084.54
137 42 30	2944 734.29	2959 935.52	2975 136.86	2990 338.33	3005 539.92
137 45 00	2945 196.82	2960 397.47	2975 598.22	2990 799.09	3006 000.09
137 47 30	2945 664.15	2960 864.21	2976 064.36	2991 264.65	3006 465.05
137 50 00	2946 136.29	2961 335.75	2976 535.32	2991 735.00	3006 934.80
137 52 30	2946 613.25	2961 812.11	2977 011.06	2992 210.14	3007 409.33
137 55 00	2947 095.01	2962 293.26	2977 491.61	2992 690.08	3007 888.66
137 57 30	2947 581.58	2962 779.22	2977 976.96	2993 174.81	3008 372.78
138 00 00	2948 072.96	2963 269.98	2978 467.10	2993 664.33	3008 861.68
138 02 30	2948 569.14	2963 765.55	2978 962.05	2994 158.66	3009 355.37
138 05 00	2949 070.14	2964 265.92	2979 461.80	2994 657.78	3009 853.86
138 07 30	2949 575.95	2964 771.10	2979 966.34	2995 161.69	3010 357.14
138 10 00	2950 086.58	2965 281.09	2980 475.69	2995 670.40	3010 865.21
138 12 30	2950 602.00	2965 795.88	2980 989.85	2996 183.91	3011 378.07
138 15 00	2951 122.24	2966 315.48	2981 508.79	2996 702.21	3011 895.72
138 17 30	2951 647.30	2966 839.88	2982 032.54	2997 225.30	3012 418.16
138 20 00	2952 177.17	2967 369.10	2982 561.10	2997 753.20	3012 945.40
138 22 30	2952 711.85	2967 903.12	2983 094.46	2998 285.90	3013 477.43
138 25 00	2953 251.34	2968 441.94	2983 632.63	2998 823.39	3014 014.25
138 27 30	2953 795.65	2968 985.58	2984 175.59	2999 365.68	3014 555.86
138 30 00	2954 344.77	2969 534.03	2984 723.36	2999 912.78	3015 102.27
138 32 30	2954 898.70	2970 087.28	2985 275.94	3000 464.67	3015 653.47
138 35 00	2955 457.45	2970 645.35	2985 833.31	3001 021.36	3016 209.48
138 37 30	2956 021.01	2971 208.22	2986 395.49	3001 582.84	3016 770.27
138 40 00	2956 589.39	2971 775.90	2986 962.48	3002 149.13	3017 335.86
138 42 30	2957 162.59	2972 348.40	2987 534.27	3002 720.22	3017 906.24
138 45 00	2957 740.60	2972 925.71	2988 110.87	3003 296.11	3018 481.42
138 47 30	2958 323.42	2973 507.82	2988 692.28	3003 876.80	3019 061.40
138 50 00	2958 911.06	2974 094.75	2989 278.49	3004 462.30	3019 646.17
138 52 30	2959 503.52	2974 686.48	2989 869.51	3005 052.60	3020 235.74
138 55 00	2960 100.79	2975 283.04	2990 465.33	3005 647.69	3020 830.11
138 57 30	2960 702.88	2975 884.40	2991 065.97	3006 247.59	3021 429.27
139 00 00	2961 309.80	2976 490.58	2991 671.41	3006 852.29	3022 033.23

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.33	-.38	-.43	-.47	-.50	-.53	-.56	-.58	-.59	-.60	-.60

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	59 50 00	59 52 30	59 55 00	59 57 30	60 00 00
139 00 00	1705 125.65	1706 336.13	1707 546.67	1708 757.26	1709 967.90
139 02 30	1697 484.12	1698 704.17	1699 924.28	1701 144.45	1702 364.66
139 05 00	1689 842.96	1691 072.59	1692 302.27	1693 532.02	1694 761.81
139 07 30	1682 202.17	1683 441.37	1684 680.64	1685 919.96	1687 159.34
139 10 00	1674 561.76	1675 810.54	1677 059.38	1678 308.28	1679 557.24
139 12 30	1666 921.74	1668 180.09	1669 438.51	1670 696.99	1671 955.53
139 15 00	1659 282.10	1660 550.03	1661 818.02	1663 086.08	1664 354.20
139 17 30	1651 642.83	1652 920.34	1654 197.92	1655 475.55	1656 753.25
139 20 00	1644 003.97	1645 291.05	1646 578.21	1647 865.43	1649 152.72
139 22 30	1636 365.48	1637 662.14	1638 958.88	1640 255.68	1641 552.55
139 25 00	1628 727.39	1630 033.63	1631 339.95	1632 646.33	1633 952.80
139 27 30	1621 089.70	1622 405.52	1623 721.41	1625 037.39	1626 353.43
139 30 00	1613 452.41	1614 777.80	1616 103.28	1617 428.84	1618 754.47
139 32 30	1605 815.51	1607 150.49	1608 485.55	1609 820.69	1611 155.90
139 35 00	1598 179.02	1599 523.58	1600 868.23	1602 212.95	1603 557.76
139 37 30	1590 542.93	1591 897.08	1593 251.30	1594 605.61	1595 960.01
139 40 00	1582 907.25	1584 270.97	1585 634.78	1586 998.69	1588 362.67
139 42 30	1575 271.98	1576 645.29	1578 018.69	1579 392.18	1580 765.75
139 45 00	1567 637.13	1569 020.02	1570 403.01	1571 786.08	1573 169.24
139 47 30	1560 002.69	1561 395.16	1562 787.74	1564 180.40	1565 573.15
139 50 00	1552 368.67	1553 770.73	1555 172.89	1556 575.14	1557 977.48
139 52 30	1544 735.07	1546 146.71	1547 558.46	1548 970.30	1550 382.23
139 55 00	1537 101.89	1538 523.12	1539 944.46	1541 365.89	1542 787.41
139 57 30	1529 469.14	1530 899.96	1532 330.88	1533 761.91	1535 193.03
140 00 00	1521 836.81	1523 277.22	1524 717.74	1526 158.35	1527 599.06
140 02 30	1514 204.92	1515 654.91	1517 105.02	1518 555.23	1520 005.53
140 05 00	1506 573.46	1508 033.05	1509 492.75	1510 952.55	1512 412.45
140 07 30	1498 942.44	1500 411.61	1501 880.90	1503 350.30	1504 819.79
140 10 00	1491 311.85	1492 790.62	1494 269.50	1495 748.48	1497 227.58
140 12 30	1483 681.71	1485 170.07	1486 658.54	1488 147.13	1489 635.82
140 15 00	1476 052.01	1477 549.96	1479 048.02	1480 546.20	1482 044.49
140 17 30	1468 422.75	1469 930.30	1471 437.96	1472 945.73	1474 453.62
140 20 00	1460 793.96	1462 311.09	1463 828.35	1465 345.72	1466 863.20
140 22 30	1453 165.60	1454 692.33	1456 219.18	1457 746.15	1459 273.24
140 25 00	1445 537.70	1447 074.02	1448 610.47	1450 147.04	1451 683.72
140 27 30	1437 910.26	1439 456.18	1441 002.22	1442 548.39	1444 094.67
140 30 00	1430 283.27	1431 838.79	1433 394.43	1434 950.19	1436 506.08
140 32 30	1422 656.75	1424 221.86	1425 787.10	1427 352.47	1428 917.95
140 35 00	1415 030.70	1416 605.41	1418 180.24	1419 755.20	1421 330.29
140 37 30	1407 405.11	1408 989.41	1410 573.85	1412 158.41	1413 743.10
140 40 00	1399 779.99	1401 373.88	1402 967.93	1404 562.09	1406 156.38
140 42 30	1392 155.34	1393 758.84	1395 362.48	1396 966.25	1398 570.15
140 45 00	1384 531.16	1386 144.27	1387 757.50	1389 370.87	1390 984.38
140 47 30	1376 907.47	1378 530.17	1380 153.01	1381 775.98	1383 399.09
140 50 00	1369 284.25	1370 916.55	1372 548.99	1374 181.57	1375 814.28
140 52 30	1361 661.52	1363 303.42	1364 945.46	1366 587.64	1368 229.96
140 55 00	1354 039.27	1355 690.77	1357 342.42	1358 994.21	1360 646.13
140 57 30	1346 417.51	1348 078.61	1349 739.86	1351 401.26	1353 062.79
141 00 00	1338 796.24	1340 466.94	1342 137.80	1343 808.80	1345 479.94
141 02 30	1331 175.46	1332 855.77	1334 536.23	1336 216.84	1337 897.59
141 05 00	1323 555.18	1325 245.10	1326 935.16	1328 625.37	1330 315.74
141 07 30	1315 935.39	1317 634.91	1319 334.58	1321 034.40	1322 734.38
141 10 00	1308 316.11	1310 025.23	1311 734.51	1313 443.94	1315 153.52
141 12 30	1300 697.33	1302 416.06	1304 134.95	1305 853.99	1307 573.18
141 15 00	1293 079.05	1294 807.39	1296 535.88	1298 264.53	1299 993.34
141 17 30	1285 461.29	1287 199.23	1288 937.34	1290 675.60	1292 414.01
141 20 00	1277 844.03	1279 591.58	1281 339.30	1283 087.17	1284 835.19
141 22 30	1270 227.29	1271 984.45	1273 741.77	1275 499.26	1277 256.90
141 25 00	1262 611.07	1264 377.83	1266 144.77	1267 911.87	1269 679.12
141 27 30	1254 995.36	1256 771.74	1258 548.28	1260 324.99	1262 101.86
141 30 00	1247 380.18	1249 166.16	1250 952.31	1252 738.64	1254 525.12

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.02	-.04	-.05	-.06	-.06

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	59 50 00	59 52 30	59 55 00	59 57 30	60 00 00
139 00 00	2961 309.80	2976 490.58	2991 671.41	3006 852.29	3022 033.23
139 02 30	2961 921.53	2977 101.57	2992 281.65	3007 461.80	3022 641.99
139 05 00	2962 538.07	2977 717.37	2992 896.71	3008 076.10	3023 255.55
139 07 30	2963 159.44	2978 337.99	2993 516.58	3008 695.22	3023 873.91
139 10 00	2963 785.62	2978 963.42	2994 141.25	3009 319.14	3024 497.06
139 12 30	2964 416.63	2979 593.67	2994 770.74	3009 947.85	3025 125.02
139 15 00	2965 052.45	2980 228.73	2995 405.04	3010 581.38	3025 757.77
139 17 30	2965 693.10	2980 868.60	2996 044.14	3011 219.72	3026 395.33
139 20 00	2966 338.56	2981 513.30	2996 688.06	3011 862.85	3027 037.69
139 22 30	2966 988.85	2982 162.80	2997 336.77	3012 510.79	3027 684.84
139 25 00	2967 643.95	2982 817.12	2997 990.31	3013 163.54	3028 336.80
139 27 30	2968 303.89	2983 476.26	2998 648.66	3013 821.10	3028 993.56
139 30 00	2968 968.63	2984 140.22	2999 311.82	3014 483.46	3029 655.12
139 32 30	2969 638.20	2984 808.99	2999 979.79	3015 150.62	3030 321.49
139 35 00	2970 312.59	2985 482.58	3000 652.57	3015 822.60	3030 992.65
139 37 30	2970 991.81	2986 160.99	3001 330.18	3016 499.38	3031 668.61
139 40 00	2971 675.85	2986 844.22	3002 012.59	3017 180.97	3032 349.38
139 42 30	2972 364.72	2987 532.26	3002 699.80	3017 867.37	3033 034.95
139 45 00	2973 058.41	2988 225.12	3003 391.84	3018 558.58	3033 725.33
139 47 30	2973 756.92	2988 922.80	3004 088.69	3019 254.60	3034 420.51
139 50 00	2974 460.26	2989 625.31	3004 790.36	3019 955.42	3035 120.50
139 52 30	2975 168.42	2990 332.63	3005 496.84	3020 661.06	3035 825.29
139 55 00	2975 881.40	2991 044.77	3006 208.13	3021 371.51	3036 534.88
139 57 30	2976 599.21	2991 761.73	3006 924.24	3022 086.76	3037 249.28
140 00 00	2977 321.85	2992 483.51	3007 645.16	3022 806.83	3037 968.48
140 02 30	2978 049.31	2993 210.12	3008 370.91	3023 531.70	3038 692.49
140 05 00	2978 781.60	2993 941.54	3009 101.47	3024 261.39	3039 421.31
140 07 30	2979 518.72	2994 677.79	3009 836.84	3024 995.88	3040 154.93
140 10 00	2980 260.66	2995 418.86	3010 577.03	3025 735.20	3040 893.36
140 12 30	2981 007.43	2996 164.75	3011 322.03	3026 479.32	3041 636.59
140 15 00	2981 759.03	2996 915.46	3012 071.86	3027 228.26	3042 384.63
140 17 30	2982 515.46	2997 671.00	3012 826.50	3027 982.00	3043 137.49
140 20 00	2983 276.70	2998 431.35	3013 585.96	3028 740.56	3043 895.14
140 22 30	2984 042.79	2999 196.53	3014 350.24	3029 503.93	3044 657.61
140 25 00	2984 813.70	2999 966.54	3015 119.34	3030 272.12	3045 424.89
140 27 30	2985 589.44	3000 741.37	3015 893.26	3031 045.13	3046 196.97
140 30 00	2986 370.01	3001 521.02	3016 671.99	3031 822.94	3046 973.86
140 32 30	2987 155.41	3002 305.50	3017 455.55	3032 605.57	3047 755.56
140 35 00	2987 945.64	3003 094.81	3018 243.92	3033 393.01	3048 542.07
140 37 30	2988 740.70	3003 888.94	3019 037.12	3034 185.27	3049 333.39
140 40 00	2989 540.60	3004 687.88	3019 835.13	3034 982.35	3050 129.52
140 42 30	2990 345.32	3005 491.67	3020 637.97	3035 784.24	3050 930.47
140 45 00	2991 154.87	3006 300.28	3021 445.63	3036 590.94	3051 736.22
140 47 30	2991 969.26	3007 113.71	3022 258.11	3037 402.47	3052 546.78
140 50 00	2992 788.47	3007 931.97	3023 075.41	3038 218.81	3053 362.15
140 52 30	2993 612.52	3008 755.06	3023 897.53	3039 039.96	3054 182.34
140 55 00	2994 441.41	3009 582.98	3024 724.48	3039 865.93	3055 007.34
140 57 30	2995 275.12	3010 415.72	3025 556.25	3040 696.73	3055 837.15
141 00 00	2996 113.67	3011 253.29	3026 392.84	3041 532.34	3056 671.78
141 02 30	2996 957.05	3012 095.69	3027 234.25	3042 372.76	3057 511.21
141 05 00	2997 805.27	3012 942.92	3028 080.49	3043 218.00	3058 355.46
141 07 30	2998 658.32	3013 794.97	3028 931.55	3044 068.07	3059 204.52
141 10 00	2999 516.21	3014 651.86	3029 787.43	3044 922.95	3060 058.40
141 12 30	3000 378.92	3015 513.57	3030 648.15	3045 782.65	3060 917.09
141 15 00	3001 246.48	3016 380.12	3031 513.68	3046 647.17	3061 780.60
141 17 30	3002 118.87	3017 251.50	3032 384.04	3047 516.52	3062 648.91
141 20 00	3002 996.09	3018 127.70	3033 259.22	3048 390.67	3063 522.05
141 22 30	3003 878.16	3019 008.74	3034 139.24	3049 269.66	3064 400.00
141 25 00	3004 765.05	3019 894.61	3035 024.07	3050 153.45	3065 282.76
141 27 30	3005 656.79	3020 785.31	3035 913.73	3051 042.08	3066 170.34
141 30 00	3006 553.36	3021 680.84	3036 808.22	3051 935.52	3067 062.74

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.33	-.38	-.43	-.47	-.50	-.53	-.56	-.58	-.59	-.60	-.60

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	60 00 00	60 02 30	60 05 00	60 07 30	60 10 00
136 30 00	2166 754.45	2167 391.47	2168 028.37	2168 665.18	2169 301.89
136 32 30	2159 133.23	2159 779.79	2160 426.24	2161 072.60	2161 718.85
136 35 00	2151 512.24	2152 168.33	2152 824.34	2153 480.24	2154 136.04
136 37 30	2143 891.48	2144 557.12	2145 222.66	2145 888.11	2146 553.47
136 40 00	2136 270.96	2136 946.14	2137 621.22	2138 296.23	2138 971.13
136 42 30	2128 650.66	2129 335.38	2130 020.02	2130 704.57	2131 389.02
136 45 00	2121 030.60	2121 724.87	2122 419.06	2123 113.16	2123 807.16
136 47 30	2113 410.80	2114 114.61	2114 818.34	2115 521.99	2116 225.55
136 50 00	2105 791.22	2106 504.58	2107 217.86	2107 931.06	2108 644.17
136 52 30	2098 171.90	2098 894.80	2099 617.63	2100 340.39	2101 063.05
136 55 00	2090 552.81	2091 285.27	2092 017.65	2092 749.95	2093 482.17
136 57 30	2082 933.98	2083 675.98	2084 417.91	2085 159.77	2085 901.55
137 00 00	2075 315.40	2076 066.96	2076 818.43	2077 569.84	2078 321.18
137 02 30	2067 697.08	2068 458.18	2069 219.21	2069 980.17	2070 741.07
137 05 00	2060 079.01	2060 849.66	2061 620.25	2062 390.77	2063 161.21
137 07 30	2052 461.21	2053 241.41	2054 021.55	2054 801.62	2055 581.63
137 10 00	2044 843.66	2045 633.41	2046 423.11	2047 212.74	2048 002.30
137 12 30	2037 226.38	2038 025.68	2038 824.93	2039 624.12	2040 423.24
137 15 00	2029 609.36	2030 418.22	2031 227.02	2032 035.77	2032 844.45
137 17 30	2021 992.62	2022 811.03	2023 629.38	2024 447.69	2025 265.94
137 20 00	2014 376.14	2015 204.11	2016 032.02	2016 859.88	2017 687.69
137 22 30	2006 759.94	2007 597.46	2008 434.93	2009 272.36	2010 109.73
137 25 00	1999 144.01	1999 991.09	2000 838.12	2001 685.10	2002 532.03
137 27 30	1991 528.37	1992 385.00	1993 241.59	1994 098.13	1994 954.63
137 30 00	1983 913.01	1984 779.20	1985 645.35	1986 511.45	1987 377.51
137 32 30	1976 297.93	1977 173.67	1978 049.38	1978 925.04	1979 800.67
137 35 00	1968 683.13	1969 568.43	1970 453.71	1971 338.94	1972 224.12
137 37 30	1961 068.62	1961 963.49	1962 858.32	1963 753.11	1964 647.87
137 40 00	1953 454.41	1954 358.83	1955 263.23	1956 167.58	1957 071.91
137 42 30	1945 840.48	1946 754.47	1947 668.42	1948 582.35	1949 496.23
137 45 00	1938 226.87	1939 150.41	1940 073.93	1940 997.41	1941 920.87
137 47 30	1930 613.54	1931 546.64	1932 479.72	1933 412.78	1934 345.80
137 50 00	1923 000.50	1923 943.17	1924 885.82	1925 828.44	1926 771.03
137 52 30	1915 387.79	1916 340.02	1917 292.23	1918 244.42	1919 196.58
137 55 00	1907 775.37	1908 737.16	1909 698.94	1910 660.70	1911 622.43
137 57 30	1900 163.26	1901 134.61	1902 105.96	1903 077.29	1904 048.59
138 00 00	1892 551.46	1893 532.38	1894 513.30	1895 494.19	1896 475.07
138 02 30	1884 939.97	1885 930.46	1886 920.94	1887 911.41	1888 901.86
138 05 00	1877 328.80	1878 328.86	1879 328.90	1880 328.94	1881 328.97
138 07 30	1869 717.95	1870 727.57	1871 737.19	1872 746.80	1873 756.40
138 10 00	1862 107.42	1863 126.61	1864 145.80	1865 164.97	1866 184.15
138 12 30	1854 497.20	1855 525.96	1856 554.72	1857 583.48	1858 612.22
138 15 00	1846 887.32	1847 925.65	1848 963.98	1850 002.31	1851 040.63
138 17 30	1839 277.77	1840 325.67	1841 373.57	1842 421.47	1843 469.36
138 20 00	1831 668.54	1832 726.01	1833 783.48	1834 840.96	1835 898.43
138 22 30	1824 059.65	1825 126.69	1826 193.74	1827 260.79	1828 327.84
138 25 00	1816 451.09	1817 527.71	1818 604.33	1819 680.95	1820 757.59
138 27 30	1808 842.88	1809 929.06	1811 015.25	1812 101.45	1813 187.66
138 30 00	1801 234.99	1802 330.75	1803 426.52	1804 522.30	1805 618.09
138 32 30	1793 627.46	1794 732.79	1795 838.13	1796 943.49	1798 048.86
138 35 00	1786 020.27	1787 135.17	1788 250.09	1789 365.03	1790 479.98
138 37 30	1778 413.43	1779 537.91	1780 662.41	1781 786.92	1782 911.45
138 40 00	1770 806.93	1771 940.99	1773 075.06	1774 209.16	1775 343.27
138 42 30	1763 200.79	1764 344.42	1765 488.07	1766 631.76	1767 775.45
138 45 00	1755 595.01	1756 748.22	1757 901.45	1759 054.71	1760 207.99
138 47 30	1747 989.58	1749 152.36	1750 315.18	1751 478.02	1752 640.88
138 50 00	1740 384.51	1741 556.88	1742 729.27	1743 901.69	1745 074.14
138 52 30	1732 779.81	1733 961.75	1735 143.72	1736 325.73	1737 507.76
138 55 00	1725 175.47	1726 366.99	1727 558.54	1728 750.13	1729 941.75
138 57 30	1717 571.50	1718 772.60	1719 973.74	1721 174.91	1722 376.11
139 00 00	1709 967.90	1711 178.58	1712 389.30	1713 600.05	1714 810.85

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.02	-.03	-.04	-.04

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	60 00 00	60 02 30	60 05 00	60 07 30	60 10 00
136 30 00	2994 276.32	3009 493.15	3024 710.17	3039 927.39	3055 144.80
136 32 30	2994 597.78	3009 814.16	3025 030.72	3040 247.48	3055 464.43
136 35 00	2994 924.02	3010 139.94	3025 356.04	3040 572.34	3055 788.82
136 37 30	2995 255.03	3010 470.49	3025 686.13	3040 901.96	3056 117.97
136 40 00	2995 590.83	3010 805.82	3026 020.99	3041 236.35	3056 451.89
136 42 30	2995 931.41	3011 145.92	3026 360.61	3041 575.49	3056 790.56
136 45 00	2996 276.76	3011 490.80	3026 705.01	3041 919.41	3057 133.99
136 47 30	2996 626.90	3011 840.45	3027 054.18	3042 268.10	3057 482.18
136 50 00	2996 981.82	3012 194.88	3027 408.12	3042 621.54	3057 835.14
136 52 30	2997 341.51	3012 554.08	3027 766.83	3042 979.75	3058 192.85
136 55 00	2997 705.99	3012 918.07	3028 130.31	3043 342.74	3058 555.33
136 57 30	2998 075.25	3013 286.82	3028 498.56	3043 710.48	3058 922.57
137 00 00	2998 449.29	3013 660.35	3028 871.59	3044 083.00	3059 294.57
137 02 30	2998 828.11	3014 038.67	3029 249.39	3044 460.28	3059 671.33
137 05 00	2999 211.72	3014 421.76	3029 631.96	3044 842.33	3060 052.86
137 07 30	2999 600.10	3014 809.62	3030 019.30	3045 229.15	3060 439.15
137 10 00	2999 993.27	3015 202.27	3030 411.42	3045 620.73	3060 830.21
137 12 30	3000 391.23	3015 599.69	3030 808.31	3046 017.09	3061 226.03
137 15 00	3000 793.97	3016 001.89	3031 209.97	3046 418.21	3061 626.61
137 17 30	3001 201.49	3016 408.88	3031 616.41	3046 824.11	3062 031.96
137 20 00	3001 613.80	3016 820.64	3032 027.63	3047 234.77	3062 442.07
137 22 30	3002 030.89	3017 237.18	3032 443.62	3047 650.21	3062 856.95
137 25 00	3002 452.76	3017 658.51	3032 864.38	3048 070.41	3063 276.60
137 27 30	3002 879.43	3018 084.60	3033 289.92	3048 495.39	3063 701.00
137 30 00	3003 310.88	3018 515.49	3033 720.24	3048 925.14	3064 130.18
137 32 30	3003 747.11	3018 951.15	3034 155.33	3049 359.66	3064 564.12
137 35 00	3004 188.13	3019 391.60	3034 595.20	3049 798.95	3065 002.83
137 37 30	3004 633.94	3019 836.82	3035 039.85	3050 243.01	3065 446.31
137 40 00	3005 084.54	3020 286.84	3035 489.27	3050 691.85	3065 894.55
137 42 30	3005 539.92	3020 741.64	3035 943.47	3051 145.46	3066 347.57
137 45 00	3006 000.09	3021 201.21	3036 402.45	3051 603.84	3066 805.35
137 47 30	3006 465.05	3021 665.57	3036 866.21	3052 066.99	3067 267.90
137 50 00	3006 934.80	3022 134.71	3037 334.75	3052 534.92	3067 735.22
137 52 30	3007 409.33	3022 608.64	3037 808.07	3053 007.62	3068 207.31
137 55 00	3007 888.66	3023 087.35	3038 286.16	3053 485.10	3068 684.16
137 57 30	3008 372.78	3023 570.85	3038 769.04	3053 967.36	3069 165.79
138 00 00	3008 861.68	3024 059.13	3039 256.69	3054 454.39	3069 652.19
138 02 30	3009 355.37	3024 552.20	3039 749.13	3054 946.19	3070 143.36
138 05 00	3009 853.86	3025 050.05	3040 246.35	3055 442.77	3070 639.30
138 07 30	3010 357.14	3025 552.69	3040 748.34	3055 944.12	3071 140.01
138 10 00	3010 865.21	3026 060.12	3041 255.12	3056 450.25	3071 645.49
138 12 30	3011 378.07	3026 572.33	3041 766.69	3056 961.16	3072 155.75
138 15 00	3011 895.72	3027 089.32	3042 283.03	3057 476.85	3072 670.77
138 17 30	3012 418.16	3027 611.11	3042 804.15	3057 997.31	3073 190.57
138 20 00	3012 945.40	3028 137.68	3043 330.06	3058 522.55	3073 715.14
138 22 30	3013 477.43	3028 669.04	3043 860.75	3059 052.57	3074 244.48
138 25 00	3014 014.25	3029 205.19	3044 396.22	3059 587.36	3074 778.60
138 27 30	3014 555.86	3029 746.13	3044 936.48	3060 126.94	3075 317.49
138 30 00	3015 102.27	3030 291.85	3045 481.52	3060 671.29	3075 861.15
138 32 30	3015 653.47	3030 842.37	3046 031.35	3061 220.43	3076 409.60
138 35 00	3016 209.48	3031 397.67	3046 585.96	3061 774.34	3076 962.81
138 37 30	3016 770.27	3031 957.77	3047 145.35	3062 333.04	3077 520.80
138 40 00	3017 335.86	3032 522.66	3047 709.54	3062 896.51	3078 083.56
138 42 30	3017 906.24	3033 092.33	3048 278.51	3063 464.76	3078 651.10
138 45 00	3018 481.42	3033 666.80	3048 852.26	3064 037.80	3079 223.41
138 47 30	3019 061.40	3034 246.06	3049 430.79	3064 615.62	3079 800.51
138 50 00	3019 646.17	3034 830.11	3050 014.12	3065 198.21	3080 382.37
138 52 30	3020 235.74	3035 418.95	3050 602.23	3065 785.59	3080 969.02
138 55 00	3020 830.11	3036 012.58	3051 195.13	3066 377.75	3081 560.44
138 57 30	3021 429.27	3036 611.01	3051 792.81	3066 974.70	3082 156.64
139 00 00	3022 033.23	3037 214.23	3052 395.29	3067 576.42	3082 757.62

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.33	-.38	-.43	-.47	-.50	-.53	-.56	-.58	-.59	-.60	-.60

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.01	-.01	-.02	-.02	-.02

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	60 00 00	60 02 30	60 05 00	60 07 30	60 10 00
139 00 00	1709 967.90	1711 178.58	1712 389.30	1713 600.05	1714 810.85
139 02 30	1702 364.66	1703 584.93	1704 805.23	1706 025.57	1707 245.95
139 05 00	1694 761.81	1695 991.66	1697 221.55	1698 451.48	1699 681.44
139 07 30	1687 159.34	1688 398.76	1689 638.23	1690 877.75	1692 117.31
139 10 00	1679 557.24	1680 806.25	1682 055.31	1683 304.41	1684 553.56
139 12 30	1671 955.53	1673 214.13	1674 472.77	1675 731.46	1676 990.20
139 15 00	1664 354.20	1665 622.38	1666 890.61	1668 158.89	1669 427.22
139 17 30	1656 753.25	1658 031.02	1659 308.84	1660 586.71	1661 864.63
139 20 00	1649 152.72	1650 440.07	1651 727.47	1653 014.93	1654 302.44
139 22 30	1641 552.55	1642 849.49	1644 146.49	1645 443.53	1646 740.64
139 25 00	1633 952.80	1635 259.31	1636 565.90	1637 872.54	1639 179.23
139 27 30	1626 353.43	1627 669.54	1628 985.72	1630 301.95	1631 618.24
139 30 00	1618 754.47	1620 080.17	1621 405.93	1622 731.75	1624 057.64
139 32 30	1611 155.90	1612 491.19	1613 826.54	1615 161.96	1616 497.44
139 35 00	1603 557.76	1604 902.63	1606 247.58	1607 592.59	1608 937.66
139 37 30	1595 960.01	1597 314.47	1598 669.01	1600 023.62	1601 378.29
139 40 00	1588 362.67	1589 726.73	1591 090.85	1592 455.06	1593 819.32
139 42 30	1580 765.75	1582 139.40	1583 513.12	1584 886.92	1586 260.78
139 45 00	1573 169.24	1574 552.48	1575 935.80	1577 319.19	1578 702.65
139 47 30	1565 573.15	1566 965.98	1568 358.89	1569 751.88	1571 144.94
139 50 00	1557 977.48	1559 379.91	1560 782.42	1562 185.01	1563 587.66
139 52 30	1550 382.23	1551 794.26	1553 206.36	1554 618.54	1556 030.80
139 55 00	1542 787.41	1544 209.03	1545 630.73	1547 052.51	1548 474.37
139 57 30	1535 193.03	1536 624.24	1538 055.53	1539 486.91	1540 918.38
140 00 00	1527 599.06	1529 039.87	1530 480.76	1531 921.75	1533 362.81
140 02 30	1520 005.53	1521 455.94	1522 906.43	1524 357.01	1525 807.67
140 05 00	1512 412.45	1513 872.44	1515 332.54	1516 792.72	1518 252.99
140 07 30	1504 819.79	1506 289.39	1507 759.08	1509 228.86	1510 698.74
140 10 00	1497 227.58	1498 706.77	1500 186.06	1501 665.45	1503 144.93
140 12 30	1489 635.82	1491 124.61	1492 613.50	1494 102.49	1495 591.57
140 15 00	1482 044.49	1483 542.88	1485 041.38	1486 539.97	1488 038.65
140 17 30	1474 453.62	1475 961.61	1477 469.70	1478 977.90	1480 486.19
140 20 00	1466 863.20	1468 380.79	1469 898.49	1471 416.29	1472 934.19
140 22 30	1459 273.24	1460 800.42	1462 327.73	1463 855.13	1465 382.63
140 25 00	1451 683.72	1453 220.52	1454 757.42	1456 294.42	1457 831.54
140 27 30	1444 094.67	1445 641.07	1447 187.58	1448 734.19	1450 280.91
140 30 00	1436 506.08	1438 062.08	1439 618.19	1441 174.41	1442 730.74
140 32 30	1428 917.95	1430 483.55	1432 049.28	1433 615.10	1435 181.04
140 35 00	1421 330.29	1422 905.50	1424 480.83	1426 056.26	1427 631.81
140 37 30	1413 743.10	1415 327.91	1416 912.85	1418 497.89	1420 083.04
140 40 00	1406 156.38	1407 750.80	1409 345.34	1410 939.99	1412 534.76
140 42 30	1398 570.15	1400 174.17	1401 778.31	1403 382.58	1404 986.95
140 45 00	1390 984.38	1392 598.01	1394 211.76	1395 825.63	1397 439.62
140 47 30	1383 399.09	1385 022.33	1386 645.69	1388 269.18	1389 892.77
140 50 00	1375 814.28	1377 447.13	1379 080.10	1380 713.20	1382 346.41
140 52 30	1368 229.96	1369 872.42	1371 515.00	1373 157.70	1374 800.53
140 55 00	1360 646.13	1362 298.20	1363 950.39	1365 602.71	1367 255.15
140 57 30	1353 062.79	1354 724.46	1356 386.26	1358 048.20	1359 710.25
141 00 00	1345 479.94	1347 151.22	1348 822.64	1350 494.18	1352 165.86
141 02 30	1337 897.59	1339 578.48	1341 259.51	1342 940.67	1344 621.96
141 05 00	1330 315.74	1332 006.23	1333 696.87	1335 387.65	1337 078.55
141 07 30	1322 734.38	1324 434.49	1326 134.74	1327 835.13	1329 535.65
141 10 00	1315 153.52	1316 863.25	1318 573.11	1320 283.12	1321 993.26
141 12 30	1307 573.18	1309 292.52	1311 011.99	1312 731.62	1314 451.38
141 15 00	1299 993.34	1301 722.29	1303 451.39	1305 180.62	1306 910.00
141 17 30	1292 414.01	1294 152.58	1295 891.29	1297 630.14	1299 369.14
141 20 00	1284 835.19	1286 583.37	1288 331.70	1290 080.18	1291 828.79
141 22 30	1277 256.90	1279 014.69	1280 772.64	1282 530.73	1284 288.96
141 25 00	1269 679.12	1271 446.53	1273 214.09	1274 981.80	1276 749.66
141 27 30	1262 101.86	1263 878.88	1265 656.06	1267 433.40	1269 210.87
141 30 00	1254 525.12	1256 311.77	1258 098.56	1259 885.52	1261 672.61

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.02	-.04	-.05	-.06	-.06

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	60 00 00	60 02 30	60 05 00	60 07 30	60 10 00
139 00 00	3022 033.23	3037 214.23	3052 395.29	3067 576.42	3082 757.62
139 02 30	3022 641.99	3037 822.24	3053 002.55	3068 182.94	3083 363.38
139 05 00	3023 255.55	3038 435.05	3053 614.60	3068 794.23	3083 973.91
139 07 30	3023 873.91	3039 052.65	3054 231.44	3069 410.30	3084 589.22
139 10 00	3024 497.06	3039 675.04	3054 853.07	3070 031.17	3085 209.32
139 12 30	3025 125.02	3040 302.23	3055 479.49	3070 656.81	3085 834.18
139 15 00	3025 757.77	3040 934.21	3056 110.70	3071 287.24	3086 463.84
139 17 30	3026 395.33	3041 570.99	3056 746.69	3071 922.46	3087 098.27
139 20 00	3027 037.69	3042 212.56	3057 387.48	3072 562.46	3087 737.48
139 22 30	3027 684.84	3042 858.93	3058 033.05	3073 207.24	3088 381.47
139 25 00	3028 336.80	3043 510.09	3058 683.42	3073 856.81	3089 030.24
139 27 30	3028 993.56	3044 166.06	3059 338.59	3074 511.17	3089 683.79
139 30 00	3029 655.12	3044 826.81	3059 998.54	3075 170.32	3090 342.13
139 32 30	3030 321.49	3045 492.37	3060 663.28	3075 834.25	3091 005.25
139 35 00	3030 992.65	3046 162.72	3061 332.82	3076 502.96	3091 673.14
139 37 30	3031 668.61	3046 837.87	3062 007.14	3077 176.47	3092 345.82
139 40 00	3032 349.38	3047 517.81	3062 686.27	3077 854.76	3093 023.20
139 42 30	3033 034.95	3048 202.56	3063 370.18	3078 537.84	3093 705.53
139 45 00	3033 725.33	3048 892.10	3064 058.89	3079 225.71	3094 392.56
139 47 30	3034 420.51	3049 586.45	3064 752.39	3079 918.37	3095 084.37
139 50 00	3035 120.50	3050 285.58	3065 450.68	3080 615.82	3095 780.97
139 52 30	3035 825.29	3050 989.52	3066 153.77	3081 318.05	3096 482.35
139 55 00	3036 534.88	3051 698.27	3066 861.66	3082 025.08	3097 188.52
139 57 30	3037 249.28	3052 411.80	3067 574.34	3082 736.89	3097 899.46
140 00 00	3037 968.48	3053 130.14	3068 291.81	3083 453.50	3098 615.20
140 02 30	3038 692.49	3053 853.29	3069 014.08	3084 174.89	3099 335.72
140 05 00	3039 421.31	3054 581.22	3069 741.14	3084 901.08	3100 061.02
140 07 30	3040 154.93	3055 313.96	3070 473.00	3085 632.06	3100 791.11
140 10 00	3040 893.36	3056 051.51	3071 209.66	3086 367.83	3101 525.99
140 12 30	3041 636.59	3056 793.86	3071 951.12	3087 108.39	3102 265.65
140 15 00	3042 384.63	3057 541.01	3072 697.37	3087 853.74	3103 010.10
140 17 30	3043 137.49	3058 292.95	3073 448.42	3088 603.88	3103 759.34
140 20 00	3043 895.14	3059 049.71	3074 204.26	3089 358.82	3104 513.36
140 22 30	3044 657.61	3059 811.27	3074 964.91	3090 118.54	3105 272.18
140 25 00	3045 424.89	3060 577.63	3075 730.35	3090 883.07	3106 035.78
140 27 30	3046 196.97	3061 348.79	3076 500.59	3091 652.39	3106 804.17
140 30 00	3046 973.86	3062 124.76	3077 275.63	3092 426.49	3107 577.34
140 32 30	3047 755.56	3062 905.52	3078 055.46	3093 205.39	3108 355.30
140 35 00	3048 542.07	3063 691.10	3078 840.10	3093 989.09	3109 138.06
140 37 30	3049 333.39	3064 481.48	3079 629.54	3094 777.59	3109 925.60
140 40 00	3050 129.52	3065 276.66	3080 423.77	3095 570.87	3110 717.94
140 42 30	3050 930.47	3066 076.66	3081 222.81	3096 368.95	3111 515.06
140 45 00	3051 736.22	3066 881.45	3082 026.65	3097 171.82	3112 316.97
140 47 30	3052 546.78	3067 691.05	3082 835.28	3097 979.50	3113 123.67
140 50 00	3053 362.15	3068 505.46	3083 648.72	3098 791.97	3113 935.17
140 52 30	3054 182.34	3069 324.68	3084 466.97	3099 609.23	3114 751.45
140 55 00	3055 007.34	3070 148.69	3085 290.01	3100 431.29	3115 572.53
140 57 30	3055 837.15	3070 977.53	3086 117.85	3101 258.15	3116 398.40
141 00 00	3056 671.78	3071 811.16	3086 950.50	3102 089.80	3117 229.05
141 02 30	3057 511.21	3072 649.60	3087 787.95	3102 926.25	3118 064.50
141 05 00	3058 355.46	3073 492.86	3088 630.20	3103 767.50	3118 904.75
141 07 30	3059 204.52	3074 340.91	3089 477.25	3104 613.55	3119 749.78
141 10 00	3060 058.40	3075 193.78	3090 329.11	3105 464.39	3120 599.61
141 12 30	3060 917.09	3076 051.46	3091 185.77	3106 320.03	3121 454.23
141 15 00	3061 780.60	3076 913.95	3092 047.23	3107 180.47	3122 313.65
141 17 30	3062 648.91	3077 781.24	3092 913.50	3108 045.72	3123 177.86
141 20 00	3063 522.05	3078 653.35	3093 784.58	3108 915.75	3124 046.87
141 22 30	3064 400.00	3079 530.26	3094 660.46	3109 790.60	3124 920.66
141 25 00	3065 282.76	3080 411.99	3095 541.14	3110 670.23	3125 799.25
141 27 30	3066 170.34	3081 298.52	3096 426.63	3111 554.67	3126 682.64
141 30 00	3067 062.74	3082 189.87	3097 316.92	3112 443.91	3127 570.82

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.33	-.38	-.43	-.47	-.50	-.53	-.56	-.58	-.59	-.60	-.60

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	60 10 00	60 12 30	60 15 00	60 17 30	60 20 00
139 00 00	1714 810.85	1716 021.67	1717 232.51	1718 443.38	1719 654.27
139 02 30	1707 245.95	1708 466.37	1709 686.80	1710 907.27	1712 127.75
139 05 00	1699 681.44	1700 911.44	1702 141.47	1703 371.53	1704 601.61
139 07 30	1692 117.31	1693 356.90	1694 596.53	1695 836.18	1697 075.86
139 10 00	1684 553.56	1685 802.74	1687 051.96	1688 301.20	1689 550.48
139 12 30	1676 990.20	1678 248.97	1679 507.79	1680 766.63	1682 025.50
139 15 00	1669 427.22	1670 695.59	1671 964.00	1673 232.43	1674 500.91
139 17 30	1661 864.63	1663 142.59	1664 420.60	1665 698.63	1666 976.70
139 20 00	1654 302.44	1655 590.00	1656 877.60	1658 165.23	1659 452.90
139 22 30	1646 740.64	1648 037.79	1649 334.98	1650 632.22	1651 929.49
139 25 00	1639 179.23	1640 485.98	1641 792.77	1643 099.61	1644 406.48
139 27 30	1631 618.24	1632 934.58	1634 250.97	1635 567.40	1636 883.88
139 30 00	1624 057.64	1625 383.57	1626 709.56	1628 035.60	1629 361.68
139 32 30	1616 497.44	1617 832.97	1619 168.56	1620 504.20	1621 839.89
139 35 00	1608 937.66	1610 282.80	1611 627.98	1612 973.22	1614 318.51
139 37 30	1601 378.29	1602 733.02	1604 087.80	1605 442.65	1606 797.53
139 40 00	1593 819.32	1595 183.65	1596 548.04	1597 912.49	1599 276.98
139 42 30	1586 260.78	1587 634.71	1589 008.70	1590 382.75	1591 756.85
139 45 00	1578 702.65	1580 086.18	1581 469.77	1582 853.43	1584 237.13
139 47 30	1571 144.94	1572 538.07	1573 931.27	1575 324.52	1576 717.84
139 50 00	1563 587.66	1564 990.40	1566 393.19	1567 796.05	1569 198.97
139 52 30	1556 030.80	1557 443.14	1558 855.53	1560 268.00	1561 680.53
139 55 00	1548 474.37	1549 896.30	1551 318.31	1552 740.39	1554 162.52
139 57 30	1540 918.38	1542 349.91	1543 781.52	1545 213.20	1546 644.94
140 00 00	1533 362.81	1534 803.95	1536 245.16	1537 686.45	1539 127.80
140 02 30	1525 807.67	1527 258.42	1528 709.24	1530 160.14	1531 611.10
140 05 00	1518 252.99	1519 713.34	1521 173.77	1522 634.27	1524 094.84
140 07 30	1510 698.74	1512 168.69	1513 638.72	1515 108.84	1516 579.02
140 10 00	1503 144.93	1504 624.48	1506 104.12	1507 583.85	1509 063.64
140 12 30	1495 591.57	1497 080.73	1498 569.99	1500 059.32	1501 548.73
140 15 00	1488 038.65	1489 537.42	1491 036.29	1492 535.23	1494 034.25
140 17 30	1480 486.19	1481 994.57	1483 503.04	1485 011.59	1486 520.23
140 20 00	1472 934.19	1474 452.18	1475 970.26	1477 488.42	1479 006.67
140 22 30	1465 382.63	1466 910.23	1468 437.92	1469 965.70	1471 493.56
140 25 00	1457 831.54	1459 368.75	1460 906.05	1462 443.44	1463 980.92
140 27 30	1450 280.91	1451 827.73	1453 374.64	1454 921.64	1456 468.74
140 30 00	1442 730.74	1444 287.17	1445 843.69	1447 400.32	1448 957.03
140 32 30	1435 181.04	1436 747.08	1438 313.22	1439 879.45	1441 445.78
140 35 00	1427 631.81	1429 207.46	1430 783.21	1432 359.06	1433 935.00
140 37 30	1420 083.04	1421 668.30	1423 253.67	1424 839.14	1426 424.70
140 40 00	1412 534.76	1414 129.63	1415 724.61	1417 319.69	1418 914.88
140 42 30	1404 986.95	1406 591.44	1408 196.04	1409 800.74	1411 405.53
140 45 00	1397 439.62	1399 053.72	1400 667.93	1402 282.25	1403 896.66
140 47 30	1389 892.77	1391 516.49	1393 140.32	1394 764.25	1396 388.29
140 50 00	1382 346.41	1383 979.74	1385 613.19	1387 246.74	1388 880.39
140 52 30	1374 800.53	1376 443.48	1378 086.54	1379 729.71	1381 372.99
140 55 00	1367 255.15	1368 907.71	1370 560.39	1372 213.18	1373 866.08
140 57 30	1359 710.25	1361 372.43	1363 034.73	1364 697.14	1366 359.67
141 00 00	1352 165.86	1353 837.65	1355 509.57	1357 181.60	1358 853.74
141 02 30	1344 621.96	1346 303.37	1347 984.90	1349 666.56	1351 348.33
141 05 00	1337 078.55	1338 769.58	1340 460.74	1342 152.02	1343 843.41
141 07 30	1329 535.65	1331 236.30	1332 937.08	1334 637.98	1336 338.99
141 10 00	1321 993.26	1323 703.53	1325 413.93	1327 124.45	1328 835.09
141 12 30	1314 451.38	1316 171.27	1317 891.28	1319 611.43	1321 331.69
141 15 00	1306 910.00	1308 639.51	1310 369.15	1312 098.92	1313 828.81
141 17 30	1299 369.14	1301 108.27	1302 847.54	1304 586.92	1306 326.44
141 20 00	1291 828.79	1293 577.54	1295 326.43	1297 075.45	1298 824.59
141 22 30	1284 288.96	1286 047.34	1287 805.85	1289 564.49	1291 323.26
141 25 00	1276 749.66	1278 517.65	1280 285.79	1282 054.05	1283 822.46
141 27 30	1269 210.87	1270 988.49	1272 766.25	1274 544.15	1276 322.17
141 30 00	1261 672.61	1263 459.86	1265 247.24	1267 034.76	1268 822.42

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.02	-.04	-.05	-.06	-.06

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	60 10 00	60 12 30	60 15 00	60 17 30	60 20 00
139 00 00	3082 757.62	3097 938.90	3113 120.25	3128 301.68	3143 483.19
139 02 30	3083 363.38	3098 543.89	3113 724.48	3128 905.16	3144 085.91
139 05 00	3083 973.91	3099 153.66	3114 333.50	3129 513.40	3144 693.38
139 07 30	3084 589.22	3099 768.21	3114 947.27	3130 126.41	3145 305.62
139 10 00	3085 209.32	3100 387.53	3115 565.82	3130 744.18	3145 922.61
139 12 30	3085 834.18	3101 011.62	3116 189.14	3131 366.71	3146 544.36
139 15 00	3086 463.84	3101 640.50	3116 817.22	3131 994.01	3147 170.87
139 17 30	3087 098.27	3102 274.14	3117 450.07	3132 626.07	3147 802.14
139 20 00	3087 737.48	3102 912.55	3118 087.70	3133 262.90	3148 438.17
139 22 30	3088 381.47	3103 555.75	3118 730.09	3133 904.49	3149 078.96
139 25 00	3089 030.24	3104 203.72	3119 377.26	3134 550.86	3149 724.51
139 27 30	3089 683.79	3104 856.47	3120 029.20	3135 201.98	3150 374.82
139 30 00	3090 342.13	3105 513.99	3120 685.90	3135 857.87	3151 029.89
139 32 30	3091 005.25	3106 176.28	3121 347.38	3136 518.53	3151 689.72
139 35 00	3091 673.14	3106 843.36	3122 013.63	3137 183.96	3152 354.32
139 37 30	3092 345.82	3107 515.21	3122 684.65	3137 854.14	3153 023.68
139 40 00	3093 023.28	3108 191.84	3123 360.46	3138 529.10	3153 697.80
139 42 30	3093 705.53	3108 873.25	3124 041.02	3139 208.83	3154 376.68
139 45 00	3094 392.56	3109 559.44	3124 726.36	3139 893.32	3155 060.32
139 47 30	3095 084.37	3110 250.41	3125 416.48	3140 582.59	3155 748.73
139 50 00	3095 780.97	3110 946.15	3126 111.36	3141 276.62	3156 441.91
139 52 30	3096 482.35	3111 646.67	3126 811.03	3141 975.42	3157 139.84
139 55 00	3097 188.52	3112 351.97	3127 515.47	3142 678.99	3157 842.54
139 57 30	3097 899.46	3113 062.05	3128 224.68	3143 387.33	3158 550.01
140 00 00	3098 615.20	3113 776.92	3128 938.66	3144 100.44	3159 262.23
140 02 30	3099 335.72	3114 496.56	3129 657.42	3144 818.31	3159 979.22
140 05 00	3100 061.02	3115 220.98	3130 380.96	3145 540.96	3160 700.98
140 07 30	3100 791.11	3115 950.18	3131 109.27	3146 268.38	3161 427.51
140 10 00	3101 525.99	3116 684.16	3131 842.36	3147 000.57	3162 158.80
140 12 30	3102 265.65	3117 422.93	3132 580.22	3147 737.53	3162 894.85
140 15 00	3103 010.10	3118 166.47	3133 322.86	3148 479.26	3163 635.67
140 17 30	3103 759.34	3118 914.80	3134 070.28	3149 225.77	3164 381.25
140 20 00	3104 513.36	3119 667.91	3134 822.47	3149 977.04	3165 131.61
140 22 30	3105 272.18	3120 425.80	3135 579.44	3150 733.08	3165 886.73
140 25 00	3106 035.78	3121 188.48	3136 341.19	3151 493.91	3166 646.62
140 27 30	3106 804.17	3121 955.94	3137 107.72	3152 259.50	3167 411.27
140 30 00	3107 577.34	3122 728.18	3137 879.02	3153 029.86	3168 180.69
140 32 30	3108 355.30	3123 505.20	3138 655.10	3153 805.00	3168 954.89
140 35 00	3109 138.06	3124 287.02	3139 435.96	3154 584.91	3169 733.85
140 37 30	3109 925.60	3125 073.61	3140 221.60	3155 369.60	3170 517.58
140 40 00	3110 717.94	3125 864.98	3141 012.02	3156 159.06	3171 306.07
140 42 30	3111 515.06	3126 661.14	3141 807.22	3156 953.29	3172 099.34
140 45 00	3112 316.97	3127 462.09	3142 607.20	3157 752.30	3172 897.37
140 47 30	3113 123.67	3128 267.82	3143 411.96	3158 556.08	3173 700.18
140 50 00	3113 935.17	3129 078.34	3144 221.50	3159 364.64	3174 507.75
140 52 30	3114 751.45	3129 893.65	3145 035.82	3160 177.97	3175 320.10
140 55 00	3115 572.53	3130 713.74	3145 854.92	3160 996.08	3176 137.22
140 57 30	3116 398.40	3131 538.61	3146 678.80	3161 818.97	3176 959.11
141 00 00	3117 229.05	3132 368.27	3147 507.46	3162 646.63	3177 785.76
141 02 30	3118 064.50	3133 202.72	3148 340.91	3163 479.07	3178 617.19
141 05 00	3118 904.75	3134 041.96	3149 179.13	3164 316.28	3179 453.39
141 07 30	3119 749.78	3134 885.98	3150 022.14	3165 158.27	3180 294.36
141 10 00	3120 599.61	3135 734.79	3150 869.94	3166 005.04	3181 140.10
141 12 30	3121 454.23	3136 588.39	3151 722.51	3166 856.58	3181 990.62
141 15 00	3122 313.65	3137 446.78	3152 579.86	3167 712.91	3182 845.90
141 17 30	3123 177.86	3138 309.95	3153 442.01	3168 574.01	3183 705.97
141 20 00	3124 046.87	3139 177.92	3154 308.93	3169 439.89	3184 570.80
141 22 30	3124 920.66	3140 050.67	3155 180.63	3170 310.55	3185 440.41
141 25 00	3125 799.25	3140 928.22	3156 057.13	3171 185.99	3186 314.79
141 27 30	3126 682.64	3141 810.55	3156 938.40	3172 066.20	3187 193.94
141 30 00	3127 570.82	3142 697.67	3157 824.47	3172 951.20	3188 077.88

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.22	-.28	-.33	-.38	-.43	-.47	-.50	-.53	-.56	-.58	-.59	-.60	-.60

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATES
X – FEET

λ \ φ	60 20 00	60 22 30	60 25 00	60 27 30	60 30 00
139 00 00	1719 654.27	1720 865.17	1722 076.08	1723 287.01	1724 497.93
139 02 30	1712 127.75	1713 348.25	1714 568.76	1715 789.28	1717 009.81
139 05 00	1704 601.61	1705 831.71	1707 061.83	1708 291.95	1709 522.09
139 07 30	1697 075.86	1698 315.55	1699 555.27	1700 795.00	1702 034.73
139 10 00	1689 550.48	1690 799.78	1692 049.10	1693 298.43	1694 547.78
139 12 30	1682 025.50	1683 284.40	1684 543.32	1685 802.26	1687 061.22
139 15 00	1674 500.91	1675 769.41	1677 037.93	1678 306.48	1679 575.04
139 17 30	1666 976.70	1668 254.81	1669 532.93	1670 811.08	1672 089.25
139 20 00	1659 452.90	1660 740.61	1662 028.34	1663 316.10	1664 603.87
139 22 30	1651 929.49	1653 226.80	1654 524.14	1655 821.50	1657 118.88
139 25 00	1644 406.48	1645 713.39	1647 020.33	1648 327.30	1649 634.30
139 27 30	1636 883.88	1638 200.40	1639 516.94	1640 833.52	1642 150.13
139 30 00	1629 361.68	1630 687.80	1632 013.95	1633 340.14	1634 666.36
139 32 30	1621 839.89	1623 175.61	1624 511.37	1625 847.17	1627 183.00
139 35 00	1614 318.51	1615 663.84	1617 009.21	1618 354.61	1619 700.05
139 37 30	1606 797.53	1608 152.47	1609 507.45	1610 862.47	1612 217.52
139 40 00	1599 276.98	1600 641.52	1602 006.11	1603 370.73	1604 735.40
139 42 30	1591 756.85	1593 131.00	1594 505.19	1595 879.44	1597 253.71
139 45 00	1584 237.13	1585 620.89	1587 004.70	1588 388.55	1589 772.44
139 47 30	1576 717.84	1578 111.20	1579 504.62	1580 898.08	1582 291.59
139 50 00	1569 198.97	1570 601.94	1572 004.98	1573 408.05	1574 811.18
139 52 30	1561 680.53	1563 093.11	1564 505.76	1565 918.44	1567 331.18
139 55 00	1554 162.52	1555 584.71	1557 006.97	1558 429.27	1559 851.63
139 57 30	1546 644.94	1548 076.75	1549 508.62	1550 940.54	1552 372.51
140 00 00	1539 127.80	1540 569.22	1542 010.70	1543 452.24	1544 893.83
140 02 30	1531 611.10	1533 062.13	1534 513.23	1535 964.38	1537 415.58
140 05 00	1524 094.84	1525 555.49	1527 016.19	1528 476.96	1529 937.79
140 07 30	1516 579.02	1518 049.28	1519 519.60	1520 989.99	1522 460.43
140 10 00	1509 063.64	1510 543.51	1512 023.45	1513 503.46	1514 983.52
140 12 30	1501 548.73	1503 038.21	1504 527.77	1506 017.38	1507 507.07
140 15 00	1494 034.25	1495 533.35	1497 032.52	1498 531.76	1500 031.06
140 17 30	1486 520.23	1488 028.94	1489 537.73	1491 046.59	1492 555.51
140 20 00	1479 006.67	1480 525.00	1482 043.40	1483 561.88	1485 080.43
140 22 30	1471 493.56	1473 021.51	1474 549.53	1476 077.63	1477 605.80
140 25 00	1463 980.92	1465 518.48	1467 056.12	1468 593.84	1470 131.63
140 27 30	1456 468.74	1458 015.92	1459 563.18	1461 110.52	1462 657.93
140 30 00	1448 957.03	1450 513.82	1452 070.70	1453 627.66	1455 184.70
140 32 30	1441 445.78	1443 012.19	1444 578.70	1446 145.28	1447 711.94
140 35 00	1433 935.00	1435 511.04	1437 087.16	1438 663.37	1440 239.65
140 37 30	1426 424.70	1428 010.36	1429 596.10	1431 181.93	1432 767.84
140 40 00	1418 914.88	1420 510.15	1422 105.52	1423 700.97	1425 296.51
140 42 30	1411 405.53	1413 010.43	1414 615.42	1416 220.49	1417 825.66
140 45 00	1403 896.66	1405 511.18	1407 125.80	1408 740.50	1410 355.29
140 47 30	1396 388.29	1398 012.43	1399 636.67	1401 260.99	1402 885.41
140 50 00	1388 880.39	1390 514.15	1392 148.02	1393 781.97	1395 416.01
140 52 30	1381 372.99	1383 016.37	1384 659.86	1386 303.44	1387 947.11
140 55 00	1373 866.08	1375 519.09	1377 172.20	1378 825.41	1380 478.71
140 57 30	1366 359.67	1368 022.30	1369 685.03	1371 347.86	1373 010.80
141 00 00	1358 853.74	1360 526.00	1362 198.36	1363 870.82	1365 543.38
141 02 30	1351 348.33	1353 030.20	1354 712.19	1356 394.28	1358 076.47
141 05 00	1343 843.41	1345 534.91	1347 226.52	1348 918.25	1350 610.07
141 07 30	1336 338.99	1338 040.12	1339 741.36	1341 442.71	1343 144.16
141 10 00	1328 835.09	1330 545.85	1332 256.72	1333 967.69	1335 678.78
141 12 30	1321 331.69	1323 052.08	1324 772.57	1326 493.18	1328 213.90
141 15 00	1313 828.81	1315 558.82	1317 288.94	1319 019.19	1320 749.53
141 17 30	1306 326.44	1308 066.08	1309 805.84	1311 545.71	1313 285.69
141 20 00	1298 824.59	1300 573.86	1302 323.25	1304 072.75	1305 822.37
141 22 30	1291 323.26	1293 082.15	1294 841.17	1296 600.31	1298 359.56
141 25 00	1283 822.46	1285 590.98	1287 359.63	1289 128.40	1290 897.28
141 27 30	1276 322.17	1278 100.33	1279 878.61	1281 657.01	1283 435.53
141 30 00	1268 822.42	1270 610.20	1272 398.11	1274 186.15	1275 974.31

Second-difference corrections to x for indicated values of k and h.

k	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	-.02	-.04	-.05	-.06	-.06

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	-.01	-.01	-.01	-.01

ALASKA-ZONE 1
STATE PLANE COORDINATES
Y – FEET

λ \ φ	60 20 00	60 22 30	60 25 00	60 27 30	60 30 00
139 00 00	3143 483.19	3158 664.80	3173 846.51	3189 028.30	3204 210.20
139 02 30	3144 085.91	3159 266.75	3174 447.69	3189 628.71	3204 809.84
139 05 00	3144 693.38	3159 873.45	3175 053.62	3190 233.88	3205 414.22
139 07 30	3145 305.62	3160 484.91	3175 664.30	3190 843.78	3206 023.34
139 10 00	3145 922.61	3161 101.12	3176 279.73	3191 458.42	3206 637.20
139 12 30	3146 544.36	3161 722.09	3176 899.91	3192 077.80	3207 255.79
139 15 00	3147 170.87	3162 347.81	3177 524.84	3192 701.94	3207 879.13
139 17 30	3147 802.14	3162 978.28	3178 154.51	3193 330.81	3208 507.20
139 20 00	3148 438.17	3163 613.51	3178 788.93	3193 964.43	3209 140.02
139 22 30	3149 078.96	3164 253.49	3179 428.11	3194 602.80	3209 777.57
139 25 00	3149 724.51	3164 898.23	3180 072.04	3195 245.91	3210 419.87
139 27 30	3150 374.82	3165 547.73	3180 720.72	3195 893.77	3211 066.90
139 30 00	3151 029.89	3166 201.98	3181 374.14	3196 546.37	3211 718.67
139 32 30	3151 689.72	3166 860.99	3182 032.33	3197 203.72	3212 375.19
139 35 00	3152 354.32	3167 524.75	3182 695.26	3197 865.82	3213 036.45
139 37 30	3153 023.68	3168 193.27	3183 362.94	3198 532.66	3213 702.45
139 40 00	3153 697.80	3168 866.55	3184 035.37	3199 204.25	3214 373.19
139 42 30	3154 376.68	3169 544.59	3184 712.56	3199 880.58	3215 048.67
139 45 00	3155 060.32	3170 227.38	3185 394.50	3200 561.67	3215 728.90
139 47 30	3155 748.73	3170 914.93	3186 081.19	3201 247.50	3216 413.87
139 50 00	3156 441.91	3171 607.24	3186 772.64	3201 938.08	3217 103.58
139 52 30	3157 139.84	3172 304.31	3187 468.84	3202 633.41	3217 798.03
139 55 00	3157 842.54	3173 006.14	3188 169.79	3203 333.49	3218 497.23
139 57 30	3158 550.01	3173 712.73	3188 875.50	3204 038.31	3219 201.17
140 00 00	3159 262.23	3174 424.07	3189 585.96	3204 747.89	3219 909.86
140 02 30	3159 979.22	3175 140.18	3190 301.18	3205 462.21	3220 623.29
140 05 00	3160 700.98	3175 861.05	3191 021.14	3206 181.28	3221 341.46
140 07 30	3161 427.51	3176 586.67	3191 745.87	3206 905.10	3222 064.38
140 10 00	3162 158.80	3177 317.05	3192 475.35	3207 633.68	3222 792.05
140 12 30	3162 894.85	3178 052.20	3193 209.59	3208 367.00	3223 524.45
140 15 00	3163 635.67	3178 792.11	3193 948.58	3209 105.08	3224 261.61
140 17 30	3164 381.25	3179 536.78	3194 692.33	3209 847.90	3225 003.51
140 20 00	3165 131.61	3180 286.20	3195 440.83	3210 595.48	3225 750.15
140 22 30	3165 886.73	3181 040.40	3196 194.10	3211 347.81	3226 501.54
140 25 00	3166 646.62	3181 799.35	3196 952.11	3212 104.89	3227 257.69
140 27 30	3167 411.27	3182 563.07	3197 714.89	3212 866.72	3228 018.57
140 30 00	3168 180.69	3183 331.55	3198 482.42	3213 633.30	3228 784.21
140 32 30	3168 954.89	3184 104.79	3199 254.71	3214 404.64	3229 554.58
140 35 00	3169 733.85	3184 882.80	3200 031.76	3215 180.73	3230 329.72
140 37 30	3170 517.58	3185 665.56	3200 813.57	3215 961.57	3231 109.59
140 40 00	3171 306.07	3186 453.10	3201 600.13	3216 747.17	3231 894.22
140 42 30	3172 099.34	3187 245.39	3202 391.46	3217 537.52	3232 683.58
140 45 00	3172 897.37	3188 042.45	3203 187.54	3218 332.62	3233 477.71
140 47 30	3173 700.18	3188 844.28	3203 988.38	3219 132.48	3234 276.58
140 50 00	3174 507.75	3189 650.87	3204 793.98	3219 937.09	3235 080.19
140 52 30	3175 320.10	3190 462.22	3205 604.34	3220 746.45	3235 888.56
140 55 00	3176 137.22	3191 278.34	3206 419.47	3221 560.58	3236 701.68
140 57 30	3176 959.11	3192 099.22	3207 239.35	3222 379.45	3237 519.55
141 00 00	3177 785.76	3192 924.88	3208 063.99	3223 203.08	3238 342.17
141 02 30	3178 617.19	3193 755.29	3208 893.40	3224 031.47	3239 169.54
141 05 00	3179 453.39	3194 590.47	3209 727.56	3224 864.61	3240 001.65
141 07 30	3180 294.36	3195 430.42	3210 566.48	3225 702.51	3240 838.52
141 10 00	3181 140.10	3196 275.14	3211 410.17	3226 545.16	3241 680.14
141 12 30	3181 990.62	3197 124.63	3212 258.61	3227 392.57	3242 526.51
141 15 00	3182 845.90	3197 978.88	3213 111.83	3228 244.74	3243 377.64
141 17 30	3183 705.97	3198 837.90	3213 969.80	3229 101.67	3244 233.52
141 20 00	3184 570.80	3199 701.68	3214 832.54	3229 963.35	3245 094.14
141 22 30	3185 440.41	3200 570.24	3215 700.03	3230 829.79	3245 959.52
141 25 00	3186 314.79	3201 443.56	3216 572.29	3231 700.98	3246 829.65
141 27 30	3187 193.94	3202 321.65	3217 449.32	3232 576.94	3247 704.54
141 30 00	3188 077.88	3203 204.51	3218 331.11	3233 457.66	3248 584.18

Second-difference corrections to y for indicated values of k and h.

k	0" 150"	5" 145"	10" 140"	15" 135"	20" 130"	25" 125"	30" 120"	35" 115"	40" 110"	45" 105"	50" 100"	55" 95"	60" 90"	65" 85"	70" 80"	75" 75"
Correction	0	-.08	-.15	-.21	-.27	-.33	-.38	-.42	-.46	-.50	-.53	-.55	-.57	-.58	-.59	-.59

h	0" 150"	15" 135"	30" 120"	45" 105"	60" 90"	75" 75"
Correction	0	0	0	0	0	0

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	54 30 00	54 32 30	54 35 00	54 37 30	54 40 00
129 30 00	3 25 52.2	3 25 53.2	3 25 54.4	3 25 55.5	3 25 56.8
129 32 30	3 23 50.4	3 23 51.5	3 23 52.6	3 23 53.7	3 23 54.9
129 35 00	3 21 48.7	3 21 49.7	3 21 50.7	3 21 51.8	3 21 53.0
129 37 30	3 19 46.9	3 19 47.9	3 19 48.9	3 19 49.9	3 19 51.0
129 40 00	3 17 45.2	3 17 46.1	3 17 47.0	3 17 48.0	3 17 49.1
129 42 30	3 15 43.4	3 15 44.2	3 15 45.1	3 15 46.1	3 15 47.1
129 45 00	3 13 41.6	3 13 42.4	3 13 43.3	3 13 44.2	3 13 45.1
129 47 30	3 11 39.8	3 11 40.5	3 11 41.3	3 11 42.2	3 11 43.1
129 50 00	3 09 37.9	3 09 38.6	3 09 39.4	3 09 40.2	3 09 41.1
129 52 30	3 07 36.1	3 07 36.7	3 07 37.5	3 07 38.3	3 07 39.1
129 55 00	3 05 34.2	3 05 34.8	3 05 35.5	3 05 36.2	3 05 37.0
129 57 30	3 03 32.3	3 03 32.9	3 03 33.5	3 03 34.2	3 03 35.0
130 00 00	3 01 30.4	3 01 30.9	3 01 31.5	3 01 32.2	3 01 32.9
130 02 30	2 59 28.5	2 59 29.0	2 59 29.5	2 59 30.1	2 59 30.8
130 05 00	2 57 26.5	2 57 27.0	2 57 27.5	2 57 28.1	2 57 28.7
130 07 30	2 55 24.6	2 55 25.0	2 55 25.5	2 55 26.0	2 55 26.5
130 10 00	2 53 22.6	2 53 23.0	2 53 23.4	2 53 23.9	2 53 24.4
130 12 30	2 51 20.6	2 51 20.9	2 51 21.3	2 51 21.7	2 51 22.2
130 15 00	2 49 18.6	2 49 18.9	2 49 19.2	2 49 19.6	2 49 20.0
130 17 30	2 47 16.6	2 47 16.8	2 47 17.1	2 47 17.5	2 47 17.8
130 20 00	2 45 14.5	2 45 14.7	2 45 15.0	2 45 15.3	2 45 15.6
130 22 30	2 43 12.5	2 43 12.6	2 43 12.8	2 43 13.1	2 43 13.4
130 25 00	2 41 10.4	2 41 10.5	2 41 10.7	2 41 10.9	2 41 11.2
130 27 30	2 39 08.3	2 39 08.4	2 39 08.5	2 39 08.7	2 39 08.9
130 30 00	2 37 06.2	2 37 06.2	2 37 06.3	2 37 06.4	2 37 06.6
130 32 30	2 35 04.1	2 35 04.1	2 35 04.1	2 35 04.2	2 35 04.3
130 35 00	2 33 01.9	2 33 01.9	2 33 01.9	2 33 01.9	2 33 02.0
130 37 30	2 30 59.8	2 30 59.7	2 30 59.6	2 30 59.6	2 30 59.7
130 40 00	2 28 57.6	2 28 57.4	2 28 57.3	2 28 57.3	2 28 57.3
130 42 30	2 26 55.4	2 26 55.2	2 26 55.1	2 26 55.0	2 26 54.9
130 45 00	2 24 53.2	2 24 52.9	2 24 52.8	2 24 52.6	2 24 52.5
130 47 30	2 22 50.9	2 22 50.7	2 22 50.4	2 22 50.3	2 22 50.1
130 50 00	2 20 48.7	2 20 48.4	2 20 48.1	2 20 47.9	2 20 47.7
130 52 30	2 18 46.4	2 18 46.1	2 18 45.8	2 18 45.5	2 18 45.3
130 55 00	2 16 44.2	2 16 43.7	2 16 43.4	2 16 43.1	2 16 42.8
130 57 30	2 14 41.9	2 14 41.4	2 14 41.0	2 14 40.7	2 14 40.4
131 00 00	2 12 39.5	2 12 39.0	2 12 38.6	2 12 38.2	2 12 37.9
131 02 30	2 10 37.2	2 10 36.7	2 10 36.2	2 10 35.8	2 10 35.4
131 05 00	2 08 34.8	2 08 34.3	2 08 33.7	2 08 33.3	2 08 32.8
131 07 30	2 06 32.5	2 06 31.9	2 06 31.3	2 06 30.8	2 06 30.3
131 10 00	2 04 30.1	2 04 29.4	2 04 28.8	2 04 28.3	2 04 27.8
131 12 30	2 02 27.7	2 02 27.0	2 02 26.3	2 02 25.7	2 02 25.2
131 15 00	2 00 25.3	2 00 24.5	2 00 23.8	2 00 23.2	2 00 22.6
131 17 30	1 58 22.8	1 58 22.0	1 58 21.3	1 58 20.6	1 58 20.0
131 20 00	1 56 20.4	1 56 19.5	1 56 18.8	1 56 18.0	1 56 17.4
131 22 30	1 54 17.9	1 54 17.0	1 54 16.2	1 54 15.4	1 54 14.7
131 25 00	1 52 15.4	1 52 14.5	1 52 13.6	1 52 12.8	1 52 12.0
131 27 30	1 50 12.9	1 50 11.9	1 50 11.0	1 50 10.2	1 50 09.4
131 30 00	1 48 10.4	1 48 09.4	1 48 08.4	1 48 07.5	1 48 06.7
131 32 30	1 46 07.8	1 46 06.8	1 46 05.8	1 46 04.8	1 46 04.0
131 35 00	1 44 05.3	1 44 04.2	1 44 03.1	1 44 02.2	1 44 01.2
131 37 30	1 42 02.7	1 42 01.5	1 42 00.5	1 41 59.5	1 41 58.5
131 40 00	1 40 00.1	1 39 58.9	1 39 57.8	1 39 56.7	1 39 55.7
131 42 30	1 37 57.5	1 37 56.2	1 37 55.1	1 37 54.0	1 37 52.9
131 45 00	1 35 54.8	1 35 53.6	1 35 52.4	1 35 51.2	1 35 50.1
131 47 30	1 33 52.2	1 33 50.9	1 33 49.6	1 33 48.5	1 33 47.3
131 50 00	1 31 49.5	1 31 48.2	1 31 46.9	1 31 45.7	1 31 44.5
131 52 30	1 29 46.8	1 29 45.4	1 29 44.1	1 29 42.8	1 29 41.6
131 55 00	1 27 44.1	1 27 42.7	1 27 41.3	1 27 40.0	1 27 38.8
131 57 30	1 25 41.4	1 25 39.9	1 25 38.5	1 25 37.2	1 25 35.9
132 00 00	1 23 38.6	1 23 37.1	1 23 35.7	1 23 34.3	1 23 33.0

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	54 30 00	54 32 30	54 35 00	54 37 30	54 40 00
129 30 00	0.9999356	0.9999390	0.9999426	0.9999464	0.9999503
129 32 30	0.9999327	0.9999360	0.9999395	0.9999431	0.9999469
129 35 00	0.9999299	0.9999331	0.9999364	0.9999399	0.9999435
129 37 30	0.9999273	0.9999303	0.9999335	0.9999368	0.9999403
129 40 00	0.9999247	0.9999276	0.9999307	0.9999339	0.9999372
129 42 30	0.9999223	0.9999251	0.9999280	0.9999310	0.9999343
129 45 00	0.9999200	0.9999226	0.9999254	0.9999283	0.9999314
129 47 30	0.9999179	0.9999203	0.9999230	0.9999258	0.9999287
129 50 00	0.9999159	0.9999182	0.9999207	0.9999233	0.9999261
129 52 30	0.9999139	0.9999161	0.9999185	0.9999210	0.9999237
129 55 00	0.9999122	0.9999142	0.9999164	0.9999188	0.9999213
129 57 30	0.9999105	0.9999124	0.9999145	0.9999167	0.9999191
130 00 00	0.9999090	0.9999107	0.9999127	0.9999148	0.9999170
130 02 30	0.9999076	0.9999092	0.9999110	0.9999129	0.9999151
130 05 00	0.9999063	0.9999078	0.9999094	0.9999112	0.9999132
130 07 30	0.9999051	0.9999065	0.9999080	0.9999096	0.9999115
130 10 00	0.9999041	0.9999053	0.9999066	0.9999082	0.9999099
130 12 30	0.9999032	0.9999042	0.9999054	0.9999068	0.9999084
130 15 00	0.9999024	0.9999033	0.9999044	0.9999056	0.9999070
130 17 30	0.9999017	0.9999025	0.9999034	0.9999045	0.9999058
130 20 00	0.9999011	0.9999018	0.9999026	0.9999036	0.9999047
130 22 30	0.9999007	0.9999012	0.9999019	0.9999027	0.9999037
130 25 00	0.9999004	0.9999008	0.9999013	0.9999020	0.9999028
130 27 30	0.9999002	0.9999004	0.9999008	0.9999014	0.9999021
130 30 00	0.9999002	0.9999002	0.9999005	0.9999009	0.9999015
130 32 30	0.9999002	0.9999002	0.9999003	0.9999005	0.9999010
130 35 00	0.9999004	0.9999002	0.9999002	0.9999003	0.9999006
130 37 30	0.9999007	0.9999004	0.9999002	0.9999002	0.9999003
130 40 00	0.9999012	0.9999007	0.9999003	0.9999002	0.9999002
130 42 30	0.9999017	0.9999011	0.9999006	0.9999003	0.9999001
130 45 00	0.9999024	0.9999016	0.9999010	0.9999005	0.9999002
130 47 30	0.9999032	0.9999022	0.9999015	0.9999009	0.9999005
130 50 00	0.9999041	0.9999030	0.9999021	0.9999014	0.9999008
130 52 30	0.9999051	0.9999039	0.9999029	0.9999020	0.9999013
130 55 00	0.9999063	0.9999049	0.9999037	0.9999027	0.9999018
130 57 30	0.9999076	0.9999060	0.9999047	0.9999035	0.9999025
131 00 00	0.9999090	0.9999073	0.9999058	0.9999045	0.9999034
131 02 30	0.9999105	0.9999087	0.9999070	0.9999056	0.9999043
131 05 00	0.9999121	0.9999102	0.9999084	0.9999068	0.9999054
131 07 30	0.9999139	0.9999118	0.9999099	0.9999081	0.9999065
131 10 00	0.9999157	0.9999135	0.9999114	0.9999096	0.9999078
131 12 30	0.9999177	0.9999154	0.9999131	0.9999111	0.9999092
131 15 00	0.9999199	0.9999173	0.9999150	0.9999128	0.9999108
131 17 30	0.9999221	0.9999194	0.9999169	0.9999146	0.9999124
131 20 00	0.9999244	0.9999216	0.9999190	0.9999165	0.9999142
131 22 30	0.9999269	0.9999240	0.9999212	0.9999185	0.9999161
131 25 00	0.9999295	0.9999264	0.9999235	0.9999207	0.9999181
131 27 30	0.9999322	0.9999290	0.9999259	0.9999230	0.9999202
131 30 00	0.9999350	0.9999316	0.9999284	0.9999254	0.9999225
131 32 30	0.9999380	0.9999344	0.9999311	0.9999279	0.9999248
131 35 00	0.9999411	0.9999374	0.9999338	0.9999305	0.9999273
131 37 30	0.9999442	0.9999404	0.9999367	0.9999332	0.9999299
131 40 00	0.9999476	0.9999436	0.9999397	0.9999361	0.9999326
131 42 30	0.9999510	0.9999468	0.9999429	0.9999391	0.9999355
131 45 00	0.9999545	0.9999502	0.9999461	0.9999422	0.9999384
131 47 30	0.9999582	0.9999537	0.9999495	0.9999454	0.9999415
131 50 00	0.9999619	0.9999574	0.9999529	0.9999487	0.9999446
131 52 30	0.9999658	0.9999611	0.9999565	0.9999522	0.9999479
131 55 00	0.9999698	0.9999650	0.9999602	0.9999557	0.9999514
131 57 30	0.9999740	0.9999689	0.9999641	0.9999594	0.9999549
132 00 00	0.9999782	0.9999730	0.9999680	0.9999632	0.9999585

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	54 30 00	54 32 30	54 35 00	54 37 30	54 40 00
132 00 00	1 23 38.6	1 23 37.1	1 23 35.7	1 23 34.3	1 23 33.0
132 02 30	1 21 35.9	1 21 34.3	1 21 32.9	1 21 31.4	1 21 30.0
132 05 00	1 19 33.1	1 19 31.5	1 19 30.0	1 19 28.5	1 19 27.1
132 07 30	1 17 30.3	1 17 28.7	1 17 27.1	1 17 25.6	1 17 24.1
132 10 00	1 15 27.5	1 15 25.8	1 15 24.2	1 15 22.7	1 15 21.2
132 12 30	1 13 24.7	1 13 23.0	1 13 21.3	1 13 19.7	1 13 18.2
132 15 00	1 11 21.8	1 11 20.1	1 11 18.4	1 11 16.7	1 11 15.1
132 17 30	1 09 18.9	1 09 17.2	1 09 15.4	1 09 13.7	1 09 12.1
132 20 00	1 07 16.1	1 07 14.2	1 07 12.5	1 07 10.7	1 07 09.1
132 22 30	1 05 13.2	1 05 11.3	1 05 09.5	1 05 07.7	1 05 06.0
132 25 00	1 03 10.2	1 03 08.3	1 03 06.5	1 03 04.7	1 03 02.9
132 27 30	1 01 07.3	1 01 05.3	1 01 03.4	1 01 01.6	1 00 59.8
132 30 00	0 59 04.3	0 59 02.3	0 59 00.4	0 58 58.5	0 58 56.7
132 32 30	0 57 01.4	0 56 59.3	0 56 57.3	0 56 55.4	0 56 53.5
132 35 00	0 54 58.4	0 54 56.3	0 54 54.3	0 54 52.3	0 54 50.4
132 37 30	0 52 55.4	0 52 53.2	0 52 51.2	0 52 49.2	0 52 47.2
132 40 00	0 50 52.3	0 50 50.2	0 50 48.1	0 50 46.0	0 50 44.0
132 42 30	0 48 49.3	0 48 47.1	0 48 44.9	0 48 42.8	0 48 40.8
132 45 00	0 46 46.2	0 46 44.0	0 46 41.8	0 46 39.7	0 46 37.6
132 47 30	0 44 43.1	0 44 40.8	0 44 38.6	0 44 36.5	0 44 34.3
132 50 00	0 42 40.0	0 42 37.7	0 42 35.4	0 42 33.2	0 42 31.1
132 52 30	0 40 36.9	0 40 34.5	0 40 32.2	0 40 30.0	0 40 27.8
132 55 00	0 38 33.7	0 38 31.4	0 38 29.0	0 38 26.7	0 38 24.5
132 57 30	0 36 30.6	0 36 28.2	0 36 25.8	0 36 23.4	0 36 21.2
133 00 00	0 34 27.4	0 34 24.9	0 34 22.5	0 34 20.1	0 34 17.8
133 02 30	0 32 24.2	0 32 21.7	0 32 19.2	0 32 16.8	0 32 14.5
133 05 00	0 30 21.0	0 30 18.4	0 30 15.9	0 30 13.5	0 30 11.1
133 07 30	0 28 17.8	0 28 15.2	0 28 12.6	0 28 10.1	0 28 07.7
133 10 00	0 26 14.5	0 26 11.9	0 26 09.3	0 26 06.8	0 26 04.3
133 12 30	0 24 11.2	0 24 08.6	0 24 05.9	0 24 03.4	0 24 00.9
133 15 00	0 22 08.0	0 22 05.2	0 22 02.6	0 21 60.0	0 21 57.4
133 17 30	0 20 04.6	0 20 01.9	0 19 59.2	0 19 56.5	0 19 53.9
133 20 00	0 18 01.3	0 17 58.5	0 17 55.8	0 17 53.1	0 17 50.5
133 22 30	0 15 58.0	0 15 55.1	0 15 52.4	0 15 49.6	0 15 47.0
133 25 00	0 13 54.6	0 13 51.7	0 13 48.9	0 13 46.2	0 13 43.4
133 27 30	0 11 51.2	0 11 48.3	0 11 45.5	0 11 42.6	0 11 39.9
133 30 00	0 09 47.8	0 09 44.9	0 09 42.0	0 09 39.1	0 09 36.3
133 32 30	0 07 44.4	0 07 41.4	0 07 38.5	0 07 35.6	0 07 32.8
133 35 00	0 05 41.0	0 05 37.9	0 05 35.0	0 05 32.0	0 05 29.2
133 37 30	0 03 37.5	0 03 34.4	0 03 31.4	0 03 28.5	0 03 25.5
133 40 00	0 01 34.0	0 01 30.9	0 01 27.9	0 01 24.9	0 01 21.9
133 42 30	- 0 00 29.5	- 0 00 32.6	- 0 00 35.7	- 0 00 38.7	- 0 00 41.7
133 45 00	- 0 02 33.0	- 0 02 36.2	- 0 02 39.3	- 0 02 42.4	- 0 02 45.4
133 47 30	- 0 04 36.5	- 0 04 39.7	- 0 04 42.9	- 0 04 46.0	- 0 04 49.1
133 50 00	- 0 06 40.1	- 0 06 43.3	- 0 06 46.5	- 0 06 49.7	- 0 06 52.8
133 52 30	- 0 08 43.6	- 0 08 46.9	- 0 08 50.2	- 0 08 53.4	- 0 08 56.5
133 55 00	- 0 10 47.2	- 0 10 50.6	- 0 10 53.8	- 0 10 57.1	- 0 11 00.3
133 57 30	- 0 12 50.8	- 0 12 54.2	- 0 12 57.5	- 0 13 00.8	- 0 13 04.0
134 00 00	- 0 14 54.4	- 0 14 57.9	- 0 15 01.2	- 0 15 04.6	- 0 15 07.8
134 02 30	- 0 16 58.1	- 0 17 01.6	- 0 17 05.0	- 0 17 08.3	- 0 17 11.6
134 05 00	- 0 19 01.8	- 0 19 05.3	- 0 19 08.7	- 0 19 12.1	- 0 19 15.4
134 07 30	- 0 21 05.4	- 0 21 09.0	- 0 21 12.5	- 0 21 15.9	- 0 21 19.3
134 10 00	- 0 23 09.1	- 0 23 12.7	- 0 23 16.2	- 0 23 19.7	- 0 23 23.1
134 12 30	- 0 25 12.9	- 0 25 16.5	- 0 25 20.0	- 0 25 23.5	- 0 25 27.0
134 15 00	- 0 27 16.6	- 0 27 20.3	- 0 27 23.9	- 0 27 27.4	- 0 27 30.9
134 17 30	- 0 29 20.4	- 0 29 24.1	- 0 29 27.7	- 0 29 31.3	- 0 29 34.8
134 20 00	- 0 31 24.1	- 0 31 27.9	- 0 31 31.6	- 0 31 35.2	- 0 31 38.7
134 22 30	- 0 33 27.9	- 0 33 31.7	- 0 33 35.4	- 0 33 39.1	- 0 33 42.7
134 25 00	- 0 35 31.8	- 0 35 35.6	- 0 35 39.3	- 0 35 43.0	- 0 35 46.7
134 27 30	- 0 37 35.6	- 0 37 39.4	- 0 37 43.2	- 0 37 47.0	- 0 37 50.7
134 30 00	- 0 39 39.5	- 0 39 43.3	- 0 39 47.2	- 0 39 50.9	- 0 39 54.7

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	54 30 00	54 32 30	54 35 00	54 37 30	54 40 00
132 00 00	0.9999782	0.9999730	0.9999680	0.9999632	0.9999585
132 02 30	0.9999826	0.9999772	0.9999721	0.9999671	0.9999623
132 05 00	0.9999870	0.9999816	0.9999763	0.9999711	0.9999662
132 07 30	0.9999916	0.9999860	0.9999805	0.9999753	0.9999702
132 10 00	0.9999963	0.9999906	0.9999850	0.9999795	0.9999743
132 12 30	1.0000012	0.9999952	0.9999895	0.9999839	0.9999785
132 15 00	1.0000061	1.0000000	0.9999941	0.9999884	0.9999828
132 17 30	1.0000112	1.0000049	0.9999989	0.9999930	0.9999873
132 20 00	1.0000163	1.0000099	1.0000037	0.9999977	0.9999919
132 22 30	1.0000216	1.0000151	1.0000087	1.0000026	0.9999966
132 25 00	1.0000270	1.0000203	1.0000138	1.0000075	1.0000014
132 27 30	1.0000325	1.0000257	1.0000190	1.0000126	1.0000063
132 30 00	1.0000382	1.0000312	1.0000244	1.0000177	1.0000113
132 32 30	1.0000439	1.0000368	1.0000298	1.0000230	1.0000164
132 35 00	1.0000498	1.0000425	1.0000354	1.0000284	1.0000217
132 37 30	1.0000558	1.0000483	1.0000410	1.0000340	1.0000271
132 40 00	1.0000618	1.0000542	1.0000468	1.0000396	1.0000326
132 42 30	1.0000681	1.0000603	1.0000527	1.0000454	1.0000381
132 45 00	1.0000744	1.0000665	1.0000587	1.0000512	1.0000439
132 47 30	1.0000808	1.0000727	1.0000649	1.0000572	1.0000497
132 50 00	1.0000874	1.0000791	1.0000711	1.0000633	1.0000556
132 52 30	1.0000940	1.0000857	1.0000775	1.0000695	1.0000617
132 55 00	1.0001008	1.0000923	1.0000839	1.0000758	1.0000678
132 57 30	1.0001077	1.0000990	1.0000905	1.0000822	1.0000741
133 00 00	1.0001147	1.0001059	1.0000972	1.0000888	1.0000805
133 02 30	1.0001218	1.0001128	1.0001040	1.0000954	1.0000870
133 05 00	1.0001290	1.0001199	1.0001109	1.0001022	1.0000936
133 07 30	1.0001364	1.0001271	1.0001180	1.0001091	1.0001003
133 10 00	1.0001438	1.0001344	1.0001251	1.0001161	1.0001072
133 12 30	1.0001514	1.0001418	1.0001324	1.0001232	1.0001141
133 15 00	1.0001590	1.0001493	1.0001397	1.0001304	1.0001212
133 17 30	1.0001668	1.0001569	1.0001472	1.0001377	1.0001284
133 20 00	1.0001747	1.0001647	1.0001548	1.0001451	1.0001356
133 22 30	1.0001828	1.0001725	1.0001625	1.0001527	1.0001430
133 25 00	1.0001909	1.0001805	1.0001703	1.0001603	1.0001505
133 27 30	1.0001991	1.0001886	1.0001783	1.0001681	1.0001582
133 30 00	1.0002075	1.0001968	1.0001863	1.0001760	1.0001659
133 32 30	1.0002159	1.0002051	1.0001944	1.0001840	1.0001737
133 35 00	1.0002245	1.0002135	1.0002027	1.0001921	1.0001817
133 37 30	1.0002332	1.0002220	1.0002111	1.0002003	1.0001897
133 40 00	1.0002420	1.0002307	1.0002195	1.0002086	1.0001979
133 42 30	1.0002509	1.0002394	1.0002281	1.0002171	1.0002062
133 45 00	1.0002599	1.0002483	1.0002368	1.0002256	1.0002146
133 47 30	1.0002690	1.0002572	1.0002456	1.0002343	1.0002231
133 50 00	1.0002782	1.0002663	1.0002546	1.0002430	1.0002317
133 52 30	1.0002876	1.0002755	1.0002636	1.0002519	1.0002404
133 55 00	1.0002970	1.0002848	1.0002727	1.0002609	1.0002492
133 57 30	1.0003066	1.0002942	1.0002820	1.0002700	1.0002581
134 00 00	1.0003163	1.0003037	1.0002913	1.0002792	1.0002672
134 02 30	1.0003260	1.0003133	1.0003008	1.0002885	1.0002763
134 05 00	1.0003359	1.0003231	1.0003104	1.0002979	1.0002856
134 07 30	1.0003459	1.0003329	1.0003201	1.0003074	1.0002950
134 10 00	1.0003560	1.0003429	1.0003299	1.0003170	1.0003044
134 12 30	1.0003663	1.0003529	1.0003398	1.0003268	1.0003140
134 15 00	1.0003766	1.0003631	1.0003498	1.0003366	1.0003237
134 17 30	1.0003870	1.0003734	1.0003599	1.0003466	1.0003335
134 20 00	1.0003976	1.0003837	1.0003701	1.0003567	1.0003434
134 22 30	1.0004082	1.0003942	1.0003804	1.0003668	1.0003534
134 25 00	1.0004190	1.0004048	1.0003909	1.0003771	1.0003636
134 27 30	1.0004298	1.0004155	1.0004014	1.0003875	1.0003738
134 30 00	1.0004408	1.0004264	1.0004121	1.0003980	1.0003841

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	54 40 00	54 42 30	54 45 00	54 47 30	54 50 00
129 30 00	3 25 56.8	3 25 58.1	3 25 59.4	3 26 00.8	3 26 02.2
129 32 30	3 23 54.9	3 23 56.1	3 23 57.4	3 23 58.7	3 24 00.1
129 35 00	3 21 53.0	3 21 54.1	3 21 55.4	3 21 56.7	3 21 58.0
129 37 30	3 19 51.0	3 19 52.2	3 19 53.4	3 19 54.6	3 19 55.9
129 40 00	3 17 49.1	3 17 50.2	3 17 51.3	3 17 52.5	3 17 53.8
129 42 30	3 15 47.1	3 15 48.2	3 15 49.3	3 15 50.4	3 15 51.6
129 45 00	3 13 45.1	3 13 46.1	3 13 47.2	3 13 48.3	3 13 49.5
129 47 30	3 11 43.1	3 11 44.1	3 11 45.1	3 11 46.2	3 11 47.3
129 50 00	3 09 41.1	3 09 42.0	3 09 43.0	3 09 44.0	3 09 45.1
129 52 30	3 07 39.1	3 07 40.0	3 07 40.9	3 07 41.9	3 07 42.9
129 55 00	3 05 37.0	3 05 37.9	3 05 38.8	3 05 39.7	3 05 40.7
129 57 30	3 03 35.0	3 03 35.8	3 03 36.6	3 03 37.5	3 03 38.4
130 00 00	3 01 32.9	3 01 33.6	3 01 34.4	3 01 35.3	3 01 36.2
130 02 30	2 59 30.8	2 59 31.5	2 59 32.2	2 59 33.1	2 59 33.9
130 05 00	2 57 28.7	2 57 29.3	2 57 30.0	2 57 30.8	2 57 31.6
130 07 30	2 55 26.5	2 55 27.2	2 55 27.8	2 55 28.5	2 55 29.3
130 10 00	2 53 24.4	2 53 25.0	2 53 25.6	2 53 26.3	2 53 27.0
130 12 30	2 51 22.2	2 51 22.8	2 51 23.3	2 51 24.0	2 51 24.7
130 15 00	2 49 20.0	2 49 20.5	2 49 21.1	2 49 21.7	2 49 22.3
130 17 30	2 47 17.8	2 47 18.3	2 47 18.8	2 47 19.3	2 47 19.9
130 20 00	2 45 15.6	2 45 16.0	2 45 16.5	2 45 17.0	2 45 17.5
130 22 30	2 43 13.4	2 43 13.8	2 43 14.2	2 43 14.6	2 43 15.1
130 25 00	2 41 11.2	2 41 11.5	2 41 11.8	2 41 12.2	2 41 12.7
130 27 30	2 39 08.9	2 39 09.2	2 39 09.5	2 39 09.8	2 39 10.3
130 30 00	2 37 06.6	2 37 06.8	2 37 07.1	2 37 07.4	2 37 07.8
130 32 30	2 35 04.3	2 35 04.5	2 35 04.7	2 35 05.0	2 35 05.3
130 35 00	2 33 02.0	2 33 02.1	2 33 02.3	2 33 02.6	2 33 02.9
130 37 30	2 30 59.7	2 30 59.7	2 30 59.9	2 31 00.1	2 31 00.3
130 40 00	2 28 57.3	2 28 57.4	2 28 57.5	2 28 57.6	2 28 57.8
130 42 30	2 26 54.9	2 26 54.9	2 26 55.0	2 26 55.1	2 26 55.3
130 45 00	2 24 52.5	2 24 52.5	2 24 52.5	2 24 52.6	2 24 52.7
130 47 30	2 22 50.1	2 22 50.1	2 22 50.0	2 22 50.1	2 22 50.2
130 50 00	2 20 47.7	2 20 47.6	2 20 47.5	2 20 47.5	2 20 47.6
130 52 30	2 18 45.3	2 18 45.1	2 18 45.0	2 18 45.0	2 18 45.0
130 55 00	2 16 42.8	2 16 42.6	2 16 42.5	2 16 42.4	2 16 42.3
130 57 30	2 14 40.4	2 14 40.1	2 14 39.9	2 14 39.8	2 14 39.7
131 00 00	2 12 37.9	2 12 37.6	2 12 37.4	2 12 37.2	2 12 37.0
131 02 30	2 10 35.4	2 10 35.0	2 10 34.8	2 10 34.5	2 10 34.4
131 05 00	2 08 32.8	2 08 32.5	2 08 32.2	2 08 31.9	2 08 31.7
131 07 30	2 06 30.3	2 06 29.9	2 06 29.5	2 06 29.2	2 06 29.0
131 10 00	2 04 27.8	2 04 27.3	2 04 26.9	2 04 26.5	2 04 26.2
131 12 30	2 02 25.2	2 02 24.7	2 02 24.2	2 02 23.8	2 02 23.5
131 15 00	2 00 22.6	2 00 22.0	2 00 21.6	2 00 21.1	2 00 20.7
131 17 30	1 58 20.0	1 58 19.4	1 58 18.9	1 58 18.4	1 58 18.0
131 20 00	1 56 17.4	1 56 16.7	1 56 16.2	1 56 15.6	1 56 15.2
131 22 30	1 54 14.7	1 54 14.0	1 54 13.4	1 54 12.9	1 54 12.3
131 25 00	1 52 12.0	1 52 11.3	1 52 10.7	1 52 10.1	1 52 09.5
131 27 30	1 50 09.4	1 50 08.6	1 50 07.9	1 50 07.3	1 50 06.7
131 30 00	1 48 06.7	1 48 05.9	1 48 05.1	1 48 04.4	1 48 03.8
131 32 30	1 46 04.0	1 46 03.1	1 46 02.3	1 46 01.6	1 46 00.9
131 35 00	1 44 01.2	1 44 00.4	1 43 59.5	1 43 58.8	1 43 58.0
131 37 30	1 41 58.5	1 41 57.6	1 41 56.7	1 41 55.9	1 41 55.1
131 40 00	1 39 55.7	1 39 54.8	1 39 53.8	1 39 53.0	1 39 52.2
131 42 30	1 37 52.9	1 37 51.9	1 37 51.0	1 37 50.1	1 37 49.2
131 45 00	1 35 50.1	1 35 49.1	1 35 48.1	1 35 47.2	1 35 46.3
131 47 30	1 33 47.3	1 33 46.2	1 33 45.2	1 33 44.2	1 33 43.3
131 50 00	1 31 44.5	1 31 43.4	1 31 42.3	1 31 41.3	1 31 40.3
131 52 30	1 29 41.6	1 29 40.5	1 29 39.3	1 29 38.3	1 29 37.3
131 55 00	1 27 38.8	1 27 37.5	1 27 36.4	1 27 35.3	1 27 34.2
131 57 30	1 25 35.9	1 25 34.6	1 25 33.4	1 25 32.3	1 25 31.2
132 00 00	1 23 33.0	1 23 31.7	1 23 30.4	1 23 29.2	1 23 28.1

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	54 40 00	54 42 30	54 45 00	54 47 30	54 50 00
129 30 00	0.9999503	0.9999544	0.9999586	0.9999630	0.9999676
129 32 30	0.9999469	0.9999508	0.9999549	0.9999592	0.9999636
129 35 00	0.9999435	0.9999473	0.9999513	0.9999554	0.9999597
129 37 30	0.9999403	0.9999440	0.9999478	0.9999518	0.9999560
129 40 00	0.9999372	0.9999408	0.9999445	0.9999483	0.9999523
129 42 30	0.9999343	0.9999377	0.9999412	0.9999449	0.9999488
129 45 00	0.9999314	0.9999347	0.9999381	0.9999417	0.9999454
129 47 30	0.9999287	0.9999318	0.9999351	0.9999386	0.9999422
129 50 00	0.9999261	0.9999291	0.9999323	0.9999356	0.9999390
129 52 30	0.9999237	0.9999265	0.9999295	0.9999327	0.9999360
129 55 00	0.9999213	0.9999240	0.9999269	0.9999299	0.9999331
129 57 30	0.9999191	0.9999217	0.9999244	0.9999273	0.9999304
130 00 00	0.9999170	0.9999195	0.9999220	0.9999248	0.9999277
130 02 30	0.9999151	0.9999173	0.9999198	0.9999224	0.9999252
130 05 00	0.9999132	0.9999154	0.9999177	0.9999201	0.9999228
130 07 30	0.9999115	0.9999135	0.9999157	0.9999180	0.9999205
130 10 00	0.9999099	0.9999118	0.9999138	0.9999160	0.9999183
130 12 30	0.9999084	0.9999101	0.9999120	0.9999141	0.9999163
130 15 00	0.9999070	0.9999086	0.9999104	0.9999123	0.9999144
130 17 30	0.9999058	0.9999073	0.9999089	0.9999106	0.9999126
130 20 00	0.9999047	0.9999060	0.9999075	0.9999091	0.9999109
130 22 30	0.9999037	0.9999049	0.9999062	0.9999077	0.9999094
130 25 00	0.9999028	0.9999039	0.9999051	0.9999064	0.9999079
130 27 30	0.9999021	0.9999030	0.9999040	0.9999052	0.9999066
130 30 00	0.9999015	0.9999022	0.9999031	0.9999042	0.9999054
130 32 30	0.9999010	0.9999016	0.9999023	0.9999033	0.9999044
130 35 00	0.9999006	0.9999010	0.9999017	0.9999025	0.9999034
130 37 30	0.9999003	0.9999006	0.9999011	0.9999018	0.9999026
130 40 00	0.9999002	0.9999003	0.9999007	0.9999012	0.9999019
130 42 30	0.9999001	0.9999002	0.9999004	0.9999007	0.9999013
130 45 00	0.9999002	0.9999001	0.9999002	0.9999004	0.9999008
130 47 30	0.9999005	0.9999002	0.9999001	0.9999002	0.9999005
130 50 00	0.9999008	0.9999004	0.9999002	0.9999001	0.9999002
130 52 30	0.9999013	0.9999007	0.9999004	0.9999002	0.9999001
130 55 00	0.9999018	0.9999012	0.9999006	0.9999003	0.9999001
130 57 30	0.9999025	0.9999017	0.9999011	0.9999006	0.9999003
131 00 00	0.9999034	0.9999024	0.9999016	0.9999010	0.9999005
131 02 30	0.9999043	0.9999032	0.9999022	0.9999015	0.9999009
131 05 00	0.9999054	0.9999041	0.9999030	0.9999021	0.9999014
131 07 30	0.9999065	0.9999051	0.9999039	0.9999028	0.9999020
131 10 00	0.9999078	0.9999063	0.9999049	0.9999037	0.9999027
131 12 30	0.9999092	0.9999076	0.9999060	0.9999047	0.9999035
131 15 00	0.9999108	0.9999089	0.9999073	0.9999058	0.9999045
131 17 30	0.9999124	0.9999105	0.9999086	0.9999070	0.9999056
131 20 00	0.9999142	0.9999121	0.9999101	0.9999084	0.9999067
131 22 30	0.9999161	0.9999138	0.9999117	0.9999098	0.9999081
131 25 00	0.9999181	0.9999157	0.9999134	0.9999114	0.9999095
131 27 30	0.9999202	0.9999177	0.9999153	0.9999131	0.9999110
131 30 00	0.9999225	0.9999198	0.9999172	0.9999149	0.9999127
131 32 30	0.9999248	0.9999220	0.9999193	0.9999168	0.9999145
131 35 00	0.9999273	0.9999243	0.9999215	0.9999188	0.9999164
131 37 30	0.9999299	0.9999268	0.9999238	0.9999210	0.9999184
131 40 00	0.9999326	0.9999293	0.9999262	0.9999233	0.9999205
131 42 30	0.9999355	0.9999320	0.9999287	0.9999257	0.9999227
131 45 00	0.9999384	0.9999348	0.9999314	0.9999282	0.9999251
131 47 30	0.9999415	0.9999377	0.9999342	0.9999308	0.9999276
131 50 00	0.9999446	0.9999408	0.9999371	0.9999335	0.9999302
131 52 30	0.9999479	0.9999439	0.9999401	0.9999364	0.9999329
131 55 00	0.9999514	0.9999472	0.9999432	0.9999394	0.9999357
131 57 30	0.9999549	0.9999506	0.9999464	0.9999424	0.9999387
132 00 00	0.9999585	0.9999541	0.9999498	0.9999457	0.9999417

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	54 40 00	54 42 30	54 45 00	54 47 30	54 50 00
132 00 00	1 23 33.0	1 23 31.7	1 23 30.4	1 23 29.2	1 23 28.1
132 02 30	1 21 30.0	1 21 28.7	1 21 27.4	1 21 26.2	1 21 25.0
132 05 00	1 19 27.1	1 19 25.7	1 19 24.4	1 19 23.1	1 19 21.9
132 07 30	1 17 24.1	1 17 22.7	1 17 21.3	1 17 20.0	1 17 18.8
132 10 00	1 15 21.2	1 15 19.7	1 15 18.3	1 15 16.9	1 15 15.6
132 12 30	1 13 18.2	1 13 16.7	1 13 15.2	1 13 13.8	1 13 12.5
132 15 00	1 11 15.1	1 11 13.6	1 11 12.1	1 11 10.7	1 11 09.3
132 17 30	1 09 12.1	1 09 10.5	1 09 09.0	1 09 07.5	1 09 06.1
132 20 00	1 07 09.1	1 07 07.4	1 07 05.9	1 07 04.4	1 07 02.9
132 22 30	1 05 06.0	1 05 04.3	1 05 02.7	1 05 01.2	1 04 59.7
132 25 00	1 03 02.9	1 03 01.2	1 02 59.6	1 02 58.0	1 02 56.4
132 27 30	1 00 59.8	1 00 58.1	1 00 56.4	1 00 54.7	1 00 53.1
132 30 00	0 58 56.7	0 58 54.9	0 58 53.2	0 58 51.5	0 58 49.9
132 32 30	0 56 53.5	0 56 51.7	0 56 49.9	0 56 48.2	0 56 46.6
132 35 00	0 54 50.4	0 54 48.5	0 54 46.7	0 54 44.9	0 54 43.2
132 37 30	0 52 47.2	0 52 45.3	0 52 43.5	0 52 41.7	0 52 39.9
132 40 00	0 50 44.0	0 50 42.1	0 50 40.2	0 50 38.3	0 50 36.5
132 42 30	0 48 40.8	0 48 38.8	0 48 36.9	0 48 35.0	0 48 33.2
132 45 00	0 46 37.6	0 46 35.6	0 46 33.6	0 46 31.7	0 46 29.8
132 47 30	0 44 34.3	0 44 32.3	0 44 30.3	0 44 28.3	0 44 26.4
132 50 00	0 42 31.1	0 42 29.0	0 42 26.9	0 42 24.9	0 42 23.0
132 52 30	0 40 27.8	0 40 25.6	0 40 23.5	0 40 21.5	0 40 19.5
132 55 00	0 38 24.5	0 38 22.3	0 38 20.2	0 38 18.1	0 38 16.0
132 57 30	0 36 21.2	0 36 18.9	0 36 16.8	0 36 14.6	0 36 12.6
133 00 00	0 34 17.8	0 34 15.6	0 34 13.3	0 34 11.2	0 34 09.1
133 02 30	0 32 14.5	0 32 12.2	0 32 09.9	0 32 07.7	0 32 05.6
133 05 00	0 30 11.1	0 30 08.7	0 30 06.5	0 30 04.2	0 30 02.0
133 07 30	0 28 07.7	0 28 05.3	0 28 03.0	0 28 00.7	0 27 58.5
133 10 00	0 26 04.3	0 26 01.9	0 25 59.5	0 25 57.2	0 25 54.9
133 12 30	0 24 00.9	0 23 58.4	0 23 56.0	0 23 53.6	0 23 51.3
133 15 00	0 21 57.4	0 21 54.9	0 21 52.5	0 21 50.0	0 21 47.7
133 17 30	0 19 53.9	0 19 51.4	0 19 48.9	0 19 46.5	0 19 44.1
133 20 00	0 17 50.5	0 17 47.9	0 17 45.3	0 17 42.9	0 17 40.4
133 22 30	0 15 47.0	0 15 44.3	0 15 41.8	0 15 39.2	0 15 36.8
133 25 00	0 13 43.4	0 13 40.8	0 13 38.2	0 13 35.6	0 13 33.1
133 27 30	0 11 39.9	0 11 37.2	0 11 34.5	0 11 31.9	0 11 29.4
133 30 00	0 09 36.3	0 09 33.6	0 09 30.9	0 09 28.3	0 09 25.7
133 32 30	0 07 32.8	0 07 30.0	0 07 27.2	0 07 24.6	0 07 21.9
133 35 00	0 05 29.2	0 05 26.3	0 05 23.6	0 05 20.9	0 05 18.2
133 37 30	0 03 25.5	0 03 22.7	0 03 19.9	0 03 17.1	0 03 14.4
133 40 00	0 01 21.9	0 01 19.0	0 01 16.2	0 01 13.4	0 01 10.6
133 42 30	- 0 00 41.7	- 0 00 44.7	- 0 00 47.6	- 0 00 50.4	- 0 00 53.2
133 45 00	- 0 02 45.4	- 0 02 48.4	- 0 02 51.3	- 0 02 54.2	- 0 02 57.0
133 47 30	- 0 04 49.1	- 0 04 52.1	- 0 04 55.1	- 0 04 58.0	- 0 05 00.8
133 50 00	- 0 06 52.8	- 0 06 55.9	- 0 06 58.9	- 0 07 01.8	- 0 07 04.7
133 52 30	- 0 08 56.5	- 0 08 59.6	- 0 09 02.7	- 0 09 05.7	- 0 09 08.6
133 55 00	- 0 11 00.3	- 0 11 03.4	- 0 11 06.5	- 0 11 09.5	- 0 11 12.5
133 57 30	- 0 13 04.0	- 0 13 07.2	- 0 13 10.3	- 0 13 13.4	- 0 13 16.4
134 00 00	- 0 15 07.8	- 0 15 11.0	- 0 15 14.2	- 0 15 17.3	- 0 15 20.3
134 02 30	- 0 17 11.6	- 0 17 14.9	- 0 17 18.1	- 0 17 21.2	- 0 17 24.3
134 05 00	- 0 19 15.4	- 0 19 18.7	- 0 19 22.0	- 0 19 25.1	- 0 19 28.3
134 07 30	- 0 21 19.3	- 0 21 22.6	- 0 21 25.9	- 0 21 29.1	- 0 21 32.3
134 10 00	- 0 23 23.1	- 0 23 26.5	- 0 23 29.8	- 0 23 33.1	- 0 23 36.3
134 12 30	- 0 25 27.0	- 0 25 30.4	- 0 25 33.8	- 0 25 37.1	- 0 25 40.3
134 15 00	- 0 27 30.9	- 0 27 34.3	- 0 27 37.7	- 0 27 41.1	- 0 27 44.3
134 17 30	- 0 29 34.8	- 0 29 38.3	- 0 29 41.7	- 0 29 45.1	- 0 29 48.4
134 20 00	- 0 31 38.7	- 0 31 42.3	- 0 31 45.7	- 0 31 49.1	- 0 31 52.5
134 22 30	- 0 33 42.7	- 0 33 46.3	- 0 33 49.8	- 0 33 53.2	- 0 33 56.6
134 25 00	- 0 35 46.7	- 0 35 50.3	- 0 35 53.8	- 0 35 57.3	- 0 36 00.7
134 27 30	- 0 37 50.7	- 0 37 54.3	- 0 37 57.9	- 0 38 01.4	- 0 38 04.9
134 30 00	- 0 39 54.7	- 0 39 58.3	- 0 40 01.9	- 0 40 05.5	- 0 40 09.0

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	54 40 00	54 42 30	54 45 00	54 47 30	54 50 00
132 00 00	0.9999585	0.9999541	0.9999498	0.9999457	0.9999417
132 02 30	0.9999623	0.9999577	0.9999532	0.9999490	0.9999449
132 05 00	0.9999662	0.9999614	0.9999568	0.9999524	0.9999482
132 07 30	0.9999702	0.9999653	0.9999605	0.9999560	0.9999516
132 10 00	0.9999743	0.9999692	0.9999643	0.9999596	0.9999551
132 12 30	0.9999785	0.9999733	0.9999683	0.9999634	0.9999587
132 15 00	0.9999828	0.9999775	0.9999723	0.9999673	0.9999625
132 17 30	0.9999873	0.9999818	0.9999765	0.9999713	0.9999663
132 20 00	0.9999919	0.9999862	0.9999807	0.9999754	0.9999703
132 22 30	0.9999966	0.9999907	0.9999851	0.9999797	0.9999744
132 25 00	1.0000014	0.9999954	0.9999896	0.9999840	0.9999786
132 27 30	1.0000063	1.0000002	0.9999942	0.9999885	0.9999829
132 30 00	1.0000113	1.0000050	0.9999989	0.9999931	0.9999873
132 32 30	1.0000164	1.0000100	1.0000038	0.9999977	0.9999919
132 35 00	1.0000217	1.0000151	1.0000087	1.0000025	0.9999965
132 37 30	1.0000271	1.0000203	1.0000138	1.0000075	1.0000013
132 40 00	1.0000326	1.0000257	1.0000190	1.0000125	1.0000062
132 42 30	1.0000381	1.0000311	1.0000243	1.0000176	1.0000112
132 45 00	1.0000439	1.0000367	1.0000297	1.0000229	1.0000163
132 47 30	1.0000497	1.0000424	1.0000352	1.0000283	1.0000215
132 50 00	1.0000556	1.0000481	1.0000409	1.0000338	1.0000268
132 52 30	1.0000617	1.0000540	1.0000466	1.0000394	1.0000323
132 55 00	1.0000678	1.0000601	1.0000525	1.0000451	1.0000378
132 57 30	1.0000741	1.0000662	1.0000584	1.0000509	1.0000435
133 00 00	1.0000805	1.0000724	1.0000645	1.0000568	1.0000493
133 02 30	1.0000870	1.0000788	1.0000707	1.0000629	1.0000552
133 05 00	1.0000936	1.0000852	1.0000770	1.0000690	1.0000612
133 07 30	1.0001003	1.0000918	1.0000834	1.0000753	1.0000673
133 10 00	1.0001072	1.0000985	1.0000900	1.0000817	1.0000735
133 12 30	1.0001141	1.0001053	1.0000966	1.0000881	1.0000799
133 15 00	1.0001212	1.0001122	1.0001034	1.0000947	1.0000863
133 17 30	1.0001284	1.0001192	1.0001102	1.0001015	1.0000929
133 20 00	1.0001356	1.0001263	1.0001172	1.0001083	1.0000995
133 22 30	1.0001430	1.0001336	1.0001243	1.0001152	1.0001063
133 25 00	1.0001505	1.0001409	1.0001315	1.0001223	1.0001132
133 27 30	1.0001582	1.0001484	1.0001388	1.0001294	1.0001202
133 30 00	1.0001659	1.0001560	1.0001462	1.0001367	1.0001273
133 32 30	1.0001737	1.0001636	1.0001537	1.0001440	1.0001345
133 35 00	1.0001817	1.0001714	1.0001614	1.0001515	1.0001419
133 37 30	1.0001897	1.0001793	1.0001691	1.0001591	1.0001493
133 40 00	1.0001979	1.0001873	1.0001770	1.0001668	1.0001569
133 42 30	1.0002062	1.0001955	1.0001850	1.0001746	1.0001645
133 45 00	1.0002146	1.0002037	1.0001930	1.0001826	1.0001723
133 47 30	1.0002231	1.0002120	1.0002012	1.0001906	1.0001802
133 50 00	1.0002317	1.0002205	1.0002095	1.0001987	1.0001881
133 52 30	1.0002404	1.0002291	1.0002179	1.0002070	1.0001962
133 55 00	1.0002492	1.0002377	1.0002264	1.0002153	1.0002044
133 57 30	1.0002581	1.0002465	1.0002351	1.0002238	1.0002128
134 00 00	1.0002672	1.0002554	1.0002438	1.0002324	1.0002212
134 02 30	1.0002763	1.0002644	1.0002526	1.0002411	1.0002297
134 05 00	1.0002856	1.0002735	1.0002616	1.0002499	1.0002383
134 07 30	1.0002950	1.0002827	1.0002706	1.0002588	1.0002471
134 10 00	1.0003044	1.0002920	1.0002798	1.0002678	1.0002559
134 12 30	1.0003140	1.0003014	1.0002891	1.0002769	1.0002649
134 15 00	1.0003237	1.0003110	1.0002984	1.0002861	1.0002739
134 17 30	1.0003335	1.0003206	1.0003079	1.0002954	1.0002831
134 20 00	1.0003434	1.0003304	1.0003175	1.0003049	1.0002924
134 22 30	1.0003534	1.0003402	1.0003272	1.0003144	1.0003018
134 25 00	1.0003636	1.0003502	1.0003370	1.0003241	1.0003113
134 27 30	1.0003738	1.0003603	1.0003469	1.0003338	1.0003209
134 30 00	1.0003841	1.0003705	1.0003570	1.0003437	1.0003306

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	54 50 00	54 52 30	54 55 00	54 57 30	55 00 00
129 30 00	3 26 02.2	3 26 03.7	3 26 05.2	3 26 06.8	3 26 08.4
129 32 30	3 24 00.1	3 24 01.5	3 24 03.0	3 24 04.6	3 24 06.1
129 35 00	3 21 58.0	3 21 59.4	3 22 00.8	3 22 02.3	3 22 03.9
129 37 30	3 19 55.9	3 19 57.2	3 19 58.6	3 20 00.1	3 20 01.6
129 40 00	3 17 53.8	3 17 55.1	3 17 56.4	3 17 57.8	3 17 59.3
129 42 30	3 15 51.6	3 15 52.9	3 15 54.2	3 15 55.6	3 15 57.0
129 45 00	3 13 49.5	3 13 50.7	3 13 52.0	3 13 53.3	3 13 54.6
129 47 30	3 11 47.3	3 11 48.5	3 11 49.7	3 11 51.0	3 11 52.3
129 50 00	3 09 45.1	3 09 46.2	3 09 47.4	3 09 48.6	3 09 49.9
129 52 30	3 07 42.9	3 07 44.0	3 07 45.1	3 07 46.3	3 07 47.5
129 55 00	3 05 40.7	3 05 41.7	3 05 42.8	3 05 43.9	3 05 45.1
129 57 30	3 03 38.4	3 03 39.4	3 03 40.5	3 03 41.6	3 03 42.7
130 00 00	3 01 36.2	3 01 37.1	3 01 38.1	3 01 39.2	3 01 40.3
130 02 30	2 59 33.9	2 59 34.8	2 59 35.8	2 59 36.8	2 59 37.8
130 05 00	2 57 31.6	2 57 32.5	2 57 33.4	2 57 34.4	2 57 35.4
130 07 30	2 55 29.3	2 55 30.1	2 55 31.0	2 55 31.9	2 55 32.9
130 10 00	2 53 27.0	2 53 27.8	2 53 28.6	2 53 29.5	2 53 30.4
130 12 30	2 51 24.7	2 51 25.4	2 51 26.2	2 51 27.0	2 51 27.9
130 15 00	2 49 22.3	2 49 23.0	2 49 23.7	2 49 24.5	2 49 25.4
130 17 30	2 47 19.9	2 47 20.6	2 47 21.3	2 47 22.0	2 47 22.8
130 20 00	2 45 17.5	2 45 18.1	2 45 18.8	2 45 19.5	2 45 20.2
130 22 30	2 43 15.1	2 43 15.7	2 43 16.3	2 43 17.0	2 43 17.7
130 25 00	2 41 12.7	2 41 13.2	2 41 13.8	2 41 14.4	2 41 15.1
130 27 30	2 39 10.3	2 39 10.7	2 39 11.3	2 39 11.8	2 39 12.5
130 30 00	2 37 07.8	2 37 08.2	2 37 08.7	2 37 09.3	2 37 09.8
130 32 30	2 35 05.3	2 35 05.7	2 35 06.2	2 35 06.6	2 35 07.2
130 35 00	2 33 02.9	2 33 03.2	2 33 03.6	2 33 04.0	2 33 04.5
130 37 30	2 31 00.3	2 31 00.6	2 31 01.0	2 31 01.4	2 31 01.8
130 40 00	2 28 57.8	2 28 58.1	2 28 58.4	2 28 58.7	2 28 59.2
130 42 30	2 26 55.3	2 26 55.5	2 26 55.8	2 26 56.1	2 26 56.4
130 45 00	2 24 52.7	2 24 52.9	2 24 53.1	2 24 53.4	2 24 53.7
130 47 30	2 22 50.2	2 22 50.3	2 22 50.5	2 22 50.7	2 22 51.0
130 50 00	2 20 47.6	2 20 47.6	2 20 47.8	2 20 48.0	2 20 48.2
130 52 30	2 18 45.0	2 18 45.0	2 18 45.1	2 18 45.2	2 18 45.4
130 55 00	2 16 42.3	2 16 42.3	2 16 42.4	2 16 42.5	2 16 42.6
130 57 30	2 14 39.7	2 14 39.6	2 14 39.7	2 14 39.7	2 14 39.8
131 00 00	2 12 37.0	2 12 36.9	2 12 36.9	2 12 36.9	2 12 37.0
131 02 30	2 10 34.4	2 10 34.2	2 10 34.2	2 10 34.1	2 10 34.2
131 05 00	2 08 31.7	2 08 31.5	2 08 31.4	2 08 31.3	2 08 31.3
131 07 30	2 06 29.0	2 06 28.7	2 06 28.6	2 06 28.5	2 06 28.4
131 10 00	2 04 26.2	2 04 26.0	2 04 25.8	2 04 25.6	2 04 25.5
131 12 30	2 02 23.5	2 02 23.2	2 02 22.9	2 02 22.8	2 02 22.6
131 15 00	2 00 20.7	2 00 20.4	2 00 20.1	2 00 19.9	2 00 19.7
131 17 30	1 58 18.0	1 58 17.6	1 58 17.2	1 58 17.0	1 58 16.7
131 20 00	1 56 15.2	1 56 14.7	1 56 14.4	1 56 14.0	1 56 13.8
131 22 30	1 54 12.3	1 54 11.9	1 54 11.5	1 54 11.1	1 54 10.8
131 25 00	1 52 09.5	1 52 09.0	1 52 08.6	1 52 08.2	1 52 07.8
131 27 30	1 50 06.7	1 50 06.1	1 50 05.6	1 50 05.2	1 50 04.8
131 30 00	1 48 03.8	1 48 03.2	1 48 02.7	1 48 02.2	1 48 01.8
131 32 30	1 46 00.9	1 46 00.3	1 45 59.7	1 45 59.2	1 45 58.7
131 35 00	1 43 58.0	1 43 57.4	1 43 56.7	1 43 56.2	1 43 55.6
131 37 30	1 41 55.1	1 41 54.4	1 41 53.7	1 41 53.1	1 41 52.6
131 40 00	1 39 52.2	1 39 51.4	1 39 50.7	1 39 50.1	1 39 49.5
131 42 30	1 37 49.2	1 37 48.4	1 37 47.7	1 37 47.0	1 37 46.3
131 45 00	1 35 46.3	1 35 45.4	1 35 44.6	1 35 43.9	1 35 43.2
131 47 30	1 33 43.3	1 33 42.4	1 33 41.6	1 33 40.8	1 33 40.1
131 50 00	1 31 40.3	1 31 39.4	1 31 38.5	1 31 37.7	1 31 36.9
131 52 30	1 29 37.3	1 29 36.3	1 29 35.4	1 29 34.5	1 29 33.7
131 55 00	1 27 34.2	1 27 33.2	1 27 32.3	1 27 31.4	1 27 30.5
131 57 30	1 25 31.2	1 25 30.1	1 25 29.1	1 25 28.2	1 25 27.3
132 00 00	1 23 28.1	1 23 27.0	1 23 26.0	1 23 25.0	1 23 24.1

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	54 50 00	54 52 30	54 55 00	54 57 30	55 00 00
129 30 00	0.9999676	0.9999723	0.9999772	0.9999823	0.9999875
129 32 30	0.9999636	0.9999682	0.9999729	0.9999778	0.9999829
129 35 00	0.9999597	0.9999642	0.9999688	0.9999736	0.9999785
129 37 30	0.9999560	0.9999603	0.9999648	0.9999694	0.9999742
129 40 00	0.9999523	0.9999565	0.9999609	0.9999654	0.9999700
129 42 30	0.9999488	0.9999529	0.9999571	0.9999614	0.9999660
129 45 00	0.9999454	0.9999493	0.9999534	0.9999576	0.9999620
129 47 30	0.9999422	0.9999460	0.9999499	0.9999540	0.9999582
129 50 00	0.9999390	0.9999427	0.9999465	0.9999504	0.9999545
129 52 30	0.9999360	0.9999395	0.9999432	0.9999470	0.9999510
129 55 00	0.9999331	0.9999365	0.9999400	0.9999437	0.9999475
129 57 30	0.9999304	0.9999336	0.9999370	0.9999405	0.9999442
130 00 00	0.9999277	0.9999308	0.9999340	0.9999374	0.9999410
130 02 30	0.9999252	0.9999281	0.9999312	0.9999345	0.9999379
130 05 00	0.9999228	0.9999256	0.9999286	0.9999317	0.9999350
130 07 30	0.9999205	0.9999232	0.9999260	0.9999290	0.9999322
130 10 00	0.9999183	0.9999209	0.9999236	0.9999264	0.9999294
130 12 30	0.9999163	0.9999187	0.9999212	0.9999240	0.9999268
130 15 00	0.9999144	0.9999166	0.9999191	0.9999216	0.9999244
130 17 30	0.9999126	0.9999147	0.9999170	0.9999194	0.9999220
130 20 00	0.9999109	0.9999129	0.9999150	0.9999173	0.9999198
130 22 30	0.9999094	0.9999112	0.9999132	0.9999154	0.9999177
130 25 00	0.9999079	0.9999096	0.9999115	0.9999135	0.9999157
130 27 30	0.9999066	0.9999082	0.9999099	0.9999118	0.9999138
130 30 00	0.9999054	0.9999068	0.9999084	0.9999102	0.9999121
130 32 30	0.9999044	0.9999056	0.9999071	0.9999087	0.9999104
130 35 00	0.9999034	0.9999045	0.9999058	0.9999073	0.9999089
130 37 30	0.9999026	0.9999036	0.9999047	0.9999061	0.9999075
130 40 00	0.9999019	0.9999027	0.9999037	0.9999049	0.9999063
130 42 30	0.9999013	0.9999020	0.9999029	0.9999039	0.9999051
130 45 00	0.9999008	0.9999014	0.9999021	0.9999030	0.9999041
130 47 30	0.9999005	0.9999009	0.9999015	0.9999022	0.9999032
130 50 00	0.9999002	0.9999005	0.9999010	0.9999016	0.9999024
130 52 30	0.9999001	0.9999003	0.9999006	0.9999011	0.9999017
130 55 00	0.9999001	0.9999001	0.9999003	0.9999006	0.9999011
130 57 30	0.9999003	0.9999001	0.9999001	0.9999003	0.9999007
131 00 00	0.9999005	0.9999002	0.9999001	0.9999002	0.9999004
131 02 30	0.9999009	0.9999004	0.9999002	0.9999001	0.9999002
131 05 00	0.9999014	0.9999008	0.9999004	0.9999002	0.9999001
131 07 30	0.9999020	0.9999012	0.9999007	0.9999003	0.9999001
131 10 00	0.9999027	0.9999018	0.9999011	0.9999006	0.9999003
131 12 30	0.9999035	0.9999025	0.9999017	0.9999010	0.9999005
131 15 00	0.9999045	0.9999033	0.9999024	0.9999016	0.9999009
131 17 30	0.9999056	0.9999043	0.9999031	0.9999022	0.9999014
131 20 00	0.9999067	0.9999053	0.9999040	0.9999030	0.9999020
131 22 30	0.9999081	0.9999065	0.9999051	0.9999038	0.9999028
131 25 00	0.9999095	0.9999078	0.9999062	0.9999048	0.9999036
131 27 30	0.9999110	0.9999092	0.9999075	0.9999059	0.9999046
131 30 00	0.9999127	0.9999107	0.9999088	0.9999072	0.9999057
131 32 30	0.9999145	0.9999123	0.9999103	0.9999085	0.9999069
131 35 00	0.9999164	0.9999141	0.9999119	0.9999100	0.9999082
131 37 30	0.9999184	0.9999159	0.9999137	0.9999116	0.9999096
131 40 00	0.9999205	0.9999179	0.9999155	0.9999133	0.9999112
131 42 30	0.9999227	0.9999200	0.9999174	0.9999151	0.9999129
131 45 00	0.9999251	0.9999222	0.9999195	0.9999170	0.9999146
131 47 30	0.9999276	0.9999246	0.9999217	0.9999190	0.9999165
131 50 00	0.9999302	0.9999270	0.9999240	0.9999212	0.9999185
131 52 30	0.9999329	0.9999296	0.9999264	0.9999235	0.9999207
131 55 00	0.9999357	0.9999322	0.9999290	0.9999258	0.9999229
131 57 30	0.9999387	0.9999350	0.9999316	0.9999283	0.9999253
132 00 00	0.9999417	0.9999380	0.9999344	0.9999310	0.9999277

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	54 50 00	54 52 30	54 55 00	54 57 30	55 00 00
132 00 00	1 23 28.1	1 23 27.0	1 23 26.0	1 23 25.0	1 23 24.1
132 02 30	1 21 25.0	1 21 23.9	1 21 22.8	1 21 21.8	1 21 20.8
132 05 00	1 19 21.9	1 19 20.7	1 19 19.6	1 19 18.5	1 19 17.5
132 07 30	1 17 18.8	1 17 17.6	1 17 16.4	1 17 15.3	1 17 14.2
132 10 00	1 15 15.6	1 15 14.4	1 15 13.2	1 15 12.0	1 15 10.9
132 12 30	1 13 12.5	1 13 11.2	1 13 09.9	1 13 08.8	1 13 07.6
132 15 00	1 11 09.3	1 11 08.0	1 11 06.7	1 11 05.5	1 11 04.3
132 17 30	1 09 06.1	1 09 04.7	1 09 03.4	1 09 02.1	1 09 00.9
132 20 00	1 07 02.9	1 07 01.5	1 07 00.1	1 06 58.8	1 06 57.5
132 22 30	1 04 59.7	1 04 58.2	1 04 56.8	1 04 55.4	1 04 54.1
132 25 00	1 02 56.4	1 02 54.9	1 02 53.5	1 02 52.1	1 02 50.7
132 27 30	1 00 53.1	1 00 51.6	1 00 50.1	1 00 48.7	1 00 47.3
132 30 00	0 58 49.9	0 58 48.3	0 58 46.8	0 58 45.3	0 58 43.9
132 32 30	0 56 46.6	0 56 44.9	0 56 43.4	0 56 41.9	0 56 40.4
132 35 00	0 54 43.2	0 54 41.6	0 54 40.0	0 54 38.4	0 54 36.9
132 37 30	0 52 39.9	0 52 38.2	0 52 36.6	0 52 35.0	0 52 33.4
132 40 00	0 50 36.5	0 50 34.8	0 50 33.1	0 50 31.5	0 50 29.9
132 42 30	0 48 33.2	0 48 31.4	0 48 29.7	0 48 28.0	0 48 26.4
132 45 00	0 46 29.8	0 46 28.0	0 46 26.2	0 46 24.5	0 46 22.8
132 47 30	0 44 26.4	0 44 24.5	0 44 22.7	0 44 21.0	0 44 19.3
132 50 00	0 42 23.0	0 42 21.1	0 42 19.2	0 42 17.4	0 42 15.7
132 52 30	0 40 19.5	0 40 17.6	0 40 15.7	0 40 13.8	0 40 12.1
132 55 00	0 38 16.0	0 38 14.1	0 38 12.1	0 38 10.3	0 38 08.4
132 57 30	0 36 12.6	0 36 10.5	0 36 08.6	0 36 06.7	0 36 04.8
133 00 00	0 34 09.1	0 34 07.0	0 34 05.0	0 34 03.0	0 34 01.1
133 02 30	0 32 05.6	0 32 03.5	0 32 01.4	0 31 59.4	0 31 57.5
133 05 00	0 30 02.0	0 29 59.9	0 29 57.8	0 29 55.8	0 29 53.8
133 07 30	0 27 58.5	0 27 56.3	0 27 54.2	0 27 52.1	0 27 50.1
133 10 00	0 25 54.9	0 25 52.7	0 25 50.5	0 25 48.4	0 25 46.3
133 12 30	0 23 51.3	0 23 49.0	0 23 46.8	0 23 44.7	0 23 42.6
133 15 00	0 21 47.7	0 21 45.4	0 21 43.2	0 21 41.0	0 21 38.8
133 17 30	0 19 44.1	0 19 41.7	0 19 39.5	0 19 37.2	0 19 35.0
133 20 00	0 17 40.4	0 17 38.1	0 17 35.7	0 17 33.5	0 17 31.2
133 22 30	0 15 36.8	0 15 34.4	0 15 32.0	0 15 29.7	0 15 27.4
133 25 00	0 13 33.1	0 13 30.6	0 13 28.2	0 13 25.9	0 13 23.6
133 27 30	0 11 29.4	0 11 26.9	0 11 24.5	0 11 22.1	0 11 19.7
133 30 00	0 09 25.7	0 09 23.1	0 09 20.7	0 09 18.2	0 09 15.9
133 32 30	0 07 21.9	0 07 19.4	0 07 16.9	0 07 14.4	0 07 12.0
133 35 00	0 05 18.2	0 05 15.6	0 05 13.0	0 05 10.5	0 05 08.1
133 37 30	0 03 14.4	0 03 11.8	0 03 09.2	0 03 06.6	0 03 04.1
133 40 00	0 01 10.6	0 01 07.9	0 01 05.3	0 01 02.7	0 01 00.2
133 42 30	- 0 00 53.2	- 0 00 55.9	- 0 00 58.6	- 0 01 01.2	- 0 01 03.8
133 45 00	- 0 02 57.0	- 0 02 59.8	- 0 03 02.5	- 0 03 05.1	- 0 03 07.8
133 47 30	- 0 05 00.8	- 0 05 03.7	- 0 05 06.4	- 0 05 09.1	- 0 05 11.8
133 50 00	- 0 07 04.7	- 0 07 07.6	- 0 07 10.3	- 0 07 13.1	- 0 07 15.8
133 52 30	- 0 09 08.6	- 0 09 11.5	- 0 09 14.3	- 0 09 17.1	- 0 09 19.8
133 55 00	- 0 11 12.5	- 0 11 15.4	- 0 11 18.3	- 0 11 21.1	- 0 11 23.9
133 57 30	- 0 13 16.4	- 0 13 19.4	- 0 13 22.3	- 0 13 25.1	- 0 13 27.9
134 00 00	- 0 15 20.3	- 0 15 23.3	- 0 15 26.3	- 0 15 29.2	- 0 15 32.0
134 02 30	- 0 17 24.3	- 0 17 27.3	- 0 17 30.3	- 0 17 33.3	- 0 17 36.1
134 05 00	- 0 19 28.3	- 0 19 31.3	- 0 19 34.4	- 0 19 37.3	- 0 19 40.3
134 07 30	- 0 21 32.3	- 0 21 35.4	- 0 21 38.4	- 0 21 41.5	- 0 21 44.4
134 10 00	- 0 23 36.3	- 0 23 39.4	- 0 23 42.5	- 0 23 45.6	- 0 23 48.6
134 12 30	- 0 25 40.3	- 0 25 43.5	- 0 25 46.6	- 0 25 49.7	- 0 25 52.8
134 15 00	- 0 27 44.3	- 0 27 47.6	- 0 27 50.8	- 0 27 53.9	- 0 27 57.0
134 17 30	- 0 29 48.4	- 0 29 51.7	- 0 29 54.9	- 0 29 58.1	- 0 30 01.2
134 20 00	- 0 31 52.5	- 0 31 55.8	- 0 31 59.1	- 0 32 02.3	- 0 32 05.4
134 22 30	- 0 33 56.6	- 0 33 59.9	- 0 34 03.2	- 0 34 06.5	- 0 34 09.7
134 25 00	- 0 36 00.7	- 0 36 04.1	- 0 36 07.4	- 0 36 10.7	- 0 36 13.9
134 27 30	- 0 38 04.9	- 0 38 08.3	- 0 38 11.7	- 0 38 15.0	- 0 38 18.2
134 30 00	- 0 40 09.0	- 0 40 12.5	- 0 40 15.9	- 0 40 19.2	- 0 40 22.5

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	54 50 00	54 52 30	54 55 00	54 57 30	55 00 00
132 00 00	0.9999417	0.9999380	0.9999344	0.9999310	0.9999277
132 02 30	0.9999449	0.9999410	0.9999372	0.9999337	0.9999303
132 05 00	0.9999482	0.9999441	0.9999402	0.9999365	0.9999330
132 07 30	0.9999516	0.9999474	0.9999433	0.9999395	0.9999358
132 10 00	0.9999551	0.9999507	0.9999466	0.9999426	0.9999388
132 12 30	0.9999587	0.9999542	0.9999499	0.9999458	0.9999418
132 15 00	0.9999625	0.9999578	0.9999533	0.9999491	0.9999449
132 17 30	0.9999663	0.9999615	0.9999569	0.9999525	0.9999482
132 20 00	0.9999703	0.9999654	0.9999606	0.9999560	0.9999516
132 22 30	0.9999744	0.9999693	0.9999644	0.9999596	0.9999551
132 25 00	0.9999786	0.9999733	0.9999683	0.9999634	0.9999587
132 27 30	0.9999829	0.9999775	0.9999723	0.9999673	0.9999624
132 30 00	0.9999873	0.9999818	0.9999764	0.9999713	0.9999663
132 32 30	0.9999919	0.9999862	0.9999807	0.9999754	0.9999702
132 35 00	0.9999965	0.9999907	0.9999850	0.9999796	0.9999743
132 37 30	1.0000013	0.9999953	0.9999895	0.9999839	0.9999784
132 40 00	1.0000062	1.0000000	0.9999941	0.9999883	0.9999827
132 42 30	1.0000112	1.0000049	0.9999988	0.9999929	0.9999871
132 45 00	1.0000163	1.0000098	1.0000036	0.9999975	0.9999916
132 47 30	1.0000215	1.0000149	1.0000085	1.0000023	0.9999963
132 50 00	1.0000268	1.0000201	1.0000135	1.0000072	1.0000010
132 52 30	1.0000323	1.0000254	1.0000187	1.0000122	1.0000058
132 55 00	1.0000378	1.0000308	1.0000239	1.0000173	1.0000108
132 57 30	1.0000435	1.0000363	1.0000293	1.0000225	1.0000159
133 00 00	1.0000493	1.0000419	1.0000348	1.0000278	1.0000210
133 02 30	1.0000552	1.0000477	1.0000404	1.0000333	1.0000263
133 05 00	1.0000612	1.0000535	1.0000461	1.0000388	1.0000317
133 07 30	1.0000673	1.0000595	1.0000519	1.0000445	1.0000372
133 10 00	1.0000735	1.0000656	1.0000578	1.0000502	1.0000429
133 12 30	1.0000799	1.0000718	1.0000638	1.0000561	1.0000486
133 15 00	1.0000863	1.0000781	1.0000700	1.0000621	1.0000544
133 17 30	1.0000929	1.0000845	1.0000762	1.0000682	1.0000604
133 20 00	1.0000995	1.0000910	1.0000826	1.0000744	1.0000664
133 22 30	1.0001063	1.0000976	1.0000891	1.0000807	1.0000726
133 25 00	1.0001132	1.0001043	1.0000957	1.0000872	1.0000789
133 27 30	1.0001202	1.0001112	1.0001024	1.0000937	1.0000853
133 30 00	1.0001273	1.0001181	1.0001092	1.0001004	1.0000918
133 32 30	1.0001345	1.0001252	1.0001161	1.0001071	1.0000984
133 35 00	1.0001419	1.0001324	1.0001231	1.0001140	1.0001051
133 37 30	1.0001493	1.0001397	1.0001302	1.0001210	1.0001119
133 40 00	1.0001569	1.0001471	1.0001375	1.0001281	1.0001189
133 42 30	1.0001645	1.0001546	1.0001448	1.0001353	1.0001259
133 45 00	1.0001723	1.0001622	1.0001523	1.0001426	1.0001331
133 47 30	1.0001802	1.0001699	1.0001599	1.0001500	1.0001403
133 50 00	1.0001881	1.0001777	1.0001675	1.0001575	1.0001477
133 52 30	1.0001962	1.0001857	1.0001753	1.0001651	1.0001552
133 55 00	1.0002044	1.0001937	1.0001832	1.0001729	1.0001627
133 57 30	1.0002128	1.0002019	1.0001912	1.0001807	1.0001704
134 00 00	1.0002212	1.0002101	1.0001993	1.0001887	1.0001782
134 02 30	1.0002297	1.0002185	1.0002075	1.0001967	1.0001861
134 05 00	1.0002383	1.0002270	1.0002159	1.0002049	1.0001942
134 07 30	1.0002471	1.0002356	1.0002243	1.0002132	1.0002023
134 10 00	1.0002559	1.0002443	1.0002328	1.0002216	1.0002105
134 12 30	1.0002649	1.0002531	1.0002415	1.0002301	1.0002188
134 15 00	1.0002739	1.0002620	1.0002502	1.0002387	1.0002273
134 17 30	1.0002831	1.0002710	1.0002591	1.0002474	1.0002358
134 20 00	1.0002924	1.0002801	1.0002681	1.0002562	1.0002445
134 22 30	1.0003018	1.0002894	1.0002771	1.0002651	1.0002532
134 25 00	1.0003113	1.0002987	1.0002863	1.0002741	1.0002621
134 27 30	1.0003209	1.0003081	1.0002956	1.0002832	1.0002711
134 30 00	1.0003306	1.0003177	1.0003050	1.0002925	1.0002802

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	55 00 00	55 02 30	55 05 00	55 07 30	55 10 00
129 30 00	3 26 08.4	3 26 10.1	3 26 11.8	3 26 13.6	3 26 15.4
129 32 30	3 24 06.1	3 24 07.8	3 24 09.5	3 24 11.2	3 24 13.0
129 35 00	3 22 03.9	3 22 05.5	3 22 07.1	3 22 08.8	3 22 10.5
129 37 30	3 20 01.6	3 20 03.1	3 20 04.7	3 20 06.4	3 20 08.1
129 40 00	3 17 59.3	3 18 00.8	3 18 02.3	3 18 03.9	3 18 05.6
129 42 30	3 15 57.0	3 15 58.4	3 15 59.9	3 16 01.5	3 16 03.1
129 45 00	3 13 54.6	3 13 56.0	3 13 57.5	3 13 59.0	3 14 00.6
129 47 30	3 11 52.3	3 11 53.6	3 11 55.1	3 11 56.5	3 11 58.1
129 50 00	3 09 49.9	3 09 51.2	3 09 52.6	3 09 54.0	3 09 55.5
129 52 30	3 07 47.5	3 07 48.8	3 07 50.1	3 07 51.5	3 07 53.0
129 55 00	3 05 45.1	3 05 46.4	3 05 47.7	3 05 49.0	3 05 50.4
129 57 30	3 03 42.7	3 03 43.9	3 03 45.2	3 03 46.4	3 03 47.8
130 00 00	3 01 40.3	3 01 41.4	3 01 42.6	3 01 43.9	3 01 45.2
130 02 30	2 59 37.8	2 59 38.9	2 59 40.1	2 59 41.3	2 59 42.6
130 05 00	2 57 35.4	2 57 36.4	2 57 37.5	2 57 38.7	2 57 39.9
130 07 30	2 55 32.9	2 55 33.9	2 55 35.0	2 55 36.1	2 55 37.3
130 10 00	2 53 30.4	2 53 31.4	2 53 32.4	2 53 33.5	2 53 34.6
130 12 30	2 51 27.9	2 51 28.8	2 51 29.8	2 51 30.8	2 51 31.9
130 15 00	2 49 25.4	2 49 26.2	2 49 27.2	2 49 28.2	2 49 29.2
130 17 30	2 47 22.8	2 47 23.7	2 47 24.6	2 47 25.5	2 47 26.5
130 20 00	2 45 20.2	2 45 21.0	2 45 21.9	2 45 22.8	2 45 23.8
130 22 30	2 43 17.7	2 43 18.4	2 43 19.2	2 43 20.1	2 43 21.0
130 25 00	2 41 15.1	2 41 15.8	2 41 16.6	2 41 17.4	2 41 18.2
130 27 30	2 39 12.5	2 39 13.1	2 39 13.9	2 39 14.6	2 39 15.5
130 30 00	2 37 09.8	2 37 10.5	2 37 11.1	2 37 11.9	2 37 12.7
130 32 30	2 35 07.2	2 35 07.8	2 35 08.4	2 35 09.1	2 35 09.8
130 35 00	2 33 04.5	2 33 05.1	2 33 05.7	2 33 06.3	2 33 07.0
130 37 30	2 31 01.8	2 31 02.4	2 31 02.9	2 31 03.5	2 31 04.2
130 40 00	2 28 59.2	2 28 59.6	2 29 00.1	2 29 00.7	2 29 01.3
130 42 30	2 26 56.4	2 26 56.9	2 26 57.3	2 26 57.8	2 26 58.4
130 45 00	2 24 53.7	2 24 54.1	2 24 54.5	2 24 55.0	2 24 55.5
130 47 30	2 22 51.0	2 22 51.3	2 22 51.7	2 22 52.1	2 22 52.6
130 50 00	2 20 48.2	2 20 48.5	2 20 48.8	2 20 49.2	2 20 49.7
130 52 30	2 18 45.4	2 18 45.7	2 18 46.0	2 18 46.3	2 18 46.7
130 55 00	2 16 42.6	2 16 42.8	2 16 43.1	2 16 43.4	2 16 43.8
130 57 30	2 14 39.8	2 14 40.0	2 14 40.2	2 14 40.5	2 14 40.8
131 00 00	2 12 37.0	2 12 37.1	2 12 37.3	2 12 37.5	2 12 37.8
131 02 30	2 10 34.2	2 10 34.2	2 10 34.4	2 10 34.5	2 10 34.8
131 05 00	2 08 31.3	2 08 31.3	2 08 31.4	2 08 31.6	2 08 31.7
131 07 30	2 06 28.4	2 06 28.4	2 06 28.5	2 06 28.6	2 06 28.7
131 10 00	2 04 25.5	2 04 25.5	2 04 25.5	2 04 25.5	2 04 25.6
131 12 30	2 02 22.6	2 02 22.5	2 02 22.5	2 02 22.5	2 02 22.6
131 15 00	2 00 19.7	2 00 19.6	2 00 19.5	2 00 19.4	2 00 19.5
131 17 30	1 58 16.7	1 58 16.6	1 58 16.4	1 58 16.4	1 58 16.3
131 20 00	1 56 13.8	1 56 13.6	1 56 13.4	1 56 13.3	1 56 13.2
131 22 30	1 54 10.8	1 54 10.5	1 54 10.3	1 54 10.2	1 54 10.1
131 25 00	1 52 07.8	1 52 07.5	1 52 07.2	1 52 07.1	1 52 06.9
131 27 30	1 50 04.8	1 50 04.4	1 50 04.2	1 50 03.9	1 50 03.7
131 30 00	1 48 01.8	1 48 01.4	1 48 01.0	1 48 00.8	1 48 00.5
131 32 30	1 45 58.7	1 45 58.3	1 45 57.9	1 45 57.6	1 45 57.3
131 35 00	1 43 55.6	1 43 55.2	1 43 54.8	1 43 54.4	1 43 54.1
131 37 30	1 41 52.6	1 41 52.1	1 41 51.6	1 41 51.2	1 41 50.8
131 40 00	1 39 49.5	1 39 48.9	1 39 48.4	1 39 48.0	1 39 47.6
131 42 30	1 37 46.3	1 37 45.8	1 37 45.2	1 37 44.7	1 37 44.3
131 45 00	1 35 43.2	1 35 42.6	1 35 42.0	1 35 41.5	1 35 41.0
131 47 30	1 33 40.1	1 33 39.4	1 33 38.8	1 33 38.2	1 33 37.7
131 50 00	1 31 36.9	1 31 36.2	1 31 35.5	1 31 34.9	1 31 34.3
131 52 30	1 29 33.7	1 29 33.0	1 29 32.2	1 29 31.6	1 29 31.0
131 55 00	1 27 30.5	1 27 29.7	1 27 29.0	1 27 28.3	1 27 27.6
131 57 30	1 25 27.3	1 25 26.5	1 25 25.7	1 25 24.9	1 25 24.2
132 00 00	1 23 24.1	1 23 23.2	1 23 22.3	1 23 21.6	1 23 20.8

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277\times10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	55 00 00	55 02 30	55 05 00	55 07 30	55 10 00
129 30 00	0.9999875	0.9999928	0.9999983	1.0000040	1.0000099
129 32 30	0.9999829	0.9999881	0.9999935	0.9999991	1.0000048
129 35 00	0.9999785	0.9999836	0.9999888	0.9999943	0.9999998
129 37 30	0.9999742	0.9999792	0.9999843	0.9999896	0.9999950
129 40 00	0.9999700	0.9999748	0.9999798	0.9999850	0.9999903
129 42 30	0.9999660	0.9999707	0.9999755	0.9999805	0.9999857
129 45 00	0.9999620	0.9999666	0.9999713	0.9999762	0.9999812
129 47 30	0.9999582	0.9999626	0.9999672	0.9999720	0.9999769
129 50 00	0.9999545	0.9999588	0.9999633	0.9999679	0.9999726
129 52 30	0.9999510	0.9999551	0.9999594	0.9999639	0.9999685
129 55 00	0.9999475	0.9999515	0.9999557	0.9999601	0.9999646
129 57 30	0.9999442	0.9999481	0.9999521	0.9999563	0.9999607
130 00 00	0.9999410	0.9999448	0.9999487	0.9999527	0.9999569
130 02 30	0.9999379	0.9999415	0.9999453	0.9999492	0.9999533
130 05 00	0.9999350	0.9999385	0.9999421	0.9999459	0.9999498
130 07 30	0.9999322	0.9999355	0.9999390	0.9999426	0.9999464
130 10 00	0.9999294	0.9999326	0.9999360	0.9999395	0.9999432
130 12 30	0.9999268	0.9999299	0.9999331	0.9999365	0.9999400
130 15 00	0.9999244	0.9999273	0.9999304	0.9999336	0.9999370
130 17 30	0.9999220	0.9999248	0.9999277	0.9999308	0.9999341
130 20 00	0.9999198	0.9999224	0.9999252	0.9999282	0.9999313
130 22 30	0.9999177	0.9999202	0.9999228	0.9999257	0.9999287
130 25 00	0.9999157	0.9999181	0.9999206	0.9999233	0.9999261
130 27 30	0.9999138	0.9999160	0.9999184	0.9999210	0.9999237
130 30 00	0.9999121	0.9999142	0.9999164	0.9999188	0.9999214
130 32 30	0.9999104	0.9999124	0.9999145	0.9999168	0.9999192
130 35 00	0.9999089	0.9999107	0.9999127	0.9999148	0.9999171
130 37 30	0.9999075	0.9999092	0.9999110	0.9999130	0.9999152
130 40 00	0.9999063	0.9999078	0.9999095	0.9999113	0.9999134
130 42 30	0.9999051	0.9999065	0.9999081	0.9999098	0.9999117
130 45 00	0.9999041	0.9999053	0.9999067	0.9999083	0.9999101
130 47 30	0.9999032	0.9999043	0.9999055	0.9999070	0.9999086
130 50 00	0.9999024	0.9999033	0.9999045	0.9999058	0.9999072
130 52 30	0.9999017	0.9999025	0.9999035	0.9999047	0.9999060
130 55 00	0.9999011	0.9999018	0.9999027	0.9999037	0.9999049
130 57 30	0.9999007	0.9999012	0.9999020	0.9999028	0.9999039
131 00 00	0.9999004	0.9999008	0.9999013	0.9999021	0.9999030
131 02 30	0.9999002	0.9999004	0.9999009	0.9999015	0.9999022
131 05 00	0.9999001	0.9999002	0.9999005	0.9999009	0.9999016
131 07 30	0.9999001	0.9999001	0.9999002	0.9999006	0.9999010
131 10 00	0.9999003	0.9999001	0.9999001	0.9999003	0.9999006
131 12 30	0.9999005	0.9999002	0.9999001	0.9999001	0.9999003
131 15 00	0.9999009	0.9999005	0.9999002	0.9999001	0.9999001
131 17 30	0.9999014	0.9999008	0.9999004	0.9999002	0.9999001
131 20 00	0.9999020	0.9999013	0.9999007	0.9999003	0.9999001
131 22 30	0.9999028	0.9999019	0.9999012	0.9999006	0.9999003
131 25 00	0.9999036	0.9999026	0.9999018	0.9999011	0.9999006
131 27 30	0.9999046	0.9999034	0.9999024	0.9999016	0.9999010
131 30 00	0.9999057	0.9999044	0.9999032	0.9999023	0.9999015
131 32 30	0.9999069	0.9999054	0.9999041	0.9999030	0.9999021
131 35 00	0.9999082	0.9999066	0.9999052	0.9999039	0.9999028
131 37 30	0.9999096	0.9999079	0.9999063	0.9999049	0.9999037
131 40 00	0.9999112	0.9999093	0.9999076	0.9999060	0.9999047
131 42 30	0.9999129	0.9999108	0.9999090	0.9999073	0.9999058
131 45 00	0.9999146	0.9999125	0.9999104	0.9999086	0.9999070
131 47 30	0.9999165	0.9999142	0.9999121	0.9999101	0.9999083
131 50 00	0.9999185	0.9999161	0.9999138	0.9999117	0.9999097
131 52 30	0.9999207	0.9999180	0.9999156	0.9999134	0.9999113
131 55 00	0.9999229	0.9999201	0.9999176	0.9999152	0.9999129
131 57 30	0.9999253	0.9999224	0.9999196	0.9999171	0.9999147
132 00 00	0.9999277	0.9999247	0.9999218	0.9999191	0.9999166

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	55 00 00	55 02 30	55 05 00	55 07 30	55 10 00
132 00 00	1 23 24.1	1 23 23.2	1 23 22.3	1 23 21.6	1 23 20.8
132 02 30	1 21 20.8	1 21 19.9	1 21 19.0	1 21 18.2	1 21 17.4
132 05 00	1 19 17.5	1 19 16.6	1 19 15.7	1 19 14.8	1 19 14.0
132 07 30	1 17 14.2	1 17 13.2	1 17 12.3	1 17 11.4	1 17 10.5
132 10 00	1 15 10.9	1 15 09.9	1 15 08.9	1 15 08.0	1 15 07.1
132 12 30	1 13 07.6	1 13 06.5	1 13 05.5	1 13 04.5	1 13 03.6
132 15 00	1 11 04.3	1 11 03.1	1 11 02.1	1 11 01.0	1 11 00.1
132 17 30	1 09 00.9	1 08 59.7	1 08 58.6	1 08 57.6	1 08 56.6
132 20 00	1 06 57.5	1 06 56.3	1 06 55.2	1 06 54.1	1 06 53.0
132 22 30	1 04 54.1	1 04 52.9	1 04 51.7	1 04 50.6	1 04 49.5
132 25 00	1 02 50.7	1 02 49.4	1 02 48.2	1 02 47.0	1 02 45.9
132 27 30	1 00 47.3	1 00 46.0	1 00 44.7	1 00 43.5	1 00 42.3
132 30 00	0 58 43.9	0 58 42.5	0 58 41.2	0 58 39.9	0 58 38.7
132 32 30	0 56 40.4	0 56 39.0	0 56 37.6	0 56 36.3	0 56 35.1
132 35 00	0 54 36.9	0 54 35.5	0 54 34.1	0 54 32.7	0 54 31.4
132 37 30	0 52 33.4	0 52 31.9	0 52 30.5	0 52 29.1	0 52 27.8
132 40 00	0 50 29.9	0 50 28.4	0 50 26.9	0 50 25.5	0 50 24.1
132 42 30	0 48 26.4	0 48 24.8	0 48 23.3	0 48 21.8	0 48 20.4
132 45 00	0 46 22.8	0 46 21.2	0 46 19.6	0 46 18.1	0 46 16.7
132 47 30	0 44 19.3	0 44 17.6	0 44 16.0	0 44 14.5	0 44 13.0
132 50 00	0 42 15.7	0 42 14.0	0 42 12.3	0 42 10.7	0 42 09.2
132 52 30	0 40 12.1	0 40 10.3	0 40 08.6	0 40 07.0	0 40 05.4
132 55 00	0 38 08.4	0 38 06.7	0 38 04.9	0 38 03.3	0 38 01.7
132 57 30	0 36 04.8	0 36 03.0	0 36 01.2	0 35 59.5	0 35 57.9
133 00 00	0 34 01.1	0 33 59.3	0 33 57.5	0 33 55.7	0 33 54.0
133 02 30	0 31 57.5	0 31 55.6	0 31 53.7	0 31 51.9	0 31 50.2
133 05 00	0 29 53.8	0 29 51.8	0 29 50.0	0 29 48.1	0 29 46.4
133 07 30	0 27 50.1	0 27 48.1	0 27 46.2	0 27 44.3	0 27 42.5
133 10 00	0 25 46.3	0 25 44.3	0 25 42.4	0 25 40.5	0 25 38.6
133 12 30	0 23 42.6	0 23 40.5	0 23 38.5	0 23 36.6	0 23 34.7
133 15 00	0 21 38.8	0 21 36.7	0 21 34.7	0 21 32.7	0 21 30.8
133 17 30	0 19 35.0	0 19 32.9	0 19 30.8	0 19 28.8	0 19 26.8
133 20 00	0 17 31.2	0 17 29.1	0 17 27.0	0 17 24.9	0 17 22.9
133 22 30	0 15 27.4	0 15 25.2	0 15 23.1	0 15 21.0	0 15 18.9
133 25 00	0 13 23.6	0 13 21.3	0 13 19.1	0 13 17.0	0 13 14.9
133 27 30	0 11 19.7	0 11 17.4	0 11 15.2	0 11 13.0	0 11 10.9
133 30 00	0 09 15.9	0 09 13.5	0 09 11.3	0 09 09.0	0 09 06.9
133 32 30	0 07 12.0	0 07 09.6	0 07 07.3	0 07 05.0	0 07 02.8
133 35 00	0 05 08.1	0 05 05.7	0 05 03.3	0 05 01.0	0 04 58.8
133 37 30	0 03 04.1	0 03 01.7	0 02 59.3	0 02 57.0	0 02 54.7
133 40 00	0 01 00.2	0 00 57.7	0 00 55.3	0 00 52.9	0 00 50.6
133 42 30	- 0 01 03.8	- 0 01 06.3	- 0 01 08.8	- 0 01 11.2	- 0 01 13.5
133 45 00	- 0 03 07.8	- 0 03 10.3	- 0 03 12.8	- 0 03 15.3	- 0 03 17.7
133 47 30	- 0 05 11.8	- 0 05 14.4	- 0 05 16.9	- 0 05 19.4	- 0 05 21.8
133 50 00	- 0 07 15.8	- 0 07 18.4	- 0 07 21.0	- 0 07 23.5	- 0 07 26.0
133 52 30	- 0 09 19.8	- 0 09 22.5	- 0 09 25.1	- 0 09 27.7	- 0 09 30.2
133 55 00	- 0 11 23.9	- 0 11 26.6	- 0 11 29.2	- 0 11 31.9	- 0 11 34.4
133 57 30	- 0 13 27.9	- 0 13 30.7	- 0 13 33.4	- 0 13 36.0	- 0 13 38.6
134 00 00	- 0 15 32.0	- 0 15 34.8	- 0 15 37.6	- 0 15 40.2	- 0 15 42.9
134 02 30	- 0 17 36.1	- 0 17 39.0	- 0 17 41.7	- 0 17 44.5	- 0 17 47.1
134 05 00	- 0 19 40.3	- 0 19 43.1	- 0 19 45.9	- 0 19 48.7	- 0 19 51.4
134 07 30	- 0 21 44.4	- 0 21 47.3	- 0 21 50.2	- 0 21 53.0	- 0 21 55.7
134 10 00	- 0 23 48.6	- 0 23 51.5	- 0 23 54.4	- 0 23 57.3	- 0 24 00.0
134 12 30	- 0 25 52.8	- 0 25 55.7	- 0 25 58.7	- 0 26 01.5	- 0 26 04.4
134 15 00	- 0 27 57.0	- 0 27 60.0	- 0 28 02.9	- 0 28 05.9	- 0 28 08.7
134 17 30	- 0 30 01.2	- 0 30 04.2	- 0 30 07.2	- 0 30 10.2	- 0 30 13.1
134 20 00	- 0 32 05.4	- 0 32 08.5	- 0 32 11.6	- 0 32 14.5	- 0 32 17.5
134 22 30	- 0 34 09.7	- 0 34 12.8	- 0 34 15.9	- 0 34 18.9	- 0 34 21.9
134 25 00	- 0 36 13.9	- 0 36 17.1	- 0 36 20.2	- 0 36 23.3	- 0 36 26.3
134 27 30	- 0 38 18.2	- 0 38 21.4	- 0 38 24.6	- 0 38 27.7	- 0 38 30.8
134 30 00	- 0 40 22.5	- 0 40 25.8	- 0 40 29.0	- 0 40 32.1	- 0 40 35.2

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	55 00 00	55 02 30	55 05 00	55 07 30	55 10 00
132 00 00	0.9999277	0.9999247	0.9999218	0.9999191	0.9999166
132 02 30	0.9999303	0.9999271	0.9999241	0.9999213	0.9999186
132 05 00	0.9999330	0.9999297	0.9999265	0.9999235	0.9999207
132 07 30	0.9999358	0.9999323	0.9999290	0.9999259	0.9999229
132 10 00	0.9999388	0.9999351	0.9999317	0.9999284	0.9999253
132 12 30	0.9999418	0.9999380	0.9999344	0.9999310	0.9999277
132 15 00	0.9999449	0.9999410	0.9999373	0.9999337	0.9999303
132 17 30	0.9999482	0.9999441	0.9999403	0.9999365	0.9999330
132 20 00	0.9999516	0.9999474	0.9999433	0.9999395	0.9999358
132 22 30	0.9999551	0.9999507	0.9999465	0.9999425	0.9999387
132 25 00	0.9999587	0.9999542	0.9999499	0.9999457	0.9999417
132 27 30	0.9999624	0.9999578	0.9999533	0.9999490	0.9999449
132 30 00	0.9999663	0.9999615	0.9999568	0.9999524	0.9999481
132 32 30	0.9999702	0.9999653	0.9999605	0.9999559	0.9999515
132 35 00	0.9999743	0.9999692	0.9999642	0.9999595	0.9999549
132 37 30	0.9999784	0.9999732	0.9999681	0.9999632	0.9999585
132 40 00	0.9999827	0.9999773	0.9999721	0.9999671	0.9999622
132 42 30	0.9999871	0.9999816	0.9999762	0.9999710	0.9999660
132 45 00	0.9999916	0.9999859	0.9999804	0.9999751	0.9999699
132 47 30	0.9999963	0.9999904	0.9999847	0.9999792	0.9999739
132 50 00	1.0000010	0.9999950	0.9999892	0.9999835	0.9999781
132 52 30	1.0000058	0.9999997	0.9999937	0.9999879	0.9999823
132 55 00	1.0000108	1.0000045	0.9999984	0.9999924	0.9999867
132 57 30	1.0000159	1.0000094	1.0000031	0.9999971	0.9999912
133 00 00	1.0000210	1.0000144	1.0000080	1.0000018	0.9999957
133 02 30	1.0000263	1.0000196	1.0000130	1.0000066	1.0000004
133 05 00	1.0000317	1.0000248	1.0000181	1.0000116	1.0000052
133 07 30	1.0000372	1.0000302	1.0000233	1.0000166	1.0000101
133 10 00	1.0000429	1.0000356	1.0000286	1.0000218	1.0000152
133 12 30	1.0000486	1.0000412	1.0000341	1.0000271	1.0000203
133 15 00	1.0000544	1.0000469	1.0000396	1.0000325	1.0000255
133 17 30	1.0000604	1.0000527	1.0000453	1.0000380	1.0000309
133 20 00	1.0000664	1.0000586	1.0000510	1.0000436	1.0000363
133 22 30	1.0000726	1.0000646	1.0000569	1.0000493	1.0000419
133 25 00	1.0000789	1.0000708	1.0000629	1.0000551	1.0000476
133 27 30	1.0000853	1.0000770	1.0000689	1.0000611	1.0000534
133 30 00	1.0000918	1.0000834	1.0000751	1.0000671	1.0000593
133 32 30	1.0000984	1.0000898	1.0000814	1.0000733	1.0000653
133 35 00	1.0001051	1.0000964	1.0000879	1.0000795	1.0000714
133 37 30	1.0001119	1.0001031	1.0000944	1.0000859	1.0000776
133 40 00	1.0001189	1.0001098	1.0001010	1.0000924	1.0000839
133 42 30	1.0001259	1.0001167	1.0001077	1.0000989	1.0000903
133 45 00	1.0001331	1.0001237	1.0001146	1.0001056	1.0000969
133 47 30	1.0001403	1.0001308	1.0001215	1.0001124	1.0001035
133 50 00	1.0001477	1.0001381	1.0001286	1.0001194	1.0001103
133 52 30	1.0001552	1.0001454	1.0001358	1.0001264	1.0001172
133 55 00	1.0001627	1.0001528	1.0001431	1.0001335	1.0001241
133 57 30	1.0001704	1.0001603	1.0001504	1.0001407	1.0001312
134 00 00	1.0001782	1.0001680	1.0001579	1.0001481	1.0001384
134 02 30	1.0001861	1.0001757	1.0001655	1.0001555	1.0001457
134 05 00	1.0001942	1.0001836	1.0001732	1.0001631	1.0001531
134 07 30	1.0002023	1.0001916	1.0001810	1.0001707	1.0001606
134 10 00	1.0002105	1.0001996	1.0001890	1.0001785	1.0001682
134 12 30	1.0002188	1.0002078	1.0001970	1.0001864	1.0001759
134 15 00	1.0002273	1.0002161	1.0002051	1.0001943	1.0001837
134 17 30	1.0002358	1.0002245	1.0002134	1.0002024	1.0001917
134 20 00	1.0002445	1.0002330	1.0002217	1.0002106	1.0001997
134 22 30	1.0002532	1.0002416	1.0002301	1.0002189	1.0002078
134 25 00	1.0002621	1.0002503	1.0002387	1.0002273	1.0002161
134 27 30	1.0002711	1.0002591	1.0002474	1.0002358	1.0002244
134 30 00	1.0002802	1.0002680	1.0002561	1.0002444	1.0002329

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	55 10 00	55 12 30	55 15 00	55 17 30	55 20 00
129 30 00	3 26 15.4	3 26 17.3	3 26 19.2	3 26 21.2	3 26 23.2
129 32 30	3 24 13.0	3 24 14.8	3 24 16.7	3 24 18.6	3 24 20.6
129 35 00	3 22 10.5	3 22 12.3	3 22 14.2	3 22 16.0	3 22 18.0
129 37 30	3 20 08.1	3 20 09.8	3 20 11.6	3 20 13.5	3 20 15.3
129 40 00	3 18 05.6	3 18 07.3	3 18 09.0	3 18 10.8	3 18 12.7
129 42 30	3 16 03.1	3 16 04.8	3 16 06.5	3 16 08.2	3 16 10.0
129 45 00	3 14 00.6	3 14 02.2	3 14 03.9	3 14 05.6	3 14 07.3
129 47 30	3 11 58.1	3 11 59.6	3 12 01.2	3 12 02.9	3 12 04.6
129 50 00	3 09 55.5	3 09 57.0	3 09 58.6	3 10 00.2	3 10 01.9
129 52 30	3 07 53.0	3 07 54.4	3 07 56.0	3 07 57.6	3 07 59.2
129 55 00	3 05 50.4	3 05 51.8	3 05 53.3	3 05 54.9	3 05 56.4
129 57 30	3 03 47.8	3 03 49.2	3 03 50.6	3 03 52.1	3 03 53.7
130 00 00	3 01 45.2	3 01 46.5	3 01 47.9	3 01 49.4	3 01 50.9
130 02 30	2 59 42.6	2 59 43.9	2 59 45.2	2 59 46.6	2 59 48.1
130 05 00	2 57 39.9	2 57 41.2	2 57 42.5	2 57 43.9	2 57 45.3
130 07 30	2 55 37.3	2 55 38.5	2 55 39.8	2 55 41.1	2 55 42.5
130 10 00	2 53 34.6	2 53 35.8	2 53 37.0	2 53 38.3	2 53 39.6
130 12 30	2 51 31.9	2 51 33.1	2 51 34.2	2 51 35.5	2 51 36.8
130 15 00	2 49 29.2	2 49 30.3	2 49 31.5	2 49 32.6	2 49 33.9
130 17 30	2 47 26.5	2 47 27.5	2 47 28.6	2 47 29.8	2 47 31.0
130 20 00	2 45 23.8	2 45 24.8	2 45 25.8	2 45 26.9	2 45 28.1
130 22 30	2 43 21.0	2 43 22.0	2 43 23.0	2 43 24.1	2 43 25.2
130 25 00	2 41 18.2	2 41 19.2	2 41 20.1	2 41 21.2	2 41 22.2
130 27 30	2 39 15.5	2 39 16.3	2 39 17.3	2 39 18.2	2 39 19.3
130 30 00	2 37 12.7	2 37 13.5	2 37 14.4	2 37 15.3	2 37 16.3
130 32 30	2 35 09.8	2 35 10.6	2 35 11.5	2 35 12.4	2 35 13.3
130 35 00	2 33 07.0	2 33 07.8	2 33 08.6	2 33 09.4	2 33 10.3
130 37 30	2 31 04.2	2 31 04.9	2 31 05.6	2 31 06.4	2 31 07.3
130 40 00	2 29 01.3	2 29 02.0	2 29 02.7	2 29 03.4	2 29 04.3
130 42 30	2 26 58.4	2 26 59.0	2 26 59.7	2 27 00.4	2 27 01.2
130 45 00	2 24 55.5	2 24 56.1	2 24 56.7	2 24 57.4	2 24 58.1
130 47 30	2 22 52.6	2 22 53.1	2 22 53.7	2 22 54.4	2 22 55.1
130 50 00	2 20 49.7	2 20 50.2	2 20 50.7	2 20 51.3	2 20 52.0
130 52 30	2 18 46.7	2 18 47.2	2 18 47.7	2 18 48.2	2 18 48.8
130 55 00	2 16 43.8	2 16 44.2	2 16 44.6	2 16 45.1	2 16 45.7
130 57 30	2 14 40.8	2 14 41.1	2 14 41.6	2 14 42.0	2 14 42.6
131 00 00	2 12 37.8	2 12 38.1	2 12 38.5	2 12 38.9	2 12 39.4
131 02 30	2 10 34.8	2 10 35.1	2 10 35.4	2 10 35.8	2 10 36.2
131 05 00	2 08 31.7	2 08 32.0	2 08 32.3	2 08 32.6	2 08 33.0
131 07 30	2 06 28.7	2 06 28.9	2 06 29.1	2 06 29.4	2 06 29.8
131 10 00	2 04 25.6	2 04 25.8	2 04 26.0	2 04 26.3	2 04 26.6
131 12 30	2 02 22.6	2 02 22.7	2 02 22.8	2 02 23.0	2 02 23.3
131 15 00	2 00 19.5	2 00 19.5	2 00 19.6	2 00 19.8	2 00 20.0
131 17 30	1 58 16.3	1 58 16.4	1 58 16.5	1 58 16.6	1 58 16.8
131 20 00	1 56 13.2	1 56 13.2	1 56 13.2	1 56 13.3	1 56 13.5
131 22 30	1 54 10.1	1 54 10.0	1 54 10.0	1 54 10.1	1 54 10.2
131 25 00	1 52 06.9	1 52 06.8	1 52 06.8	1 52 06.8	1 52 06.8
131 27 30	1 50 03.7	1 50 03.6	1 50 03.5	1 50 03.5	1 50 03.5
131 30 00	1 48 00.5	1 48 00.3	1 48 00.2	1 48 00.1	1 48 00.1
131 32 30	1 45 57.3	1 45 57.1	1 45 56.9	1 45 56.8	1 45 56.7
131 35 00	1 43 54.1	1 43 53.8	1 43 53.6	1 43 53.4	1 43 53.3
131 37 30	1 41 50.8	1 41 50.5	1 41 50.3	1 41 50.1	1 41 49.9
131 40 00	1 39 47.6	1 39 47.2	1 39 46.9	1 39 46.7	1 39 46.5
131 42 30	1 37 44.3	1 37 43.9	1 37 43.6	1 37 43.3	1 37 43.0
131 45 00	1 35 41.0	1 35 40.6	1 35 40.2	1 35 39.9	1 35 39.6
131 47 30	1 33 37.7	1 33 37.2	1 33 36.8	1 33 36.4	1 33 36.1
131 50 00	1 31 34.3	1 31 33.8	1 31 33.4	1 31 33.0	1 31 32.6
131 52 30	1 29 31.0	1 29 30.4	1 29 29.9	1 29 29.5	1 29 29.1
131 55 00	1 27 27.6	1 27 27.0	1 27 26.5	1 27 26.0	1 27 25.6
131 57 30	1 25 24.2	1 25 23.6	1 25 23.0	1 25 22.5	1 25 22.0
132 00 00	1 23 20.8	1 23 20.2	1 23 19.5	1 23 19.0	1 23 18.4

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	55 10 00	55 12 30	55 15 00	55 17 30	55 20 00
129 30 00	1.0000099	1.0000159	1.0000220	1.0000284	1.0000349
129 32 30	1.0000048	1.0000107	1.0000167	1.0000229	1.0000292
129 35 00	0.9999998	1.0000056	1.0000115	1.0000175	1.0000238
129 37 30	0.9999950	1.0000006	1.0000064	1.0000123	1.0000184
129 40 00	0.9999903	0.9999958	1.0000014	1.0000072	1.0000131
129 42 30	0.9999857	0.9999910	0.9999965	1.0000022	1.0000080
129 45 00	0.9999812	0.9999864	0.9999918	0.9999973	1.0000030
129 47 30	0.9999769	0.9999819	0.9999872	0.9999926	0.9999981
129 50 00	0.9999726	0.9999776	0.9999827	0.9999879	0.9999933
129 52 30	0.9999685	0.9999733	0.9999783	0.9999834	0.9999887
129 55 00	0.9999646	0.9999692	0.9999740	0.9999790	0.9999842
129 57 30	0.9999607	0.9999652	0.9999699	0.9999748	0.9999798
130 00 00	0.9999569	0.9999613	0.9999659	0.9999706	0.9999755
130 02 30	0.9999533	0.9999576	0.9999620	0.9999666	0.9999713
130 05 00	0.9999498	0.9999539	0.9999582	0.9999627	0.9999673
130 07 30	0.9999464	0.9999504	0.9999546	0.9999589	0.9999634
130 10 00	0.9999432	0.9999470	0.9999510	0.9999552	0.9999596
130 12 30	0.9999400	0.9999437	0.9999476	0.9999517	0.9999559
130 15 00	0.9999370	0.9999406	0.9999443	0.9999482	0.9999523
130 17 30	0.9999341	0.9999375	0.9999412	0.9999449	0.9999489
130 20 00	0.9999313	0.9999346	0.9999381	0.9999417	0.9999455
130 22 30	0.9999287	0.9999318	0.9999352	0.9999387	0.9999423
130 25 00	0.9999261	0.9999292	0.9999323	0.9999357	0.9999392
130 27 30	0.9999237	0.9999266	0.9999296	0.9999329	0.9999363
130 30 00	0.9999214	0.9999241	0.9999271	0.9999301	0.9999334
130 32 30	0.9999192	0.9999218	0.9999246	0.9999275	0.9999307
130 35 00	0.9999171	0.9999196	0.9999223	0.9999251	0.9999280
130 37 30	0.9999152	0.9999175	0.9999200	0.9999227	0.9999255
130 40 00	0.9999134	0.9999156	0.9999179	0.9999205	0.9999232
130 42 30	0.9999117	0.9999137	0.9999159	0.9999183	0.9999209
130 45 00	0.9999101	0.9999120	0.9999141	0.9999163	0.9999188
130 47 30	0.9999086	0.9999104	0.9999123	0.9999144	0.9999167
130 50 00	0.9999072	0.9999089	0.9999107	0.9999127	0.9999148
130 52 30	0.9999060	0.9999075	0.9999092	0.9999110	0.9999130
130 55 00	0.9999049	0.9999062	0.9999078	0.9999095	0.9999113
130 57 30	0.9999039	0.9999051	0.9999065	0.9999080	0.9999098
131 00 00	0.9999030	0.9999041	0.9999053	0.9999067	0.9999083
131 02 30	0.9999022	0.9999032	0.9999043	0.9999056	0.9999070
131 05 00	0.9999016	0.9999024	0.9999033	0.9999045	0.9999058
131 07 30	0.9999010	0.9999017	0.9999025	0.9999035	0.9999047
131 10 00	0.9999006	0.9999011	0.9999018	0.9999027	0.9999037
131 12 30	0.9999003	0.9999007	0.9999012	0.9999020	0.9999029
131 15 00	0.9999001	0.9999004	0.9999008	0.9999014	0.9999021
131 17 30	0.9999001	0.9999002	0.9999004	0.9999009	0.9999015
131 20 00	0.9999001	0.9999001	0.9999002	0.9999005	0.9999010
131 22 30	0.9999003	0.9999001	0.9999001	0.9999002	0.9999006
131 25 00	0.9999006	0.9999002	0.9999001	0.9999001	0.9999003
131 27 30	0.9999010	0.9999005	0.9999002	0.9999001	0.9999001
131 30 00	0.9999015	0.9999009	0.9999004	0.9999001	0.9999001
131 32 30	0.9999021	0.9999013	0.9999008	0.9999004	0.9999001
131 35 00	0.9999028	0.9999019	0.9999012	0.9999007	0.9999003
131 37 30	0.9999037	0.9999027	0.9999018	0.9999011	0.9999006
131 40 00	0.9999047	0.9999035	0.9999025	0.9999016	0.9999010
131 42 30	0.9999058	0.9999044	0.9999033	0.9999023	0.9999015
131 45 00	0.9999070	0.9999055	0.9999042	0.9999031	0.9999021
131 47 30	0.9999083	0.9999067	0.9999052	0.9999040	0.9999029
131 50 00	0.9999097	0.9999080	0.9999064	0.9999050	0.9999037
131 52 30	0.9999113	0.9999094	0.9999076	0.9999061	0.9999047
131 55 00	0.9999129	0.9999109	0.9999090	0.9999073	0.9999058
131 57 30	0.9999147	0.9999125	0.9999105	0.9999087	0.9999070
132 00 00	0.9999166	0.9999143	0.9999121	0.9999101	0.9999083

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	55 10 00	55 12 30	55 15 00	55 17 30	55 20 00
132 00 00	1 23 20.8	1 23 20.2	1 23 19.5	1 23 19.0	1 23 18.4
132 02 30	1 21 17.4	1 21 16.7	1 21 16.0	1 21 15.4	1 21 14.9
132 05 00	1 19 14.0	1 19 13.2	1 19 12.5	1 19 11.9	1 19 11.3
132 07 30	1 17 10.5	1 17 09.7	1 17 09.0	1 17 08.3	1 17 07.6
132 10 00	1 15 07.1	1 15 06.2	1 15 05.4	1 15 04.7	1 15 04.0
132 12 30	1 13 03.6	1 13 02.7	1 13 01.9	1 13 01.1	1 13 00.4
132 15 00	1 11 00.1	1 10 59.2	1 10 58.3	1 10 57.5	1 10 56.7
132 17 30	1 08 56.6	1 08 55.6	1 08 54.7	1 08 53.8	1 08 53.0
132 20 00	1 06 53.0	1 06 52.0	1 06 51.1	1 06 50.2	1 06 49.3
132 22 30	1 04 49.5	1 04 48.4	1 04 47.4	1 04 46.5	1 04 45.6
132 25 00	1 02 45.9	1 02 44.8	1 02 43.8	1 02 42.8	1 02 41.9
132 27 30	1 00 42.3	1 00 41.2	1 00 40.1	1 00 39.1	1 00 38.1
132 30 00	0 58 38.7	0 58 37.5	0 58 36.4	0 58 35.4	0 58 34.3
132 32 30	0 56 35.1	0 56 33.9	0 56 32.7	0 56 31.6	0 56 30.6
132 35 00	0 54 31.4	0 54 30.2	0 54 29.0	0 54 27.8	0 54 26.8
132 37 30	0 52 27.8	0 52 26.5	0 52 25.2	0 52 24.1	0 52 22.9
132 40 00	0 50 24.1	0 50 22.8	0 50 21.5	0 50 20.3	0 50 19.1
132 42 30	0 48 20.4	0 48 19.0	0 48 17.7	0 48 16.5	0 48 15.2
132 45 00	0 46 16.7	0 46 15.3	0 46 13.9	0 46 12.6	0 46 11.4
132 47 30	0 44 13.0	0 44 11.5	0 44 10.1	0 44 08.8	0 44 07.5
132 50 00	0 42 09.2	0 42 07.7	0 42 06.3	0 42 04.9	0 42 03.6
132 52 30	0 40 05.4	0 40 03.9	0 40 02.4	0 40 01.0	0 39 59.7
132 55 00	0 38 01.7	0 38 00.1	0 37 58.6	0 37 57.1	0 37 55.7
132 57 30	0 35 57.9	0 35 56.3	0 35 54.7	0 35 53.2	0 35 51.8
133 00 00	0 33 54.0	0 33 52.4	0 33 50.8	0 33 49.3	0 33 47.8
133 02 30	0 31 50.2	0 31 48.5	0 31 46.9	0 31 45.3	0 31 43.8
133 05 00	0 29 46.4	0 29 44.6	0 29 43.0	0 29 41.3	0 29 39.8
133 07 30	0 27 42.5	0 27 40.7	0 27 39.0	0 27 37.4	0 27 35.7
133 10 00	0 25 38.6	0 25 36.8	0 25 35.0	0 25 33.4	0 25 31.7
133 12 30	0 23 34.7	0 23 32.9	0 23 31.1	0 23 29.3	0 23 27.6
133 15 00	0 21 30.8	0 21 28.9	0 21 27.1	0 21 25.3	0 21 23.6
133 17 30	0 19 26.8	0 19 24.9	0 19 23.0	0 19 21.2	0 19 19.5
133 20 00	0 17 22.9	0 17 20.9	0 17 19.0	0 17 17.2	0 17 15.3
133 22 30	0 15 18.9	0 15 16.9	0 15 15.0	0 15 13.1	0 15 11.2
133 25 00	0 13 14.9	0 13 12.9	0 13 10.9	0 13 08.9	0 13 07.1
133 27 30	0 11 10.9	0 11 08.8	0 11 06.8	0 11 04.8	0 11 02.9
133 30 00	0 09 06.9	0 09 04.8	0 09 02.7	0 09 00.7	0 08 58.7
133 32 30	0 07 02.8	0 07 00.7	0 06 58.6	0 06 56.5	0 06 54.5
133 35 00	0 04 58.8	0 04 56.6	0 04 54.4	0 04 52.3	0 04 50.3
133 37 30	0 02 54.7	0 02 52.4	0 02 50.3	0 02 48.1	0 02 46.1
133 40 00	0 00 50.6	0 00 48.3	0 00 46.1	0 00 43.9	0 00 41.8
133 42 30	- 0 01 13.5	- 0 01 15.9	- 0 01 18.1	- 0 01 20.3	- 0 01 22.5
133 45 00	- 0 03 17.7	- 0 03 20.0	- 0 03 22.3	- 0 03 24.6	- 0 03 26.8
133 47 30	- 0 05 21.8	- 0 05 24.2	- 0 05 26.6	- 0 05 28.8	- 0 05 31.1
133 50 00	- 0 07 26.0	- 0 07 28.4	- 0 07 30.8	- 0 07 33.1	- 0 07 35.4
133 52 30	- 0 09 30.2	- 0 09 32.7	- 0 09 35.1	- 0 09 37.4	- 0 09 39.8
133 55 00	- 0 11 34.4	- 0 11 36.9	- 0 11 39.4	- 0 11 41.8	- 0 11 44.1
133 57 30	- 0 13 38.6	- 0 13 41.2	- 0 13 43.7	- 0 13 46.1	- 0 13 48.5
134 00 00	- 0 15 42.9	- 0 15 45.5	- 0 15 48.0	- 0 15 50.5	- 0 15 52.9
134 02 30	- 0 17 47.1	- 0 17 49.8	- 0 17 52.3	- 0 17 54.8	- 0 17 57.3
134 05 00	- 0 19 51.4	- 0 19 54.1	- 0 19 56.7	- 0 19 59.2	- 0 20 01.7
134 07 30	- 0 21 55.7	- 0 21 58.4	- 0 22 01.1	- 0 22 03.7	- 0 22 06.2
134 10 00	- 0 24 00.0	- 0 24 02.8	- 0 24 05.5	- 0 24 08.1	- 0 24 10.7
134 12 30	- 0 26 04.4	- 0 26 07.1	- 0 26 09.9	- 0 26 12.5	- 0 26 15.1
134 15 00	- 0 28 08.7	- 0 28 11.5	- 0 28 14.3	- 0 28 17.0	- 0 28 19.7
134 17 30	- 0 30 13.1	- 0 30 15.9	- 0 30 18.7	- 0 30 21.5	- 0 30 24.2
134 20 00	- 0 32 17.5	- 0 32 20.4	- 0 32 23.2	- 0 32 26.0	- 0 32 28.7
134 22 30	- 0 34 21.9	- 0 34 24.8	- 0 34 27.7	- 0 34 30.5	- 0 34 33.3
134 25 00	- 0 36 26.3	- 0 36 29.3	- 0 36 32.2	- 0 36 35.1	- 0 36 37.9
134 27 30	- 0 38 30.8	- 0 38 33.8	- 0 38 36.7	- 0 38 39.6	- 0 38 42.5
134 30 00	- 0 40 35.2	- 0 40 38.3	- 0 40 41.3	- 0 40 44.2	- 0 40 47.1

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277\times10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	55 10 00	55 12 30	55 15 00	55 17 30	55 20 00
132 00 00	0.9999166	0.9999143	0.9999121	0.9999101	0.9999083
132 02 30	0.9999186	0.9999161	0.9999138	0.9999117	0.9999097
132 05 00	0.9999207	0.9999181	0.9999156	0.9999134	0.9999113
132 07 30	0.9999229	0.9999202	0.9999176	0.9999152	0.9999129
132 10 00	0.9999253	0.9999224	0.9999196	0.9999171	0.9999147
132 12 30	0.9999277	0.9999247	0.9999218	0.9999191	0.9999166
132 15 00	0.9999303	0.9999271	0.9999241	0.9999212	0.9999186
132 17 30	0.9999330	0.9999296	0.9999265	0.9999235	0.9999207
132 20 00	0.9999358	0.9999323	0.9999290	0.9999258	0.9999229
132 22 30	0.9999387	0.9999351	0.9999316	0.9999283	0.9999252
132 25 00	0.9999417	0.9999379	0.9999343	0.9999309	0.9999276
132 27 30	0.9999449	0.9999409	0.9999372	0.9999336	0.9999302
132 30 00	0.9999481	0.9999440	0.9999401	0.9999364	0.9999328
132 32 30	0.9999515	0.9999472	0.9999432	0.9999393	0.9999356
132 35 00	0.9999549	0.9999505	0.9999463	0.9999423	0.9999385
132 37 30	0.9999585	0.9999540	0.9999496	0.9999455	0.9999415
132 40 00	0.9999622	0.9999575	0.9999530	0.9999487	0.9999446
132 42 30	0.9999660	0.9999612	0.9999565	0.9999521	0.9999478
132 45 00	0.9999699	0.9999649	0.9999602	0.9999556	0.9999511
132 47 30	0.9999739	0.9999688	0.9999639	0.9999591	0.9999546
132 50 00	0.9999781	0.9999728	0.9999677	0.9999628	0.9999581
132 52 30	0.9999823	0.9999769	0.9999717	0.9999666	0.9999618
132 55 00	0.9999867	0.9999811	0.9999757	0.9999706	0.9999655
132 57 30	0.9999912	0.9999854	0.9999799	0.9999746	0.9999694
133 00 00	0.9999957	0.9999899	0.9999842	0.9999787	0.9999734
133 02 30	1.0000004	0.9999944	0.9999886	0.9999830	0.9999775
133 05 00	1.0000052	0.9999991	0.9999931	0.9999873	0.9999817
133 07 30	1.0000101	1.0000038	0.9999977	0.9999918	0.9999860
133 10 00	1.0000152	1.0000087	1.0000024	0.9999963	0.9999904
133 12 30	1.0000203	1.0000137	1.0000073	1.0000010	0.9999950
133 15 00	1.0000255	1.0000188	1.0000122	1.0000058	0.9999996
133 17 30	1.0000309	1.0000240	1.0000172	1.0000107	1.0000044
133 20 00	1.0000363	1.0000293	1.0000224	1.0000157	1.0000092
133 22 30	1.0000419	1.0000347	1.0000277	1.0000208	1.0000142
133 25 00	1.0000476	1.0000402	1.0000330	1.0000261	1.0000193
133 27 30	1.0000534	1.0000458	1.0000385	1.0000314	1.0000245
133 30 00	1.0000593	1.0000516	1.0000441	1.0000368	1.0000297
133 32 30	1.0000653	1.0000574	1.0000498	1.0000424	1.0000351
133 35 00	1.0000714	1.0000634	1.0000556	1.0000480	1.0000407
133 37 30	1.0000776	1.0000695	1.0000615	1.0000538	1.0000463
133 40 00	1.0000839	1.0000756	1.0000676	1.0000597	1.0000520
133 42 30	1.0000903	1.0000819	1.0000737	1.0000657	1.0000578
133 45 00	1.0000969	1.0000883	1.0000799	1.0000718	1.0000638
133 47 30	1.0001035	1.0000948	1.0000863	1.0000779	1.0000698
133 50 00	1.0001103	1.0001014	1.0000927	1.0000842	1.0000760
133 52 30	1.0001172	1.0001081	1.0000993	1.0000907	1.0000822
133 55 00	1.0001241	1.0001149	1.0001060	1.0000972	1.0000886
133 57 30	1.0001312	1.0001219	1.0001127	1.0001038	1.0000950
134 00 00	1.0001384	1.0001289	1.0001196	1.0001105	1.0001016
134 02 30	1.0001457	1.0001360	1.0001266	1.0001173	1.0001083
134 05 00	1.0001531	1.0001433	1.0001337	1.0001243	1.0001151
134 07 30	1.0001606	1.0001506	1.0001409	1.0001313	1.0001220
134 10 00	1.0001682	1.0001581	1.0001482	1.0001385	1.0001290
134 12 30	1.0001759	1.0001657	1.0001556	1.0001457	1.0001361
134 15 00	1.0001837	1.0001733	1.0001631	1.0001531	1.0001433
134 17 30	1.0001917	1.0001811	1.0001707	1.0001606	1.0001506
134 20 00	1.0001997	1.0001890	1.0001785	1.0001681	1.0001580
134 22 30	1.0002078	1.0001970	1.0001863	1.0001758	1.0001655
134 25 00	1.0002161	1.0002051	1.0001942	1.0001836	1.0001732
134 27 30	1.0002244	1.0002133	1.0002023	1.0001915	1.0001809
134 30 00	1.0002329	1.0002216	1.0002104	1.0001995	1.0001887

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	55 20 00	55 22 30	55 25 00	55 27 30	55 30 00
129 30 00	3 26 23.2	3 26 25.3	3 26 27.4	3 26 29.6	3 26 31.8
129 32 30	3 24 20.6	3 24 22.6	3 24 24.7	3 24 26.9	3 24 29.0
129 35 00	3 22 18.0	3 22 20.0	3 22 22.0	3 22 24.1	3 22 26.2
129 37 30	3 20 15.3	3 20 17.3	3 20 19.3	3 20 21.3	3 20 23.4
129 40 00	3 18 12.7	3 18 14.6	3 18 16.6	3 18 18.6	3 18 20.6
129 42 30	3 16 10.0	3 16 11.9	3 16 13.8	3 16 15.8	3 16 17.8
129 45 00	3 14 07.3	3 14 09.2	3 14 11.0	3 14 12.9	3 14 14.9
129 47 30	3 12 04.6	3 12 06.4	3 12 08.2	3 12 10.1	3 12 12.0
129 50 00	3 10 01.9	3 10 03.7	3 10 05.4	3 10 07.3	3 10 09.1
129 52 30	3 07 59.2	3 08 00.9	3 08 02.6	3 08 04.4	3 08 06.2
129 55 00	3 05 56.4	3 05 58.1	3 05 59.8	3 06 01.5	3 06 03.3
129 57 30	3 03 53.7	3 03 55.3	3 03 56.9	3 03 58.6	3 04 00.4
130 00 00	3 01 50.9	3 01 52.5	3 01 54.1	3 01 55.7	3 01 57.4
130 02 30	2 59 48.1	2 59 49.6	2 59 51.2	2 59 52.8	2 59 54.4
130 05 00	2 57 45.3	2 57 46.8	2 57 48.3	2 57 49.8	2 57 51.5
130 07 30	2 55 42.5	2 55 43.9	2 55 45.4	2 55 46.9	2 55 48.5
130 10 00	2 53 39.6	2 53 41.0	2 53 42.4	2 53 43.9	2 53 45.4
130 12 30	2 51 36.8	2 51 38.1	2 51 39.5	2 51 40.9	2 51 42.4
130 15 00	2 49 33.9	2 49 35.2	2 49 36.5	2 49 37.9	2 49 39.4
130 17 30	2 47 31.0	2 47 32.2	2 47 33.6	2 47 34.9	2 47 36.3
130 20 00	2 45 28.1	2 45 29.3	2 45 30.6	2 45 31.9	2 45 33.2
130 22 30	2 43 25.2	2 43 26.3	2 43 27.5	2 43 28.8	2 43 30.1
130 25 00	2 41 22.2	2 41 23.4	2 41 24.5	2 41 25.7	2 41 27.0
130 27 30	2 39 19.3	2 39 20.4	2 39 21.5	2 39 22.7	2 39 23.9
130 30 00	2 37 16.3	2 37 17.3	2 37 18.4	2 37 19.6	2 37 20.8
130 32 30	2 35 13.3	2 35 14.3	2 35 15.4	2 35 16.4	2 35 17.6
130 35 00	2 33 10.3	2 33 11.3	2 33 12.3	2 33 13.3	2 33 14.4
130 37 30	2 31 07.3	2 31 08.2	2 31 09.2	2 31 10.2	2 31 11.2
130 40 00	2 29 04.3	2 29 05.1	2 29 06.0	2 29 07.0	2 29 08.0
130 42 30	2 27 01.2	2 27 02.0	2 27 02.9	2 27 03.8	2 27 04.8
130 45 00	2 24 58.1	2 24 58.9	2 24 59.7	2 25 00.6	2 25 01.6
130 47 30	2 22 55.1	2 22 55.8	2 22 56.6	2 22 57.4	2 22 58.3
130 50 00	2 20 52.0	2 20 52.6	2 20 53.4	2 20 54.2	2 20 55.0
130 52 30	2 18 48.8	2 18 49.5	2 18 50.2	2 18 50.9	2 18 51.8
130 55 00	2 16 45.7	2 16 46.3	2 16 47.0	2 16 47.7	2 16 48.5
130 57 30	2 14 42.6	2 14 43.1	2 14 43.7	2 14 44.4	2 14 45.1
131 00 00	2 12 39.4	2 12 39.9	2 12 40.5	2 12 41.1	2 12 41.8
131 02 30	2 10 36.2	2 10 36.7	2 10 37.2	2 10 37.8	2 10 38.4
131 05 00	2 08 33.0	2 08 33.4	2 08 33.9	2 08 34.5	2 08 35.1
131 07 30	2 06 29.8	2 06 30.2	2 06 30.6	2 06 31.1	2 06 31.7
131 10 00	2 04 26.6	2 04 26.9	2 04 27.3	2 04 27.8	2 04 28.3
131 12 30	2 02 23.3	2 02 23.6	2 02 24.0	2 02 24.4	2 02 24.9
131 15 00	2 00 20.0	2 00 20.3	2 00 20.6	2 00 21.0	2 00 21.5
131 17 30	1 58 16.8	1 58 17.0	1 58 17.3	1 58 17.6	1 58 18.0
131 20 00	1 56 13.5	1 56 13.7	1 56 13.9	1 56 14.2	1 56 14.5
131 22 30	1 54 10.2	1 54 10.3	1 54 10.5	1 54 10.8	1 54 11.1
131 25 00	1 52 06.8	1 52 06.9	1 52 07.1	1 52 07.3	1 52 07.6
131 27 30	1 50 03.5	1 50 03.5	1 50 03.7	1 50 03.8	1 50 04.0
131 30 00	1 48 00.1	1 48 00.1	1 48 00.2	1 48 00.3	1 48 00.5
131 32 30	1 45 56.7	1 45 56.7	1 45 56.7	1 45 56.8	1 45 57.0
131 35 00	1 43 53.3	1 43 53.3	1 43 53.3	1 43 53.3	1 43 53.4
131 37 30	1 41 49.9	1 41 49.8	1 41 49.8	1 41 49.8	1 41 49.8
131 40 00	1 39 46.5	1 39 46.4	1 39 46.3	1 39 46.2	1 39 46.2
131 42 30	1 37 43.0	1 37 42.9	1 37 42.7	1 37 42.7	1 37 42.6
131 45 00	1 35 39.6	1 35 39.4	1 35 39.2	1 35 39.1	1 35 39.0
131 47 30	1 33 36.1	1 33 35.8	1 33 35.6	1 33 35.5	1 33 35.3
131 50 00	1 31 32.6	1 31 32.3	1 31 32.0	1 31 31.8	1 31 31.7
131 52 30	1 29 29.1	1 29 28.7	1 29 28.4	1 29 28.2	1 29 28.0
131 55 00	1 27 25.6	1 27 25.2	1 27 24.8	1 27 24.5	1 27 24.3
131 57 30	1 25 22.0	1 25 21.6	1 25 21.2	1 25 20.9	1 25 20.6
132 00 00	1 23 18.4	1 23 18.0	1 23 17.6	1 23 17.2	1 23 16.9

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	55 20 00	55 22 30	55 25 00	55 27 30	55 30 00
129 30 00	1.0000349	1.0000415	1.0000483	1.0000553	1.0000624
129 32 30	1.0000292	1.0000358	1.0000424	1.0000493	1.0000563
129 35 00	1.0000238	1.0000301	1.0000367	1.0000434	1.0000502
129 37 30	1.0000184	1.0000246	1.0000310	1.0000376	1.0000444
129 40 00	1.0000131	1.0000193	1.0000255	1.0000320	1.0000386
129 42 30	1.0000080	1.0000140	1.0000201	1.0000264	1.0000329
129 45 00	1.0000030	1.0000089	1.0000149	1.0000210	1.0000274
129 47 30	0.9999981	1.0000038	1.0000097	1.0000158	1.0000220
129 50 00	0.9999933	0.9999989	1.0000047	1.0000106	1.0000167
129 52 30	0.9999887	0.9999942	0.9999998	1.0000055	1.0000115
129 55 00	0.9999842	0.9999895	0.9999950	1.0000006	1.0000064
129 57 30	0.9999798	0.9999850	0.9999903	0.9999958	1.0000015
130 00 00	0.9999755	0.9999805	0.9999857	0.9999911	0.9999967
130 02 30	0.9999713	0.9999762	0.9999813	0.9999866	0.9999920
130 05 00	0.9999673	0.9999721	0.9999770	0.9999821	0.9999874
130 07 30	0.9999634	0.9999680	0.9999728	0.9999778	0.9999829
130 10 00	0.9999596	0.9999641	0.9999687	0.9999736	0.9999786
130 12 30	0.9999559	0.9999602	0.9999648	0.9999695	0.9999743
130 15 00	0.9999523	0.9999565	0.9999609	0.9999655	0.9999702
130 17 30	0.9999489	0.9999530	0.9999572	0.9999616	0.9999662
130 20 00	0.9999455	0.9999495	0.9999536	0.9999579	0.9999624
130 22 30	0.9999423	0.9999461	0.9999501	0.9999543	0.9999586
130 25 00	0.9999392	0.9999429	0.9999468	0.9999508	0.9999550
130 27 30	0.9999363	0.9999398	0.9999435	0.9999474	0.9999515
130 30 00	0.9999334	0.9999368	0.9999404	0.9999442	0.9999481
130 32 30	0.9999307	0.9999339	0.9999374	0.9999410	0.9999448
130 35 00	0.9999280	0.9999312	0.9999345	0.9999380	0.9999416
130 37 30	0.9999255	0.9999286	0.9999317	0.9999351	0.9999386
130 40 00	0.9999232	0.9999260	0.9999291	0.9999323	0.9999356
130 42 30	0.9999209	0.9999236	0.9999265	0.9999296	0.9999328
130 45 00	0.9999188	0.9999213	0.9999241	0.9999270	0.9999301
130 47 30	0.9999167	0.9999192	0.9999218	0.9999246	0.9999276
130 50 00	0.9999148	0.9999171	0.9999196	0.9999223	0.9999251
130 52 30	0.9999130	0.9999152	0.9999175	0.9999201	0.9999228
130 55 00	0.9999113	0.9999134	0.9999156	0.9999180	0.9999205
130 57 30	0.9999098	0.9999117	0.9999138	0.9999160	0.9999184
131 00 00	0.9999083	0.9999101	0.9999120	0.9999141	0.9999164
131 02 30	0.9999070	0.9999086	0.9999104	0.9999124	0.9999145
131 05 00	0.9999058	0.9999073	0.9999089	0.9999108	0.9999128
131 07 30	0.9999047	0.9999060	0.9999076	0.9999092	0.9999111
131 10 00	0.9999037	0.9999049	0.9999063	0.9999079	0.9999096
131 12 30	0.9999029	0.9999039	0.9999052	0.9999066	0.9999082
131 15 00	0.9999021	0.9999030	0.9999041	0.9999054	0.9999068
131 17 30	0.9999015	0.9999023	0.9999032	0.9999044	0.9999057
131 20 00	0.9999010	0.9999016	0.9999024	0.9999034	0.9999046
131 22 30	0.9999006	0.9999011	0.9999017	0.9999026	0.9999036
131 25 00	0.9999003	0.9999006	0.9999012	0.9999019	0.9999028
131 27 30	0.9999001	0.9999003	0.9999007	0.9999013	0.9999020
131 30 00	0.9999001	0.9999001	0.9999004	0.9999008	0.9999014
131 32 30	0.9999001	0.9999001	0.9999002	0.9999005	0.9999009
131 35 00	0.9999003	0.9999001	0.9999001	0.9999002	0.9999005
131 37 30	0.9999006	0.9999002	0.9999001	0.9999001	0.9999003
131 40 00	0.9999010	0.9999005	0.9999002	0.9999000	0.9999001
131 42 30	0.9999015	0.9999009	0.9999004	0.9999001	0.9999000
131 45 00	0.9999021	0.9999014	0.9999008	0.9999003	0.9999001
131 47 30	0.9999029	0.9999020	0.9999012	0.9999007	0.9999003
131 50 00	0.9999037	0.9999027	0.9999018	0.9999011	0.9999006
131 52 30	0.9999047	0.9999035	0.9999025	0.9999016	0.9999010
131 55 00	0.9999058	0.9999045	0.9999033	0.9999023	0.9999015
131 57 30	0.9999070	0.9999055	0.9999042	0.9999031	0.9999021
132 00 00	0.9999083	0.9999067	0.9999052	0.9999040	0.9999029

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	55 20 00	55 22 30	55 25 00	55 27 30.	55 30 00
132 00 00	1 23 18.4	1 23 18.0	1 23 17.6	1 23 17.2	1 23 16.9
132 02 30	1 21 14.9	1 21 14.4	1 21 13.9	1 21 13.5	1 21 13.1
132 05 00	1 19 11.3	1 19 10.7	1 19 10.2	1 19 09.8	1 19 09.4
132 07 30	1 17 07.6	1 17 07.1	1 17 06.5	1 17 06.0	1 17 05.6
132 10 00	1 15 04.0	1 15 03.4	1 15 02.8	1 15 02.3	1 15 01.8
132 12 30	1 13 00.4	1 12 59.7	1 12 59.1	1 12 58.5	1 12 58.0
132 15 00	1 10 56.7	1 10 56.0	1 10 55.3	1 10 54.7	1 10 54.2
132 17 30	1 08 53.0	1 08 52.3	1 08 51.6	1 08 50.9	1 08 50.3
132 20 00	1 06 49.3	1 06 48.5	1 06 47.8	1 06 47.1	1 06 46.4
132 22 30	1 04 45.6	1 04 44.8	1 04 44.0	1 04 43.2	1 04 42.6
132 25 00	1 02 41.9	1 02 41.0	1 02 40.2	1 02 39.4	1 02 38.7
132 27 30	1 00 38.1	1 00 37.2	1 00 36.3	1 00 35.5	1 00 34.8
132 30 00	0 58 34.3	0 58 33.4	0 58 32.5	0 58 31.6	0 58 30.8
132 32 30	0 56 30.6	0 56 29.6	0 56 28.6	0 56 27.7	0 56 26.9
132 35 00	0 54 26.8	0 54 25.7	0 54 24.7	0 54 23.8	0 54 22.9
132 37 30	0 52 22.9	0 52 21.9	0 52 20.8	0 52 19.9	0 52 18.9
132 40 00	0 50 19.1	0 50 18.0	0 50 16.9	0 50 15.9	0 50 14.9
132 42 30	0 48 15.2	0 48 14.1	0 48 13.0	0 48 11.9	0 48 10.9
132 45 00	0 46 11.4	0 46 10.2	0 46 09.0	0 46 07.9	0 46 06.9
132 47 30	0 44 07.5	0 44 06.2	0 44 05.1	0 44 03.9	0 44 02.8
132 50 00	0 42 03.6	0 42 02.3	0 42 01.1	0 41 59.9	0 41 58.8
132 52 30	0 39 59.7	0 39 58.3	0 39 57.1	0 39 55.9	0 39 54.7
132 55 00	0 37 55.7	0 37 54.4	0 37 53.1	0 37 51.8	0 37 50.6
132 57 30	0 35 51.8	0 35 50.4	0 35 49.0	0 35 47.7	0 35 46.5
133 00 00	0 33 47.8	0 33 46.3	0 33 45.0	0 33 43.6	0 33 42.3
133 02 30	0 31 43.8	0 31 42.3	0 31 40.9	0 31 39.5	0 31 38.2
133 05 00	0 29 39.8	0 29 38.3	0 29 36.8	0 29 35.4	0 29 34.0
133 07 30	0 27 35.7	0 27 34.2	0 27 32.7	0 27 31.2	0 27 29.8
133 10 00	0 25 31.7	0 25 30.1	0 25 28.6	0 25 27.1	0 25 25.6
133 12 30	0 23 27.6	0 23 26.0	0 23 24.4	0 23 22.9	0 23 21.4
133 15 00	0 21 23.6	0 21 21.9	0 21 20.3	0 21 18.7	0 21 17.2
133 17 30	0 19 19.5	0 19 17.8	0 19 16.1	0 19 14.5	0 19 12.9
133 20 00	0 17 15.3	0 17 13.6	0 17 11.9	0 17 10.3	0 17 08.7
133 22 30	0 15 11.2	0 15 09.4	0 15 07.7	0 15 06.0	0 15 04.4
133 25 00	0 13 07.1	0 13 05.2	0 13 03.5	0 13 01.7	0 13 00.1
133 27 30	0 11 02.9	0 11 01.0	0 10 59.2	0 10 57.4	0 10 55.7
133 30 00	0 08 58.7	0 08 56.8	0 08 54.9	0 08 53.1	0 08 51.4
133 32 30	0 06 54.5	0 06 52.6	0 06 50.7	0 06 48.8	0 06 47.0
133 35 00	0 04 50.3	0 04 48.3	0 04 46.4	0 04 44.5	0 04 42.7
133 37 30	0 02 46.1	0 02 44.0	0 02 42.1	0 02 40.1	0 02 38.3
133 40 00	0 00 41.8	0 00 39.7	0 00 37.7	0 00 35.8	0 00 33.9
133 42 30	- 0 01 22.5	- 0 01 24.6	- 0 01 26.6	- 0 01 28.6	- 0 01 30.6
133 45 00	- 0 03 26.8	- 0 03 28.9	- 0 03 31.0	- 0 03 33.0	- 0 03 35.0
133 47 30	- 0 05 31.1	- 0 05 33.3	- 0 05 35.4	- 0 05 37.5	- 0 05 39.5
133 50 00	- 0 07 35.4	- 0 07 37.6	- 0 07 39.8	- 0 07 41.9	- 0 07 44.0
133 52 30	- 0 09 39.8	- 0 09 42.0	- 0 09 44.2	- 0 09 46.4	- 0 09 48.5
133 55 00	- 0 11 44.1	- 0 11 46.4	- 0 11 48.7	- 0 11 50.8	- 0 11 53.0
133 57 30	- 0 13 48.5	- 0 13 50.8	- 0 13 53.1	- 0 13 55.3	- 0 13 57.5
134 00 00	- 0 15 52.9	- 0 15 55.3	- 0 15 57.6	- 0 15 59.8	- 0 16 02.1
134 02 30	- 0 17 57.3	- 0 17 59.7	- 0 18 02.1	- 0 18 04.4	- 0 18 06.6
134 05 00	- 0 20 01.7	- 0 20 04.2	- 0 20 06.6	- 0 20 08.9	- 0 20 11.2
134 07 30	- 0 22 06.2	- 0 22 08.7	- 0 22 11.1	- 0 22 13.5	- 0 22 15.8
134 10 00	- 0 24 10.7	- 0 24 13.2	- 0 24 15.7	- 0 24 18.1	- 0 24 20.4
134 12 30	- 0 26 15.1	- 0 26 17.7	- 0 26 20.2	- 0 26 22.7	- 0 26 25.1
134 15 00	- 0 28 19.7	- 0 28 22.3	- 0 28 24.8	- 0 28 27.3	- 0 28 29.7
134 17 30	- 0 30 24.2	- 0 30 26.8	- 0 30 29.4	- 0 30 31.9	- 0 30 34.4
134 20 00	- 0 32 28.7	- 0 32 31.4	- 0 32 34.0	- 0 32 36.6	- 0 32 39.1
134 22 30	- 0 34 33.3	- 0 34 36.0	- 0 34 38.7	- 0 34 41.3	- 0 34 43.8
134 25 00	- 0 36 37.9	- 0 36 40.6	- 0 36 43.3	- 0 36 46.0	- 0 36 48.6
134 27 30	- 0 38 42.5	- 0 38 45.2	- 0 38 48.0	- 0 38 50.7	- 0 38 53.3
134 30 00	- 0 40 47.1	- 0 40 49.9	- 0 40 52.7	- 0 40 55.4	- 0 40 58.1

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	55 20 00	55 22 30	55 25 00	55 27 30	55 30 00
132 00 00	0.9999083	0.9999067	0.9999052	0.9999040	0.9999029
132 02 30	0.9999097	0.9999080	0.9999064	0.9999050	0.9999037
132 05 00	0.9999113	0.9999094	0.9999076	0.9999061	0.9999047
132 07 30	0.9999129	0.9999109	0.9999090	0.9999073	0.9999058
132 10 00	0.9999147	0.9999125	0.9999105	0.9999086	0.9999070
132 12 30	0.9999166	0.9999142	0.9999121	0.9999101	0.9999083
132 15 00	0.9999186	0.9999161	0.9999138	0.9999116	0.9999097
132 17 30	0.9999207	0.9999180	0.9999156	0.9999133	0.9999112
132 20 00	0.9999229	0.9999201	0.9999175	0.9999151	0.9999128
132 22 30	0.9999252	0.9999223	0.9999195	0.9999170	0.9999146
132 25 00	0.9999276	0.9999246	0.9999217	0.9999190	0.9999164
132 27 30	0.9999302	0.9999270	0.9999239	0.9999211	0.9999184
132 30 00	0.9999328	0.9999295	0.9999263	0.9999233	0.9999205
132 32 30	0.9999356	0.9999321	0.9999288	0.9999256	0.9999227
132 35 00	0.9999385	0.9999348	0.9999314	0.9999281	0.9999250
132 37 30	0.9999415	0.9999377	0.9999341	0.9999306	0.9999274
132 40 00	0.9999446	0.9999406	0.9999369	0.9999333	0.9999299
132 42 30	0.9999478	0.9999437	0.9999398	0.9999361	0.9999325
132 45 00	0.9999511	0.9999469	0.9999428	0.9999390	0.9999353
132 47 30	0.9999546	0.9999502	0.9999460	0.9999420	0.9999381
132 50 00	0.9999581	0.9999536	0.9999492	0.9999451	0.9999411
132 52 30	0.9999618	0.9999571	0.9999526	0.9999483	0.9999442
132 55 00	0.9999655	0.9999607	0.9999561	0.9999516	0.9999473
132 57 30	0.9999694	0.9999644	0.9999597	0.9999551	0.9999506
133 00 00	0.9999734	0.9999683	0.9999634	0.9999586	0.9999540
133 02 30	0.9999775	0.9999722	0.9999672	0.9999623	0.9999575
133 05 00	0.9999817	0.9999763	0.9999711	0.9999660	0.9999612
133 07 30	0.9999860	0.9999805	0.9999751	0.9999699	0.9999649
133 10 00	0.9999904	0.9999847	0.9999792	0.9999739	0.9999687
133 12 30	0.9999950	0.9999891	0.9999834	0.9999780	0.9999727
133 15 00	0.9999996	0.9999936	0.9999878	0.9999822	0.9999767
133 17 30	1.0000044	0.9999982	0.9999922	0.9999865	0.9999809
133 20 00	1.0000092	1.0000029	0.9999968	0.9999909	0.9999851
133 22 30	1.0000142	1.0000077	1.0000015	0.9999954	0.9999895
133 25 00	1.0000193	1.0000127	1.0000063	1.0000000	0.9999940
133 27 30	1.0000245	1.0000177	1.0000111	1.0000048	0.9999986
133 30 00	1.0000297	1.0000228	1.0000161	1.0000096	1.0000033
133 32 30	1.0000351	1.0000281	1.0000212	1.0000146	1.0000081
133 35 00	1.0000407	1.0000335	1.0000264	1.0000196	1.0000130
133 37 30	1.0000463	1.0000389	1.0000318	1.0000248	1.0000180
133 40 00	1.0000520	1.0000445	1.0000372	1.0000300	1.0000231
133 42 30	1.0000578	1.0000502	1.0000427	1.0000354	1.0000283
133 45 00	1.0000638	1.0000560	1.0000483	1.0000409	1.0000337
133 47 30	1.0000698	1.0000618	1.0000541	1.0000465	1.0000391
133 50 00	1.0000760	1.0000678	1.0000599	1.0000522	1.0000447
133 52 30	1.0000822	1.0000739	1.0000659	1.0000580	1.0000503
133 55 00	1.0000886	1.0000802	1.0000719	1.0000639	1.0000561
133 57 30	1.0000950	1.0000865	1.0000781	1.0000699	1.0000619
134 00 00	1.0001016	1.0000929	1.0000844	1.0000761	1.0000679
134 02 30	1.0001083	1.0000994	1.0000908	1.0000823	1.0000740
134 05 00	1.0001151	1.0001061	1.0000972	1.0000886	1.0000802
134 07 30	1.0001220	1.0001128	1.0001038	1.0000951	1.0000865
134 10 00	1.0001290	1.0001197	1.0001105	1.0001016	1.0000929
134 12 30	1.0001361	1.0001266	1.0001173	1.0001082	1.0000993
134 15 00	1.0001433	1.0001337	1.0001242	1.0001150	1.0001059
134 17 30	1.0001506	1.0001408	1.0001312	1.0001218	1.0001127
134 20 00	1.0001580	1.0001481	1.0001384	1.0001288	1.0001195
134 22 30	1.0001655	1.0001555	1.0001456	1.0001359	1.0001264
134 25 00	1.0001732	1.0001629	1.0001529	1.0001430	1.0001334
134 27 30	1.0001809	1.0001705	1.0001603	1.0001503	1.0001405
134 30 00	1.0001887	1.0001782	1.0001678	1.0001577	1.0001477

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	55 30 00	55 32 30	55 35 00	55 37 30	55 40 00
129 30 00	3 26 31.8	3 26 34.1	3 26 36.4	3 26 38.8	3 26 41.2
129 32 30	3 24 29.0	3 24 31.3	3 24 33.6	3 24 35.9	3 24 38.3
129 35 00	3 22 26.2	3 22 28.4	3 22 30.7	3 22 33.0	3 22 35.3
129 37 30	3 20 23.4	3 20 25.6	3 20 27.8	3 20 30.0	3 20 32.3
129 40 00	3 18 20.6	3 18 22.7	3 18 24.9	3 18 27.1	3 18 29.3
129 42 30	3 16 17.8	3 16 19.8	3 16 21.9	3 16 24.1	3 16 26.3
129 45 00	3 14 14.9	3 14 16.9	3 14 19.0	3 14 21.1	3 14 23.3
129 47 30	3 12 12.0	3 12 14.0	3 12 16.0	3 12 18.1	3 12 20.2
129 50 00	3 10 09.1	3 10 11.1	3 10 13.0	3 10 15.1	3 10 17.2
129 52 30	3 08 06.2	3 08 08.1	3 08 10.1	3 08 12.0	3 08 14.1
129 55 00	3 06 03.3	3 06 05.1	3 06 07.0	3 06 09.0	3 06 11.0
129 57 30	3 04 00.4	3 04 02.2	3 04 04.0	3 04 05.9	3 04 07.9
130 00 00	3 01 57.4	3 01 59.2	3 02 01.0	3 02 02.8	3 02 04.7
130 02 30	2 59 54.4	2 59 56.2	2 59 57.9	2 59 59.7	3 00 01.6
130 05 00	2 57 51.5	2 57 53.1	2 57 54.9	2 57 56.6	2 57 58.4
130 07 30	2 55 48.5	2 55 50.1	2 55 51.8	2 55 53.5	2 55 55.3
130 10 00	2 53 45.4	2 53 47.0	2 53 48.7	2 53 50.3	2 53 52.1
130 12 30	2 51 42.4	2 51 44.0	2 51 45.5	2 51 47.2	2 51 48.9
130 15 00	2 49 39.4	2 49 40.9	2 49 42.4	2 49 44.0	2 49 45.7
130 17 30	2 47 36.3	2 47 37.8	2 47 39.3	2 47 40.8	2 47 42.4
130 20 00	2 45 33.2	2 45 34.6	2 45 36.1	2 45 37.6	2 45 39.2
130 22 30	2 43 30.1	2 43 31.5	2 43 32.9	2 43 34.4	2 43 35.9
130 25 00	2 41 27.0	2 41 28.3	2 41 29.7	2 41 31.1	2 41 32.6
130 27 30	2 39 23.9	2 39 25.2	2 39 26.5	2 39 27.9	2 39 29.3
130 30 00	2 37 20.8	2 37 22.0	2 37 23.3	2 37 24.6	2 37 26.0
130 32 30	2 35 17.6	2 35 18.8	2 35 20.0	2 35 21.3	2 35 22.7
130 35 00	2 33 14.4	2 33 15.6	2 33 16.8	2 33 18.0	2 33 19.3
130 37 30	2 31 11.2	2 31 12.3	2 31 13.5	2 31 14.7	2 31 16.0
130 40 00	2 29 08.0	2 29 09.1	2 29 10.2	2 29 11.4	2 29 12.6
130 42 30	2 27 04.8	2 27 05.8	2 27 06.9	2 27 08.0	2 27 09.2
130 45 00	2 25 01.6	2 25 02.5	2 25 03.6	2 25 04.7	2 25 05.8
130 47 30	2 22 58.3	2 22 59.3	2 23 00.2	2 23 01.3	2 23 02.4
130 50 00	2 20 55.0	2 20 55.9	2 20 56.9	2 20 57.9	2 20 58.9
130 52 30	2 18 51.8	2 18 52.6	2 18 53.5	2 18 54.5	2 18 55.5
130 55 00	2 16 48.5	2 16 49.3	2 16 50.1	2 16 51.0	2 16 52.0
130 57 30	2 14 45.1	2 14 45.9	2 14 46.7	2 14 47.6	2 14 48.5
131 00 00	2 12 41.8	2 12 42.5	2 12 43.3	2 12 44.1	2 12 45.0
131 02 30	2 10 38.4	2 10 39.1	2 10 39.9	2 10 40.7	2 10 41.5
131 05 00	2 08 35.1	2 08 35.7	2 08 36.4	2 08 37.2	2 08 38.0
131 07 30	2 06 31.7	2 06 32.3	2 06 33.0	2 06 33.7	2 06 34.4
131 10 00	2 04 28.3	2 04 28.9	2 04 29.5	2 04 30.1	2 04 30.9
131 12 30	2 02 24.9	2 02 25.4	2 02 26.0	2 02 26.6	2 02 27.3
131 15 00	2 00 21.5	2 00 21.9	2 00 22.5	2 00 23.0	2 00 23.7
131 17 30	1 58 18.0	1 58 18.4	1 58 18.9	1 58 19.5	1 58 20.1
131 20 00	1 56 14.5	1 56 14.9	1 56 15.4	1 56 15.9	1 56 16.4
131 22 30	1 54 11.1	1 54 11.4	1 54 11.8	1 54 12.3	1 54 12.8
131 25 00	1 52 07.6	1 52 07.9	1 52 08.2	1 52 08.7	1 52 09.1
131 27 30	1 50 04.0	1 50 04.3	1 50 04.6	1 50 05.0	1 50 05.4
131 30 00	1 48 00.5	1 48 00.7	1 48 01.0	1 48 01.4	1 48 01.7
131 32 30	1 45 57.0	1 45 57.2	1 45 57.4	1 45 57.7	1 45 58.0
131 35 00	1 43 53.4	1 43 53.6	1 43 53.8	1 43 54.0	1 43 54.3
131 37 30	1 41 49.8	1 41 49.9	1 41 50.1	1 41 50.3	1 41 50.6
131 40 00	1 39 46.2	1 39 46.3	1 39 46.4	1 39 46.6	1 39 46.8
131 42 30	1 37 42.6	1 37 42.6	1 37 42.7	1 37 42.8	1 37 43.0
131 45 00	1 35 39.0	1 35 39.0	1 35 39.0	1 35 39.1	1 35 39.2
131 47 30	1 33 35.3	1 33 35.3	1 33 35.3	1 33 35.3	1 33 35.4
131 50 00	1 31 31.7	1 31 31.6	1 31 31.5	1 31 31.5	1 31 31.6
131 52 30	1 29 28.0	1 29 27.9	1 29 27.8	1 29 27.7	1 29 27.8
131 55 00	1 27 24.3	1 27 24.1	1 27 24.0	1 27 23.9	1 27 23.9
131 57 30	1 25 20.6	1 25 20.4	1 25 20.2	1 25 20.1	1 25 20.0
132 00 00	1 23 16.9	1 23 16.6	1 23 16.4	1 23 16.2	1 23 16.1

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	55 30 00	55 32 30	55 35 00	55 37 30	55 40 00
129 30 00	1.0000624	1.0000697	1.0000771	1.0000848	1.0000925
129 32 30	1.0000563	1.0000634	1.0000707	1.0000782	1.0000859
129 35 00	1.0000502	1.0000573	1.0000645	1.0000718	1.0000793
129 37 30	1.0000444	1.0000512	1.0000583	1.0000655	1.0000729
129 40 00	1.0000386	1.0000453	1.0000523	1.0000593	1.0000666
129 42 30	1.0000329	1.0000395	1.0000463	1.0000533	1.0000604
129 45 00	1.0000274	1.0000339	1.0000405	1.0000474	1.0000543
129 47 30	1.0000220	1.0000283	1.0000349	1.0000415	1.0000484
129 50 00	1.0000167	1.0000229	1.0000293	1.0000358	1.0000426
129 52 30	1.0000115	1.0000176	1.0000238	1.0000303	1.0000369
129 55 00	1.0000064	1.0000124	1.0000185	1.0000248	1.0000313
129 57 30	1.0000015	1.0000073	1.0000133	1.0000195	1.0000258
130 00 00	0.9999967	1.0000024	1.0000082	1.0000143	1.0000204
130 02 30	0.9999920	0.9999975	1.0000033	1.0000092	1.0000152
130 05 00	0.9999874	0.9999928	0.9999984	1.0000042	1.0000101
130 07 30	0.9999829	0.9999882	0.9999937	0.9999993	1.0000051
130 10 00	0.9999786	0.9999837	0.9999891	0.9999946	1.0000002
130 12 30	0.9999743	0.9999794	0.9999846	0.9999899	0.9999955
130 15 00	0.9999702	0.9999751	0.9999802	0.9999854	0.9999908
130 17 30	0.9999662	0.9999710	0.9999759	0.9999810	0.9999863
130 20 00	0.9999624	0.9999670	0.9999718	0.9999768	0.9999819
130 22 30	0.9999586	0.9999631	0.9999678	0.9999726	0.9999776
130 25 00	0.9999550	0.9999593	0.9999639	0.9999686	0.9999734
130 27 30	0.9999515	0.9999557	0.9999601	0.9999646	0.9999694
130 30 00	0.9999481	0.9999522	0.9999564	0.9999608	0.9999654
130 32 30	0.9999448	0.9999487	0.9999529	0.9999571	0.9999616
130 35 00	0.9999416	0.9999454	0.9999494	0.9999536	0.9999579
130 37 30	0.9999386	0.9999423	0.9999461	0.9999501	0.9999543
130 40 00	0.9999356	0.9999392	0.9999429	0.9999468	0.9999508
130 42 30	0.9999328	0.9999362	0.9999398	0.9999436	0.9999475
130 45 00	0.9999301	0.9999334	0.9999368	0.9999405	0.9999442
130 47 30	0.9999276	0.9999307	0.9999340	0.9999375	0.9999411
130 50 00	0.9999251	0.9999281	0.9999313	0.9999346	0.9999381
130 52 30	0.9999228	0.9999256	0.9999286	0.9999318	0.9999352
130 55 00	0.9999205	0.9999232	0.9999261	0.9999292	0.9999324
130 57 30	0.9999184	0.9999210	0.9999237	0.9999267	0.9999298
131 00 00	0.9999164	0.9999189	0.9999215	0.9999243	0.9999272
131 02 30	0.9999145	0.9999168	0.9999193	0.9999220	0.9999248
131 05 00	0.9999128	0.9999149	0.9999173	0.9999198	0.9999225
131 07 30	0.9999111	0.9999131	0.9999153	0.9999177	0.9999203
131 10 00	0.9999096	0.9999115	0.9999135	0.9999158	0.9999182
131 12 30	0.9999082	0.9999099	0.9999118	0.9999139	0.9999162
131 15 00	0.9999068	0.9999085	0.9999103	0.9999122	0.9999143
131 17 30	0.9999057	0.9999071	0.9999088	0.9999106	0.9999126
131 20 00	0.9999046	0.9999059	0.9999074	0.9999091	0.9999110
131 22 30	0.9999036	0.9999048	0.9999062	0.9999077	0.9999094
131 25 00	0.9999028	0.9999038	0.9999051	0.9999065	0.9999080
131 27 30	0.9999020	0.9999030	0.9999040	0.9999053	0.9999068
131 30 00	0.9999014	0.9999022	0.9999032	0.9999043	0.9999056
131 32 30	0.9999009	0.9999016	0.9999024	0.9999034	0.9999045
131 35 00	0.9999005	0.9999010	0.9999017	0.9999025	0.9999036
131 37 30	0.9999003	0.9999006	0.9999011	0.9999019	0.9999027
131 40 00	0.9999001	0.9999003	0.9999007	0.9999013	0.9999020
131 42 30	0.9999000	0.9999001	0.9999004	0.9999008	0.9999014
131 45 00	0.9999001	0.9999000	0.9999002	0.9999004	0.9999009
131 47 30	0.9999003	0.9999001	0.9999000	0.9999002	0.9999005
131 50 00	0.9999006	0.9999002	0.9999001	0.9999001	0.9999002
131 52 30	0.9999010	0.9999005	0.9999002	0.9999000	0.9999001
131 55 00	0.9999015	0.9999009	0.9999004	0.9999001	0.9999000
131 57 30	0.9999021	0.9999013	0.9999008	0.9999003	0.9999001
132 00 00	0.9999029	0.9999019	0.9999012	0.9999007	0.9999003

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	55 30 00	55 32 30	55 35 00	55 37 30	55 40 00
132 00 00	1 23 16.9	1 23 16.6	1 23 16.4	1 23 16.2	1 23 16.1
132 02 30	1 21 13.1	1 21 12.8	1 21 12.6	1 21 12.4	1 21 12.2
132 05 00	1 19 09.4	1 19 09.0	1 19 08.7	1 19 08.5	1 19 08.3
132 07 30	1 17 05.6	1 17 05.2	1 17 04.9	1 17 04.6	1 17 04.4
132 10 00	1 15 01.8	1 15 01.4	1 15 01.0	1 15 00.7	1 15 00.4
132 12 30	1 12 58.0	1 12 57.5	1 12 57.1	1 12 56.7	1 12 56.4
132 15 00	1 10 54.2	1 10 53.6	1 10 53.2	1 10 52.8	1 10 52.4
132 17 30	1 08 50.3	1 08 49.8	1 08 49.3	1 08 48.8	1 08 48.4
132 20 00	1 06 46.4	1 06 45.9	1 06 45.3	1 06 44.8	1 06 44.4
132 22 30	1 04 42.6	1 04 41.9	1 04 41.4	1 04 40.8	1 04 40.4
132 25 00	1 02 38.7	1 02 38.0	1 02 37.4	1 02 36.8	1 02 36.3
132 27 30	1 00 34.8	1 00 34.0	1 00 33.4	1 00 32.8	1 00 32.2
132 30 00	0 58 30.8	0 58 30.1	0 58 29.4	0 58 28.7	0 58 28.1
132 32 30	0 56 26.9	0 56 26.1	0 56 25.4	0 56 24.7	0 56 24.0
132 35 00	0 54 22.9	0 54 22.1	0 54 21.3	0 54 20.6	0 54 19.9
132 37 30	0 52 18.9	0 52 18.1	0 52 17.2	0 52 16.5	0 52 15.8
132 40 00	0 50 14.9	0 50 14.0	0 50 13.2	0 50 12.4	0 50 11.6
132 42 30	0 48 10.9	0 48 10.0	0 48 09.1	0 48 08.2	0 48 07.4
132 45 00	0 46 06.9	0 46 05.9	0 46 05.0	0 46 04.1	0 46 03.2
132 47 30	0 44 02.8	0 44 01.8	0 44 00.8	0 43 59.9	0 43 59.0
132 50 00	0 41 58.8	0 41 57.7	0 41 56.7	0 41 55.7	0 41 54.8
132 52 30	0 39 54.7	0 39 53.6	0 39 52.5	0 39 51.5	0 39 50.6
132 55 00	0 37 50.6	0 37 49.4	0 37 48.4	0 37 47.3	0 37 46.3
132 57 30	0 35 46.5	0 35 45.3	0 35 44.2	0 35 43.1	0 35 42.0
133 00 00	0 33 42.3	0 33 41.1	0 33 39.9	0 33 38.8	0 33 37.7
133 02 30	0 31 38.2	0 31 36.9	0 31 35.7	0 31 34.5	0 31 33.4
133 05 00	0 29 34.0	0 29 32.7	0 29 31.5	0 29 30.3	0 29 29.1
133 07 30	0 27 29.8	0 27 28.5	0 27 27.2	0 27 26.0	0 27 24.8
133 10 00	0 25 25.6	0 25 24.3	0 25 22.9	0 25 21.6	0 25 20.4
133 12 30	0 23 21.4	0 23 20.0	0 23 18.6	0 23 17.3	0 23 16.0
133 15 00	0 21 17.2	0 21 15.7	0 21 14.3	0 21 12.9	0 21 11.6
133 17 30	0 19 12.9	0 19 11.4	0 19 10.0	0 19 08.6	0 19 07.2
133 20 00	0 17 08.7	0 17 07.1	0 17 05.6	0 17 04.2	0 17 02.8
133 22 30	0 15 04.4	0 15 02.8	0 15 01.3	0 14 59.8	0 14 58.3
133 25 00	0 13 00.1	0 12 58.4	0 12 56.9	0 12 55.4	0 12 53.9
133 27 30	0 10 55.7	0 10 54.1	0 10 52.5	0 10 50.9	0 10 49.4
133 30 00	0 08 51.4	0 08 49.7	0 08 48.0	0 08 46.5	0 08 44.9
133 32 30	0 06 47.0	0 06 45.3	0 06 43.6	0 06 42.0	0 06 40.4
133 35 00	0 04 42.7	0 04 40.9	0 04 39.2	0 04 37.5	0 04 35.9
133 37 30	0 02 38.3	0 02 36.5	0 02 34.7	0 02 33.0	0 02 31.3
133 40 00	0 00 33.9	0 00 32.0	0 00 30.2	0 00 28.4	0 00 26.8
133 42 30	- 0 01 30.6	- 0 01 32.5	- 0 01 34.3	- 0 01 36.1	- 0 01 37.8
133 45 00	- 0 03 35.0	- 0 03 37.0	- 0 03 38.8	- 0 03 40.7	- 0 03 42.4
133 47 30	- 0 05 39.5	- 0 05 41.5	- 0 05 43.4	- 0 05 45.2	- 0 05 47.1
133 50 00	- 0 07 44.0	- 0 07 46.0	- 0 07 47.9	- 0 07 49.8	- 0 07 51.7
133 52 30	- 0 09 48.5	- 0 09 50.5	- 0 09 52.5	- 0 09 54.4	- 0 09 56.3
133 55 00	- 0 11 53.0	- 0 11 55.1	- 0 11 57.1	- 0 11 59.1	- 0 12 01.0
133 57 30	- 0 13 57.5	- 0 13 59.6	- 0 14 01.7	- 0 14 03.7	- 0 14 05.7
134 00 00	- 0 16 02.1	- 0 16 04.2	- 0 16 06.3	- 0 16 08.4	- 0 16 10.4
134 02 30	- 0 18 06.6	- 0 18 08.8	- 0 18 11.0	- 0 18 13.1	- 0 18 15.1
134 05 00	- 0 20 11.2	- 0 20 13.5	- 0 20 15.6	- 0 20 17.8	- 0 20 19.9
134 07 30	- 0 22 15.8	- 0 22 18.1	- 0 22 20.3	- 0 22 22.5	- 0 22 24.6
134 10 00	- 0 24 20.4	- 0 24 22.8	- 0 24 25.0	- 0 24 27.2	- 0 24 29.4
134 12 30	- 0 26 25.1	- 0 26 27.4	- 0 26 29.7	- 0 26 32.0	- 0 26 34.2
134 15 00	- 0 28 29.7	- 0 28 32.1	- 0 28 34.5	- 0 28 36.8	- 0 28 39.0
134 17 30	- 0 30 34.4	- 0 30 36.8	- 0 30 39.2	- 0 30 41.5	- 0 30 43.8
134 20 00	- 0 32 39.1	- 0 32 41.6	- 0 32 44.0	- 0 32 46.4	- 0 32 48.7
134 22 30	- 0 34 43.8	- 0 34 46.3	- 0 34 48.8	- 0 34 51.2	- 0 34 53.5
134 25 00	- 0 36 48.6	- 0 36 51.1	- 0 36 53.6	- 0 36 56.0	- 0 36 58.4
134 27 30	- 0 38 53.3	- 0 38 55.9	- 0 38 58.4	- 0 39 00.9	- 0 39 03.3
134 30 00	- 0 40 58.1	- 0 41 00.7	- 0 41 03.2	- 0 41 05.8	- 0 41 08.2

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	55 30 00	55 32 30	55 35 00	55 37 30	55 40 00
132 00 00	0.9999029	0.9999019	0.9999012	0.9999007	0.9999003
132 02 30	0.9999037	0.9999027	0.9999018	0.9999011	0.9999006
132 05 00	0.9999047	0.9999035	0.9999025	0.9999016	0.9999010
132 07 30	0.9999058	0.9999044	0.9999033	0.9999023	0.9999015
132 10 00	0.9999070	0.9999055	0.9999042	0.9999030	0.9999021
132 12 30	0.9999083	0.9999066	0.9999052	0.9999039	0.9999028
132 15 00	0.9999097	0.9999079	0.9999063	0.9999049	0.9999037
132 17 30	0.9999112	0.9999093	0.9999075	0.9999060	0.9999046
132 20 00	0.9999128	0.9999108	0.9999089	0.9999072	0.9999057
132 22 30	0.9999146	0.9999124	0.9999104	0.9999085	0.9999068
132 25 00	0.9999164	0.9999141	0.9999119	0.9999099	0.9999081
132 27 30	0.9999184	0.9999159	0.9999136	0.9999115	0.9999095
132 30 00	0.9999205	0.9999178	0.9999154	0.9999131	0.9999110
132 32 30	0.9999227	0.9999199	0.9999173	0.9999149	0.9999126
132 35 00	0.9999250	0.9999221	0.9999193	0.9999168	0.9999144
132 37 30	0.9999274	0.9999243	0.9999214	0.9999187	0.9999162
132 40 00	0.9999299	0.9999267	0.9999237	0.9999208	0.9999182
132 42 30	0.9999325	0.9999292	0.9999260	0.9999230	0.9999202
132 45 00	0.9999353	0.9999318	0.9999285	0.9999253	0.9999224
132 47 30	0.9999381	0.9999345	0.9999310	0.9999277	0.9999246
132 50 00	0.9999411	0.9999373	0.9999337	0.9999303	0.9999270
132 52 30	0.9999442	0.9999402	0.9999365	0.9999329	0.9999295
132 55 00	0.9999473	0.9999433	0.9999394	0.9999356	0.9999321
132 57 30	0.9999506	0.9999464	0.9999424	0.9999385	0.9999348
133 00 00	0.9999540	0.9999497	0.9999455	0.9999415	0.9999376
133 02 30	0.9999575	0.9999530	0.9999487	0.9999445	0.9999405
133 05 00	0.9999612	0.9999565	0.9999520	0.9999477	0.9999436
133 07 30	0.9999649	0.9999601	0.9999554	0.9999510	0.9999467
133 10 00	0.9999687	0.9999637	0.9999590	0.9999544	0.9999500
133 12 30	0.9999727	0.9999675	0.9999626	0.9999579	0.9999533
133 15 00	0.9999767	0.9999714	0.9999664	0.9999615	0.9999568
133 17 30	0.9999809	0.9999755	0.9999702	0.9999652	0.9999604
133 20 00	0.9999851	0.9999796	0.9999742	0.9999690	0.9999640
133 22 30	0.9999895	0.9999838	0.9999783	0.9999730	0.9999678
133 25 00	0.9999940	0.9999881	0.9999825	0.9999770	0.9999717
133 27 30	0.9999986	0.9999926	0.9999868	0.9999811	0.9999757
133 30 00	1.0000033	0.9999971	0.9999912	0.9999854	0.9999798
133 32 30	1.0000081	1.0000018	0.9999957	0.9999897	0.9999840
133 35 00	1.0000130	1.0000065	1.0000003	0.9999942	0.9999883
133 37 30	1.0000180	1.0000114	1.0000050	0.9999988	0.9999927
133 40 00	1.0000231	1.0000164	1.0000098	1.0000034	0.9999973
133 42 30	1.0000283	1.0000215	1.0000147	1.0000082	1.0000019
133 45 00	1.0000337	1.0000266	1.0000198	1.0000131	1.0000066
133 47 30	1.0000391	1.0000319	1.0000249	1.0000181	1.0000115
133 50 00	1.0000447	1.0000373	1.0000302	1.0000232	1.0000164
133 52 30	1.0000503	1.0000428	1.0000355	1.0000284	1.0000215
133 55 00	1.0000561	1.0000484	1.0000410	1.0000337	1.0000267
133 57 30	1.0000619	1.0000542	1.0000466	1.0000391	1.0000319
134 00 00	1.0000679	1.0000600	1.0000522	1.0000447	1.0000373
134 02 30	1.0000740	1.0000659	1.0000580	1.0000503	1.0000428
134 05 00	1.0000802	1.0000719	1.0000639	1.0000560	1.0000484
134 07 30	1.0000865	1.0000781	1.0000699	1.0000619	1.0000540
134 10 00	1.0000929	1.0000843	1.0000760	1.0000678	1.0000598
134 12 30	1.0000993	1.0000907	1.0000821	1.0000738	1.0000657
134 15 00	1.0001059	1.0000971	1.0000884	1.0000800	1.0000717
134 17 30	1.0001127	1.0001037	1.0000948	1.0000862	1.0000778
134 20 00	1.0001195	1.0001103	1.0001014	1.0000926	1.0000840
134 22 30	1.0001264	1.0001171	1.0001080	1.0000991	1.0000903
134 25 00	1.0001334	1.0001239	1.0001147	1.0001056	1.0000967
134 27 30	1.0001405	1.0001309	1.0001215	1.0001123	1.0001033
134 30 00	1.0001477	1.0001380	1.0001284	1.0001190	1.0001099

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	55 40 00	55 42 30	55 45 00	55 47 30	55 50 00
129 30 00	3 26 41.2	3 26 43.7	3 26 46.3	3 26 48.8	3 26 51.5
129 32 30	3 24 38.3	3 24 40.7	3 24 43.2	3 24 45.7	3 24 48.3
129 35 00	3 22 35.3	3 22 37.7	3 22 40.1	3 22 42.6	3 22 45.2
129 37 30	3 20 32.3	3 20 34.7	3 20 37.1	3 20 39.5	3 20 42.0
129 40 00	3 18 29.3	3 18 31.6	3 18 34.0	3 18 36.4	3 18 38.8
129 42 30	3 16 26.3	3 16 28.6	3 16 30.9	3 16 33.2	3 16 35.6
129 45 00	3 14 23.3	3 14 25.5	3 14 27.7	3 14 30.1	3 14 32.4
129 47 30	3 12 20.2	3 12 22.4	3 12 24.6	3 12 26.9	3 12 29.2
129 50 00	3 10 17.2	3 10 19.3	3 10 21.5	3 10 23.7	3 10 26.0
129 52 30	3 08 14.1	3 08 16.2	3 08 18.3	3 08 20.5	3 08 22.7
129 55 00	3 06 11.0	3 06 13.0	3 06 15.1	3 06 17.3	3 06 19.5
129 57 30	3 04 07.9	3 04 09.9	3 04 11.9	3 04 14.0	3 04 16.2
130 00 00	3 02 04.7	3 02 06.7	3 02 08.7	3 02 10.8	3 02 12.9
130 02 30	3 00 01.6	3 00 03.5	3 00 05.5	3 00 07.5	3 00 09.6
130 05 00	2 57 58.4	2 58 00.3	2 58 02.2	2 58 04.2	2 58 06.2
130 07 30	2 55 55.3	2 55 57.1	2 55 59.0	2 56 00.9	2 56 02.9
130 10 00	2 53 52.1	2 53 53.9	2 53 55.7	2 53 57.6	2 53 59.5
130 12 30	2 51 48.9	2 51 50.6	2 51 52.4	2 51 54.3	2 51 56.1
130 15 00	2 49 45.7	2 49 47.4	2 49 49.1	2 49 50.9	2 49 52.8
130 17 30	2 47 42.4	2 47 44.1	2 47 45.8	2 47 47.5	2 47 49.3
130 20 00	2 45 39.2	2 45 40.8	2 45 42.4	2 45 44.2	2 45 45.9
130 22 30	2 43 35.9	2 43 37.5	2 43 39.1	2 43 40.8	2 43 42.5
130 25 00	2 41 32.6	2 41 34.2	2 41 35.7	2 41 37.4	2 41 39.0
130 27 30	2 39 29.3	2 39 30.8	2 39 32.3	2 39 33.9	2 39 35.6
130 30 00	2 37 26.0	2 37 27.5	2 37 28.9	2 37 30.5	2 37 32.1
130 32 30	2 35 22.7	2 35 24.1	2 35 25.5	2 35 27.0	2 35 28.6
130 35 00	2 33 19.3	2 33 20.7	2 33 22.1	2 33 23.6	2 33 25.1
130 37 30	2 31 16.0	2 31 17.3	2 31 18.7	2 31 20.1	2 31 21.5
130 40 00	2 29 12.6	2 29 13.9	2 29 15.2	2 29 16.6	2 29 18.0
130 42 30	2 27 09.2	2 27 10.4	2 27 11.7	2 27 13.1	2 27 14.4
130 45 00	2 25 05.8	2 25 07.0	2 25 08.2	2 25 09.5	2 25 10.9
130 47 30	2 23 02.4	2 23 03.5	2 23 04.7	2 23 06.0	2 23 07.3
130 50 00	2 20 58.9	2 21 00.0	2 21 01.2	2 21 02.4	2 21 03.7
130 52 30	2 18 55.5	2 18 56.5	2 18 57.7	2 18 58.8	2 19 00.0
130 55 00	2 16 52.0	2 16 53.0	2 16 54.1	2 16 55.2	2 16 56.4
130 57 30	2 14 48.5	2 14 49.5	2 14 50.5	2 14 51.6	2 14 52.7
131 00 00	2 12 45.0	2 12 46.0	2 12 46.9	2 12 48.0	2 12 49.1
131 02 30	2 10 41.5	2 10 42.4	2 10 43.3	2 10 44.3	2 10 45.4
131 05 00	2 08 38.0	2 08 38.8	2 08 39.7	2 08 40.7	2 08 41.7
131 07 30	2 06 34.4	2 06 35.2	2 06 36.1	2 06 37.0	2 06 38.0
131 10 00	2 04 30.9	2 04 31.6	2 04 32.4	2 04 33.3	2 04 34.2
131 12 30	2 02 27.3	2 02 28.0	2 02 28.8	2 02 29.6	2 02 30.5
131 15 00	2 00 23.7	2 00 24.4	2 00 25.1	2 00 25.9	2 00 26.7
131 17 30	1 58 20.1	1 58 20.7	1 58 21.4	1 58 22.1	1 58 22.9
131 20 00	1 56 16.4	1 56 17.0	1 56 17.7	1 56 18.4	1 56 19.1
131 22 30	1 54 12.8	1 54 13.3	1 54 13.9	1 54 14.6	1 54 15.3
131 25 00	1 52 09.1	1 52 09.6	1 52 10.2	1 52 10.8	1 52 11.5
131 27 30	1 50 05.4	1 50 05.9	1 50 06.4	1 50 07.0	1 50 07.6
131 30 00	1 48 01.7	1 48 02.2	1 48 02.7	1 48 03.2	1 48 03.8
131 32 30	1 45 58.0	1 45 58.4	1 45 58.9	1 45 59.4	1 45 59.9
131 35 00	1 43 54.3	1 43 54.7	1 43 55.1	1 43 55.5	1 43 56.0
131 37 30	1 41 50.6	1 41 50.9	1 41 51.2	1 41 51.6	1 41 52.1
131 40 00	1 39 46.8	1 39 47.1	1 39 47.4	1 39 47.8	1 39 48.2
131 42 30	1 37 43.0	1 37 43.2	1 37 43.5	1 37 43.9	1 37 44.2
131 45 00	1 35 39.2	1 35 39.4	1 35 39.7	1 35 39.9	1 35 40.3
131 47 30	1 33 35.4	1 33 35.6	1 33 35.8	1 33 36.0	1 33 36.3
131 50 00	1 31 31.6	1 31 31.7	1 31 31.9	1 31 32.1	1 31 32.3
131 52 30	1 29 27.8	1 29 27.8	1 29 27.9	1 29 28.1	1 29 28.3
131 55 00	1 27 23.9	1 27 23.9	1 27 24.0	1 27 24.1	1 27 24.3
131 57 30	1 25 20.0	1 25 20.0	1 25 20.0	1 25 20.1	1 25 20.3
132 00 00	1 23 16.1	1 23 16.1	1 23 16.1	1 23 16.1	1 23 16.2

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	55 40 00	55 42 30	55 45 00	55 47 30	55 50 00
129 30 00	1.0000925	1.0001005	1.0001085	1.0001168	1.0001252
129 32 30	1.0000859	1.0000937	1.0001016	1.0001097	1.0001180
129 35 00	1.0000793	1.0000870	1.0000948	1.0001028	1.0001110
129 37 30	1.0000729	1.0000804	1.0000881	1.0000960	1.0001040
129 40 00	1.0000666	1.0000740	1.0000816	1.0000893	1.0000972
129 42 30	1.0000604	1.0000677	1.0000751	1.0000827	1.0000905
129 45 00	1.0000543	1.0000615	1.0000688	1.0000763	1.0000839
129 47 30	1.0000484	1.0000554	1.0000626	1.0000699	1.0000774
129 50 00	1.0000426	1.0000494	1.0000565	1.0000637	1.0000711
129 52 30	1.0000369	1.0000436	1.0000505	1.0000576	1.0000648
129 55 00	1.0000313	1.0000379	1.0000447	1.0000516	1.0000587
129 57 30	1.0000258	1.0000323	1.0000389	1.0000458	1.0000527
130 00 00	1.0000204	1.0000268	1.0000333	1.0000400	1.0000469
130 02 30	1.0000152	1.0000214	1.0000278	1.0000344	1.0000411
130 05 00	1.0000101	1.0000162	1.0000224	1.0000289	1.0000354
130 07 30	1.0000051	1.0000111	1.0000172	1.0000235	1.0000299
130 10 00	1.0000002	1.0000060	1.0000120	1.0000182	1.0000245
130 12 30	0.9999955	1.0000012	1.0000070	1.0000130	1.0000192
130 15 00	0.9999908	0.9999964	1.0000021	1.0000080	1.0000140
130 17 30	0.9999863	0.9999917	0.9999973	1.0000031	1.0000090
130 20 00	0.9999819	0.9999872	0.9999926	0.9999983	1.0000040
130 22 30	0.9999776	0.9999828	0.9999881	0.9999936	0.9999992
130 25 00	0.9999734	0.9999784	0.9999836	0.9999890	0.9999945
130 27 30	0.9999694	0.9999743	0.9999793	0.9999845	0.9999899
130 30 00	0.9999654	0.9999702	0.9999751	0.9999802	0.9999854
130 32 30	0.9999616	0.9999662	0.9999710	0.9999760	0.9999811
130 35 00	0.9999579	0.9999624	0.9999670	0.9999719	0.9999768
130 37 30	0.9999543	0.9999587	0.9999632	0.9999679	0.9999727
130 40 00	0.9999508	0.9999550	0.9999594	0.9999640	0.9999687
130 42 30	0.9999475	0.9999516	0.9999558	0.9999602	0.9999648
130 45 00	0.9999442	0.9999482	0.9999523	0.9999566	0.9999610
130 47 30	0.9999411	0.9999449	0.9999489	0.9999530	0.9999574
130 50 00	0.9999381	0.9999418	0.9999456	0.9999496	0.9999538
130 52 30	0.9999352	0.9999387	0.9999425	0.9999463	0.9999504
130 55 00	0.9999324	0.9999358	0.9999394	0.9999431	0.9999471
130 57 30	0.9999298	0.9999330	0.9999365	0.9999401	0.9999438
131 00 00	0.9999272	0.9999303	0.9999336	0.9999371	0.9999408
131 02 30	0.9999248	0.9999278	0.9999309	0.9999343	0.9999378
131 05 00	0.9999225	0.9999253	0.9999283	0.9999315	0.9999349
131 07 30	0.9999203	0.9999230	0.9999259	0.9999289	0.9999322
131 10 00	0.9999182	0.9999208	0.9999235	0.9999264	0.9999295
131 12 30	0.9999162	0.9999186	0.9999213	0.9999240	0.9999270
131 15 00	0.9999143	0.9999166	0.9999191	0.9999218	0.9999246
131 17 30	0.9999126	0.9999148	0.9999171	0.9999196	0.9999223
131 20 00	0.9999110	0.9999130	0.9999152	0.9999176	0.9999201
131 22 30	0.9999094	0.9999113	0.9999134	0.9999156	0.9999181
131 25 00	0.9999080	0.9999098	0.9999117	0.9999138	0.9999161
131 27 30	0.9999068	0.9999084	0.9999102	0.9999121	0.9999143
131 30 00	0.9999056	0.9999071	0.9999087	0.9999105	0.9999125
131 32 30	0.9999045	0.9999059	0.9999074	0.9999090	0.9999109
131 35 00	0.9999036	0.9999048	0.9999061	0.9999077	0.9999094
131 37 30	0.9999027	0.9999038	0.9999050	0.9999064	0.9999080
131 40 00	0.9999020	0.9999029	0.9999040	0.9999053	0.9999067
131 42 30	0.9999014	0.9999022	0.9999031	0.9999043	0.9999056
131 45 00	0.9999009	0.9999015	0.9999024	0.9999033	0.9999045
131 47 30	0.9999005	0.9999010	0.9999017	0.9999025	0.9999036
131 50 00	0.9999002	0.9999006	0.9999011	0.9999018	0.9999027
131 52 30	0.9999001	0.9999003	0.9999007	0.9999013	0.9999020
131 55 00	0.9999000	0.9999001	0.9999004	0.9999008	0.9999014
131 57 30	0.9999001	0.9999000	0.9999001	0.9999004	0.9999009
132 00 00	0.9999003	0.9999001	0.9999000	0.9999002	0.9999005

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	55 40 00	55 42 30	55 45 00	55 47 30	55 50 00
132 00 00	1 23 16.1	1 23 16.1	1 23 16.1	1 23 16.1	1 23 16.2
132 02 30	1 21 12.2	1 21 12.1	1 21 12.1	1 21 12.1	1 21 12.1
132 05 00	1 19 08.3	1 19 08.2	1 19 08.1	1 19 08.0	1 19 08.0
132 07 30	1 17 04.4	1 17 04.2	1 17 04.0	1 17 04.0	1 17 03.9
132 10 00	1 15 00.4	1 15 00.2	1 15 00.0	1 14 59.9	1 14 59.8
132 12 30	1 12 56.4	1 12 56.2	1 12 55.9	1 12 55.8	1 12 55.7
132 15 00	1 10 52.4	1 10 52.1	1 10 51.9	1 10 51.7	1 10 51.5
132 17 30	1 08 48.4	1 08 48.1	1 08 47.8	1 08 47.6	1 08 47.4
132 20 00	1 06 44.4	1 06 44.0	1 06 43.7	1 06 43.4	1 06 43.2
132 22 30	1 04 40.4	1 04 39.9	1 04 39.6	1 04 39.2	1 04 39.0
132 25 00	1 02 36.3	1 02 35.8	1 02 35.4	1 02 35.1	1 02 34.8
132 27 30	1 00 32.2	1 00 31.7	1 00 31.3	1 00 30.9	1 00 30.5
132 30 00	0 58 28.1	0 58 27.6	0 58 27.1	0 58 26.7	0 58 26.3
132 32 30	0 56 24.0	0 56 23.4	0 56 22.9	0 56 22.4	0 56 22.0
132 35 00	0 54 19.9	0 54 19.3	0 54 18.7	0 54 18.2	0 54 17.7
132 37 30	0 52 15.8	0 52 15.1	0 52 14.5	0 52 13.9	0 52 13.4
132 40 00	0 50 11.6	0 50 10.9	0 50 10.3	0 50 09.7	0 50 09.1
132 42 30	0 48 07.4	0 48 06.7	0 48 06.0	0 48 05.4	0 48 04.8
132 45 00	0 46 03.2	0 46 02.5	0 46 01.7	0 46 01.0	0 46 00.4
132 47 30	0 43 59.0	0 43 58.2	0 43 57.4	0 43 56.7	0 43 56.1
132 50 00	0 41 54.8	0 41 53.9	0 41 53.1	0 41 52.4	0 41 51.7
132 52 30	0 39 50.6	0 39 49.7	0 39 48.8	0 39 48.0	0 39 47.3
132 55 00	0 37 46.3	0 37 45.4	0 37 44.5	0 37 43.6	0 37 42.9
132 57 30	0 35 42.0	0 35 41.1	0 35 40.1	0 35 39.2	0 35 38.4
133 00 00	0 33 37.7	0 33 36.7	0 33 35.8	0 33 34.8	0 33 34.0
133 02 30	0 31 33.4	0 31 32.4	0 31 31.4	0 31 30.4	0 31 29.5
133 05 00	0 29 29.1	0 29 28.0	0 29 27.0	0 29 26.0	0 29 25.0
133 07 30	0 27 24.8	0 27 23.6	0 27 22.5	0 27 21.5	0 27 20.5
133 10 00	0 25 20.4	0 25 19.2	0 25 18.1	0 25 17.0	0 25 16.0
133 12 30	0 23 16.0	0 23 14.8	0 23 13.6	0 23 12.5	0 23 11.5
133 15 00	0 21 11.6	0 21 10.4	0 21 09.2	0 21 08.0	0 21 06.9
133 17 30	0 19 07.2	0 19 05.9	0 19 04.7	0 19 03.5	0 19 02.4
133 20 00	0 17 02.8	0 17 01.5	0 17 00.2	0 16 58.9	0 16 57.8
133 22 30	0 14 58.3	0 14 57.0	0 14 55.7	0 14 54.4	0 14 53.2
133 25 00	0 12 53.9	0 12 52.5	0 12 51.1	0 12 49.8	0 12 48.5
133 27 30	0 10 49.4	0 10 48.0	0 10 46.6	0 10 45.2	0 10 43.9
133 30 00	0 08 44.9	0 08 43.4	0 08 42.0	0 08 40.6	0 08 39.3
133 32 30	0 06 40.4	0 06 38.9	0 06 37.4	0 06 36.0	0 06 34.6
133 35 00	0 04 35.9	0 04 34.3	0 04 32.8	0 04 31.3	0 04 29.9
133 37 30	0 02 31.3	0 02 29.7	0 02 28.2	0 02 26.7	0 02 25.2
133 40 00	0 00 26.8	0 00 25.1	0 00 23.5	0 00 22.0	0 00 20.5
133 42 30	- 0 01 37.8	- 0 01 39.5	- 0 01 41.2	- 0 01 42.7	- 0 01 44.3
133 45 00	- 0 03 42.4	- 0 03 44.2	- 0 03 45.8	- 0 03 47.4	- 0 03 49.0
133 47 30	- 0 05 47.1	- 0 05 48.8	- 0 05 50.5	- 0 05 52.2	- 0 05 53.8
133 50 00	- 0 07 51.7	- 0 07 53.5	- 0 07 55.2	- 0 07 56.9	- 0 07 58.6
133 52 30	- 0 09 56.3	- 0 09 58.2	- 0 09 60.0	- 0 10 01.7	- 0 10 03.4
133 55 00	- 0 12 01.0	- 0 12 02.9	- 0 12 04.7	- 0 12 06.5	- 0 12 08.2
133 57 30	- 0 14 05.7	- 0 14 07.6	- 0 14 09.5	- 0 14 11.3	- 0 14 13.0
134 00 00	- 0 16 10.4	- 0 16 12.4	- 0 16 14.3	- 0 16 16.1	- 0 16 17.9
134 02 30	- 0 18 15.1	- 0 18 17.1	- 0 18 19.1	- 0 18 20.9	- 0 18 22.8
134 05 00	- 0 20 19.9	- 0 20 21.9	- 0 20 23.9	- 0 20 25.8	- 0 20 27.7
134 07 30	- 0 22 24.6	- 0 22 26.7	- 0 22 28.7	- 0 22 30.7	- 0 22 32.6
134 10 00	- 0 24 29.4	- 0 24 31.5	- 0 24 33.5	- 0 24 35.5	- 0 24 37.5
134 12 30	- 0 26 34.2	- 0 26 36.3	- 0 26 38.4	- 0 26 40.5	- 0 26 42.4
134 15 00	- 0 28 39.0	- 0 28 41.2	- 0 28 43.3	- 0 28 45.4	- 0 28 47.4
134 17 30	- 0 30 43.8	- 0 30 46.0	- 0 30 48.2	- 0 30 50.3	- 0 30 52.4
134 20 00	- 0 32 48.7	- 0 32 50.9	- 0 32 53.1	- 0 32 55.3	- 0 32 57.4
134 22 30	- 0 34 53.5	- 0 34 55.8	- 0 34 58.1	- 0 35 00.2	- 0 35 02.4
134 25 00	- 0 36 58.4	- 0 37 00.7	- 0 37 03.0	- 0 37 05.2	- 0 37 07.4
134 27 30	- 0 39 03.3	- 0 39 05.7	- 0 39 08.0	- 0 39 10.3	- 0 39 12.5
134 30 00	- 0 41 08.2	- 0 41 10.6	- 0 41 13.0	- 0 41 15.3	- 0 41 17.5

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277\times10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	55 40 00	55 42 30	55 45 00	55 47 30	55 50 00
132 00 00	0.9999003	0.9999001	0.9999000	0.9999002	0.9999005
132 02 30	0.9999006	0.9999002	0.9999000	0.9999001	0.9999002
132 05 00	0.9999010	0.9999005	0.9999002	0.9999000	0.9999001
132 07 30	0.9999015	0.9999008	0.9999004	0.9999001	0.9999000
132 10 00	0.9999021	0.9999013	0.9999007	0.9999003	0.9999001
132 12 30	0.9999028	0.9999019	0.9999012	0.9999006	0.9999002
132 15 00	0.9999037	0.9999026	0.9999017	0.9999010	0.9999005
132 17 30	0.9999046	0.9999034	0.9999024	0.9999016	0.9999009
132 20 00	0.9999057	0.9999043	0.9999032	0.9999022	0.9999014
132 22 30	0.9999068	0.9999054	0.9999041	0.9999029	0.9999020
132 25 00	0.9999081	0.9999065	0.9999051	0.9999038	0.9999027
132 27 30	0.9999095	0.9999078	0.9999062	0.9999048	0.9999035
132 30 00	0.9999110	0.9999091	0.9999074	0.9999059	0.9999045
132 32 30	0.9999126	0.9999106	0.9999087	0.9999070	0.9999055
132 35 00	0.9999144	0.9999122	0.9999102	0.9999083	0.9999067
132 37 30	0.9999162	0.9999139	0.9999117	0.9999097	0.9999079
132 40 00	0.9999182	0.9999157	0.9999134	0.9999112	0.9999093
132 42 30	0.9999202	0.9999176	0.9999151	0.9999129	0.9999108
132 45 00	0.9999224	0.9999196	0.9999170	0.9999146	0.9999124
132 47 30	0.9999246	0.9999217	0.9999190	0.9999164	0.9999141
132 50 00	0.9999270	0.9999240	0.9999211	0.9999184	0.9999159
132 52 30	0.9999295	0.9999263	0.9999233	0.9999204	0.9999178
132 55 00	0.9999321	0.9999288	0.9999256	0.9999226	0.9999198
132 57 30	0.9999348	0.9999313	0.9999280	0.9999249	0.9999219
133 00 00	0.9999376	0.9999340	0.9999305	0.9999273	0.9999242
133 02 30	0.9999405	0.9999368	0.9999332	0.9999298	0.9999265
133 05 00	0.9999436	0.9999397	0.9999359	0.9999323	0.9999290
133 07 30	0.9999467	0.9999426	0.9999388	0.9999351	0.9999315
133 10 00	0.9999500	0.9999457	0.9999417	0.9999379	0.9999342
133 12 30	0.9999533	0.9999490	0.9999448	0.9999408	0.9999370
133 15 00	0.9999568	0.9999523	0.9999479	0.9999438	0.9999398
133 17 30	0.9999604	0.9999557	0.9999512	0.9999469	0.9999428
133 20 00	0.9999640	0.9999592	0.9999546	0.9999502	0.9999459
133 22 30	0.9999678	0.9999629	0.9999581	0.9999535	0.9999491
133 25 00	0.9999717	0.9999666	0.9999617	0.9999570	0.9999524
133 27 30	0.9999757	0.9999704	0.9999654	0.9999605	0.9999558
133 30 00	0.9999798	0.9999744	0.9999692	0.9999642	0.9999594
133 32 30	0.9999840	0.9999785	0.9999731	0.9999680	0.9999630
133 35 00	0.9999883	0.9999826	0.9999771	0.9999718	0.9999667
133 37 30	0.9999927	0.9999869	0.9999813	0.9999758	0.9999705
133 40 00	0.9999973	0.9999913	0.9999855	0.9999799	0.9999745
133 42 30	1.0000019	0.9999958	0.9999898	0.9999841	0.9999785
133 45 00	1.0000066	1.0000004	0.9999943	0.9999884	0.9999827
133 47 30	1.0000115	1.0000051	0.9999988	0.9999928	0.9999869
133 50 00	1.0000164	1.0000099	1.0000035	0.9999973	0.9999913
133 52 30	1.0000215	1.0000148	1.0000082	1.0000019	0.9999957
133 55 00	1.0000267	1.0000198	1.0000131	1.0000066	1.0000003
133 57 30	1.0000319	1.0000249	1.0000181	1.0000114	1.0000050
134 00 00	1.0000373	1.0000301	1.0000231	1.0000164	1.0000098
134 02 30	1.0000428	1.0000355	1.0000283	1.0000214	1.0000146
134 05 00	1.0000484	1.0000409	1.0000336	1.0000265	1.0000196
134 07 30	1.0000540	1.0000464	1.0000390	1.0000318	1.0000247
134 10 00	1.0000598	1.0000521	1.0000445	1.0000371	1.0000299
134 12 30	1.0000657	1.0000578	1.0000501	1.0000425	1.0000352
134 15 00	1.0000717	1.0000636	1.0000558	1.0000481	1.0000406
134 17 30	1.0000778	1.0000696	1.0000616	1.0000537	1.0000461
134 20 00	1.0000840	1.0000757	1.0000675	1.0000595	1.0000517
134 22 30	1.0000903	1.0000818	1.0000735	1.0000653	1.0000574
134 25 00	1.0000967	1.0000881	1.0000796	1.0000713	1.0000632
134 27 30	1.0001033	1.0000944	1.0000858	1.0000774	1.0000691
134 30 00	1.0001099	1.0001009	1.0000921	1.0000835	1.0000751

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	55 50 00	55 52 30	55 55 00	55 57 30	56 00 00
129 30 00	3 26 51.5	3 26 54.1	3 26 56.9	3 26 59.6	3 27 02.5
129 32 30	3 24 48.3	3 24 51.0	3 24 53.6	3 24 56.4	3 24 59.2
129 35 00	3 22 45.2	3 22 47.8	3 22 50.4	3 22 53.1	3 22 55.8
129 37 30	3 20 42.0	3 20 44.6	3 20 47.2	3 20 49.8	3 20 52.5
129 40 00	3 18 38.8	3 18 41.3	3 18 43.9	3 18 46.5	3 18 49.2
129 42 30	3 16 35.6	3 16 38.1	3 16 40.6	3 16 43.2	3 16 45.8
129 45 00	3 14 32.4	3 14 34.9	3 14 37.3	3 14 39.8	3 14 42.4
129 47 30	3 12 29.2	3 12 31.6	3 12 34.0	3 12 36.5	3 12 39.0
129 50 00	3 10 26.0	3 10 28.3	3 10 30.7	3 10 33.1	3 10 35.6
129 52 30	3 08 22.7	3 08 25.0	3 08 27.3	3 08 29.7	3 08 32.2
129 55 00	3 06 19.5	3 06 21.7	3 06 24.0	3 06 26.3	3 06 28.7
129 57 30	3 04 16.2	3 04 18.4	3 04 20.6	3 04 22.9	3 04 25.3
130 00 00	3 02 12.9	3 02 15.0	3 02 17.2	3 02 19.5	3 02 21.8
130 02 30	3 00 09.6	3 00 11.7	3 00 13.8	3 00 16.0	3 00 18.3
130 05 00	2 58 06.2	2 58 08.3	2 58 10.4	2 58 12.6	2 58 14.8
130 07 30	2 56 02.9	2 56 04.9	2 56 07.0	2 56 09.1	2 56 11.3
130 10 00	2 53 59.5	2 54 01.5	2 54 03.5	2 54 05.6	2 54 07.8
130 12 30	2 51 56.1	2 51 58.1	2 52 00.1	2 52 02.1	2 52 04.2
130 15 00	2 49 52.8	2 49 54.7	2 49 56.6	2 49 58.6	2 50 00.7
130 17 30	2 47 49.3	2 47 51.2	2 47 53.1	2 47 55.1	2 47 57.1
130 20 00	2 45 45.9	2 45 47.7	2 45 49.6	2 45 51.5	2 45 53.5
130 22 30	2 43 42.5	2 43 44.3	2 43 46.1	2 43 48.0	2 43 49.9
130 25 00	2 41 39.0	2 41 40.8	2 41 42.5	2 41 44.4	2 41 46.3
130 27 30	2 39 35.6	2 39 37.3	2 39 39.0	2 39 40.8	2 39 42.6
130 30 00	2 37 32.1	2 37 33.7	2 37 35.4	2 37 37.2	2 37 39.0
130 32 30	2 35 28.6	2 35 30.2	2 35 31.8	2 35 33.5	2 35 35.3
130 35 00	2 33 25.1	2 33 26.6	2 33 28.2	2 33 29.9	2 33 31.6
130 37 30	2 31 21.5	2 31 23.1	2 31 24.6	2 31 26.2	2 31 27.9
130 40 00	2 29 18.0	2 29 19.5	2 29 21.0	2 29 22.6	2 29 24.2
130 42 30	2 27 14.4	2 27 15.9	2 27 17.3	2 27 18.9	2 27 20.5
130 45 00	2 25 10.9	2 25 12.2	2 25 13.7	2 25 15.2	2 25 16.7
130 47 30	2 23 07.3	2 23 08.6	2 23 10.0	2 23 11.5	2 23 13.0
130 50 00	2 21 03.7	2 21 05.0	2 21 06.3	2 21 07.7	2 21 09.2
130 52 30	2 19 00.0	2 19 01.3	2 19 02.6	2 19 04.0	2 19 05.4
130 55 00	2 16 56.4	2 16 57.6	2 16 58.9	2 17 00.2	2 17 01.6
130 57 30	2 14 52.7	2 14 53.9	2 14 55.2	2 14 56.4	2 14 57.8
131 00 00	2 12 49.1	2 12 50.2	2 12 51.4	2 12 52.6	2 12 53.9
131 02 30	2 10 45.4	2 10 46.5	2 10 47.6	2 10 48.8	2 10 50.1
131 05 00	2 08 41.7	2 08 42.7	2 08 43.8	2 08 45.0	2 08 46.2
131 07 30	2 06 38.0	2 06 39.0	2 06 40.0	2 06 41.2	2 06 42.3
131 10 00	2 04 34.2	2 04 35.2	2 04 36.2	2 04 37.3	2 04 38.4
131 12 30	2 02 30.5	2 02 31.4	2 02 32.4	2 02 33.4	2 02 34.5
131 15 00	2 00 26.7	2 00 27.6	2 00 28.5	2 00 29.5	2 00 30.6
131 17 30	1 58 22.9	1 58 23.8	1 58 24.7	1 58 25.6	1 58 26.6
131 20 00	1 56 19.1	1 56 19.9	1 56 20.8	1 56 21.7	1 56 22.7
131 22 30	1 54 15.3	1 54 16.1	1 54 16.9	1 54 17.8	1 54 18.7
131 25 00	1 52 11.5	1 52 12.2	1 52 13.0	1 52 13.8	1 52 14.7
131 27 30	1 50 07.6	1 50 08.3	1 50 09.1	1 50 09.8	1 50 10.7
131 30 00	1 48 03.8	1 48 04.4	1 48 05.1	1 48 05.9	1 48 06.6
131 32 30	1 45 59.9	1 46 00.5	1 46 01.2	1 46 01.9	1 46 02.6
131 35 00	1 43 56.0	1 43 56.6	1 43 57.2	1 43 57.8	1 43 58.5
131 37 30	1 41 52.1	1 41 52.6	1 41 53.2	1 41 53.8	1 41 54.5
131 40 00	1 39 48.2	1 39 48.7	1 39 49.2	1 39 49.8	1 39 50.4
131 42 30	1 37 44.2	1 37 44.7	1 37 45.2	1 37 45.7	1 37 46.3
131 45 00	1 35 40.3	1 35 40.7	1 35 41.1	1 35 41.6	1 35 42.2
131 47 30	1 33 36.3	1 33 36.7	1 33 37.1	1 33 37.5	1 33 38.0
131 50 00	1 31 32.3	1 31 32.6	1 31 33.0	1 31 33.4	1 31 33.9
131 52 30	1 29 28.3	1 29 28.6	1 29 28.9	1 29 29.3	1 29 29.7
131 55 00	1 27 24.3	1 27 24.5	1 27 24.8	1 27 25.1	1 27 25.5
131 57 30	1 25 20.3	1 25 20.4	1 25 20.7	1 25 21.0	1 25 21.3
132 00 00	1 23 16.2	1 23 16.3	1 23 16.5	1 23 16.8	1 23 17.1

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	55 50 00	55 52 30	55 55 00	55 57 30	56 00 00
129 30 00	1.0001252	1.0001338	1.0001425	1.0001514	1.0001605
129 32 30	1.0001180	1.0001265	1.0001351	1.0001438	1.0001528
129 35 00	1.0001110	1.0001193	1.0001277	1.0001364	1.0001452
129 37 30	1.0001040	1.0001122	1.0001205	1.0001291	1.0001377
129 40 00	1.0000972	1.0001052	1.0001135	1.0001218	1.0001304
129 42 30	1.0000905	1.0000984	1.0001065	1.0001147	1.0001232
129 45 00	1.0000839	1.0000917	1.0000996	1.0001078	1.0001160
129 47 30	1.0000774	1.0000851	1.0000929	1.0001009	1.0001091
129 50 00	1.0000711	1.0000786	1.0000863	1.0000942	1.0001022
129 52 30	1.0000648	1.0000722	1.0000798	1.0000875	1.0000954
129 55 00	1.0000587	1.0000660	1.0000734	1.0000810	1.0000888
129 57 30	1.0000527	1.0000599	1.0000672	1.0000747	1.0000823
130 00 00	1.0000469	1.0000539	1.0000610	1.0000684	1.0000759
130 02 30	1.0000411	1.0000480	1.0000550	1.0000622	1.0000696
130 05 00	1.0000354	1.0000422	1.0000491	1.0000562	1.0000634
130 07 30	1.0000299	1.0000365	1.0000433	1.0000503	1.0000574
130 10 00	1.0000245	1.0000310	1.0000376	1.0000445	1.0000514
130 12 30	1.0000192	1.0000256	1.0000321	1.0000388	1.0000456
130 15 00	1.0000140	1.0000203	1.0000267	1.0000332	1.0000399
130 17 30	1.0000090	1.0000151	1.0000213	1.0000278	1.0000343
130 20 00	1.0000040	1.0000100	1.0000161	1.0000224	1.0000289
130 22 30	0.9999992	1.0000050	1.0000110	1.0000172	1.0000235
130 25 00	0.9999945	1.0000002	1.0000061	1.0000121	1.0000183
130 27 30	0.9999899	0.9999955	1.0000012	1.0000071	1.0000132
130 30 00	0.9999854	0.9999909	0.9999965	1.0000022	1.0000082
130 32 30	0.9999811	0.9999864	0.9999918	0.9999975	1.0000033
130 35 00	0.9999768	0.9999820	0.9999873	0.9999928	0.9999985
130 37 30	0.9999727	0.9999777	0.9999829	0.9999883	0.9999938
130 40 00	0.9999687	0.9999736	0.9999787	0.9999839	0.9999893
130 42 30	0.9999648	0.9999696	0.9999745	0.9999796	0.9999848
130 45 00	0.9999610	0.9999656	0.9999704	0.9999754	0.9999805
130 47 30	0.9999574	0.9999619	0.9999665	0.9999713	0.9999763
130 50 00	0.9999538	0.9999582	0.9999627	0.9999674	0.9999722
130 52 30	0.9999504	0.9999546	0.9999590	0.9999635	0.9999683
130 55 00	0.9999471	0.9999511	0.9999554	0.9999598	0.9999644
130 57 30	0.9999438	0.9999478	0.9999519	0.9999562	0.9999607
131 00 00	0.9999408	0.9999446	0.9999485	0.9999527	0.9999570
131 02 30	0.9999378	0.9999415	0.9999453	0.9999493	0.9999535
131 05 00	0.9999349	0.9999385	0.9999422	0.9999460	0.9999501
131 07 30	0.9999322	0.9999356	0.9999391	0.9999429	0.9999468
131 10 00	0.9999295	0.9999328	0.9999362	0.9999398	0.9999436
131 12 30	0.9999270	0.9999301	0.9999334	0.9999369	0.9999406
131 15 00	0.9999246	0.9999276	0.9999308	0.9999341	0.9999376
131 17 30	0.9999223	0.9999252	0.9999282	0.9999314	0.9999348
131 20 00	0.9999201	0.9999228	0.9999257	0.9999288	0.9999320
131 22 30	0.9999181	0.9999206	0.9999234	0.9999263	0.9999294
131 25 00	0.9999161	0.9999185	0.9999212	0.9999240	0.9999269
131 27 30	0.9999143	0.9999166	0.9999190	0.9999217	0.9999245
131 30 00	0.9999125	0.9999147	0.9999170	0.9999196	0.9999223
131 32 30	0.9999109	0.9999129	0.9999152	0.9999175	0.9999201
131 35 00	0.9999094	0.9999113	0.9999134	0.9999156	0.9999180
131 37 30	0.9999080	0.9999098	0.9999117	0.9999138	0.9999161
131 40 00	0.9999067	0.9999084	0.9999101	0.9999121	0.9999143
131 42 30	0.9999056	0.9999070	0.9999087	0.9999105	0.9999125
131 45 00	0.9999045	0.9999059	0.9999074	0.9999091	0.9999109
131 47 30	0.9999036	0.9999048	0.9999062	0.9999077	0.9999094
131 50 00	0.9999027	0.9999038	0.9999050	0.9999065	0.9999081
131 52 30	0.9999020	0.9999029	0.9999040	0.9999053	0.9999068
131 55 00	0.9999014	0.9999022	0.9999032	0.9999043	0.9999056
131 57 30	0.9999009	0.9999016	0.9999024	0.9999034	0.9999046
132 00 00	0.9999005	0.9999010	0.9999017	0.9999026	0.9999036

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	55 50 00	55 52 30	55 55 00	55 57 30	56 00 00
132 00 00	1 23 16.2	1 23 16.3	1 23 16.5	1 23 16.8	1 23 17.1
132 02 30	1 21 12.1	1 21 12.2	1 21 12.4	1 21 12.6	1 21 12.9
132 05 00	1 19 08.0	1 19 08.1	1 19 08.2	1 19 08.4	1 19 08.6
132 07 30	1 17 03.9	1 17 04.0	1 17 04.0	1 17 04.2	1 17 04.4
132 10 00	1 14 59.8	1 14 59.8	1 14 59.8	1 14 59.9	1 15 00.1
132 12 30	1 12 55.7	1 12 55.6	1 12 55.6	1 12 55.7	1 12 55.8
132 15 00	1 10 51.5	1 10 51.4	1 10 51.4	1 10 51.4	1 10 51.5
132 17 30	1 08 47.4	1 08 47.2	1 08 47.1	1 08 47.1	1 08 47.1
132 20 00	1 06 43.2	1 06 43.0	1 06 42.9	1 06 42.8	1 06 42.8
132 22 30	1 04 39.0	1 04 38.8	1 04 38.6	1 04 38.5	1 04 38.4
132 25 00	1 02 34.8	1 02 34.5	1 02 34.3	1 02 34.1	1 02 34.0
132 27 30	1 00 30.5	1 00 30.2	1 00 30.0	1 00 29.8	1 00 29.6
132 30 00	0 58 26.3	0 58 25.9	0 58 25.7	0 58 25.4	0 58 25.2
132 32 30	0 56 22.0	0 56 21.6	0 56 21.3	0 56 21.0	0 56 20.8
132 35 00	0 54 17.7	0 54 17.3	0 54 16.9	0 54 16.6	0 54 16.4
132 37 30	0 52 13.4	0 52 13.0	0 52 12.6	0 52 12.2	0 52 11.9
132 40 00	0 50 09.1	0 50 08.6	0 50 08.2	0 50 07.8	0 50 07.4
132 42 30	0 48 04.8	0 48 04.2	0 48 03.8	0 48 03.3	0 48 02.9
132 45 00	0 46 00.4	0 45 59.8	0 45 59.3	0 45 58.8	0 45 58.4
132 47 30	0 43 56.1	0 43 55.4	0 43 54.9	0 43 54.4	0 43 53.9
132 50 00	0 41 51.7	0 41 51.0	0 41 50.4	0 41 49.9	0 41 49.4
132 52 30	0 39 47.3	0 39 46.6	0 39 45.9	0 39 45.3	0 39 44.8
132 55 00	0 37 42.9	0 37 42.1	0 37 41.4	0 37 40.8	0 37 40.2
132 57 30	0 35 38.4	0 35 37.6	0 35 36.9	0 35 36.3	0 35 35.6
133 00 00	0 33 34.0	0 33 33.2	0 33 32.4	0 33 31.7	0 33 31.0
133 02 30	0 31 29.5	0 31 28.7	0 31 27.9	0 31 27.1	0 31 26.4
133 05 00	0 29 25.0	0 29 24.1	0 29 23.3	0 29 22.5	0 29 21.8
133 07 30	0 27 20.5	0 27 19.6	0 27 18.7	0 27 17.9	0 27 17.1
133 10 00	0 25 16.0	0 25 15.0	0 25 14.1	0 25 13.2	0 25 12.4
133 12 30	0 23 11.5	0 23 10.5	0 23 09.5	0 23 08.6	0 23 07.7
133 15 00	0 21 06.9	0 21 05.9	0 21 04.9	0 21 03.9	0 21 03.0
133 17 30	0 19 02.4	0 19 01.3	0 19 00.2	0 18 59.2	0 18 58.3
133 20 00	0 16 57.8	0 16 56.6	0 16 55.6	0 16 54.5	0 16 53.6
133 22 30	0 14 53.2	0 14 52.0	0 14 50.9	0 14 49.8	0 14 48.8
133 25 00	0 12 48.5	0 12 47.3	0 12 46.2	0 12 45.1	0 12 44.0
133 27 30	0 10 43.9	0 10 42.7	0 10 41.5	0 10 40.3	0 10 39.3
133 30 00	0 08 39.3	0 08 38.0	0 08 36.7	0 08 35.6	0 08 34.4
133 32 30	0 06 34.6	0 06 33.3	0 06 32.0	0 06 30.8	0 06 29.6
133 35 00	0 04 29.9	0 04 28.5	0 04 27.2	0 04 26.0	0 04 24.8
133 37 30	0 02 25.2	0 02 23.8	0 02 22.5	0 02 21.2	0 02 19.9
133 40 00	0 00 20.5	0 00 19.0	0 00 17.7	0 00 16.3	0 00 15.0
133 42 30	- 0 01 44.3	- 0 01 45.7	- 0 01 47.2	- 0 01 48.5	- 0 01 49.8
133 45 00	- 0 03 49.0	- 0 03 50.5	- 0 03 52.0	- 0 03 53.4	- 0 03 54.8
133 47 30	- 0 05 53.8	- 0 05 55.3	- 0 05 56.8	- 0 05 58.3	- 0 05 59.7
133 50 00	- 0 07 58.6	- 0 08 00.2	- 0 08 01.7	- 0 08 03.2	- 0 08 04.6
133 52 30	- 0 10 03.4	- 0 10 05.0	- 0 10 06.6	- 0 10 08.1	- 0 10 09.6
133 55 00	- 0 12 08.2	- 0 12 09.9	- 0 12 11.5	- 0 12 13.0	- 0 12 14.6
133 57 30	- 0 14 13.0	- 0 14 14.7	- 0 14 16.4	- 0 14 18.0	- 0 14 19.5
134 00 00	- 0 16 17.9	- 0 16 19.6	- 0 16 21.3	- 0 16 23.0	- 0 16 24.6
134 02 30	- 0 18 22.8	- 0 18 24.6	- 0 18 26.3	- 0 18 28.0	- 0 18 29.6
134 05 00	- 0 20 27.7	- 0 20 29.5	- 0 20 31.2	- 0 20 33.0	- 0 20 34.6
134 07 30	- 0 22 32.6	- 0 22 34.4	- 0 22 36.2	- 0 22 38.0	- 0 22 39.7
134 10 00	- 0 24 37.5	- 0 24 39.4	- 0 24 41.2	- 0 24 43.0	- 0 24 44.8
134 12 30	- 0 26 42.4	- 0 26 44.4	- 0 26 46.3	- 0 26 48.1	- 0 26 49.9
134 15 00	- 0 28 47.4	- 0 28 49.4	- 0 28 51.3	- 0 28 53.2	- 0 28 55.0
134 17 30	- 0 30 52.4	- 0 30 54.4	- 0 30 56.3	- 0 30 58.2	- 0 31 00.1
134 20 00	- 0 32 57.4	- 0 32 59.4	- 0 33 01.4	- 0 33 03.4	- 0 33 05.2
134 22 30	- 0 35 02.4	- 0 35 04.5	- 0 35 06.5	- 0 35 08.5	- 0 35 10.4
134 25 00	- 0 37 07.4	- 0 37 09.5	- 0 37 11.6	- 0 37 13.6	- 0 37 15.6
134 27 30	- 0 39 12.5	- 0 39 14.6	- 0 39 16.7	- 0 39 18.8	- 0 39 20.8
134 30 00	- 0 41 17.5	- 0 41 19.7	- 0 41 21.9	- 0 41 24.0	- 0 41 26.0

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	55 50 00	55 52 30	55 55 00	55 57 30	56 00 00
132 00 00	0.9999005	0.9999010	0.9999017	0.9999026	0.9999036
132 02 30	0.9999002	0.9999006	0.9999012	0.9999019	0.9999028
132 05 00	0.9999001	0.9999003	0.9999007	0.9999013	0.9999021
132 07 30	0.9999000	0.9999001	0.9999004	0.9999008	0.9999014
132 10 00	0.9999001	0.9999000	0.9999001	0.9999005	0.9999009
132 12 30	0.9999002	0.9999000	0.9999000	0.9999002	0.9999005
132 15 00	0.9999005	0.9999002	0.9999000	0.9999001	0.9999003
132 17 30	0.9999009	0.9999004	0.9999001	0.9999000	0.9999001
132 20 00	0.9999014	0.9999008	0.9999003	0.9999001	0.9999000
132 22 30	0.9999020	0.9999013	0.9999007	0.9999003	0.9999001
132 25 00	0.9999027	0.9999018	0.9999011	0.9999006	0.9999002
132 27 30	0.9999035	0.9999025	0.9999016	0.9999010	0.9999005
132 30 00	0.9999045	0.9999033	0.9999023	0.9999015	0.9999008
132 32 30	0.9999055	0.9999042	0.9999031	0.9999021	0.9999013
132 35 00	0.9999067	0.9999052	0.9999039	0.9999028	0.9999019
132 37 30	0.9999079	0.9999063	0.9999049	0.9999037	0.9999026
132 40 00	0.9999093	0.9999076	0.9999060	0.9999046	0.9999034
132 42 30	0.9999108	0.9999089	0.9999072	0.9999057	0.9999043
132 45 00	0.9999124	0.9999103	0.9999085	0.9999068	0.9999053
132 47 30	0.9999141	0.9999119	0.9999099	0.9999081	0.9999065
132 50 00	0.9999159	0.9999136	0.9999114	0.9999095	0.9999077
132 52 30	0.9999178	0.9999153	0.9999130	0.9999109	0.9999090
132 55 00	0.9999198	0.9999172	0.9999148	0.9999125	0.9999105
132 57 30	0.9999219	0.9999192	0.9999166	0.9999142	0.9999120
133 00 00	0.9999242	0.9999213	0.9999186	0.9999160	0.9999137
133 02 30	0.9999265	0.9999235	0.9999206	0.9999179	0.9999155
133 05 00	0.9999290	0.9999258	0.9999228	0.9999200	0.9999173
133 07 30	0.9999315	0.9999282	0.9999251	0.9999221	0.9999193
133 10 00	0.9999342	0.9999307	0.9999274	0.9999243	0.9999214
133 12 30	0.9999370	0.9999333	0.9999299	0.9999267	0.9999236
133 15 00	0.9999398	0.9999361	0.9999325	0.9999291	0.9999259
133 17 30	0.9999428	0.9999389	0.9999352	0.9999317	0.9999283
133 20 00	0.9999459	0.9999419	0.9999380	0.9999343	0.9999308
133 22 30	0.9999491	0.9999449	0.9999409	0.9999371	0.9999334
133 25 00	0.9999524	0.9999481	0.9999439	0.9999400	0.9999362
133 27 30	0.9999558	0.9999513	0.9999470	0.9999429	0.9999390
133 30 00	0.9999594	0.9999547	0.9999503	0.9999460	0.9999419
133 32 30	0.9999630	0.9999582	0.9999536	0.9999492	0.9999450
133 35 00	0.9999667	0.9999618	0.9999570	0.9999525	0.9999481
133 37 30	0.9999705	0.9999655	0.9999606	0.9999559	0.9999514
133 40 00	0.9999745	0.9999693	0.9999642	0.9999594	0.9999547
133 42 30	0.9999785	0.9999732	0.9999680	0.9999630	0.9999582
133 45 00	0.9999827	0.9999772	0.9999718	0.9999667	0.9999617
133 47 30	0.9999869	0.9999813	0.9999758	0.9999705	0.9999654
133 50 00	0.9999913	0.9999855	0.9999798	0.9999744	0.9999692
133 52 30	0.9999957	0.9999898	0.9999840	0.9999784	0.9999731
133 55 00	1.0000003	0.9999942	0.9999883	0.9999826	0.9999770
133 57 30	1.0000050	0.9999987	0.9999927	0.9999868	0.9999811
134 00 00	1.0000098	1.0000034	0.9999971	0.9999911	0.9999853
134 02 30	1.0000146	1.0000081	1.0000017	0.9999956	0.9999896
134 05 00	1.0000196	1.0000129	1.0000064	1.0000001	0.9999940
134 07 30	1.0000247	1.0000179	1.0000112	1.0000047	0.9999985
134 10 00	1.0000299	1.0000229	1.0000161	1.0000095	1.0000031
134 12 30	1.0000352	1.0000281	1.0000211	1.0000143	1.0000078
134 15 00	1.0000406	1.0000333	1.0000262	1.0000193	1.0000126
134 17 30	1.0000461	1.0000387	1.0000314	1.0000244	1.0000175
134 20 00	1.0000517	1.0000441	1.0000367	1.0000295	1.0000225
134 22 30	1.0000574	1.0000497	1.0000421	1.0000348	1.0000276
134 25 00	1.0000632	1.0000553	1.0000476	1.0000401	1.0000328
134 27 30	1.0000691	1.0000611	1.0000532	1.0000456	1.0000381
134 30 00	1.0000751	1.0000670	1.0000590	1.0000512	1.0000436

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	56 00 00	56 02 30	56 05 00	56 07 30	56 10 00
129 30 00	3 27 02.5	3 27 05.4	3 27 08.3	3 27 11.3	3 27 14.3
129 32 30	3 24 59.2	3 25 02.0	3 25 04.9	3 25 07.8	3 25 10.8
129 35 00	3 22 55.8	3 22 58.6	3 23 01.5	3 23 04.4	3 23 07.3
129 37 30	3 20 52.5	3 20 55.3	3 20 58.1	3 21 00.9	3 21 03.8
129 40 00	3 18 49.2	3 18 51.9	3 18 54.6	3 18 57.4	3 19 00.3
129 42 30	3 16 45.8	3 16 48.5	3 16 51.2	3 16 53.9	3 16 56.7
129 45 00	3 14 42.4	3 14 45.0	3 14 47.7	3 14 50.4	3 14 53.2
129 47 30	3 12 39.0	3 12 41.6	3 12 44.2	3 12 46.9	3 12 49.6
129 50 00	3 10 35.6	3 10 38.1	3 10 40.7	3 10 43.3	3 10 46.0
129 52 30	3 08 32.2	3 08 34.7	3 08 37.2	3 08 39.8	3 08 42.4
129 55 00	3 06 28.7	3 06 31.2	3 06 33.7	3 06 36.2	3 06 38.8
129 57 30	3 04 25.3	3 04 27.7	3 04 30.1	3 04 32.6	3 04 35.2
130 00 00	3 02 21.8	3 02 24.2	3 02 26.6	3 02 29.0	3 02 31.5
130 02 30	3 00 18.3	3 00 20.6	3 00 23.0	3 00 25.4	3 00 27.9
130 05 00	2 58 14.8	2 58 17.1	2 58 19.4	2 58 21.8	2 58 24.2
130 07 30	2 56 11.3	2 56 13.5	2 56 15.8	2 56 18.1	2 56 20.5
130 10 00	2 54 07.8	2 54 10.0	2 54 12.2	2 54 14.5	2 54 16.8
130 12 30	2 52 04.2	2 52 06.4	2 52 08.6	2 52 10.8	2 52 13.1
130 15 00	2 50 00.7	2 50 02.8	2 50 04.9	2 50 07.1	2 50 09.4
130 17 30	2 47 57.1	2 47 59.1	2 48 01.2	2 48 03.4	2 48 05.6
130 20 00	2 45 53.5	2 45 55.5	2 45 57.6	2 45 59.7	2 46 01.9
130 22 30	2 43 49.9	2 43 51.9	2 43 53.9	2 43 56.0	2 43 58.1
130 25 00	2 41 46.3	2 41 48.2	2 41 50.2	2 41 52.2	2 41 54.3
130 27 30	2 39 42.6	2 39 44.5	2 39 46.4	2 39 48.4	2 39 50.5
130 30 00	2 37 39.0	2 37 40.8	2 37 42.7	2 37 44.7	2 37 46.7
130 32 30	2 35 35.3	2 35 37.1	2 35 39.0	2 35 40.9	2 35 42.8
130 35 00	2 33 31.6	2 33 33.4	2 33 35.2	2 33 37.1	2 33 39.0
130 37 30	2 31 27.9	2 31 29.6	2 31 31.4	2 31 33.2	2 31 35.1
130 40 00	2 29 24.2	2 29 25.9	2 29 27.6	2 29 29.4	2 29 31.2
130 42 30	2 27 20.5	2 27 22.1	2 27 23.8	2 27 25.5	2 27 27.3
130 45 00	2 25 16.7	2 25 18.3	2 25 20.0	2 25 21.7	2 25 23.4
130 47 30	2 23 13.0	2 23 14.5	2 23 16.1	2 23 17.8	2 23 19.5
130 50 00	2 21 09.2	2 21 10.7	2 21 12.3	2 21 13.9	2 21 15.5
130 52 30	2 19 05.4	2 19 06.9	2 19 08.4	2 19 09.9	2 19 11.6
130 55 00	2 17 01.6	2 17 03.0	2 17 04.5	2 17 06.0	2 17 07.6
130 57 30	2 14 57.8	2 14 59.1	2 15 00.6	2 15 02.1	2 15 03.6
131 00 00	2 12 53.9	2 12 55.3	2 12 56.7	2 12 58.1	2 12 59.6
131 02 30	2 10 50.1	2 10 51.4	2 10 52.7	2 10 54.1	2 10 55.6
131 05 00	2 08 46.2	2 08 47.5	2 08 48.8	2 08 50.1	2 08 51.5
131 07 30	2 06 42.3	2 06 43.5	2 06 44.8	2 06 46.1	2 06 47.5
131 10 00	2 04 38.4	2 04 39.6	2 04 40.8	2 04 42.1	2 04 43.4
131 12 30	2 02 34.5	2 02 35.6	2 02 36.8	2 02 38.1	2 02 39.3
131 15 00	2 00 30.6	2 00 31.7	2 00 32.8	2 00 34.0	2 00 35.2
131 17 30	1 58 26.6	1 58 27.7	1 58 28.8	1 58 29.9	1 58 31.1
131 20 00	1 56 22.7	1 56 23.7	1 56 24.7	1 56 25.8	1 56 27.0
131 22 30	1 54 18.7	1 54 19.6	1 54 20.7	1 54 21.7	1 54 22.9
131 25 00	1 52 14.7	1 52 15.6	1 52 16.6	1 52 17.6	1 52 18.7
131 27 30	1 50 10.7	1 50 11.6	1 50 12.5	1 50 13.5	1 50 14.5
131 30 00	1 48 06.6	1 48 07.5	1 48 08.4	1 48 09.3	1 48 10.3
131 32 30	1 46 02.6	1 46 03.4	1 46 04.3	1 46 05.2	1 46 06.1
131 35 00	1 43 58.5	1 43 59.3	1 44 00.1	1 44 01.0	1 44 01.9
131 37 30	1 41 54.5	1 41 55.2	1 41 56.0	1 41 56.8	1 41 57.7
131 40 00	1 39 50.4	1 39 51.1	1 39 51.8	1 39 52.6	1 39 53.4
131 42 30	1 37 46.3	1 37 46.9	1 37 47.6	1 37 48.4	1 37 49.1
131 45 00	1 35 42.2	1 35 42.8	1 35 43.4	1 35 44.1	1 35 44.9
131 47 30	1 33 38.0	1 33 38.6	1 33 39.2	1 33 39.8	1 33 40.6
131 50 00	1 31 33.9	1 31 34.4	1 31 35.0	1 31 35.6	1 31 36.2
131 52 30	1 29 29.7	1 29 30.2	1 29 30.7	1 29 31.3	1 29 31.9
131 55 00	1 27 25.5	1 27 26.0	1 27 26.4	1 27 27.0	1 27 27.6
131 57 30	1 25 21.3	1 25 21.7	1 25 22.2	1 25 22.6	1 25 23.2
132 00 00	1 23 17.1	1 23 17.5	1 23 17.9	1 23 18.3	1 23 18.8

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	56 00 00	56 02 30	56 05 00	56 07 30	56 10 00
129 30 00	1.0001605	1.0001697	1.0001790	1.0001886	1.0001983
129 32 30	1.0001528	1.0001618	1.0001711	1.0001805	1.0001901
129 35 00	1.0001452	1.0001541	1.0001632	1.0001725	1.0001820
129 37 30	1.0001377	1.0001465	1.0001555	1.0001647	1.0001740
129 40 00	1.0001304	1.0001391	1.0001479	1.0001570	1.0001661
129 42 30	1.0001232	1.0001317	1.0001405	1.0001493	1.0001584
129 45 00	1.0001160	1.0001245	1.0001331	1.0001419	1.0001508
129 47 30	1.0001091	1.0001174	1.0001258	1.0001345	1.0001433
129 50 00	1.0001022	1.0001104	1.0001187	1.0001272	1.0001359
129 52 30	1.0000954	1.0001035	1.0001117	1.0001201	1.0001286
129 55 00	1.0000888	1.0000967	1.0001048	1.0001131	1.0001215
129 57 30	1.0000823	1.0000901	1.0000980	1.0001062	1.0001144
130 00 00	1.0000759	1.0000835	1.0000914	1.0000994	1.0001075
130 02 30	1.0000696	1.0000771	1.0000848	1.0000927	1.0001007
130 05 00	1.0000634	1.0000708	1.0000784	1.0000861	1.0000940
130 07 30	1.0000574	1.0000647	1.0000721	1.0000797	1.0000875
130 10 00	1.0000514	1.0000586	1.0000659	1.0000734	1.0000810
130 12 30	1.0000456	1.0000526	1.0000598	1.0000672	1.0000747
130 15 00	1.0000399	1.0000468	1.0000539	1.0000611	1.0000684
130 17 30	1.0000343	1.0000411	1.0000480	1.0000551	1.0000623
130 20 00	1.0000289	1.0000355	1.0000423	1.0000492	1.0000563
130 22 30	1.0000235	1.0000300	1.0000367	1.0000435	1.0000505
130 25 00	1.0000183	1.0000246	1.0000312	1.0000379	1.0000447
130 27 30	1.0000132	1.0000194	1.0000258	1.0000323	1.0000391
130 30 00	1.0000082	1.0000142	1.0000205	1.0000269	1.0000335
130 32 30	1.0000033	1.0000092	1.0000153	1.0000216	1.0000281
130 35 00	0.9999985	1.0000043	1.0000103	1.0000165	1.0000228
130 37 30	0.9999938	0.9999995	1.0000054	1.0000114	1.0000176
130 40 00	0.9999893	0.9999948	1.0000006	1.0000065	1.0000125
130 42 30	0.9999848	0.9999903	0.9999959	1.0000016	1.0000076
130 45 00	0.9999805	0.9999858	0.9999913	0.9999969	1.0000027
130 47 30	0.9999763	0.9999815	0.9999868	0.9999923	0.9999980
130 50 00	0.9999722	0.9999773	0.9999825	0.9999878	0.9999934
130 52 30	0.9999683	0.9999732	0.9999782	0.9999835	0.9999889
130 55 00	0.9999644	0.9999692	0.9999741	0.9999792	0.9999845
130 57 30	0.9999607	0.9999653	0.9999701	0.9999751	0.9999802
131 00 00	0.9999570	0.9999615	0.9999662	0.9999710	0.9999760
131 02 30	0.9999535	0.9999579	0.9999624	0.9999671	0.9999720
131 05 00	0.9999501	0.9999543	0.9999587	0.9999633	0.9999680
131 07 30	0.9999468	0.9999509	0.9999552	0.9999596	0.9999642
131 10 00	0.9999436	0.9999476	0.9999517	0.9999560	0.9999605
131 12 30	0.9999406	0.9999444	0.9999484	0.9999525	0.9999569
131 15 00	0.9999376	0.9999413	0.9999452	0.9999492	0.9999534
131 17 30	0.9999348	0.9999383	0.9999420	0.9999459	0.9999500
131 20 00	0.9999320	0.9999355	0.9999390	0.9999428	0.9999467
131 22 30	0.9999294	0.9999327	0.9999362	0.9999398	0.9999436
131 25 00	0.9999269	0.9999301	0.9999334	0.9999369	0.9999405
131 27 30	0.9999245	0.9999275	0.9999307	0.9999341	0.9999376
131 30 00	0.9999223	0.9999251	0.9999282	0.9999314	0.9999348
131 32 30	0.9999201	0.9999228	0.9999257	0.9999288	0.9999321
131 35 00	0.9999180	0.9999206	0.9999234	0.9999264	0.9999295
131 37 30	0.9999161	0.9999186	0.9999212	0.9999240	0.9999270
131 40 00	0.9999143	0.9999166	0.9999191	0.9999218	0.9999246
131 42 30	0.9999125	0.9999147	0.9999171	0.9999196	0.9999223
131 45 00	0.9999109	0.9999130	0.9999152	0.9999176	0.9999202
131 47 30	0.9999094	0.9999113	0.9999134	0.9999157	0.9999181
131 50 00	0.9999081	0.9999098	0.9999118	0.9999139	0.9999162
131 52 30	0.9999068	0.9999084	0.9999102	0.9999122	0.9999144
131 55 00	0.9999056	0.9999071	0.9999088	0.9999106	0.9999127
131 57 30	0.9999046	0.9999059	0.9999074	0.9999092	0.9999111
132 00 00	0.9999036	0.9999048	0.9999062	0.9999078	0.9999096

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	56 00 00	56 02 30	56 05 00	56 07 30	56 10 00
132 00 00	1 23 17.1	1 23 17.5	1 23 17.9	1 23 18.3	1 23 18.8
132 02 30	1 21 12.9	1 21 13.2	1 21 13.5	1 21 14.0	1 21 14.4
132 05 00	1 19 08.6	1 19 08.9	1 19 09.2	1 19 09.6	1 19 10.0
132 07 30	1 17 04.4	1 17 04.6	1 17 04.9	1 17 05.2	1 17 05.6
132 10 00	1 15 00.1	1 15 00.3	1 15 00.5	1 15 00.8	1 15 01.1
132 12 30	1 12 55.8	1 12 55.9	1 12 56.1	1 12 56.4	1 12 56.7
132 15 00	1 10 51.5	1 10 51.6	1 10 51.7	1 10 51.9	1 10 52.2
132 17 30	1 08 47.1	1 08 47.2	1 08 47.3	1 08 47.5	1 08 47.7
132 20 00	1 06 42.8	1 06 42.8	1 06 42.9	1 06 43.0	1 06 43.2
132 22 30	1 04 38.4	1 04 38.4	1 04 38.5	1 04 38.5	1 04 38.7
132 25 00	1 02 34.0	1 02 34.0	1 02 34.0	1 02 34.0	1 02 34.2
132 27 30	1 00 29.6	1 00 29.6	1 00 29.5	1 00 29.5	1 00 29.6
132 30 00	0 58 25.2	0 58 25.1	0 58 25.0	0 58 25.0	0 58 25.0
132 32 30	0 56 20.8	0 56 20.6	0 56 20.5	0 56 20.5	0 56 20.4
132 35 00	0 54 16.4	0 54 16.2	0 54 16.0	0 54 15.9	0 54 15.8
132 37 30	0 52 11.9	0 52 11.7	0 52 11.5	0 52 11.3	0 52 11.2
132 40 00	0 50 07.4	0 50 07.1	0 50 06.9	0 50 06.7	0 50 06.6
132 42 30	0 48 02.9	0 48 02.6	0 48 02.3	0 48 02.1	0 48 01.9
132 45 00	0 45 58.4	0 45 58.1	0 45 57.7	0 45 57.5	0 45 57.3
132 47 30	0 43 53.9	0 43 53.5	0 43 53.1	0 43 52.8	0 43 52.6
132 50 00	0 41 49.4	0 41 48.9	0 41 48.5	0 41 48.2	0 41 47.9
132 52 30	0 39 44.8	0 39 44.3	0 39 43.9	0 39 43.5	0 39 43.2
132 55 00	0 37 40.2	0 37 39.7	0 37 39.2	0 37 38.8	0 37 38.4
132 57 30	0 35 35.6	0 35 35.1	0 35 34.6	0 35 34.1	0 35 33.7
133 00 00	0 33 31.0	0 33 30.4	0 33 29.9	0 33 29.4	0 33 28.9
133 02 30	0 31 26.4	0 31 25.8	0 31 25.2	0 31 24.6	0 31 24.1
133 05 00	0 29 21.8	0 29 21.1	0 29 20.4	0 29 19.9	0 29 19.3
133 07 30	0 27 17.1	0 27 16.4	0 27 15.7	0 27 15.1	0 27 14.5
133 10 00	0 25 12.4	0 25 11.7	0 25 11.0	0 25 10.3	0 25 09.7
133 12 30	0 23 07.7	0 23 06.9	0 23 06.2	0 23 05.5	0 23 04.8
133 15 00	0 21 03.0	0 21 02.2	0 21 01.4	0 21 00.7	0 20 60.0
133 17 30	0 18 58.3	0 18 57.4	0 18 56.6	0 18 55.8	0 18 55.1
133 20 00	0 16 53.6	0 16 52.7	0 16 51.8	0 16 51.0	0 16 50.2
133 22 30	0 14 48.8	0 14 47.9	0 14 47.0	0 14 46.1	0 14 45.3
133 25 00	0 12 44.0	0 12 43.0	0 12 42.1	0 12 41.2	0 12 40.4
133 27 30	0 10 39.3	0 10 38.2	0 10 37.2	0 10 36.3	0 10 35.4
133 30 00	0 08 34.4	0 08 33.4	0 08 32.3	0 08 31.4	0 08 30.5
133 32 30	0 06 29.6	0 06 28.5	0 06 27.4	0 06 26.4	0 06 25.5
133 35 00	0 04 24.8	0 04 23.6	0 04 22.5	0 04 21.5	0 04 20.5
133 37 30	0 02 19.9	0 02 18.7	0 02 17.6	0 02 16.5	0 02 15.5
133 40 00	0 00 15.0	0 00 13.8	0 00 12.6	0 00 11.5	0 00 10.5
133 42 30	- 0 01 49.8	- 0 01 51.1	- 0 01 52.3	- 0 01 53.5	- 0 01 54.6
133 45 00	- 0 03 54.8	- 0 03 56.1	- 0 03 57.3	- 0 03 58.5	- 0 03 59.7
133 47 30	- 0 05 59.7	- 0 06 01.0	- 0 06 02.3	- 0 06 03.5	- 0 06 04.7
133 50 00	- 0 08 04.6	- 0 08 06.0	- 0 08 07.3	- 0 08 08.6	- 0 08 09.8
133 52 30	- 0 10 09.6	- 0 10 11.0	- 0 10 12.4	- 0 10 13.7	- 0 10 14.9
133 55 00	- 0 12 14.6	- 0 12 16.0	- 0 12 17.4	- 0 12 18.8	- 0 12 20.1
133 57 30	- 0 14 19.5	- 0 14 21.0	- 0 14 22.5	- 0 14 23.9	- 0 14 25.2
134 00 00	- 0 16 24.6	- 0 16 26.1	- 0 16 27.6	- 0 16 29.0	- 0 16 30.4
134 02 30	- 0 18 29.6	- 0 18 31.2	- 0 18 32.7	- 0 18 34.1	- 0 18 35.6
134 05 00	- 0 20 34.6	- 0 20 36.2	- 0 20 37.8	- 0 20 39.3	- 0 20 40.7
134 07 30	- 0 22 39.7	- 0 22 41.3	- 0 22 42.9	- 0 22 44.5	- 0 22 46.0
134 10 00	- 0 24 44.8	- 0 24 46.4	- 0 24 48.1	- 0 24 49.7	- 0 24 51.2
134 12 30	- 0 26 49.9	- 0 26 51.6	- 0 26 53.3	- 0 26 54.9	- 0 26 56.4
134 15 00	- 0 28 55.0	- 0 28 56.7	- 0 28 58.4	- 0 29 00.1	- 0 29 01.7
134 17 30	- 0 31 00.1	- 0 31 01.9	- 0 31 03.6	- 0 31 05.3	- 0 31 07.0
134 20 00	- 0 33 05.2	- 0 33 07.1	- 0 33 08.9	- 0 33 10.6	- 0 33 12.3
134 22 30	- 0 35 10.4	- 0 35 12.3	- 0 35 14.1	- 0 35 15.9	- 0 35 17.6
134 25 00	- 0 37 15.6	- 0 37 17.5	- 0 37 19.4	- 0 37 21.2	- 0 37 22.9
134 27 30	- 0 39 20.8	- 0 39 22.7	- 0 39 24.6	- 0 39 26.5	- 0 39 28.3
134 30 00	- 0 41 26.0	- 0 41 28.0	- 0 41 29.9	- 0 41 31.8	- 0 41 33.6

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	56 00 00	56 02 30	56 05 00	56 07 30	56 10 00
132 00 00	0.9999036	0.9999048	0.9999062	0.9999078	0.9999096
132 02 30	0.9999028	0.9999039	0.9999051	0.9999066	0.9999082
132 05 00	0.9999021	0.9999030	0.9999041	0.9999054	0.9999069
132 07 30	0.9999014	0.9999022	0.9999032	0.9999044	0.9999057
132 10 00	0.9999009	0.9999016	0.9999024	0.9999035	0.9999047
132 12 30	0.9999005	0.9999011	0.9999018	0.9999027	0.9999037
132 15 00	0.9999003	0.9999006	0.9999012	0.9999019	0.9999029
132 17 30	0.9999001	0.9999003	0.9999007	0.9999014	0.9999021
132 20 00	0.9999000	0.9999001	0.9999004	0.9999009	0.9999015
132 22 30	0.9999001	0.9999000	0.9999002	0.9999005	0.9999010
132 25 00	0.9999002	0.9999000	0.9999000	0.9999002	0.9999006
132 27 30	0.9999005	0.9999002	0.9999000	0.9999001	0.9999003
132 30 00	0.9999008	0.9999004	0.9999001	0.9999000	0.9999001
132 32 30	0.9999013	0.9999007	0.9999003	0.9999001	0.9999000
132 35 00	0.9999019	0.9999012	0.9999006	0.9999002	0.9999000
132 37 30	0.9999026	0.9999017	0.9999010	0.9999005	0.9999002
132 40 00	0.9999034	0.9999024	0.9999015	0.9999009	0.9999004
132 42 30	0.9999043	0.9999031	0.9999022	0.9999014	0.9999008
132 45 00	0.9999053	0.9999040	0.9999029	0.9999020	0.9999012
132 47 30	0.9999065	0.9999050	0.9999037	0.9999027	0.9999018
132 50 00	0.9999077	0.9999061	0.9999047	0.9999035	0.9999024
132 52 30	0.9999090	0.9999073	0.9999058	0.9999044	0.9999032
132 55 00	0.9999105	0.9999086	0.9999069	0.9999054	0.9999041
132 57 30	0.9999120	0.9999100	0.9999082	0.9999065	0.9999051
133 00 00	0.9999137	0.9999115	0.9999096	0.9999078	0.9999062
133 02 30	0.9999155	0.9999132	0.9999110	0.9999091	0.9999074
133 05 00	0.9999173	0.9999149	0.9999126	0.9999106	0.9999087
133 07 30	0.9999193	0.9999167	0.9999143	0.9999121	0.9999101
133 10 00	0.9999214	0.9999187	0.9999161	0.9999138	0.9999116
133 12 30	0.9999236	0.9999207	0.9999180	0.9999155	0.9999132
133 15 00	0.9999259	0.9999229	0.9999201	0.9999174	0.9999150
133 17 30	0.9999283	0.9999252	0.9999222	0.9999194	0.9999168
133 20 00	0.9999308	0.9999275	0.9999244	0.9999215	0.9999187
133 22 30	0.9999334	0.9999300	0.9999267	0.9999237	0.9999208
133 25 00	0.9999362	0.9999326	0.9999292	0.9999259	0.9999229
133 27 30	0.9999390	0.9999353	0.9999317	0.9999283	0.9999252
133 30 00	0.9999419	0.9999380	0.9999344	0.9999308	0.9999275
133 32 30	0.9999450	0.9999409	0.9999371	0.9999335	0.9999300
133 35 00	0.9999481	0.9999439	0.9999400	0.9999362	0.9999326
133 37 30	0.9999514	0.9999470	0.9999429	0.9999390	0.9999352
133 40 00	0.9999547	0.9999503	0.9999460	0.9999419	0.9999380
133 42 30	0.9999582	0.9999536	0.9999491	0.9999449	0.9999409
133 45 00	0.9999617	0.9999570	0.9999524	0.9999480	0.9999439
133 47 30	0.9999654	0.9999605	0.9999558	0.9999513	0.9999469
133 50 00	0.9999692	0.9999641	0.9999593	0.9999546	0.9999501
133 52 30	0.9999731	0.9999679	0.9999629	0.9999580	0.9999534
133 55 00	0.9999770	0.9999717	0.9999665	0.9999616	0.9999568
133 57 30	0.9999811	0.9999756	0.9999703	0.9999652	0.9999603
134 00 00	0.9999853	0.9999797	0.9999742	0.9999690	0.9999639
134 02 30	0.9999896	0.9999838	0.9999782	0.9999728	0.9999676
134 05 00	0.9999940	0.9999881	0.9999823	0.9999768	0.9999714
134 07 30	0.9999985	0.9999924	0.9999865	0.9999808	0.9999753
134 10 00	1.0000031	0.9999969	0.9999908	0.9999850	0.9999794
134 12 30	1.0000078	1.0000014	0.9999952	0.9999893	0.9999835
134 15 00	1.0000126	1.0000061	0.9999997	0.9999936	0.9999877
134 17 30	1.0000175	1.0000108	1.0000044	0.9999981	0.9999920
134 20 00	1.0000225	1.0000157	1.0000091	1.0000026	0.9999964
134 22 30	1.0000276	1.0000207	1.0000139	1.0000073	1.0000009
134 25 00	1.0000328	1.0000257	1.0000188	1.0000121	1.0000056
134 27 30	1.0000381	1.0000309	1.0000238	1.0000170	1.0000103
134 30 00	1.0000436	1.0000362	1.0000289	1.0000219	1.0000151

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	56 10 00	56 12 30	56 15 00	56 17 30	56 20 00
130 00 00	3 02 31.5	3 02 34.1	3 02 36.7	3 02 39.4	3 02 42.1
130 02 30	3 00 27.9	3 00 30.4	3 00 33.0	3 00 35.6	3 00 38.3
130 05 00	2 58 24.2	2 58 26.7	2 58 29.2	2 58 31.8	2 58 34.4
130 07 30	2 56 20.5	2 56 23.0	2 56 25.4	2 56 28.0	2 56 30.6
130 10 00	2 54 16.8	2 54 19.2	2 54 21.6	2 54 24.1	2 54 26.7
130 12 30	2 52 13.1	2 52 15.4	2 52 17.8	2 52 20.3	2 52 22.8
130 15 00	2 50 09.4	2 50 11.7	2 50 14.0	2 50 16.4	2 50 18.9
130 17 30	2 48 05.6	2 48 07.9	2 48 10.2	2 48 12.6	2 48 15.0
130 20 00	2 46 01.9	2 46 04.1	2 46 06.3	2 46 08.7	2 46 11.0
130 22 30	2 43 58.1	2 44 00.3	2 44 02.5	2 44 04.8	2 44 07.1
130 25 00	2 41 54.3	2 41 56.4	2 41 58.6	2 42 00.8	2 42 03.1
130 27 30	2 39 50.5	2 39 52.6	2 39 54.7	2 39 56.9	2 39 59.2
130 30 00	2 37 46.7	2 37 48.7	2 37 50.8	2 37 53.0	2 37 55.2
130 32 30	2 35 42.8	2 35 44.8	2 35 46.9	2 35 49.0	2 35 51.2
130 35 00	2 33 39.0	2 33 40.9	2 33 42.9	2 33 45.0	2 33 47.1
130 37 30	2 31 35.1	2 31 37.0	2 31 39.0	2 31 41.0	2 31 43.1
130 40 00	2 29 31.2	2 29 33.1	2 29 35.0	2 29 37.0	2 29 39.0
130 42 30	2 27 27.3	2 27 29.2	2 27 31.0	2 27 33.0	2 27 35.0
130 45 00	2 25 23.4	2 25 25.2	2 25 27.0	2 25 28.9	2 25 30.9
130 47 30	2 23 19.5	2 23 21.2	2 23 23.0	2 23 24.9	2 23 26.8
130 50 00	2 21 15.5	2 21 17.2	2 21 19.0	2 21 20.8	2 21 22.7
130 52 30	2 19 11.6	2 19 13.2	2 19 15.0	2 19 16.7	2 19 18.6
130 55 00	2 17 07.6	2 17 09.2	2 17 10.9	2 17 12.6	2 17 14.4
130 57 30	2 15 03.6	2 15 05.2	2 15 06.8	2 15 08.5	2 15 10.3
131 00 00	2 12 59.6	2 13 01.1	2 13 02.7	2 13 04.4	2 13 06.1
131 02 30	2 10 55.6	2 10 57.1	2 10 58.6	2 11 00.2	2 11 01.9
131 05 00	2 08 51.5	2 08 53.0	2 08 54.5	2 08 56.1	2 08 57.7
131 07 30	2 06 47.5	2 06 48.9	2 06 50.4	2 06 51.9	2 06 53.5
131 10 00	2 04 43.4	2 04 44.8	2 04 46.2	2 04 47.7	2 04 49.2
131 12 30	2 02 39.3	2 02 40.7	2 02 42.1	2 02 43.5	2 02 45.0
131 15 00	2 00 35.2	2 00 36.5	2 00 37.9	2 00 39.3	2 00 40.7
131 17 30	1 58 31.1	1 58 32.4	1 58 33.7	1 58 35.0	1 58 36.5
131 20 00	1 56 27.0	1 56 28.2	1 56 29.5	1 56 30.8	1 56 32.2
131 22 30	1 54 22.9	1 54 24.0	1 54 25.3	1 54 26.5	1 54 27.9
131 25 00	1 52 18.7	1 52 19.8	1 52 21.0	1 52 22.2	1 52 23.5
131 27 30	1 50 14.5	1 50 15.6	1 50 16.8	1 50 17.9	1 50 19.2
131 30 00	1 48 10.3	1 48 11.4	1 48 12.5	1 48 13.6	1 48 14.8
131 32 30	1 46 06.1	1 46 07.1	1 46 08.2	1 46 09.3	1 46 10.5
131 35 00	1 44 01.9	1 44 02.9	1 44 03.9	1 44 05.0	1 44 06.1
131 37 30	1 41 57.7	1 41 58.6	1 41 59.6	1 42 00.6	1 42 01.7
131 40 00	1 39 53.4	1 39 54.3	1 39 55.2	1 39 56.2	1 39 57.3
131 42 30	1 37 49.1	1 37 50.0	1 37 50.9	1 37 51.8	1 37 52.8
131 45 00	1 35 44.9	1 35 45.7	1 35 46.5	1 35 47.4	1 35 48.4
131 47 30	1 33 40.6	1 33 41.3	1 33 42.1	1 33 43.0	1 33 43.9
131 50 00	1 31 36.2	1 31 37.0	1 31 37.7	1 31 38.6	1 31 39.4
131 52 30	1 29 31.9	1 29 32.6	1 29 33.3	1 29 34.1	1 29 34.9
131 55 00	1 27 27.6	1 27 28.2	1 27 28.9	1 27 29.6	1 27 30.4
131 57 30	1 25 23.2	1 25 23.8	1 25 24.4	1 25 25.2	1 25 25.9
132 00 00	1 23 18.8	1 23 19.4	1 23 20.0	1 23 20.6	1 23 21.4
132 02 30	1 21 14.4	1 21 14.9	1 21 15.5	1 21 16.1	1 21 16.8
132 05 00	1 19 10.0	1 19 10.5	1 19 11.0	1 19 11.6	1 19 12.2
132 07 30	1 17 05.6	1 17 06.0	1 17 06.5	1 17 07.1	1 17 07.6
132 10 00	1 15 01.1	1 15 01.5	1 15 02.0	1 15 02.5	1 15 03.0
132 12 30	1 12 56.7	1 12 57.0	1 12 57.4	1 12 57.9	1 12 58.4
132 15 00	1 10 52.2	1 10 52.5	1 10 52.9	1 10 53.3	1 10 53.8
132 17 30	1 08 47.7	1 08 48.0	1 08 48.3	1 08 48.7	1 08 49.1
132 20 00	1 06 43.2	1 06 43.4	1 06 43.7	1 06 44.1	1 06 44.5
132 22 30	1 04 38.7	1 04 38.9	1 04 39.1	1 04 39.4	1 04 39.8
132 25 00	1 02 34.2	1 02 34.3	1 02 34.5	1 02 34.8	1 02 35.1
132 27 30	1 00 29.6	1 00 29.7	1 00 29.9	1 00 30.1	1 00 30.4
132 30 00	0 58 25.0	0 58 25.1	0 58 25.2	0 58 25.4	0 58 25.6

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	56 10 00	56 12 30	56 15 00	56 17 30	56 20 00
130 00 00	1.0001075	1.0001158	1.0001243	1.0001330	1.0001418
130 02 30	1.0001007	1.0001089	1.0001173	1.0001258	1.0001345
130 05 00	1.0000940	1.0001021	1.0001103	1.0001187	1.0001273
130 07 30	1.0000875	1.0000954	1.0001035	1.0001118	1.0001202
130 10 00	1.0000810	1.0000888	1.0000968	1.0001049	1.0001132
130 12 30	1.0000747	1.0000823	1.0000902	1.0000982	1.0001064
130 15 00	1.0000684	1.0000760	1.0000837	1.0000916	1.0000996
130 17 30	1.0000623	1.0000698	1.0000773	1.0000851	1.0000930
130 20 00	1.0000563	1.0000636	1.0000711	1.0000787	1.0000865
130 22 30	1.0000505	1.0000576	1.0000649	1.0000724	1.0000801
130 25 00	1.0000447	1.0000517	1.0000589	1.0000663	1.0000738
130 27 30	1.0000391	1.0000460	1.0000530	1.0000602	1.0000676
130 30 00	1.0000335	1.0000403	1.0000472	1.0000543	1.0000616
130 32 30	1.0000281	1.0000347	1.0000415	1.0000485	1.0000556
130 35 00	1.0000228	1.0000293	1.0000360	1.0000428	1.0000498
130 37 30	1.0000176	1.0000240	1.0000305	1.0000372	1.0000441
130 40 00	1.0000125	1.0000188	1.0000252	1.0000318	1.0000385
130 42 30	1.0000076	1.0000137	1.0000200	1.0000264	1.0000330
130 45 00	1.0000027	1.0000087	1.0000148	1.0000212	1.0000276
130 47 30	0.9999980	1.0000038	1.0000099	1.0000160	1.0000224
130 50 00	0.9999934	0.9999991	1.0000050	1.0000110	1.0000172
130 52 30	0.9999889	0.9999944	1.0000002	1.0000061	1.0000122
130 55 00	0.9999845	0.9999899	0.9999955	1.0000013	1.0000073
130 57 30	0.9999802	0.9999855	0.9999910	0.9999966	1.0000025
131 00 00	0.9999760	0.9999812	0.9999866	0.9999921	0.9999978
131 02 30	0.9999720	0.9999770	0.9999822	0.9999876	0.9999932
131 05 00	0.9999680	0.9999729	0.9999780	0.9999833	0.9999887
131 07 30	0.9999642	0.9999690	0.9999739	0.9999790	0.9999843
131 10 00	0.9999605	0.9999651	0.9999699	0.9999749	0.9999801
131 12 30	0.9999569	0.9999614	0.9999661	0.9999709	0.9999760
131 15 00	0.9999534	0.9999578	0.9999623	0.9999670	0.9999719
131 17 30	0.9999500	0.9999543	0.9999587	0.9999633	0.9999680
131 20 00	0.9999467	0.9999508	0.9999551	0.9999596	0.9999642
131 22 30	0.9999436	0.9999476	0.9999517	0.9999560	0.9999605
131 25 00	0.9999405	0.9999444	0.9999484	0.9999526	0.9999569
131 27 30	0.9999376	0.9999413	0.9999452	0.9999492	0.9999535
131 30 00	0.9999348	0.9999384	0.9999421	0.9999460	0.9999501
131 32 30	0.9999321	0.9999355	0.9999391	0.9999429	0.9999468
131 35 00	0.9999295	0.9999328	0.9999362	0.9999399	0.9999437
131 37 30	0.9999270	0.9999301	0.9999335	0.9999370	0.9999407
131 40 00	0.9999246	0.9999276	0.9999308	0.9999342	0.9999378
131 42 30	0.9999223	0.9999252	0.9999283	0.9999315	0.9999349
131 45 00	0.9999202	0.9999229	0.9999259	0.9999290	0.9999322
131 47 30	0.9999181	0.9999208	0.9999235	0.9999265	0.9999297
131 50 00	0.9999162	0.9999187	0.9999213	0.9999242	0.9999272
131 52 30	0.9999144	0.9999167	0.9999192	0.9999219	0.9999248
131 55 00	0.9999127	0.9999149	0.9999172	0.9999198	0.9999225
131 57 30	0.9999111	0.9999131	0.9999154	0.9999178	0.9999204
132 00 00	0.9999096	0.9999115	0.9999136	0.9999159	0.9999183
132 02 30	0.9999082	0.9999100	0.9999119	0.9999141	0.9999164
132 05 00	0.9999069	0.9999085	0.9999104	0.9999124	0.9999146
132 07 30	0.9999057	0.9999072	0.9999089	0.9999108	0.9999129
132 10 00	0.9999047	0.9999060	0.9999076	0.9999093	0.9999113
132 12 30	0.9999037	0.9999050	0.9999064	0.9999080	0.9999098
132 15 00	0.9999029	0.9999040	0.9999053	0.9999067	0.9999084
132 17 30	0.9999021	0.9999031	0.9999042	0.9999056	0.9999071
132 20 00	0.9999015	0.9999023	0.9999033	0.9999045	0.9999059
132 22 30	0.9999010	0.9999017	0.9999026	0.9999036	0.9999048
132 25 00	0.9999006	0.9999011	0.9999019	0.9999028	0.9999039
132 27 30	0.9999003	0.9999007	0.9999013	0.9999021	0.9999030
132 30 00	0.9999001	0.9999004	0.9999008	0.9999014	0.9999023

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	56 10 00	56 12 30	56 15 00	56 17 30	56 20 00
132 30 00	0 58 25.0	0 58 25.1	0 58 25.2	0 58 25.4	0 58 25.6
132 32 30	0 56 20.4	0 56 20.5	0 56 20.6	0 56 20.7	0 56 20.9
132 35 00	0 54 15.8	0 54 15.8	0 54 15.9	0 54 16.0	0 54 16.1
132 37 30	0 52 11.2	0 52 11.2	0 52 11.2	0 52 11.2	0 52 11.4
132 40 00	0 50 06.6	0 50 06.5	0 50 06.5	0 50 06.5	0 50 06.6
132 42 30	0 48 01.9	0 48 01.8	0 48 01.7	0 48 01.7	0 48 01.8
132 45 00	0 45 57.3	0 45 57.1	0 45 57.0	0 45 56.9	0 45 56.9
132 47 30	0 43 52.6	0 43 52.4	0 43 52.2	0 43 52.1	0 43 52.1
132 50 00	0 41 47.9	0 41 47.6	0 41 47.5	0 41 47.3	0 41 47.2
132 52 30	0 39 43.2	0 39 42.9	0 39 42.7	0 39 42.5	0 39 42.4
132 55 00	0 37 38.4	0 37 38.1	0 37 37.8	0 37 37.6	0 37 37.5
132 57 30	0 35 33.7	0 35 33.3	0 35 33.0	0 35 32.8	0 35 32.6
133 00 00	0 33 28.9	0 33 28.5	0 33 28.2	0 33 27.9	0 33 27.6
133 02 30	0 31 24.1	0 31 23.7	0 31 23.3	0 31 23.0	0 31 22.7
133 05 00	0 29 19.3	0 29 18.9	0 29 18.4	0 29 18.1	0 29 17.7
133 07 30	0 27 14.5	0 27 14.0	0 27 13.5	0 27 13.1	0 27 12.8
133 10 00	0 25 09.7	0 25 09.1	0 25 08.6	0 25 08.2	0 25 07.8
133 12 30	0 23 04.8	0 23 04.3	0 23 03.7	0 23 03.2	0 23 02.8
133 15 00	0 20 60.0	0 20 59.4	0 20 58.8	0 20 58.2	0 20 57.8
133 17 30	0 18 55.1	0 18 54.4	0 18 53.8	0 18 53.3	0 18 52.7
133 20 00	0 16 50.2	0 16 49.5	0 16 48.8	0 16 48.2	0 16 47.7
133 22 30	0 14 45.3	0 14 44.6	0 14 43.9	0 14 43.2	0 14 42.6
133 25 00	0 12 40.4	0 12 39.6	0 12 38.8	0 12 38.2	0 12 37.5
133 27 30	0 10 35.4	0 10 34.6	0 10 33.8	0 10 33.1	0 10 32.4
133 30 00	0 08 30.5	0 08 29.6	0 08 28.8	0 08 28.0	0 08 27.3
133 32 30	0 06 25.5	0 06 24.6	0 06 23.7	0 06 22.9	0 06 22.2
133 35 00	0 04 20.5	0 04 19.5	0 04 18.7	0 04 17.8	0 04 17.0
133 37 30	0 02 15.5	0 02 14.5	0 02 13.6	0 02 12.7	0 02 11.9
133 40 00	0 00 10.5	0 00 09.4	0 00 08.5	0 00 07.6	0 00 06.7
133 42 30	- 0 01 54.6	- 0 01 55.7	- 0 01 56.7	- 0 01 57.6	- 0 01 58.5
133 45 00	- 0 03 59.7	- 0 04 00.8	- 0 04 01.8	- 0 04 02.8	- 0 04 03.7
133 47 30	- 0 06 04.7	- 0 06 05.9	- 0 06 07.0	- 0 06 08.0	- 0 06 09.0
133 50 00	- 0 08 09.8	- 0 08 11.0	- 0 08 12.1	- 0 08 13.2	- 0 08 14.2
133 52 30	- 0 10 14.9	- 0 10 16.2	- 0 10 17.3	- 0 10 18.4	- 0 10 19.5
133 55 00	- 0 12 20.1	- 0 12 21.3	- 0 12 22.5	- 0 12 23.7	- 0 12 24.7
133 57 30	- 0 14 25.2	- 0 14 26.5	- 0 14 27.7	- 0 14 28.9	- 0 14 30.0
134 00 00	- 0 16 30.4	- 0 16 31.7	- 0 16 33.0	- 0 16 34.2	- 0 16 35.4
134 02 30	- 0 18 35.6	- 0 18 36.9	- 0 18 38.2	- 0 18 39.5	- 0 18 40.7
134 05 00	- 0 20 40.7	- 0 20 42.1	- 0 20 43.5	- 0 20 44.8	- 0 20 46.0
134 07 30	- 0 22 46.0	- 0 22 47.4	- 0 22 48.8	- 0 22 50.1	- 0 22 51.4
134 10 00	- 0 24 51.2	- 0 24 52.7	- 0 24 54.1	- 0 24 55.5	- 0 24 56.8
134 12 30	- 0 26 56.4	- 0 26 57.9	- 0 26 59.4	- 0 27 00.8	- 0 27 02.2
134 15 00	- 0 29 01.7	- 0 29 03.2	- 0 29 04.7	- 0 29 06.2	- 0 29 07.6
134 17 30	- 0 31 07.0	- 0 31 08.6	- 0 31 10.1	- 0 31 11.6	- 0 31 13.0
134 20 00	- 0 33 12.3	- 0 33 13.9	- 0 33 15.5	- 0 33 17.0	- 0 33 18.5
134 22 30	- 0 35 17.6	- 0 35 19.3	- 0 35 20.9	- 0 35 22.4	- 0 35 23.9
134 25 00	- 0 37 22.9	- 0 37 24.6	- 0 37 26.3	- 0 37 27.9	- 0 37 29.4
134 27 30	- 0 39 28.3	- 0 39 30.0	- 0 39 31.7	- 0 39 33.3	- 0 39 34.9
134 30 00	- 0 41 33.6	- 0 41 35.4	- 0 41 37.1	- 0 41 38.8	- 0 41 40.4
134 32 30	- 0 43 39.0	- 0 43 40.8	- 0 43 42.6	- 0 43 44.3	- 0 43 45.9
134 35 00	- 0 45 44.4	- 0 45 46.3	- 0 45 48.1	- 0 45 49.8	- 0 45 51.5
134 37 30	- 0 47 49.8	- 0 47 51.7	- 0 47 53.5	- 0 47 55.3	- 0 47 57.1
134 40 00	- 0 49 55.3	- 0 49 57.2	- 0 49 59.1	- 0 50 00.9	- 0 50 02.6
134 42 30	- 0 52 00.7	- 0 52 02.7	- 0 52 04.6	- 0 52 06.4	- 0 52 08.2
134 45 00	- 0 54 06.2	- 0 54 08.2	- 0 54 10.1	- 0 54 12.0	- 0 54 13.8
134 47 30	- 0 56 11.7	- 0 56 13.7	- 0 56 15.7	- 0 56 17.6	- 0 56 19.5
134 50 00	- 0 58 17.2	- 0 58 19.2	- 0 58 21.2	- 0 58 23.2	- 0 58 25.1
134 52 30	- 1 00 22.7	- 1 00 24.8	- 1 00 26.8	- 1 00 28.8	- 1 00 30.8
134 55 00	- 1 02 28.2	- 1 02 30.4	- 1 02 32.4	- 1 02 34.5	- 1 02 36.5
134 57 30	- 1 04 33.8	- 1 04 35.9	- 1 04 38.1	- 1 04 40.1	- 1 04 42.2
135 00 00	- 1 06 39.3	- 1 06 41.5	- 1 06 43.7	- 1 06 45.8	- 1 06 47.9

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	56 10 00	56 12 30	56 15 00	56 17 30	56 20 00
132 30 00	0.9999001	0.9999004	0.9999008	0.9999014	0.9999023
132 32 30	0.9999000	0.9999001	0.9999005	0.9999009	0.9999016
132 35 00	0.9999000	0.9999000	0.9999002	0.9999006	0.9999011
132 37 30	0.9999002	0.9999000	0.9999000	0.9999003	0.9999007
132 40 00	0.9999004	0.9999001	0.9999000	0.9999001	0.9999003
132 42 30	0.9999008	0.9999003	0.9999001	0.9999000	0.9999001
132 45 00	0.9999012	0.9999006	0.9999002	0.9999000	0.9999000
132 47 30	0.9999018	0.9999011	0.9999005	0.9999002	0.9999000
132 50 00	0.9999024	0.9999016	0.9999009	0.9999004	0.9999001
132 52 30	0.9999032	0.9999022	0.9999014	0.9999008	0.9999003
132 55 00	0.9999041	0.9999030	0.9999020	0.9999012	0.9999007
132 57 30	0.9999051	0.9999038	0.9999027	0.9999018	0.9999011
133 00 00	0.9999062	0.9999048	0.9999035	0.9999025	0.9999016
133 02 30	0.9999074	0.9999058	0.9999044	0.9999032	0.9999022
133 05 00	0.9999087	0.9999070	0.9999055	0.9999041	0.9999030
133 07 30	0.9999101	0.9999082	0.9999066	0.9999051	0.9999038
133 10 00	0.9999116	0.9999096	0.9999078	0.9999062	0.9999048
133 12 30	0.9999132	0.9999111	0.9999092	0.9999074	0.9999058
133 15 00	0.9999150	0.9999127	0.9999106	0.9999087	0.9999070
133 17 30	0.9999168	0.9999144	0.9999121	0.9999101	0.9999083
133 20 00	0.9999187	0.9999162	0.9999138	0.9999116	0.9999096
133 22 30	0.9999208	0.9999181	0.9999156	0.9999132	0.9999111
133 25 00	0.9999229	0.9999201	0.9999174	0.9999150	0.9999127
133 27 30	0.9999252	0.9999222	0.9999194	0.9999168	0.9999144
133 30 00	0.9999275	0.9999244	0.9999215	0.9999187	0.9999161
133 32 30	0.9999300	0.9999267	0.9999236	0.9999207	0.9999180
133 35 00	0.9999326	0.9999291	0.9999259	0.9999229	0.9999200
133 37 30	0.9999352	0.9999317	0.9999283	0.9999251	0.9999221
133 40 00	0.9999380	0.9999343	0.9999308	0.9999275	0.9999243
133 42 30	0.9999409	0.9999370	0.9999334	0.9999299	0.9999266
133 45 00	0.9999439	0.9999399	0.9999361	0.9999325	0.9999290
133 47 30	0.9999469	0.9999428	0.9999389	0.9999351	0.9999315
133 50 00	0.9999501	0.9999459	0.9999418	0.9999379	0.9999342
133 52 30	0.9999534	0.9999490	0.9999448	0.9999407	0.9999369
133 55 00	0.9999568	0.9999522	0.9999479	0.9999437	0.9999397
133 57 30	0.9999603	0.9999556	0.9999511	0.9999467	0.9999426
134 00 00	0.9999639	0.9999591	0.9999544	0.9999499	0.9999456
134 02 30	0.9999676	0.9999626	0.9999578	0.9999532	0.9999487
134 05 00	0.9999714	0.9999663	0.9999613	0.9999565	0.9999520
134 07 30	0.9999753	0.9999700	0.9999649	0.9999600	0.9999553
134 10 00	0.9999794	0.9999739	0.9999687	0.9999636	0.9999587
134 12 30	0.9999835	0.9999779	0.9999725	0.9999673	0.9999623
134 15 00	0.9999877	0.9999819	0.9999764	0.9999710	0.9999659
134 17 30	0.9999920	0.9999861	0.9999804	0.9999749	0.9999696
134 20 00	0.9999964	0.9999904	0.9999845	0.9999789	0.9999735
134 22 30	1.0000009	0.9999948	0.9999888	0.9999830	0.9999774
134 25 00	1.0000056	0.9999992	0.9999931	0.9999872	0.9999814
134 27 30	1.0000103	1.0000038	0.9999975	0.9999914	0.9999856
134 30 00	1.0000151	1.0000085	1.0000021	0.9999958	0.9999898
134 32 30	1.0000200	1.0000133	1.0000067	1.0000003	0.9999941
134 35 00	1.0000251	1.0000181	1.0000114	1.0000049	0.9999986
134 37 30	1.0000302	1.0000231	1.0000163	1.0000096	1.0000031
134 40 00	1.0000354	1.0000282	1.0000212	1.0000144	1.0000077
134 42 30	1.0000407	1.0000334	1.0000262	1.0000192	1.0000125
134 45 00	1.0000462	1.0000387	1.0000313	1.0000242	1.0000173
134 47 30	1.0000517	1.0000440	1.0000366	1.0000293	1.0000223
134 50 00	1.0000573	1.0000495	1.0000419	1.0000345	1.0000273
134 52 30	1.0000631	1.0000551	1.0000473	1.0000398	1.0000324
134 55 00	1.0000689	1.0000608	1.0000529	1.0000452	1.0000377
134 57 30	1.0000748	1.0000666	1.0000585	1.0000506	1.0000430
135 00 00	1.0000808	1.0000724	1.0000642	1.0000562	1.0000484

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	56 20 00	56 22 30	56 25 00	56 27 30	56 30 00
130 30 00	2 37 55.2	2 37 57.4	2 37 59.7	2 38 02.1	2 38 04.5
130 32 30	2 35 51.2	2 35 53.4	2 35 55.6	2 35 57.9	2 36 00.3
130 35 00	2 33 47.1	2 33 49.3	2 33 51.5	2 33 53.8	2 33 56.1
130 37 30	2 31 43.1	2 31 45.2	2 31 47.4	2 31 49.6	2 31 51.9
130 40 00	2 29 39.0	2 29 41.1	2 29 43.3	2 29 45.4	2 29 47.7
130 42 30	2 27 35.0	2 27 37.0	2 27 39.1	2 27 41.3	2 27 43.4
130 45 00	2 25 30.9	2 25 32.9	2 25 34.9	2 25 37.0	2 25 39.2
130 47 30	2 23 26.8	2 23 28.8	2 23 30.8	2 23 32.8	2 23 34.9
130 50 00	2 21 22.7	2 21 24.6	2 21 26.6	2 21 28.6	2 21 30.7
130 52 30	2 19 18.6	2 19 20.4	2 19 22.4	2 19 24.3	2 19 26.4
130 55 00	2 17 14.4	2 17 16.2	2 17 18.1	2 17 20.1	2 17 22.0
130 57 30	2 15 10.3	2 15 12.0	2 15 13.9	2 15 15.8	2 15 17.7
131 00 00	2 13 06.1	2 13 07.8	2 13 09.6	2 13 11.5	2 13 13.4
131 02 30	2 11 01.9	2 11 03.6	2 11 05.4	2 11 07.2	2 11 09.0
131 05 00	2 08 57.7	2 08 59.4	2 09 01.1	2 09 02.8	2 09 04.7
131 07 30	2 06 53.5	2 06 55.1	2 06 56.8	2 06 58.5	2 07 00.3
131 10 00	2 04 49.2	2 04 50.8	2 04 52.5	2 04 54.1	2 04 55.9
131 12 30	2 02 45.0	2 02 46.5	2 02 48.1	2 02 49.8	2 02 51.5
131 15 00	2 00 40.7	2 00 42.2	2 00 43.8	2 00 45.4	2 00 47.0
131 17 30	1 58 36.5	1 58 37.9	1 58 39.4	1 58 41.0	1 58 42.6
131 20 00	1 56 32.2	1 56 33.6	1 56 35.0	1 56 36.6	1 56 38.1
131 22 30	1 54 27.9	1 54 29.2	1 54 30.7	1 54 32.1	1 54 33.7
131 25 00	1 52 23.5	1 52 24.9	1 52 26.2	1 52 27.7	1 52 29.2
131 27 30	1 50 19.2	1 50 20.5	1 50 21.8	1 50 23.2	1 50 24.7
131 30 00	1 48 14.8	1 48 16.1	1 48 17.4	1 48 18.7	1 48 20.2
131 32 30	1 46 10.5	1 46 11.7	1 46 12.9	1 46 14.3	1 46 15.6
131 35 00	1 44 06.1	1 44 07.2	1 44 08.5	1 44 09.7	1 44 11.1
131 37 30	1 42 01.7	1 42 02.8	1 42 04.0	1 42 05.2	1 42 06.5
131 40 00	1 39 57.3	1 39 58.3	1 39 59.5	1 40 00.7	1 40 01.9
131 42 30	1 37 52.8	1 37 53.9	1 37 55.0	1 37 56.1	1 37 57.3
131 45 00	1 35 48.4	1 35 49.4	1 35 50.4	1 35 51.6	1 35 52.7
131 47 30	1 33 43.9	1 33 44.9	1 33 45.9	1 33 47.0	1 33 48.1
131 50 00	1 31 39.4	1 31 40.4	1 31 41.3	1 31 42.4	1 31 43.4
131 52 30	1 29 34.9	1 29 35.8	1 29 36.8	1 29 37.8	1 29 38.8
131 55 00	1 27 30.4	1 27 31.3	1 27 32.2	1 27 33.1	1 27 34.1
131 57 30	1 25 25.9	1 25 26.7	1 25 27.6	1 25 28.5	1 25 29.4
132 00 00	1 23 21.4	1 23 22.1	1 23 22.9	1 23 23.8	1 23 24.7
132 02 30	1 21 16.8	1 21 17.5	1 21 18.3	1 21 19.1	1 21 20.0
132 05 00	1 19 12.2	1 19 12.9	1 19 13.7	1 19 14.4	1 19 15.3
132 07 30	1 17 07.6	1 17 08.3	1 17 09.0	1 17 09.7	1 17 10.5
132 10 00	1 15 03.0	1 15 03.6	1 15 04.3	1 15 05.0	1 15 05.8
132 12 30	1 12 58.4	1 12 59.0	1 12 59.6	1 13 00.3	1 13 01.0
132 15 00	1 10 53.8	1 10 54.3	1 10 54.9	1 10 55.5	1 10 56.2
132 17 30	1 08 49.1	1 08 49.6	1 08 50.2	1 08 50.7	1 08 51.4
132 20 00	1 06 44.5	1 06 44.9	1 06 45.4	1 06 46.0	1 06 46.6
132 22 30	1 04 39.8	1 04 40.2	1 04 40.6	1 04 41.1	1 04 41.7
132 25 00	1 02 35.1	1 02 35.5	1 02 35.9	1 02 36.3	1 02 36.9
132 27 30	1 00 30.4	1 00 30.7	1 00 31.1	1 00 31.5	1 00 32.0
132 30 00	0 58 25.6	0 58 25.9	0 58 26.3	0 58 26.6	0 58 27.1
132 32 30	0 56 20.9	0 56 21.1	0 56 21.4	0 56 21.8	0 56 22.2
132 35 00	0 54 16.1	0 54 16.3	0 54 16.6	0 54 16.9	0 54 17.3
132 37 30	0 52 11.4	0 52 11.5	0 52 11.7	0 52 12.0	0 52 12.3
132 40 00	0 50 06.6	0 50 06.7	0 50 06.9	0 50 07.1	0 50 07.4
132 42 30	0 48 01.8	0 48 01.8	0 48 02.0	0 48 02.2	0 48 02.4
132 45 00	0 45 56.9	0 45 57.0	0 45 57.1	0 45 57.2	0 45 57.4
132 47 30	0 43 52.1	0 43 52.1	0 43 52.2	0 43 52.3	0 43 52.4
132 50 00	0 41 47.2	0 41 47.2	0 41 47.2	0 41 47.3	0 41 47.4
132 52 30	0 39 42.4	0 39 42.3	0 39 42.3	0 39 42.3	0 39 42.4
132 55 00	0 37 37.5	0 37 37.4	0 37 37.3	0 37 37.3	0 37 37.3
132 57 30	0 35 32.6	0 35 32.4	0 35 32.3	0 35 32.3	0 35 32.3
133 00 00	0 33 27.6	0 33 27.4	0 33 27.3	0 33 27.2	0 33 27.2

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277\times10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	56 20 00	56 22 30	56 25 00	56 27 30	56 30 00
130 30 00	1.0000616	1.0000690	1.0000766	1.0000844	1.0000923
130 32 30	1.0000556	1.0000629	1.0000704	1.0000780	1.0000858
130 35 00	1.0000498	1.0000570	1.0000643	1.0000718	1.0000795
130 37 30	1.0000441	1.0000511	1.0000583	1.0000657	1.0000733
130 40 00	1.0000385	1.0000454	1.0000525	1.0000597	1.0000672
130 42 30	1.0000330	1.0000398	1.0000467	1.0000539	1.0000611
130 45 00	1.0000276	1.0000343	1.0000411	1.0000481	1.0000552
130 47 30	1.0000224	1.0000289	1.0000356	1.0000424	1.0000495
130 50 00	1.0000172	1.0000236	1.0000302	1.0000369	1.0000438
130 52 30	1.0000122	1.0000184	1.0000249	1.0000315	1.0000382
130 55 00	1.0000073	1.0000134	1.0000197	1.0000262	1.0000328
130 57 30	1.0000025	1.0000085	1.0000146	1.0000209	1.0000275
131 00 00	0.9999978	1.0000036	1.0000097	1.0000159	1.0000222
131 02 30	0.9999932	0.9999989	1.0000048	1.0000109	1.0000171
131 05 00	0.9999887	0.9999943	1.0000001	1.0000060	1.0000121
131 07 30	0.9999843	0.9999898	0.9999954	1.0000012	1.0000072
131 10 00	0.9999801	0.9999854	0.9999909	0.9999966	1.0000024
131 12 30	0.9999760	0.9999811	0.9999865	0.9999921	0.9999978
131 15 00	0.9999719	0.9999770	0.9999822	0.9999876	0.9999932
131 17 30	0.9999680	0.9999729	0.9999780	0.9999833	0.9999888
131 20 00	0.9999642	0.9999690	0.9999740	0.9999791	0.9999844
131 22 30	0.9999605	0.9999652	0.9999700	0.9999750	0.9999803
131 25 00	0.9999569	0.9999615	0.9999662	0.9999710	0.9999761
131 27 30	0.9999535	0.9999579	0.9999624	0.9999672	0.9999721
131 30 00	0.9999501	0.9999544	0.9999588	0.9999634	0.9999682
131 32 30	0.9999468	0.9999510	0.9999553	0.9999598	0.9999644
131 35 00	0.9999437	0.9999477	0.9999519	0.9999562	0.9999607
131 37 30	0.9999407	0.9999445	0.9999486	0.9999528	0.9999572
131 40 00	0.9999378	0.9999415	0.9999454	0.9999495	0.9999537
131 42 30	0.9999349	0.9999385	0.9999423	0.9999462	0.9999504
131 45 00	0.9999322	0.9999357	0.9999393	0.9999431	0.9999471
131 47 30	0.9999297	0.9999330	0.9999365	0.9999401	0.9999440
131 50 00	0.9999272	0.9999304	0.9999337	0.9999373	0.9999410
131 52 30	0.9999248	0.9999279	0.9999311	0.9999345	0.9999381
131 55 00	0.9999225	0.9999255	0.9999285	0.9999318	0.9999353
131 57 30	0.9999204	0.9999232	0.9999261	0.9999293	0.9999326
132 00 00	0.9999183	0.9999210	0.9999238	0.9999268	0.9999300
132 02 30	0.9999164	0.9999189	0.9999216	0.9999245	0.9999275
132 05 00	0.9999146	0.9999169	0.9999195	0.9999222	0.9999251
132 07 30	0.9999129	0.9999151	0.9999175	0.9999201	0.9999229
132 10 00	0.9999113	0.9999133	0.9999156	0.9999181	0.9999207
132 12 30	0.9999098	0.9999117	0.9999138	0.9999162	0.9999187
132 15 00	0.9999084	0.9999102	0.9999122	0.9999144	0.9999167
132 17 30	0.9999071	0.9999088	0.9999106	0.9999127	0.9999149
132 20 00	0.9999059	0.9999074	0.9999092	0.9999111	0.9999132
132 22 30	0.9999048	0.9999062	0.9999078	0.9999096	0.9999115
132 25 00	0.9999039	0.9999051	0.9999066	0.9999082	0.9999100
132 27 30	0.9999030	0.9999041	0.9999055	0.9999069	0.9999086
132 30 00	0.9999023	0.9999033	0.9999044	0.9999058	0.9999073
132 32 30	0.9999016	0.9999025	0.9999035	0.9999047	0.9999061
132 35 00	0.9999011	0.9999018	0.9999027	0.9999038	0.9999050
132 37 30	0.9999007	0.9999012	0.9999020	0.9999029	0.9999041
132 40 00	0.9999003	0.9999008	0.9999014	0.9999022	0.9999032
132 42 30	0.9999001	0.9999004	0.9999009	0.9999016	0.9999024
132 45 00	0.9999000	0.9999002	0.9999005	0.9999011	0.9999018
132 47 30	0.9999000	0.9999000	0.9999002	0.9999006	0.9999012
132 50 00	0.9999001	0.9999000	0.9999001	0.9999003	0.9999008
132 52 30	0.9999003	0.9999001	0.9999000	0.9999001	0.9999004
132 55 00	0.9999007	0.9999003	0.9999000	0.9999000	0.9999002
132 57 30	0.9999011	0.9999005	0.9999002	0.9999000	0.9999000
133 00 00	0.9999016	0.9999009	0.9999004	0.9999001	0.9999000

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	56 20 00	56 22 30	56 25 00	56 27 30	56 30 00
133 00 00	0 33 27.6	0 33 27.4	0 33 27.3	0 33 27.2	0 33 27.2
133 02 30	0 31 22.7	0 31 22.5	0 31 22.3	0 31 22.2	0 31 22.1
133 05 00	0 29 17.7	0 29 17.5	0 29 17.3	0 29 17.1	0 29 17.0
133 07 30	0 27 12.8	0 27 12.5	0 27 12.2	0 27 12.0	0 27 11.9
133 10 00	0 25 07.8	0 25 07.4	0 25 07.2	0 25 06.9	0 25 06.7
133 12 30	0 23 02.8	0 23 02.4	0 23 02.1	0 23 01.8	0 23 01.6
133 15 00	0 20 57.8	0 20 57.3	0 20 57.0	0 20 56.7	0 20 56.4
133 17 30	0 18 52.7	0 18 52.3	0 18 51.9	0 18 51.5	0 18 51.2
133 20 00	0 16 47.7	0 16 47.2	0 16 46.7	0 16 46.3	0 16 46.0
133 22 30	0 14 42.6	0 14 42.1	0 14 41.6	0 14 41.2	0 14 40.8
133 25 00	0 12 37.5	0 12 37.0	0 12 36.4	0 12 36.0	0 12 35.5
133 27 30	0 10 32.4	0 10 31.8	0 10 31.3	0 10 30.7	0 10 30.3
133 30 00	0 08 27.3	0 08 26.7	0 08 26.1	0 08 25.5	0 08 25.0
133 32 30	0 06 22.2	0 06 21.5	0 06 20.8	0 06 20.3	0 06 19.7
133 35 00	0 04 17.0	0 04 16.3	0 04 15.6	0 04 15.0	0 04 14.4
133 37 30	0 02 11.9	0 02 11.1	0 02 10.4	0 02 09.7	0 02 09.1
133 40 00	0 00 06.7	0 00 05.9	0 00 05.1	0 00 04.4	0 00 03.8
133 42 30	- 0 01 58.5	- 0 01 59.4	- 0 02 00.2	- 0 02 00.9	- 0 02 01.6
133 45 00	- 0 04 03.7	- 0 04 04.6	- 0 04 05.4	- 0 04 06.2	- 0 04 07.0
133 47 30	- 0 06 09.0	- 0 06 09.9	- 0 06 10.8	- 0 06 11.6	- 0 06 12.3
133 50 00	- 0 08 14.2	- 0 08 15.2	- 0 08 16.1	- 0 08 16.9	- 0 08 17.7
133 52 30	- 0 10 19.5	- 0 10 20.5	- 0 10 21.4	- 0 10 22.3	- 0 10 23.2
133 55 00	- 0 12 24.7	- 0 12 25.8	- 0 12 26.8	- 0 12 27.7	- 0 12 28.6
133 57 30	- 0 14 30.0	- 0 14 31.1	- 0 14 32.1	- 0 14 33.1	- 0 14 34.0
134 00 00	- 0 16 35.4	- 0 16 36.5	- 0 16 37.5	- 0 16 38.5	- 0 16 39.5
134 02 30	- 0 18 40.7	- 0 18 41.8	- 0 18 42.9	- 0 18 44.0	- 0 18 45.0
134 05 00	- 0 20 46.0	- 0 20 47.2	- 0 20 48.4	- 0 20 49.4	- 0 20 50.5
134 07 30	- 0 22 51.4	- 0 22 52.6	- 0 22 53.8	- 0 22 54.9	- 0 22 56.0
134 10 00	- 0 24 56.8	- 0 24 58.0	- 0 24 59.3	- 0 25 00.4	- 0 25 01.5
134 12 30	- 0 27 02.2	- 0 27 03.5	- 0 27 04.7	- 0 27 05.9	- 0 27 07.1
134 15 00	- 0 29 07.6	- 0 29 08.9	- 0 29 10.2	- 0 29 11.5	- 0 29 12.6
134 17 30	- 0 31 13.0	- 0 31 14.4	- 0 31 15.7	- 0 31 17.0	- 0 31 18.2
134 20 00	- 0 33 18.5	- 0 33 19.9	- 0 33 21.2	- 0 33 22.6	- 0 33 23.8
134 22 30	- 0 35 23.9	- 0 35 25.4	- 0 35 26.8	- 0 35 28.1	- 0 35 29.4
134 25 00	- 0 37 29.4	- 0 37 30.9	- 0 37 32.3	- 0 37 33.7	- 0 37 35.1
134 27 30	- 0 39 34.9	- 0 39 36.4	- 0 39 37.9	- 0 39 39.3	- 0 39 40.7
134 30 00	- 0 41 40.4	- 0 41 42.0	- 0 41 43.5	- 0 41 45.0	- 0 41 46.4
134 32 30	- 0 43 45.9	- 0 43 47.5	- 0 43 49.1	- 0 43 50.6	- 0 43 52.0
134 35 00	- 0 45 51.5	- 0 45 53.1	- 0 45 54.7	- 0 45 56.3	- 0 45 57.7
134 37 30	- 0 47 57.1	- 0 47 58.7	- 0 48 00.4	- 0 48 01.9	- 0 48 03.4
134 40 00	- 0 50 02.6	- 0 50 04.4	- 0 50 06.0	- 0 50 07.6	- 0 50 09.2
134 42 30	- 0 52 08.2	- 0 52 10.0	- 0 52 11.7	- 0 52 13.3	- 0 52 14.9
134 45 00	- 0 54 13.8	- 0 54 15.6	- 0 54 17.4	- 0 54 19.1	- 0 54 20.7
134 47 30	- 0 56 19.5	- 0 56 21.3	- 0 56 23.1	- 0 56 24.8	- 0 56 26.5
134 50 00	- 0 58 25.1	- 0 58 27.0	- 0 58 28.8	- 0 58 30.6	- 0 58 32.3
134 52 30	- 1 00 30.8	- 1 00 32.7	- 1 00 34.5	- 1 00 36.3	- 1 00 38.1
134 55 00	- 1 02 36.5	- 1 02 38.4	- 1 02 40.3	- 1 02 42.1	- 1 02 43.9
134 57 30	- 1 04 42.2	- 1 04 44.1	- 1 04 46.1	- 1 04 47.9	- 1 04 49.7
135 00 00	- 1 06 47.9	- 1 06 49.9	- 1 06 51.9	- 1 06 53.8	- 1 06 55.6
135 02 30	- 1 08 53.6	- 1 08 55.7	- 1 08 57.7	- 1 08 59.6	- 1 09 01.5
135 05 00	- 1 10 59.4	- 1 11 01.5	- 1 11 03.5	- 1 11 05.5	- 1 11 07.4
135 07 30	- 1 13 05.1	- 1 13 07.3	- 1 13 09.3	- 1 13 11.3	- 1 13 13.3
135 10 00	- 1 15 10.9	- 1 15 13.1	- 1 15 15.2	- 1 15 17.2	- 1 15 19.2
135 12 30	- 1 17 16.7	- 1 17 18.9	- 1 17 21.1	- 1 17 23.1	- 1 17 25.2
135 15 00	- 1 19 22.5	- 1 19 24.8	- 1 19 26.9	- 1 19 29.1	- 1 19 31.1
135 17 30	- 1 21 28.4	- 1 21 30.6	- 1 21 32.8	- 1 21 35.0	- 1 21 37.1
135 20 00	- 1 23 34.2	- 1 23 36.5	- 1 23 38.8	- 1 23 41.0	- 1 23 43.1
135 22 30	- 1 25 40.1	- 1 25 42.4	- 1 25 44.7	- 1 25 46.9	- 1 25 49.1
135 25 00	- 1 27 46.0	- 1 27 48.4	- 1 27 50.7	- 1 27 52.9	- 1 27 55.2
135 27 30	- 1 29 51.9	- 1 29 54.3	- 1 29 56.6	- 1 29 59.0	- 1 30 01.2
135 30 00	- 1 31 57.8	- 1 32 00.3	- 1 32 02.6	- 1 32 05.0	- 1 32 07.3

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	56 20 00	56 22 30	56 25 00	56 27 30	56 30 00
133 00 00	0.9999016	0.9999009	0.9999004	0.9999001	0.9999000
133 02 30	0.9999022	0.9999014	0.9999008	0.9999003	0.9999001
133 05 00	0.9999030	0.9999020	0.9999013	0.9999007	0.9999003
133 07 30	0.9999038	0.9999027	0.9999018	0.9999011	0.9999005
133 10 00	0.9999048	0.9999035	0.9999025	0.9999016	0.9999009
133 12 30	0.9999058	0.9999045	0.9999033	0.9999022	0.9999014
133 15 00	0.9999070	0.9999055	0.9999041	0.9999030	0.9999020
133 17 30	0.9999083	0.9999066	0.9999051	0.9999038	0.9999027
133 20 00	0.9999096	0.9999078	0.9999062	0.9999048	0.9999035
133 22 30	0.9999111	0.9999092	0.9999074	0.9999058	0.9999044
133 25 00	0.9999127	0.9999106	0.9999087	0.9999070	0.9999054
133 27 30	0.9999144	0.9999121	0.9999101	0.9999082	0.9999066
133 30 00	0.9999161	0.9999138	0.9999116	0.9999096	0.9999078
133 32 30	0.9999180	0.9999155	0.9999132	0.9999111	0.9999091
133 35 00	0.9999200	0.9999174	0.9999149	0.9999126	0.9999105
133 37 30	0.9999221	0.9999193	0.9999167	0.9999143	0.9999121
133 40 00	0.9999243	0.9999214	0.9999186	0.9999161	0.9999137
133 42 30	0.9999266	0.9999235	0.9999206	0.9999179	0.9999154
133 45 00	0.9999290	0.9999258	0.9999228	0.9999199	0.9999173
133 47 30	0.9999315	0.9999282	0.9999250	0.9999220	0.9999192
133 50 00	0.9999342	0.9999306	0.9999273	0.9999242	0.9999212
133 52 30	0.9999369	0.9999332	0.9999297	0.9999265	0.9999234
133 55 00	0.9999397	0.9999359	0.9999323	0.9999288	0.9999256
133 57 30	0.9999426	0.9999387	0.9999349	0.9999313	0.9999280
134 00 00	0.9999456	0.9999415	0.9999376	0.9999339	0.9999304
134 02 30	0.9999487	0.9999445	0.9999405	0.9999366	0.9999330
134 05 00	0.9999520	0.9999476	0.9999434	0.9999394	0.9999356
134 07 30	0.9999553	0.9999508	0.9999464	0.9999423	0.9999383
134 10 00	0.9999587	0.9999541	0.9999496	0.9999453	0.9999412
134 12 30	0.9999623	0.9999574	0.9999528	0.9999484	0.9999442
134 15 00	0.9999659	0.9999609	0.9999562	0.9999516	0.9999472
134 17 30	0.9999696	0.9999645	0.9999596	0.9999549	0.9999504
134 20 00	0.9999735	0.9999682	0.9999631	0.9999583	0.9999536
134 22 30	0.9999774	0.9999720	0.9999668	0.9999618	0.9999570
134 25 00	0.9999814	0.9999759	0.9999705	0.9999654	0.9999604
134 27 30	0.9999856	0.9999799	0.9999744	0.9999691	0.9999640
134 30 00	0.9999898	0.9999840	0.9999783	0.9999729	0.9999676
134 32 30	0.9999941	0.9999882	0.9999824	0.9999768	0.9999714
134 35 00	0.9999986	0.9999924	0.9999865	0.9999808	0.9999752
134 37 30	1.0000031	0.9999968	0.9999908	0.9999849	0.9999792
134 40 00	1.0000077	1.0000013	0.9999951	0.9999891	0.9999832
134 42 30	1.0000125	1.0000059	0.9999995	0.9999934	0.9999874
134 45 00	1.0000173	1.0000106	1.0000041	0.9999978	0.9999916
134 47 30	1.0000223	1.0000154	1.0000087	1.0000023	0.9999960
134 50 00	1.0000273	1.0000203	1.0000135	1.0000068	1.0000004
134 52 30	1.0000324	1.0000253	1.0000183	1.0000115	1.0000050
134 55 00	1.0000377	1.0000303	1.0000232	1.0000163	1.0000096
134 57 30	1.0000430	1.0000355	1.0000283	1.0000212	1.0000144
135 00 00	1.0000484	1.0000408	1.0000334	1.0000262	1.0000192
135 02 30	1.0000540	1.0000462	1.0000386	1.0000313	1.0000241
135 05 00	1.0000596	1.0000517	1.0000440	1.0000365	1.0000292
135 07 30	1.0000653	1.0000573	1.0000494	1.0000418	1.0000343
135 10 00	1.0000711	1.0000629	1.0000549	1.0000471	1.0000395
135 12 30	1.0000771	1.0000687	1.0000606	1.0000526	1.0000449
135 15 00	1.0000831	1.0000746	1.0000663	1.0000582	1.0000503
135 17 30	1.0000892	1.0000805	1.0000721	1.0000639	1.0000558
135 20 00	1.0000954	1.0000866	1.0000780	1.0000696	1.0000614
135 22 30	1.0001017	1.0000928	1.0000840	1.0000755	1.0000672
135 25 00	1.0001081	1.0000990	1.0000902	1.0000815	1.0000730
135 27 30	1.0001146	1.0001054	1.0000964	1.0000875	1.0000789
135 30 00	1.0001212	1.0001119	1.0001027	1.0000937	1.0000849

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	56 30 00	56 32 30	56 35 00	56 37 30	56 40 00
131 00 00	2 13 13.4	2 13 15.3	2 13 17.3	2 13 19.4	2 13 21.5
131 02 30	2 11 09.0	2 11 10.9	2 11 12.9	2 11 14.9	2 11 17.0
131 05 00	2 09 04.7	2 09 06.5	2 09 08.5	2 09 10.4	2 09 12.4
131 07 30	2 07 00.3	2 07 02.1	2 07 04.0	2 07 05.9	2 07 07.9
131 10 00	2 04 55.9	2 04 57.7	2 04 59.5	2 05 01.4	2 05 03.3
131 12 30	2 02 51.5	2 02 53.2	2 02 55.0	2 02 56.9	2 02 58.8
131 15 00	2 00 47.0	2 00 48.7	2 00 50.5	2 00 52.3	2 00 54.2
131 17 30	1 58 42.6	1 58 44.3	1 58 46.0	1 58 47.7	1 58 49.6
131 20 00	1 56 38.1	1 56 39.8	1 56 41.4	1 56 43.2	1 56 44.9
131 22 30	1 54 33.7	1 54 35.2	1 54 36.9	1 54 38.6	1 54 40.3
131 25 00	1 52 29.2	1 52 30.7	1 52 32.3	1 52 33.9	1 52 35.6
131 27 30	1 50 24.7	1 50 26.2	1 50 27.7	1 50 29.3	1 50 31.0
131 30 00	1 48 20.2	1 48 21.6	1 48 23.1	1 48 24.7	1 48 26.3
131 32 30	1 46 15.6	1 46 17.0	1 46 18.5	1 46 20.0	1 46 21.6
131 35 00	1 44 11.1	1 44 12.4	1 44 13.9	1 44 15.3	1 44 16.9
131 37 30	1 42 06.5	1 42 07.8	1 42 09.2	1 42 10.7	1 42 12.2
131 40 00	1 40 01.9	1 40 03.2	1 40 04.6	1 40 06.0	1 40 07.4
131 42 30	1 37 57.3	1 37 58.6	1 37 59.9	1 38 01.2	1 38 02.6
131 45 00	1 35 52.7	1 35 53.9	1 35 55.2	1 35 56.5	1 35 57.9
131 47 30	1 33 48.1	1 33 49.3	1 33 50.5	1 33 51.8	1 33 53.1
131 50 00	1 31 43.4	1 31 44.6	1 31 45.8	1 31 47.0	1 31 48.3
131 52 30	1 29 38.8	1 29 39.9	1 29 41.0	1 29 42.2	1 29 43.5
131 55 00	1 27 34.1	1 27 35.2	1 27 36.3	1 27 37.4	1 27 38.6
131 57 30	1 25 29.4	1 25 30.4	1 25 31.5	1 25 32.6	1 25 33.8
132 00 00	1 23 24.7	1 23 25.7	1 23 26.7	1 23 27.8	1 23 28.9
132 02 30	1 21 20.0	1 21 20.9	1 21 21.9	1 21 23.0	1 21 24.0
132 05 00	1 19 15.3	1 19 16.2	1 19 17.1	1 19 18.1	1 19 19.1
132 07 30	1 17 10.5	1 17 11.4	1 17 12.3	1 17 13.2	1 17 14.2
132 10 00	1 15 05.8	1 15 06.6	1 15 07.4	1 15 08.3	1 15 09.3
132 12 30	1 13 01.0	1 13 01.8	1 13 02.6	1 13 03.4	1 13 04.4
132 15 00	1 10 56.2	1 10 56.9	1 10 57.7	1 10 58.5	1 10 59.4
132 17 30	1 08 51.4	1 08 52.1	1 08 52.8	1 08 53.6	1 08 54.4
132 20 00	1 06 46.6	1 06 47.2	1 06 47.9	1 06 48.7	1 06 49.5
132 22 30	1 04 41.7	1 04 42.3	1 04 43.0	1 04 43.7	1 04 44.5
132 25 00	1 02 36.9	1 02 37.4	1 02 38.0	1 02 38.7	1 02 39.4
132 27 30	1 00 32.0	1 00 32.5	1 00 33.1	1 00 33.7	1 00 34.4
132 30 00	0 58 27.1	0 58 27.6	0 58 28.1	0 58 28.7	0 58 29.4
132 32 30	0 56 22.2	0 56 22.6	0 56 23.1	0 56 23.7	0 56 24.3
132 35 00	0 54 17.3	0 54 17.7	0 54 18.1	0 54 18.7	0 54 19.2
132 37 30	0 52 12.3	0 52 12.7	0 52 13.1	0 52 13.6	0 52 14.1
132 40 00	0 50 07.4	0 50 07.7	0 50 08.1	0 50 08.5	0 50 09.0
132 42 30	0 48 02.4	0 48 02.7	0 48 03.0	0 48 03.4	0 48 03.9
132 45 00	0 45 57.4	0 45 57.7	0 45 58.0	0 45 58.3	0 45 58.7
132 47 30	0 43 52.4	0 43 52.6	0 43 52.9	0 43 53.2	0 43 53.6
132 50 00	0 41 47.4	0 41 47.6	0 41 47.8	0 41 48.1	0 41 48.4
132 52 30	0 39 42.4	0 39 42.5	0 39 42.7	0 39 42.9	0 39 43.2
132 55 00	0 37 37.3	0 37 37.4	0 37 37.6	0 37 37.8	0 37 38.0
132 57 30	0 35 32.3	0 35 32.3	0 35 32.4	0 35 32.6	0 35 32.8
133 00 00	0 33 27.2	0 33 27.2	0 33 27.3	0 33 27.4	0 33 27.6
133 02 30	0 31 22.1	0 31 22.1	0 31 22.1	0 31 22.2	0 31 22.3
133 05 00	0 29 17.0	0 29 16.9	0 29 16.9	0 29 17.0	0 29 17.1
133 07 30	0 27 11.9	0 27 11.8	0 27 11.7	0 27 11.7	0 27 11.8
133 10 00	0 25 06.7	0 25 06.6	0 25 06.5	0 25 06.5	0 25 06.5
133 12 30	0 23 01.6	0 23 01.4	0 23 01.3	0 23 01.2	0 23 01.2
133 15 00	0 20 56.4	0 20 56.2	0 20 56.0	0 20 55.9	0 20 55.8
133 17 30	0 18 51.2	0 18 50.9	0 18 50.7	0 18 50.6	0 18 50.5
133 20 00	0 16 46.0	0 16 45.7	0 16 45.5	0 16 45.3	0 16 45.1
133 22 30	0 14 40.8	0 14 40.4	0 14 40.2	0 14 39.9	0 14 39.8
133 25 00	0 12 35.5	0 12 35.2	0 12 34.8	0 12 34.6	0 12 34.4
133 27 30	0 10 30.3	0 10 29.9	0 10 29.5	0 10 29.2	0 10 29.0
133 30 00	0 08 25.0	0 08 24.6	0 08 24.2	0 08 23.8	0 08 23.5

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	56 30 00	56 32 30	56 35 00	56 37 30	56 40 00
131 00 00	1.0000222	1.0000288	1.0000355	1.0000424	1.0000494
131 02 30	1.0000171	1.0000235	1.0000301	1.0000369	1.0000438
131 05 00	1.0000121	1.0000184	1.0000248	1.0000315	1.0000383
131 07 30	1.0000072	1.0000134	1.0000197	1.0000262	1.0000329
131 10 00	1.0000024	1.0000085	1.0000147	1.0000210	1.0000275
131 12 30	0.9999978	1.0000037	1.0000097	1.0000160	1.0000224
131 15 00	0.9999932	0.9999990	1.0000049	1.0000110	1.0000173
131 17 30	0.9999888	0.9999944	1.0000002	1.0000062	1.0000123
131 20 00	0.9999844	0.9999899	0.9999956	1.0000014	1.0000074
131 22 30	0.9999802	0.9999856	0.9999911	0.9999968	1.0000027
131 25 00	0.9999761	0.9999813	0.9999867	0.9999923	0.9999980
131 27 30	0.9999721	0.9999772	0.9999825	0.9999879	0.9999935
131 30 00	0.9999682	0.9999732	0.9999783	0.9999836	0.9999891
131 32 30	0.9999644	0.9999692	0.9999742	0.9999794	0.9999848
131 35 00	0.9999607	0.9999654	0.9999703	0.9999753	0.9999806
131 37 30	0.9999572	0.9999617	0.9999665	0.9999714	0.9999765
131 40 00	0.9999537	0.9999581	0.9999627	0.9999675	0.9999725
131 42 30	0.9999504	0.9999547	0.9999591	0.9999638	0.9999686
131 45 00	0.9999471	0.9999513	0.9999556	0.9999601	0.9999648
131 47 30	0.9999440	0.9999480	0.9999522	0.9999566	0.9999612
131 50 00	0.9999410	0.9999449	0.9999489	0.9999532	0.9999576
131 52 30	0.9999381	0.9999418	0.9999458	0.9999499	0.9999542
131 55 00	0.9999353	0.9999389	0.9999427	0.9999467	0.9999508
131 57 30	0.9999326	0.9999360	0.9999397	0.9999436	0.9999476
132 00 00	0.9999300	0.9999333	0.9999369	0.9999406	0.9999445
132 02 30	0.9999275	0.9999307	0.9999341	0.9999377	0.9999414
132 05 00	0.9999251	0.9999282	0.9999315	0.9999349	0.9999385
132 07 30	0.9999229	0.9999258	0.9999289	0.9999322	0.9999357
132 10 00	0.9999207	0.9999235	0.9999265	0.9999297	0.9999330
132 12 30	0.9999187	0.9999213	0.9999242	0.9999272	0.9999304
132 15 00	0.9999167	0.9999193	0.9999220	0.9999249	0.9999280
132 17 30	0.9999149	0.9999173	0.9999199	0.9999226	0.9999256
132 20 00	0.9999132	0.9999154	0.9999179	0.9999205	0.9999233
132 22 30	0.9999115	0.9999137	0.9999160	0.9999185	0.9999211
132 25 00	0.9999100	0.9999120	0.9999142	0.9999166	0.9999191
132 27 30	0.9999086	0.9999105	0.9999125	0.9999147	0.9999171
132 30 00	0.9999073	0.9999090	0.9999109	0.9999130	0.9999153
132 32 30	0.9999061	0.9999077	0.9999095	0.9999114	0.9999136
132 35 00	0.9999050	0.9999065	0.9999081	0.9999099	0.9999119
132 37 30	0.9999041	0.9999054	0.9999069	0.9999085	0.9999104
132 40 00	0.9999032	0.9999044	0.9999057	0.9999073	0.9999090
132 42 30	0.9999024	0.9999035	0.9999047	0.9999061	0.9999077
132 45 00	0.9999018	0.9999027	0.9999037	0.9999050	0.9999064
132 47 30	0.9999012	0.9999020	0.9999029	0.9999040	0.9999053
132 50 00	0.9999008	0.9999014	0.9999022	0.9999032	0.9999043
132 52 30	0.9999004	0.9999009	0.9999016	0.9999024	0.9999034
132 55 00	0.9999002	0.9999005	0.9999010	0.9999017	0.9999026
132 57 30	0.9999000	0.9999002	0.9999006	0.9999012	0.9999020
133 00 00	0.9999000	0.9999001	0.9999003	0.9999007	0.9999014
133 02 30	0.9999001	0.9999000	0.9999001	0.9999004	0.9999009
133 05 00	0.9999003	0.9999000	0.9999000	0.9999002	0.9999005
133 07 30	0.9999005	0.9999002	0.9999000	0.9999000	0.9999002
133 10 00	0.9999009	0.9999004	0.9999001	0.9999000	0.9999001
133 12 30	0.9999014	0.9999008	0.9999003	0.9999001	0.9999000
133 15 00	0.9999020	0.9999012	0.9999007	0.9999003	0.9999000
133 17 30	0.9999027	0.9999018	0.9999011	0.9999005	0.9999002
133 20 00	0.9999035	0.9999025	0.9999016	0.9999009	0.9999004
133 22 30	0.9999044	0.9999032	0.9999022	0.9999014	0.9999008
133 25 00	0.9999054	0.9999041	0.9999030	0.9999020	0.9999012
133 27 30	0.9999066	0.9999051	0.9999038	0.9999027	0.9999018
133 30 00	0.9999078	0.9999062	0.9999047	0.9999035	0.9999024

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	56 30 00	56 32 30	56 35 00	56 37 30	56 40 00
133 30 00	0 08 25.0	0 08 24.6	0 08 24.2	0 08 23.8	0 08 23.5
133 32 30	0 06 19.7	0 06 19.2	0 06 18.8	0 06 18.4	0 06 18.1
133 35 00	0 04 14.4	0 04 13.9	0 04 13.4	0 04 13.0	0 04 12.6
133 37 30	0 02 09.1	0 02 08.5	0 02 08.0	0 02 07.6	0 02 07.2
133 40 00	0 00 03.8	0 00 03.2	0 00 02.6	0 00 02.1	0 00 01.7
133 42 30	- 0 02 01.6	- 0 02 02.2	- 0 02 02.8	- 0 02 03.3	- 0 02 03.8
133 45 00	- 0 04 07.0	- 0 04 07.6	- 0 04 08.3	- 0 04 08.8	- 0 04 09.4
133 47 30	- 0 06 12.3	- 0 06 13.1	- 0 06 13.7	- 0 06 14.3	- 0 06 14.9
133 50 00	- 0 08 17.7	- 0 08 18.5	- 0 08 19.2	- 0 08 19.8	- 0 08 20.4
133 52 30	- 0 10 23.2	- 0 10 23.9	- 0 10 24.7	- 0 10 25.4	- 0 10 26.0
133 55 00	- 0 12 28.6	- 0 12 29.4	- 0 12 30.2	- 0 12 30.9	- 0 12 31.6
133 57 30	- 0 14 34.0	- 0 14 34.9	- 0 14 35.7	- 0 14 36.5	- 0 14 37.2
134 00 00	- 0 16 39.5	- 0 16 40.4	- 0 16 41.3	- 0 16 42.1	- 0 16 42.8
134 02 30	- 0 18 45.0	- 0 18 45.9	- 0 18 46.8	- 0 18 47.7	- 0 18 48.4
134 05 00	- 0 20 50.5	- 0 20 51.5	- 0 20 52.4	- 0 20 53.3	- 0 20 54.1
134 07 30	- 0 22 56.0	- 0 22 57.0	- 0 22 58.0	- 0 22 58.9	- 0 22 59.8
134 10 00	- 0 25 01.5	- 0 25 02.6	- 0 25 03.6	- 0 25 04.5	- 0 25 05.4
134 12 30	- 0 27 07.1	- 0 27 08.2	- 0 27 09.2	- 0 27 10.2	- 0 27 11.1
134 15 00	- 0 29 12.6	- 0 29 13.8	- 0 29 14.8	- 0 29 15.9	- 0 29 16.8
134 17 30	- 0 31 18.2	- 0 31 19.4	- 0 31 20.5	- 0 31 21.6	- 0 31 22.6
134 20 00	- 0 33 23.8	- 0 33 25.0	- 0 33 26.2	- 0 33 27.3	- 0 33 28.3
134 22 30	- 0 35 29.4	- 0 35 30.7	- 0 35 31.9	- 0 35 33.0	- 0 35 34.1
134 25 00	- 0 37 35.1	- 0 37 36.3	- 0 37 37.6	- 0 37 38.7	- 0 37 39.9
134 27 30	- 0 39 40.7	- 0 39 42.0	- 0 39 43.3	- 0 39 44.5	- 0 39 45.7
134 30 00	- 0 41 46.4	- 0 41 47.7	- 0 41 49.0	- 0 41 50.3	- 0 41 51.5
134 32 30	- 0 43 52.0	- 0 43 53.4	- 0 43 54.8	- 0 43 56.1	- 0 43 57.3
134 35 00	- 0 45 57.7	- 0 45 59.2	- 0 46 00.5	- 0 46 01.9	- 0 46 03.1
134 37 30	- 0 48 03.4	- 0 48 04.9	- 0 48 06.3	- 0 48 07.7	- 0 48 09.0
134 40 00	- 0 50 09.2	- 0 50 10.7	- 0 50 12.1	- 0 50 13.5	- 0 50 14.9
134 42 30	- 0 52 14.9	- 0 52 16.5	- 0 52 17.9	- 0 52 19.4	- 0 52 20.8
134 45 00	- 0 54 20.7	- 0 54 22.3	- 0 54 23.8	- 0 54 25.3	- 0 54 26.7
134 47 30	- 0 56 26.5	- 0 56 28.1	- 0 56 29.6	- 0 56 31.1	- 0 56 32.6
134 50 00	- 0 58 32.3	- 0 58 33.9	- 0 58 35.5	- 0 58 37.1	- 0 58 38.5
134 52 30	- 1 00 38.1	- 1 00 39.8	- 1 00 41.4	- 1 00 43.0	- 1 00 44.5
134 55 00	- 1 02 43.9	- 1 02 45.6	- 1 02 47.3	- 1 02 48.9	- 1 02 50.5
134 57 30	- 1 04 49.7	- 1 04 51.5	- 1 04 53.2	- 1 04 54.9	- 1 04 56.5
135 00 00	- 1 06 55.6	- 1 06 57.4	- 1 06 59.1	- 1 07 00.8	- 1 07 02.5
135 02 30	- 1 09 01.5	- 1 09 03.3	- 1 09 05.1	- 1 09 06.8	- 1 09 08.5
135 05 00	- 1 11 07.4	- 1 11 09.2	- 1 11 11.1	- 1 11 12.8	- 1 11 14.5
135 07 30	- 1 13 13.3	- 1 13 15.2	- 1 13 17.1	- 1 13 18.9	- 1 13 20.6
135 10 00	- 1 15 19.2	- 1 15 21.2	- 1 15 23.1	- 1 15 24.9	- 1 15 26.7
135 12 30	- 1 17 25.2	- 1 17 27.1	- 1 17 29.1	- 1 17 30.9	- 1 17 32.8
135 15 00	- 1 19 31.1	- 1 19 33.1	- 1 19 35.1	- 1 19 37.0	- 1 19 38.9
135 17 30	- 1 21 37.1	- 1 21 39.2	- 1 21 41.2	- 1 21 43.1	- 1 21 45.0
135 20 00	- 1 23 43.1	- 1 23 45.2	- 1 23 47.2	- 1 23 49.2	- 1 23 51.1
135 22 30	- 1 25 49.1	- 1 25 51.2	- 1 25 53.3	- 1 25 55.3	- 1 25 57.3
135 25 00	- 1 27 55.2	- 1 27 57.3	- 1 27 59.4	- 1 28 01.5	- 1 28 03.5
135 27 30	- 1 30 01.2	- 1 30 03.4	- 1 30 05.5	- 1 30 07.6	- 1 30 09.7
135 30 00	- 1 32 07.3	- 1 32 09.5	- 1 32 11.7	- 1 32 13.8	- 1 32 15.9
135 32 30	- 1 34 13.3	- 1 34 15.6	- 1 34 17.8	- 1 34 20.0	- 1 34 22.1
135 35 00	- 1 36 19.4	- 1 36 21.7	- 1 36 24.0	- 1 36 26.2	- 1 36 28.3
135 37 30	- 1 38 25.6	- 1 38 27.9	- 1 38 30.2	- 1 38 32.4	- 1 38 34.6
135 40 00	- 1 40 31.7	- 1 40 34.1	- 1 40 36.4	- 1 40 38.7	- 1 40 40.9
135 42 30	- 1 42 37.8	- 1 42 40.3	- 1 42 42.6	- 1 42 44.9	- 1 42 47.2
135 45 00	- 1 44 44.0	- 1 44 46.5	- 1 44 48.8	- 1 44 51.2	- 1 44 53.5
135 47 30	- 1 46 50.2	- 1 46 52.7	- 1 46 55.1	- 1 46 57.5	- 1 46 59.8
135 50 00	- 1 48 56.4	- 1 48 58.9	- 1 49 01.4	- 1 49 03.8	- 1 49 06.1
135 52 30	- 1 51 02.6	- 1 51 05.2	- 1 51 07.7	- 1 51 10.1	- 1 51 12.5
135 55 00	- 1 53 08.8	- 1 53 11.4	- 1 53 14.0	- 1 53 16.4	- 1 53 18.9
135 57 30	- 1 55 15.1	- 1 55 17.7	- 1 55 20.3	- 1 55 22.8	- 1 55 25.3
136 00 00	- 1 57 21.4	- 1 57 24.0	- 1 57 26.6	- 1 57 29.2	- 1 57 31.7

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	56 30 00	56 32 30	56 35 00	56 37 30	56 40 00
133 30 00	0.9999078	0.9999062	0.9999047	0.9999035	0.9999024
133 32 30	0.9999091	0.9999073	0.9999058	0.9999044	0.9999032
133 35 00	0.9999105	0.9999086	0.9999069	0.9999054	0.9999041
133 37 30	0.9999121	0.9999100	0.9999082	0.9999065	0.9999050
133 40 00	0.9999137	0.9999115	0.9999095	0.9999077	0.9999061
133 42 30	0.9999154	0.9999131	0.9999110	0.9999090	0.9999073
133 45 00	0.9999173	0.9999148	0.9999125	0.9999104	0.9999085
133 47 30	0.9999192	0.9999166	0.9999142	0.9999119	0.9999099
133 50 00	0.9999212	0.9999185	0.9999159	0.9999135	0.9999114
133 52 30	0.9999234	0.9999205	0.9999178	0.9999153	0.9999129
133 55 00	0.9999256	0.9999226	0.9999197	0.9999171	0.9999146
133 57 30	0.9999280	0.9999248	0.9999218	0.9999190	0.9999164
134 00 00	0.9999304	0.9999271	0.9999239	0.9999210	0.9999183
134 02 30	0.9999330	0.9999295	0.9999262	0.9999231	0.9999202
134 05 00	0.9999356	0.9999320	0.9999286	0.9999253	0.9999223
134 07 30	0.9999383	0.9999346	0.9999310	0.9999277	0.9999245
134 10 00	0.9999412	0.9999373	0.9999336	0.9999301	0.9999268
134 12 30	0.9999442	0.9999401	0.9999363	0.9999326	0.9999291
134 15 00	0.9999472	0.9999430	0.9999390	0.9999352	0.9999316
134 17 30	0.9999504	0.9999460	0.9999419	0.9999379	0.9999342
134 20 00	0.9999536	0.9999491	0.9999449	0.9999408	0.9999369
134 22 30	0.9999570	0.9999523	0.9999479	0.9999437	0.9999397
134 25 00	0.9999604	0.9999557	0.9999511	0.9999467	0.9999425
134 27 30	0.9999640	0.9999591	0.9999544	0.9999498	0.9999455
134 30 00	0.9999676	0.9999626	0.9999577	0.9999531	0.9999486
134 32 30	0.9999714	0.9999662	0.9999612	0.9999564	0.9999518
134 35 00	0.9999752	0.9999699	0.9999647	0.9999598	0.9999550
134 37 30	0.9999792	0.9999737	0.9999684	0.9999633	0.9999584
134 40 00	0.9999832	0.9999776	0.9999722	0.9999669	0.9999619
134 42 30	0.9999874	0.9999816	0.9999760	0.9999706	0.9999655
134 45 00	0.9999916	0.9999857	0.9999800	0.9999745	0.9999691
134 47 30	0.9999960	0.9999899	0.9999840	0.9999784	0.9999729
134 50 00	1.0000004	0.9999942	0.9999882	0.9999824	0.9999768
134 52 30	1.0000050	0.9999986	0.9999924	0.9999865	0.9999807
134 55 00	1.0000096	1.0000031	0.9999968	0.9999907	0.9999848
134 57 30	1.0000144	1.0000077	1.0000012	0.9999950	0.9999889
135 00 00	1.0000192	1.0000124	1.0000058	0.9999994	0.9999932
135 02 30	1.0000241	1.0000172	1.0000104	1.0000039	0.9999975
135 05 00	1.0000292	1.0000221	1.0000152	1.0000085	1.0000020
135 07 30	1.0000343	1.0000271	1.0000200	1.0000132	1.0000065
135 10 00	1.0000395	1.0000322	1.0000250	1.0000180	1.0000112
135 12 30	1.0000449	1.0000373	1.0000300	1.0000229	1.0000159
135 15 00	1.0000503	1.0000426	1.0000351	1.0000278	1.0000208
135 17 30	1.0000558	1.0000480	1.0000404	1.0000329	1.0000257
135 20 00	1.0000614	1.0000535	1.0000457	1.0000381	1.0000307
135 22 30	1.0000672	1.0000590	1.0000511	1.0000434	1.0000359
135 25 00	1.0000730	1.0000647	1.0000566	1.0000487	1.0000411
135 27 30	1.0000789	1.0000705	1.0000622	1.0000542	1.0000464
135 30 00	1.0000849	1.0000763	1.0000679	1.0000598	1.0000518
135 32 30	1.0000910	1.0000823	1.0000738	1.0000654	1.0000573
135 35 00	1.0000972	1.0000883	1.0000797	1.0000712	1.0000629
135 37 30	1.0001035	1.0000945	1.0000857	1.0000770	1.0000686
135 40 00	1.0001099	1.0001007	1.0000917	1.0000830	1.0000744
135 42 30	1.0001164	1.0001071	1.0000979	1.0000890	1.0000803
135 45 00	1.0001230	1.0001135	1.0001042	1.0000952	1.0000863
135 47 30	1.0001296	1.0001200	1.0001106	1.0001014	1.0000924
135 50 00	1.0001364	1.0001266	1.0001171	1.0001077	1.0000986
135 52 30	1.0001433	1.0001334	1.0001236	1.0001141	1.0001048
135 55 00	1.0001502	1.0001402	1.0001303	1.0001206	1.0001112
135 57 30	1.0001573	1.0001471	1.0001371	1.0001273	1.0001177
136 00 00	1.0001645	1.0001541	1.0001439	1.0001340	1.0001242

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	56 40 00	56 42 30	56 45 00	56 47 30	56 50 00
131 00 00	2 13 21.5	2 13 23.7	2 13 25.9	2 13 28.1	2 13 30.4
131 02 30	2 11 17.0	2 11 19.1	2 11 21.3	2 11 23.5	2 11 25.8
131 05 00	2 09 12.4	2 09 14.5	2 09 16.6	2 09 18.8	2 09 21.1
131 07 30	2 07 07.9	2 07 09.9	2 07 12.0	2 07 14.2	2 07 16.3
131 10 00	2 05 03.3	2 05 05.3	2 05 07.4	2 05 09.5	2 05 11.6
131 12 30	2 02 58.8	2 03 00.7	2 03 02.7	2 03 04.8	2 03 06.9
131 15 00	2 00 54.2	2 00 56.1	2 00 58.0	2 01 00.0	2 01 02.1
131 17 30	1 58 49.6	1 58 51.4	1 58 53.3	1 58 55.3	1 58 57.3
131 20 00	1 56 44.9	1 56 46.8	1 56 48.6	1 56 50.6	1 56 52.5
131 22 30	1 54 40.3	1 54 42.1	1 54 43.9	1 54 45.8	1 54 47.7
131 25 00	1 52 35.6	1 52 37.4	1 52 39.2	1 52 41.0	1 52 42.9
131 27 30	1 50 31.0	1 50 32.7	1 50 34.4	1 50 36.2	1 50 38.1
131 30 00	1 48 26.3	1 48 28.0	1 48 29.7	1 48 31.4	1 48 33.2
131 32 30	1 46 21.6	1 46 23.2	1 46 24.9	1 46 26.6	1 46 28.4
131 35 00	1 44 16.9	1 44 18.5	1 44 20.1	1 44 21.8	1 44 23.5
131 37 30	1 42 12.2	1 42 13.7	1 42 15.3	1 42 16.9	1 42 18.6
131 40 00	1 40 07.4	1 40 08.9	1 40 10.5	1 40 12.1	1 40 13.7
131 42 30	1 38 02.6	1 38 04.1	1 38 05.6	1 38 07.2	1 38 08.8
131 45 00	1 35 57.9	1 35 59.3	1 36 00.8	1 36 02.3	1 36 03.9
131 47 30	1 33 53.1	1 33 54.5	1 33 55.9	1 33 57.4	1 33 58.9
131 50 00	1 31 48.3	1 31 49.6	1 31 51.0	1 31 52.5	1 31 53.9
131 52 30	1 29 43.5	1 29 44.8	1 29 46.1	1 29 47.5	1 29 49.0
131 55 00	1 27 38.6	1 27 39.9	1 27 41.2	1 27 42.6	1 27 44.0
131 57 30	1 25 33.8	1 25 35.0	1 25 36.3	1 25 37.6	1 25 39.0
132 00 00	1 23 28.9	1 23 30.1	1 23 31.3	1 23 32.6	1 23 33.9
132 02 30	1 21 24.0	1 21 25.2	1 21 26.4	1 21 27.6	1 21 28.9
132 05 00	1 19 19.1	1 19 20.2	1 19 21.4	1 19 22.6	1 19 23.8
132 07 30	1 17 14.2	1 17 15.3	1 17 16.4	1 17 17.6	1 17 18.8
132 10 00	1 15 09.3	1 15 10.3	1 15 11.4	1 15 12.5	1 15 13.7
132 12 30	1 13 04.4	1 13 05.3	1 13 06.4	1 13 07.5	1 13 08.6
132 15 00	1 10 59.4	1 11 00.4	1 11 01.3	1 11 02.4	1 11 03.5
132 17 30	1 08 54.4	1 08 55.3	1 08 56.3	1 08 57.3	1 08 58.3
132 20 00	1 06 49.5	1 06 50.3	1 06 51.2	1 06 52.2	1 06 53.2
132 22 30	1 04 44.5	1 04 45.3	1 04 46.1	1 04 47.1	1 04 48.0
132 25 00	1 02 39.4	1 02 40.2	1 02 41.0	1 02 41.9	1 02 42.9
132 27 30	1 00 34.4	1 00 35.1	1 00 35.9	1 00 36.8	1 00 37.7
132 30 00	0 58 29.4	0 58 30.1	0 58 30.8	0 58 31.6	0 58 32.5
132 32 30	0 56 24.3	0 56 25.0	0 56 25.7	0 56 26.4	0 56 27.2
132 35 00	0 54 19.2	0 54 19.8	0 54 20.5	0 54 21.2	0 54 22.0
132 37 30	0 52 14.1	0 52 14.7	0 52 15.3	0 52 16.0	0 52 16.7
132 40 00	0 50 09.0	0 50 09.6	0 50 10.1	0 50 10.8	0 50 11.5
132 42 30	0 48 03.9	0 48 04.4	0 48 04.9	0 48 05.5	0 48 06.2
132 45 00	0 45 58.7	0 45 59.2	0 45 59.7	0 46 00.3	0 46 00.9
132 47 30	0 43 53.6	0 43 54.0	0 43 54.5	0 43 55.0	0 43 55.6
132 50 00	0 41 48.4	0 41 48.8	0 41 49.2	0 41 49.7	0 41 50.3
132 52 30	0 39 43.2	0 39 43.6	0 39 44.0	0 39 44.4	0 39 44.9
132 55 00	0 37 38.0	0 37 38.3	0 37 38.7	0 37 39.1	0 37 39.6
132 57 30	0 35 32.8	0 35 33.1	0 35 33.4	0 35 33.8	0 35 34.2
133 00 00	0 33 27.6	0 33 27.8	0 33 28.1	0 33 28.4	0 33 28.8
133 02 30	0 31 22.3	0 31 22.5	0 31 22.7	0 31 23.0	0 31 23.4
133 05 00	0 29 17.1	0 29 17.2	0 29 17.4	0 29 17.7	0 29 18.0
133 07 30	0 27 11.8	0 27 11.9	0 27 12.0	0 27 12.3	0 27 12.5
133 10 00	0 25 06.5	0 25 06.5	0 25 06.7	0 25 06.8	0 25 07.1
133 12 30	0 23 01.2	0 23 01.2	0 23 01.3	0 23 01.4	0 23 01.6
133 15 00	0 20 55.8	0 20 55.8	0 20 55.9	0 20 56.0	0 20 56.1
133 17 30	0 18 50.5	0 18 50.4	0 18 50.4	0 18 50.5	0 18 50.6
133 20 00	0 16 45.1	0 16 45.0	0 16 45.0	0 16 45.0	0 16 45.1
133 22 30	0 14 39.8	0 14 39.6	0 14 39.6	0 14 39.5	0 14 39.6
133 25 00	0 12 34.4	0 12 34.2	0 12 34.1	0 12 34.0	0 12 34.0
133 27 30	0 10 29.0	0 10 28.8	0 10 28.6	0 10 28.5	0 10 28.5
133 30 00	0 08 23.5	0 08 23.3	0 08 23.1	0 08 23.0	0 08 22.9

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	56 40 00	56 42 30	56 45 00	56 47 30	56 50 00
131 00 00	1.0000494	1.0000566	1.0000640	1.0000716	1.0000794
131 02 30	1.0000438	1.0000509	1.0000582	1.0000656	1.0000732
131 05 00	1.0000383	1.0000452	1.0000524	1.0000597	1.0000672
131 07 30	1.0000329	1.0000397	1.0000467	1.0000539	1.0000612
131 10 00	1.0000275	1.0000343	1.0000411	1.0000482	1.0000554
131 12 30	1.0000224	1.0000289	1.0000357	1.0000426	1.0000497
131 15 00	1.0000173	1.0000237	1.0000303	1.0000371	1.0000441
131 17 30	1.0000123	1.0000186	1.0000251	1.0000318	1.0000386
131 20 00	1.0000074	1.0000136	1.0000200	1.0000265	1.0000332
131 22 30	1.0000027	1.0000087	1.0000150	1.0000214	1.0000279
131 25 00	0.9999980	1.0000040	1.0000101	1.0000163	1.0000228
131 27 30	0.9999935	0.9999993	1.0000053	1.0000114	1.0000177
131 30 00	0.9999891	0.9999947	1.0000006	1.0000066	1.0000128
131 32 30	0.9999848	0.9999903	0.9999960	1.0000019	1.0000079
131 35 00	0.9999806	0.9999860	0.9999915	0.9999973	1.0000032
131 37 30	0.9999765	0.9999817	0.9999872	0.9999928	0.9999986
131 40 00	0.9999725	0.9999776	0.9999829	0.9999884	0.9999940
131 42 30	0.9999686	0.9999736	0.9999788	0.9999841	0.9999896
131 45 00	0.9999648	0.9999697	0.9999747	0.9999799	0.9999853
131 47 30	0.9999612	0.9999659	0.9999708	0.9999759	0.9999811
131 50 00	0.9999576	0.9999622	0.9999670	0.9999719	0.9999771
131 52 30	0.9999542	0.9999586	0.9999633	0.9999681	0.9999731
131 55 00	0.9999508	0.9999551	0.9999596	0.9999643	0.9999692
131 57 30	0.9999476	0.9999518	0.9999562	0.9999607	0.9999654
132 00 00	0.9999445	0.9999485	0.9999528	0.9999572	0.9999618
132 02 30	0.9999414	0.9999454	0.9999495	0.9999538	0.9999582
132 05 00	0.9999385	0.9999423	0.9999463	0.9999504	0.9999548
132 07 30	0.9999357	0.9999394	0.9999432	0.9999472	0.9999514
132 10 00	0.9999330	0.9999366	0.9999403	0.9999441	0.9999482
132 12 30	0.9999304	0.9999338	0.9999374	0.9999412	0.9999451
132 15 00	0.9999280	0.9999312	0.9999346	0.9999383	0.9999421
132 17 30	0.9999256	0.9999287	0.9999320	0.9999355	0.9999391
132 20 00	0.9999233	0.9999263	0.9999295	0.9999328	0.9999363
132 22 30	0.9999211	0.9999240	0.9999270	0.9999302	0.9999336
132 25 00	0.9999191	0.9999218	0.9999247	0.9999278	0.9999310
132 27 30	0.9999171	0.9999197	0.9999225	0.9999254	0.9999286
132 30 00	0.9999153	0.9999177	0.9999204	0.9999232	0.9999262
132 32 30	0.9999136	0.9999159	0.9999184	0.9999210	0.9999239
132 35 00	0.9999119	0.9999141	0.9999165	0.9999190	0.9999217
132 37 30	0.9999104	0.9999124	0.9999147	0.9999171	0.9999196
132 40 00	0.9999090	0.9999109	0.9999130	0.9999152	0.9999177
132 42 30	0.9999077	0.9999094	0.9999114	0.9999135	0.9999158
132 45 00	0.9999064	0.9999081	0.9999099	0.9999119	0.9999140
132 47 30	0.9999053	0.9999068	0.9999085	0.9999104	0.9999124
132 50 00	0.9999043	0.9999057	0.9999072	0.9999089	0.9999108
132 52 30	0.9999034	0.9999046	0.9999060	0.9999076	0.9999094
132 55 00	0.9999026	0.9999037	0.9999050	0.9999064	0.9999081
132 57 30	0.9999020	0.9999029	0.9999040	0.9999053	0.9999068
133 00 00	0.9999014	0.9999022	0.9999032	0.9999043	0.9999057
133 02 30	0.9999009	0.9999016	0.9999024	0.9999034	0.9999047
133 05 00	0.9999005	0.9999010	0.9999018	0.9999026	0.9999037
133 07 30	0.9999002	0.9999006	0.9999012	0.9999020	0.9999029
133 10 00	0.9999001	0.9999003	0.9999008	0.9999014	0.9999022
133 12 30	0.9999000	0.9999001	0.9999004	0.9999009	0.9999016
133 15 00	0.9999000	0.9999000	0.9999002	0.9999005	0.9999011
133 17 30	0.9999002	0.9999000	0.9999000	0.9999002	0.9999006
133 20 00	0.9999004	0.9999001	0.9999000	0.9999001	0.9999003
133 22 30	0.9999008	0.9999003	0.9999001	0.9999000	0.9999001
133 25 00	0.9999012	0.9999006	0.9999002	0.9999000	0.9999000
133 27 30	0.9999018	0.9999011	0.9999005	0.9999002	0.9999000
133 30 00	0.9999024	0.9999016	0.9999009	0.9999004	0.9999001

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	56 40 00	56 42 30	56 45 00	56 47 30	56 50 00
133 30 00	0 08 23.5	0 08 23.3	0 08 23.1	0 08 23.0	0 08 22.9
133 32 30	0 06 18.1	0 06 17.8	0 06 17.6	0 06 17.4	0 06 17.3
133 35 00	0 04 12.6	0 04 12.3	0 04 12.1	0 04 11.8	0 04 11.7
133 37 30	0 02 07.2	0 02 06.8	0 02 06.5	0 02 06.3	0 02 06.1
133 40 00	0 00 01.7	0 00 01.3	0 00 00.9	0 00 00.7	0 00 00.4
133 42 30	- 0 02 03.8	- 0 02 04.3	- 0 02 04.6	- 0 02 05.0	- 0 02 05.2
133 45 00	- 0 04 09.4	- 0 04 09.8	- 0 04 10.2	- 0 04 10.6	- 0 04 10.9
133 47 30	- 0 06 14.9	- 0 06 15.4	- 0 06 15.8	- 0 06 16.2	- 0 06 16.6
133 50 00	- 0 08 20.4	- 0 08 21.0	- 0 08 21.5	- 0 08 21.9	- 0 08 22.3
133 52 30	- 0 10 26.0	- 0 10 26.6	- 0 10 27.1	- 0 10 27.6	- 0 10 28.0
133 55 00	- 0 12 31.6	- 0 12 32.2	- 0 12 32.8	- 0 12 33.3	- 0 12 33.8
133 57 30	- 0 14 37.2	- 0 14 37.8	- 0 14 38.5	- 0 14 39.0	- 0 14 39.5
134 00 00	- 0 16 42.8	- 0 16 43.5	- 0 16 44.1	- 0 16 44.7	- 0 16 45.3
134 02 30	- 0 18 48.4	- 0 18 49.2	- 0 18 49.9	- 0 18 50.5	- 0 18 51.1
134 05 00	- 0 20 54.1	- 0 20 54.9	- 0 20 55.6	- 0 20 56.2	- 0 20 56.9
134 07 30	- 0 22 59.8	- 0 23 00.6	- 0 23 01.3	- 0 23 02.0	- 0 23 02.7
134 10 00	- 0 25 05.4	- 0 25 06.3	- 0 25 07.1	- 0 25 07.8	- 0 25 08.5
134 12 30	- 0 27 11.1	- 0 27 12.0	- 0 27 12.8	- 0 27 13.6	- 0 27 14.4
134 15 00	- 0 29 16.8	- 0 29 17.8	- 0 29 18.6	- 0 29 19.4	- 0 29 20.2
134 17 30	- 0 31 22.6	- 0 31 23.5	- 0 31 24.4	- 0 31 25.3	- 0 31 26.1
134 20 00	- 0 33 28.3	- 0 33 29.3	- 0 33 30.3	- 0 33 31.1	- 0 33 32.0
134 22 30	- 0 35 34.1	- 0 35 35.1	- 0 35 36.1	- 0 35 37.0	- 0 35 37.9
134 25 00	- 0 37 39.9	- 0 37 40.9	- 0 37 41.9	- 0 37 42.9	- 0 37 43.8
134 27 3	- 0 39 45.7	- 0 39 46.8	- 0 39 47.8	- 0 39 48.8	- 0 39 49.8
134 30 00	- 0 41 51.5	- 0 41 52.6	- 0 41 53.7	- 0 41 54.7	- 0 41 55.7
134 32 30	- 0 43 57.3	- 0 43 58.5	- 0 43 59.6	- 0 44 00.7	- 0 44 01.7
134 35 00	- 0 46 03.1	- 0 46 04.4	- 0 46 05.5	- 0 46 06.6	- 0 46 07.7
134 37 30	- 0 48 09.0	- 0 48 10.3	- 0 48 11.5	- 0 48 12.6	- 0 48 13.7
134 40 00	- 0 50 14.9	- 0 50 16.2	- 0 50 17.4	- 0 50 18.6	- 0 50 19.7
134 42 30	- 0 52 20.8	- 0 52 22.1	- 0 52 23.4	- 0 52 24.6	- 0 52 25.8
134 45 00	- 0 54 26.7	- 0 54 28.0	- 0 54 29.4	- 0 54 30.6	- 0 54 31.8
134 47 30	- 0 56 32.6	- 0 56 34.0	- 0 56 35.4	- 0 56 36.7	- 0 56 37.9
134 50 00	- 0 58 38.5	- 0 58 40.0	- 0 58 41.4	- 0 58 42.7	- 0 58 44.0
134 52 30	- 1 00 44.5	- 1 00 46.0	- 1 00 47.4	- 1 00 48.8	- 1 00 50.1
134 55 00	- 1 02 50.5	- 1 02 52.0	- 1 02 53.4	- 1 02 54.9	- 1 02 56.2
134 57 30	- 1 04 56.5	- 1 04 58.0	- 1 04 59.5	- 1 05 01.0	- 1 05 02.3
135 00 00	- 1 07 02.5	- 1 07 04.1	- 1 07 05.6	- 1 07 07.1	- 1 07 08.5
135 02 30	- 1 09 08.5	- 1 09 10.1	- 1 09 11.7	- 1 09 13.2	- 1 09 14.7
135 05 00	- 1 11 14.5	- 1 11 16.2	- 1 11 17.8	- 1 11 19.4	- 1 11 20.9
135 07 30	- 1 13 20.6	- 1 13 22.3	- 1 13 23.9	- 1 13 25.5	- 1 13 27.1
135 10 00	- 1 15 26.7	- 1 15 28.4	- 1 15 30.1	- 1 15 31.7	- 1 15 33.3
135 12 30	- 1 17 32.8	- 1 17 34.5	- 1 17 36.2	- 1 17 37.9	- 1 17 39.5
135 15 00	- 1 19 38.9	- 1 19 40.7	- 1 19 42.4	- 1 19 44.1	- 1 19 45.8
135 17 30	- 1 21 45.0	- 1 21 46.8	- 1 21 48.6	- 1 21 50.4	- 1 21 52.0
135 20 00	- 1 23 51.1	- 1 23 53.0	- 1 23 54.8	- 1 23 56.6	- 1 23 58.3
135 22 30	- 1 25 57.3	- 1 25 59.2	- 1 26 01.1	- 1 26 02.9	- 1 26 04.6
135 25 00	- 1 28 03.5	- 1 28 05.4	- 1 28 07.3	- 1 28 09.2	- 1 28 10.9
135 27 30	- 1 30 09.7	- 1 30 11.6	- 1 30 13.6	- 1 30 15.5	- 1 30 17.3
135 30 00	- 1 32 15.9	- 1 32 17.9	- 1 32 19.9	- 1 32 21.8	- 1 32 23.6
135 32 30	- 1 34 22.1	- 1 34 24.2	- 1 34 26.2	- 1 34 28.1	- 1 34 30.0
135 35 00	- 1 36 28.3	- 1 36 30.4	- 1 36 32.5	- 1 36 34.5	- 1 36 36.4
135 37 30	- 1 38 34.6	- 1 38 36.7	- 1 38 38.8	- 1 38 40.8	- 1 38 42.8
135 40 00	- 1 40 40.9	- 1 40 43.0	- 1 40 45.1	- 1 40 47.2	- 1 40 49.2
135 42 30	- 1 42 47.2	- 1 42 49.4	- 1 42 51.5	- 1 42 53.6	- 1 42 55.6
135 45 00	- 1 44 53.5	- 1 44 55.7	- 1 44 57.9	- 1 45 00.0	- 1 45 02.1
135 47 30	- 1 46 59.8	- 1 47 02.1	- 1 47 04.3	- 1 47 06.4	- 1 47 08.6
135 50 00	- 1 49 06.1	- 1 49 08.4	- 1 49 10.7	- 1 49 12.9	- 1 49 15.0
135 52 30	- 1 51 12.5	- 1 51 14.8	- 1 51 17.1	- 1 51 19.4	- 1 51 21.5
135 55 00	- 1 53 18.9	- 1 53 21.3	- 1 53 23.6	- 1 53 25.8	- 1 53 28.1
135 57 30	- 1 55 25.3	- 1 55 27.7	- 1 55 30.0	- 1 55 32.3	- 1 55 34.6
136 00 00	- 1 57 31.7	- 1 57 34.1	- 1 57 36.5	- 1 57 38.9	- 1 57 41.1

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	56 40 00	56 42 30	56 45 00	56 47 30	56 50 00
133 30 00	0.9999024	0.9999016	0.9999009	0.9999004	0.9999001
133 32 30	0.9999032	0.9999022	0.9999014	0.9999007	0.9999003
133 35 00	0.9999041	0.9999029	0.9999020	0.9999012	0.9999006
133 37 30	0.9999050	0.9999037	0.9999026	0.9999017	0.9999010
133 40 00	0.9999061	0.9999047	0.9999034	0.9999024	0.9999015
133 42 30	0.9999073	0.9999057	0.9999043	0.9999031	0.9999021
133 45 00	0.9999085	0.9999068	0.9999053	0.9999040	0.9999028
133 47 30	0.9999099	0.9999080	0.9999064	0.9999049	0.9999036
133 50 00	0.9999114	0.9999094	0.9999076	0.9999060	0.9999046
133 52 30	0.9999129	0.9999108	0.9999089	0.9999071	0.9999056
133 55 00	0.9999146	0.9999123	0.9999103	0.9999084	0.9999067
133 57 30	0.9999164	0.9999140	0.9999117	0.9999097	0.9999079
134 00 00	0.9999183	0.9999157	0.9999133	0.9999112	0.9999092
134 02 30	0.9999202	0.9999175	0.9999150	0.9999127	0.9999106
134 05 00	0.9999223	0.9999195	0.9999168	0.9999144	0.9999121
134 07 30	0.9999245	0.9999215	0.9999187	0.9999161	0.9999137
134 10 00	0.9999268	0.9999236	0.9999207	0.9999180	0.9999154
134 12 30	0.9999291	0.9999259	0.9999228	0.9999199	0.9999172
134 15 00	0.9999316	0.9999282	0.9999250	0.9999220	0.9999192
134 17 30	0.9999342	0.9999307	0.9999273	0.9999241	0.9999212
134 20 00	0.9999369	0.9999332	0.9999297	0.9999264	0.9999233
134 22 30	0.9999397	0.9999358	0.9999322	0.9999287	0.9999255
134 25 00	0.9999425	0.9999386	0.9999348	0.9999312	0.9999278
134 27 30	0.9999455	0.9999414	0.9999375	0.9999337	0.9999302
134 30 00	0.9999486	0.9999443	0.9999402	0.9999364	0.9999327
134 32 30	0.9999518	0.9999474	0.9999431	0.9999391	0.9999353
134 35 00	0.9999550	0.9999505	0.9999461	0.9999420	0.9999380
134 37 30	0.9999584	0.9999537	0.9999492	0.9999449	0.9999408
134 40 00	0.9999619	0.9999570	0.9999524	0.9999479	0.9999437
134 42 30	0.9999655	0.9999605	0.9999557	0.9999511	0.9999467
134 45 00	0.9999691	0.9999640	0.9999591	0.9999543	0.9999498
134 47 30	0.9999729	0.9999676	0.9999625	0.9999576	0.9999530
134 50 00	0.9999768	0.9999713	0.9999661	0.9999611	0.9999563
134 52 30	0.9999807	0.9999751	0.9999698	0.9999646	0.9999596
134 55 00	0.9999848	0.9999791	0.9999735	0.9999682	0.9999631
134 57 30	0.9999889	0.9999831	0.9999774	0.9999720	0.9999667
135 00 00	0.9999932	0.9999872	0.9999814	0.9999758	0.9999704
135 02 30	0.9999975	0.9999914	0.9999854	0.9999797	0.9999741
135 05 00	1.0000020	0.9999957	0.9999896	0.9999837	0.9999780
135 07 30	1.0000065	1.0000001	0.9999939	0.9999878	0.9999820
135 10 00	1.0000112	1.0000046	0.9999982	0.9999920	0.9999860
135 12 30	1.0000159	1.0000092	1.0000027	0.9999963	0.9999902
135 15 00	1.0000208	1.0000139	1.0000072	1.0000007	0.9999944
135 17 30	1.0000257	1.0000187	1.0000118	1.0000052	0.9999988
135 20 00	1.0000307	1.0000236	1.0000166	1.0000098	1.0000032
135 22 30	1.0000359	1.0000285	1.0000214	1.0000145	1.0000078
135 25 00	1.0000411	1.0000336	1.0000263	1.0000193	1.0000124
135 27 30	1.0000464	1.0000388	1.0000314	1.0000242	1.0000172
135 30 00	1.0000518	1.0000440	1.0000365	1.0000291	1.0000220
135 32 30	1.0000573	1.0000494	1.0000417	1.0000342	1.0000269
135 35 00	1.0000629	1.0000549	1.0000470	1.0000394	1.0000319
135 37 30	1.0000686	1.0000604	1.0000524	1.0000446	1.0000370
135 40 00	1.0000744	1.0000661	1.0000579	1.0000500	1.0000422
135 42 30	1.0000803	1.0000718	1.0000635	1.0000554	1.0000475
135 45 00	1.0000863	1.0000777	1.0000692	1.0000610	1.0000529
135 47 30	1.0000924	1.0000836	1.0000750	1.0000666	1.0000584
135 50 00	1.0000986	1.0000896	1.0000809	1.0000723	1.0000640
135 52 30	1.0001048	1.0000957	1.0000868	1.0000782	1.0000697
135 55 00	1.0001112	1.0001020	1.0000929	1.0000841	1.0000755
135 57 30	1.0001177	1.0001083	1.0000991	1.0000901	1.0000813
136 00 00	1.0001242	1.0001147	1.0001053	1.0000962	1.0000873

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	56 50 00	56 52 30	56 55 00	56 57 30	57 00 00
131 00 00	2 13 30.4	2 13 32.8	2 13 35.2	2 13 37.7	2 13 40.2
131 02 30	2 11 25.8	2 11 28.1	2 11 30.4	2 11 32.9	2 11 35.3
131 05 00	2 09 21.1	2 09 23.3	2 09 25.7	2 09 28.0	2 09 30.5
131 07 30	2 07 16.3	2 07 18.6	2 07 20.9	2 07 23.2	2 07 25.6
131 10 00	2 05 11.6	2 05 13.8	2 05 16.0	2 05 18.3	2 05 20.7
131 12 30	2 03 06.9	2 03 09.0	2 03 11.2	2 03 13.5	2 03 15.8
131 15 00	2 01 02.1	2 01 04.2	2 01 06.4	2 01 08.6	2 01 10.9
131 17 30	1 58 57.3	1 58 59.4	1 59 01.5	1 59 03.7	1 59 05.9
131 20 00	1 56 52.5	1 56 54.6	1 56 56.7	1 56 58.8	1 57 01.0
131 22 30	1 54 47.7	1 54 49.7	1 54 51.8	1 54 53.9	1 54 56.0
131 25 00	1 52 42.9	1 52 44.9	1 52 46.9	1 52 48.9	1 52 51.0
131 27 30	1 50 38.1	1 50 40.0	1 50 42.0	1 50 44.0	1 50 46.0
131 30 00	1 48 33.2	1 48 35.1	1 48 37.0	1 48 39.0	1 48 41.0
131 32 30	1 46 28.4	1 46 30.2	1 46 32.1	1 46 34.0	1 46 36.0
131 35 00	1 44 23.5	1 44 25.3	1 44 27.1	1 44 29.0	1 44 31.0
131 37 30	1 42 18.6	1 42 20.4	1 42 22.2	1 42 24.0	1 42 25.9
131 40 00	1 40 13.7	1 40 15.4	1 40 17.2	1 40 19.0	1 40 20.8
131 42 30	1 38 08.8	1 38 10.5	1 38 12.2	1 38 13.9	1 38 15.8
131 45 00	1 36 03.9	1 36 05.5	1 36 07.2	1 36 08.9	1 36 10.7
131 47 30	1 33 58.9	1 34 00.5	1 34 02.1	1 34 03.8	1 34 05.6
131 50 00	1 31 53.9	1 31 55.5	1 31 57.1	1 31 58.7	1 32 00.4
131 52 30	1 29 49.0	1 29 50.5	1 29 52.0	1 29 53.6	1 29 55.3
131 55 00	1 27 44.0	1 27 45.4	1 27 46.9	1 27 48.5	1 27 50.1
131 57 30	1 25 39.0	1 25 40.4	1 25 41.9	1 25 43.4	1 25 45.0
132 00 00	1 23 33.9	1 23 35.3	1 23 36.7	1 23 38.2	1 23 39.8
132 02 30	1 21 28.9	1 21 30.2	1 21 31.6	1 21 33.1	1 21 34.6
132 05 00	1 19 23.8	1 19 25.1	1 19 26.5	1 19 27.9	1 19 29.4
132 07 30	1 17 18.8	1 17 20.0	1 17 21.3	1 17 22.7	1 17 24.1
132 10 00	1 15 13.7	1 15 14.9	1 15 16.2	1 15 17.5	1 15 18.9
132 12 30	1 13 08.6	1 13 09.8	1 13 11.0	1 13 12.3	1 13 13.6
132 15 00	1 11 03.5	1 11 04.6	1 11 05.8	1 11 07.0	1 11 08.3
132 17 30	1 08 58.3	1 08 59.4	1 09 00.6	1 09 01.8	1 09 03.1
132 20 00	1 06 53.2	1 06 54.3	1 06 55.4	1 06 56.5	1 06 57.8
132 22 30	1 04 48.0	1 04 49.1	1 04 50.1	1 04 51.3	1 04 52.4
132 25 00	1 02 42.9	1 02 43.8	1 02 44.9	1 02 46.0	1 02 47.1
132 27 30	1 00 37.7	1 00 38.6	1 00 39.6	1 00 40.6	1 00 41.7
132 30 00	0 58 32.5	0 58 33.4	0 58 34.3	0 58 35.3	0 58 36.4
132 32 30	0 56 27.2	0 56 28.1	0 56 29.0	0 56 30.0	0 56 31.0
132 35 00	0 54 22.0	0 54 22.8	0 54 23.7	0 54 24.6	0 54 25.6
132 37 30	0 52 16.7	0 52 17.5	0 52 18.4	0 52 19.3	0 52 20.2
132 40 00	0 50 11.5	0 50 12.2	0 50 13.0	0 50 13.9	0 50 14.8
132 42 30	0 48 06.2	0 48 06.9	0 48 07.7	0 48 08.5	0 48 09.3
132 45 00	0 46 00.9	0 46 01.6	0 46 02.3	0 46 03.1	0 46 03.9
132 47 30	0 43 55.6	0 43 56.2	0 43 56.9	0 43 57.6	0 43 58.4
132 50 00	0 41 50.3	0 41 50.8	0 41 51.5	0 41 52.2	0 41 52.9
132 52 30	0 39 44.9	0 39 45.5	0 39 46.1	0 39 46.7	0 39 47.4
132 55 00	0 37 39.6	0 37 40.1	0 37 40.6	0 37 41.2	0 37 41.9
132 57 30	0 35 34.2	0 35 34.6	0 35 35.2	0 35 35.7	0 35 36.4
133 00 00	0 33 28.8	0 33 29.2	0 33 29.7	0 33 30.2	0 33 30.8
133 02 30	0 31 23.4	0 31 23.8	0 31 24.2	0 31 24.7	0 31 25.3
133 05 00	0 29 18.0	0 29 18.3	0 29 18.7	0 29 19.2	0 29 19.7
133 07 30	0 27 12.5	0 27 12.8	0 27 13.2	0 27 13.6	0 27 14.1
133 10 00	0 25 07.1	0 25 07.3	0 25 07.7	0 25 08.1	0 25 08.5
133 12 30	0 23 01.6	0 23 01.8	0 23 02.1	0 23 02.5	0 23 02.9
133 15 00	0 20 56.1	0 20 56.3	0 20 56.6	0 20 56.9	0 20 57.2
133 17 30	0 18 50.6	0 18 50.8	0 18 51.0	0 18 51.3	0 18 51.6
133 20 00	0 16 45.1	0 16 45.2	0 16 45.4	0 16 45.6	0 16 45.9
133 22 30	0 14 39.6	0 14 39.7	0 14 39.8	0 14 40.0	0 14 40.2
133 25 00	0 12 34.0	0 12 34.1	0 12 34.2	0 12 34.3	0 12 34.5
133 27 30	0 10 28.5	0 10 28.5	0 10 28.5	0 10 28.6	0 10 28.8
133 30 00	0 08 22.9	0 08 22.9	0 08 22.9	0 08 23.0	0 08 23.1

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	56 50 00	56 52 30	56 55 00	56 57 30	57 00 00
131 00 00	1.0000794	1.0000873	1.0000953	1.0001036	1.0001120
131 02 30	1.0000732	1.0000810	1.0000889	1.0000970	1.0001053
131 05 00	1.0000672	1.0000748	1.0000826	1.0000906	1.0000988
131 07 30	1.0000612	1.0000687	1.0000764	1.0000843	1.0000923
131 10 00	1.0000554	1.0000628	1.0000704	1.0000781	1.0000860
131 12 30	1.0000497	1.0000570	1.0000644	1.0000720	1.0000798
131 15 00	1.0000441	1.0000512	1.0000585	1.0000660	1.0000737
131 17 30	1.0000386	1.0000456	1.0000528	1.0000601	1.0000677
131 20 00	1.0000332	1.0000401	1.0000471	1.0000544	1.0000617
131 22 30	1.0000279	1.0000347	1.0000416	1.0000487	1.0000560
131 25 00	1.0000228	1.0000294	1.0000362	1.0000431	1.0000503
131 27 30	1.0000177	1.0000242	1.0000309	1.0000377	1.0000447
131 30 00	1.0000128	1.0000191	1.0000256	1.0000323	1.0000392
131 32 30	1.0000079	1.0000141	1.0000205	1.0000271	1.0000339
131 35 00	1.0000032	1.0000093	1.0000155	1.0000220	1.0000286
131 37 30	0.9999986	1.0000045	1.0000107	1.0000170	1.0000235
131 40 00	0.9999940	0.9999999	1.0000059	1.0000121	1.0000184
131 42 30	0.9999896	0.9999953	1.0000012	1.0000073	1.0000135
131 45 00	0.9999853	0.9999909	0.9999966	1.0000026	1.0000087
131 47 30	0.9999811	0.9999866	0.9999922	0.9999980	1.0000039
131 50 00	0.9999771	0.9999824	0.9999878	0.9999935	0.9999993
131 52 30	0.9999731	0.9999782	0.9999836	0.9999891	0.9999948
131 55 00	0.9999692	0.9999742	0.9999795	0.9999849	0.9999904
131 57 30	0.9999654	0.9999703	0.9999754	0.9999807	0.9999861
132 00 00	0.9999618	0.9999665	0.9999715	0.9999766	0.9999819
132 02 30	0.9999582	0.9999629	0.9999677	0.9999727	0.9999779
132 05 00	0.9999548	0.9999593	0.9999640	0.9999688	0.9999739
132 07 30	0.9999514	0.9999558	0.9999604	0.9999651	0.9999700
132 10 00	0.9999482	0.9999525	0.9999569	0.9999615	0.9999663
132 12 30	0.9999451	0.9999492	0.9999535	0.9999580	0.9999626
132 15 00	0.9999421	0.9999460	0.9999502	0.9999545	0.9999590
132 17 30	0.9999391	0.9999430	0.9999470	0.9999512	0.9999556
132 20 00	0.9999363	0.9999400	0.9999439	0.9999480	0.9999523
132 22 30	0.9999336	0.9999372	0.9999410	0.9999449	0.9999490
132 25 00	0.9999310	0.9999345	0.9999381	0.9999419	0.9999459
132 27 30	0.9999286	0.9999319	0.9999353	0.9999390	0.9999429
132 30 00	0.9999262	0.9999293	0.9999327	0.9999362	0.9999399
132 32 30	0.9999239	0.9999269	0.9999301	0.9999335	0.9999371
132 35 00	0.9999217	0.9999246	0.9999277	0.9999310	0.9999344
132 37 30	0.9999196	0.9999224	0.9999254	0.9999285	0.9999318
132 40 00	0.9999177	0.9999203	0.9999231	0.9999261	0.9999293
132 42 30	0.9999158	0.9999183	0.9999210	0.9999238	0.9999269
132 45 00	0.9999140	0.9999164	0.9999190	0.9999217	0.9999246
132 47 30	0.9999124	0.9999146	0.9999170	0.9999196	0.9999224
132 50 00	0.9999108	0.9999129	0.9999152	0.9999177	0.9999203
132 52 30	0.9999094	0.9999114	0.9999135	0.9999158	0.9999183
132 55 00	0.9999081	0.9999099	0.9999119	0.9999141	0.9999164
132 57 30	0.9999068	0.9999085	0.9999104	0.9999124	0.9999147
133 00 00	0.9999057	0.9999072	0.9999090	0.9999109	0.9999130
133 02 30	0.9999047	0.9999061	0.9999077	0.9999094	0.9999114
133 05 00	0.9999037	0.9999050	0.9999065	0.9999081	0.9999099
133 07 30	0.9999029	0.9999040	0.9999054	0.9999069	0.9999086
133 10 00	0.9999022	0.9999032	0.9999044	0.9999057	0.9999073
133 12 30	0.9999016	0.9999024	0.9999035	0.9999047	0.9999061
133 15 00	0.9999011	0.9999018	0.9999027	0.9999038	0.9999051
133 17 30	0.9999006	0.9999012	0.9999020	0.9999030	0.9999041
133 20 00	0.9999003	0.9999008	0.9999014	0.9999022	0.9999032
133 22 30	0.9999001	0.9999004	0.9999009	0.9999016	0.9999025
133 25 00	0.9999000	0.9999002	0.9999005	0.9999011	0.9999018
133 27 30	0.9999000	0.9999000	0.9999003	0.9999007	0.9999013
133 30 00	0.9999001	0.9999000	0.9999001	0.9999004	0.9999008

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	56 50 00	56 52 30	56 55 00	56 57 30	57 00 00
133 30 00	0 08 22.9	0 08 22.9	0 08 22.9	0 08 23.0	0 08 23.1
133 32 30	0 06 17.3	0 06 17.2	0 06 17.2	0 06 17.2	0 06 17.3
133 35 00	0 04 11.7	0 04 11.6	0 04 11.5	0 04 11.5	0 04 11.6
133 37 30	0 02 06.1	0 02 05.9	0 02 05.8	0 02 05.8	0 02 05.8
133 40 00	0 00 00.4	0 00 00.2	0 00 00.1	0 00 00.0	0 00 00.0
133 42 30	- 0 02 05.2	- 0 02 05.5	- 0 02 05.6	- 0 02 05.7	- 0 02 05.8
133 45 00	- 0 04 10.9	- 0 04 11.2	- 0 04 11.4	- 0 04 11.5	- 0 04 11.6
133 47 30	- 0 06 16.6	- 0 06 16.9	- 0 06 17.1	- 0 06 17.3	- 0 06 17.5
133 50 00	- 0 08 22.3	- 0 08 22.6	- 0 08 22.9	- 0 08 23.1	- 0 08 23.3
133 52 30	- 0 10 28.0	- 0 10 28.4	- 0 10 28.7	- 0 10 29.0	- 0 10 29.2
133 55 00	- 0 12 33.8	- 0 12 34.2	- 0 12 34.5	- 0 12 34.8	- 0 12 35.1
133 57 30	- 0 14 39.5	- 0 14 40.0	- 0 14 40.4	- 0 14 40.7	- 0 14 41.0
134 00 00	- 0 16 45.3	- 0 16 45.8	- 0 16 46.2	- 0 16 46.6	- 0 16 46.9
134 02 30	- 0 18 51.1	- 0 18 51.6	- 0 18 52.1	- 0 18 52.5	- 0 18 52.8
134 05 00	- 0 20 56.9	- 0 20 57.4	- 0 20 57.9	- 0 20 58.4	- 0 20 58.8
134 07 30	- 0 23 02.7	- 0 23 03.3	- 0 23 03.8	- 0 23 04.3	- 0 23 04.8
134 10 00	- 0 25 08.5	- 0 25 09.1	- 0 25 09.7	- 0 25 10.3	- 0 25 10.7
134 12 30	- 0 27 14.4	- 0 27 15.0	- 0 27 15.6	- 0 27 16.2	- 0 27 16.7
134 15 00	- 0 29 20.2	- 0 29 20.9	- 0 29 21.6	- 0 29 22.2	- 0 29 22.7
134 17 30	- 0 31 26.1	- 0 31 26.8	- 0 31 27.5	- 0 31 28.2	- 0 31 28.8
134 20 00	- 0 33 32.0	- 0 33 32.8	- 0 33 33.5	- 0 33 34.2	- 0 33 34.8
134 22 30	- 0 35 37.9	- 0 35 38.7	- 0 35 39.5	- 0 35 40.2	- 0 35 40.9
134 25 00	- 0 37 43.8	- 0 37 44.7	- 0 37 45.5	- 0 37 46.2	- 0 37 46.9
134 27 30	- 0 39 49.8	- 0 39 50.7	- 0 39 51.5	- 0 39 52.3	- 0 39 53.0
134 30 00	- 0 41 55.7	- 0 41 56.7	- 0 41 57.5	- 0 41 58.4	- 0 41 59.1
134 32 30	- 0 44 01.7	- 0 44 02.7	- 0 44 03.6	- 0 44 04.5	- 0 44 05.3
134 35 00	- 0 46 07.7	- 0 46 08.7	- 0 46 09.7	- 0 46 10.6	- 0 46 11.4
134 37 30	- 0 48 13.7	- 0 48 14.7	- 0 48 15.7	- 0 48 16.7	- 0 48 17.6
134 40 00	- 0 50 19.7	- 0 50 20.8	- 0 50 21.8	- 0 50 22.8	- 0 50 23.7
134 42 30	- 0 52 25.8	- 0 52 26.9	- 0 52 28.0	- 0 52 29.0	- 0 52 29.9
134 45 00	- 0 54 31.8	- 0 54 33.0	- 0 54 34.1	- 0 54 35.1	- 0 54 36.1
134 47 30	- 0 56 37.9	- 0 56 39.1	- 0 56 40.2	- 0 56 41.3	- 0 56 42.3
134 50 00	- 0 58 44.0	- 0 58 45.2	- 0 58 46.4	- 0 58 47.5	- 0 58 48.6
134 52 30	- 1 00 50.1	- 1 00 51.4	- 1 00 52.6	- 1 00 53.7	- 1 00 54.8
134 55 00	- 1 02 56.2	- 1 02 57.5	- 1 02 58.8	- 1 02 60.0	- 1 03 01.1
134 57 30	- 1 05 02.3	- 1 05 03.7	- 1 05 05.0	- 1 05 06.2	- 1 05 07.4
135 00 00	- 1 07 08.5	- 1 07 09.9	- 1 07 11.2	- 1 07 12.5	- 1 07 13.7
135 02 30	- 1 09 14.7	- 1 09 16.1	- 1 09 17.4	- 1 09 18.7	- 1 09 20.0
135 05 00	- 1 11 20.9	- 1 11 22.3	- 1 11 23.7	- 1 11 25.0	- 1 11 26.3
135 07 30	- 1 13 27.1	- 1 13 28.5	- 1 13 30.0	- 1 13 31.4	- 1 13 32.7
135 10 00	- 1 15 33.3	- 1 15 34.8	- 1 15 36.3	- 1 15 37.7	- 1 15 39.0
135 12 30	- 1 17 39.5	- 1 17 41.1	- 1 17 42.6	- 1 17 44.0	- 1 17 45.4
135 15 00	- 1 19 45.8	- 1 19 47.4	- 1 19 48.9	- 1 19 50.4	- 1 19 51.8
135 17 30	- 1 21 52.0	- 1 21 53.7	- 1 21 55.2	- 1 21 56.8	- 1 21 58.2
135 20 00	- 1 23 58.3	- 1 23 60.0	- 1 24 01.6	- 1 24 03.2	- 1 24 04.7
135 22 30	- 1 26 04.6	- 1 26 06.3	- 1 26 08.0	- 1 26 09.6	- 1 26 11.1
135 25 00	- 1 28 10.9	- 1 28 12.7	- 1 28 14.4	- 1 28 16.0	- 1 28 17.6
135 27 30	- 1 30 17.3	- 1 30 19.1	- 1 30 20.8	- 1 30 22.4	- 1 30 24.0
135 30 00	- 1 32 23.6	- 1 32 25.4	- 1 32 27.2	- 1 32 28.9	- 1 32 30.5
135 32 30	- 1 34 30.0	- 1 34 31.8	- 1 34 33.6	- 1 34 35.4	- 1 34 37.1
135 35 00	- 1 36 36.4	- 1 36 38.3	- 1 36 40.1	- 1 36 41.9	- 1 36 43.6
135 37 30	- 1 38 42.8	- 1 38 44.7	- 1 38 46.6	- 1 38 48.4	- 1 38 50.1
135 40 00	- 1 40 49.2	- 1 40 51.2	- 1 40 53.1	- 1 40 54.9	- 1 40 56.7
135 42 30	- 1 42 55.6	- 1 42 57.6	- 1 42 59.6	- 1 43 01.4	- 1 43 03.3
135 45 00	- 1 45 02.1	- 1 45 04.1	- 1 45 06.1	- 1 45 08.0	- 1 45 09.9
135 47 30	- 1 47 08.6	- 1 47 10.6	- 1 47 12.6	- 1 47 14.6	- 1 47 16.5
135 50 00	- 1 49 15.0	- 1 49 17.1	- 1 49 19.2	- 1 49 21.2	- 1 49 23.1
135 52 30	- 1 51 21.5	- 1 51 23.7	- 1 51 25.7	- 1 51 27.8	- 1 51 29.7
135 55 00	- 1 53 28.1	- 1 53 30.2	- 1 53 32.3	- 1 53 34.4	- 1 53 36.4
135 57 30	- 1 55 34.6	- 1 55 36.8	- 1 55 38.9	- 1 55 41.0	- 1 55 43.1
136 00 00	- 1 57 41.1	- 1 57 43.4	- 1 57 45.6	- 1 57 47.7	- 1 57 49.8

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\,[-.6(x_2-x_1)+.8(y_2-y_1)][.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	56 50 00	56 52 30	56 55 00	56 57 30	57 00 00
133 30 00	0.9999001	0.9999000	0.9999001	0.9999004	0.9999008
133 32 30	0.9999003	0.9999001	0.9999000	0.9999001	0.9999005
133 35 00	0.9999006	0.9999002	0.9999000	0.9999000	0.9999002
133 37 30	0.9999010	0.9999005	0.9999002	0.9999000	0.9999001
133 40 00	0.9999015	0.9999009	0.9999004	0.9999001	0.9999000
133 42 30	0.9999021	0.9999013	0.9999007	0.9999003	0.9999001
133 45 00	0.9999028	0.9999019	0.9999011	0.9999006	0.9999002
133 47 30	0.9999036	0.9999026	0.9999017	0.9999010	0.9999005
133 50 00	0.9999046	0.9999033	0.9999023	0.9999015	0.9999008
133 52 30	0.9999056	0.9999042	0.9999030	0.9999020	0.9999013
133 55 00	0.9999067	0.9999052	0.9999039	0.9999027	0.9999018
133 57 30	0.9999079	0.9999062	0.9999048	0.9999035	0.9999025
134 00 00	0.9999092	0.9999074	0.9999058	0.9999044	0.9999032
134 02 30	0.9999106	0.9999087	0.9999069	0.9999054	0.9999041
134 05 00	0.9999121	0.9999101	0.9999082	0.9999065	0.9999050
134 07 30	0.9999137	0.9999115	0.9999095	0.9999077	0.9999061
134 10 00	0.9999154	0.9999131	0.9999109	0.9999090	0.9999072
134 12 30	0.9999172	0.9999148	0.9999125	0.9999104	0.9999085
134 15 00	0.9999192	0.9999165	0.9999141	0.9999118	0.9999098
134 17 30	0.9999212	0.9999184	0.9999158	0.9999134	0.9999112
134 20 00	0.9999233	0.9999204	0.9999176	0.9999151	0.9999128
134 22 30	0.9999255	0.9999224	0.9999196	0.9999169	0.9999144
134 25 00	0.9999278	0.9999246	0.9999216	0.9999188	0.9999162
134 27 30	0.9999302	0.9999269	0.9999237	0.9999208	0.9999180
134 30 00	0.9999327	0.9999292	0.9999259	0.9999228	0.9999199
134 32 30	0.9999353	0.9999317	0.9999282	0.9999250	0.9999220
134 35 00	0.9999380	0.9999342	0.9999307	0.9999273	0.9999241
134 37 30	0.9999408	0.9999369	0.9999332	0.9999296	0.9999263
134 40 00	0.9999437	0.9999396	0.9999358	0.9999321	0.9999287
134 42 30	0.9999467	0.9999425	0.9999385	0.9999347	0.9999311
134 45 00	0.9999498	0.9999454	0.9999413	0.9999373	0.9999336
134 47 30	0.9999530	0.9999485	0.9999442	0.9999401	0.9999362
134 50 00	0.9999563	0.9999516	0.9999472	0.9999430	0.9999389
134 52 30	0.9999596	0.9999549	0.9999503	0.9999459	0.9999417
134 55 00	0.9999631	0.9999582	0.9999535	0.9999490	0.9999446
134 57 30	0.9999667	0.9999616	0.9999568	0.9999521	0.9999476
135 00 00	0.9999704	0.9999652	0.9999602	0.9999554	0.9999507
135 02 30	0.9999741	0.9999688	0.9999636	0.9999587	0.9999539
135 05 00	0.9999780	0.9999725	0.9999672	0.9999621	0.9999572
135 07 30	0.9999820	0.9999763	0.9999709	0.9999657	0.9999606
135 10 00	0.9999860	0.9999803	0.9999747	0.9999693	0.9999641
135 12 30	0.9999902	0.9999843	0.9999785	0.9999730	0.9999677
135 15 00	0.9999944	0.9999884	0.9999825	0.9999768	0.9999714
135 17 30	0.9999988	0.9999926	0.9999866	0.9999807	0.9999751
135 20 00	1.0000032	0.9999969	0.9999907	0.9999848	0.9999790
135 22 30	1.0000078	1.0000013	0.9999950	0.9999889	0.9999830
135 25 00	1.0000124	1.0000058	0.9999993	0.9999931	0.9999870
135 27 30	1.0000172	1.0000103	1.0000038	0.9999974	0.9999912
135 30 00	1.0000220	1.0000150	1.0000083	1.0000017	0.9999954
135 32 30	1.0000269	1.0000198	1.0000129	1.0000062	0.9999997
135 35 00	1.0000319	1.0000247	1.0000176	1.0000108	1.0000042
135 37 30	1.0000370	1.0000296	1.0000225	1.0000155	1.0000087
135 40 00	1.0000422	1.0000347	1.0000274	1.0000202	1.0000133
135 42 30	1.0000475	1.0000399	1.0000324	1.0000251	1.0000180
135 45 00	1.0000529	1.0000451	1.0000375	1.0000301	1.0000229
135 47 30	1.0000584	1.0000504	1.0000427	1.0000351	1.0000278
135 50 00	1.0000640	1.0000559	1.0000480	1.0000403	1.0000328
135 52 30	1.0000697	1.0000614	1.0000534	1.0000455	1.0000378
135 55 00	1.0000755	1.0000670	1.0000588	1.0000508	1.0000430
135 57 30	1.0000813	1.0000728	1.0000644	1.0000562	1.0000483
136 00 00	1.0000873	1.0000786	1.0000701	1.0000618	1.0000537

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	57 00 00	57 02 30	57 05 00	57 07 30	57 10 00
131 30 00	1 48 41.0	1 48 43.1	1 48 45.2	1 48 47.4	1 48 49.6
131 32 30	1 46 36.0	1 46 38.0	1 46 40.1	1 46 42.3	1 46 44.4
131 35 00	1 44 31.0	1 44 33.0	1 44 35.0	1 44 37.1	1 44 39.2
131 37 30	1 42 25.9	1 42 27.9	1 42 29.9	1 42 31.9	1 42 34.0
131 40 00	1 40 20.8	1 40 22.8	1 40 24.7	1 40 26.7	1 40 28.8
131 42 30	1 38 15.8	1 38 17.6	1 38 19.6	1 38 21.5	1 38 23.5
131 45 00	1 36 10.7	1 36 12.5	1 36 14.4	1 36 16.3	1 36 18.3
131 47 30	1 34 05.6	1 34 07.3	1 34 09.2	1 34 11.1	1 34 13.0
131 50 00	1 32 00.4	1 32 02.2	1 32 04.0	1 32 05.8	1 32 07.7
131 52 30	1 29 55.3	1 29 57.0	1 29 58.8	1 30 00.6	1 30 02.4
131 55 00	1 27 50.1	1 27 51.8	1 27 53.5	1 27 55.3	1 27 57.1
131 57 30	1 25 45.0	1 25 46.6	1 25 48.3	1 25 50.0	1 25 51.8
132 00 00	1 23 39.8	1 23 41.4	1 23 43.0	1 23 44.7	1 23 46.4
132 02 30	1 21 34.6	1 21 36.1	1 21 37.7	1 21 39.4	1 21 41.1
132 05 00	1 19 29.4	1 19 30.9	1 19 32.4	1 19 34.0	1 19 35.7
132 07 30	1 17 24.1	1 17 25.6	1 17 27.1	1 17 28.7	1 17 30.3
132 10 00	1 15 18.9	1 15 20.3	1 15 21.8	1 15 23.3	1 15 24.9
132 12 30	1 13 13.6	1 13 15.0	1 13 16.4	1 13 17.9	1 13 19.5
132 15 00	1 11 08.3	1 11 09.7	1 11 11.1	1 11 12.5	1 11 14.0
132 17 30	1 09 03.1	1 09 04.4	1 09 05.7	1 09 07.1	1 09 08.6
132 20 00	1 06 57.8	1 06 59.0	1 07 00.3	1 07 01.7	1 07 03.1
132 22 30	1 04 52.4	1 04 53.7	1 04 54.9	1 04 56.3	1 04 57.7
132 25 00	1 02 47.1	1 02 48.3	1 02 49.5	1 02 50.8	1 02 52.2
132 27 30	1 00 41.7	1 00 42.9	1 00 44.1	1 00 45.4	1 00 46.7
132 30 00	0 58 36.4	0 58 37.5	0 58 38.7	0 58 39.9	0 58 41.1
132 32 30	0 56 31.0	0 56 32.1	0 56 33.2	0 56 34.4	0 56 35.6
132 35 00	0 54 25.6	0 54 26.6	0 54 27.7	0 54 28.9	0 54 30.0
132 37 30	0 52 20.2	0 52 21.2	0 52 22.2	0 52 23.3	0 52 24.5
132 40 00	0 50 14.8	0 50 15.7	0 50 16.7	0 50 17.8	0 50 18.9
132 42 30	0 48 09.3	0 48 10.2	0 48 11.2	0 48 12.2	0 48 13.3
132 45 00	0 46 03.9	0 46 04.8	0 46 05.7	0 46 06.7	0 46 07.7
132 47 30	0 43 58.4	0 43 59.2	0 44 00.1	0 44 01.1	0 44 02.1
132 50 00	0 41 52.9	0 41 53.7	0 41 54.6	0 41 55.5	0 41 56.4
132 52 30	0 39 47.4	0 39 48.2	0 39 49.0	0 39 49.9	0 39 50.8
132 55 00	0 37 41.9	0 37 42.6	0 37 43.4	0 37 44.2	0 37 45.1
132 57 30	0 35 36.4	0 35 37.1	0 35 37.8	0 35 38.6	0 35 39.4
133 00 00	0 33 30.8	0 33 31.5	0 33 32.2	0 33 32.9	0 33 33.7
133 02 30	0 31 25.3	0 31 25.9	0 31 26.5	0 31 27.2	0 31 28.0
133 05 00	0 29 19.7	0 29 20.3	0 29 20.9	0 29 21.5	0 29 22.3
133 07 30	0 27 14.1	0 27 14.6	0 27 15.2	0 27 15.8	0 27 16.5
133 10 00	0 25 08.5	0 25 09.0	0 25 09.5	0 25 10.1	0 25 10.7
133 12 30	0 23 02.9	0 23 03.3	0 23 03.8	0 23 04.4	0 23 05.0
133 15 00	0 20 57.2	0 20 57.6	0 20 58.1	0 20 58.6	0 20 59.2
133 17 30	0 18 51.6	0 18 51.9	0 18 52.4	0 18 52.8	0 18 53.4
133 20 00	0 16 45.9	0 16 46.2	0 16 46.6	0 16 47.1	0 16 47.5
133 22 30	0 14 40.2	0 14 40.5	0 14 40.9	0 14 41.3	0 14 41.7
133 25 00	0 12 34.5	0 12 34.8	0 12 35.1	0 12 35.4	0 12 35.9
133 27 30	0 10 28.8	0 10 29.0	0 10 29.3	0 10 29.6	0 10 30.0
133 30 00	0 08 23.1	0 08 23.3	0 08 23.5	0 08 23.8	0 08 24.1
133 32 30	0 06 17.3	0 06 17.5	0 06 17.7	0 06 17.9	0 06 18.2
133 35 00	0 04 11.6	0 04 11.7	0 04 11.8	0 04 12.0	0 04 12.3
133 37 30	0 02 05.8	0 02 05.9	0 02 06.0	0 02 06.1	0 02 06.4
133 40 00	0 00 00.0	0 00 00.0	0 00 00.1	0 00 00.2	0 00 00.4
133 42 30	- 0 02 05.8	- 0 02 05.8	- 0 02 05.8	- 0 02 05.7	- 0 02 05.5
133 45 00	- 0 04 11.6	- 0 04 11.7	- 0 04 11.7	- 0 04 11.6	- 0 04 11.5
133 47 30	- 0 06 17.5	- 0 06 17.6	- 0 06 17.6	- 0 06 17.6	- 0 06 17.5
133 50 00	- 0 08 23.3	- 0 08 23.5	- 0 08 23.5	- 0 08 23.5	- 0 08 23.5
133 52 30	- 0 10 29.2	- 0 10 29.4	- 0 10 29.5	- 0 10 29.5	- 0 10 29.5
133 55 00	- 0 12 35.1	- 0 12 35.3	- 0 12 35.4	- 0 12 35.5	- 0 12 35.6
133 57 30	- 0 14 41.0	- 0 14 41.2	- 0 14 41.4	- 0 14 41.5	- 0 14 41.6
134 00 00	- 0 16 46.9	- 0 16 47.2	- 0 16 47.4	- 0 16 47.6	- 0 16 47.7

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	57 00 00	57 02 30	57 05 00	57 07 30	57 10 00
131 30 00	1.0000392	1.0000463	1.0000535	1.0000609	1.0000685
131 32 30	1.0000339	1.0000408	1.0000479	1.0000551	1.0000626
131 35 00	1.0000286	1.0000354	1.0000424	1.0000495	1.0000568
131 37 30	1.0000235	1.0000301	1.0000370	1.0000440	1.0000512
131 40 00	1.0000184	1.0000249	1.0000317	1.0000385	1.0000456
131 42 30	1.0000135	1.0000199	1.0000265	1.0000332	1.0000401
131 45 00	1.0000087	1.0000149	1.0000214	1.0000280	1.0000348
131 47 30	1.0000039	1.0000101	1.0000164	1.0000229	1.0000296
131 50 00	0.9999993	1.0000053	1.0000115	1.0000179	1.0000244
131 52 30	0.99999 48	1.0000007	1.0000068	1.0000130	1.0000194
131 55 00	0.99999 04	0.9999962	1.0000021	1.0000082	1.0000145
131 57 30	0.9999861	0.9999917	0.9999975	1.0000035	1.0000097
132 00 00	0.99998 19	0.9999874	0.9999931	0.9999989	1.0000050
132 02 30	0.9999779	0.99998 32	0.99998 88	0.9999945	1.0000004
132 05 00	0.9999739	0.9999791	0.99998 45	0.9999901	0.9999959
132 07 30	0.9999700	0.9999751	0.9999804	0.9999858	0.9999915
132 10 00	0.9999663	0.9999712	0.9999764	0.9999817	0.9999872
132 12 30	0.9999626	0.9999674	0.9999724	0.9999776	0.9999830
132 15 00	0.9999590	0.9999637	0.9999686	0.9999737	0.9999789
132 17 30	0.9999556	0.9999602	0.9999649	0.9999698	0.9999749
132 20 00	0.9999523	0.9999567	0.9999613	0.9999661	0.9999711
132 22 30	0.9999490	0.9999533	0.9999578	0.9999625	0.9999673
132 25 00	0.9999459	0.9999501	0.9999544	0.99995 89	0.9999636
132 27 30	0.9999429	0.9999469	0.9999511	0.9999555	0.9999601
132 30 00	0.9999399	0.9999438	0.9999479	0.9999522	0.9999566
132 32 30	0.9999371	0.9999409	0.9999448	0.9999490	0.9999533
132 35 00	0.9999344	0.9999380	0.9999418	0.9999458	0.9999500
132 37 30	0.9999318	0.9999353	0.9999390	0.9999428	0.9999469
132 40 00	0.9999293	0.9999327	0.9999362	0.9999399	0.9999438
132 42 30	0.9999269	0.9999301	0.9999335	0.9999371	0.9999409
132 45 00	0.9999246	0.9999277	0.9999310	0.9999344	0.9999381
132 47 30	0.9999224	0.9999254	0.9999285	0.9999318	0.9999353
132 50 00	0.9999203	0.9999231	0.9999261	0.9999293	0.9999327
132 52 30	0.9999183	0.9999210	0.9999239	0.9999269	0.9999302
132 55 00	0.9999164	0.9999190	0.9999217	0.9999246	0.9999278
132 57 30	0.9999147	0.9999171	0.9999197	0.9999225	0.9999254
133 00 00	0.9999130	0.9999153	0.9999177	0.9999204	0.9999232
133 02 30	0.9999114	0.9999135	0.9999159	0.9999184	0.9999211
133 05 00	0.9999099	0.9999119	0.9999141	0.9999165	0.9999191
133 07 30	0.9999086	0.9999104	0.9999125	0.9999147	0.9999172
133 10 00	0.9999073	0.9999090	0.9999110	0.9999131	0.9999154
133 12 30	0.9999061	0.9999077	0.9999095	0.9999115	0.9999137
133 15 00	0.9999051	0.9999065	0.9999082	0.9999100	0.9999120
133 17 30	0.9999041	0.9999054	0.9999069	0.9999087	0.9999105
133 20 00	0.9999032	0.9999044	0.9999058	0.9999074	0.9999091
133 22 30	0.9999025	0.9999035	0.9999048	0.9999062	0.9999078
133 25 00	0.9999018	0.9999027	0.9999038	0.9999051	0.9999066
133 27 30	0.9999013	0.9999020	0.9999030	0.9999042	0.9999055
133 30 00	0.9999008	0.9999015	0.9999023	0.9999033	0.9999045
133 32 30	0.9999005	0.9999010	0.9999017	0.9999025	0.9999036
133 35 00	0.9999002	0.9999006	0.9999011	0.9999019	0.9999028
133 37 30	0.9999001	0.9999003	0.9999007	0.9999013	0.9999021
133 40 00	0.9999000	0.9999001	0.9999004	0.9999009	0.9999015
133 42 30	0.9999001	0.9999000	0.9999002	0.9999005	0.9999010
133 45 00	0.9999002	0.9999000	0.9999000	0.9999002	0.9999006
133 47 30	0.9999005	0.9999001	0.9999000	0.9999001	0.9999003
133 50 00	0.9999008	0.9999003	0.9999001	0.9999000	0.9999001
133 52 30	0.9999013	0.9999007	0.9999003	0.9999000	0.9999000
133 55 00	0.9999018	0.9999011	0.9999005	0.9999002	0.9999000
133 57 30	0.9999025	0.9999016	0.9999009	0.9999004	0.9999001
134 00 00	0.9999032	0.9999022	0.9999014	0.9999007	0.9999003

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	57 00 00	57 02 30	57 05 00	57 07 30	57 10 00
134 00 00	- 0 16 46.9	- 0 16 47.2	- 0 16 47.4	- 0 16 47.6	- 0 16 47.7
134 02 30	- 0 18 52.8	- 0 18 53.2	- 0 18 53.4	- 0 18 53.6	- 0 18 53.8
134 05 00	- 0 20 58.8	- 0 20 59.1	- 0 20 59.4	- 0 20 59.7	- 0 20 59.9
134 07 30	- 0 23 04.8	- 0 23 05.1	- 0 23 05.5	- 0 23 05.8	- 0 23 06.0
134 10 00	- 0 25 10.7	- 0 25 11.2	- 0 25 11.5	- 0 25 11.9	- 0 25 12.1
134 12 30	- 0 27 16.7	- 0 27 17.2	- 0 27 17.6	- 0 27 18.0	- 0 27 18.3
134 15 00	- 0 29 22.7	- 0 29 23.2	- 0 29 23.7	- 0 29 24.1	- 0 29 24.4
134 17 30	- 0 31 28.8	- 0 31 29.3	- 0 31 29.8	- 0 31 30.2	- 0 31 30.6
134 20 00	- 0 33 34.8	- 0 33 35.4	- 0 33 35.9	- 0 33 36.4	- 0 33 36.8
134 22 30	- 0 35 40.9	- 0 35 41.5	- 0 35 42.0	- 0 35 42.6	- 0 35 43.0
134 25 00	- 0 37 46.9	- 0 37 47.6	- 0 37 48.2	- 0 37 48.7	- 0 37 49.2
134 27 30	- 0 39 53.0	- 0 39 53.7	- 0 39 54.4	- 0 39 54.9	- 0 39 55.5
134 30 00	- 0 41 59.1	- 0 41 59.9	- 0 42 00.5	- 0 42 01.2	- 0 42 01.7
134 32 30	- 0 44 05.3	- 0 44 06.0	- 0 44 06.7	- 0 44 07.4	- 0 44 08.0
134 35 00	- 0 46 11.4	- 0 46 12.2	- 0 46 13.0	- 0 46 13.6	- 0 46 14.3
134 37 30	- 0 48 17.6	- 0 48 18.4	- 0 48 19.2	- 0 48 19.9	- 0 48 20.6
134 40 00	- 0 50 23.7	- 0 50 24.6	- 0 50 25.4	- 0 50 26.2	- 0 50 26.9
134 42 30	- 0 52 29.9	- 0 52 30.8	- 0 52 31.7	- 0 52 32.5	- 0 52 33.2
134 45 00	- 0 54 36.1	- 0 54 37.1	- 0 54 38.0	- 0 54 38.8	- 0 54 39.6
134 47 30	- 0 56 42.3	- 0 56 43.3	- 0 56 44.3	- 0 56 45.1	- 0 56 46.0
134 50 00	- 0 58 48.6	- 0 58 49.6	- 0 58 50.6	- 0 58 51.5	- 0 58 52.3
134 52 30	- 1 00 54.8	- 1 00 55.9	- 1 00 56.9	- 1 00 57.8	- 1 00 58.7
134 55 00	- 1 03 01.1	- 1 03 02.2	- 1 03 03.2	- 1 03 04.2	- 1 03 05.1
134 57 30	- 1 05 07.4	- 1 05 08.5	- 1 05 09.6	- 1 05 10.6	- 1 05 11.6
135 00 00	- 1 07 13.7	- 1 07 14.8	- 1 07 16.0	- 1 07 17.0	- 1 07 18.0
135 02 30	- 1 09 20.0	- 1 09 21.2	- 1 09 22.3	- 1 09 23.4	- 1 09 24.5
135 05 00	- 1 11 26.3	- 1 11 27.6	- 1 11 28.8	- 1 11 29.9	- 1 11 31.0
135 07 30	- 1 13 32.7	- 1 13 34.0	- 1 13 35.2	- 1 13 36.3	- 1 13 37.5
135 10 00	- 1 15 39.0	- 1 15 40.4	- 1 15 41.6	- 1 15 42.8	- 1 15 44.0
135 12 30	- 1 17 45.4	- 1 17 46.8	- 1 17 48.1	- 1 17 49.3	- 1 17 50.5
135 15 00	- 1 19 51.8	- 1 19 53.2	- 1 19 54.5	- 1 19 55.8	- 1 19 57.0
135 17 30	- 1 21 58.2	- 1 21 59.7	- 1 22 01.0	- 1 22 02.3	- 1 22 03.6
135 20 00	- 1 24 04.7	- 1 24 06.1	- 1 24 07.5	- 1 24 08.9	- 1 24 10.2
135 22 30	- 1 26 11.1	- 1 26 12.6	- 1 26 14.0	- 1 26 15.4	- 1 26 16.7
135 25 00	- 1 28 17.6	- 1 28 19.1	- 1 28 20.6	- 1 28 22.0	- 1 28 23.4
135 27 30	- 1 30 24.0	- 1 30 25.6	- 1 30 27.1	- 1 30 28.6	- 1 30 30.0
135 30 00	- 1 32 30.5	- 1 32 32.1	- 1 32 33.7	- 1 32 35.2	- 1 32 36.6
135 32 30	- 1 34 37.1	- 1 34 38.7	- 1 34 40.3	- 1 34 41.8	- 1 34 43.3
135 35 00	- 1 36 43.6	- 1 36 45.2	- 1 36 46.9	- 1 36 48.4	- 1 36 49.9
135 37 30	- 1 38 50.1	- 1 38 51.8	- 1 38 53.5	- 1 38 55.1	- 1 38 56.6
135 40 00	- 1 40 56.7	- 1 40 58.4	- 1 41 00.1	- 1 41 01.7	- 1 41 03.3
135 42 30	- 1 43 03.3	- 1 43 05.0	- 1 43 06.8	- 1 43 08.4	- 1 43 10.0
135 45 00	- 1 45 09.9	- 1 45 11.7	- 1 45 13.4	- 1 45 15.1	- 1 45 16.8
135 47 30	- 1 47 16.5	- 1 47 18.3	- 1 47 20.1	- 1 47 21.8	- 1 47 23.5
135 50 00	- 1 49 23.1	- 1 49 25.0	- 1 49 26.8	- 1 49 28.6	- 1 49 30.3
135 52 30	- 1 51 29.7	- 1 51 31.6	- 1 51 33.5	- 1 51 35.3	- 1 51 37.1
135 55 00	- 1 53 36.4	- 1 53 38.3	- 1 53 40.2	- 1 53 42.1	- 1 53 43.9
135 57 30	- 1 55 43.1	- 1 55 45.0	- 1 55 47.0	- 1 55 48.9	- 1 55 50.7
136 00 00	- 1 57 49.8	- 1 57 51.8	- 1 57 53.7	- 1 57 55.7	- 1 57 57.5
136 02 30	- 1 59 56.5	- 1 59 58.5	- 2 00 00.5	- 2 00 02.5	- 2 00 04.4
136 05 00	- 2 02 03.2	- 2 02 05.3	- 2 02 07.3	- 2 02 09.3	- 2 02 11.2
136 07 30	- 2 04 09.9	- 2 04 12.1	- 2 04 14.1	- 2 04 16.1	- 2 04 18.1
136 10 00	- 2 06 16.7	- 2 06 18.8	- 2 06 21.0	- 2 06 23.0	- 2 06 25.0
136 12 30	- 2 08 23.5	- 2 08 25.7	- 2 08 27.8	- 2 08 29.9	- 2 08 31.9
136 15 00	- 2 10 30.3	- 2 10 32.5	- 2 10 34.7	- 2 10 36.8	- 2 10 38.8
136 17 30	- 2 12 37.1	- 2 12 39.3	- 2 12 41.5	- 2 12 43.7	- 2 12 45.8
136 20 00	- 2 14 43.9	- 2 14 46.2	- 2 14 48.4	- 2 14 50.6	- 2 14 52.8
136 22 30	- 2 16 50.7	- 2 16 53.1	- 2 16 55.3	- 2 16 57.6	- 2 16 59.7
136 25 00	- 2 18 57.6	- 2 18 59.9	- 2 19 02.3	- 2 19 04.5	- 2 19 06.7
136 27 30	- 2 21 04.5	- 2 21 06.9	- 2 21 09.2	- 2 21 11.5	- 2 21 13.7
136 30 00	- 2 23 11.3	- 2 23 13.8	- 2 23 16.2	- 2 23 18.5	- 2 23 20.8

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	57 00 00	57 02 30	57 05 00	57 07 30	57 10 00
134 00 00	0.9999032	0.9999022	0.9999014	0.9999007	0.9999003
134 02 30	0.9999041	0.9999029	0.9999019	0.9999012	0.9999006
134 05 00	0.9999050	0.9999037	0.9999026	0.9999017	0.9999010
134 07 30	0.9999061	0.9999046	0.9999034	0.9999023	0.9999015
134 10 00	0.9999072	0.9999056	0.9999043	0.9999031	0.9999021
134 12 30	0.9999085	0.9999067	0.9999052	0.9999039	0.9999028
134 15 00	0.9999098	0.9999079	0.9999063	0.9999048	0.9999036
134 17 30	0.9999112	0.9999092	0.9999075	0.9999058	0.9999044
134 20 00	0.9999128	0.9999107	0.9999087	0.9999070	0.9999054
134 22 30	0.9999144	0.9999122	0.9999101	0.9999082	0.9999065
134 25 00	0.9999162	0.9999137	0.9999115	0.9999095	0.9999077
134 27 30	0.9999180	0.9999154	0.9999131	0.9999109	0.9999089
134 30 00	0.9999199	0.9999172	0.9999147	0.9999124	0.9999103
134 32 30	0.9999220	0.9999191	0.9999165	0.9999140	0.9999118
134 35 00	0.9999241	0.9999211	0.9999183	0.9999157	0.9999134
134 37 30	0.9999263	0.9999232	0.9999203	0.9999176	0.9999150
134 40 00	0.9999287	0.9999254	0.9999223	0.9999195	0.9999168
134 42 30	0.9999311	0.9999277	0.9999245	0.9999215	0.9999186
134 45 00	0.9999336	0.9999300	0.9999267	0.9999235	0.9999206
134 47 30	0.9999362	0.9999325	0.9999290	0.9999257	0.9999226
134 50 00	0.9999389	0.9999351	0.9999315	0.9999280	0.9999248
134 52 30	0.9999417	0.9999378	0.9999340	0.9999304	0.9999270
134 55 00	0.9999446	0.9999405	0.9999366	0.9999329	0.9999294
134 57 30	0.9999476	0.9999434	0.9999393	0.9999355	0.9999318
135 00 00	0.9999507	0.9999463	0.9999421	0.9999381	0.9999343
135 02 30	0.9999539	0.9999494	0.9999451	0.9999409	0.9999370
135 05 00	0.9999572	0.9999525	0.9999481	0.9999438	0.9999397
135 07 30	0.9999606	0.9999558	0.9999512	0.9999467	0.9999425
135 10 00	0.9999641	0.9999591	0.9999544	0.9999498	0.9999454
135 12 30	0.9999677	0.9999626	0.9999576	0.9999529	0.9999484
135 15 00	0.9999714	0.9999661	0.9999610	0.9999562	0.9999515
135 17 30	0.9999751	0.9999697	0.9999645	0.9999595	0.9999547
135 20 00	0.9999790	0.9999734	0.9999681	0.9999629	0.9999580
135 22 30	0.9999830	0.9999773	0.9999718	0.9999665	0.9999614
135 25 00	0.9999870	0.9999812	0.9999755	0.9999701	0.9999649
135 27 30	0.9999912	0.9999852	0.9999794	0.9999738	0.9999684
135 30 00	0.9999954	0.9999893	0.9999833	0.9999776	0.9999721
135 32 30	0.9999997	0.9999935	0.9999874	0.9999815	0.9999759
135 35 00	1.0000042	0.9999978	0.9999915	0.9999855	0.9999797
135 37 30	1.0000087	1.0000021	0.9999958	0.9999896	0.9999837
135 40 00	1.0000133	1.0000066	1.0000001	0.9999938	0.9999877
135 42 30	1.0000180	1.0000112	1.0000045	0.9999981	0.9999918
135 45 00	1.0000229	1.0000158	1.0000090	1.0000025	0.9999961
135 47 30	1.0000278	1.0000206	1.0000137	1.0000069	1.0000004
135 50 00	1.0000328	1.0000255	1.0000184	1.0000115	1.0000048
135 52 30	1.0000378	1.0000304	1.0000232	1.0000161	1.0000093
135 55 00	1.0000430	1.0000354	1.0000281	1.0000209	1.0000139
135 57 30	1.0000483	1.0000406	1.0000330	1.0000257	1.0000186
136 00 00	1.0000537	1.0000458	1.0000381	1.0000306	1.0000234
136 02 30	1.0000591	1.0000511	1.0000433	1.0000357	1.0000283
136 05 00	1.0000647	1.0000565	1.0000485	1.0000408	1.0000332
136 07 30	1.0000703	1.0000620	1.0000539	1.0000460	1.0000383
136 10 00	1.0000761	1.0000676	1.0000593	1.0000513	1.0000434
136 12 30	1.0000819	1.0000733	1.0000649	1.0000567	1.0000487
136 15 00	1.0000878	1.0000791	1.0000705	1.0000621	1.0000540
136 17 30	1.0000938	1.0000849	1.0000762	1.0000677	1.0000594
136 20 00	1.0000999	1.0000909	1.0000820	1.0000734	1.0000650
136 22 30	1.0001061	1.0000969	1.0000879	1.0000791	1.0000706
136 25 00	1.0001124	1.0001031	1.0000939	1.0000850	1.0000763
136 27 30	1.0001188	1.0001093	1.0001000	1.0000909	1.0000821
136 30 00	1.0001253	1.0001156	1.0001062	1.0000970	1.0000879

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	57 10 00	57 12 30	57 15 00	57 17 30	57 20 00
131 30 00	1 48 49.6	1 48 51.9	1 48 54.2	1 48 56.6	1 48 59.0
131 32 30	1 46 44.4	1 46 46.7	1 46 49.0	1 46 51.3	1 46 53.7
131 35 00	1 44 39.2	1 44 41.4	1 44 43.7	1 44 46.0	1 44 48 3
131 37 30	1 42 34.0	1 42 36.2	1 42 38.4	1 42 40.6	1 42 43.0
131 40 00	1 40 28.8	1 40 30.9	1 40 33.1	1 40 35.3	1 40 37.6
131 42 30	1 38 23.5	1 38 25.6	1 38 27.7	1 38 29.9	1 38 32.2
131 45 00	1 36 18.3	1 36 20.3	1 36 22.4	1 36 24.5	1 36 26.7
131 47 30	1 34 13.0	1 34 15.0	1 34 17.1	1 34 19.2	1 34 21.3
131 50 00	1 32 07.7	1 32 09.7	1 32 11.7	1 32 13.7	1 32 15.9
131 52 30	1 30 02.4	1 30 04.3	1 30 06.3	1 30 08.3	1 30 10.4
131 55 00	1 27 57.1	1 27 59.0	1 28 00.9	1 28 02.9	1 28 04.9
131 57 30	1 25 51.8	1 25 53.6	1 25 55.5	1 25 57.4	1 25 59.4
132 00 00	1 23 46.4	1 23 48.2	1 23 50.1	1 23 52.0	1 23 53.9
132 02 30	1 21 41.1	1 21 42.8	1 21 44.6	1 21 46.5	1 21 48.4
132 05 00	1 19 35.7	1 19 37.4	1 19 39.2	1 19 41.0	1 19 42.9
132 07 30	1 17 30.3	1 17 32.0	1 17 33.7	1 17 35.5	1 17 37.3
132 10 00	1 15 24.9	1 15 26.5	1 15 28.2	1 15 30.0	1 15 31.7
132 12 30	1 13 19.5	1 13 21.1	1 13 22.7	1 13 24.4	1 13 26.2
132 15 00	1 11 14.0	1 11 15.6	1 11 17.2	1 11 18.9	1 11 20.6
132 17 30	1 09 08.6	1 09 10.1	1 09 11.7	1 09 13.3	1 09 15.0
132 20 00	1 07 03.1	1 07 04.6	1 07 06.1	1 07 07.7	1 07 09.4
132 22 30	1 04 57.7	1 04 59.1	1 05 00.6	1 05 02.1	1 05 03.7
132 25 00	1 02 52.2	1 02 53.6	1 02 55.0	1 02 56.5	1 02 58.1
132 27 30	1 00 46.7	1 00 48.0	1 00 49.4	1 00 50.9	1 00 52.4
132 30 00	0 58 41.1	0 58 42.5	0 58 43.8	0 58 45.2	0 58 46.7
132 32 30	0 56 35.6	0 56 36.9	0 56 38.2	0 56 39.6	0 56 41.0
132 35 00	0 54 30.0	0 54 31.3	0 54 32.6	0 54 33.9	0 54 35.3
132 37 30	0 52 24.5	0 52 25.7	0 52 26.9	0 52 28.2	0 52 29.6
132 40 00	0 50 18.9	0 50 20.1	0 50 21.3	0 50 22.5	0 50 23.9
132 42 30	0 48 13.3	0 48 14.4	0 48 15.6	0 48 16.8	0 48 18.1
132 45 00	0 46 07.7	0 46 08.8	0 46 09.9	0 46 11.1	0 46 12.3
132 47 30	0 44 02.1	0 44 03.1	0 44 04.2	0 44 05.3	0 44 06.5
132 50 00	0 41 56.4	0 41 57.4	0 41 58.5	0 41 59.6	0 42 00.8
132 52 30	0 39 50.8	0 39 51.7	0 39 52.7	0 39 53.8	0 39 54.9
132 55 00	0 37 45.1	0 37 46.0	0 37 47.0	0 37 48.0	0 37 49.1
132 57 30	0 35 39.4	0 35 40.3	0 35 41.2	0 35 42.2	0 35 43.3
133 00 00	0 33 33.7	0 33 34.6	0 33 35.5	0 33 36.4	0 33 37.4
133 02 30	0 31 28.0	0 31 28.8	0 31 29.7	0 31 30.6	0 31 31.5
133 05 00	0 29 22.3	0 29 23.0	0 29 23.9	0 29 24.7	0 29 25.7
133 07 30	0 27 16.5	0 27 17.2	0 27 18.0	0 27 18.9	0 27 19.8
133 10 00	0 25 10.7	0 25 11.4	0 25 12.2	0 25 13.0	0 25 13.8
133 12 30	0 23 05.0	0 23 05.6	0 23 06.3	0 23 07.1	0 23 07.9
133 15 00	0 20 59.2	0 20 59.8	0 21 00.5	0 21 01.2	0 21 02.0
133 17 30	0 18 53.4	0 18 54.0	0 18 54.6	0 18 55.3	0 18 56.0
133 20 00	0 16 47.5	0 16 48.1	0 16 48.7	0 16 49.3	0 16 50.0
133 22 30	0 14 41.7	0 14 42.2	0 14 42.8	0 14 43.4	0 14 44.0
133 25 00	0 12 35.9	0 12 36.3	0 12 36.8	0 12 37.4	0 12 38.0
133 27 30	0 10 30.0	0 10 30.4	0 10 30.9	0 10 31.4	0 10 32.0
133 30 00	0 08 24.1	0 08 24.5	0 08 24.9	0 08 25.4	0 08 26.0
133 32 30	0 06 18.2	0 06 18.6	0 06 19.0	0 06 19.4	0 06 19.9
133 35 00	0 04 12.3	0 04 12.6	0 04 13.0	0 04 13.4	0 04 13.9
133 37 30	0 02 06.4	0 02 06.6	0 02 07.0	0 02 07.3	0 02 07.8
133 40 00	0 00 00.4	0 00 00.7	0 00 00.9	0 00 01.3	0 00 01.7
133 42 30	- 0 02 05.5	- 0 02 05.3	- 0 02 05.1	- 0 02 04.8	- 0 02 04.4
133 45 00	- 0 04 11.5	- 0 04 11.4	- 0 04 11.1	- 0 04 10.9	- 0 04 10.6
133 47 30	- 0 06 17.5	- 0 06 17.4	- 0 06 17.2	- 0 06 17.0	- 0 06 16.7
133 50 00	- 0 08 23.5	- 0 08 23.4	- 0 08 23.3	- 0 08 23.1	- 0 08 22.9
133 52 30	- 0 10 29.5	- 0 10 29.5	- 0 10 29.4	- 0 10 29.2	- 0 10 29.0
133 55 00	- 0 12 35.6	- 0 12 35.6	- 0 12 35.5	- 0 12 35.4	- 0 12 35.2
133 57 30	- 0 14 41.6	- 0 14 41.7	- 0 14 41.6	- 0 14 41.6	- 0 14 41.4
134 00 00	- 0 16 47.7	- 0 16 47.8	- 0 16 47.8	- 0 16 47.7	- 0 16 47.6

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	57 10 00	57 12 30	57 15 00	57 17 30	57 20 00
131 30 00	1.0000685	1.0000762	1.0000841	1.0000922	1.0001005
131 32 30	1.0000626	1.0000702	1.0000780	1.0000860	1.0000941
131 35 00	1.0000568	1.0000643	1.0000720	1.0000798	1.0000878
131 37 30	1.0000512	1.0000585	1.0000661	1.0000738	1.0000817
131 40 00	1.0000456	1.0000528	1.0000602	1.0000678	1.0000756
131 42 30	1.0000401	1.0000473	1.0000545	1.0000620	1.0000696
131 45 00	1.0000348	1.0000418	1.0000489	1.0000563	1.0000638
131 47 30	1.0000296	1.0000364	1.0000434	1.0000506	1.0000580
131 50 00	1.0000244	1.0000311	1.0000380	1.0000451	1.0000524
131 52 30	1.0000194	1.0000260	1.0000328	1.0000397	1.0000468
131 55 00	1.0000145	1.0000209	1.0000276	1.0000344	1.0000414
131 57 30	1.0000097	1.0000160	1.0000225	1.0000292	1.0000360
132 00 00	1.0000050	1.0000112	1.0000175	1.0000241	1.0000308
132 02 30	1.0000004	1.0000064	1.0000127	1.0000191	1.0000257
132 05 00	0.9999959	1.0000018	1.0000079	1.0000142	1.0000207
132 07 30	0.9999915	0.9999973	1.0000032	1.0000094	1.0000158
132 10 00	0.9999872	0.9999928	0.9999987	1.0000047	1.0000109
132 12 30	0.9999830	0.9999885	0.9999943	1.0000002	1.0000062
132 15 00	0.9999789	0.9999843	0.9999899	0.9999957	1.0000016
132 17 30	0.9999749	0.9999802	0.9999857	0.9999913	0.9999971
132 20 00	0.9999711	0.9999762	0.9999815	0.9999871	0.9999927
132 22 30	0.9999673	0.9999723	0.9999775	0.9999829	0.9999885
132 25 00	0.9999636	0.9999685	0.9999736	0.9999788	0.9999843
132 27 30	0.9999601	0.9999648	0.9999698	0.9999749	0.9999802
132 30 00	0.9999566	0.9999612	0.9999660	0.9999710	0.9999762
132 32 30	0.9999533	0.9999578	0.9999624	0.9999673	0.9999723
132 35 00	0.9999500	0.9999544	0.9999589	0.9999636	0.9999685
132 37 30	0.9999469	0.9999511	0.9999555	0.9999601	0.9999649
132 40 00	0.9999438	0.9999479	0.9999522	0.9999567	0.9999613
132 42 30	0.9999409	0.9999449	0.9999490	0.9999533	0.9999578
132 45 00	0.9999381	0.9999419	0.9999459	0.9999501	0.9999545
132 47 30	0.9999353	0.9999390	0.9999429	0.9999470	0.9999512
132 50 00	0.9999327	0.9999363	0.9999400	0.9999439	0.9999480
132 52 30	0.9999302	0.9999336	0.9999372	0.9999410	0.9999450
132 55 00	0.9999278	0.9999310	0.9999345	0.9999382	0.9999420
132 57 30	0.9999254	0.9999286	0.9999319	0.9999355	0.9999392
133 00 00	0.9999232	0.9999262	0.9999294	0.9999328	0.9999364
133 02 30	0.9999211	0.9999240	0.9999271	0.9999303	0.9999338
133 05 00	0.9999191	0.9999218	0.9999248	0.9999279	0.9999312
133 07 30	0.9999172	0.9999198	0.9999226	0.9999256	0.9999288
133 10 00	0.9999154	0.9999179	0.9999205	0.9999234	0.9999264
133 12 30	0.9999137	0.9999160	0.9999185	0.9999213	0.9999242
133 15 00	0.9999120	0.9999143	0.9999167	0.9999193	0.9999220
133 17 30	0.9999105	0.9999126	0.9999149	0.9999173	0.9999200
133 20 00	0.9999091	0.9999111	0.9999132	0.9999155	0.9999180
133 22 30	0.9999078	0.9999096	0.9999116	0.9999138	0.9999162
133 25 00	0.9999066	0.9999083	0.9999102	0.9999122	0.9999145
133 27 30	0.9999055	0.9999071	0.9999088	0.9999107	0.9999128
133 30 00	0.9999045	0.9999059	0.9999075	0.9999093	0.9999113
133 32 30	0.9999036	0.9999049	0.9999063	0.9999080	0.9999098
133 35 00	0.9999028	0.9999040	0.9999053	0.9999068	0.9999085
133 37 30	0.9999021	0.9999031	0.9999043	0.9999057	0.9999072
133 40 00	0.9999015	0.9999024	0.9999034	0.9999047	0.9999061
133 42 30	0.9999010	0.9999017	0.9999026	0.9999037	0.9999050
133 45 00	0.9999006	0.9999012	0.9999020	0.9999029	0.9999041
133 47 30	0.9999003	0.9999008	0.9999014	0.9999022	0.9999032
133 50 00	0.9999001	0.9999004	0.9999009	0.9999016	0.9999025
133 52 30	0.9999000	0.9999002	0.9999005	0.9999011	0.9999018
133 55 00	0.9999000	0.9999000	0.9999003	0.9999007	0.9999013
133 57 30	0.9999001	0.9999000	0.9999001	0.9999004	0.9999008
134 00 00	0.9999003	0.9999001	0.9999000	0.9999001	0.9999005

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	57 10 00	57 12 30	57 15 00	57 17 30	57 20 00
134 00 00	- 0 16 47.7	- 0 16 47.8	- 0 16 47.8	- 0 16 47.7	- 0 16 47.6
134 02 30	- 0 18 53.8	- 0 18 53.9	- 0 18 53.9	- 0 18 53.9	- 0 18 53.9
134 05 00	- 0 20 59.9	- 0 21 00.0	- 0 21 00.1	- 0 21 00.1	- 0 21 00.1
134 07 30	- 0 23 06.0	- 0 23 06.2	- 0 23 06.3	- 0 23 06.4	- 0 23 06.4
134 10 00	- 0 25 12.1	- 0 25 12.3	- 0 25 12.5	- 0 25 12.6	- 0 25 12.7
134 12 30	- 0 27 18.3	- 0 27 18.5	- 0 27 18.7	- 0 27 18.9	- 0 27 19.0
134 15 00	- 0 29 24.4	- 0 29 24.7	- 0 29 25.0	- 0 29 25.1	- 0 29 25.3
134 17 30	- 0 31 30.6	- 0 31 30.9	- 0 31 31.2	- 0 31 31.4	- 0 31 31.6
134 20 00	- 0 33 36.8	- 0 33 37.2	- 0 33 37.5	- 0 33 37.7	- 0 33 37.9
134 22 30	- 0 35 43.0	- 0 35 43.4	- 0 35 43.8	- 0 35 44.1	- 0 35 44.3
134 25 00	- 0 37 49.2	- 0 37 49.7	- 0 37 50.1	- 0 37 50.4	- 0 37 50.7
134 27 30	- 0 39 55.5	- 0 39 55.9	- 0 39 56.4	- 0 39 56.7	- 0 39 57.1
134 30 00	- 0 42 01.7	- 0 42 02.2	- 0 42 02.7	- 0 42 03.1	- 0 42 03.5
134 32 30	- 0 44 08.0	- 0 44 08.5	- 0 44 09.0	- 0 44 09.5	- 0 44 09.9
134 35 00	- 0 46 14.3	- 0 46 14.9	- 0 46 15.4	- 0 46 15.9	- 0 46 16.3
134 37 30	- 0 48 20.6	- 0 48 21.2	- 0 48 21.8	- 0 48 22.3	- 0 48 22.8
134 40 00	- 0 50 26.9	- 0 50 27.6	- 0 50 28.2	- 0 50 28.7	- 0 50 29.2
134 42 30	- 0 52 33.2	- 0 52 33.9	- 0 52 34.6	- 0 52 35.2	- 0 52 35.7
134 45 00	- 0 54 39.6	- 0 54 40.3	- 0 54 41.0	- 0 54 41.6	- 0 54 42.2
134 47 30	- 0 56 46.0	- 0 56 46.7	- 0 56 47.4	- 0 56 48.1	- 0 56 48.7
134 50 00	- 0 58 52.3	- 0 58 53.1	- 0 58 53.9	- 0 58 54.6	- 0 58 55.2
134 52 30	- 1 00 58.7	- 1 00 59.6	- 1 01 00.4	- 1 01 01.1	- 1 01 01.8
134 55 00	- 1 03 05.1	- 1 03 06.0	- 1 03 06.9	- 1 03 07.6	- 1 03 08.3
134 57 30	- 1 05 11.6	- 1 05 12.5	- 1 05 13.4	- 1 05 14.2	- 1 05 14.9
135 00 00	- 1 07 18.0	- 1 07 19.0	- 1 07 19.9	- 1 07 20.7	- 1 07 21.5
135 02 30	- 1 09 24.5	- 1 09 25.5	- 1 09 26.4	- 1 09 27.3	- 1 09 28.1
135 05 00	- 1 11 31.0	- 1 11 32.0	- 1 11 33.0	- 1 11 33.9	- 1 11 34.7
135 07 30	- 1 13 37.5	- 1 13 38.5	- 1 13 39.5	- 1 13 40.5	- 1 13 41.4
135 10 00	- 1 15 44.0	- 1 15 45.1	- 1 15 46.1	- 1 15 47.1	- 1 15 48.0
135 12 30	- 1 17 50.5	- 1 17 51.6	- 1 17 52.7	- 1 17 53.7	- 1 17 54.7
135 15 00	- 1 19 57.0	- 1 19 58.2	- 1 19 59.3	- 1 20 00.4	- 1 20 01.4
135 17 30	- 1 22 03.6	- 1 22 04.8	- 1 22 05.9	- 1 22 07.0	- 1 22 08.1
135 20 00	- 1 24 10.2	- 1 24 11.4	- 1 24 12.6	- 1 24 13.7	- 1 24 14.8
135 22 30	- 1 26 16.7	- 1 26 18.0	- 1 26 19.2	- 1 26 20.4	- 1 26 21.5
135 25 00	- 1 28 23.4	- 1 28 24.7	- 1 28 25.9	- 1 28 27.1	- 1 28 28.3
135 27 30	- 1 30 30.0	- 1 30 31.3	- 1 30 32.6	- 1 30 33.9	- 1 30 35.0
135 30 00	- 1 32 36.6	- 1 32 38.0	- 1 32 39.3	- 1 32 40.6	- 1 32 41.8
135 32 30	- 1 34 43.3	- 1 34 44.7	- 1 34 46.0	- 1 34 47.4	- 1 34 48.6
135 35 00	- 1 36 49.9	- 1 36 51.4	- 1 36 52.8	- 1 36 54.1	- 1 36 55.4
135 37 30	- 1 38 56.6	- 1 38 58.1	- 1 38 59.5	- 1 39 00.9	- 1 39 02.3
135 40 00	- 1 41 03.3	- 1 41 04.8	- 1 41 06.3	- 1 41 07.7	- 1 41 09.1
135 42 30	- 1 43 10.0	- 1 43 11.6	- 1 43 13.1	- 1 43 14.6	- 1 43 16.0
135 45 00	- 1 45 16.8	- 1 45 18.4	- 1 45 19.9	- 1 45 21.4	- 1 45 22.8
135 47 30	- 1 47 23.5	- 1 47 25.2	- 1 47 26.7	- 1 47 28.3	- 1 47 29.7
135 50 00	- 1 49 30.3	- 1 49 32.0	- 1 49 33.6	- 1 49 35.1	- 1 49 36.6
135 52 30	- 1 51 37.1	- 1 51 38.8	- 1 51 40.4	- 1 51 42.0	- 1 51 43.6
135 55 00	- 1 53 43.9	- 1 53 45.6	- 1 53 47.3	- 1 53 48.9	- 1 53 50.5
135 57 30	- 1 55 50.7	- 1 55 52.5	- 1 55 54.2	- 1 55 55.8	- 1 55 57.5
136 00 00	- 1 57 57.5	- 1 57 59.3	- 1 58 01.1	- 1 58 02.8	- 1 58 04.4
136 02 30	- 2 00 04.4	- 2 00 06.2	- 2 00 08.0	- 2 00 09.7	- 2 00 11.4
136 05 00	- 2 02 11.2	- 2 02 13.1	- 2 02 14.9	- 2 02 16.7	- 2 02 18.4
136 07 30	- 2 04 18.1	- 2 04 20.0	- 2 04 21.9	- 2 04 23.7	- 2 04 25.4
136 10 00	- 2 06 25.0	- 2 06 27.0	- 2 06 28.8	- 2 06 30.7	- 2 06 32.5
136 12 30	- 2 08 31.9	- 2 08 33.9	- 2 08 35.8	- 2 08 37.7	- 2 08 39.5
136 15 00	- 2 10 38.8	- 2 10 40.9	- 2 10 42.8	- 2 10 44.7	- 2 10 46.6
136 17 30	- 2 12 45.8	- 2 12 47.8	- 2 12 49.8	- 2 12 51.8	- 2 12 53.7
136 20 00	- 2 14 52.8	- 2 14 54.8	- 2 14 56.9	- 2 14 58.9	- 2 15 00.8
136 22 30	- 2 16 59.7	- 2 17 01.9	- 2 17 03.9	- 2 17 05.9	- 2 17 07.9
136 25 00	- 2 19 06.7	- 2 19 08.9	- 2 19 11.0	- 2 19 13.0	- 2 19 15.0
136 27 30	- 2 21 13.7	- 2 21 15.9	- 2 21 18.1	- 2 21 20.1	- 2 21 22.2
136 30 00	- 2 23 20.8	- 2 23 23.0	- 2 23 25.2	- 2 23 27.3	- 2 23 29.3

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	57 10 00	57 12 30	57 15 00	57 17 30	57 20 00
134 00 00	0.9999003	0.9999001	0.9999000	0.9999001	0.9999005
134 02 30	0.9999006	0.9999002	0.9999000	0.9999000	0.9999002
134 05 00	0.9999010	0.9999005	0.9999001	0.9999000	0.9999001
134 07 30	0.9999015	0.9999008	0.9999004	0.9999001	0.9999000
134 10 00	0.9999021	0.9999013	0.9999007	0.9999003	0.9999000
134 12 30	0.9999028	0.9999018	0.9999011	0.9999005	0.9999002
134 15 00	0.9999036	0.9999025	0.9999016	0.9999009	0.9999004
134 17 30	0.9999044	0.9999032	0.9999022	0.9999014	0.9999007
134 20 00	0.9999054	0.9999041	0.9999029	0.9999019	0.9999012
134 22 30	0.9999065	0.9999050	0.9999037	0.9999026	0.9999017
134 25 00	0.9999077	0.9999060	0.9999046	0.9999034	0.9999023
134 27 30	0.9999089	0.9999072	0.9999056	0.9999042	0.9999030
134 30 00	0.9999103	0.9999084	0.9999067	0.9999052	0.9999038
134 32 30	0.9999118	0.9999097	0.9999079	0.9999062	0.9999048
134 35 00	0.9999134	0.9999112	0.9999092	0.9999074	0.9999058
134 37 30	0.9999150	0.9999127	0.9999105	0.9999086	0.9999069
134 40 00	0.9999168	0.9999143	0.9999120	0.9999099	0.9999081
134 42 30	0.9999186	0.9999160	0.9999136	0.9999114	0.9999094
134 45 00	0.9999206	0.9999178	0.9999153	0.9999129	0.9999108
134 47 30	0.9999226	0.9999197	0.9999170	0.9999145	0.9999122
134 50 00	0.9999248	0.9999217	0.9999189	0.9999163	0.9999138
134 52 30	0.9999270	0.9999238	0.9999209	0.9999181	0.9999155
134 55 00	0.9999294	0.9999260	0.9999229	0.9999200	0.9999173
134 57 30	0.9999318	0.9999283	0.9999251	0.9999220	0.9999191
135 00 00	0.9999343	0.9999307	0.9999273	0.9999241	0.9999211
135 02 30	0.9999370	0.9999332	0.9999297	0.9999263	0.9999232
135 05 00	0.9999397	0.9999358	0.9999321	0.9999286	0.9999253
135 07 30	0.9999425	0.9999385	0.9999346	0.9999310	0.9999276
135 10 00	0.9999454	0.9999412	0.9999373	0.9999335	0.9999299
135 12 30	0.9999484	0.9999441	0.9999400	0.9999361	0.9999323
135 15 00	0.9999515	0.9999470	0.9999428	0.9999387	0.9999349
135 17 30	0.9999547	0.9999501	0.9999457	0.9999415	0.9999375
135 20 00	0.9999580	0.9999532	0.9999487	0.9999444	0.9999402
135 22 30	0.9999614	0.9999565	0.9999518	0.9999473	0.9999430
135 25 00	0.9999649	0.9999598	0.9999550	0.9999504	0.9999459
135 27 30	0.9999684	0.9999633	0.9999583	0.9999535	0.9999490
135 30 00	0.9999721	0.9999668	0.9999617	0.9999567	0.9999520
135 32 30	0.9999759	0.9999704	0.9999651	0.9999601	0.9999552
135 35 00	0.9999797	0.9999741	0.9999687	0.9999635	0.9999585
135 37 30	0.9999837	0.9999779	0.9999724	0.9999670	0.9999619
135 40 00	0.9999877	0.9999818	0.9999761	0.9999706	0.9999654
135 42 30	0.9999918	0.9999858	0.9999800	0.9999743	0.9999689
135 45 00	0.9999961	0.9999899	0.9999839	0.9999781	0.9999726
135 47 30	1.0000004	0.9999941	0.9999879	0.9999820	0.9999763
135 50 00	1.0000048	0.9999983	0.9999921	0.9999860	0.9999801
135 52 30	1.0000093	1.0000027	0.9999963	0.9999901	0.9999841
135 55 00	1.0000139	1.0000071	1.0000006	0.9999942	0.9999881
135 57 30	1.0000186	1.0000117	1.0000050	0.9999985	0.9999922
136 00 00	1.0000234	1.0000163	1.0000095	1.0000028	0.9999964
136 02 30	1.0000283	1.0000211	1.0000141	1.0000073	1.0000007
136 05 00	1.0000332	1.0000259	1.0000187	1.0000118	1.0000051
136 07 30	1.0000383	1.0000308	1.0000235	1.0000164	1.0000096
136 10 00	1.0000434	1.0000358	1.0000284	1.0000212	1.0000141
136 12 30	1.0000487	1.0000409	1.0000333	1.0000260	1.0000188
136 15 00	1.0000540	1.0000461	1.0000384	1.0000309	1.0000236
136 17 30	1.0000594	1.0000514	1.0000435	1.0000358	1.0000284
136 20 00	1.0000650	1.0000567	1.0000487	1.0000409	1.0000333
136 22 30	1.0000706	1.0000622	1.0000540	1.0000461	1.0000384
136 25 00	1.0000763	1.0000677	1.0000594	1.0000513	1.0000435
136 27 30	1.0000821	1.0000734	1.0000649	1.0000567	1.0000487
136 30 00	1.0000879	1.0000791	1.0000705	1.0000621	1.0000540

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	57 20 00	57 22 30	57 25 00	57 27 30	57 30 00
132 00 00	1 23 53.9	1 23 55.9	1 23 58.0	1 24 00.1	1 24 02.2
132 02 30	1 21 48.4	1 21 50.4	1 21 52.4	1 21 54.4	1 21 56.5
132 05 00	1 19 42.9	1 19 44.8	1 19 46.8	1 19 48.8	1 19 50.9
132 07 30	1 17 37.3	1 17 39.2	1 17 41.1	1 17 43.1	1 17 45.1
132 10 00	1 15 31.7	1 15 33.6	1 15 35.5	1 15 37.4	1 15 39.4
132 12 30	1 13 26.2	1 13 28.0	1 13 29.8	1 13 31.7	1 13 33.7
132 15 00	1 11 20.6	1 11 22.3	1 11 24.2	1 11 26.0	1 11 27.9
132 17 30	1 09 15.0	1 09 16.7	1 09 18.5	1 09 20.3	1 09 22.2
132 20 00	1 07 09.4	1 07 11.0	1 07 12.8	1 07 14.6	1 07 16.4
132 22 30	1 05 03.7	1 05 05.4	1 05 07.1	1 05 08.8	1 05 10.6
132 25 00	1 02 58.1	1 02 59.7	1 03 01.3	1 03 03.0	1 03 04.8
132 27 30	1 00 52.4	1 00 54.0	1 00 55.6	1 00 57.2	1 00 59.0
132 30 00	0 58 46.7	0 58 48.2	0 58 49.8	0 58 51.4	0 58 53.1
132 32 30	0 56 41.0	0 56 42.5	0 56 44.0	0 56 45.6	0 56 47.3
132 35 00	0 54 35.3	0 54 36.8	0 54 38.3	0 54 39.8	0 54 41.4
132 37 30	0 52 29.6	0 52 31.0	0 52 32.5	0 52 34.0	0 52 35.5
132 40 00	0 50 23.9	0 50 25.2	0 50 26.6	0 50 28.1	0 50 29.6
132 42 30	0 48 18.1	0 48 19.4	0 48 20.8	0 48 22.2	0 48 23.7
132 45 00	0 46 12.3	0 46 13.6	0 46 15.0	0 46 16.4	0 46 17.8
132 47 30	0 44 06.5	0 44 07.8	0 44 09.1	0 44 10.5	0 44 11.9
132 50 00	0 42 00.8	0 42 02.0	0 42 03.2	0 42 04.5	0 42 05.9
132 52 30	0 39 54.9	0 39 56.1	0 39 57.3	0 39 58.6	0 39 59.9
132 55 00	0 37 49.1	0 37 50.2	0 37 51.4	0 37 52.7	0 37 54.0
132 57 30	0 35 43.3	0 35 44.4	0 35 45.5	0 35 46.7	0 35 48.0
133 00 00	0 33 37.4	0 33 38.5	0 33 39.6	0 33 40.7	0 33 42.0
133 02 30	0 31 31.5	0 31 32.6	0 31 33.6	0 31 34.8	0 31 35.9
133 05 00	0 29 25.7	0 29 26.6	0 29 27.7	0 29 28.7	0 29 29.9
133 07 30	0 27 19.8	0 27 20.7	0 27 21.7	0 27 22.7	0 27 23.8
133 10 00	0 25 13.8	0 25 14.7	0 25 15.7	0 25 16.7	0 25 17.8
133 12 30	0 23 07.9	0 23 08.8	0 23 09.7	0 23 10.7	0 23 11.7
133 15 00	0 21 02.0	0 21 02.8	0 21 03.7	0 21 04.6	0 21 05.6
133 17 30	0 18 56.0	0 18 56.8	0 18 57.6	0 18 58.5	0 18 59.5
133 20 00	0 16 50.0	0 16 50.8	0 16 51.6	0 16 52.4	0 16 53.3
133 22 30	0 14 44.0	0 14 44.7	0 14 45.5	0 14 46.3	0 14 47.2
133 25 00	0 12 38.0	0 12 38.7	0 12 39.4	0 12 40.2	0 12 41.0
133 27 30	0 10 32.0	0 10 32.6	0 10 33.3	0 10 34.1	0 10 34.9
133 30 00	0 08 26.0	0 08 26.6	0 08 27.2	0 08 27.9	0 08 28.7
133 32 30	0 06 19.9	0 06 20.5	0 06 21.1	0 06 21.7	0 06 22.5
133 35 00	0 04 13.9	0 04 14.4	0 04 14.9	0 04 15.6	0 04 16.2
133 37 30	0 02 07.8	0 02 08.3	0 02 08.8	0 02 09.4	0 02 10.0
133 40 00	0 00 01.7	0 00 02.1	0 00 02.6	0 00 03.2	0 00 03.8
133 42 30	- 0 02 04.4	- 0 02 04.0	- 0 02 03.6	- 0 02 03.1	- 0 02 02.5
133 45 00	- 0 04 10.6	- 0 04 10.2	- 0 04 09.8	- 0 04 09.3	- 0 04 08.8
133 47 30	- 0 06 16.7	- 0 06 16.4	- 0 06 16.0	- 0 06 15.6	- 0 06 15.1
133 50 00	- 0 08 22.9	- 0 08 22.6	- 0 08 22.2	- 0 08 21.8	- 0 08 21.4
133 52 30	- 0 10 29.0	- 0 10 28.8	- 0 10 28.5	- 0 10 28.1	- 0 10 27.7
133 55 00	- 0 12 35.2	- 0 12 35.0	- 0 12 34.7	- 0 12 34.4	- 0 12 34.0
133 57 30	- 0 14 41.4	- 0 14 41.2	- 0 14 41.0	- 0 14 40.7	- 0 14 40.4
134 00 00	- 0 16 47.6	- 0 16 47.5	- 0 16 47.3	- 0 16 47.1	- 0 16 46.8
134 02 30	- 0 18 53.9	- 0 18 53.8	- 0 18 53.6	- 0 18 53.4	- 0 18 53.1
134 05 00	- 0 21 00.1	- 0 21 00.1	- 0 20 59.9	- 0 20 59.8	- 0 20 59.5
134 07 30	- 0 23 06.4	- 0 23 06.4	- 0 23 06.3	- 0 23 06.1	- 0 23 06.0
134 10 00	- 0 25 12.7	- 0 25 12.7	- 0 25 12.6	- 0 25 12.5	- 0 25 12.4
134 12 30	- 0 27 19.0	- 0 27 19.0	- 0 27 19.0	- 0 27 18.9	- 0 27 18.8
134 15 00	- 0 29 25.3	- 0 29 25.4	- 0 29 25.4	- 0 29 25.4	- 0 29 25.3
134 17 30	- 0 31 31.6	- 0 31 31.7	- 0 31 31.8	- 0 31 31.8	- 0 31 31.8
134 20 00	- 0 33 37.9	- 0 33 38.1	- 0 33 38.2	- 0 33 38.3	- 0 33 38.3
134 22 30	- 0 35 44.3	- 0 35 44.5	- 0 35 44.6	- 0 35 44.7	- 0 35 44.8
134 25 00	- 0 37 50.7	- 0 37 50.9	- 0 37 51.1	- 0 37 51.2	- 0 37 51.3
134 27 30	- 0 39 57.1	- 0 39 57.3	- 0 39 57.5	- 0 39 57.7	- 0 39 57.8
134 30 00	- 0 42 03.5	- 0 42 03.8	- 0 42 04.0	- 0 42 04.2	- 0 42 04.4

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	57 20 00	57 22 30	57 25 00	57 27 30	57 30 00
132 00 00	1.0000308	1.0000377	1.0000448	1.0000521	1.0000595
132 02 30	1.0000257	1.0000325	1.0000394	1.0000466	1.0000539
132 05 00	1.0000207	1.0000273	1.0000341	1.0000412	1.0000483
132 07 30	1.0000158	1.0000223	1.0000290	1.0000359	1.0000429
132 10 00	1.0000109	1.0000173	1.0000239	1.0000307	1.0000376
132 12 30	1.0000062	1.0000125	1.0000189	1.0000256	1.0000324
132 15 00	1.0000016	1.0000078	1.0000141	1.0000206	1.0000272
132 17 30	0.9999971	1.0000031	1.0000093	1.0000157	1.0000222
132 20 00	0.9999927	0.9999986	1.0000047	1.0000109	1.0000173
132 22 30	0.9999885	0.9999942	1.0000001	1.0000062	1.0000125
132 25 00	0.9999843	0.9999899	0.9999957	1.0000016	1.0000078
132 27 30	0.9999802	0.9999857	0.9999913	0.9999972	1.0000032
132 30 00	0.9999762	0.9999815	0.9999871	0.9999928	0.9999987
132 32 30	0.9999723	0.9999775	0.9999829	0.9999885	0.9999943
132 35 00	0.9999685	0.9999736	0.9999789	0.9999843	0.9999900
132 37 30	0.9999649	0.9999698	0.9999750	0.9999803	0.9999858
132 40 00	0.9999613	0.9999661	0.9999711	0.9999763	0.9999817
132 42 30	0.9999578	0.9999625	0.9999674	0.9999725	0.9999777
132 45 00	0.9999545	0.9999590	0.9999638	0.9999687	0.9999738
132 47 30	0.9999512	0.9999556	0.9999602	0.9999650	0.9999700
132 50 00	0.9999480	0.9999523	0.9999568	0.9999615	0.9999663
132 52 30	0.9999450	0.9999492	0.9999535	0.9999580	0.9999627
132 55 00	0.9999420	0.9999461	0.9999503	0.9999547	0.9999593
132 57 30	0.9999392	0.9999431	0.9999472	0.9999514	0.9999559
133 00 00	0.9999364	0.9999402	0.9999441	0.9999483	0.9999526
133 02 30	0.9999338	0.9999374	0.9999412	0.9999452	0.9999494
133 05 00	0.9999312	0.9999347	0.9999384	0.9999423	0.9999463
133 07 30	0.9999288	0.9999321	0.9999357	0.9999394	0.9999433
133 10 00	0.9999264	0.9999297	0.9999331	0.9999367	0.9999405
133 12 30	0.9999242	0.9999273	0.9999306	0.9999340	0.9999377
133 15 00	0.9999220	0.9999250	0.9999281	0.9999315	0.9999350
133 17 30	0.9999200	0.9999228	0.9999258	0.9999290	0.9999324
133 20 00	0.9999180	0.9999207	0.9999236	0.9999267	0.9999299
133 22 30	0.9999162	0.9999188	0.9999215	0.9999244	0.9999276
133 25 00	0.9999145	0.9999169	0.9999195	0.9999223	0.9999253
133 27 30	0.9999128	0.9999151	0.9999176	0.9999202	0.9999231
133 30 00	0.9999113	0.9999134	0.9999158	0.9999183	0.9999210
133 32 30	0.9999098	0.9999118	0.9999140	0.9999164	0.9999190
133 35 00	0.9999085	0.9999104	0.9999124	0.9999147	0.9999172
133 37 30	0.9999072	0.9999090	0.9999109	0.9999130	0.9999154
133 40 00	0.9999061	0.9999077	0.9999095	0.9999115	0.9999137
133 42 30	0.9999050	0.9999065	0.9999082	0.9999100	0.9999121
133 45 00	0.9999041	0.9999054	0.9999070	0.9999087	0.9999106
133 47 30	0.9999032	0.9999044	0.9999058	0.9999074	0.9999092
133 50 00	0.9999025	0.9999036	0.9999048	0.9999063	0.9999079
133 52 30	0.9999018	0.9999028	0.9999039	0.9999052	0.9999067
133 55 00	0.9999013	0.9999021	0.9999031	0.9999043	0.9999056
133 57 30	0.9999008	0.9999015	0.9999024	0.9999034	0.9999046
134 00 00	0.9999005	0.9999010	0.9999017	0.9999026	0.9999037
134 02 30	0.9999002	0.9999006	0.9999012	0.9999020	0.9999029
134 05 00	0.9999001	0.9999003	0.9999008	0.9999014	0.9999022
134 07 30	0.9999000	0.9999001	0.9999004	0.9999009	0.9999016
134 10 00	0.9999000	0.9999000	0.9999002	0.9999005	0.9999011
134 12 30	0.9999002	0.9999000	0.9999000	0.9999003	0.9999007
134 15 00	0.9999004	0.9999001	0.9999000	0.9999001	0.9999004
134 17 30	0.9999007	0.9999003	0.9999001	0.9999000	0.9999002
134 20 00	0.9999012	0.9999006	0.9999002	0.9999000	0.9999000
134 22 30	0.9999017	0.9999010	0.9999005	0.9999001	0.9999000
134 25 00	0.9999023	0.9999015	0.9999008	0.9999003	0.9999001
134 27 30	0.9999030	0.9999020	0.9999012	0.9999006	0.9999002
134 30 00	0.9999038	0.9999027	0.9999018	0.9999010	0.9999005

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	57 20 00	57 22 30	57 25 00	57 27 30	57 30 00
134 30 00	- 0 42 03.5	- 0 42 03.8	- 0 42 04.0	- 0 42 04.2	- 0 42 04.4
134 32 30	- 0 44 09.9	- 0 44 10.2	- 0 44 10.5	- 0 44 10.7	- 0 44 10.9
134 35 00	- 0 46 16.3	- 0 46 16.7	- 0 46 17.0	- 0 46 17.3	- 0 46 17.5
134 37 30	- 0 48 22.8	- 0 48 23.2	- 0 48 23.5	- 0 48 23.8	- 0 48 24.1
134 40 00	- 0 50 29.2	- 0 50 29.7	- 0 50 30.1	- 0 50 30.4	- 0 50 30.7
134 42 30	- 0 52 35.7	- 0 52 36.2	- 0 52 36.6	- 0 52 37.0	- 0 52 37.3
134 45 00	- 0 54 42.2	- 0 54 42.7	- 0 54 43.2	- 0 54 43.6	- 0 54 44.0
134 47 30	- 0 56 48.7	- 0 56 49.3	- 0 56 49.8	- 0 56 50.2	- 0 56 50.6
134 50 00	- 0 58 55.2	- 0 58 55.8	- 0 58 56.4	- 0 58 56.9	- 0 58 57.3
134 52 30	- 1 01 01.8	- 1 01 02.4	- 1 01 03.0	- 1 01 03.5	- 1 01 04.0
134 55 00	- 1 03 08.3	- 1 03 09.0	- 1 03 09.6	- 1 03 10.2	- 1 03 10.7
134 57 30	- 1 05 14.9	- 1 05 15.6	- 1 05 16.3	- 1 05 16.9	- 1 05 17.4
135 00 00	- 1 07 21.5	- 1 07 22.3	- 1 07 22.9	- 1 07 23.6	- 1 07 24.2
135 02 30	- 1 09 28.1	- 1 09 28.9	- 1 09 29.6	- 1 09 30.3	- 1 09 30.9
135 05 00	- 1 11 34.7	- 1 11 35.6	- 1 11 36.3	- 1 11 37.0	- 1 11 37.7
135 07 30	- 1 13 41.4	- 1 13 42.2	- 1 13 43.0	- 1 13 43.8	- 1 13 44.5
135 10 00	- 1 15 48.0	- 1 15 48.9	- 1 15 49.7	- 1 15 50.5	- 1 15 51.3
135 12 30	- 1 17 54.7	- 1 17 55.6	- 1 17 56.5	- 1 17 57.3	- 1 17 58.1
135 15 00	- 1 20 01.4	- 1 20 02.3	- 1 20 03.2	- 1 20 04.1	- 1 20 04.9
135 17 30	- 1 22 08.1	- 1 22 09.1	- 1 22 10.0	- 1 22 10.9	- 1 22 11.7
135 20 00	- 1 24 14.8	- 1 24 15.8	- 1 24 16.8	- 1 24 17.7	- 1 24 18.6
135 22 30	- 1 26 21.5	- 1 26 22.6	- 1 26 23.6	- 1 26 24.6	- 1 26 25.5
135 25 00	- 1 28 28.3	- 1 28 29.4	- 1 28 30.4	- 1 28 31.4	- 1 28 32.4
135 27 30	- 1 30 35.0	- 1 30 36.2	- 1 30 37.3	- 1 30 38.3	- 1 30 39.3
135 30 00	- 1 32 41.8	- 1 32 43.0	- 1 32 44.1	- 1 32 45.2	- 1 32 46.2
135 32 30	- 1 34 48.6	- 1 34 49.8	- 1 34 51.0	- 1 34 52.1	- 1 34 53.1
135 35 00	- 1 36 55.4	- 1 36 56.7	- 1 36 57.9	- 1 36 59.0	- 1 37 00.1
135 37 30	- 1 39 02.3	- 1 39 03.5	- 1 39 04.8	- 1 39 05.9	- 1 39 07.1
135 40 00	- 1 41 09.1	- 1 41 10.4	- 1 41 11.7	- 1 41 12.9	- 1 41 14.0
135 42 30	- 1 43 16.0	- 1 43 17.3	- 1 43 18.6	- 1 43 19.8	- 1 43 21.0
135 45 00	- 1 45 22.8	- 1 45 24.2	- 1 45 25.6	- 1 45 26.8	- 1 45 28.1
135 47 30	- 1 47 29.7	- 1 47 31.1	- 1 47 32.5	- 1 47 33.8	- 1 47 35.1
135 50 00	- 1 49 36.6	- 1 49 38.1	- 1 49 39.5	- 1 49 40.8	- 1 49 42.1
135 52 30	- 1 51 43.6	- 1 51 45.0	- 1 51 46.5	- 1 51 47.9	- 1 51 49.2
135 55 00	- 1 53 50.5	- 1 53 52.0	- 1 53 53.5	- 1 53 54.9	- 1 53 56.3
135 57 30	- 1 55 57.5	- 1 55 59.0	- 1 56 00.5	- 1 56 02.0	- 1 56 03.4
136 00 00	- 1 58 04.4	- 1 58 06.0	- 1 58 07.6	- 1 58 09.0	- 1 58 10.5
136 02 30	- 2 00 11.4	- 2 00 13.0	- 2 00 14.6	- 2 00 16.1	- 2 00 17.6
136 05 00	- 2 02 18.4	- 2 02 20.1	- 2 02 21.7	- 2 02 23.2	- 2 02 24.8
136 07 30	- 2 04 25.4	- 2 04 27.1	- 2 04 28.8	- 2 04 30.4	- 2 04 31.9
136 10 00	- 2 06 32.5	- 2 06 34.2	- 2 06 35.9	- 2 06 37.5	- 2 06 39.1
136 12 30	- 2 08 39.5	- 2 08 41.3	- 2 08 43.0	- 2 08 44.7	- 2 08 46.3
136 15 00	- 2 10 46.6	- 2 10 48.4	- 2 10 50.1	- 2 10 51.8	- 2 10 53.5
136 17 30	- 2 12 53.7	- 2 12 55.5	- 2 12 57.3	- 2 12 59.0	- 2 13 00.7
136 20 00	- 2 15 00.8	- 2 15 02.6	- 2 15 04.5	- 2 15 06.2	- 2 15 07.9
136 22 30	- 2 17 07.9	- 2 17 09.8	- 2 17 11.7	- 2 17 13.5	- 2 17 15.2
136 25 00	- 2 19 15.0	- 2 19 17.0	- 2 19 18.9	- 2 19 20.7	- 2 19 22.5
136 27 30	- 2 21 22.2	- 2 21 24.2	- 2 21 26.1	- 2 21 27.9	- 2 21 29.8
136 30 00	- 2 23 29.3	- 2 23 31.4	- 2 23 33.3	- 2 23 35.2	- 2 23 37.1
136 32 30	- 2 25 36.5	- 2 25 38.6	- 2 25 40.6	- 2 25 42.5	- 2 25 44.4
136 35 00	- 2 27 43.7	- 2 27 45.8	- 2 27 47.8	- 2 27 49.8	- 2 27 51.7
136 37 30	- 2 29 50.9	- 2 29 53.0	- 2 29 55.1	- 2 29 57.1	- 2 29 59.1
136 40 00	- 2 31 58.2	- 2 32 00.3	- 2 32 02.4	- 2 32 04.4	- 2 32 06.4
136 42 30	- 2 34 05.4	- 2 34 07.6	- 2 34 09.7	- 2 34 11.6	- 2 34 13.8
136 45 00	- 2 36 12.7	- 2 36 14.9	- 2 36 17.1	- 2 36 19.2	- 2 36 21.2
136 47 30	- 2 38 20.0	- 2 38 22.2	- 2 38 24.4	- 2 38 26.5	- 2 38 28.6
136 50 00	- 2 40 27.3	- 2 40 29.5	- 2 40 31.8	- 2 40 33.9	- 2 40 36.1
136 52 30	- 2 42 34.6	- 2 42 36.9	- 2 42 39.1	- 2 42 41.4	- 2 42 43.5
136 55 00	- 2 44 41.9	- 2 44 44.2	- 2 44 46.5	- 2 44 48.8	- 2 44 51.0
136 57 30	- 2 46 49.2	- 2 46 51.6	- 2 46 54.0	- 2 46 56.2	- 2 46 58.5
137 00 00	- 2 48 56.6	- 2 48 59.0	- 2 49 01.4	- 2 49 03.7	- 2 49 06.0

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\,[-.6(x_2-x_1)+.8(y_2-y_1)][.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	57 20 00	57 22 30	57 25 00	57 27 30	57 30 00
134 30 00	0.9999038	0.9999027	0.9999018	0.9999010	0.9999005
134 32 30	0.9999048	0.9999035	0.9999024	0.9999015	0.9999009
134 35 00	0.9999058	0.9999044	0.9999031	0.9999021	0.9999013
134 37 30	0.9999069	0.9999053	0.9999040	0.9999028	0.9999019
134 40 00	0.9999081	0.9999064	0.9999049	0.9999036	0.9999025
134 42 30	0.9999094	0.9999075	0.9999059	0.9999045	0.9999032
134 45 00	0.9999108	0.9999088	0.9999070	0.9999055	0.9999041
134 47 30	0.9999122	0.9999101	0.9999082	0.9999065	0.9999050
134 50 00	0.9999138	0.9999116	0.9999095	0.9999077	0.9999060
134 52 30	0.9999155	0.9999131	0.9999109	0.9999089	0.9999072
134 55 00	0.9999173	0.9999147	0.9999124	0.9999103	0.9999084
134 57 30	0.9999191	0.9999165	0.9999140	0.9999117	0.9999097
135 00 00	0.9999211	0.9999183	0.9999157	0.9999133	0.9999111
135 02 30	0.9999232	0.9999202	0.9999175	0.9999149	0.9999126
135 05 00	0.9999253	0.9999222	0.9999193	0.9999167	0.9999142
135 07 30	0.9999276	0.9999243	0.9999213	0.9999185	0.9999159
135 10 00	0.9999299	0.9999265	0.9999234	0.9999204	0.9999176
135 12 30	0.9999323	0.9999288	0.9999255	0.9999224	0.9999195
135 15 00	0.9999349	0.9999312	0.9999278	0.9999245	0.9999215
135 17 30	0.9999375	0.9999337	0.9999301	0.9999267	0.9999235
135 20 00	0.9999402	0.9999363	0.9999326	0.9999290	0.9999257
135 22 30	0.9999430	0.9999390	0.9999351	0.9999314	0.9999279
135 25 00	0.9999459	0.9999417	0.9999377	0.9999339	0.9999303
135 27 30	0.9999490	0.9999446	0.9999404	0.9999365	0.9999327
135 30 00	0.9999520	0.9999475	0.9999432	0.9999391	0.9999353
135 32 30	0.9999552	0.9999506	0.9999461	0.9999419	0.9999379
135 35 00	0.9999585	0.9999537	0.9999491	0.9999448	0.9999406
135 37 30	0.9999619	0.9999570	0.9999522	0.9999477	0.9999434
135 40 00	0.9999654	0.9999603	0.9999554	0.9999507	0.9999463
135 42 30	0.9999689	0.9999637	0.9999587	0.9999539	0.9999493
135 45 00	0.9999726	0.9999672	0.9999620	0.9999571	0.9999524
135 47 30	0.9999763	0.9999708	0.9999655	0.9999604	0.9999555
135 50 00	0.9999801	0.9999745	0.9999691	0.9999638	0.9999588
135 52 30	0.9999841	0.9999783	0.9999727	0.9999673	0.9999621
135 55 00	0.9999881	0.9999822	0.9999764	0.9999709	0.9999656
135 57 30	0.9999922	0.9999861	0.9999803	0.9999746	0.9999691
136 00 00	0.9999964	0.9999902	0.9999842	0.9999784	0.9999728
136 02 30	1.0000007	0.9999943	0.9999882	0.9999822	0.9999765
136 05 00	1.0000051	0.9999986	0.9999923	0.9999862	0.9999803
136 07 30	1.0000096	1.0000029	0.9999965	0.9999902	0.9999842
136 10 00	1.0000141	1.0000073	1.0000007	0.9999944	0.9999882
136 12 30	1.0000188	1.0000119	1.0000051	0.9999986	0.9999923
136 15 00	1.0000236	1.0000165	1.0000096	1.0000029	0.9999964
136 17 30	1.0000284	1.0000212	1.0000141	1.0000073	1.0000007
136 20 00	1.0000333	1.0000259	1.0000188	1.0000118	1.0000051
136 22 30	1.0000384	1.0000308	1.0000235	1.0000164	1.0000095
136 25 00	1.0000435	1.0000358	1.0000283	1.0000211	1.0000140
136 27 30	1.0000487	1.0000409	1.0000332	1.0000259	1.0000187
136 30 00	1.0000540	1.0000460	1.0000382	1.0000307	1.0000234
136 32 30	1.0000593	1.0000512	1.0000433	1.0000357	1.0000282
136 35 00	1.0000648	1.0000566	1.0000485	1.0000407	1.0000331
136 37 30	1.0000704	1.0000620	1.0000538	1.0000458	1.0000381
136 40 00	1.0000760	1.0000675	1.0000592	1.0000510	1.0000431
136 42 30	1.0000818	1.0000731	1.0000646	1.0000563	1.0000483
136 45 00	1.0000876	1.0000788	1.0000701	1.0000617	1.0000535
136 47 30	1.0000935	1.0000845	1.0000758	1.0000672	1.0000589
136 50 00	1.0000995	1.0000904	1.0000815	1.0000728	1.0000643
136 52 30	1.0001056	1.0000964	1.0000873	1.0000784	1.0000698
136 55 00	1.0001118	1.0001024	1.0000932	1.0000842	1.0000754
136 57 30	1.0001181	1.0001085	1.0000992	1.0000900	1.0000811
137 00 00	1.0001245	1.0001147	1.0001052	1.0000959	1.0000869

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	57 30 00	57 32 30	57 35 00	57 37 30	57 40 00
132 00 00	1 24 02.2	1 24 04.4	1 24 06.7	1 24 09.0	1 24 11.4
132 02 30	1 21 56.5	1 21 58.7	1 22 00.9	1 22 03.2	1 22 05.5
132 05 00	1 19 50.9	1 19 53.0	1 19 55.2	1 19 57.4	1 19 59.7
132 07 30	1 17 45.1	1 17 47.2	1 17 49.4	1 17 51.6	1 17 53.8
132 10 00	1 15 39.4	1 15 41.5	1 15 43.6	1 15 45.7	1 15 47.9
132 12 30	1 13 33.7	1 13 35.7	1 13 37.8	1 13 39.9	1 13 42.0
132 15 00	1 11 27.9	1 11 29.9	1 11 31.9	1 11 34.0	1 11 36.1
132 17 30	1 09 22.2	1 09 24.1	1 09 26.1	1 09 28.1	1 09 30.2
132 20 00	1 07 16.4	1 07 18.3	1 07 20.2	1 07 22.2	1 07 24.3
132 22 30	1 05 10.6	1 05 12.4	1 05 14.3	1 05 16.3	1 05 18.3
132 25 00	1 03 04.8	1 03 06.6	1 03 08.5	1 03 10.4	1 03 12.3
132 27 30	1 00 59.0	1 01 00.7	1 01 02.6	1 01 04.4	1 01 06.4
132 30 00	0 58 53.1	0 58 54.9	0 58 56.6	0 58 58.5	0 59 00.4
132 32 30	0 56 47.3	0 56 49.0	0 56 50.7	0 56 52.5	0 56 54.4
132 35 00	0 54 41.4	0 54 43.1	0 54 44.8	0 54 46.5	0 54 48.3
132 37 30	0 52 35.5	0 52 37.1	0 52 38.8	0 52 40.5	0 52 42.3
132 40 00	0 50 29.6	0 50 31.2	0 50 32.8	0 50 34.5	0 50 36.2
132 42 30	0 48 23.7	0 48 25.3	0 48 26.8	0 48 28.5	0 48 30.2
132 45 00	0 46 17.8	0 46 19.3	0 46 20.8	0 46 22.4	0 46 24.1
132 47 30	0 44 11.9	0 44 13.3	0 44 14.8	0 44 16.4	0 44 18.0
132 50 00	0 42 05.9	0 42 07.3	0 42 08.8	0 42 10.3	0 42 11.9
132 52 30	0 39 59.9	0 40 01.3	0 40 02.8	0 40 04.2	0 40 05.8
132 55 00	0 37 54.0	0 37 55.3	0 37 56.7	0 37 58.1	0 37 59.6
132 57 30	0 35 48.0	0 35 49.3	0 35 50.6	0 35 52.0	0 35 53.5
133 00 00	0 33 42.0	0 33 43.2	0 33 44.5	0 33 45.9	0 33 47.3
133 02 30	0 31 35.9	0 31 37.2	0 31 38.4	0 31 39.8	0 31 41.1
133 05 00	0 29 29.9	0 29 31.1	0 29 32.3	0 29 33.6	0 29 34.9
133 07 30	0 27 23.8	0 27 25.0	0 27 26.2	0 27 27.4	0 27 28.7
133 10 00	0 25 17.8	0 25 18.9	0 25 20.0	0 25 21.2	0 25 22.5
133 12 30	0 23 11.7	0 23 12.7	0 23 13.9	0 23 15.0	0 23 16.3
133 15 00	0 21 05.6	0 21 06.6	0 21 07.7	0 21 08.8	0 21 10.0
133 17 30	0 18 59.5	0 19 00.5	0 19 01.5	0 19 02.6	0 19 03.8
133 20 00	0 16 53.3	0 16 54.3	0 16 55.3	0 16 56.4	0 16 57.5
133 22 30	0 14 47.2	0 14 48.1	0 14 49.1	0 14 50.1	0 14 51.2
133 25 00	0 12 41.0	0 12 41.9	0 12 42.8	0 12 43.8	0 12 44.9
133 27 30	0 10 34.9	0 10 35.7	0 10 36.6	0 10 37.5	0 10 38.5
133 30 00	0 08 28.7	0 08 29.5	0 08 30.3	0 08 31.2	0 08 32.2
133 32 30	0 06 22.5	0 06 23.2	0 06 24.0	0 06 24.9	0 06 25.8
133 35 00	0 04 16.2	0 04 17.0	0 04 17.8	0 04 18.6	0 04 19.5
133 37 30	0 02 10.0	0 02 10.7	0 02 11.4	0 02 12.2	0 02 13.1
133 40 00	0 00 03.8	0 00 04.4	0 00 05.1	0 00 05.9	0 00 06.7
133 42 30	- 0 02 02.5	- 0 02 01.9	- 0 02 01.2	- 0 02 00.5	- 0 01 59.7
133 45 00	- 0 04 08.8	- 0 04 08.2	- 0 04 07.6	- 0 04 06.9	- 0 04 06.2
133 47 30	- 0 06 15.1	- 0 06 14.5	- 0 06 13.9	- 0 06 13.3	- 0 06 12.6
133 50 00	- 0 08 21.4	- 0 08 20.9	- 0 08 20.3	- 0 08 19.7	- 0 08 19.1
133 52 30	- 0 10 27.7	- 0 10 27.2	- 0 10 26.7	- 0 10 26.2	- 0 10 25.5
133 55 00	- 0 12 34.0	- 0 12 33.6	- 0 12 33.1	- 0 12 32.6	- 0 12 32.0
133 57 30	- 0 14 40.4	- 0 14 40.0	- 0 14 39.6	- 0 14 39.1	- 0 14 38.5
134 00 00	- 0 16 46.8	- 0 16 46.4	- 0 16 46.0	- 0 16 45.5	- 0 16 45.0
134 02 30	- 0 18 53.1	- 0 18 52.8	- 0 18 52.5	- 0 18 52.0	- 0 18 51.6
134 05 00	- 0 20 59.5	- 0 20 59.3	- 0 20 58.9	- 0 20 58.6	- 0 20 58.1
134 07 30	- 0 23 06.0	- 0 23 05.7	- 0 23 05.4	- 0 23 05.1	- 0 23 04.7
134 10 00	- 0 25 12.4	- 0 25 12.2	- 0 25 11.9	- 0 25 11.6	- 0 25 11.3
134 12 30	- 0 27 18.8	- 0 27 18.7	- 0 27 18.4	- 0 27 18.2	- 0 27 17.8
134 15 00	- 0 29 25.3	- 0 29 25.2	- 0 29 25.0	- 0 29 24.7	- 0 29 24.5
134 17 30	- 0 31 31.8	- 0 31 31.7	- 0 31 31.5	- 0 31 31.3	- 0 31 31.1
134 20 00	- 0 33 38.3	- 0 33 38.2	- 0 33 38.1	- 0 33 37.9	- 0 33 37.7
134 22 30	- 0 35 44.8	- 0 35 44.7	- 0 35 44.7	- 0 35 44.5	- 0 35 44.4
134 25 00	- 0 37 51.3	- 0 37 51.3	- 0 37 51.3	- 0 37 51.2	- 0 37 51.0
134 27 30	- 0 39 57.8	- 0 39 57.9	- 0 39 57.9	- 0 39 57.8	- 0 39 57.7
134 30 00	- 0 42 04.4	- 0 42 04.5	- 0 42 04.5	- 0 42 04.5	- 0 42 04.4

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	57 30 00	57 32 30	57 35 00	57 37 30	57 40 00
132 00 00	1.0000595	1.0000671	1.0000749	1.0000829	1.0000911
132 02 30	1.0000539	1.0000614	1.0000690	1.0000769	1.0000849
132 05 00	1.0000483	1.0000557	1.0000632	1.0000710	1.0000789
132 07 30	1.0000429	1.0000501	1.0000576	1.0000652	1.0000729
132 10 00	1.0000376	1.0000447	1.0000520	1.0000594	1.0000671
132 12 30	1.0000324	1.0000393	1.0000465	1.0000538	1.0000614
132 15 00	1.0000272	1.0000341	1.0000411	1.0000483	1.0000557
132 17 30	1.0000222	1.0000289	1.0000358	1.0000429	1.0000502
132 20 00	1.0000173	1.0000239	1.0000307	1.0000376	1.0000448
132 22 30	1.0000125	1.0000190	1.0000256	1.0000324	1.0000394
132 25 00	1.0000078	1.0000141	1.0000206	1.0000273	1.0000342
132 27 30	1.0000032	1.0000094	1.0000158	1.0000223	1.0000291
132 30 00	0.9999987	1.0000048	1.0000110	1.0000174	1.0000241
132 32 30	0.99999943	1.0000002	1.0000063	1.0000127	1.0000191
132 35 00	0.99999900	0.9999958	1.0000018	1.0000080	1.0000143
132 37 30	0.9999858	0.9999915	0.9999973	1.0000034	1.0000096
132 40 00	0.99998817	0.9999872	0.9999930	0.9999989	1.0000050
132 42 30	0.9999777	0.9999831	0.9999887	0.9999945	1.0000005
132 45 00	0.9999738	0.9999791	0.9999846	0.9999902	0.9999961
132 47 30	0.9999700	0.9999752	0.9999805	0.9999861	0.9999918
132 50 00	0.9999663	0.9999714	0.9999766	0.9999820	0.9999876
132 52 30	0.9999627	0.9999676	0.9999727	0.9999780	0.9999834
132 55 00	0.9999593	0.9999640	0.9999690	0.9999741	0.9999794
132 57 30	0.9999559	0.9999605	0.9999653	0.9999703	0.9999755
133 00 00	0.9999526	0.9999571	0.9999618	0.9999667	0.9999717
133 02 30	0.9999494	0.9999538	0.9999583	0.9999631	0.9999680
133 05 00	0.9999463	0.9999506	0.9999550	0.9999596	0.9999644
133 07 30	0.9999433	0.9999475	0.9999517	0.9999562	0.9999609
133 10 00	0.9999405	0.9999444	0.9999486	0.9999530	0.9999575
133 12 30	0.9999377	0.9999415	0.9999456	0.9999498	0.9999542
133 15 00	0.9999350	0.9999387	0.9999426	0.9999467	0.9999510
133 17 30	0.9999324	0.9999360	0.9999398	0.9999437	0.9999479
133 20 00	0.9999299	0.9999334	0.9999370	0.9999408	0.9999448
133 22 30	0.9999276	0.9999309	0.9999344	0.9999381	0.9999419
133 25 00	0.9999253	0.9999285	0.9999318	0.9999354	0.9999391
133 27 30	0.9999231	0.9999261	0.9999294	0.9999328	0.9999364
133 30 00	0.9999210	0.9999239	0.9999270	0.9999303	0.9999338
133 32 30	0.9999190	0.9999218	0.9999248	0.9999279	0.9999313
133 35 00	0.9999172	0.9999198	0.9999226	0.9999257	0.9999289
133 37 30	0.9999154	0.9999179	0.9999206	0.9999235	0.9999265
133 40 00	0.9999137	0.9999161	0.9999186	0.9999214	0.9999243
133 42 30	0.9999121	0.9999143	0.9999168	0.9999194	0.9999222
133 45 00	0.9999106	0.9999127	0.9999150	0.9999175	0.9999202
133 47 30	0.9999092	0.9999112	0.9999133	0.9999157	0.9999182
133 50 00	0.9999079	0.9999098	0.9999118	0.9999140	0.9999164
133 52 30	0.9999067	0.9999084	0.9999103	0.9999124	0.9999147
133 55 00	0.9999056	0.9999072	0.9999090	0.9999109	0.9999130
133 57 30	0.9999046	0.9999061	0.9999077	0.9999095	0.9999115
134 00 00	0.9999037	0.9999050	0.9999065	0.9999082	0.9999101
134 02 30	0.9999029	0.9999041	0.9999054	0.9999070	0.9999087
134 05 00	0.9999022	0.9999032	0.9999045	0.9999059	0.9999075
134 07 30	0.9999016	0.9999025	0.9999036	0.9999049	0.9999063
134 10 00	0.9999011	0.9999019	0.9999028	0.9999039	0.9999053
134 12 30	0.9999007	0.9999013	0.9999021	0.9999031	0.9999043
134 15 00	0.9999004	0.9999009	0.9999015	0.9999024	0.9999035
134 17 30	0.9999002	0.9999005	0.9999010	0.9999018	0.9999027
134 20 00	0.9999000	0.9999002	0.9999006	0.9999012	0.9999020
134 22 30	0.9999000	0.9999001	0.9999003	0.9999008	0.9999014
134 25 00	0.9999001	0.9999000	0.9999001	0.9999005	0.9999010
134 27 30	0.9999002	0.9999000	0.9999000	0.9999002	0.9999006
134 30 00	0.9999005	0.9999002	0.9999000	0.9999001	0.9999003

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	57 30 00	57 32 30	57 35 00	57 37 30	57 40 00
134 30 00	- 0 42 04.4	- 0 42 04.5	- 0 42 04.5	- 0 42 04.5	- 0 42 04.4
134 32 30	- 0 44 10.9	- 0 44 11.1	- 0 44 11.1	- 0 44 11.2	- 0 44 11.1
134 35 00	- 0 46 17.5	- 0 46 17.7	- 0 46 17.8	- 0 46 17.8	- 0 46 17.9
134 37 30	- 0 48 24.1	- 0 48 24.3	- 0 48 24.5	- 0 48 24.6	- 0 48 24.6
134 40 00	- 0 50 30.7	- 0 50 31.0	- 0 50 31.1	- 0 50 31.3	- 0 50 31.4
134 42 30	- 0 52 37.3	- 0 52 37.6	- 0 52 37.8	- 0 52 38.0	- 0 52 38.1
134 45 00	- 0 54 44.0	- 0 54 44.3	- 0 54 44.6	- 0 54 44.8	- 0 54 44.9
134 47 30	- 0 56 50.6	- 0 56 51.0	- 0 56 51.3	- 0 56 51.5	- 0 56 51.7
134 50 00	- 0 58 57.3	- 0 58 57.7	- 0 58 58.0	- 0 58 58.3	- 0 58 58.5
134 52 30	- 1 01 04.0	- 1 01 04.4	- 1 01 04.8	- 1 01 05.1	- 1 01 05.4
134 55 00	- 1 03 10.7	- 1 03 11.2	- 1 03 11.6	- 1 03 11.9	- 1 03 12.2
134 57 30	- 1 05 17.4	- 1 05 17.9	- 1 05 18.4	- 1 05 18.7	- 1 05 19.1
135 00 00	- 1 07 24.2	- 1 07 24.7	- 1 07 25.2	- 1 07 25.6	- 1 07 26.0
135 02 30	- 1 09 30.9	- 1 09 31.5	- 1 09 32.0	- 1 09 32.4	- 1 09 32.9
135 05 00	- 1 11 37.7	- 1 11 38.3	- 1 11 38.8	- 1 11 39.3	- 1 11 39.8
135 07 30	- 1 13 44.5	- 1 13 45.1	- 1 13 45.7	- 1 13 46.2	- 1 13 46.7
135 10 00	- 1 15 51.3	- 1 15 51.9	- 1 15 52.5	- 1 15 53.1	- 1 15 53.6
135 12 30	- 1 17 58.1	- 1 17 58.8	- 1 17 59.4	- 1 18 00.0	- 1 18 00.6
135 15 00	- 1 20 04.9	- 1 20 05.6	- 1 20 06.3	- 1 20 07.0	- 1 20 07.6
135 17 30	- 1 22 11.7	- 1 22 12.5	- 1 22 13.2	- 1 22 13.9	- 1 22 14.5
135 20 00	- 1 24 18.6	- 1 24 19.4	- 1 24 20.2	- 1 24 20.9	- 1 24 21.5
135 22 30	- 1 26 25.5	- 1 26 26.3	- 1 26 27.1	- 1 26 27.9	- 1 26 28.6
135 25 00	- 1 28 32.4	- 1 28 33.3	- 1 28 34.1	- 1 28 34.9	- 1 28 35.6
135 27 30	- 1 30 39.3	- 1 30 40.2	- 1 30 41.1	- 1 30 41.9	- 1 30 42.6
135 30 00	- 1 32 46.2	- 1 32 47.2	- 1 32 48.1	- 1 32 48.9	- 1 32 49.7
135 32 30	- 1 34 53.1	- 1 34 54.1	- 1 34 55.1	- 1 34 56.0	- 1 34 56.8
135 35 00	- 1 37 00.1	- 1 37 01.1	- 1 37 02.1	- 1 37 03.0	- 1 37 03.9
135 37 30	- 1 39 07.1	- 1 39 08.1	- 1 39 09.1	- 1 39 10.1	- 1 39 11.0
135 40 00	- 1 41 14.0	- 1 41 15.1	- 1 41 16.2	- 1 41 17.2	- 1 41 18.1
135 42 30	- 1 43 21.0	- 1 43 22.2	- 1 43 23.3	- 1 43 24.3	- 1 43 25.3
135 45 00	- 1 45 28.1	- 1 45 29.2	- 1 45 30.3	- 1 45 31.4	- 1 45 32.4
135 47 30	- 1 47 35.1	- 1 47 36.3	- 1 47 37.4	- 1 47 38.5	- 1 47 39.6
135 50 00	- 1 49 42.1	- 1 49 43.4	- 1 49 44.6	- 1 49 45.7	- 1 49 46.8
135 52 30	- 1 51 49.2	- 1 51 50.5	- 1 51 51.7	- 1 51 52.9	- 1 51 54.0
135 55 00	- 1 53 56.3	- 1 53 57.6	- 1 53 58.8	- 1 54 00.1	- 1 54 01.2
135 57 30	- 1 56 03.4	- 1 56 04.7	- 1 56 06.0	- 1 56 07.3	- 1 56 08.4
136 00 00	- 1 58 10.5	- 1 58 11.9	- 1 58 13.2	- 1 58 14.5	- 1 58 15.7
136 02 30	- 2 00 17.6	- 2 00 19.0	- 2 00 20.4	- 2 00 21.7	- 2 00 23.0
136 05 00	- 2 02 24.8	- 2 02 26.2	- 2 02 27.6	- 2 02 28.9	- 2 02 30.2
136 07 30	- 2 04 31.9	- 2 04 33.4	- 2 04 34.8	- 2 04 36.2	- 2 04 37.5
136 10 00	- 2 06 39.1	- 2 06 40.6	- 2 06 42.1	- 2 06 43.5	- 2 06 44.8
136 12 30	- 2 08 46.3	- 2 08 47.8	- 2 08 49.3	- 2 08 50.8	- 2 08 52.2
136 15 00	- 2 10 53.5	- 2 10 55.1	- 2 10 56.6	- 2 10 58.1	- 2 10 59.5
136 17 30	- 2 13 00.7	- 2 13 02.3	- 2 13 03.9	- 2 13 05.4	- 2 13 06.9
136 20 00	- 2 15 07.9	- 2 15 09.6	- 2 15 11.2	- 2 15 12.8	- 2 15 14.3
136 22 30	- 2 17 15.2	- 2 17 16.9	- 2 17 18.5	- 2 17 20.1	- 2 17 21.7
136 25 00	- 2 19 22.5	- 2 19 24.2	- 2 19 25.9	- 2 19 27.5	- 2 19 29.1
136 27 30	- 2 21 29.8	- 2 21 31.5	- 2 21 33.2	- 2 21 34.9	- 2 21 36.5
136 30 00	- 2 23 37.1	- 2 23 38.9	- 2 23 40.6	- 2 23 42.3	- 2 23 43.9
136 32 30	- 2 25 44.4	- 2 25 46.2	- 2 25 48.0	- 2 25 49.7	- 2 25 51.4
136 35 00	- 2 27 51.7	- 2 27 53.6	- 2 27 55.4	- 2 27 57.1	- 2 27 58.9
136 37 30	- 2 29 59.1	- 2 30 01.0	- 2 30 02.8	- 2 30 04.6	- 2 30 06.3
136 40 00	- 2 32 06.4	- 2 32 08.4	- 2 32 10.2	- 2 32 12.1	- 2 32 13.8
136 42 30	- 2 34 13.8	- 2 34 15.8	- 2 34 17.7	- 2 34 19.6	- 2 34 21.4
136 45 00	- 2 36 21.2	- 2 36 23.2	- 2 36 25.2	- 2 36 27.1	- 2 36 28.9
136 47 30	- 2 38 28.6	- 2 38 30.7	- 2 38 32.6	- 2 38 34.6	- 2 38 36.4
136 50 00	- 2 40 36.1	- 2 40 38.1	- 2 40 40.1	- 2 40 42.1	- 2 40 44.0
136 52 30	- 2 42 43.5	- 2 42 45.6	- 2 42 47.7	- 2 42 49.7	- 2 42 51.6
136 55 00	- 2 44 51.0	- 2 44 53.1	- 2 44 55.2	- 2 44 57.2	- 2 44 59.2
136 57 30	- 2 46 58.5	- 2 47 00.6	- 2 47 02.7	- 2 47 04.8	- 2 47 06.8
137 00 00	- 2 49 06.0	- 2 49 08.2	- 2 49 10.3	- 2 49 12.4	- 2 49 14.4

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\,[-.6(x_2-x_1)+.8(y_2-y_1)][.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	57 30 00	57 32 30	57 35 00	57 37 30	57 40 00
134 30 00	0.9999005	0.9999002	0.9999000	0.9999001	0.9999003
134 32 30	0.9999009	0.9999004	0.9999001	0.9999000	0.9999001
134 35 00	0.9999013	0.9999007	0.9999003	0.9999000	0.9999000
134 37 30	0.9999019	0.9999011	0.9999005	0.9999002	0.9999000
134 40 00	0.9999025	0.9999016	0.9999009	0.9999004	0.9999001
134 42 30	0.9999032	0.9999022	0.9999014	0.9999007	0.9999003
134 45 00	0.9999041	0.9999029	0.9999019	0.9999012	0.9999006
134 47 30	0.9999050	0.9999037	0.9999026	0.9999017	0.9999010
134 50 00	0.9999060	0.9999046	0.9999033	0.9999023	0.9999014
134 52 30	0.9999072	0.9999056	0.9999042	0.9999030	0.9999020
134 55 00	0.9999084	0.9999066	0.9999051	0.9999038	0.9999027
134 57 30	0.9999097	0.9999078	0.9999061	0.9999047	0.9999034
135 00 00	0.9999111	0.9999091	0.9999073	0.9999057	0.9999043
135 02 30	0.9999126	0.9999104	0.9999085	0.9999067	0.9999052
135 05 00	0.9999142	0.9999119	0.9999098	0.9999079	0.9999062
135 07 30	0.9999159	0.9999134	0.9999112	0.9999092	0.9999074
135 10 00	0.9999176	0.9999151	0.9999127	0.9999106	0.9999086
135 12 30	0.9999195	0.9999168	0.9999143	0.9999120	0.9999099
135 15 00	0.9999215	0.9999186	0.9999160	0.9999136	0.9999113
135 17 30	0.9999235	0.9999206	0.9999178	0.9999152	0.9999128
135 20 00	0.9999257	0.9999226	0.9999197	0.9999169	0.9999144
135 22 30	0.9999279	0.9999247	0.9999216	0.9999188	0.9999161
135 25 00	0.9999303	0.9999269	0.9999237	0.9999207	0.9999179
135 27 30	0.9999327	0.9999292	0.9999258	0.9999227	0.9999198
135 30 00	0.9999353	0.9999316	0.9999281	0.9999248	0.9999217
135 32 30	0.9999379	0.9999340	0.9999304	0.9999270	0.9999238
135 35 00	0.9999406	0.9999366	0.9999328	0.9999293	0.9999259
135 37 30	0.9999434	0.9999393	0.9999354	0.9999317	0.9999282
135 40 00	0.9999463	0.9999420	0.9999380	0.9999341	0.9999305
135 42 30	0.9999493	0.9999449	0.9999407	0.9999367	0.9999329
135 45 00	0.9999524	0.9999478	0.9999435	0.9999394	0.9999354
135 47 30	0.9999555	0.9999508	0.9999464	0.9999421	0.9999380
135 50 00	0.9999588	0.9999540	0.9999494	0.9999449	0.9999407
135 52 30	0.9999621	0.9999572	0.9999524	0.9999479	0.9999435
135 55 00	0.9999656	0.9999605	0.9999556	0.9999509	0.9999464
135 57 30	0.9999691	0.9999639	0.9999588	0.9999540	0.9999494
136 00 00	0.9999728	0.9999674	0.9999622	0.9999572	0.9999524
136 02 30	0.9999765	0.9999709	0.9999656	0.9999605	0.9999556
136 05 00	0.9999803	0.9999746	0.9999691	0.9999639	0.9999588
136 07 30	0.9999842	0.9999784	0.9999728	0.9999674	0.9999622
136 10 00	0.9999882	0.9999822	0.9999765	0.9999709	0.9999656
136 12 30	0.9999923	0.9999862	0.9999803	0.9999746	0.9999691
136 15 00	0.9999964	0.9999902	0.9999842	0.9999783	0.9999727
136 17 30	1.0000007	0.9999943	0.9999881	0.9999821	0.9999764
136 20 00	1.0000051	0.9999985	0.9999922	0.9999861	0.9999802
136 22 30	1.0000095	1.0000028	0.9999963	0.9999901	0.9999840
136 25 00	1.0000140	1.0000072	1.0000006	0.9999942	0.9999880
136 27 30	1.0000187	1.0000117	1.0000049	0.9999984	0.9999920
136 30 00	1.0000234	1.0000163	1.0000094	1.0000027	0.9999962
136 32 30	1.0000282	1.0000209	1.0000139	1.0000070	1.0000004
136 35 00	1.0000331	1.0000257	1.0000185	1.0000115	1.0000047
136 37 30	1.0000381	1.0000305	1.0000232	1.0000160	1.0000091
136 40 00	1.0000431	1.0000354	1.0000279	1.0000207	1.0000136
136 42 30	1.0000483	1.0000404	1.0000328	1.0000254	1.0000182
136 45 00	1.0000535	1.0000455	1.0000378	1.0000302	1.0000229
136 47 30	1.0000589	1.0000507	1.0000428	1.0000351	1.0000276
136 50 00	1.0000643	1.0000560	1.0000479	1.0000401	1.0000325
136 52 30	1.0000698	1.0000614	1.0000532	1.0000452	1.0000374
136 55 00	1.0000754	1.0000668	1.0000585	1.0000503	1.0000424
136 57 30	1.0000811	1.0000724	1.0000639	1.0000556	1.0000475
137 00 00	1.0000869	1.0000780	1.0000694	1.0000609	1.0000527

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	57 40 00	57 42 30	57 45 00	57 47 30	57 50 00
132 00 00	1 24 11.4	1 24 13.8	1 24 16.2	1 24 18.7	1 24 21.3
132 02 30	1 22 05.5	1 22 07.9	1 22 10.3	1 22 12.8	1 22 15.3
132 05 00	1 19 59.7	1 20 02.0	1 20 04.4	1 20 06.8	1 20 09.3
132 07 30	1 17 53.8	1 17 56.1	1 17 58.4	1 18 00.8	1 18 03.3
132 10 00	1 15 47.9	1 15 50.2	1 15 52.5	1 15 54.8	1 15 57.2
132 12 30	1 13 42.0	1 13 44.2	1 13 46.5	1 13 48.8	1 13 51.2
132 15 00	1 11 36.1	1 11 38.3	1 11 40.5	1 11 42.8	1 11 45.1
132 17 30	1 09 30.2	1 09 32.3	1 09 34.5	1 09 36.8	1 09 39.0
132 20 00	1 07 24.3	1 07 26.4	1 07 28.5	1 07 30.7	1 07 32.9
132 22 30	1 05 18.3	1 05 20.4	1 05 22.5	1 05 24.6	1 05 26.8
132 25 00	1 03 12.3	1 03 14.4	1 03 16.4	1 03 18.5	1 03 20.7
132 27 30	1 01 06.4	1 01 08.3	1 01 10.4	1 01 12.4	1 01 14.6
132 30 00	0 59 00.4	0 59 02.3	0 59 04.3	0 59 06.3	0 59 08.4
132 32 30	0 56 54.4	0 56 56.3	0 56 58.2	0 57 00.2	0 57 02.3
132 35 00	0 54 48.3	0 54 50.2	0 54 52.1	0 54 54.1	0 54 56.1
132 37 30	0 52 42.3	0 52 44.1	0 52 46.0	0 52 47.9	0 52 49.9
132 40 00	0 50 36.2	0 50 38.0	0 50 39.9	0 50 41.7	0 50 43.7
132 42 30	0 48 30.2	0 48 31.9	0 48 33.7	0 48 35.6	0 48 37.5
132 45 00	0 46 24.1	0 46 25.8	0 46 27.6	0 46 29.4	0 46 31.2
132 47 30	0 44 18.0	0 44 19.7	0 44 21.4	0 44 23.2	0 44 25.0
132 50 00	0 42 11.9	0 42 13.5	0 42 15.2	0 42 16.9	0 42 18.7
132 52 30	0 40 05.8	0 40 07.4	0 40 09.0	0 40 10.7	0 40 12.4
132 55 00	0 37 59.6	0 38 01.2	0 38 02.8	0 38 04.4	0 38 06.1
132 57 30	0 35 53.5	0 35 55.0	0 35 56.6	0 35 58.2	0 35 59.8
133 00 00	0 33 47.3	0 33 48.8	0 33 50.3	0 33 51.9	0 33 53.5
133 02 30	0 31 41.1	0 31 42.6	0 31 44.1	0 31 45.6	0 31 47.2
133 05 00	0 29 34.9	0 29 36.3	0 29 37.8	0 29 39.3	0 29 40.8
133 07 30	0 27 28.7	0 27 30.1	0 27 31.5	0 27 33.0	0 27 34.5
133 10 00	0 25 22.5	0 25 23.8	0 25 25.2	0 25 26.6	0 25 28.1
133 12 30	0 23 16.3	0 23 17.6	0 23 18.9	0 23 20.3	0 23 21.7
133 15 00	0 21 10.0	0 21 11.3	0 21 12.6	0 21 13.9	0 21 15.3
133 17 30	0 19 03.8	0 19 05.0	0 19 06.2	0 19 07.5	0 19 08.9
133 20 00	0 16 57.5	0 16 58.6	0 16 59.9	0 17 01.1	0 17 02.4
133 22 30	0 14 51.2	0 14 52.3	0 14 53.5	0 14 54.7	0 14 56.0
133 25 00	0 12 44.9	0 12 46.0	0 12 47.1	0 12 48.3	0 12 49.5
133 27 30	0 10 38.5	0 10 39.6	0 10 40.7	0 10 41.9	0 10 43.1
133 30 00	0 08 32.2	0 08 33.2	0 08 34.3	0 08 35.4	0 08 36.6
133 32 30	0 06 25.8	0 06 26.8	0 06 27.8	0 06 28.9	0 06 30.1
133 35 00	0 04 19.5	0 04 20.4	0 04 21.4	0 04 22.4	0 04 23.5
133 37 30	0 02 13.1	0 02 14.0	0 02 14.9	0 02 15.9	0 02 17.0
133 40 00	0 00 06.7	0 00 07.6	0 00 08.5	0 00 09.4	0 00 10.5
133 42 30	- 0 01 59.7	- 0 01 58.9	- 0 01 58.0	- 0 01 57.1	- 0 01 56.1
133 45 00	- 0 04 06.2	- 0 04 05.4	- 0 04 04.5	- 0 04 03.6	- 0 04 02.7
133 47 30	- 0 06 12.6	- 0 06 11.8	- 0 06 11.0	- 0 06 10.2	- 0 06 09.3
133 50 00	- 0 08 19.1	- 0 08 18.3	- 0 08 17.6	- 0 08 16.8	- 0 08 15.9
133 52 30	- 0 10 25.5	- 0 10 24.9	- 0 10 24.1	- 0 10 23.3	- 0 10 22.5
133 55 00	- 0 12 32.0	- 0 12 31.4	- 0 12 30.7	- 0 12 29.9	- 0 12 29.2
133 57 30	- 0 14 38.5	- 0 14 37.9	- 0 14 37.3	- 0 14 36.6	- 0 14 35.8
134 00 00	- 0 16 45.0	- 0 16 44.5	- 0 16 43.9	- 0 16 43.2	- 0 16 42.5
134 02 30	- 0 18 51.6	- 0 18 51.0	- 0 18 50.5	- 0 18 49.8	- 0 18 49.2
134 05 00	- 0 20 58.1	- 0 20 57.6	- 0 20 57.1	- 0 20 56.5	- 0 20 55.9
134 07 30	- 0 23 04.7	- 0 23 04.2	- 0 23 03.7	- 0 23 03.2	- 0 23 02.6
134 10 00	- 0 25 11.3	- 0 25 10.8	- 0 25 10.4	- 0 25 09.9	- 0 25 09.3
134 12 30	- 0 27 17.8	- 0 27 17.5	- 0 27 17.0	- 0 27 16.6	- 0 27 16.0
134 15 00	- 0 29 24.5	- 0 29 24.1	- 0 29 23.7	- 0 29 23.3	- 0 29 22.8
134 17 30	- 0 31 31.1	- 0 31 30.8	- 0 31 30.4	- 0 31 30.0	- 0 31 29.6
134 20 00	- 0 33 37.7	- 0 33 37.4	- 0 33 37.1	- 0 33 36.8	- 0 33 36.3
134 22 30	- 0 35 44.4	- 0 35 44.1	- 0 35 43.9	- 0 35 43.5	- 0 35 43.1
134 25 00	- 0 37 51.0	- 0 37 50.8	- 0 37 50.6	- 0 37 50.3	- 0 37 50.0
134 27 30	- 0 39 57.7	- 0 39 57.6	- 0 39 57.4	- 0 39 57.1	- 0 39 56.8
134 30 00	- 0 42 04.4	- 0 42 04.3	- 0 42 04.1	- 0 42 03.9	- 0 42 03.6

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\,[-.6(x_2-x_1)+.8(y_2-y_1)][.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	57 40 00	57 42 30	57 45 00	57 47 30	57 50 00
132 00 00	1.0000911	1.0000994	1.0001079	1.0001166	1.0001255
132 02 30	1.0000849	1.0000931	1.0001015	1.0001101	1.0001188
132 05 00	1.0000789	1.0000869	1.0000952	1.0001036	1.0001122
132 07 30	1.0000729	1.0000809	1.0000890	1.0000973	1.0001058
132 10 00	1.0000671	1.0000749	1.0000829	1.0000911	1.0000995
132 12 30	1.0000614	1.0000690	1.0000769	1.0000850	1.0000932
132 15 00	1.0000557	1.0000633	1.0000710	1.0000790	1.0000871
132 17 30	1.0000502	1.0000576	1.0000652	1.0000730	1.0000810
132 20 00	1.0000448	1.0000521	1.0000596	1.0000672	1.0000751
132 22 30	1.0000394	1.0000466	1.0000540	1.0000615	1.0000693
132 25 00	1.0000342	1.0000413	1.0000485	1.0000559	1.0000635
132 27 30	1.0000291	1.0000360	1.0000431	1.0000504	1.0000579
132 30 00	1.0000241	1.0000309	1.0000378	1.0000450	1.0000524
132 32 30	1.0000191	1.0000258	1.0000327	1.0000397	1.0000469
132 35 00	1.0000143	1.0000209	1.0000276	1.0000345	1.0000416
132 37 30	1.0000096	1.0000160	1.0000226	1.0000294	1.0000364
132 40 00	1.0000050	1.0000113	1.0000177	1.0000244	1.0000312
132 42 30	1.0000005	1.0000066	1.0000130	1.0000195	1.0000262
132 45 00	0.9999961	1.0000021	1.0000083	1.0000147	1.0000213
132 47 30	0.9999918	0.9999977	1.0000037	1.0000100	1.0000164
132 50 00	0.9999876	0.9999933	0.9999993	1.0000054	1.0000117
132 52 30	0.9999834	0.9999891	0.9999949	1.0000009	1.0000071
132 55 00	0.9999794	0.9999849	0.9999906	0.9999965	1.0000026
132 57 30	0.9999755	0.9999809	0.9999865	0.9999922	0.9999981
133 00 00	0.9999717	0.9999770	0.9999824	0.9999880	0.9999938
133 02 30	0.9999680	0.9999731	0.9999784	0.9999839	0.9999896
133 05 00	0.9999644	0.9999694	0.9999746	0.9999799	0.9999854
133 07 30	0.9999609	0.9999657	0.9999708	0.9999760	0.9999814
133 10 00	0.9999575	0.9999622	0.9999671	0.9999722	0.9999775
133 12 30	0.9999542	0.9999588	0.9999635	0.9999685	0.9999737
133 15 00	0.9999510	0.9999554	0.9999601	0.9999649	0.9999699
133 17 30	0.9999479	0.9999522	0.9999567	0.9999614	0.9999663
133 20 00	0.9999448	0.9999490	0.9999534	0.9999580	0.9999628
133 22 30	0.9999419	0.9999460	0.9999502	0.9999547	0.9999593
133 25 00	0.9999391	0.9999431	0.9999472	0.9999515	0.9999560
133 27 30	0.9999364	0.9999402	0.9999442	0.9999484	0.9999527
133 30 00	0.9999338	0.9999375	0.9999413	0.9999454	0.9999496
133 32 30	0.9999313	0.9999348	0.9999385	0.9999424	0.9999465
133 35 00	0.9999289	0.9999323	0.9999359	0.9999396	0.9999436
133 37 30	0.9999265	0.9999298	0.9999333	0.9999369	0.9999407
133 40 00	0.9999243	0.9999275	0.9999308	0.9999343	0.9999380
133 42 30	0.9999222	0.9999252	0.9999284	0.9999318	0.9999353
133 45 00	0.9999202	0.9999230	0.9999261	0.9999293	0.9999328
133 47 30	0.9999182	0.9999210	0.9999239	0.9999270	0.9999303
133 50 00	0.9999164	0.9999190	0.9999218	0.9999248	0.9999280
133 52 30	0.9999147	0.9999172	0.9999198	0.9999227	0.9999257
133 55 00	0.9999130	0.9999154	0.9999179	0.9999206	0.9999235
133 57 30	0.9999115	0.9999137	0.9999161	0.9999187	0.9999215
134 00 00	0.9999101	0.9999121	0.9999144	0.9999168	0.9999195
134 02 30	0.9999087	0.9999107	0.9999128	0.9999151	0.9999176
134 05 00	0.9999075	0.9999093	0.9999113	0.9999134	0.9999158
134 07 30	0.9999063	0.9999080	0.9999098	0.9999119	0.9999141
134 10 00	0.9999053	0.9999068	0.9999085	0.9999104	0.9999125
134 12 30	0.9999043	0.9999057	0.9999073	0.9999091	0.9999110
134 15 00	0.9999035	0.9999047	0.9999062	0.9999078	0.9999096
134 17 30	0.9999027	0.9999038	0.9999051	0.9999066	0.9999083
134 20 00	0.9999020	0.9999030	0.9999042	0.9999056	0.9999071
134 22 30	0.9999014	0.9999023	0.9999033	0.9999046	0.9999060
134 25 00	0.9999010	0.9999017	0.9999026	0.9999037	0.9999050
134 27 30	0.9999006	0.9999012	0.9999019	0.9999029	0.9999041
134 30 00	0.9999003	0.9999007	0.9999014	0.9999022	0.9999032

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	57 40 00	57 42 30	57 45 00	57 47 30	57 50 00
134 30 00	- 0 42 04.4	- 0 42 04.3	- 0 42 04.1	- 0 42 03.9	- 0 42 03.6
134 32 30	- 0 44 11.1	- 0 44 11.0	- 0 44 10.9	- 0 44 10.7	- 0 44 10.5
134 35 00	- 0 46 17.9	- 0 46 17.8	- 0 46 17.7	- 0 46 17.6	- 0 46 17.4
134 37 30	- 0 48 24.6	- 0 48 24.6	- 0 48 24.5	- 0 48 24.4	- 0 48 24.2
134 40 00	- 0 50 31.4	- 0 50 31.4	- 0 50 31.4	- 0 50 31.3	- 0 50 31.2
134 42 30	- 0 52 38.1	- 0 52 38.2	- 0 52 38.2	- 0 52 38.2	- 0 52 38.1
134 45 00	- 0 54 44.9	- 0 54 45.0	- 0 54 45.1	- 0 54 45.1	- 0 54 45.0
134 47 30	- 0 56 51.7	- 0 56 51.9	- 0 56 51.9	- 0 56 52.0	- 0 56 52.0
134 50 00	- 0 58 58.5	- 0 58 58.7	- 0 58 58.8	- 0 58 58.9	- 0 58 58.9
134 52 30	- 1 01 05.4	- 1 01 05.6	- 1 01 05.7	- 1 01 05.8	- 1 01 05.9
134 55 00	- 1 03 12.2	- 1 03 12.5	- 1 03 12.7	- 1 03 12.8	- 1 03 12.9
134 57 30	- 1 05 19.1	- 1 05 19.4	- 1 05 19.6	- 1 05 19.8	- 1 05 19.9
135 00 00	- 1 07 26.0	- 1 07 26.3	- 1 07 26.5	- 1 07 26.8	- 1 07 26.9
135 02 30	- 1 09 32.9	- 1 09 33.2	- 1 09 33.5	- 1 09 33.8	- 1 09 34.0
135 05 00	- 1 11 39.8	- 1 11 40.2	- 1 11 40.5	- 1 11 40.8	- 1 11 41.0
135 07 30	- 1 13 46.7	- 1 13 47.1	- 1 13 47.5	- 1 13 47.8	- 1 13 48.1
135 10 00	- 1 15 53.6	- 1 15 54.1	- 1 15 54.5	- 1 15 54.9	- 1 15 55.2
135 12 30	- 1 18 00.6	- 1 18 01.1	- 1 18 01.5	- 1 18 01.9	- 1 18 02.3
135 15 00	- 1 20 07.6	- 1 20 08.1	- 1 20 08.6	- 1 20 09.0	- 1 20 09.4
135 17 30	- 1 22 14.5	- 1 22 15.1	- 1 22 15.6	- 1 22 16.1	- 1 22 16.5
135 20 00	- 1 24 21.5	- 1 24 22.2	- 1 24 22.7	- 1 24 23.2	- 1 24 23.7
135 22 30	- 1 26 28.6	- 1 26 29.2	- 1 26 29.8	- 1 26 30.3	- 1 26 30.8
135 25 00	- 1 28 35.6	- 1 28 36.3	- 1 28 36.9	- 1 28 37.5	- 1 28 38.0
135 27 30	- 1 30 42.6	- 1 30 43.4	- 1 30 44.0	- 1 30 44.6	- 1 30 45.2
135 30 00	- 1 32 49.7	- 1 32 50.5	- 1 32 51.2	- 1 32 51.8	- 1 32 52.4
135 32 30	- 1 34 56.8	- 1 34 57.6	- 1 34 58.3	- 1 34 59.0	- 1 34 59.6
135 35 00	- 1 37 03.9	- 1 37 04.7	- 1 37 05.5	- 1 37 06.2	- 1 37 06.8
135 37 30	- 1 39 11.0	- 1 39 11.8	- 1 39 12.7	- 1 39 13.4	- 1 39 14.1
135 40 00	- 1 41 18.1	- 1 41 19.0	- 1 41 19.8	- 1 41 20.6	- 1 41 21.4
135 42 30	- 1 43 25.3	- 1 43 26.2	- 1 43 27.1	- 1 43 27.9	- 1 43 28.6
135 45 00	- 1 45 32.4	- 1 45 33.4	- 1 45 34.3	- 1 45 35.1	- 1 45 35.9
135 47 30	- 1 47 39.6	- 1 47 40.6	- 1 47 41.5	- 1 47 42.4	- 1 47 43.3
135 50 00	- 1 49 46.8	- 1 49 47.8	- 1 49 48.8	- 1 49 49.7	- 1 49 50.6
135 52 30	- 1 51 54.0	- 1 51 55.0	- 1 51 56.1	- 1 51 57.0	- 1 51 57.9
135 55 00	- 1 54 01.2	- 1 54 02.3	- 1 54 03.3	- 1 54 04.3	- 1 54 05.3
135 57 30	- 1 56 08.4	- 1 56 09.6	- 1 56 10.7	- 1 56 11.7	- 1 56 12.7
136 00 00	- 1 58 15.7	- 1 58 16.9	- 1 58 18.0	- 1 58 19.0	- 1 58 20.0
136 02 30	- 2 00 23.0	- 2 00 24.2	- 2 00 25.3	- 2 00 26.4	- 2 00 27.5
136 05 00	- 2 02 30.2	- 2 02 31.5	- 2 02 32.7	- 2 02 33.8	- 2 02 34.9
136 07 30	- 2 04 37.5	- 2 04 38.8	- 2 04 40.0	- 2 04 41.2	- 2 04 42.3
136 10 00	- 2 06 44.8	- 2 06 46.2	- 2 06 47.4	- 2 06 48.6	- 2 06 49.8
136 12 30	- 2 08 52.2	- 2 08 53.5	- 2 08 54.8	- 2 08 56.0	- 2 08 57.2
136 15 00	- 2 10 59.5	- 2 11 00.9	- 2 11 02.2	- 2 11 03.5	- 2 11 04.7
136 17 30	- 2 13 06.9	- 2 13 08.3	- 2 13 09.7	- 2 13 11.0	- 2 13 12.2
136 20 00	- 2 15 14.3	- 2 15 15.7	- 2 15 17.1	- 2 15 18.4	- 2 15 19.7
136 22 30	- 2 17 21.7	- 2 17 23.1	- 2 17 24.6	- 2 17 25.9	- 2 17 27.3
136 25 00	- 2 19 29.1	- 2 19 30.6	- 2 19 32.0	- 2 19 33.4	- 2 19 34.8
136 27 30	- 2 21 36.5	- 2 21 38.0	- 2 21 39.5	- 2 21 41.0	- 2 21 42.4
136 30 00	- 2 23 43.9	- 2 23 45.5	- 2 23 47.0	- 2 23 48.5	- 2 23 49.9
136 32 30	- 2 25 51.4	- 2 25 53.0	- 2 25 54.6	- 2 25 56.1	- 2 25 57.5
136 35 00	- 2 27 58.9	- 2 28 00.5	- 2 28 02.1	- 2 28 03.6	- 2 28 05.1
136 37 30	- 2 30 06.3	- 2 30 08.0	- 2 30 09.7	- 2 30 11.2	- 2 30 12.8
136 40 00	- 2 32 13.8	- 2 32 15.6	- 2 32 17.2	- 2 32 18.8	- 2 32 20.4
136 42 30	- 2 34 21.4	- 2 34 23.1	- 2 34 24.8	- 2 34 26.5	- 2 34 28.1
136 45 00	- 2 36 28.9	- 2 36 30.7	- 2 36 32.4	- 2 36 34.1	- 2 36 35.7
136 47 30	- 2 38 36.4	- 2 38 38.3	- 2 38 40.0	- 2 38 41.7	- 2 38 43.4
136 50 00	- 2 40 44.0	- 2 40 45.9	- 2 40 47.7	- 2 40 49.4	- 2 40 51.1
136 52 30	- 2 42 51.6	- 2 42 53.5	- 2 42 55.3	- 2 42 57.1	- 2 42 58.8
136 55 00	- 2 44 59.2	- 2 45 01.1	- 2 45 03.0	- 2 45 04.8	- 2 45 06.6
136 57 30	- 2 47 06.8	- 2 47 08.8	- 2 47 10.7	- 2 47 12.5	- 2 47 14.3
137 00 00	- 2 49 14.4	- 2 49 16.4	- 2 49 18.4	- 2 49 20.2	- 2 49 22.1

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\,[-.6(x_2-x_1)+.8(y_2-y_1)][.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	57 40 00	57 42 30	57 45 00	57 47 30	57 50 00
134 30 00	0.9999003	0.9999007	0.9999014	0.9999022	0.9999032
134 32 30	0.9999001	0.9999004	0.9999009	0.9999016	0.9999025
134 35 00	0.9999000	0.9999002	0.9999005	0.9999011	0.9999019
134 37 30	0.9999000	0.9999000	0.9999003	0.9999007	0.9999013
134 40 00	0.9999001	0.9999000	0.9999001	0.9999004	0.9999009
134 42 30	0.9999003	0.9999001	0.9999000	0.9999002	0.9999005
134 45 00	0.9999006	0.9999002	0.9999000	0.9999000	0.9999002
134 47 30	0.9999010	0.9999004	0.9999001	0.9999000	0.9999001
134 50 00	0.9999014	0.9999008	0.9999003	0.9999001	0.9999000
134 52 30	0.9999020	0.9999012	0.9999006	0.9999002	0.9999000
134 55 00	0.9999027	0.9999017	0.9999010	0.9999005	0.9999001
134 57 30	0.9999034	0.9999023	0.9999015	0.9999008	0.9999003
135 00 00	0.9999043	0.9999031	0.9999021	0.9999012	0.9999006
135 02 30	0.9999052	0.9999039	0.9999027	0.9999018	0.9999010
135 05 00	0.9999062	0.9999048	0.9999035	0.9999024	0.9999015
135 07 30	0.9999074	0.9999057	0.9999043	0.9999031	0.9999021
135 10 00	0.9999086	0.9999068	0.9999053	0.9999039	0.9999028
135 12 30	0.9999099	0.9999080	0.9999063	0.9999048	0.9999035
135 15 00	0.9999113	0.9999093	0.9999074	0.9999058	0.9999044
135 17 30	0.9999128	0.9999106	0.9999087	0.9999069	0.9999053
135 20 00	0.9999144	0.9999121	0.9999100	0.9999081	0.9999064
135 22 30	0.9999161	0.9999136	0.9999114	0.9999093	0.9999075
135 25 00	0.9999179	0.9999153	0.9999129	0.9999107	0.9999087
135 27 30	0.9999198	0.9999170	0.9999145	0.9999122	0.9999100
135 30 00	0.9999217	0.9999188	0.9999162	0.9999137	0.9999114
135 32 30	0.9999238	0.9999208	0.9999179	0.9999153	0.9999129
135 35 00	0.9999259	0.9999228	0.9999198	0.9999171	0.9999145
135 37 30	0.9999282	0.9999249	0.9999218	0.9999189	0.9999162
135 40 00	0.9999305	0.9999271	0.9999238	0.9999208	0.9999180
135 42 30	0.9999329	0.9999293	0.9999260	0.9999228	0.9999198
135 45 00	0.9999354	0.9999317	0.9999282	0.9999249	0.9999218
135 47 30	0.9999380	0.9999342	0.9999305	0.9999271	0.9999238
135 50 00	0.9999407	0.9999367	0.9999329	0.9999294	0.9999260
135 52 30	0.9999435	0.9999394	0.9999355	0.9999317	0.9999282
135 55 00	0.9999464	0.9999421	0.9999380	0.9999342	0.9999305
135 57 30	0.9999494	0.9999450	0.9999407	0.9999367	0.9999329
136 00 00	0.9999524	0.9999479	0.9999435	0.9999394	0.9999354
136 02 30	0.9999556	0.9999509	0.9999464	0.9999421	0.9999380
136 05 00	0.9999588	0.9999540	0.9999493	0.9999449	0.9999407
136 07 30	0.9999622	0.9999572	0.9999524	0.9999478	0.9999435
136 10 00	0.9999656	0.9999604	0.9999555	0.9999508	0.9999463
136 12 30	0.9999691	0.9999638	0.9999588	0.9999539	0.9999493
136 15 00	0.9999727	0.9999673	0.9999621	0.9999571	0.9999523
136 17 30	0.9999764	0.9999708	0.9999655	0.9999603	0.9999554
136 20 00	0.9999802	0.9999745	0.9999690	0.9999637	0.9999586
136 22 30	0.9999840	0.9999782	0.9999726	0.9999671	0.9999619
136 25 00	0.9999880	0.9999820	0.9999762	0.9999707	0.9999653
136 27 30	0.9999920	0.9999859	0.9999800	0.9999743	0.9999688
136 30 00	0.9999962	0.9999899	0.9999838	0.9999780	0.9999723
136 32 30	1.0000004	0.9999940	0.9999878	0.9999818	0.9999760
136 35 00	1.0000047	0.9999982	0.9999918	0.9999857	0.9999797
136 37 30	1.0000091	1.0000024	0.9999959	0.9999896	0.9999836
136 40 00	1.0000136	1.0000068	1.0000001	0.9999937	0.9999875
136 42 30	1.0000182	1.0000112	1.0000044	0.9999978	0.9999915
136 45 00	1.0000229	1.0000157	1.0000088	1.0000021	0.9999956
136 47 30	1.0000276	1.0000203	1.0000133	1.0000064	0.9999998
136 50 00	1.0000325	1.0000250	1.0000178	1.0000108	1.0000040
136 52 30	1.0000374	1.0000298	1.0000225	1.0000153	1.0000084
136 55 00	1.0000424	1.0000347	1.0000272	1.0000199	1.0000128
136 57 30	1.0000475	1.0000396	1.0000320	1.0000246	1.0000174
137 00 00	1.0000527	1.0000447	1.0000369	1.0000293	1.0000220

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	57 50 00	57 52 30	57 55 00	57 57 30	58 00 00
132 00 00	1 24 21.3	1 24 23.9	1 24 26.6	1 24 29.3	1 24 32.1
132 02 30	1 22 15.3	1 22 17.9	1 22 20.5	1 22 23.2	1 22 25.9
132 05 00	1 20 09.3	1 20 11.8	1 20 14.4	1 20 17.1	1 20 19.8
132 07 30	1 18 03.3	1 18 05.8	1 18 08.3	1 18 10.9	1 18 13.6
132 10 00	1 15 57.2	1 15 59.7	1 16 02.2	1 16 04.8	1 16 07.4
132 12 30	1 13 51.2	1 13 53.6	1 13 56.1	1 13 58.6	1 14 01.2
132 15 00	1 11 45.1	1 11 47.5	1 11 49.9	1 11 52.4	1 11 55.0
132 17 30	1 09 39.0	1 09 41.4	1 09 43.8	1 09 46.2	1 09 48.7
132 20 00	1 07 32.9	1 07 35.2	1 07 37.6	1 07 40.0	1 07 42.5
132 22 30	1 05 26.8	1 05 29.1	1 05 31.4	1 05 33.8	1 05 36.2
132 25 00	1 03 20.7	1 03 22.9	1 03 25.2	1 03 27.5	1 03 29.9
132 27 30	1 01 14.6	1 01 16.8	1 01 19.0	1 01 21.3	1 01 23.6
132 30 00	0 59 08.4	0 59 10.6	0 59 12.8	0 59 15.0	0 59 17.3
132 32 30	0 57 02.3	0 57 04.4	0 57 06.5	0 57 08.7	0 57 11.0
132 35 00	0 54 56.1	0 54 58.2	0 55 00.3	0 55 02.4	0 55 04.7
132 37 30	0 52 49.9	0 52 51.9	0 52 54.0	0 52 56.1	0 52 58.3
132 40 00	0 50 43.7	0 50 45.7	0 50 47.7	0 50 49.8	0 50 52.0
132 42 30	0 48 37.5	0 48 39.4	0 48 41.4	0 48 43.5	0 48 45.6
132 45 00	0 46 31.2	0 46 33.1	0 46 35.1	0 46 37.1	0 46 39.2
132 47 30	0 44 25.0	0 44 26.9	0 44 28.8	0 44 30.8	0 44 32.8
132 50 00	0 42 18.7	0 42 20.6	0 42 22.4	0 42 24.4	0 42 26.4
132 52 30	0 40 12.4	0 40 14.2	0 40 16.1	0 40 18.0	0 40 19.9
132 55 00	0 38 06.1	0 38 07.9	0 38 09.7	0 38 11.6	0 38 13.5
132 57 30	0 35 59.8	0 36 01.6	0 36 03.3	0 36 05.2	0 36 07.0
133 00 00	0 33 53.5	0 33 55.2	0 33 56.9	0 33 58.7	0 34 00.6
133 02 30	0 31 47.2	0 31 48.8	0 31 50.5	0 31 52.3	0 31 54.1
133 05 00	0 29 40.8	0 29 42.4	0 29 44.1	0 29 45.8	0 29 47.6
133 07 30	0 27 34.5	0 27 36.0	0 27 37.7	0 27 39.3	0 27 41.1
133 10 00	0 25 28.1	0 25 29.6	0 25 31.2	0 25 32.8	0 25 34.5
133 12 30	0 23 21.7	0 23 23.2	0 23 24.7	0 23 26.3	0 23 28.0
133 15 00	0 21 15.3	0 21 16.8	0 21 18.3	0 21 19.8	0 21 21.4
133 17 30	0 19 08.9	0 19 10.3	0 19 11.8	0 19 13.3	0 19 14.8
133 20 00	0 17 02.4	0 17 03.8	0 17 05.2	0 17 06.7	0 17 08.3
133 22 30	0 14 56.0	0 14 57.3	0 14 58.7	0 15 00.2	0 15 01.7
133 25 00	0 12 49.5	0 12 50.8	0 12 52.2	0 12 53.6	0 12 55.0
133 27 30	0 10 43.1	0 10 44.3	0 10 45.6	0 10 47.0	0 10 48.4
133 30 00	0 08 36.6	0 08 37.8	0 08 39.1	0 08 40.4	0 08 41.8
133 32 30	0 06 30.1	0 06 31.2	0 06 32.5	0 06 33.8	0 06 35.1
133 35 00	0 04 23.5	0 04 24.7	0 04 25.9	0 04 27.1	0 04 28.4
133 37 30	0 02 17.0	0 02 18.1	0 02 19.3	0 02 20.5	0 02 21.8
133 40 00	0 00 10.5	0 00 11.5	0 00 12.6	0 00 13.8	0 00 15.1
133 42 30	- 0 01 56.1	- 0 01 55.1	- 0 01 54.0	- 0 01 52.9	- 0 01 51.7
133 45 00	- 0 04 02.7	- 0 04 01.7	- 0 04 00.6	- 0 03 59.5	- 0 03 58.4
133 47 30	- 0 06 09.3	- 0 06 08.3	- 0 06 07.3	- 0 06 06.3	- 0 06 05.1
133 50 00	- 0 08 15.9	- 0 08 15.0	- 0 08 14.0	- 0 08 13.0	- 0 08 11.9
133 52 30	- 0 10 22.5	- 0 10 21.6	- 0 10 20.7	- 0 10 19.7	- 0 10 18.7
133 55 00	- 0 12 29.2	- 0 12 28.3	- 0 12 27.4	- 0 12 26.5	- 0 12 25.5
133 57 30	- 0 14 35.8	- 0 14 35.0	- 0 14 34.1	- 0 14 33.2	- 0 14 32.3
134 00 00	- 0 16 42.5	- 0 16 41.7	- 0 16 40.9	- 0 16 40.0	- 0 16 39.1
134 02 30	- 0 18 49.2	- 0 18 48.4	- 0 18 47.6	- 0 18 46.8	- 0 18 45.9
134 05 00	- 0 20 55.9	- 0 20 55.2	- 0 20 54.4	- 0 20 53.6	- 0 20 52.7
134 07 30	- 0 23 02.6	- 0 23 01.9	- 0 23 01.2	- 0 23 00.4	- 0 22 59.6
134 10 00	- 0 25 09.3	- 0 25 08.7	- 0 25 08.0	- 0 25 07.3	- 0 25 06.5
134 12 30	- 0 27 16.0	- 0 27 15.4	- 0 27 14.8	- 0 27 14.1	- 0 27 13.4
134 15 00	- 0 29 22.8	- 0 29 22.2	- 0 29 21.6	- 0 29 21.0	- 0 29 20.3
134 17 30	- 0 31 29.6	- 0 31 29.0	- 0 31 28.5	- 0 31 27.9	- 0 31 27.2
134 20 00	- 0 33 36.3	- 0 33 35.9	- 0 33 35.3	- 0 33 34.8	- 0 33 34.1
134 22 30	- 0 35 43.1	- 0 35 42.7	- 0 35 42.2	- 0 35 41.7	- 0 35 41.1
134 25 00	- 0 37 50.0	- 0 37 49.6	- 0 37 49.1	- 0 37 48.6	- 0 37 48.0
134 27 30	- 0 39 56.8	- 0 39 56.4	- 0 39 56.0	- 0 39 55.5	- 0 39 55.0
134 30 00	- 0 42 03.6	- 0 42 03.3	- 0 42 02.9	- 0 42 02.5	- 0 42 02.0

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	57 50 00	57 52 30	57 55 00	57 57 30	58 00 00
132 00 00	1.0001255	1.0001345	1.0001437	1.0001531	1.0001627
132 02 30	1.0001188	1.0001277	1.0001368	1.0001461	1.0001555
132 05 00	1.0001122	1.0001210	1.0001300	1.0001392	1.0001485
132 07 30	1.0001058	1.0001145	1.0001233	1.0001323	1.0001415
132 10 00	1.0000995	1.0001080	1.0001167	1.0001256	1.0001347
132 12 30	1.0000932	1.0001016	1.0001102	1.0001190	1.0001279
132 15 00	1.0000871	1.0000954	1.0001038	1.0001125	1.0001213
132 17 30	1.0000810	1.0000892	1.0000975	1.0001060	1.0001147
132 20 00	1.0000751	1.0000831	1.0000913	1.0000997	1.0001083
132 22 30	1.0000693	1.0000772	1.0000852	1.0000935	1.0001020
132 25 00	1.0000635	1.0000713	1.0000793	1.0000874	1.0000957
132 27 30	1.0000579	1.0000655	1.0000734	1.0000814	1.0000896
132 30 00	1.0000524	1.0000599	1.0000676	1.0000755	1.0000835
132 32 30	1.0000469	1.0000543	1.0000619	1.0000697	1.0000776
132 35 00	1.0000416	1.0000489	1.0000563	1.0000639	1.0000718
132 37 30	1.0000364	1.0000435	1.0000508	1.0000583	1.0000660
132 40 00	1.0000312	1.0000382	1.0000454	1.0000528	1.0000604
132 42 30	1.0000262	1.0000331	1.0000402	1.0000474	1.0000548
132 45 00	1.0000213	1.0000280	1.0000350	1.0000421	1.0000494
132 47 30	1.0000164	1.0000231	1.0000299	1.0000369	1.0000441
132 50 00	1.0000117	1.0000182	1.0000249	1.0000318	1.0000388
132 52 30	1.0000071	1.0000135	1.0000200	1.0000268	1.0000337
132 55 00	1.0000026	1.0000088	1.0000152	1.0000218	1.0000286
132 57 30	0.9999981	1.0000042	1.0000105	1.0000170	1.0000237
133 00 00	0.9999938	0.9999998	1.0000060	1.0000123	1.0000189
133 02 30	0.9999896	0.9999954	1.0000015	1.0000077	1.0000141
133 05 00	0.9999854	0.9999912	0.9999971	1.0000032	1.0000095
133 07 30	0.9999814	0.9999870	0.9999928	0.9999988	1.0000049
133 10 00	0.9999775	0.9999830	0.9999886	0.9999944	1.0000005
133 12 30	0.9999737	0.9999790	0.9999845	0.9999902	0.9999961
133 15 00	0.9999699	0.9999751	0.9999805	0.9999861	0.9999919
133 17 30	0.9999663	0.9999714	0.9999766	0.9999821	0.9999877
133 20 00	0.9999628	0.9999677	0.9999728	0.9999781	0.9999837
133 22 30	0.9999593	0.9999641	0.9999691	0.9999743	0.9999797
133 25 00	0.9999560	0.9999607	0.9999655	0.9999706	0.9999758
133 27 30	0.9999527	0.9999573	0.9999620	0.9999670	0.9999721
133 30 00	0.9999496	0.9999540	0.9999586	0.9999634	0.9999684
133 32 30	0.9999465	0.9999508	0.9999553	0.9999600	0.9999648
133 35 00	0.9999436	0.9999478	0.9999521	0.9999566	0.9999614
133 37 30	0.9999407	0.9999448	0.9999490	0.9999534	0.9999580
133 40 00	0.9999380	0.9999419	0.9999460	0.9999503	0.9999547
133 42 30	0.9999353	0.9999391	0.9999431	0.9999472	0.9999515
133 45 00	0.9999328	0.9999364	0.9999402	0.9999442	0.9999485
133 47 30	0.9999303	0.9999338	0.9999375	0.9999414	0.9999455
133 50 00	0.9999280	0.9999313	0.9999349	0.9999386	0.9999426
133 52 30	0.9999257	0.9999289	0.9999324	0.9999360	0.9999398
133 55 00	0.9999235	0.9999266	0.9999299	0.9999334	0.9999371
133 57 30	0.9999215	0.9999244	0.9999276	0.9999309	0.9999345
134 00 00	0.9999195	0.9999223	0.9999253	0.9999286	0.9999320
134 02 30	0.9999176	0.9999203	0.9999232	0.9999263	0.9999296
134 05 00	0.9999158	0.9999184	0.9999211	0.9999241	0.9999272
134 07 30	0.9999141	0.9999166	0.9999192	0.9999220	0.9999250
134 10 00	0.9999125	0.9999148	0.9999173	0.9999200	0.9999229
134 12 30	0.9999110	0.9999132	0.9999156	0.9999181	0.9999209
134 15 00	0.9999096	0.9999117	0.9999139	0.9999163	0.9999189
134 17 30	0.9999083	0.9999102	0.9999123	0.9999146	0.9999171
134 20 00	0.9999071	0.9999089	0.9999108	0.9999130	0.9999153
134 22 30	0.9999060	0.9999076	0.9999095	0.9999115	0.9999137
134 25 00	0.9999050	0.9999065	0.9999082	0.9999101	0.9999121
134 27 30	0.9999041	0.9999054	0.9999070	0.9999087	0.9999107
134 30 00	0.9999032	0.9999045	0.9999059	0.9999075	0.9999093

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	57 50 00	57 52 30	57 55 00	57 57 30	58 00 00
134 30 00	- 0 42 03.6	- 0 42 03.3	- 0 42 02.9	- 0 42 02.5	- 0 42 02.0
134 32 30	- 0 44 10.5	- 0 44 10.2	- 0 44 09.8	- 0 44 09.5	- 0 44 09.0
134 35 00	- 0 46 17.4	- 0 46 17.1	- 0 46 16.8	- 0 46 16.4	- 0 46 16.0
134 37 30	- 0 48 24.2	- 0 48 24.0	- 0 48 23.8	- 0 48 23.4	- 0 48 23.1
134 40 00	- 0 50 31.2	- 0 50 31.0	- 0 50 30.7	- 0 50 30.4	- 0 50 30.1
134 42 30	- 0 52 38.1	- 0 52 37.9	- 0 52 37.7	- 0 52 37.5	- 0 52 37.2
134 45 00	- 0 54 45.0	- 0 54 44.9	- 0 54 44.7	- 0 54 44.5	- 0 54 44.2
134 47 30	- 0 56 52.0	- 0 56 51.9	- 0 56 51.8	- 0 56 51.6	- 0 56 51.3
134 50 00	- 0 58 58.9	- 0 58 58.9	- 0 58 58.8	- 0 58 58.6	- 0 58 58.4
134 52 30	- 1 01 05.9	- 1 01 05.9	- 1 01 05.8	- 1 01 05.7	- 1 01 05.6
134 55 00	- 1 03 12.9	- 1 03 12.9	- 1 03 12.9	- 1 03 12.8	- 1 03 12.7
134 57 30	- 1 05 19.9	- 1 05 20.0	- 1 05 20.0	- 1 05 19.9	- 1 05 19.9
135 00 00	- 1 07 26.9	- 1 07 27.0	- 1 07 27.1	- 1 07 27.1	- 1 07 27.0
135 02 30	- 1 09 34.0	- 1 09 34.1	- 1 09 34.2	- 1 09 34.2	- 1 09 34.2
135 05 00	- 1 11 41.0	- 1 11 41.2	- 1 11 41.3	- 1 11 41.4	- 1 11 41.4
135 07 30	- 1 13 48.1	- 1 13 48.3	- 1 13 48.5	- 1 13 48.6	- 1 13 48.6
135 10 00	- 1 15 55.2	- 1 15 55.4	- 1 15 55.6	- 1 15 55.8	- 1 15 55.8
135 12 30	- 1 18 02.3	- 1 18 02.6	- 1 18 02.8	- 1 18 03.0	- 1 18 03.1
135 15 00	- 1 20 09.4	- 1 20 09.7	- 1 20 10.0	- 1 20 10.2	- 1 20 10.3
135 17 30	- 1 22 16.5	- 1 22 16.9	- 1 22 17.2	- 1 22 17.4	- 1 22 17.6
135 20 00	- 1 24 23.7	- 1 24 24.0	- 1 24 24.4	- 1 24 24.7	- 1 24 24.9
135 22 30	- 1 26 30.8	- 1 26 31.2	- 1 26 31.6	- 1 26 31.9	- 1 26 32.2
135 25 00	- 1 28 38.0	- 1 28 38.5	- 1 28 38.9	- 1 28 39.2	- 1 28 39.5
135 27 30	- 1 30 45.2	- 1 30 45.7	- 1 30 46.1	- 1 30 46.5	- 1 30 46.9
135 30 00	- 1 32 52.4	- 1 32 52.9	- 1 32 53.4	- 1 32 53.8	- 1 32 54.2
135 32 30	- 1 34 59.6	- 1 35 00.2	- 1 35 00.7	- 1 35 01.2	- 1 35 01.6
135 35 00	- 1 37 06.8	- 1 37 07.4	- 1 37 08.0	- 1 37 08.5	- 1 37 08.9
135 37 30	- 1 39 14.1	- 1 39 14.7	- 1 39 15.3	- 1 39 15.9	- 1 39 16.3
135 40 00	- 1 41 21.4	- 1 41 22.0	- 1 41 22.7	- 1 41 23.2	- 1 41 23.7
135 42 30	- 1 43 28.6	- 1 43 29.4	- 1 43 30.0	- 1 43 30.6	- 1 43 31.2
135 45 00	- 1 45 35.9	- 1 45 36.7	- 1 45 37.4	- 1 45 38.0	- 1 45 38.6
135 47 30	- 1 47 43.3	- 1 47 44.0	- 1 47 44.8	- 1 47 45.4	- 1 47 46.1
135 50 00	- 1 49 50.6	- 1 49 51.4	- 1 49 52.2	- 1 49 52.9	- 1 49 53.5
135 52 30	- 1 51 57.9	- 1 51 58.8	- 1 51 59.6	- 1 52 00.3	- 1 52 01.0
135 55 00	- 1 54 05.3	- 1 54 06.2	- 1 54 07.0	- 1 54 07.8	- 1 54 08.5
135 57 30	- 1 56 12.7	- 1 56 13.6	- 1 56 14.4	- 1 56 15.3	- 1 56 16.0
136 00 00	- 1 58 20.0	- 1 58 21.0	- 1 58 21.9	- 1 58 22.8	- 1 58 23.6
136 02 30	- 2 00 27.5	- 2 00 28.4	- 2 00 29.4	- 2 00 30.3	- 2 00 31.1
136 05 00	- 2 02 34.9	- 2 02 35.9	- 2 02 36.9	- 2 02 37.8	- 2 02 38.7
136 07 30	- 2 04 42.3	- 2 04 43.4	- 2 04 44.4	- 2 04 45.3	- 2 04 46.2
136 10 00	- 2 06 49.8	- 2 06 50.9	- 2 06 51.9	- 2 06 52.9	- 2 06 53.8
136 12 30	- 2 08 57.2	- 2 08 58.4	- 2 08 59.4	- 2 09 00.5	- 2 09 01.4
136 15 00	- 2 11 04.7	- 2 11 05.9	- 2 11 07.0	- 2 11 08.0	- 2 11 09.0
136 17 30	- 2 13 12.2	- 2 13 13.4	- 2 13 14.6	- 2 13 15.6	- 2 13 16.7
136 20 00	- 2 15 19.7	- 2 15 21.0	- 2 15 22.1	- 2 15 23.3	- 2 15 24.3
136 22 30	- 2 17 27.3	- 2 17 28.5	- 2 17 29.7	- 2 17 30.9	- 2 17 32.0
136 25 00	- 2 19 34.8	- 2 19 36.1	- 2 19 37.3	- 2 19 38.5	- 2 19 39.7
136 27 30	- 2 21 42.4	- 2 21 43.7	- 2 21 45.0	- 2 21 46.2	- 2 21 47.4
136 30 00	- 2 23 49.9	- 2 23 51.3	- 2 23 52.6	- 2 23 53.9	- 2 23 55.1
136 32 30	- 2 25 57.5	- 2 25 58.9	- 2 26 00.3	- 2 26 01.6	- 2 26 02.8
136 35 00	- 2 28 05.1	- 2 28 06.6	- 2 28 08.0	- 2 28 09.3	- 2 28 10.6
136 37 30	- 2 30 12.8	- 2 30 14.2	- 2 30 15.6	- 2 30 17.0	- 2 30 18.3
136 40 00	- 2 32 20.4	- 2 32 21.9	- 2 32 23.4	- 2 32 24.8	- 2 32 26.1
136 42 30	- 2 34 28.1	- 2 34 29.6	- 2 34 31.1	- 2 34 32.5	- 2 34 33.9
136 45 00	- 2 36 35.7	- 2 36 37.3	- 2 36 38.8	- 2 36 40.3	- 2 36 41.7
136 47 30	- 2 38 43.4	- 2 38 45.0	- 2 38 46.6	- 2 38 48.1	- 2 38 49.5
136 50 00	- 2 40 51.1	- 2 40 52.8	- 2 40 54.3	- 2 40 55.9	- 2 40 57.4
136 52 30	- 2 42 58.8	- 2 43 00.5	- 2 43 02.1	- 2 43 03.7	- 2 43 05.2
136 55 00	- 2 45 06.6	- 2 45 08.3	- 2 45 09.9	- 2 45 11.5	- 2 45 13.1
136 57 30	- 2 47 14.3	- 2 47 16.1	- 2 47 17.7	- 2 47 19.4	- 2 47 21.0
137 00 00	- 2 49 22.1	- 2 49 23.9	- 2 49 25.6	- 2 49 27.2	- 2 49 28.9

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\,[-.6(x_2-x_1)+.8(y_2-y_1)][.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	57 50 00	57 52 30	57 55 00	57 57 30	58 00 00
134 30 00	0.9999032	0.9999045	0.9999059	0.9999075	0.9999093
134 32 30	0.9999025	0.9999036	0.9999049	0.9999064	0.9999080
134 35 00	0.9999019	0.9999028	0.9999040	0.9999053	0.9999069
134 37 30	0.9999013	0.9999021	0.9999032	0.9999044	0.9999058
134 40 00	0.9999009	0.9999015	0.9999024	0.9999035	0.9999048
134 42 30	0.9999005	0.9999011	0.9999018	0.9999027	0.9999039
134 45 00	0.9999002	0.9999007	0.9999013	0.9999021	0.9999031
134 47 30	0.9999001	0.9999004	0.9999008	0.9999015	0.9999024
134 50 00	0.9999000	0.9999001	0.9999005	0.9999010	0.9999018
134 52 30	0.9999000	0.9999000	0.9999002	0.9999006	0.9999012
134 55 00	0.9999001	0.9999000	0.9999001	0.9999003	0.9999008
134 57 30	0.9999003	0.9999001	0.9999000	0.9999001	0.9999005
135 00 00	0.9999006	0.9999002	0.9999000	0.9999000	0.9999002
135 02 30	0.9999010	0.9999005	0.9999001	0.9999000	0.9999001
135 05 00	0.9999015	0.9999008	0.9999004	0.9999001	0.9999000
135 07 30	0.9999021	0.9999013	0.9999007	0.9999002	0.9999000
135 10 00	0.9999028	0.9999018	0.9999011	0.9999005	0.9999001
135 12 30	0.9999035	0.9999024	0.9999015	0.9999008	0.9999004
135 15 00	0.9999044	0.9999031	0.9999021	0.9999013	0.9999007
135 17 30	0.9999053	0.9999040	0.9999028	0.9999018	0.9999011
135 20 00	0.9999064	0.9999049	0.9999036	0.9999025	0.9999016
135 22 30	0.9999075	0.9999059	0.9999044	0.9999032	0.9999021
135 25 00	0.9999087	0.9999069	0.9999054	0.9999040	0.9999028
135 27 30	0.9999100	0.9999081	0.9999064	0.9999049	0.9999036
135 30 00	0.9999114	0.9999094	0.9999075	0.9999059	0.9999044
135 32 30	0.9999129	0.9999107	0.9999087	0.9999070	0.9999054
135 35 00	0.9999145	0.9999122	0.9999101	0.9999081	0.9999064
135 37 30	0.9999162	0.9999137	0.9999115	0.9999094	0.9999075
135 40 00	0.9999180	0.9999154	0.9999130	0.9999108	0.9999088
135 42 30	0.9999198	0.9999171	0.9999145	0.9999122	0.9999101
135 45 00	0.9999218	0.9999189	0.9999162	0.9999137	0.9999115
135 47 30	0.9999238	0.9999208	0.9999180	0.9999154	0.9999129
135 50 00	0.9999260	0.9999228	0.9999198	0.9999171	0.9999145
135 52 30	0.9999282	0.9999249	0.9999218	0.9999189	0.9999162
135 55 00	0.9999305	0.9999271	0.9999238	0.9999208	0.9999180
135 57 30	0.9999329	0.9999293	0.9999260	0.9999228	0.9999198
136 00 00	0.9999354	0.9999317	0.9999282	0.9999248	0.9999217
136 02 30	0.9999380	0.9999341	0.9999305	0.9999270	0.9999238
136 05 00	0.9999407	0.9999367	0.9999329	0.9999293	0.9999259
136 07 30	0.9999435	0.9999393	0.9999354	0.9999316	0.9999281
136 10 00	0.9999463	0.9999420	0.9999379	0.9999340	0.9999304
136 12 30	0.9999493	0.9999448	0.9999406	0.9999366	0.9999328
136 15 00	0.9999523	0.9999477	0.9999433	0.9999392	0.9999352
136 17 30	0.9999554	0.9999507	0.9999462	0.9999419	0.9999378
136 20 00	0.9999586	0.9999538	0.9999491	0.9999447	0.9999404
136 22 30	0.9999619	0.9999569	0.9999521	0.9999475	0.9999432
136 25 00	0.9999653	0.9999602	0.9999552	0.9999505	0.9999460
136 27 30	0.9999688	0.9999635	0.9999584	0.9999536	0.9999489
136 30 00	0.9999723	0.9999669	0.9999617	0.9999567	0.9999519
136 32 30	0.9999760	0.9999704	0.9999651	0.9999599	0.9999550
136 35 00	0.9999797	0.9999740	0.9999685	0.9999632	0.9999582
136 37 30	0.9999836	0.9999777	0.9999721	0.9999666	0.9999614
136 40 00	0.9999875	0.9999815	0.9999757	0.9999701	0.9999648
136 42 30	0.9999915	0.9999854	0.9999794	0.9999737	0.9999682
136 45 00	0.9999956	0.9999893	0.9999832	0.9999774	0.9999717
136 47 30	0.9999998	0.9999933	0.9999871	0.9999811	0.9999754
136 50 00	1.0000040	0.9999975	0.9999911	0.9999850	0.9999790
136 52 30	1.0000084	1.0000017	0.9999952	0.9999889	0.9999828
136 55 00	1.0000128	1.0000060	0.9999993	0.9999929	0.9999867
136 57 30	1.0000174	1.0000104	1.0000036	0.9999970	0.9999907
137 00 00	1.0000220	1.0000148	1.0000079	1.0000012	0.9999947

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	58 00 00	58 02 30	58 05 00	58 07 30	58 10 00
132 00 00	1 24 32.1	1 24 34.9	1 24 37.8	1 24 40.7	1 24 43.7
132 02 30	1 22 25.9	1 22 28.7	1 22 31.6	1 22 34.4	1 22 37.4
132 05 00	1 20 19.8	1 20 22.5	1 20 25.3	1 20 28.2	1 20 31.1
132 07 30	1 18 13.6	1 18 16.3	1 18 19.1	1 18 21.9	1 18 24.7
132 10 00	1 16 07.4	1 16 10.1	1 16 12.8	1 16 15.5	1 16 18.4
132 12 30	1 14 01.2	1 14 03.8	1 14 06.5	1 14 09.2	1 14 12.0
132 15 00	1 11 55.0	1 11 57.5	1 12 00.2	1 12 02.9	1 12 05.6
132 17 30	1 09 48.7	1 09 51.3	1 09 53.9	1 09 56.5	1 09 59.2
132 20 00	1 07 42.5	1 07 45.0	1 07 47.5	1 07 50.1	1 07 52.8
132 22 30	1 05 36.2	1 05 38.7	1 05 41.2	1 05 43.8	1 05 46.4
132 25 00	1 03 29.9	1 03 32.4	1 03 34.8	1 03 37.4	1 03 40.0
132 27 30	1 01 23.6	1 01 26.0	1 01 28.5	1 01 31.0	1 01 33.5
132 30 00	0 59 17.3	0 59 19.7	0 59 22.1	0 59 24.5	0 59 27.0
132 32 30	0 57 11.0	0 57 13.3	0 57 15.7	0 57 18.1	0 57 20.6
132 35 00	0 55 04.7	0 55 06.9	0 55 09.3	0 55 11.6	0 55 14.1
132 37 30	0 52 58.3	0 53 00.6	0 53 02.8	0 53 05.2	0 53 07.6
132 40 00	0 50 52.0	0 50 54.2	0 50 56.4	0 50 58.7	0 51 01.1
132 42 30	0 48 45.6	0 48 47.7	0 48 49.9	0 48 52.2	0 48 54.5
132 45 00	0 46 39.2	0 46 41.3	0 46 43.5	0 46 45.7	0 46 48.0
132 47 30	0 44 32.8	0 44 34.9	0 44 37.0	0 44 39.2	0 44 41.4
132 50 00	0 42 26.4	0 42 28.4	0 42 30.5	0 42 32.7	0 42 34.8
132 52 30	0 40 19.9	0 40 21.9	0 40 24.0	0 40 26.1	0 40 28.3
132 55 00	0 38 13.5	0 38 15.5	0 38 17.5	0 38 19.5	0 38 21.7
132 57 30	0 36 07.0	0 36 09.0	0 36 10.9	0 36 13.0	0 36 15.1
133 00 00	0 34 00.6	0 34 02.4	0 34 04.4	0 34 06.4	0 34 08.4
133 02 30	0 31 54.1	0 31 55.9	0 31 57.8	0 31 59.8	0 32 01.8
133 05 00	0 29 47.6	0 29 49.4	0 29 51.2	0 29 53.2	0 29 55.1
133 07 30	0 27 41.1	0 27 42.8	0 27 44.7	0 27 46.5	0 27 48.5
133 10 00	0 25 34.5	0 25 36.3	0 25 38.0	0 25 39.9	0 25 41.8
133 12 30	0 23 28.0	0 23 29.7	0 23 31.4	0 23 33.2	0 23 35.1
133 15 00	0 21 21.4	0 21 23.1	0 21 24.8	0 21 26.6	0 21 28.4
133 17 30	0 19 14.8	0 19 16.5	0 19 18.1	0 19 19.9	0 19 21.6
133 20 00	0 17 08.3	0 17 09.8	0 17 11.5	0 17 13.2	0 17 14.9
133 22 30	0 15 01.7	0 15 03.2	0 15 04.8	0 15 06.4	0 15 08.2
133 25 00	0 12 55.0	0 12 56.5	0 12 58.1	0 12 59.7	0 13 01.4
133 27 30	0 10 48.4	0 10 49.9	0 10 51.4	0 10 53.0	0 10 54.6
133 30 00	0 08 41.8	0 08 43.2	0 08 44.7	0 08 46.2	0 08 47.8
133 32 30	0 06 35.1	0 06 36.5	0 06 38.0	0 06 39.4	0 06 41.0
133 35 00	0 04 28.4	0 04 29.8	0 04 31.2	0 04 32.7	0 04 34.2
133 37 30	0 02 21.8	0 02 23.1	0 02 24.4	0 02 25.9	0 02 27.3
133 40 00	0 00 15.1	0 00 16.3	0 00 17.7	0 00 19.1	0 00 20.5
133 42 30	- 0 01 51.7	- 0 01 50.4	- 0 01 49.1	- 0 01 47.8	- 0 01 46.4
133 45 00	- 0 03 58.4	- 0 03 57.2	- 0 03 55.9	- 0 03 54.6	- 0 03 53.3
133 47 30	- 0 06 05.1	- 0 06 04.0	- 0 06 02.7	- 0 06 01.5	- 0 06 00.2
133 50 00	- 0 08 11.9	- 0 08 10.8	- 0 08 09.6	- 0 08 08.3	- 0 08 07.1
133 52 30	- 0 10 18.7	- 0 10 17.6	- 0 10 16.4	- 0 10 15.2	- 0 10 14.0
133 55 00	- 0 12 25.5	- 0 12 24.4	- 0 12 23.3	- 0 12 22.1	- 0 12 20.9
133 57 30	- 0 14 32.3	- 0 14 31.2	- 0 14 30.2	- 0 14 29.0	- 0 14 27.9
134 00 00	- 0 16 39.1	- 0 16 38.1	- 0 16 37.1	- 0 16 36.0	- 0 16 34.8
134 02 30	- 0 18 45.9	- 0 18 45.0	- 0 18 44.0	- 0 18 42.9	- 0 18 41.8
134 05 00	- 0 20 52.7	- 0 20 51.8	- 0 20 50.9	- 0 20 49.9	- 0 20 48.8
134 07 30	- 0 22 59.6	- 0 22 58.7	- 0 22 57.8	- 0 22 56.8	- 0 22 55.8
134 10 00	- 0 25 06.5	- 0 25 05.6	- 0 25 04.8	- 0 25 03.8	- 0 25 02.8
134 12 30	- 0 27 13.4	- 0 27 12.6	- 0 27 11.7	- 0 27 10.8	- 0 27 09.9
134 15 00	- 0 29 20.3	- 0 29 19.5	- 0 29 18.7	- 0 29 17.8	- 0 29 16.9
134 17 30	- 0 31 27.2	- 0 31 26.5	- 0 31 25.7	- 0 31 24.9	- 0 31 24.0
134 20 00	- 0 33 34.1	- 0 33 33.4	- 0 33 32.7	- 0 33 31.9	- 0 33 31.1
134 22 30	- 0 35 41.1	- 0 35 40.4	- 0 35 39.7	- 0 35 39.0	- 0 35 38.2
134 25 00	- 0 37 48.0	- 0 37 47.4	- 0 37 46.8	- 0 37 46.0	- 0 37 45.3
134 27 30	- 0 39 55.0	- 0 39 54.4	- 0 39 53.8	- 0 39 53.1	- 0 39 52.4
134 30 00	- 0 42 02.0	- 0 42 01.5	- 0 42 00.9	- 0 42 00.2	- 0 41 59.5

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	58 00 00	58 02 30	58 05 00	58 07 30	58 10 00
132 00 00	1.0001627	1.0001724	1.0001824	1.0001925	1.0002028
132 02 30	1.0001555	1.0001652	1.0001750	1.0001849	1.0001951
132 05 00	1.0001485	1.0001580	1.0001677	1.0001775	1.0001876
132 07 30	1.0001415	1.0001509	1.0001605	1.0001702	1.0001801
132 10 00	1.0001347	1.0001439	1.0001534	1.0001630	1.0001728
132 12 30	1.0001279	1.0001371	1.0001464	1.0001559	1.0001655
132 15 00	1.0001213	1.0001303	1.0001395	1.0001488	1.0001584
132 17 30	1.0001147	1.0001236	1.0001327	1.0001419	1.0001513
132 20 00	1.0001083	1.0001171	1.0001260	1.0001351	1.0001444
132 22 30	1.0001020	1.0001106	1.0001194	1.0001284	1.0001376
132 25 00	1.0000957	1.0001042	1.0001129	1.0001218	1.0001308
132 27 30	1.0000896	1.0000980	1.0001065	1.0001152	1.0001242
132 30 00	1.0000835	1.0000918	1.0001002	1.0001088	1.0001176
132 32 30	1.0000776	1.0000857	1.0000940	1.0001025	1.0001112
132 35 00	1.0000718	1.0000798	1.0000879	1.0000963	1.0001048
132 37 30	1.0000660	1.0000739	1.0000819	1.0000902	1.0000986
132 40 00	1.0000604	1.0000681	1.0000761	1.0000842	1.0000925
132 42 30	1.0000548	1.0000625	1.0000703	1.0000782	1.0000864
132 45 00	1.0000494	1.0000569	1.0000646	1.0000724	1.0000805
132 47 30	1.0000441	1.0000514	1.0000590	1.0000667	1.0000746
132 50 00	1.0000388	1.0000461	1.0000535	1.0000611	1.0000689
132 52 30	1.0000337	1.0000408	1.0000481	1.0000556	1.0000632
132 55 00	1.0000286	1.0000356	1.0000428	1.0000501	1.0000577
132 57 30	1.0000237	1.0000306	1.0000376	1.0000448	1.0000522
133 00 00	1.0000189	1.0000256	1.0000325	1.0000396	1.0000469
133 02 30	1.0000141	1.0000207	1.0000275	1.0000345	1.0000416
133 05 00	1.0000095	1.0000159	1.0000226	1.0000294	1.0000364
133 07 30	1.0000049	1.0000113	1.0000178	1.0000245	1.0000314
133 10 00	1.0000005	1.0000067	1.0000131	1.0000197	1.0000264
133 12 30	0.9999961	1.0000022	1.0000085	1.0000149	1.0000216
133 15 00	0.9999919	0.9999978	1.0000040	1.0000103	1.0000168
133 17 30	0.9999877	0.9999935	0.9999995	1.0000057	1.0000121
133 20 00	0.9999837	0.9999893	0.9999952	1.0000013	1.0000076
133 22 30	0.9999797	0.9999853	0.9999910	0.9999970	1.0000031
133 25 00	0.9999758	0.9999813	0.9999869	0.9999927	0.9999987
133 27 30	0.9999721	0.9999774	0.9999829	0.9999886	0.9999944
133 30 00	0.9999684	0.9999736	0.9999789	0.9999845	0.9999902
133 32 30	0.9999648	0.9999699	0.9999751	0.9999805	0.9999862
133 35 00	0.9999614	0.9999663	0.9999714	0.9999767	0.9999822
133 37 30	0.9999580	0.9999628	0.9999678	0.9999729	0.9999783
133 40 00	0.9999547	0.9999594	0.9999642	0.9999692	0.9999745
133 42 30	0.9999515	0.9999561	0.9999608	0.9999657	0.9999708
133 45 00	0.9999485	0.9999528	0.9999574	0.9999622	0.9999672
133 47 30	0.9999455	0.9999497	0.9999542	0.9999588	0.9999637
133 50 00	0.9999426	0.9999467	0.9999510	0.9999555	0.9999602
133 52 30	0.9999398	0.9999438	0.9999480	0.9999523	0.9999569
133 55 00	0.9999371	0.9999409	0.9999450	0.9999493	0.9999537
133 57 30	0.9999345	0.9999382	0.9999421	0.9999463	0.9999506
134 00 00	0.9999320	0.9999356	0.9999394	0.9999434	0.9999475
134 02 30	0.9999296	0.9999330	0.9999367	0.9999406	0.9999446
134 05 00	0.9999272	0.9999306	0.9999341	0.9999378	0.9999418
134 07 30	0.9999250	0.9999282	0.9999316	0.9999352	0.9999390
134 10 00	0.9999229	0.9999260	0.9999292	0.9999327	0.9999364
134 12 30	0.9999209	0.9999238	0.9999269	0.9999303	0.9999338
134 15 00	0.9999189	0.9999217	0.9999247	0.9999279	0.9999313
134 17 30	0.9999171	0.9999198	0.9999226	0.9999257	0.9999290
134 20 00	0.9999153	0.9999179	0.9999206	0.9999236	0.9999267
134 22 30	0.9999137	0.9999161	0.9999187	0.9999215	0.9999245
134 25 00	0.9999121	0.9999144	0.9999169	0.9999196	0.9999224
134 27 30	0.9999107	0.9999128	0.9999152	0.9999177	0.9999204
134 30 00	0.9999093	0.9999113	0.9999135	0.9999159	0.9999185

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	58 00 00	58 02 30	58 05 00	58 07 30	58 10 00
134 30 00	- 0 42 02.0	- 0 42 01.5	- 0 42 00.9	- 0 42 00.2	- 0 41 59.5
134 32 30	- 0 44 09.0	- 0 44 08.5	- 0 44 07.9	- 0 44 07.3	- 0 44 06.7
134 35 00	- 0 46 16.0	- 0 46 15.6	- 0 46 15.0	- 0 46 14.5	- 0 46 13.8
134 37 30	- 0 48 23.1	- 0 48 22.6	- 0 48 22.1	- 0 48 21.6	- 0 48 21.0
134 40 00	- 0 50 30.1	- 0 50 29.7	- 0 50 29.3	- 0 50 28.8	- 0 50 28.2
134 42 30	- 0 52 37.2	- 0 52 36.8	- 0 52 36.4	- 0 52 35.9	- 0 52 35.4
134 45 00	- 0 54 44.2	- 0 54 43.9	- 0 54 43.6	- 0 54 43.1	- 0 54 42.6
134 47 30	- 0 56 51.3	- 0 56 51.1	- 0 56 50.7	- 0 56 50.3	- 0 56 49.9
134 50 00	- 0 58 58.4	- 0 58 58.2	- 0 58 57.9	- 0 58 57.5	- 0 58 57.1
134 52 30	- 1 01 05.6	- 1 01 05.4	- 1 01 05.1	- 1 01 04.8	- 1 01 04.4
134 55 00	- 1 03 12.7	- 1 03 12.5	- 1 03 12.3	- 1 03 12.0	- 1 03 11.7
134 57 30	- 1 05 19.9	- 1 05 19.7	- 1 05 19.5	- 1 05 19.3	- 1 05 19.0
135 00 00	- 1 07 27.0	- 1 07 26.9	- 1 07 26.8	- 1 07 26.6	- 1 07 26.3
135 02 30	- 1 09 34.2	- 1 09 34.1	- 1 09 34.0	- 1 09 33.8	- 1 09 33.6
135 05 00	- 1 11 41.4	- 1 11 41.4	- 1 11 41.3	- 1 11 41.2	- 1 11 41.0
135 07 30	- 1 13 48.6	- 1 13 48.6	- 1 13 48.6	- 1 13 48.5	- 1 13 48.3
135 10 00	- 1 15 55.8	- 1 15 55.9	- 1 15 55.9	- 1 15 55.8	- 1 15 55.7
135 12 30	- 1 18 03.1	- 1 18 03.2	- 1 18 03.2	- 1 18 03.2	- 1 18 03.1
135 15 00	- 1 20 10.3	- 1 20 10.5	- 1 20 10.5	- 1 20 10.5	- 1 20 10.5
135 17 30	- 1 22 17.6	- 1 22 17.8	- 1 22 17.9	- 1 22 17.9	- 1 22 17.9
135 20 00	- 1 24 24.9	- 1 24 25.1	- 1 24 25.2	- 1 24 25.3	- 1 24 25.3
135 22 30	- 1 26 32.2	- 1 26 32.4	- 1 26 32.6	- 1 26 32.7	- 1 26 32.8
135 25 00	- 1 28 39.5	- 1 28 39.8	- 1 28 40.0	- 1 28 40.1	- 1 28 40.2
135 27 30	- 1 30 46.9	- 1 30 47.1	- 1 30 47.4	- 1 30 47.6	- 1 30 47.7
135 30 00	- 1 32 54.2	- 1 32 54.5	- 1 32 54.8	- 1 32 55.0	- 1 32 55.2
135 32 30	- 1 35 01.6	- 1 35 01.9	- 1 35 02.2	- 1 35 02.5	- 1 35 02.7
135 35 00	- 1 37 08.9	- 1 37 09.3	- 1 37 09.7	- 1 37 10.0	- 1 37 10.2
135 37 30	- 1 39 16.3	- 1 39 16.8	- 1 39 17.1	- 1 39 17.5	- 1 39 17.7
135 40 00	- 1 41 23.7	- 1 41 24.2	- 1 41 24.6	- 1 41 25.0	- 1 41 25.3
135 42 30	- 1 43 31.2	- 1 43 31.7	- 1 43 32.1	- 1 43 32.5	- 1 43 32.8
135 45 00	- 1 45 38.6	- 1 45 39.1	- 1 45 39.6	- 1 45 40.0	- 1 45 40.4
135 47 30	- 1 47 46.1	- 1 47 46.6	- 1 47 47.1	- 1 47 47.6	- 1 47 48.0
135 50 00	- 1 49 53.5	- 1 49 54.1	- 1 49 54.7	- 1 49 55.2	- 1 49 55.6
135 52 30	- 1 52 01.0	- 1 52 01.6	- 1 52 02.2	- 1 52 02.8	- 1 52 03.2
135 55 00	- 1 54 08.5	- 1 54 09.2	- 1 54 09.8	- 1 54 10.4	- 1 54 10.9
135 57 30	- 1 56 16.0	- 1 56 16.7	- 1 56 17.4	- 1 56 18.0	- 1 56 18.5
136 00 00	- 1 58 23.6	- 1 58 24.3	- 1 58 25.0	- 1 58 25.6	- 1 58 26.2
136 02 30	- 2 00 31.1	- 2 00 31.9	- 2 00 32.6	- 2 00 33.3	- 2 00 33.9
136 05 00	- 2 02 38.7	- 2 02 39.5	- 2 02 40.2	- 2 02 40.9	- 2 02 41.6
136 07 30	- 2 04 46.2	- 2 04 47.1	- 2 04 47.9	- 2 04 48.6	- 2 04 49.3
136 10 00	- 2 06 53.8	- 2 06 54.7	- 2 06 55.5	- 2 06 56.3	- 2 06 57.0
136 12 30	- 2 09 01.4	- 2 09 02.3	- 2 09 03.2	- 2 09 04.0	- 2 09 04.8
136 15 00	- 2 11 09.0	- 2 11 10.0	- 2 11 10.9	- 2 11 11.7	- 2 11 12.5
136 17 30	- 2 13 16.7	- 2 13 17.7	- 2 13 18.6	- 2 13 19.5	- 2 13 20.3
136 20 00	- 2 15 24.3	- 2 15 25.4	- 2 15 26.3	- 2 15 27.2	- 2 15 28.1
136 22 30	- 2 17 32.0	- 2 17 33.1	- 2 17 34.1	- 2 17 35.0	- 2 17 35.9
136 25 00	- 2 19 39.7	- 2 19 40.8	- 2 19 41.8	- 2 19 42.8	- 2 19 43.7
136 27 30	- 2 21 47.4	- 2 21 48.5	- 2 21 49.6	- 2 21 50.6	- 2 21 51.5
136 30 00	- 2 23 55.1	- 2 23 56.2	- 2 23 57.3	- 2 23 58.4	- 2 23 59.4
136 32 30	- 2 26 02.8	- 2 26 04.0	- 2 26 05.1	- 2 26 06.2	- 2 26 07.3
136 35 00	- 2 28 10.6	- 2 28 11.8	- 2 28 13.0	- 2 28 14.1	- 2 28 15.1
136 37 30	- 2 30 18.3	- 2 30 19.6	- 2 30 20.8	- 2 30 21.9	- 2 30 23.0
136 40 00	- 2 32 26.1	- 2 32 27.4	- 2 32 28.6	- 2 32 29.8	- 2 32 30.9
136 42 30	- 2 34 33.9	- 2 34 35.2	- 2 34 36.5	- 2 34 37.7	- 2 34 38.9
136 45 00	- 2 36 41.7	- 2 36 43.1	- 2 36 44.4	- 2 36 45.6	- 2 36 46.8
136 47 30	- 2 38 49.5	- 2 38 50.9	- 2 38 52.2	- 2 38 53.5	- 2 38 54.8
136 50 00	- 2 40 57.4	- 2 40 58.8	- 2 41 00.2	- 2 41 01.5	- 2 41 02.7
136 52 30	- 2 43 05.2	- 2 43 06.7	- 2 43 08.1	- 2 43 09.4	- 2 43 10.7
136 55 00	- 2 45 13.1	- 2 45 14.6	- 2 45 16.0	- 2 45 17.4	- 2 45 18.7
136 57 30	- 2 47 21.0	- 2 47 22.5	- 2 47 24.0	- 2 47 25.4	- 2 47 26.7
137 00 00	- 2 49 28.9	- 2 49 30.4	- 2 49 31.9	- 2 49 33.4	- 2 49 34.8

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	58 00 00	58 02 30	58 05 00	58 07 30	58 10 00
134 30 00	0.9999093	0.9999113	0.9999135	0.9999159	0.9999185
134 32 30	0.9999080	0.9999099	0.9999120	0.9999143	0.9999167
134 35 00	0.9999069	0.9999086	0.9999105	0.9999127	0.9999150
134 37 30	0.9999058	0.9999074	0.9999092	0.9999112	0.9999134
134 40 00	0.9999048	0.9999063	0.9999079	0.9999098	0.9999119
134 42 30	0.9999039	0.9999052	0.9999068	0.9999085	0.9999104
134 45 00	0.9999031	0.9999043	0.9999057	0.9999073	0.9999091
134 47 30	0.9999024	0.9999034	0.9999047	0.9999062	0.9999078
134 50 00	0.9999018	0.9999027	0.9999038	0.9999052	0.9999067
134 52 30	0.9999012	0.9999020	0.9999030	0.9999042	0.9999056
134 55 00	0.9999008	0.9999015	0.9999023	0.9999034	0.9999046
134 57 30	0.9999005	0.9999010	0.9999017	0.9999026	0.9999038
135 00 00	0.9999002	0.9999006	0.9999012	0.9999020	0.9999030
135 02 30	0.9999001	0.9999003	0.9999008	0.9999014	0.9999023
135 05 00	0.9999000	0.9999001	0.9999004	0.9999010	0.9999017
135 07 30	0.9999000	0.9999000	0.9999002	0.9999006	0.9999012
135 10 00	0.9999001	0.9999000	0.9999000	0.9999003	0.9999008
135 12 30	0.9999004	0.9999001	0.9999000	0.9999001	0.9999004
135 15 00	0.9999007	0.9999002	0.9999000	0.9999000	0.9999002
135 17 30	0.9999011	0.9999005	0.9999001	0.9999000	0.9999000
135 20 00	0.9999016	0.9999009	0.9999004	0.9999001	0.9999000
135 22 30	0.9999021	0.9999013	0.9999007	0.9999002	0.9999000
135 25 00	0.9999028	0.9999018	0.9999011	0.9999005	0.9999001
135 27 30	0.9999036	0.9999025	0.9999016	0.9999009	0.9999004
135 30 00	0.9999044	0.9999032	0.9999021	0.9999013	0.9999007
135 32 30	0.9999054	0.9999040	0.9999028	0.9999018	0.9999011
135 35 00	0.9999064	0.9999049	0.9999036	0.9999025	0.9999016
135 37 30	0.9999075	0.9999059	0.9999044	0.9999032	0.9999021
135 40 00	0.9999088	0.9999070	0.9999054	0.9999040	0.9999028
135 42 30	0.9999101	0.9999081	0.9999064	0.9999049	0.9999036
135 45 00	0.9999115	0.9999094	0.9999075	0.9999059	0.9999044
135 47 30	0.9999129	0.9999107	0.9999087	0.9999069	0.9999053
135 50 00	0.9999145	0.9999122	0.9999100	0.9999081	0.9999064
135 52 30	0.9999162	0.9999137	0.9999114	0.9999094	0.9999075
135 55 00	0.9999180	0.9999153	0.9999129	0.9999107	0.9999087
135 57 30	0.9999198	0.9999170	0.9999145	0.9999121	0.9999100
136 00 00	0.9999217	0.9999188	0.9999161	0.9999137	0.9999114
136 02 30	0.9999238	0.9999207	0.9999179	0.9999153	0.9999128
136 05 00	0.9999259	0.9999227	0.9999197	0.9999170	0.9999144
136 07 30	0.9999281	0.9999248	0.9999217	0.9999187	0.9999161
136 10 00	0.9999304	0.9999269	0.9999237	0.9999206	0.9999178
136 12 30	0.9999328	0.9999292	0.9999258	0.9999226	0.9999196
136 15 00	0.9999352	0.9999315	0.9999280	0.9999246	0.9999215
136 17 30	0.9999378	0.9999339	0.9999302	0.9999268	0.9999235
136 20 00	0.9999404	0.9999364	0.9999326	0.9999290	0.9999256
136 22 30	0.9999432	0.9999390	0.9999351	0.9999313	0.9999278
136 25 00	0.9999460	0.9999417	0.9999376	0.9999337	0.9999301
136 27 30	0.9999489	0.9999445	0.9999402	0.9999362	0.9999324
136 30 00	0.9999519	0.9999473	0.9999430	0.9999388	0.9999348
136 32 30	0.9999550	0.9999503	0.9999458	0.9999415	0.9999374
136 35 00	0.9999582	0.9999533	0.9999487	0.9999442	0.9999400
136 37 30	0.9999614	0.9999564	0.9999516	0.9999471	0.9999427
136 40 00	0.9999648	0.9999596	0.9999547	0.9999500	0.9999455
136 42 30	0.9999682	0.9999629	0.9999579	0.9999530	0.9999483
136 45 00	0.9999717	0.9999663	0.9999611	0.9999561	0.9999513
136 47 30	0.9999754	0.9999698	0.9999644	0.9999593	0.9999543
136 50 00	0.9999790	0.9999733	0.9999678	0.9999626	0.9999575
136 52 30	0.9999828	0.9999770	0.9999713	0.9999659	0.9999607
136 55 00	0.9999867	0.9999807	0.9999749	0.9999694	0.9999640
136 57 30	0.9999907	0.9999845	0.9999786	0.9999729	0.9999674
137 00 00	0.9999947	0.9999884	0.9999824	0.9999765	0.9999709

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	58 10 00	58 12 30	58 15 00	58 17 30	58 20 00
133 00 00	0 34 08.4	0 34 10.5	0 34 12.7	0 34 14.9	0 34 17.1
133 02 30	0 32 01.8	0 32 03.8	0 32 05.9	0 32 08.1	0 32 10.3
133 05 00	0 29 55.1	0 29 57.1	0 29 59.2	0 30 01.3	0 30 03.5
133 07 30	0 27 48.5	0 27 50.4	0 27 52.5	0 27 54.6	0 27 56.7
133 10 00	0 25 41.8	0 25 43.7	0 25 45.7	0 25 47.8	0 25 49.9
133 12 30	0 23 35.1	0 23 37.0	0 23 38.9	0 23 41.0	0 23 43.0
133 15 00	0 21 28.4	0 21 30.2	0 21 32.2	0 21 34.1	0 21 36.1
133 17 30	0 19 21.6	0 19 23.5	0 19 25.4	0 19 27.3	0 19 29.3
133 20 00	0 17 14.9	0 17 16.7	0 17 18.5	0 17 20.4	0 17 22.4
133 22 30	0 15 08.2	0 15 09.9	0 15 11.7	0 15 13.6	0 15 15.5
133 25 00	0 13 01.4	0 13 03.1	0 13 04.9	0 13 06.7	0 13 08.6
133 27 30	0 10 54.6	0 10 56.3	0 10 58.0	0 10 59.8	0 11 01.6
133 30 00	0 08 47.8	0 08 49.4	0 08 51.1	0 08 52.9	0 08 54.7
133 32 30	0 06 41.0	0 06 42.6	0 06 44.3	0 06 46.0	0 06 47.7
133 35 00	0 04 34.2	0 04 35.7	0 04 37.4	0 04 39.0	0 04 40.8
133 37 30	0 02 27.3	0 02 28.9	0 02 30.4	0 02 32.1	0 02 33.8
133 40 00	0 00 20.5	0 00 22.0	0 00 23.5	0 00 25.1	0 00 26.8
133 42 30	- 0 01 46.4	- 0 01 44.9	- 0 01 43.4	- 0 01 41.9	- 0 01 40.3
133 45 00	- 0 03 53.3	- 0 03 51.8	- 0 03 50.4	- 0 03 48.9	- 0 03 47.3
133 47 30	- 0 06 00.2	- 0 05 58.8	- 0 05 57.3	- 0 05 55.9	- 0 05 54.3
133 50 00	- 0 08 07.1	- 0 08 05.7	- 0 08 04.3	- 0 08 02.9	- 0 08 01.4
133 52 30	- 0 10 14.0	- 0 10 12.7	- 0 10 11.3	- 0 10 09.9	- 0 10 08.5
133 55 00	- 0 12 20.9	- 0 12 19.7	- 0 12 18.3	- 0 12 17.0	- 0 12 15.5
133 57 30	- 0 14 27.9	- 0 14 26.6	- 0 14 25.4	- 0 14 24.0	- 0 14 22.6
134 00 00	- 0 16 34.8	- 0 16 33.6	- 0 16 32.4	- 0 16 31.1	- 0 16 29.8
134 02 30	- 0 18 41.8	- 0 18 40.7	- 0 18 39.4	- 0 18 38.2	- 0 18 36.9
134 05 00	- 0 20 48.8	- 0 20 47.7	- 0 20 46.5	- 0 20 45.3	- 0 20 44.0
134 07 30	- 0 22 55.8	- 0 22 54.7	- 0 22 53.6	- 0 22 52.4	- 0 22 51.2
134 10 00	- 0 25 02.8	- 0 25 01.8	- 0 25 00.7	- 0 24 59.5	- 0 24 58.3
134 12 30	- 0 27 09.9	- 0 27 08.9	- 0 27 07.8	- 0 27 06.7	- 0 27 05.5
134 15 00	- 0 29 16.9	- 0 29 15.9	- 0 29 14.9	- 0 29 13.9	- 0 29 12.7
134 17 30	- 0 31 24.0	- 0 31 23.0	- 0 31 22.1	- 0 31 21.0	- 0 31 19.9
134 20 00	- 0 33 31.1	- 0 33 30.2	- 0 33 29.2	- 0 33 28.2	- 0 33 27.2
134 22 30	- 0 35 38.2	- 0 35 37.3	- 0 35 36.4	- 0 35 35.4	- 0 35 34.4
134 25 00	- 0 37 45.3	- 0 37 44.4	- 0 37 43.6	- 0 37 42.6	- 0 37 41.7
134 27 30	- 0 39 52.4	- 0 39 51.6	- 0 39 50.8	- 0 39 49.9	- 0 39 48.9
134 30 00	- 0 41 59.5	- 0 41 58.8	- 0 41 58.0	- 0 41 57.1	- 0 41 56.2
134 32 30	- 0 44 06.7	- 0 44 06.0	- 0 44 05.2	- 0 44 04.4	- 0 44 03.5
134 35 00	- 0 46 13.8	- 0 46 13.2	- 0 46 12.4	- 0 46 11.7	- 0 46 10.8
134 37 30	- 0 48 21.0	- 0 48 20.4	- 0 48 19.7	- 0 48 18.9	- 0 48 18.1
134 40 00	- 0 50 28.2	- 0 50 27.6	- 0 50 27.0	- 0 50 26.2	- 0 50 25.5
134 42 30	- 0 52 35.4	- 0 52 34.9	- 0 52 34.2	- 0 52 33.6	- 0 52 32.8
134 45 00	- 0 54 42.6	- 0 54 42.1	- 0 54 41.5	- 0 54 40.9	- 0 54 40.2
134 47 30	- 0 56 49.9	- 0 56 49.4	- 0 56 48.8	- 0 56 48.2	- 0 56 47.6
134 50 00	- 0 58 57.1	- 0 58 56.7	- 0 58 56.2	- 0 58 55.6	- 0 58 55.0
134 52 30	- 1 01 04.4	- 1 01 04.0	- 1 01 03.5	- 1 01 03.0	- 1 01 02.4
134 55 00	- 1 03 11.7	- 1 03 11.3	- 1 03 10.9	- 1 03 10.4	- 1 03 09.8
134 57 30	- 1 05 19.0	- 1 05 18.6	- 1 05 18.2	- 1 05 17.8	- 1 05 17.3
135 00 00	- 1 07 26.3	- 1 07 26.0	- 1 07 25.6	- 1 07 25.2	- 1 07 24.7
135 02 30	- 1 09 33.6	- 1 09 33.3	- 1 09 33.0	- 1 09 32.6	- 1 09 32.2
135 05 00	- 1 11 41.0	- 1 11 40.7	- 1 11 40.4	- 1 11 40.1	- 1 11 39.7
135 07 30	- 1 13 48.3	- 1 13 48.1	- 1 13 47.8	- 1 13 47.5	- 1 13 47.2
135 10 00	- 1 15 55.7	- 1 15 55.5	- 1 15 55.3	- 1 15 55.0	- 1 15 54.7
135 12 30	- 1 18 03.1	- 1 18 02.9	- 1 18 02.7	- 1 18 02.5	- 1 18 02.2
135 15 00	- 1 20 10.5	- 1 20 10.4	- 1 20 10.2	- 1 20 10.0	- 1 20 09.8
135 17 30	- 1 22 17.9	- 1 22 17.8	- 1 22 17.7	- 1 22 17.5	- 1 22 17.3
135 20 00	- 1 24 25.3	- 1 24 25.3	- 1 24 25.2	- 1 24 25.1	- 1 24 24.9
135 22 30	- 1 26 32.8	- 1 26 32.8	- 1 26 32.7	- 1 26 32.6	- 1 26 32.5
135 25 00	- 1 28 40.2	- 1 28 40.3	- 1 28 40.2	- 1 28 40.2	- 1 28 40.1
135 27 30	- 1 30 47.7	- 1 30 47.8	- 1 30 47.8	- 1 30 47.8	- 1 30 47.7
135 30 00	- 1 32 55.2	- 1 32 55.3	- 1 32 55.4	- 1 32 55.4	- 1 32 55.3

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	58 10 00	58 12 30	58 15 00	58 17 30	58 20 00
133 00 00	1.0000469	1.0000543	1.0000620	1.0000698	1.0000778
133 02 30	1.0000416	1.0000489	1.0000565	1.0000642	1.0000721
133 05 00	1.0000364	1.0000437	1.0000511	1.0000586	1.0000664
133 07 30	1.0000314	1.0000385	1.0000457	1.0000532	1.0000608
133 10 00	1.0000264	1.0000334	1.0000405	1.0000479	1.0000554
133 12 30	1.0000216	1.0000284	1.0000354	1.0000426	1.0000500
133 15 00	1.0000168	1.0000235	1.0000304	1.0000375	1.0000447
133 17 30	1.0000121	1.0000187	1.0000255	1.0000324	1.0000395
133 20 00	1.0000076	1.0000140	1.0000206	1.0000275	1.0000345
133 22 30	1.0000031	1.0000094	1.0000159	1.0000226	1.0000295
133 25 00	0.9999987	1.0000049	1.0000113	1.0000178	1.0000246
133 27 30	0.9999944	1.0000005	1.0000067	1.0000132	1.0000198
133 30 00	0.9999902	0.9999962	1.0000023	1.0000086	1.0000151
133 32 30	0.9999862	0.9999920	0.9999979	1.0000041	1.0000105
133 35 00	0.9999822	0.9999878	0.9999937	0.9999997	1.0000060
133 37 30	0.9999783	0.9999838	0.9999895	0.9999955	1.0000016
133 40 00	0.9999745	0.9999799	0.9999855	0.9999913	0.9999973
133 42 30	0.9999708	0.9999761	0.9999815	0.9999872	0.9999930
133 45 00	0.9999672	0.9999723	0.9999777	0.9999832	0.9999889
133 47 30	0.9999637	0.9999687	0.9999739	0.9999793	0.9999849
133 50 00	0.9999602	0.9999651	0.9999702	0.9999755	0.9999810
133 52 30	0.9999569	0.9999617	0.9999666	0.9999718	0.9999771
133 55 00	0.9999537	0.9999583	0.9999632	0.9999682	0.9999734
133 57 30	0.9999506	0.9999551	0.9999598	0.9999647	0.9999697
134 00 00	0.9999475	0.9999519	0.9999565	0.9999612	0.9999662
134 02 30	0.9999446	0.9999488	0.9999533	0.9999579	0.9999627
134 05 00	0.9999418	0.9999459	0.9999502	0.9999547	0.9999594
134 07 30	0.9999390	0.9999430	0.9999472	0.9999515	0.9999561
134 10 00	0.9999364	0.9999402	0.9999443	0.9999485	0.9999529
134 12 30	0.9999338	0.9999375	0.9999414	0.9999455	0.9999498
134 15 00	0.9999313	0.9999349	0.9999387	0.9999427	0.9999468
134 17 30	0.9999290	0.9999324	0.9999361	0.9999399	0.9999440
134 20 00	0.9999267	0.9999300	0.9999335	0.9999372	0.9999412
134 22 30	0.9999245	0.9999277	0.9999311	0.9999347	0.9999384
134 25 00	0.9999224	0.9999255	0.9999287	0.9999322	0.9999358
134 27 30	0.9999204	0.9999234	0.9999265	0.9999298	0.9999333
134 30 00	0.9999185	0.9999213	0.9999243	0.9999275	0.9999309
134 32 30	0.9999167	0.9999194	0.9999222	0.9999253	0.9999285
134 35 00	0.9999150	0.9999175	0.9999203	0.9999232	0.9999263
134 37 30	0.9999134	0.9999158	0.9999184	0.9999212	0.9999242
134 40 00	0.9999119	0.9999141	0.9999166	0.9999192	0.9999221
134 42 30	0.9999104	0.9999126	0.9999149	0.9999174	0.9999201
134 45 00	0.9999091	0.9999111	0.9999133	0.9999157	0.9999183
134 47 30	0.9999078	0.9999097	0.9999118	0.9999140	0.9999165
134 50 00	0.9999067	0.9999084	0.9999103	0.9999125	0.9999148
134 52 30	0.9999056	0.9999072	0.9999090	0.9999110	0.9999132
134 55 00	0.9999046	0.9999061	0.9999078	0.9999096	0.9999117
134 57 30	0.9999038	0.9999051	0.9999066	0.9999084	0.9999103
135 00 00	0.9999030	0.9999042	0.9999056	0.9999072	0.9999090
135 02 30	0.9999023	0.9999033	0.9999046	0.9999061	0.9999077
135 05 00	0.9999017	0.9999026	0.9999037	0.9999051	0.9999066
135 07 30	0.9999012	0.9999020	0.9999030	0.9999041	0.9999055
135 10 00	0.9999008	0.9999014	0.9999023	0.9999033	0.9999046
135 12 30	0.9999004	0.9999009	0.9999017	0.9999026	0.9999037
135 15 00	0.9999002	0.9999006	0.9999012	0.9999019	0.9999029
135 17 30	0.9999000	0.9999003	0.9999007	0.9999014	0.9999023
135 20 00	0.9999000	0.9999001	0.9999004	0.9999009	0.9999017
135 22 30	0.9999000	0.9999000	0.9999002	0.9999006	0.9999012
135 25 00	0.9999001	0.9999000	0.9999000	0.9999003	0.9999007
135 27 30	0.9999004	0.9999001	0.9999000	0.9999001	0.9999004
135 30 00	0.9999007	0.9999002	0.9999000	0.9999000	0.9999002

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	58 10 00	58 12 30	58 15 00	58 17 30	58 20 00
135 30 00	- 1 32 55.2	- 1 32 55.3	- 1 32 55.4	- 1 32 55.4	- 1 32 55.3
135 32 30	- 1 35 02.7	- 1 35 02.8	- 1 35 02.9	- 1 35 03.0	- 1 35 03.0
135 35 00	- 1 37 10.2	- 1 37 10.4	- 1 37 10.5	- 1 37 10.6	- 1 37 10.6
135 37 30	- 1 39 17.7	- 1 39 18.0	- 1 39 18.1	- 1 39 18.2	- 1 39 18.3
135 40 00	- 1 41 25.3	- 1 41 25.5	- 1 41 25.7	- 1 41 25.9	- 1 41 26.0
135 42 30	- 1 43 32.8	- 1 43 33.1	- 1 43 33.4	- 1 43 33.5	- 1 43 33.7
135 45 00	- 1 45 40.4	- 1 45 40.7	- 1 45 41.0	- 1 45 41.2	- 1 45 41.4
135 47 30	- 1 47 48.0	- 1 47 48.4	- 1 47 48.7	- 1 47 48.9	- 1 47 49.1
135 50 00	- 1 49 55.6	- 1 49 56.0	- 1 49 56.4	- 1 49 56.6	- 1 49 56.9
135 52 30	- 1 52 03.2	- 1 52 03.7	- 1 52 04.0	- 1 52 04.4	- 1 52 04.6
135 55 00	- 1 54 10.9	- 1 54 11.3	- 1 54 11.8	- 1 54 12.1	- 1 54 12.4
135 57 30	- 1 56 18.5	- 1 56 19.0	- 1 56 19.5	- 1 56 19.9	- 1 56 20.2
136 00 00	- 1 58 26.2	- 1 58 26.7	- 1 58 27.2	- 1 58 27.6	- 1 58 28.0
136 02 30	- 2 00 33.9	- 2 00 34.5	- 2 00 35.0	- 2 00 35.4	- 2 00 35.8
136 05 00	- 2 02 41.6	- 2 02 42.2	- 2 02 42.7	- 2 02 43.2	- 2 02 43.7
136 07 30	- 2 04 49.3	- 2 04 49.9	- 2 04 50.5	- 2 04 51.0	- 2 04 51.5
136 10 00	- 2 06 57.0	- 2 06 57.7	- 2 06 58.3	- 2 06 58.9	- 2 06 59.4
136 12 30	- 2 09 04.8	- 2 09 05.5	- 2 09 06.1	- 2 09 06.7	- 2 09 07.3
136 15 00	- 2 11 12.5	- 2 11 13.3	- 2 11 13.9	- 2 11 14.6	- 2 11 15.2
136 17 30	- 2 13 20.3	- 2 13 21.1	- 2 13 21.8	- 2 13 22.5	- 2 13 23.1
136 20 00	- 2 15 28.1	- 2 15 28.9	- 2 15 29.6	- 2 15 30.3	- 2 15 31.0
136 22 30	- 2 17 35.9	- 2 17 36.7	- 2 17 37.5	- 2 17 38.3	- 2 17 38.9
136 25 00	- 2 19 43.7	- 2 19 44.6	- 2 19 45.4	- 2 19 46.2	- 2 19 46.9
136 27 30	- 2 21 51.5	- 2 21 52.5	- 2 21 53.3	- 2 21 54.1	- 2 21 54.9
136 30 00	- 2 23 59.4	- 2 24 00.3	- 2 24 01.2	- 2 24 02.1	- 2 24 02.8
136 32 30	- 2 26 07.3	- 2 26 08.2	- 2 26 09.2	- 2 26 10.0	- 2 26 10.8
136 35 00	- 2 28 15.1	- 2 28 16.1	- 2 28 17.1	- 2 28 18.0	- 2 28 18.9
136 37 30	- 2 30 23.0	- 2 30 24.1	- 2 30 25.1	- 2 30 26.0	- 2 30 26.9
136 40 00	- 2 32 30.9	- 2 32 32.0	- 2 32 33.0	- 2 32 34.0	- 2 32 34.9
136 42 30	- 2 34 38.9	- 2 34 40.0	- 2 34 41.0	- 2 34 42.0	- 2 34 43.0
136 45 00	- 2 36 46.8	- 2 36 48.0	- 2 36 49.0	- 2 36 50.1	- 2 36 51.1
136 47 30	- 2 38 54.8	- 2 38 55.9	- 2 38 57.1	- 2 38 58.1	- 2 38 59.2
136 50 00	- 2 41 02.7	- 2 41 03.9	- 2 41 05.1	- 2 41 06.2	- 2 41 07.3
136 52 30	- 2 43 10.7	- 2 43 12.0	- 2 43 13.2	- 2 43 14.3	- 2 43 15.4
136 55 00	- 2 45 18.7	- 2 45 20.0	- 2 45 21.2	- 2 45 22.4	- 2 45 23.5
136 57 30	- 2 47 26.7	- 2 47 28.1	- 2 47 29.3	- 2 47 30.5	- 2 47 31.7
137 00 00	- 2 49 34.8	- 2 49 36.1	- 2 49 37.4	- 2 49 38.7	- 2 49 39.8
137 02 30	- 2 51 42.8	- 2 51 44.2	- 2 51 45.5	- 2 51 46.8	- 2 51 48.0
137 05 00	- 2 53 50.9	- 2 53 52.3	- 2 53 53.7	- 2 53 55.0	- 2 53 56.2
137 07 30	- 2 55 59.0	- 2 56 00.4	- 2 56 01.8	- 2 56 03.1	- 2 56 04.4
137 10 00	- 2 58 07.1	- 2 58 08.5	- 2 58 10.0	- 2 58 11.3	- 2 58 12.7
137 12 30	- 3 00 15.2	- 3 00 16.7	- 3 00 18.1	- 3 00 19.5	- 3 00 20.9
137 15 00	- 3 02 23.3	- 3 02 24.8	- 3 02 26.3	- 3 02 27.8	- 3 02 29.2
137 17 30	- 3 04 31.4	- 3 04 33.0	- 3 04 34.5	- 3 04 36.0	- 3 04 37.4
137 20 00	- 3 06 39.6	- 3 06 41.2	- 3 06 42.8	- 3 06 44.3	- 3 06 45.7
137 22 30	- 3 08 47.8	- 3 08 49.4	- 3 08 51.0	- 3 08 52.5	- 3 08 54.0
137 25 00	- 3 10 56.0	- 3 10 57.6	- 3 10 59.3	- 3 11 00.8	- 3 11 02.3
137 27 30	- 3 13 04.2	- 3 13 05.9	- 3 13 07.5	- 3 13 09.1	- 3 13 10.7
137 30 00	- 3 15 12.4	- 3 15 14.1	- 3 15 15.8	- 3 15 17.4	- 3 15 19.0
137 32 30	- 3 17 20.6	- 3 17 22.4	- 3 17 24.1	- 3 17 25.8	- 3 17 27.4
137 35 00	- 3 19 28.9	- 3 19 30.7	- 3 19 32.4	- 3 19 34.1	- 3 19 35.8
137 37 30	- 3 21 37.1	- 3 21 39.0	- 3 21 40.8	- 3 21 42.5	- 3 21 44.2
137 40 00	- 3 23 45.4	- 3 23 47.3	- 3 23 49.1	- 3 23 50.9	- 3 23 52.6
137 42 30	- 3 25 53.7	- 3 25 55.6	- 3 25 57.5	- 3 25 59.3	- 3 26 01.0
137 45 00	- 3 28 02.0	- 3 28 04.0	- 3 28 05.8	- 3 28 07.7	- 3 28 09.4
137 47 30	- 3 30 10.3	- 3 30 12.3	- 3 30 14.2	- 3 30 16.1	- 3 30 17.9
137 50 00	- 3 32 18.7	- 3 32 20.7	- 3 32 22.6	- 3 32 24.5	- 3 32 26.4
137 52 30	- 3 34 27.0	- 3 34 29.1	- 3 34 31.1	- 3 34 33.0	- 3 34 34.9
137 55 00	- 3 36 35.4	- 3 36 37.5	- 3 36 39.5	- 3 36 41.5	- 3 36 43.4
137 57 30	- 3 38 43.8	- 3 38 45.9	- 3 38 48.0	- 3 38 49.9	- 3 38 51.9
138 00 00	- 3 40 52.2	- 3 40 54.3	- 3 40 56.4	- 3 40 58.4	- 3 41 00.4

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	58 10 00	58 12 30	58 15 00	58 17 30	58 20 00
135 30 00	0.9999007	0.9999002	0.9999000	0.9999000	0.9999002
135 32 30	0.9999011	0.9999005	0.9999001	0.9999000	0.9999000
135 35 00	0.9999016	0.9999009	0.9999004	0.9999001	0.9999000
135 37 30	0.9999021	0.9999013	0.9999007	0.9999002	0.9999000
135 40 00	0.9999028	0.9999018	0.9999011	0.9999005	0.9999001
135 42 30	0.9999036	0.9999025	0.9999015	0.9999008	0.9999003
135 45 00	0.9999044	0.9999032	0.9999021	0.9999013	0.9999007
135 47 30	0.9999053	0.9999040	0.9999028	0.9999018	0.9999010
135 50 00	0.9999064	0.9999049	0.9999035	0.9999024	0.9999015
135 52 30	0.9999075	0.9999058	0.9999044	0.9999031	0.9999021
135 55 00	0.9999087	0.9999069	0.9999053	0.9999039	0.9999027
135 57 30	0.9999100	0.9999081	0.9999063	0.9999048	0.9999035
136 00 00	0.9999114	0.9999093	0.9999074	0.9999058	0.9999043
136 02 30	0.9999128	0.9999106	0.9999086	0.9999068	0.9999052
136 05 00	0.9999144	0.9999121	0.9999099	0.9999080	0.9999063
136 07 30	0.9999161	0.9999136	0.9999113	0.9999092	0.9999074
136 10 00	0.9999178	0.9999152	0.9999127	0.9999105	0.9999085
136 12 30	0.9999196	0.9999169	0.9999143	0.9999120	0.9999098
136 15 00	0.9999215	0.9999186	0.9999159	0.9999134	0.9999112
136 17 30	0.9999235	0.9999205	0.9999177	0.9999150	0.9999126
136 20 00	0.9999256	0.9999224	0.9999195	0.9999167	0.9999142
136 22 30	0.9999278	0.9999245	0.9999214	0.9999185	0.9999158
136 25 00	0.9999301	0.9999266	0.9999234	0.9999203	0.9999175
136 27 30	0.9999324	0.9999288	0.9999254	0.9999223	0.9999193
136 30 00	0.9999348	0.9999311	0.9999276	0.9999243	0.9999212
136 32 30	0.9999374	0.9999335	0.9999298	0.9999264	0.9999231
136 35 00	0.9999400	0.9999360	0.9999322	0.9999286	0.9999252
136 37 30	0.9999427	0.9999385	0.9999346	0.9999309	0.9999273
136 40 00	0.9999455	0.9999412	0.9999371	0.9999332	0.9999296
136 42 30	0.9999483	0.9999439	0.9999397	0.9999357	0.9999319
136 45 00	0.9999513	0.9999467	0.9999424	0.9999382	0.9999343
136 47 30	0.9999543	0.9999496	0.9999451	0.9999408	0.9999368
136 50 00	0.9999575	0.9999526	0.9999480	0.9999436	0.9999393
136 52 30	0.9999607	0.9999557	0.9999509	0.9999464	0.9999420
136 55 00	0.9999640	0.9999589	0.9999539	0.9999492	0.9999447
136 57 30	0.9999674	0.9999621	0.9999570	0.9999522	0.9999476
137 00 00	0.9999709	0.9999654	0.9999602	0.9999553	0.9999505
137 02 30	0.9999744	0.9999689	0.9999635	0.9999584	0.9999535
137 05 00	0.9999781	0.9999724	0.9999669	0.9999616	0.9999566
137 07 30	0.9999818	0.9999760	0.9999703	0.9999649	0.9999597
137 10 00	0.9999856	0.9999796	0.9999739	0.9999683	0.9999630
137 12 30	0.9999895	0.9999834	0.9999775	0.9999718	0.9999663
137 15 00	0.9999935	0.9999872	0.9999812	0.9999754	0.9999697
137 17 30	0.9999976	0.9999912	0.9999850	0.9999790	0.9999732
137 20 00	1.0000017	0.9999952	0.9999888	0.9999827	0.9999768
137 22 30	1.0000060	0.9999993	0.9999928	0.9999865	0.9999805
137 25 00	1.0000103	1.0000035	0.9999968	0.9999904	0.9999843
137 27 30	1.0000147	1.0000077	1.0000010	0.9999944	0.9999881
137 30 00	1.0000192	1.0000121	1.0000052	0.9999985	0.9999920
137 32 30	1.0000238	1.0000165	1.0000095	1.0000026	0.9999960
137 35 00	1.0000284	1.0000210	1.0000138	1.0000069	1.0000001
137 37 30	1.0000332	1.0000256	1.0000183	1.0000112	1.0000043
137 40 00	1.0000380	1.0000303	1.0000228	1.0000156	1.0000085
137 42 30	1.0000429	1.0000351	1.0000275	1.0000201	1.0000129
137 45 00	1.0000479	1.0000399	1.0000322	1.0000246	1.0000173
137 47 30	1.0000530	1.0000449	1.0000370	1.0000293	1.0000218
137 50 00	1.0000581	1.0000499	1.0000418	1.0000340	1.0000264
137 52 30	1.0000634	1.0000550	1.0000468	1.0000388	1.0000311
137 55 00	1.0000687	1.0000602	1.0000518	1.0000437	1.0000358
137 57 30	1.0000741	1.0000654	1.0000569	1.0000487	1.0000406
138 00 00	1.0000796	1.0000708	1.0000621	1.0000537	1.0000456

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	58 20 00	58 22 30	58 25 00	58 27 30	58 30 00
133 00 00	0 34 17.1	0 34 19.4	0 34 21.8	0 34 24.2	0 34 26.7
133 02 30	0 32 10.3	0 32 12.6	0 32 14.9	0 32 17.3	0 32 19.7
133 05 00	0 30 03.5	0 30 05.7	0 30 08.0	0 30 10.4	0 30 12.7
133 07 30	0 27 56.7	0 27 58.9	0 28 01.1	0 28 03.4	0 28 05.8
133 10 00	0 25 49.9	0 25 52.0	0 25 54.2	0 25 56.5	0 25 58.8
133 12 30	0 23 43.0	0 23 45.1	0 23 47.3	0 23 49.5	0 23 51.8
133 15 00	0 21 36.1	0 21 38.2	0 21 40.4	0 21 42.5	0 21 44.8
133 17 30	0 19 29.3	0 19 31.3	0 19 33.4	0 19 35.5	0 19 37.7
133 20 00	0 17 22.4	0 17 24.4	0 17 26.4	0 17 28.5	0 17 30.7
133 22 30	0 15 15.5	0 15 17.4	0 15 19.5	0 15 21.5	0 15 23.6
133 25 00	0 13 08.6	0 13 10.5	0 13 12.5	0 13 14.5	0 13 16.6
133 27 30	0 11 01.6	0 11 03.5	0 11 05.5	0 11 07.4	0 11 09.5
133 30 00	0 08 54.7	0 08 56.5	0 08 58.4	0 09 00.4	0 09 02.4
133 32 30	0 06 47.7	0 06 49.5	0 06 51.4	0 06 53.3	0 06 55.3
133 35 00	0 04 40.8	0 04 42.5	0 04 44.4	0 04 46.2	0 04 48.2
133 37 30	0 02 33.8	0 02 35.5	0 02 37.3	0 02 39.1	0 02 41.0
133 40 00	0 00 26.8	0 00 28.5	0 00 30.2	0 00 32.0	0 00 33.9
133 42 30	- 0 01 40.3	- 0 01 38.6	- 0 01 36.9	- 0 01 35.1	- 0 01 33.3
133 45 00	- 0 03 47.3	- 0 03 45.7	- 0 03 44.0	- 0 03 42.3	- 0 03 40.5
133 47 30	- 0 05 54.3	- 0 05 52.7	- 0 05 51.1	- 0 05 49.4	- 0 05 47.7
133 50 00	- 0 08 01.4	- 0 07 59.8	- 0 07 58.2	- 0 07 56.6	- 0 07 54.9
133 52 30	- 0 10 08.5	- 0 10 06.9	- 0 10 05.4	- 0 10 03.8	- 0 10 02.1
133 55 00	- 0 12 15.5	- 0 12 14.1	- 0 12 12.5	- 0 12 11.0	- 0 12 09.3
133 57 30	- 0 14 22.6	- 0 14 21.2	- 0 14 19.7	- 0 14 18.2	- 0 14 16.6
134 00 00	- 0 16 29.8	- 0 16 28.3	- 0 16 26.9	- 0 16 25.4	- 0 16 23.8
134 02 30	- 0 18 36.9	- 0 18 35.5	- 0 18 34.1	- 0 18 32.6	- 0 18 31.1
134 05 00	- 0 20 44.0	- 0 20 42.7	- 0 20 41.3	- 0 20 39.9	- 0 20 38.4
134 07 30	- 0 22 51.2	- 0 22 49.9	- 0 22 48.5	- 0 22 47.1	- 0 22 45.7
134 10 00	- 0 24 58.3	- 0 24 57.1	- 0 24 55.8	- 0 24 54.4	- 0 24 53.0
134 12 30	- 0 27 05.5	- 0 27 04.3	- 0 27 03.0	- 0 27 01.7	- 0 27 00.3
134 15 00	- 0 29 12.7	- 0 29 11.5	- 0 29 10.3	- 0 29 09.0	- 0 29 07.7
134 17 30	- 0 31 19.9	- 0 31 18.8	- 0 31 17.6	- 0 31 16.3	- 0 31 15.0
134 20 00	- 0 33 27.2	- 0 33 26.1	- 0 33 24.9	- 0 33 23.7	- 0 33 22.4
134 22 30	- 0 35 34.4	- 0 35 33.3	- 0 35 32.2	- 0 35 31.0	- 0 35 29.8
134 25 00	- 0 37 41.7	- 0 37 40.6	- 0 37 39.5	- 0 37 38.4	- 0 37 37.2
134 27 30	- 0 39 48.9	- 0 39 47.9	- 0 39 46.9	- 0 39 45.8	- 0 39 44.6
134 30 00	- 0 41 56.2	- 0 41 55.2	- 0 41 54.2	- 0 41 53.2	- 0 41 52.0
134 32 30	- 0 44 03.5	- 0 44 02.6	- 0 44 01.6	- 0 44 00.6	- 0 43 59.5
134 35 00	- 0 46 10.8	- 0 46 09.9	- 0 46 09.0	- 0 46 08.0	- 0 46 06.9
134 37 30	- 0 48 18.1	- 0 48 17.3	- 0 48 16.4	- 0 48 15.4	- 0 48 14.4
134 40 00	- 0 50 25.5	- 0 50 24.7	- 0 50 23.8	- 0 50 22.9	- 0 50 21.9
134 42 30	- 0 52 32.8	- 0 52 32.1	- 0 52 31.2	- 0 52 30.3	- 0 52 29.4
134 45 00	- 0 54 40.2	- 0 54 39.5	- 0 54 38.7	- 0 54 37.8	- 0 54 36.9
134 47 30	- 0 56 47.6	- 0 56 46.9	- 0 56 46.1	- 0 56 45.3	- 0 56 44.4
134 50 00	- 0 58 55.0	- 0 58 54.3	- 0 58 53.6	- 0 58 52.8	- 0 58 52.0
134 52 30	- 1 01 02.4	- 1 01 01.8	- 1 01 01.1	- 1 01 00.3	- 1 00 59.5
134 55 00	- 1 03 09.8	- 1 03 09.2	- 1 03 08.6	- 1 03 07.9	- 1 03 07.1
134 57 30	- 1 05 17.3	- 1 05 16.7	- 1 05 16.1	- 1 05 15.4	- 1 05 14.7
135 00 00	- 1 07 24.7	- 1 07 24.2	- 1 07 23.6	- 1 07 23.0	- 1 07 22.3
135 02 30	- 1 09 32.2	- 1 09 31.7	- 1 09 31.2	- 1 09 30.6	- 1 09 29.9
135 05 00	- 1 11 39.7	- 1 11 39.2	- 1 11 38.7	- 1 11 38.1	- 1 11 37.5
135 07 30	- 1 13 47.2	- 1 13 46.7	- 1 13 46.3	- 1 13 45.8	- 1 13 45.2
135 10 00	- 1 15 54.7	- 1 15 54.3	- 1 15 53.9	- 1 15 53.4	- 1 15 52.8
135 12 30	- 1 18 02.2	- 1 18 01.9	- 1 18 01.5	- 1 18 01.0	- 1 18 00.5
135 15 00	- 1 20 09.8	- 1 20 09.4	- 1 20 09.1	- 1 20 08.7	- 1 20 08.2
135 17 30	- 1 22 17.3	- 1 22 17.0	- 1 22 16.7	- 1 22 16.3	- 1 22 15.9
135 20 00	- 1 24 24.9	- 1 24 24.6	- 1 24 24.3	- 1 24 24.0	- 1 24 23.6
135 22 30	- 1 26 32.5	- 1 26 32.3	- 1 26 32.0	- 1 26 31.7	- 1 26 31.3
135 25 00	- 1 28 40.1	- 1 28 39.9	- 1 28 39.7	- 1 28 39.4	- 1 28 39.1
135 27 30	- 1 30 47.7	- 1 30 47.5	- 1 30 47.4	- 1 30 47.1	- 1 30 46.8
135 30 00	- 1 32 55.3	- 1 32 55.2	- 1 32 55.1	- 1 32 54.8	- 1 32 54.6

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	58 20 00	58 22 30	58 25 00	58 27 30	58 30 00
133 00 00	1.0000778	1.0000860	1.0000944	1.0001030	1.0001118
133 02 30	1.0000721	1.0000801	1.0000884	1.0000969	1.0001055
133 05 00	1.0000664	1.0000744	1.0000825	1.0000908	1.0000993
133 07 30	1.0000608	1.0000687	1.0000767	1.0000849	1.0000933
133 10 00	1.0000554	1.0000631	1.0000710	1.0000790	1.0000873
133 12 30	1.0000500	1.0000576	1.0000653	1.0000733	1.0000814
133 15 00	1.0000447	1.0000522	1.0000598	1.0000676	1.0000756
133 17 30	1.0000395	1.0000469	1.0000544	1.0000621	1.0000699
133 20 00	1.0000345	1.0000417	1.0000490	1.0000566	1.0000644
133 22 30	1.0000295	1.0000365	1.0000438	1.0000512	1.0000589
133 25 00	1.0000246	1.0000315	1.0000387	1.0000460	1.0000535
133 27 30	1.0000198	1.0000266	1.0000336	1.0000408	1.0000482
133 30 00	1.0000151	1.0000218	1.0000287	1.0000357	1.0000430
133 32 30	1.0000105	1.0000171	1.0000238	1.0000307	1.0000379
133 35 00	1.0000060	1.0000124	1.0000190	1.0000258	1.0000328
133 37 30	1.0000016	1.0000079	1.0000144	1.0000211	1.0000279
133 40 00	0.9999973	1.0000034	1.0000098	1.0000164	1.0000231
133 42 30	0.9999930	0.9999991	1.0000053	1.0000118	1.0000184
133 45 00	0.9999889	0.9999948	1.0000010	1.0000072	1.0000137
133 47 30	0.9999849	0.9999907	0.9999967	1.0000028	1.0000092
133 50 00	0.9999810	0.9999866	0.9999925	0.9999985	1.0000048
133 52 30	0.9999771	0.9999827	0.9999884	0.9999943	1.0000004
133 55 00	0.9999734	0.9999788	0.9999844	0.9999902	0.9999961
133 57 30	0.9999697	0.9999750	0.9999805	0.9999861	0.9999920
134 00 00	0.9999662	0.9999713	0.9999767	0.9999822	0.9999879
134 02 30	0.9999627	0.9999677	0.9999729	0.9999783	0.9999839
134 05 00	0.9999594	0.9999642	0.9999693	0.9999746	0.9999801
134 07 30	0.9999561	0.9999608	0.9999658	0.9999709	0.9999763
134 10 00	0.9999529	0.9999575	0.9999624	0.9999674	0.9999726
134 12 30	0.9999498	0.9999543	0.9999590	0.9999639	0.9999690
134 15 00	0.9999468	0.9999512	0.9999558	0.9999605	0.9999655
134 17 30	0.9999440	0.9999482	0.9999526	0.9999572	0.9999621
134 20 00	0.9999412	0.9999453	0.9999496	0.9999540	0.9999587
134 22 30	0.9999384	0.9999424	0.9999466	0.9999509	0.9999555
134 25 00	0.9999358	0.9999397	0.9999437	0.9999479	0.9999524
134 27 30	0.9999333	0.9999370	0.9999409	0.9999450	0.9999493
134 30 00	0.9999309	0.9999345	0.9999382	0.9999422	0.9999464
134 32 30	0.9999285	0.9999320	0.9999356	0.9999395	0.9999435
134 35 00	0.9999263	0.9999296	0.9999331	0.9999368	0.9999407
134 37 30	0.9999242	0.9999273	0.9999307	0.9999343	0.9999381
134 40 00	0.9999221	0.9999251	0.9999284	0.9999318	0.9999355
134 42 30	0.9999201	0.9999231	0.9999262	0.9999295	0.9999330
134 45 00	0.9999183	0.9999210	0.9999240	0.9999272	0.9999306
134 47 30	0.9999165	0.9999191	0.9999220	0.9999250	0.9999283
134 50 00	0.9999148	0.9999173	0.9999200	0.9999230	0.9999261
134 52 30	0.9999132	0.9999156	0.9999182	0.9999210	0.9999240
134 55 00	0.9999117	0.9999139	0.9999164	0.9999191	0.9999219
134 57 30	0.9999103	0.9999124	0.9999147	0.9999173	0.9999200
135 00 00	0.9999090	0.9999109	0.9999131	0.9999155	0.9999181
135 02 30	0.9999077	0.9999096	0.9999116	0.9999139	0.9999164
135 05 00	0.9999066	0.9999083	0.9999102	0.9999124	0.9999147
135 07 30	0.9999055	0.9999071	0.9999089	0.9999109	0.9999131
135 10 00	0.9999046	0.9999060	0.9999077	0.9999096	0.9999116
135 12 30	0.9999037	0.9999050	0.9999066	0.9999083	0.9999102
135 15 00	0.9999029	0.9999041	0.9999055	0.9999071	0.9999089
135 17 30	0.9999023	0.9999033	0.9999046	0.9999060	0.9999077
135 20 00	0.9999017	0.9999026	0.9999037	0.9999050	0.9999066
135 22 30	0.9999012	0.9999019	0.9999029	0.9999041	0.9999055
135 25 00	0.9999007	0.9999014	0.9999023	0.9999033	0.9999046
135 27 30	0.9999004	0.9999009	0.9999017	0.9999026	0.9999037
135 30 00	0.9999002	0.9999006	0.9999012	0.9999019	0.9999029

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	58 20 00	58 22 30	58 25 00	58 27 30	58 30 00
135 30 00	- 1 32 55.3	- 1 32 55.2	- 1 32 55.1	- 1 32 54.8	- 1 32 54.6
135 32 30	- 1 35 03.0	- 1 35 02.9	- 1 35 02.8	- 1 35 02.6	- 1 35 02.4
135 35 00	- 1 37 10.6	- 1 37 10.6	- 1 37 10.5	- 1 37 10.4	- 1 37 10.2
135 37 30	- 1 39 18.3	- 1 39 18.3	- 1 39 18.2	- 1 39 18.1	- 1 39 18.0
135 40 00	- 1 41 26.0	- 1 41 26.0	- 1 41 26.0	- 1 41 25.9	- 1 41 25.8
135 42 30	- 1 43 33.7	- 1 43 33.7	- 1 43 33.8	- 1 43 33.7	- 1 43 33.7
135 45 00	- 1 45 41.4	- 1 45 41.5	- 1 45 41.6	- 1 45 41.6	- 1 45 41.5
135 47 30	- 1 47 49.1	- 1 47 49.3	- 1 47 49.4	- 1 47 49.4	- 1 47 49.4
135 50 00	- 1 49 56.9	- 1 49 57.1	- 1 49 57.2	- 1 49 57.2	- 1 49 57.3
135 52 30	- 1 52 04.6	- 1 52 04.8	- 1 52 05.0	- 1 52 05.1	- 1 52 05.2
135 55 00	- 1 54 12.4	- 1 54 12.7	- 1 54 12.9	- 1 54 13.0	- 1 54 13.1
135 57 30	- 1 56 20.2	- 1 56 20.5	- 1 56 20.7	- 1 56 20.9	- 1 56 21.0
136 00 00	- 1 58 28.0	- 1 58 28.3	- 1 58 28.6	- 1 58 28.8	- 1 58 29.0
136 02 30	- 2 00 35.8	- 2 00 36.2	- 2 00 36.5	- 2 00 36.7	- 2 00 36.9
136 05 00	- 2 02 43.7	- 2 02 44.1	- 2 02 44.4	- 2 02 44.7	- 2 02 44.9
136 07 30	- 2 04 51.5	- 2 04 51.9	- 2 04 52.3	- 2 04 52.6	- 2 04 52.9
136 10 00	- 2 06 59.4	- 2 06 59.8	- 2 07 00.2	- 2 07 00.6	- 2 07 00.9
136 12 30	- 2 09 07.3	- 2 09 07.8	- 2 09 08.2	- 2 09 08.6	- 2 09 08.9
136 15 00	- 2 11 15.2	- 2 11 15.7	- 2 11 16.2	- 2 11 16.6	- 2 11 16.9
136 17 30	- 2 13 23.1	- 2 13 23.6	- 2 13 24.1	- 2 13 24.6	- 2 13 25.0
136 20 00	- 2 15 31.0	- 2 15 31.6	- 2 15 32.1	- 2 15 32.6	- 2 15 33.0
136 22 30	- 2 17 38.9	- 2 17 39.6	- 2 17 40.1	- 2 17 40.7	- 2 17 41.1
136 25 00	- 2 19 46.9	- 2 19 47.5	- 2 19 48.2	- 2 19 48.7	- 2 19 49.2
136 27 30	- 2 21 54.9	- 2 21 55.6	- 2 21 56.2	- 2 21 56.8	- 2 21 57.3
136 30 00	- 2 24 02.8	- 2 24 03.6	- 2 24 04.2	- 2 24 04.9	- 2 24 05.4
136 32 30	- 2 26 10.8	- 2 26 11.6	- 2 26 12.3	- 2 26 13.0	- 2 26 13.6
136 35 00	- 2 28 18.9	- 2 28 19.7	- 2 28 20.4	- 2 28 21.1	- 2 28 21.7
136 37 30	- 2 30 26.9	- 2 30 27.7	- 2 30 28.5	- 2 30 29.2	- 2 30 29.9
136 40 00	- 2 32 34.9	- 2 32 35.8	- 2 32 36.6	- 2 32 37.4	- 2 32 38.1
136 42 30	- 2 34 43.0	- 2 34 43.9	- 2 34 44.7	- 2 34 45.5	- 2 34 46.3
136 45 00	- 2 36 51.1	- 2 36 52.0	- 2 36 52.9	- 2 36 53.7	- 2 36 54.5
136 47 30	- 2 38 59.2	- 2 39 00.1	- 2 39 01.0	- 2 39 01.9	- 2 39 02.7
136 50 00	- 2 41 07.3	- 2 41 08.3	- 2 41 09.2	- 2 41 10.1	- 2 41 10.9
136 52 30	- 2 43 15.4	- 2 43 16.4	- 2 43 17.4	- 2 43 18.3	- 2 43 19.2
136 55 00	- 2 45 23.5	- 2 45 24.6	- 2 45 25.6	- 2 45 26.6	- 2 45 27.5
136 57 30	- 2 47 31.7	- 2 47 32.8	- 2 47 33.8	- 2 47 34.8	- 2 47 35.7
137 00 00	- 2 49 39.8	- 2 49 41.0	- 2 49 42.1	- 2 49 43.1	- 2 49 44.0
137 02 30	- 2 51 48.0	- 2 51 49.2	- 2 51 50.3	- 2 51 51.4	- 2 51 52.4
137 05 00	- 2 53 56.2	- 2 53 57.4	- 2 53 58.6	- 2 53 59.7	- 2 54 00.7
137 07 30	- 2 56 04.4	- 2 56 05.7	- 2 56 06.8	- 2 56 08.0	- 2 56 09.0
137 10 00	- 2 58 12.7	- 2 58 13.9	- 2 58 15.1	- 2 58 16.3	- 2 58 17.4
137 12 30	- 3 00 20.9	- 3 00 22.2	- 3 00 23.4	- 3 00 24.6	- 3 00 25.8
137 15 00	- 3 02 29.2	- 3 02 30.5	- 3 02 31.8	- 3 02 33.0	- 3 02 34.2
137 17 30	- 3 04 37.4	- 3 04 38.8	- 3 04 40.1	- 3 04 41.4	- 3 04 42.6
137 20 00	- 3 06 45.7	- 3 06 47.1	- 3 06 48.5	- 3 06 49.7	- 3 06 51.0
137 22 30	- 3 08 54.0	- 3 08 55.5	- 3 08 56.8	- 3 08 58.1	- 3 08 59.4
137 25 00	- 3 11 02.3	- 3 11 03.8	- 3 11 05.2	- 3 11 06.6	- 3 11 07.9
137 27 30	- 3 13 10.7	- 3 13 12.2	- 3 13 13.6	- 3 13 15.0	- 3 13 16.3
137 30 00	- 3 15 19.0	- 3 15 20.6	- 3 15 22.0	- 3 15 23.4	- 3 15 24.8
137 32 30	- 3 17 27.4	- 3 17 28.9	- 3 17 30.5	- 3 17 31.9	- 3 17 33.3
137 35 00	- 3 19 35.8	- 3 19 37.4	- 3 19 38.9	- 3 19 40.4	- 3 19 41.8
137 37 30	- 3 21 44.2	- 3 21 45.8	- 3 21 47.4	- 3 21 48.9	- 3 21 50.3
137 40 00	- 3 23 52.6	- 3 23 54.2	- 3 23 55.8	- 3 23 57.4	- 3 23 58.9
137 42 30	- 3 26 01.0	- 3 26 02.7	- 3 26 04.3	- 3 26 05.9	- 3 26 07.4
137 45 00	- 3 28 09.4	- 3 28 11.2	- 3 28 12.8	- 3 28 14.5	- 3 28 16.0
137 47 30	- 3 30 17.9	- 3 30 19.7	- 3 30 21.4	- 3 30 23.0	- 3 30 24.6
137 50 00	- 3 32 26.4	- 3 32 28.2	- 3 32 29.9	- 3 32 31.6	- 3 32 33.2
137 52 30	- 3 34 34.9	- 3 34 36.7	- 3 34 38.4	- 3 34 40.2	- 3 34 41.8
137 55 00	- 3 36 43.4	- 3 36 45.2	- 3 36 47.0	- 3 36 48.8	- 3 36 50.5
137 57 30	- 3 38 51.9	- 3 38 53.8	- 3 38 55.6	- 3 38 57.4	- 3 38 59.1
138 00 00	- 3 41 00.4	- 3 41 02.3	- 3 41 04.2	- 3 41 06.0	- 3 41 07.8

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	58 20 00	58 22 30	58 25 00	58 27 30	58 30 00
135 30 00	0.9999002	0.9999006	0.9999012	0.9999019	0.9999029
135 32 30	0.9999000	0.9999003	0.9999007	0.9999014	0.9999023
135 35 00	0.9999000	0.9999001	0.9999004	0.9999009	0.9999017
135 37 30	0.9999000	0.9999000	0.9999002	0.9999006	0.9999012
135 40 00	0.9999001	0.9999000	0.9999000	0.9999003	0.9999007
135 42 30	0.9999003	0.9999001	0.9999000	0.9999001	0.9999004
135 45 00	0.9999007	0.9999002	0.9999000	0.9999000	0.9999002
135 47 30	0.9999010	0.9999005	0.9999001	0.9999000	0.9999000
135 50 00	0.9999015	0.9999008	0.9999003	0.9999000	0.9999000
135 52 30	0.9999021	0.9999013	0.9999006	0.9999002	0.9999000
135 55 00	0.9999027	0.9999018	0.9999010	0.9999005	0.9999001
135 57 30	0.9999035	0.9999024	0.9999015	0.9999008	0.9999003
136 00 00	0.9999043	0.9999031	0.9999020	0.9999012	0.9999006
136 02 30	0.9999052	0.9999039	0.9999027	0.9999017	0.9999010
136 05 00	0.9999063	0.9999047	0.9999034	0.9999023	0.9999014
136 07 30	0.9999074	0.9999057	0.9999043	0.9999030	0.9999020
136 10 00	0.9999085	0.9999067	0.9999052	0.9999038	0.9999026
136 12 30	0.9999098	0.9999079	0.9999062	0.9999047	0.9999034
136 15 00	0.9999112	0.9999091	0.9999073	0.9999056	0.9999042
136 17 30	0.9999126	0.9999104	0.9999084	0.9999066	0.9999051
136 20 00	0.9999142	0.9999118	0.9999097	0.9999078	0.9999061
136 22 30	0.9999158	0.9999133	0.9999110	0.9999090	0.9999071
136 25 00	0.9999175	0.9999149	0.9999125	0.9999103	0.9999083
136 27 30	0.9999193	0.9999165	0.9999140	0.9999117	0.9999095
136 30 00	0.9999212	0.9999183	0.9999156	0.9999131	0.9999109
136 32 30	0.9999231	0.9999201	0.9999173	0.9999147	0.9999123
136 35 00	0.9999252	0.9999220	0.9999191	0.9999163	0.9999138
136 37 30	0.9999273	0.9999240	0.9999209	0.9999181	0.9999154
136 40 00	0.9999296	0.9999261	0.9999229	0.9999199	0.9999171
136 42 30	0.9999319	0.9999283	0.9999249	0.9999218	0.9999188
136 45 00	0.9999343	0.9999306	0.9999270	0.9999238	0.9999207
136 47 30	0.9999368	0.9999329	0.9999293	0.9999258	0.9999226
136 50 00	0.9999393	0.9999353	0.9999315	0.9999280	0.9999246
136 52 30	0.9999420	0.9999379	0.9999339	0.9999302	0.9999267
136 55 00	0.9999447	0.9999405	0.9999364	0.9999325	0.9999289
136 57 30	0.9999476	0.9999431	0.9999389	0.9999349	0.9999312
137 00 00	0.9999505	0.9999459	0.9999416	0.9999374	0.9999335
137 02 30	0.9999535	0.9999488	0.9999443	0.9999400	0.9999360
137 05 00	0.9999566	0.9999517	0.9999471	0.9999427	0.9999385
137 07 30	0.9999597	0.9999547	0.9999500	0.9999454	0.9999411
137 10 00	0.9999630	0.9999579	0.9999530	0.9999483	0.9999438
137 12 30	0.9999663	0.9999611	0.9999560	0.9999512	0.9999466
137 15 00	0.9999697	0.9999643	0.9999592	0.9999542	0.9999494
137 17 30	0.9999732	0.9999677	0.9999624	0.9999573	0.9999524
137 20 00	0.9999768	0.9999711	0.9999657	0.9999604	0.9999554
137 22 30	0.9999805	0.9999747	0.9999691	0.9999637	0.9999585
137 25 00	0.9999843	0.9999783	0.9999725	0.9999670	0.9999617
137 27 30	0.9999881	0.9999820	0.9999761	0.9999704	0.9999650
137 30 00	0.9999920	0.9999858	0.9999797	0.9999739	0.9999683
137 32 30	0.9999960	0.9999896	0.9999835	0.9999775	0.9999718
137 35 00	1.0000001	0.9999936	0.9999873	0.9999812	0.9999753
137 37 30	1.0000043	0.9999976	0.9999912	0.9999849	0.9999789
137 40 00	1.0000085	1.0000017	0.9999951	0.9999888	0.9999826
137 42 30	1.0000129	1.0000059	0.9999992	0.9999927	0.9999864
137 45 00	1.0000173	1.0000102	1.0000033	0.9999967	0.9999902
137 47 30	1.0000218	1.0000146	1.0000076	1.0000008	0.9999942
137 50 00	1.0000264	1.0000190	1.0000119	1.0000049	0.9999982
137 52 30	1.0000311	1.0000235	1.0000162	1.0000092	1.0000023
137 55 00	1.0000358	1.0000281	1.0000207	1.0000135	1.0000065
137 57 30	1.0000406	1.0000328	1.0000253	1.0000179	1.0000107
138 00 00	1.0000456	1.0000376	1.0000299	1.0000224	1.0000151

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	58 30 00	58 32 30	58 35 00	58 37 30	58 40 00
133 00 00	0 34 26.7	0 34 29.2	0 34 31.7	0 34 34.3	0 34 37.0
133 02 30	0 32 19.7	0 32 22.2	0 32 24.7	0 32 27.3	0 32 29.9
133 05 00	0 30 12.7	0 30 15.2	0 30 17.7	0 30 20.2	0 30 22.8
133 07 30	0 28 05.8	0 28 08.2	0 28 10.6	0 28 13.1	0 28 15.7
133 10 00	0 25 58.8	0 26 01.1	0 26 03.6	0 26 06.0	0 26 08.5
133 12 30	0 23 51.8	0 23 54.1	0 23 56.5	0 23 58.9	0 24 01.4
133 15 00	0 21 44.8	0 21 47.1	0 21 49.4	0 21 51.8	0 21 54.2
133 17 30	0 19 37.7	0 19 40.0	0 19 42.3	0 19 44.6	0 19 47.0
133 20 00	0 17 30.7	0 17 32.9	0 17 35.2	0 17 37.5	0 17 39.8
133 22 30	0 15 23.6	0 15 25.8	0 15 28.0	0 15 30.3	0 15 32.6
133 25 00	0 13 16.6	0 13 18.7	0 13 20.9	0 13 23.1	0 13 25.4
133 27 30	0 11 09.5	0 11 11.6	0 11 13.7	0 11 15.9	0 11 18.2
133 30 00	0 09 02.4	0 09 04.5	0 09 06.6	0 09 08.7	0 09 10.9
133 32 30	0 06 55.3	0 06 57.3	0 06 59.4	0 07 01.5	0 07 03.7
133 35 00	0 04 48.2	0 04 50.1	0 04 52.2	0 04 54.3	0 04 56.4
133 37 30	0 02 41.0	0 02 43.0	0 02 45.0	0 02 47.0	0 02 49.1
133 40 00	0 00 33.9	0 00 35.8	0 00 37.7	0 00 39.8	0 00 41.8
133 42 30	- 0 01 33.3	- 0 01 31.4	- 0 01 29.5	- 0 01 27.5	- 0 01 25.5
133 45 00	- 0 03 40.5	- 0 03 38.6	- 0 03 36.8	- 0 03 34.8	- 0 03 32.8
133 47 30	- 0 05 47.7	- 0 05 45.9	- 0 05 44.0	- 0 05 42.1	- 0 05 40.2
133 50 00	- 0 07 54.9	- 0 07 53.1	- 0 07 51.3	- 0 07 49.4	- 0 07 47.5
133 52 30	- 0 10 02.1	- 0 10 00.4	- 0 09 58.6	- 0 09 56.8	- 0 09 54.9
133 55 00	- 0 12 09.3	- 0 12 07.6	- 0 12 05.9	- 0 12 04.1	- 0 12 02.3
133 57 30	- 0 14 16.6	- 0 14 14.9	- 0 14 13.2	- 0 14 11.5	- 0 14 09.7
134 00 00	- 0 16 23.8	- 0 16 22.2	- 0 16 20.6	- 0 16 18.8	- 0 16 17.1
134 02 30	- 0 18 31.1	- 0 18 29.5	- 0 18 27.9	- 0 18 26.2	- 0 18 24.5
134 05 00	- 0 20 38.4	- 0 20 36.9	- 0 20 35.3	- 0 20 33.6	- 0 20 31.9
134 07 30	- 0 22 45.7	- 0 22 44.2	- 0 22 42.6	- 0 22 41.0	- 0 22 39.4
134 10 00	- 0 24 53.0	- 0 24 51.6	- 0 24 50.0	- 0 24 48.5	- 0 24 46.8
134 12 30	- 0 27 00.3	- 0 26 58.9	- 0 26 57.4	- 0 26 55.9	- 0 26 54.3
134 15 00	- 0 29 07.7	- 0 29 06.3	- 0 29 04.9	- 0 29 03.4	- 0 29 01.8
134 17 30	- 0 31 15.0	- 0 31 13.7	- 0 31 12.3	- 0 31 10.8	- 0 31 09.3
134 20 00	- 0 33 22.4	- 0 33 21.1	- 0 33 19.7	- 0 33 18.3	- 0 33 16.8
134 22 30	- 0 35 29.8	- 0 35 28.5	- 0 35 27.2	- 0 35 25.8	- 0 35 24.4
134 25 00	- 0 37 37.2	- 0 37 36.0	- 0 37 34.7	- 0 37 33.3	- 0 37 31.9
134 27 30	- 0 39 44.6	- 0 39 43.4	- 0 39 42.2	- 0 39 40.8	- 0 39 39.5
134 30 00	- 0 41 52.0	- 0 41 50.9	- 0 41 49.7	- 0 41 48.4	- 0 41 47.1
134 32 30	- 0 43 59.5	- 0 43 58.4	- 0 43 57.2	- 0 43 55.9	- 0 43 54.6
134 35 00	- 0 46 06.9	- 0 46 05.9	- 0 46 04.7	- 0 46 03.5	- 0 46 02.2
134 37 30	- 0 48 14.4	- 0 48 13.4	- 0 48 12.2	- 0 48 11.1	- 0 48 09.9
134 40 00	- 0 50 21.9	- 0 50 20.9	- 0 50 19.8	- 0 50 18.7	- 0 50 17.5
134 42 30	- 0 52 29.4	- 0 52 28.4	- 0 52 27.4	- 0 52 26.3	- 0 52 25.1
134 45 00	- 0 54 36.9	- 0 54 36.0	- 0 54 35.0	- 0 54 33.9	- 0 54 32.8
134 47 30	- 0 56 44.4	- 0 56 43.5	- 0 56 42.6	- 0 56 41.5	- 0 56 40.5
134 50 00	- 0 58 52.0	- 0 58 51.1	- 0 58 50.2	- 0 58 49.2	- 0 58 48.1
134 52 30	- 1 00 59.5	- 1 00 58.7	- 1 00 57.8	- 1 00 56.8	- 1 00 55.8
134 55 00	- 1 03 07.1	- 1 03 06.3	- 1 03 05.4	- 1 03 04.5	- 1 03 03.6
134 57 30	- 1 05 14.7	- 1 05 13.9	- 1 05 13.1	- 1 05 12.2	- 1 05 11.3
135 00 00	- 1 07 22.3	- 1 07 21.6	- 1 07 20.8	- 1 07 19.9	- 1 07 19.0
135 02 30	- 1 09 29.9	- 1 09 29.2	- 1 09 28.4	- 1 09 27.6	- 1 09 26.8
135 05 00	- 1 11 37.5	- 1 11 36.9	- 1 11 36.1	- 1 11 35.4	- 1 11 34.5
135 07 30	- 1 13 45.2	- 1 13 44.5	- 1 13 43.9	- 1 13 43.1	- 1 13 42.3
135 10 00	- 1 15 52.8	- 1 15 52.2	- 1 15 51.6	- 1 15 50.9	- 1 15 50.1
135 12 30	- 1 18 00.5	- 1 17 59.9	- 1 17 59.3	- 1 17 58.7	- 1 17 57.9
135 15 00	- 1 20 08.2	- 1 20 07.7	- 1 20 07.1	- 1 20 06.4	- 1 20 05.8
135 17 30	- 1 22 15.9	- 1 22 15.4	- 1 22 14.8	- 1 22 14.3	- 1 22 13.6
135 20 00	- 1 24 23.6	- 1 24 23.1	- 1 24 22.6	- 1 24 22.1	- 1 24 21.5
135 22 30	- 1 26 31.3	- 1 26 30.9	- 1 26 30.4	- 1 26 29.9	- 1 26 29.3
135 25 00	- 1 28 39.1	- 1 28 38.7	- 1 28 38.2	- 1 28 37.8	- 1 28 37.2
135 27 30	- 1 30 46.8	- 1 30 46.5	- 1 30 46.1	- 1 30 45.6	- 1 30 45.1
135 30 00	- 1 32 54.6	- 1 32 54.3	- 1 32 53.9	- 1 32 53.5	- 1 32 53.0

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	58 30 00	58 32 30	58 35 00	58 37 30	58 40 00
133 00 00	1.0001118	1.0001207	1.0001298	1.0001391	1.0001486
133 02 30	1.0001055	1.0001143	1.0001233	1.0001325	1.0001419
133 05 00	1.0000993	1.0001080	1.0001169	1.0001260	1.0001352
133 07 30	1.0000933	1.0001018	1.0001106	1.0001195	1.0001287
133 10 00	1.0000873	1.0000957	1.0001044	1.0001132	1.0001222
133 12 30	1.0000814	1.0000897	1.0000982	1.0001069	1.0001158
133 15 00	1.0000756	1.0000838	1.0000922	1.0001008	1.0001095
133 17 30	1.0000699	1.0000780	1.0000863	1.0000947	1.0001033
133 20 00	1.0000644	1.0000723	1.0000804	1.0000888	1.0000973
133 22 30	1.0000589	1.0000667	1.0000747	1.0000829	1.0000913
133 25 00	1.0000535	1.0000612	1.0000690	1.0000771	1.0000854
133 27 30	1.0000482	1.0000557	1.0000635	1.0000714	1.0000796
133 30 00	1.0000430	1.0000504	1.0000580	1.0000659	1.0000739
133 32 30	1.0000379	1.0000452	1.0000527	1.0000604	1.0000682
133 35 00	1.0000328	1.0000400	1.0000474	1.0000550	1.0000627
133 37 30	1.0000279	1.0000350	1.0000422	1.0000497	1.0000573
133 40 00	1.0000231	1.0000300	1.0000372	1.0000445	1.0000520
133 42 30	1.0000184	1.0000252	1.0000322	1.0000394	1.0000467
133 45 00	1.0000137	1.0000204	1.0000273	1.0000343	1.0000416
133 47 30	1.0000092	1.0000157	1.0000225	1.0000294	1.0000365
133 50 00	1.0000048	1.0000112	1.0000178	1.0000246	1.0000316
133 52 30	1.0000004	1.0000067	1.0000132	1.0000199	1.0000267
133 55 00	0.9999961	1.0000023	1.0000087	1.0000152	1.0000220
133 57 30	0.9999920	0.9999980	1.0000043	1.0000107	1.0000173
134 00 00	0.9999879	0.9999938	0.9999999	1.0000062	1.0000127
134 02 30	0.9999839	0.9999897	0.9999957	1.0000019	1.0000082
134 05 00	0.9999801	0.9999857	0.9999916	0.9999976	1.0000038
134 07 30	0.9999763	0.9999818	0.9999875	0.9999934	0.9999995
134 10 00	0.9999726	0.9999780	0.9999836	0.9999894	0.9999953
134 12 30	0.9999690	0.9999742	0.9999797	0.9999854	0.9999912
134 15 00	0.9999655	0.9999706	0.9999759	0.9999815	0.9999872
134 17 30	0.9999621	0.9999671	0.9999723	0.9999777	0.9999833
134 20 00	0.9999587	0.9999636	0.9999687	0.9999740	0.9999794
134 22 30	0.9999555	0.9999603	0.9999652	0.9999703	0.9999757
134 25 00	0.9999524	0.9999570	0.9999618	0.9999668	0.9999720
134 27 30	0.9999493	0.9999538	0.9999585	0.9999634	0.9999685
134 30 00	0.9999464	0.9999507	0.9999553	0.9999601	0.9999650
134 32 30	0.9999435	0.9999477	0.9999522	0.9999568	0.9999616
134 35 00	0.9999407	0.9999448	0.9999492	0.9999536	0.9999583
134 37 30	0.9999381	0.9999420	0.9999462	0.9999506	0.9999551
134 40 00	0.9999355	0.9999393	0.9999434	0.9999476	0.9999520
134 42 30	0.9999330	0.9999367	0.9999406	0.9999447	0.9999490
134 45 00	0.9999306	0.9999342	0.9999380	0.9999419	0.9999461
134 47 30	0.9999283	0.9999317	0.9999354	0.9999392	0.9999433
134 50 00	0.9999261	0.9999294	0.9999329	0.9999366	0.9999405
134 52 30	0.9999240	0.9999271	0.9999305	0.9999341	0.9999379
134 55 00	0.9999219	0.9999250	0.9999282	0.9999317	0.9999353
134 57 30	0.9999200	0.9999229	0.9999260	0.9999293	0.9999329
135 00 00	0.9999181	0.9999209	0.9999239	0.9999271	0.9999305
135 02 30	0.9999164	0.9999190	0.9999219	0.9999249	0.9999282
135 05 00	0.9999147	0.9999172	0.9999199	0.9999229	0.9999260
135 07 30	0.9999131	0.9999155	0.9999181	0.9999209	0.9999239
135 10 00	0.9999116	0.9999139	0.9999164	0.9999190	0.9999219
135 12 30	0.9999102	0.9999124	0.9999147	0.9999172	0.9999200
135 15 00	0.9999089	0.9999109	0.9999131	0.9999155	0.9999181
135 17 30	0.9999077	0.9999096	0.9999116	0.9999139	0.9999164
135 20 00	0.9999066	0.9999083	0.9999102	0.9999124	0.9999147
135 22 30	0.9999055	0.9999071	0.9999089	0.9999109	0.9999131
135 25 00	0.9999046	0.9999060	0.9999077	0.9999096	0.9999117
135 27 30	0.9999037	0.9999050	0.9999066	0.9999083	0.9999103
135 30 00	0.9999029	0.9999041	0.9999055	0.9999072	0.9999090

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	58 30 00	58 32 30	58 35 00	58 37 30	58 40 00
135 30 00	- 1 32 54.6	- 1 32 54.3	- 1 32 53.9	- 1 32 53.5	- 1 32 53.0
135 32 30	- 1 35 02.4	- 1 35 02.1	- 1 35 01.8	- 1 35 01.4	- 1 35 00.9
135 35 00	- 1 37 10.2	- 1 37 09.9	- 1 37 09.6	- 1 37 09.3	- 1 37 08.9
135 37 30	- 1 39 18.0	- 1 39 17.8	- 1 39 17.5	- 1 39 17.2	- 1 39 16.8
135 40 00	- 1 41 25.8	- 1 41 25.6	- 1 41 25.4	- 1 41 25.1	- 1 41 24.8
135 42 30	- 1 43 33.7	- 1 43 33.5	- 1 43 33.3	- 1 43 33.1	- 1 43 32.8
135 45 00	- 1 45 41.5	- 1 45 41.4	- 1 45 41.3	- 1 45 41.0	- 1 45 40.8
135 47 30	- 1 47 49.4	- 1 47 49.3	- 1 47 49.2	- 1 47 49.0	- 1 47 48.8
135 50 00	- 1 49 57.3	- 1 49 57.2	- 1 49 57.1	- 1 49 57.0	- 1 49 56.8
135 52 30	- 1 52 05.2	- 1 52 05.2	- 1 52 05.1	- 1 52 05.0	- 1 52 04.9
135 55 00	- 1 54 13.1	- 1 54 13.1	- 1 54 13.1	- 1 54 13.0	- 1 54 12.9
135 57 30	- 1 56 21.0	- 1 56 21.1	- 1 56 21.1	- 1 56 21.1	- 1 56 21.0
136 00 00	- 1 58 29.0	- 1 58 29.1	- 1 58 29.1	- 1 58 29.1	- 1 58 29.1
136 02 30	- 2 00 36.9	- 2 00 37.1	- 2 00 37.1	- 2 00 37.2	- 2 00 37.2
136 05 00	- 2 02 44.9	- 2 02 45.1	- 2 02 45.2	- 2 02 45.3	- 2 02 45.3
136 07 30	- 2 04 52.9	- 2 04 53.1	- 2 04 53.2	- 2 04 53.3	- 2 04 53.4
136 10 00	- 2 07 00.9	- 2 07 01.1	- 2 07 01.3	- 2 07 01.5	- 2 07 01.5
136 12 30	- 2 09 08.9	- 2 09 09.2	- 2 09 09.4	- 2 09 09.6	- 2 09 09.7
136 15 00	- 2 11 16.9	- 2 11 17.2	- 2 11 17.5	- 2 11 17.7	- 2 11 17.9
136 17 30	- 2 13 25.0	- 2 13 25.3	- 2 13 25.6	- 2 13 25.9	- 2 13 26.0
136 20 00	- 2 15 33.0	- 2 15 33.4	- 2 15 33.7	- 2 15 34.0	- 2 15 34.2
136 22 30	- 2 17 41.1	- 2 17 41.5	- 2 17 41.9	- 2 17 42.2	- 2 17 42.5
136 25 00	- 2 19 49.2	- 2 19 49.7	- 2 19 50.1	- 2 19 50.4	- 2 19 50.7
136 27 30	- 2 21 57.3	- 2 21 57.8	- 2 21 58.2	- 2 21 58.6	- 2 21 58.9
136 30 00	- 2 24 05.4	- 2 24 06.0	- 2 24 06.4	- 2 24 06.8	- 2 24 07.2
136 32 30	- 2 26 13.6	- 2 26 14.1	- 2 26 14.6	- 2 26 15.1	- 2 26 15.4
136 35 00	- 2 28 21.7	- 2 28 22.3	- 2 28 22.8	- 2 28 23.3	- 2 28 23.7
136 37 30	- 2 30 29.9	- 2 30 30.5	- 2 30 31.1	- 2 30 31.6	- 2 30 32.0
136 40 00	- 2 32 38.1	- 2 32 38.7	- 2 32 39.3	- 2 32 39.9	- 2 32 40.4
136 42 30	- 2 34 46.3	- 2 34 46.9	- 2 34 47.6	- 2 34 48.2	- 2 34 48.7
136 45 00	- 2 36 54.5	- 2 36 55.2	- 2 36 55.9	- 2 36 56.5	- 2 36 57.0
136 47 30	- 2 39 02.7	- 2 39 03.5	- 2 39 04.1	- 2 39 04.8	- 2 39 05.4
136 50 00	- 2 41 10.9	- 2 41 11.7	- 2 41 12.5	- 2 41 13.1	- 2 41 13.8
136 52 30	- 2 43 19.2	- 2 43 20.0	- 2 43 20.8	- 2 43 21.5	- 2 43 22.1
136 55 00	- 2 45 27.5	- 2 45 28.3	- 2 45 29.1	- 2 45 29.9	- 2 45 30.5
136 57 30	- 2 47 35.7	- 2 47 36.6	- 2 47 37.5	- 2 47 38.2	- 2 47 39.0
137 00 00	- 2 49 44.0	- 2 49 45.0	- 2 49 45.8	- 2 49 46.6	- 2 49 47.4
137 02 30	- 2 51 52.4	- 2 51 53.3	- 2 51 54.2	- 2 51 55.1	- 2 51 55.8
137 05 00	- 2 54 00.7	- 2 54 01.7	- 2 54 02.6	- 2 54 03.5	- 2 54 04.3
137 07 30	- 2 56 09.0	- 2 56 10.1	- 2 56 11.0	- 2 56 11.9	- 2 56 12.8
137 10 00	- 2 58 17.4	- 2 58 18.4	- 2 58 19.4	- 2 58 20.4	- 2 58 21.3
137 12 30	- 3 00 25.8	- 3 00 26.9	- 3 00 27.9	- 3 00 28.9	- 3 00 29.8
137 15 00	- 3 02 34.2	- 3 02 35.3	- 3 02 36.3	- 3 02 37.3	- 3 02 38.3
137 17 30	- 3 04 42.6	- 3 04 43.7	- 3 04 44.8	- 3 04 45.9	- 3 04 46.8
137 20 00	- 3 06 51.0	- 3 06 52.2	- 3 06 53.3	- 3 06 54.4	- 3 06 55.4
137 22 30	- 3 08 59.4	- 3 09 00.6	- 3 09 01.8	- 3 09 02.9	- 3 09 04.0
137 25 00	- 3 11 07.9	- 3 11 09.1	- 3 11 10.3	- 3 11 11.5	- 3 11 12.5
137 27 30	- 3 13 16.3	- 3 13 17.6	- 3 13 18.8	- 3 13 20.0	- 3 13 21.1
137 30 00	- 3 15 24.8	- 3 15 26.1	- 3 15 27.4	- 3 15 28.6	- 3 15 29.7
137 32 30	- 3 17 33.3	- 3 17 34.7	- 3 17 35.9	- 3 17 37.2	- 3 17 38.4
137 35 00	- 3 19 41.8	- 3 19 43.2	- 3 19 44.5	- 3 19 45.8	- 3 19 47.0
137 37 30	- 3 21 50.3	- 3 21 51.8	- 3 21 53.1	- 3 21 54.4	- 3 21 55.7
137 40 00	- 3 23 58.9	- 3 24 00.3	- 3 24 01.7	- 3 24 03.1	- 3 24 04.3
137 42 30	- 3 26 07.4	- 3 26 08.9	- 3 26 10.3	- 3 26 11.7	- 3 26 13.0
137 45 00	- 3 28 16.0	- 3 28 17.5	- 3 28 19.0	- 3 28 20.4	- 3 28 21.7
137 47 30	- 3 30 24.6	- 3 30 26.1	- 3 30 27.6	- 3 30 29.1	- 3 30 30.4
137 50 00	- 3 32 33.2	- 3 32 34.8	- 3 32 36.3	- 3 32 37.8	- 3 32 39.2
137 52 30	- 3 34 41.8	- 3 34 43.4	- 3 34 45.0	- 3 34 46.5	- 3 34 47.9
137 55 00	- 3 36 50.5	- 3 36 52.1	- 3 36 53.7	- 3 36 55.2	- 3 36 56.7
137 57 30	- 3 38 59.1	- 3 39 00.8	- 3 39 02.4	- 3 39 03.9	- 3 39 05.5
138 00 00	- 3 41 07.8	- 3 41 09.5	- 3 41 11.1	- 3 41 12.7	- 3 41 14.2

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	58 30 00	58 32 30	58 35 00	58 37 30	58 40 00
135 30 00	0.9999029	0.9999041	0.9999055	0.9999072	0.9999090
135 32 30	0.9999023	0.9999033	0.9999046	0.9999061	0.9999077
135 35 00	0.9999017	0.9999026	0.9999037	0.9999051	0.9999066
135 37 30	0.9999012	0.9999020	0.9999030	0.9999042	0.9999056
135 40 00	0.9999007	0.9999014	0.9999023	0.9999034	0.9999046
135 42 30	0.9999004	0.9999010	0.9999017	0.9999026	0.9999038
135 45 00	0.9999002	0.9999006	0.9999012	0.9999020	0.9999030
135 47 30	0.9999000	0.9999003	0.9999008	0.9999014	0.9999023
135 50 00	0.9999000	0.9999001	0.9999004	0.9999010	0.9999017
135 52 30	0.9999000	0.9999000	0.9999002	0.9999006	0.9999012
135 55 00	0.9999001	0.9999000	0.9999000	0.9999003	0.9999008
135 57 30	0.9999003	0.9999000	0.9999000	0.9999001	0.9999004
136 00 00	0.9999006	0.9999002	0.9999000	0.9999000	0.9999002
136 02 30	0.9999010	0.9999004	0.9999001	0.9999000	0.9999000
136 05 00	0.9999014	0.9999008	0.9999003	0.9999000	0.9999000
136 07 30	0.9999020	0.9999012	0.9999006	0.9999002	0.9999000
136 10 00	0.9999026	0.9999017	0.9999009	0.9999004	0.9999001
136 12 30	0.9999034	0.9999023	0.9999014	0.9999007	0.9999003
136 15 00	0.9999042	0.9999029	0.9999019	0.9999011	0.9999005
136 17 30	0.9999051	0.9999037	0.9999026	0.9999016	0.9999009
136 20 00	0.9999061	0.9999046	0.9999033	0.9999022	0.9999013
136 22 30	0.9999071	0.9999055	0.9999041	0.9999029	0.9999019
136 25 00	0.9999083	0.9999065	0.9999050	0.9999036	0.9999025
136 27 30	0.9999095	0.9999076	0.9999059	0.9999044	0.9999032
136 30 00	0.9999109	0.9999088	0.9999070	0.9999054	0.9999040
136 32 30	0.9999123	0.9999101	0.9999081	0.9999064	0.9999048
136 35 00	0.9999138	0.9999115	0.9999094	0.9999075	0.9999058
136 37 30	0.9999154	0.9999129	0.9999107	0.9999087	0.9999068
136 40 00	0.9999171	0.9999145	0.9999121	0.9999099	0.9999080
136 42 30	0.9999188	0.9999161	0.9999136	0.9999113	0.9999092
136 45 00	0.9999207	0.9999178	0.9999151	0.9999127	0.9999105
136 47 30	0.9999226	0.9999196	0.9999168	0.9999142	0.9999119
136 50 00	0.9999246	0.9999215	0.9999185	0.9999158	0.9999133
136 52 30	0.9999267	0.9999234	0.9999204	0.9999175	0.9999149
136 55 00	0.9999289	0.9999255	0.9999223	0.9999193	0.9999165
136 57 30	0.9999312	0.9999276	0.9999243	0.9999211	0.9999182
137 00 00	0.9999335	0.9999298	0.9999263	0.9999231	0.9999200
137 02 30	0.9999360	0.9999321	0.9999285	0.9999251	0.9999219
137 05 00	0.9999385	0.9999345	0.9999308	0.9999272	0.9999239
137 07 30	0.9999411	0.9999370	0.9999331	0.9999294	0.9999259
137 10 00	0.9999438	0.9999395	0.9999355	0.9999317	0.9999281
137 12 30	0.9999466	0.9999422	0.9999380	0.9999340	0.9999303
137 15 00	0.9999494	0.9999449	0.9999406	0.9999365	0.9999326
137 17 30	0.9999524	0.9999477	0.9999433	0.9999390	0.9999350
137 20 00	0.9999554	0.9999506	0.9999460	0.9999416	0.9999375
137 22 30	0.9999585	0.9999536	0.9999488	0.9999443	0.9999400
137 25 00	0.9999617	0.9999566	0.9999517	0.9999471	0.9999427
137 27 30	0.9999650	0.9999598	0.9999547	0.9999500	0.9999454
137 30 00	0.9999683	0.9999630	0.9999578	0.9999529	0.9999482
137 32 30	0.9999718	0.9999663	0.9999610	0.9999559	0.9999511
137 35 00	0.9999753	0.9999697	0.9999642	0.9999590	0.9999540
137 37 30	0.9999789	0.9999731	0.9999676	0.9999622	0.9999571
137 40 00	0.9999826	0.9999767	0.9999710	0.9999655	0.9999602
137 42 30	0.9999864	0.9999803	0.9999745	0.9999688	0.9999634
137 45 00	0.9999902	0.9999840	0.9999780	0.9999723	0.9999667
137 47 30	0.9999942	0.9999878	0.9999817	0.9999758	0.9999701
137 50 00	0.9999982	0.9999917	0.9999854	0.9999794	0.9999735
137 52 30	1.0000023	0.9999957	0.9999892	0.9999831	0.9999771
137 55 00	1.0000065	0.9999997	0.9999931	0.9999868	0.9999807
137 57 30	1.0000107	1.0000038	0.9999971	0.9999907	0.9999844
138 00 00	1.0000151	1.0000080	1.0000012	0.9999946	0.9999882

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	58 40 00	58 42 30	58 45 00	58 47 30	58 50 00
133 30 00	0 09 10.9	0 09 13.2	0 09 15.5	0 09 17.9	0 09 20.3
133 32 30	0 07 03.7	0 07 05.9	0 07 08.2	0 07 10.5	0 07 12.9
133 35 00	0 04 56.4	0 04 58.6	0 05 00.8	0 05 03.1	0 05 05.5
133 37 30	0 02 49.1	0 02 51.3	0 02 53.5	0 02 55.7	0 02 58.1
133 40 00	0 00 41.8	0 00 43.9	0 00 46.1	0 00 48.3	0 00 50.6
133 42 30	- 0 01 25.5	- 0 01 23.4	- 0 01 21.3	- 0 01 19.1	- 0 01 16.9
133 45 00	- 0 03 32.8	- 0 03 30.8	- 0 03 28.7	- 0 03 26.5	- 0 03 24.3
133 47 30	- 0 05 40.2	- 0 05 38.2	- 0 05 36.1	- 0 05 34.0	- 0 05 31.8
133 50 00	- 0 07 47.5	- 0 07 45.6	- 0 07 43.5	- 0 07 41.5	- 0 07 39.3
133 52 30	- 0 09 54.9	- 0 09 53.0	- 0 09 51.0	- 0 09 48.9	- 0 09 46.8
133 55 00	- 0 12 02.3	- 0 12 00.4	- 0 11 58.4	- 0 11 56.4	- 0 11 54.4
133 57 30	- 0 14 09.7	- 0 14 07.8	- 0 14 05.9	- 0 14 03.9	- 0 14 01.9
134 00 00	- 0 16 17.1	- 0 16 15.3	- 0 16 13.4	- 0 16 11.5	- 0 16 09.5
134 02 30	- 0 18 24.5	- 0 18 22.7	- 0 18 20.9	- 0 18 19.0	- 0 18 17.0
134 05 00	- 0 20 31.9	- 0 20 30.2	- 0 20 28.4	- 0 20 26.5	- 0 20 24.6
134 07 30	- 0 22 39.4	- 0 22 37.7	- 0 22 35.9	- 0 22 34.1	- 0 22 32.2
134 10 00	- 0 24 46.8	- 0 24 45.2	- 0 24 43.4	- 0 24 41.7	- 0 24 39.8
134 12 30	- 0 26 54.3	- 0 26 52.7	- 0 26 51.0	- 0 26 49.3	- 0 26 47.5
134 15 00	- 0 29 01.8	- 0 29 00.2	- 0 28 58.6	- 0 28 56.9	- 0 28 55.1
134 17 30	- 0 31 09.3	- 0 31 07.8	- 0 31 06.1	- 0 31 04.5	- 0 31 02.7
134 20 00	- 0 33 16.8	- 0 33 15.3	- 0 33 13.7	- 0 33 12.1	- 0 33 10.4
134 22 30	- 0 35 24.4	- 0 35 22.9	- 0 35 21.3	- 0 35 19.7	- 0 35 18.1
134 25 00	- 0 37 31.9	- 0 37 30.5	- 0 37 29.0	- 0 37 27.4	- 0 37 25.8
134 27 30	- 0 39 39.5	- 0 39 38.1	- 0 39 36.6	- 0 39 35.1	- 0 39 33.5
134 30 00	- 0 41 47.1	- 0 41 45.7	- 0 41 44.2	- 0 41 42.7	- 0 41 41.2
134 32 30	- 0 43 54.6	- 0 43 53.3	- 0 43 51.9	- 0 43 50.4	- 0 43 48.9
134 35 00	- 0 46 02.2	- 0 46 00.9	- 0 45 59.6	- 0 45 58.2	- 0 45 56.7
134 37 30	- 0 48 09.9	- 0 48 08.6	- 0 48 07.3	- 0 48 05.9	- 0 48 04.4
134 40 00	- 0 50 17.5	- 0 50 16.2	- 0 50 15.0	- 0 50 13.6	- 0 50 12.2
134 42 30	- 0 52 25.1	- 0 52 23.9	- 0 52 22.7	- 0 52 21.4	- 0 52 20.0
134 45 00	- 0 54 32.8	- 0 54 31.6	- 0 54 30.4	- 0 54 29.1	- 0 54 27.8
134 47 30	- 0 56 40.5	- 0 56 39.3	- 0 56 38.1	- 0 56 36.9	- 0 56 35.6
134 50 00	- 0 58 48.1	- 0 58 47.0	- 0 58 45.9	- 0 58 44.7	- 0 58 43.5
134 52 30	- 1 00 55.8	- 1 00 54.8	- 1 00 53.7	- 1 00 52.5	- 1 00 51.3
134 55 00	- 1 03 03.6	- 1 03 02.5	- 1 03 01.5	- 1 03 00.3	- 1 02 59.2
134 57 30	- 1 05 11.3	- 1 05 10.3	- 1 05 09.3	- 1 05 08.2	- 1 05 07.0
135 00 00	- 1 07 19.0	- 1 07 18.1	- 1 07 17.1	- 1 07 16.0	- 1 07 14.9
135 02 30	- 1 09 26.8	- 1 09 25.9	- 1 09 24.9	- 1 09 23.9	- 1 09 22.8
135 05 00	- 1 11 34.5	- 1 11 33.7	- 1 11 32.7	- 1 11 31.8	- 1 11 30.7
135 07 30	- 1 13 42.3	- 1 13 41.5	- 1 13 40.6	- 1 13 39.6	- 1 13 38.6
135 10 00	- 1 15 50.1	- 1 15 49.3	- 1 15 48.5	- 1 15 47.5	- 1 15 46.6
135 12 30	- 1 17 57.9	- 1 17 57.2	- 1 17 56.3	- 1 17 55.5	- 1 17 54.5
135 15 00	- 1 20 05.8	- 1 20 05.0	- 1 20 04.2	- 1 20 03.4	- 1 20 02.5
135 17 30	- 1 22 13.6	- 1 22 12.9	- 1 22 12.1	- 1 22 11.3	- 1 22 10.5
135 20 00	- 1 24 21.5	- 1 24 20.8	- 1 24 20.1	- 1 24 19.3	- 1 24 18.5
135 22 30	- 1 26 29.3	- 1 26 28.7	- 1 26 28.0	- 1 26 27.3	- 1 26 26.5
135 25 00	- 1 28 37.2	- 1 28 36.6	- 1 28 36.0	- 1 28 35.3	- 1 28 34.5
135 27 30	- 1 30 45.1	- 1 30 44.5	- 1 30 43.9	- 1 30 43.3	- 1 30 42.5
135 30 00	- 1 32 53.0	- 1 32 52.5	- 1 32 51.9	- 1 32 51.3	- 1 32 50.6
135 32 30	- 1 35 00.9	- 1 35 00.5	- 1 34 59.9	- 1 34 59.3	- 1 34 58.7
135 35 00	- 1 37 08.9	- 1 37 08.4	- 1 37 07.9	- 1 37 07.4	- 1 37 06.7
135 37 30	- 1 39 16.8	- 1 39 16.4	- 1 39 15.9	- 1 39 15.4	- 1 39 14.8
135 40 00	- 1 41 24.8	- 1 41 24.4	- 1 41 24.0	- 1 41 23.5	- 1 41 22.9
135 42 30	- 1 43 32.8	- 1 43 32.4	- 1 43 32.0	- 1 43 31.6	- 1 43 31.1
135 45 00	- 1 45 40.8	- 1 45 40.5	- 1 45 40.1	- 1 45 39.7	- 1 45 39.2
135 47 30	- 1 47 48.8	- 1 47 48.5	- 1 47 48.2	- 1 47 47.8	- 1 47 47.3
135 50 00	- 1 49 56.8	- 1 49 56.6	- 1 49 56.3	- 1 49 55.9	- 1 49 55.5
135 52 30	- 1 52 04.9	- 1 52 04.6	- 1 52 04.4	- 1 52 04.1	- 1 52 03.7
135 55 00	- 1 54 12.9	- 1 54 12.7	- 1 54 12.5	- 1 54 12.2	- 1 54 11.9
135 57 30	- 1 56 21.0	- 1 56 20.8	- 1 56 20.6	- 1 56 20.4	- 1 56 20.1
136 00 00	- 1 58 29.1	- 1 58 29.0	- 1 58 28.8	- 1 58 28.6	- 1 58 28.3

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	58 40 00	58 42 30	58 45 00	58 47 30	58 50 00
133 30 00	1.0000739	1.0000821	1.0000904	1.0000990	1.0001078
133 32 30	1.0000682	1.0000763	1.0000846	1.0000930	1.0001017
133 35 00	1.0000627	1.0000707	1.0000788	1.0000871	1.0000956
133 37 30	1.0000573	1.0000651	1.0000731	1.0000813	1.0000897
133 40 00	1.0000520	1.0000597	1.0000675	1.0000756	1.0000839
133 42 30	1.0000467	1.0000543	1.0000621	1.0000700	1.0000781
133 45 00	1.0000416	1.0000490	1.0000567	1.0000645	1.0000725
133 47 30	1.0000365	1.0000439	1.0000514	1.0000591	1.0000670
133 50 00	1.0000316	1.0000388	1.0000462	1.0000537	1.0000615
133 52 30	1.0000267	1.0000338	1.0000410	1.0000485	1.0000561
133 55 00	1.0000220	1.0000289	1.0000360	1.0000434	1.0000509
133 57 30	1.0000173	1.0000241	1.0000311	1.0000383	1.0000457
134 00 00	1.0000127	1.0000194	1.0000263	1.0000333	1.0000406
134 02 30	1.0000082	1.0000148	1.0000215	1.0000285	1.0000356
134 05 00	1.0000038	1.0000103	1.0000169	1.0000237	1.0000307
134 07 30	0.9999995	1.0000058	1.0000123	1.0000190	1.0000259
134 10 00	0.9999953	1.0000015	1.0000079	1.0000144	1.0000212
134 12 30	0.9999912	0.9999973	1.0000035	1.0000099	1.0000166
134 15 00	0.9999872	0.9999931	0.9999992	1.0000055	1.0000120
134 17 30	0.9999833	0.9999891	0.9999950	1.0000012	1.0000076
134 20 00	0.9999794	0.9999851	0.9999909	0.9999970	1.0000032
134 22 30	0.9999757	0.9999812	0.9999869	0.9999929	0.9999990
134 25 00	0.9999720	0.9999774	0.9999830	0.9999888	0.9999948
134 27 30	0.9999685	0.9999737	0.9999792	0.9999849	0.9999908
134 30 00	0.9999650	0.9999702	0.9999755	0.9999810	0.9999868
134 32 30	0.9999616	0.9999666	0.9999719	0.9999773	0.9999829
134 35 00	0.9999583	0.9999632	0.9999683	0.9999736	0.9999791
134 37 30	0.9999551	0.9999599	0.9999649	0.9999700	0.9999754
134 40 00	0.9999520	0.9999567	0.9999615	0.9999665	0.9999718
134 42 30	0.9999490	0.9999535	0.9999582	0.9999631	0.9999682
134 45 00	0.9999461	0.9999505	0.9999551	0.9999598	0.9999648
134 47 30	0.9999433	0.9999475	0.9999520	0.9999566	0.9999614
134 50 00	0.9999405	0.9999447	0.9999490	0.9999535	0.9999582
134 52 30	0.9999379	0.9999419	0.9999461	0.9999504	0.9999550
134 55 00	0.9999353	0.9999392	0.9999432	0.9999475	0.9999519
134 57 30	0.9999329	0.9999366	0.9999405	0.9999446	0.9999490
135 00 00	0.9999305	0.9999341	0.9999379	0.9999419	0.9999461
135 02 30	0.9999282	0.9999317	0.9999353	0.9999392	0.9999433
135 05 00	0.9999260	0.9999293	0.9999329	0.9999366	0.9999405
135 07 30	0.9999239	0.9999271	0.9999305	0.9999341	0.9999379
135 10 00	0.9999219	0.9999250	0.9999282	0.9999317	0.9999354
135 12 30	0.9999200	0.9999229	0.9999260	0.9999294	0.9999329
135 15 00	0.9999181	0.9999209	0.9999239	0.9999271	0.9999306
135 17 30	0.9999164	0.9999190	0.9999219	0.9999250	0.9999283
135 20 00	0.9999147	0.9999173	0.9999200	0.9999229	0.9999261
135 22 30	0.9999131	0.9999156	0.9999182	0.9999210	0.9999240
135 25 00	0.9999117	0.9999139	0.9999164	0.9999191	0.9999220
135 27 30	0.9999103	0.9999124	0.9999148	0.9999173	0.9999201
135 30 00	0.9999090	0.9999110	0.9999132	0.9999156	0.9999182
135 32 30	0.9999077	0.9999096	0.9999117	0.9999140	0.9999165
135 35 00	0.9999066	0.9999084	0.9999103	0.9999125	0.9999149
135 37 30	0.9999056	0.9999072	0.9999090	0.9999111	0.9999133
135 40 00	0.9999046	0.9999061	0.9999078	0.9999097	0.9999118
135 42 30	0.9999038	0.9999051	0.9999067	0.9999084	0.9999104
135 45 00	0.9999030	0.9999042	0.9999056	0.9999073	0.9999091
135 47 30	0.9999023	0.9999034	0.9999047	0.9999062	0.9999079
135 50 00	0.9999017	0.9999027	0.9999038	0.9999052	0.9999068
135 52 30	0.9999012	0.9999020	0.9999030	0.9999043	0.9999057
135 55 00	0.9999008	0.9999015	0.9999024	0.9999035	0.9999048
135 57 30	0.9999004	0.9999010	0.9999018	0.9999027	0.9999039
136 00 00	0.9999002	0.9999006	0.9999012	0.9999021	0.9999031

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	58 40 00	58 42 30	58 45 00	58 47 30	58 50 00
136 00 00	- 1 58 29.1	- 1 58 29.0	- 1 58 28.8	- 1 58 28.6	- 1 58 28.3
136 02 30	- 2 00 37.2	- 2 00 37.1	- 2 00 37.0	- 2 00 36.8	- 2 00 36.5
136 05 00	- 2 02 45.3	- 2 02 45.2	- 2 02 45.1	- 2 02 45.0	- 2 02 44.8
136 07 30	- 2 04 53.4	- 2 04 53.4	- 2 04 53.3	- 2 04 53.2	- 2 04 53.1
136 10 00	- 2 07 01.5	- 2 07 01.6	- 2 07 01.5	- 2 07 01.5	- 2 07 01.3
136 12 30	- 2 09 09.7	- 2 09 09.8	- 2 09 09.8	- 2 09 09.7	- 2 09 09.6
136 15 00	- 2 11 17.9	- 2 11 18.0	- 2 11 18.0	- 2 11 18.0	- 2 11 17.9
136 17 30	- 2 13 26.0	- 2 13 26.2	- 2 13 26.3	- 2 13 26.3	- 2 13 26.2
136 20 00	- 2 15 34.2	- 2 15 34.4	- 2 15 34.5	- 2 15 34.6	- 2 15 34.6
136 22 30	- 2 17 42.5	- 2 17 42.7	- 2 17 42.8	- 2 17 42.9	- 2 17 42.9
136 25 00	- 2 19 50.7	- 2 19 50.9	- 2 19 51.1	- 2 19 51.2	- 2 19 51.3
136 27 30	- 2 21 58.9	- 2 21 59.2	- 2 21 59.4	- 2 21 59.6	- 2 21 59.7
136 30 00	- 2 24 07.2	- 2 24 07.5	- 2 24 07.7	- 2 24 07.9	- 2 24 08.1
136 32 30	- 2 26 15.4	- 2 26 15.8	- 2 26 16.1	- 2 26 16.3	- 2 26 16.5
136 35 00	- 2 28 23.7	- 2 28 24.1	- 2 28 24.4	- 2 28 24.7	- 2 28 24.9
136 37 30	- 2 30 32.0	- 2 30 32.4	- 2 30 32.8	- 2 30 33.1	- 2 30 33.3
136 40 00	- 2 32 40.4	- 2 32 40.8	- 2 32 41.2	- 2 32 41.5	- 2 32 41.8
136 42 30	- 2 34 48.7	- 2 34 49.2	- 2 34 49.6	- 2 34 49.9	- 2 34 50.2
136 45 00	- 2 36 57.0	- 2 36 57.5	- 2 36 58.0	- 2 36 58.4	- 2 36 58.7
136 47 30	- 2 39 05.4	- 2 39 05.9	- 2 39 06.4	- 2 39 06.8	- 2 39 07.2
136 50 00	- 2 41 13.8	- 2 41 14.3	- 2 41 14.8	- 2 41 15.3	- 2 41 15.7
136 52 30	- 2 43 22.1	- 2 43 22.7	- 2 43 23.3	- 2 43 23.8	- 2 43 24.2
136 55 00	- 2 45 30.5	- 2 45 31.2	- 2 45 31.8	- 2 45 32.3	- 2 45 32.8
136 57 30	- 2 47 39.0	- 2 47 39.6	- 2 47 40.3	- 2 47 40.8	- 2 47 41.3
137 00 00	- 2 49 47.4	- 2 49 48.1	- 2 49 48.8	- 2 49 49.4	- 2 49 49.9
137 02 30	- 2 51 55.8	- 2 51 56.6	- 2 51 57.3	- 2 51 57.9	- 2 51 58.5
137 05 00	- 2 54 04.3	- 2 54 05.1	- 2 54 05.8	- 2 54 06.5	- 2 54 07.1
137 07 30	- 2 56 12.8	- 2 56 13.6	- 2 56 14.3	- 2 56 15.0	- 2 56 15.7
137 10 00	- 2 58 21.3	- 2 58 22.1	- 2 58 22.9	- 2 58 23.6	- 2 58 24.3
137 12 30	- 3 00 29.8	- 3 00 30.7	- 3 00 31.5	- 3 00 32.2	- 3 00 32.9
137 15 00	- 3 02 38.3	- 3 02 39.2	- 3 02 40.1	- 3 02 40.9	- 3 02 41.6
137 17 30	- 3 04 46.8	- 3 04 47.8	- 3 04 48.7	- 3 04 49.5	- 3 04 50.3
137 20 00	- 3 06 55.4	- 3 06 56.4	- 3 06 57.3	- 3 06 58.1	- 3 06 58.9
137 22 30	- 3 09 04.0	- 3 09 05.0	- 3 09 05.9	- 3 09 06.8	- 3 09 07.6
137 25 00	- 3 11 12.5	- 3 11 13.6	- 3 11 14.6	- 3 11 15.5	- 3 11 16.4
137 27 30	- 3 13 21.1	- 3 13 22.2	- 3 13 23.2	- 3 13 24.2	- 3 13 25.1
137 30 00	- 3 15 29.7	- 3 15 30.8	- 3 15 31.9	- 3 15 32.9	- 3 15 33.8
137 32 30	- 3 17 38.4	- 3 17 39.5	- 3 17 40.6	- 3 17 41.6	- 3 17 42.6
137 35 00	- 3 19 47.0	- 3 19 48.2	- 3 19 49.3	- 3 19 50.3	- 3 19 51.3
137 37 30	- 3 21 55.7	- 3 21 56.9	- 3 21 58.0	- 3 21 59.1	- 3 22 00.1
137 40 00	- 3 24 04.3	- 3 24 05.6	- 3 24 06.7	- 3 24 07.9	- 3 24 08.9
137 42 30	- 3 26 13.0	- 3 26 14.3	- 3 26 15.5	- 3 26 16.6	- 3 26 17.7
137 45 00	- 3 28 21.7	- 3 28 23.0	- 3 28 24.3	- 3 28 25.4	- 3 28 26.6
137 47 30	- 3 30 30.4	- 3 30 31.8	- 3 30 33.0	- 3 30 34.3	- 3 30 35.4
137 50 00	- 3 32 39.2	- 3 32 40.5	- 3 32 41.8	- 3 32 43.1	- 3 32 44.3
137 52 30	- 3 34 47.9	- 3 34 49.3	- 3 34 50.6	- 3 34 51.9	- 3 34 53.2
137 55 00	- 3 36 56.7	- 3 36 58.1	- 3 36 59.5	- 3 37 00.8	- 3 37 02.0
137 57 30	- 3 39 05.5	- 3 39 06.9	- 3 39 08.3	- 3 39 09.7	- 3 39 10.9
138 00 00	- 3 41 14.2	- 3 41 15.7	- 3 41 17.2	- 3 41 18.5	- 3 41 19.9
138 02 30	- 3 43 23.0	- 3 43 24.6	- 3 43 26.0	- 3 43 27.4	- 3 43 28.8
138 05 00	- 3 45 31.9	- 3 45 33.4	- 3 45 34.9	- 3 45 36.4	- 3 45 37.7
138 07 30	- 3 47 40.7	- 3 47 42.3	- 3 47 43.8	- 3 47 45.3	- 3 47 46.7
138 10 00	- 3 49 49.6	- 3 49 51.2	- 3 49 52.7	- 3 49 54.2	- 3 49 55.7
138 12 30	- 3 51 58.4	- 3 52 00.1	- 3 52 01.7	- 3 52 03.2	- 3 52 04.7
138 15 00	- 3 54 07.3	- 3 54 09.0	- 3 54 10.6	- 3 54 12.2	- 3 54 13.7
138 17 30	- 3 56 16.2	- 3 56 17.9	- 3 56 19.6	- 3 56 21.2	- 3 56 22.7
138 20 00	- 3 58 25.1	- 3 58 26.9	- 3 58 28.5	- 3 58 30.2	- 3 58 31.8
138 22 30	- 4 00 34.0	- 4 00 35.8	- 4 00 37.5	- 4 00 39.2	- 4 00 40.8
138 25 00	- 4 02 43.0	- 4 02 44.8	- 4 02 46.5	- 4 02 48.2	- 4 02 49.9
138 27 30	- 4 04 51.9	- 4 04 53.8	- 4 04 55.6	- 4 04 57.3	- 4 04 59.0
138 30 00	- 4 07 00.9	- 4 07 02.8	- 4 07 04.6	- 4 07 06.3	- 4 07 08.1

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	58 40 00	58 42 30	58 45 00	58 47 30	58 50 00
136 00 00	0.9999002	0.9999006	0.9999012	0.9999021	0.9999031
136 02 30	0.9999000	0.9999003	0.9999008	0.9999015	0.9999024
136 05 00	0.9999000	0.9999001	0.9999005	0.9999010	0.9999018
136 07 30	0.9999000	0.9999000	0.9999002	0.9999006	0.9999013
136 10 00	0.9999001	0.9999000	0.9999000	0.9999003	0.9999008
136 12 30	0.9999003	0.9999000	0.9999000	0.9999001	0.9999005
136 15 00	0.9999005	0.9999001	0.9999000	0.9999000	0.9999002
136 17 30	0.9999009	0.9999004	0.9999000	0.9998999	0.9999000
136 20 00	0.9999013	0.9999007	0.9999002	0.9999000	0.9999000
136 22 30	0.9999019	0.9999011	0.9999005	0.9999001	0.9998999
136 25 00	0.9999025	0.9999015	0.9999008	0.9999003	0.9999000
136 27 30	0.9999032	0.9999021	0.9999013	0.9999006	0.9999002
136 30 00	0.9999040	0.9999028	0.9999018	0.9999010	0.9999004
136 32 30	0.9999048	0.9999035	0.9999024	0.9999015	0.9999008
136 35 00	0.9999058	0.9999043	0.9999031	0.9999020	0.9999012
136 37 30	0.9999068	0.9999052	0.9999038	0.9999026	0.9999017
136 40 00	0.9999080	0.9999062	0.9999047	0.9999034	0.9999023
136 42 30	0.9999092	0.9999073	0.9999056	0.9999042	0.9999029
136 45 00	0.9999105	0.9999085	0.9999066	0.9999051	0.9999037
136 47 30	0.9999119	0.9999097	0.9999078	0.9999060	0.9999045
136 50 00	0.9999133	0.9999110	0.9999090	0.9999071	0.9999054
136 52 30	0.9999149	0.9999124	0.9999102	0.9999082	0.9999064
136 55 00	0.9999165	0.9999139	0.9999116	0.9999095	0.9999075
136 57 30	0.9999182	0.9999155	0.9999130	0.9999108	0.9999087
137 00 00	0.9999200	0.9999172	0.9999146	0.9999122	0.9999100
137 02 30	0.9999219	0.9999189	0.9999162	0.9999136	0.9999113
137 05 00	0.9999239	0.9999208	0.9999179	0.9999152	0.9999127
137 07 30	0.9999259	0.9999227	0.9999197	0.9999168	0.9999142
137 10 00	0.9999281	0.9999247	0.9999215	0.9999186	0.9999158
137 12 30	0.9999303	0.9999268	0.9999235	0.9999204	0.9999175
137 15 00	0.9999326	0.9999289	0.9999255	0.9999223	0.9999193
137 17 30	0.9999350	0.9999312	0.9999276	0.9999242	0.9999211
137 20 00	0.9999375	0.9999335	0.9999298	0.9999263	0.9999230
137 22 30	0.9999400	0.9999359	0.9999321	0.9999284	0.9999250
137 25 00	0.9999427	0.9999384	0.9999344	0.9999307	0.9999271
137 27 30	0.9999454	0.9999410	0.9999369	0.9999330	0.9999293
137 30 00	0.9999482	0.9999437	0.9999394	0.9999354	0.9999315
137 32 30	0.9999511	0.9999464	0.9999420	0.9999378	0.9999338
137 35 00	0.9999540	0.9999493	0.9999447	0.9999404	0.9999363
137 37 30	0.9999571	0.9999522	0.9999475	0.9999430	0.9999388
137 40 00	0.9999602	0.9999552	0.9999503	0.9999457	0.9999413
137 42 30	0.9999634	0.9999582	0.9999533	0.9999485	0.9999440
137 45 00	0.9999667	0.9999614	0.9999563	0.9999514	0.9999467
137 47 30	0.9999701	0.9999646	0.9999594	0.9999543	0.9999495
137 50 00	0.9999735	0.9999679	0.9999625	0.9999574	0.9999524
137 52 30	0.9999771	0.9999713	0.9999658	0.9999605	0.9999554
137 55 00	0.9999807	0.9999748	0.9999691	0.9999637	0.9999585
137 57 30	0.9999844	0.9999784	0.9999726	0.9999670	0.9999616
138 00 00	0.9999882	0.9999820	0.9999761	0.9999703	0.9999648
138 02 30	0.9999920	0.9999857	0.9999796	0.9999738	0.9999681
138 05 00	0.9999960	0.9999895	0.9999833	0.9999773	0.9999715
138 07 30	1.0000000	0.9999934	0.9999870	0.9999809	0.9999750
138 10 00	1.0000041	0.9999974	0.9999909	0.9999846	0.9999785
138 12 30	1.0000083	1.0000014	0.9999948	0.9999883	0.9999822
138 15 00	1.0000126	1.0000055	0.9999988	0.9999922	0.9999859
138 17 30	1.0000169	1.0000097	1.0000028	0.9999961	0.9999896
138 20 00	1.0000213	1.0000140	1.0000070	1.0000001	0.9999935
138 22 30	1.0000258	1.0000184	1.0000112	1.0000042	0.9999974
138 25 00	1.0000304	1.0000228	1.0000155	1.0000083	1.0000014
138 27 30	1.0000351	1.0000273	1.0000199	1.0000126	1.0000055
138 30 00	1.0000398	1.0000319	1.0000243	1.0000169	1.0000097

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	58 50 00	58 52 30	58 55 00	58 57 30	59 00 00
133 30 00	0 09 20.3	0 09 22.8	0 09 25.3	0 09 27.9	0 09 30.5
133 32 30	0 07 12.9	0 07 15.3	0 07 17.8	0 07 20.4	0 07 23.0
133 35 00	0 05 05.5	0 05 07.9	0 05 10.3	0 05 12.8	0 05 15.4
133 37 30	0 02 58.1	0 03 00.4	0 03 02.8	0 03 05.3	0 03 07.8
133 40 00	0 00 50.6	0 00 52.9	0 00 55.3	0 00 57.7	0 01 00.2
133 42 30	- 0 01 16.9	- 0 01 14.6	- 0 01 12.2	- 0 01 09.8	- 0 01 07.4
133 45 00	- 0 03 24.3	- 0 03 22.1	- 0 03 19.8	- 0 03 17.4	- 0 03 15.0
133 47 30	- 0 05 31.8	- 0 05 29.6	- 0 05 27.3	- 0 05 25.0	- 0 05 22.7
133 50 00	- 0 07 39.3	- 0 07 37.2	- 0 07 34.9	- 0 07 32.6	- 0 07 30.3
133 52 30	- 0 09 46.8	- 0 09 44.7	- 0 09 42.5	- 0 09 40.3	- 0 09 38.0
133 55 00	- 0 11 54.4	- 0 11 52.3	- 0 11 50.1	- 0 11 47.9	- 0 11 45.6
133 57 30	- 0 14 01.9	- 0 13 59.9	- 0 13 57.7	- 0 13 55.6	- 0 13 53.3
134 00 00	- 0 16 09.5	- 0 16 07.4	- 0 16 05.4	- 0 16 03.2	- 0 16 01.0
134 02 30	- 0 18 17.0	- 0 18 15.1	- 0 18 13.0	- 0 18 10.9	- 0 18 08.8
134 05 00	- 0 20 24.6	- 0 20 22.7	- 0 20 20.7	- 0 20 18.6	- 0 20 16.5
134 07 30	- 0 22 32.2	- 0 22 30.3	- 0 22 28.3	- 0 22 26.3	- 0 22 24.2
134 10 00	- 0 24 39.8	- 0 24 38.0	- 0 24 36.0	- 0 24 34.0	- 0 24 32.0
134 12 30	- 0 26 47.5	- 0 26 45.6	- 0 26 43.7	- 0 26 41.8	- 0 26 39.8
134 15 00	- 0 28 55.1	- 0 28 53.3	- 0 28 51.4	- 0 28 49.5	- 0 28 47.5
134 17 30	- 0 31 02.7	- 0 31 01.0	- 0 30 59.1	- 0 30 57.3	- 0 30 55.3
134 20 00	- 0 33 10.4	- 0 33 08.7	- 0 33 06.9	- 0 33 05.0	- 0 33 03.1
134 22 30	- 0 35 18.1	- 0 35 16.4	- 0 35 14.6	- 0 35 12.8	- 0 35 11.0
134 25 00	- 0 37 25.8	- 0 37 24.1	- 0 37 22.4	- 0 37 20.6	- 0 37 18.8
134 27 30	- 0 39 33.5	- 0 39 31.9	- 0 39 30.2	- 0 39 28.4	- 0 39 26.7
134 30 00	- 0 41 41.2	- 0 41 39.6	- 0 41 38.0	- 0 41 36.3	- 0 41 34.5
134 32 30	- 0 43 48.9	- 0 43 47.4	- 0 43 45.8	- 0 43 44.1	- 0 43 42.4
134 35 00	- 0 45 56.7	- 0 45 55.2	- 0 45 53.6	- 0 45 52.0	- 0 45 50.3
134 37 30	- 0 48 04.4	- 0 48 03.0	- 0 48 01.4	- 0 47 59.8	- 0 47 58.2
134 40 00	- 0 50 12.2	- 0 50 10.8	- 0 50 09.3	- 0 50 07.7	- 0 50 06.1
134 42 30	- 0 52 20.0	- 0 52 18.6	- 0 52 17.1	- 0 52 15.6	- 0 52 14.0
134 45 00	- 0 54 27.8	- 0 54 26.4	- 0 54 25.0	- 0 54 23.5	- 0 54 22.0
134 47 30	- 0 56 35.6	- 0 56 34.3	- 0 56 32.9	- 0 56 31.4	- 0 56 29.9
134 50 00	- 0 58 43.5	- 0 58 42.1	- 0 58 40.8	- 0 58 39.4	- 0 58 37.9
134 52 30	- 1 00 51.3	- 1 00 50.0	- 1 00 48.7	- 1 00 47.3	- 1 00 45.9
134 55 00	- 1 02 59.2	- 1 02 57.9	- 1 02 56.6	- 1 02 55.3	- 1 02 53.9
134 57 30	- 1 05 07.0	- 1 05 05.8	- 1 05 04.6	- 1 05 03.3	- 1 05 01.9
135 00 00	- 1 07 14.9	- 1 07 13.7	- 1 07 12.5	- 1 07 11.3	- 1 07 09.9
135 02 30	- 1 09 22.8	- 1 09 21.7	- 1 09 20.5	- 1 09 19.3	- 1 09 18.0
135 05 00	- 1 11 30.7	- 1 11 29.6	- 1 11 28.5	- 1 11 27.3	- 1 11 26.0
135 07 30	- 1 13 38.6	- 1 13 37.6	- 1 13 36.5	- 1 13 35.3	- 1 13 34.1
135 10 00	- 1 15 46.6	- 1 15 45.6	- 1 15 44.5	- 1 15 43.4	- 1 15 42.2
135 12 30	- 1 17 54.5	- 1 17 53.5	- 1 17 52.5	- 1 17 51.4	- 1 17 50.3
135 15 00	- 1 20 02.5	- 1 20 01.6	- 1 20 00.6	- 1 19 59.5	- 1 19 58.4
135 17 30	- 1 22 10.5	- 1 22 09.6	- 1 22 08.6	- 1 22 07.6	- 1 22 06.5
135 20 00	- 1 24 18.5	- 1 24 17.6	- 1 24 16.7	- 1 24 15.7	- 1 24 14.6
135 22 30	- 1 26 26.5	- 1 26 25.6	- 1 26 24.7	- 1 26 23.8	- 1 26 22.8
135 25 00	- 1 28 34.5	- 1 28 33.7	- 1 28 32.8	- 1 28 31.9	- 1 28 31.0
135 27 30	- 1 30 42.5	- 1 30 41.8	- 1 30 40.9	- 1 30 40.1	- 1 30 39.1
135 30 00	- 1 32 50.6	- 1 32 49.9	- 1 32 49.1	- 1 32 48.2	- 1 32 47.3
135 32 30	- 1 34 58.7	- 1 34 58.0	- 1 34 57.2	- 1 34 56.4	- 1 34 55.5
135 35 00	- 1 37 06.7	- 1 37 06.1	- 1 37 05.4	- 1 37 04.6	- 1 37 03.8
135 37 30	- 1 39 14.8	- 1 39 14.2	- 1 39 13.5	- 1 39 12.8	- 1 39 12.0
135 40 00	- 1 41 22.9	- 1 41 22.3	- 1 41 21.7	- 1 41 21.0	- 1 41 20.2
135 42 30	- 1 43 31.1	- 1 43 30.5	- 1 43 29.9	- 1 43 29.2	- 1 43 28.5
135 45 00	- 1 45 39.2	- 1 45 38.7	- 1 45 38.1	- 1 45 37.5	- 1 45 36.8
135 47 30	- 1 47 47.3	- 1 47 46.9	- 1 47 46.3	- 1 47 45.7	- 1 47 45.1
135 50 00	- 1 49 55.5	- 1 49 55.1	- 1 49 54.5	- 1 49 54.0	- 1 49 53.4
135 52 30	- 1 52 03.7	- 1 52 03.3	- 1 52 02.8	- 1 52 02.3	- 1 52 01.7
135 55 00	- 1 54 11.9	- 1 54 11.5	- 1 54 11.0	- 1 54 10.6	- 1 54 10.0
135 57 30	- 1 56 20.1	- 1 56 19.7	- 1 56 19.3	- 1 56 18.9	- 1 56 18.3
136 00 00	- 1 58 28.3	- 1 58 28.0	- 1 58 27.6	- 1 58 27.2	- 1 58 26.7

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	58 50 00	58 52 30	58 55 00	58 57 30	59 00 00
133 30 00	1.0001078	1.0001167	1.0001259	1.0001352	1.0001447
133 32 30	1.0001017	1.0001105	1.0001195	1.0001287	1.0001381
133 35 00	1.0000956	1.0001043	1.0001132	1.0001223	1.0001316
133 37 30	1.0000897	1.0000983	1.0001071	1.0001160	1.0001252
133 40 00	1.0000839	1.0000923	1.0001010	1.0001098	1.0001188
133 42 30	1.0000781	1.0000865	1.0000950	1.0001037	1.0001126
133 45 00	1.0000725	1.0000807	1.0000891	1.0000977	1.0001065
133 47 30	1.0000670	1.0000750	1.0000833	1.0000918	1.0001004
133 50 00	1.0000615	1.0000694	1.0000776	1.0000859	1.0000945
133 52 30	1.0000561	1.0000640	1.0000720	1.0000802	1.0000886
133 55 00	1.0000509	1.0000586	1.0000665	1.0000745	1.0000828
133 57 30	1.0000457	1.0000533	1.0000610	1.0000690	1.0000771
134 00 00	1.0000406	1.0000480	1.0000557	1.0000635	1.0000716
134 02 30	1.0000356	1.0000429	1.0000505	1.0000582	1.0000661
134 05 00	1.0000307	1.0000379	1.0000453	1.0000529	1.0000607
134 07 30	1.0000259	1.0000330	1.0000402	1.0000477	1.0000554
134 10 00	1.0000212	1.0000281	1.0000353	1.0000426	1.0000501
134 12 30	1.0000166	1.0000234	1.0000304	1.0000376	1.0000450
134 15 00	1.0000120	1.0000187	1.0000256	1.0000327	1.0000400
134 17 30	1.0000076	1.0000142	1.0000209	1.0000279	1.0000350
134 20 00	1.0000032	1.0000097	1.0000163	1.0000232	1.0000302
134 22 30	0.9999990	1.0000053	1.0000118	1.0000185	1.0000254
134 25 00	0.9999948	1.0000010	1.0000074	1.0000140	1.0000207
134 27 30	0.9999908	0.9999968	1.0000031	1.0000095	1.0000162
134 30 00	0.9999868	0.9999927	0.9999988	1.0000052	1.0000117
134 32 30	0.9999829	0.9999887	0.9999947	1.0000009	1.0000073
134 35 00	0.9999791	0.9999848	0.9999906	0.9999967	1.0000030
134 37 30	0.9999754	0.9999809	0.9999867	0.9999926	0.9999988
134 40 00	0.9999718	0.9999772	0.9999828	0.9999886	0.9999946
134 42 30	0.9999682	0.9999735	0.9999790	0.9999847	0.9999906
134 45 00	0.9999648	0.9999700	0.9999753	0.9999809	0.9999866
134 47 30	0.9999614	0.9999665	0.9999717	0.9999771	0.9999828
134 50 00	0.9999582	0.9999631	0.9999682	0.9999735	0.9999790
134 52 30	0.9999550	0.9999598	0.9999648	0.9999700	0.9999753
134 55 00	0.9999519	0.9999566	0.9999614	0.9999665	0.9999717
134 57 30	0.9999490	0.9999535	0.9999582	0.9999631	0.9999682
135 00 00	0.9999461	0.9999505	0.9999550	0.9999598	0.9999648
135 02 30	0.9999433	0.9999475	0.9999520	0.9999566	0.9999615
135 05 00	0.9999405	0.9999447	0.9999490	0.9999535	0.9999583
135 07 30	0.9999379	0.9999419	0.9999461	0.9999505	0.9999551
135 10 00	0.9999354	0.9999392	0.9999433	0.9999476	0.9999521
135 12 30	0.9999329	0.9999367	0.9999406	0.9999448	0.9999491
135 15 00	0.9999306	0.9999342	0.9999380	0.9999420	0.9999462
135 17 30	0.9999283	0.9999318	0.9999355	0.9999393	0.9999434
135 20 00	0.9999261	0.9999295	0.9999330	0.9999368	0.9999407
135 22 30	0.9999240	0.9999272	0.9999307	0.9999343	0.9999381
135 25 00	0.9999220	0.9999251	0.9999284	0.9999319	0.9999356
135 27 30	0.9999201	0.9999230	0.9999262	0.9999296	0.9999331
135 30 00	0.9999182	0.9999211	0.9999241	0.9999273	0.9999308
135 32 30	0.9999165	0.9999192	0.9999221	0.9999252	0.9999285
135 35 00	0.9999149	0.9999174	0.9999202	0.9999232	0.9999263
135 37 30	0.9999133	0.9999157	0.9999184	0.9999212	0.9999243
135 40 00	0.9999118	0.9999141	0.9999166	0.9999193	0.9999223
135 42 30	0.9999104	0.9999126	0.9999150	0.9999175	0.9999203
135 45 00	0.9999091	0.9999111	0.9999134	0.9999159	0.9999185
135 47 30	0.9999079	0.9999098	0.9999119	0.9999142	0.9999168
135 50 00	0.9999068	0.9999085	0.9999105	0.9999127	0.9999151
135 52 30	0.9999057	0.9999074	0.9999092	0.9999113	0.9999135
135 55 00	0.9999048	0.9999063	0.9999080	0.9999099	0.9999121
135 57 30	0.9999039	0.9999053	0.9999069	0.9999087	0.9999107
136 00 00	0.9999031	0.9999044	0.9999058	0.9999075	0.9999093

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	58 50 00	58 52 30	58 55 00	58 57 30	59 00 00
136 00 00	- 1 58 28.3	- 1 58 28.0	- 1 58 27.6	- 1 58 27.2	- 1 58 26.7
136 02 30	- 2 00 36.5	- 2 00 36.3	- 2 00 35.9	- 2 00 35.5	- 2 00 35.1
136 05 00	- 2 02 44.8	- 2 02 44.5	- 2 02 44.2	- 2 02 43.9	- 2 02 43.5
136 07 30	- 2 04 53.1	- 2 04 52.8	- 2 04 52.6	- 2 04 52.2	- 2 04 51.9
136 10 00	- 2 07 01.3	- 2 07 01.1	- 2 07 00.9	- 2 07 00.6	- 2 07 00.3
136 12 30	- 2 09 09.6	- 2 09 09.5	- 2 09 09.3	- 2 09 09.0	- 2 09 08.7
136 15 00	- 2 11 17.9	- 2 11 17.8	- 2 11 17.6	- 2 11 17.4	- 2 11 17.1
136 17 30	- 2 13 26.2	- 2 13 26.2	- 2 13 26.0	- 2 13 25.8	- 2 13 25.6
136 20 00	- 2 15 34.6	- 2 15 34.5	- 2 15 34.4	- 2 15 34.3	- 2 15 34.1
136 22 30	- 2 17 42.9	- 2 17 42.9	- 2 17 42.9	- 2 17 42.7	- 2 17 42.6
136 25 00	- 2 19 51.3	- 2 19 51.3	- 2 19 51.3	- 2 19 51.2	- 2 19 51.1
136 27 30	- 2 21 59.7	- 2 21 59.7	- 2 21 59.7	- 2 21 59.7	- 2 21 59.6
136 30 00	- 2 24 08.1	- 2 24 08.2	- 2 24 08.2	- 2 24 08.2	- 2 24 08.1
136 32 30	- 2 26 16.5	- 2 26 16.6	- 2 26 16.7	- 2 26 16.7	- 2 26 16.6
136 35 00	- 2 28 24.9	- 2 28 25.0	- 2 28 25.2	- 2 28 25.2	- 2 28 25.2
136 37 30	- 2 30 33.3	- 2 30 33.5	- 2 30 33.7	- 2 30 33.7	- 2 30 33.8
136 40 00	- 2 32 41.8	- 2 32 42.0	- 2 32 42.2	- 2 32 42.3	- 2 32 42.3
136 42 30	- 2 34 50.2	- 2 34 50.5	- 2 34 50.7	- 2 34 50.8	- 2 34 50.9
136 45 00	- 2 36 58.7	- 2 36 59.0	- 2 36 59.2	- 2 36 59.4	- 2 36 59.6
136 47 30	- 2 39 07.2	- 2 39 07.5	- 2 39 07.8	- 2 39 08.0	- 2 39 08.2
136 50 00	- 2 41 15.7	- 2 41 16.1	- 2 41 16.4	- 2 41 16.6	- 2 41 16.8
136 52 30	- 2 43 24.2	- 2 43 24.6	- 2 43 25.0	- 2 43 25.3	- 2 43 25.5
136 55 00	- 2 45 32.8	- 2 45 33.2	- 2 45 33.6	- 2 45 33.9	- 2 45 34.2
136 57 30	- 2 47 41.3	- 2 47 41.8	- 2 47 42.2	- 2 47 42.5	- 2 47 42.8
137 00 00	- 2 49 49.9	- 2 49 50.4	- 2 49 50.8	- 2 49 51.2	- 2 49 51.5
137 02 30	- 2 51 58.5	- 2 51 59.0	- 2 51 59.5	- 2 51 59.9	- 2 52 00.2
137 05 00	- 2 54 07.1	- 2 54 07.6	- 2 54 08.1	- 2 54 08.6	- 2 54 09.0
137 07 30	- 2 56 15.7	- 2 56 16.3	- 2 56 16.8	- 2 56 17.3	- 2 56 17.7
137 10 00	- 2 58 24.3	- 2 58 24.9	- 2 58 25.5	- 2 58 26.0	- 2 58 26.5
137 12 30	- 3 00 32.9	- 3 00 33.6	- 3 00 34.2	- 3 00 34.7	- 3 00 35.2
137 15 00	- 3 02 41.6	- 3 02 42.3	- 3 02 42.9	- 3 02 43.5	- 3 02 44.0
137 17 30	- 3 04 50.3	- 3 04 51.0	- 3 04 51.6	- 3 04 52.3	- 3 04 52.8
137 20 00	- 3 06 58.9	- 3 06 59.7	- 3 07 00.4	- 3 07 01.0	- 3 07 01.6
137 22 30	- 3 09 07.6	- 3 09 08.4	- 3 09 09.2	- 3 09 09.8	- 3 09 10.5
137 25 00	- 3 11 16.4	- 3 11 17.2	- 3 11 17.9	- 3 11 18.6	- 3 11 19.3
137 27 30	- 3 13 25.1	- 3 13 25.9	- 3 13 26.7	- 3 13 27.5	- 3 13 28.2
137 30 00	- 3 15 33.8	- 3 15 34.7	- 3 15 35.5	- 3 15 36.3	- 3 15 37.0
137 32 30	- 3 17 42.6	- 3 17 43.5	- 3 17 44.4	- 3 17 45.2	- 3 17 45.9
137 35 00	- 3 19 51.3	- 3 19 52.3	- 3 19 53.2	- 3 19 54.0	- 3 19 54.8
137 37 30	- 3 22 00.1	- 3 22 01.1	- 3 22 02.0	- 3 22 02.9	- 3 22 03.7
137 40 00	- 3 24 08.9	- 3 24 09.9	- 3 24 10.9	- 3 24 11.8	- 3 24 12.7
137 42 30	- 3 26 17.7	- 3 26 18.8	- 3 26 19.8	- 3 26 20.7	- 3 26 21.6
137 45 00	- 3 28 26.6	- 3 28 27.7	- 3 28 28.7	- 3 28 29.6	- 3 28 30.6
137 47 30	- 3 30 35.4	- 3 30 36.5	- 3 30 37.6	- 3 30 38.6	- 3 30 39.5
137 50 00	- 3 32 44.3	- 3 32 45.4	- 3 32 46.5	- 3 32 47.5	- 3 32 48.5
137 52 30	- 3 34 53.2	- 3 34 54.3	- 3 34 55.4	- 3 34 56.5	- 3 34 57.5
137 55 00	- 3 37 02.0	- 3 37 03.2	- 3 37 04.4	- 3 37 05.5	- 3 37 06.5
137 57 30	- 3 39 10.9	- 3 39 12.2	- 3 39 13.4	- 3 39 14.5	- 3 39 15.6
138 00 00	- 3 41 19.9	- 3 41 21.1	- 3 41 22.4	- 3 41 23.5	- 3 41 24.6
138 02 30	- 3 43 28.8	- 3 43 30.1	- 3 43 31.3	- 3 43 32.5	- 3 43 33.7
138 05 00	- 3 45 37.7	- 3 45 39.1	- 3 45 40.4	- 3 45 41.6	- 3 45 42.8
138 07 30	- 3 47 46.7	- 3 47 48.1	- 3 47 49.4	- 3 47 50.6	- 3 47 51.9
138 10 00	- 3 49 55.7	- 3 49 57.1	- 3 49 58.4	- 3 49 59.7	- 3 50 01.0
138 12 30	- 3 52 04.7	- 3 52 06.1	- 3 52 07.5	- 3 52 08.8	- 3 52 10.1
138 15 00	- 3 54 13.7	- 3 54 15.2	- 3 54 16.6	- 3 54 17.9	- 3 54 19.2
138 17 30	- 3 56 22.7	- 3 56 24.2	- 3 56 25.6	- 3 56 27.0	- 3 56 28.4
138 20 00	- 3 58 31.8	- 3 58 33.3	- 3 58 34.7	- 3 58 36.2	- 3 58 37.5
138 22 30	- 4 00 40.8	- 4 00 42.4	- 4 00 43.9	- 4 00 45.3	- 4 00 46.7
138 25 00	- 4 02 49.9	- 4 02 51.5	- 4 02 53.0	- 4 02 54.5	- 4 02 55.9
138 27 30	- 4 04 59.0	- 4 05 00.6	- 4 05 02.1	- 4 05 03.6	- 4 05 05.1
138 30 00	- 4 07 08.1	- 4 07 09.7	- 4 07 11.3	- 4 07 12.8	- 4 07 14.3

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	58 50 00	58 52 30	58 55 00	58 57 30	59 00 00
136 00 00	0.9999031	0.9999044	0.9999058	0.9999075	0.9999093
136 02 30	0.9999024	0.9999035	0.9999049	0.9999064	0.9999081
136 05 00	0.9999018	0.9999028	0.9999040	0.9999054	0.9999070
136 07 30	0.9999013	0.9999021	0.9999032	0.9999045	0.9999059
136 10 00	0.9999008	0.9999016	0.9999025	0.9999036	0.9999050
136 12 30	0.9999005	0.9999011	0.9999019	0.9999029	0.9999041
136 15 00	0.9999002	0.9999007	0.9999013	0.9999022	0.9999033
136 17 30	0.9999000	0.9999004	0.9999009	0.9999016	0.9999026
136 20 00	0.9999000	0.9999001	0.9999005	0.9999011	0.9999019
136 22 30	0.9998999	0.9999000	0.9999002	0.9999007	0.9999014
136 25 00	0.9999000	0.9998999	0.9999001	0.9999004	0.9999009
136 27 30	0.9999002	0.9999000	0.9998999	0.9999002	0.9999006
136 30 00	0.9999004	0.9999001	0.9998999	0.9999000	0.9999003
136 32 30	0.9999008	0.9999003	0.9999000	0.9998999	0.9999001
136 35 00	0.9999012	0.9999006	0.9999001	0.9998999	0.9999000
136 37 30	0.9999017	0.9999009	0.9999004	0.9999000	0.9998999
136 40 00	0.9999023	0.9999014	0.9999007	0.9999002	0.9999000
136 42 30	0.9999029	0.9999019	0.9999011	0.9999005	0.9999001
136 45 00	0.9999037	0.9999025	0.9999016	0.9999008	0.9999003
136 47 30	0.9999045	0.9999032	0.9999021	0.9999013	0.9999006
136 50 00	0.9999054	0.9999040	0.9999028	0.9999018	0.9999010
136 52 30	0.9999064	0.9999049	0.9999035	0.9999024	0.9999015
136 55 00	0.9999075	0.9999058	0.9999043	0.9999031	0.9999020
136 57 30	0.9999087	0.9999069	0.9999052	0.9999038	0.9999026
137 00 00	0.9999100	0.9999080	0.9999062	0.9999047	0.9999034
137 02 30	0.9999113	0.9999092	0.9999073	0.9999056	0.9999042
137 05 00	0.9999127	0.9999105	0.9999085	0.9999066	0.9999050
137 07 30	0.9999142	0.9999119	0.9999097	0.9999077	0.9999060
137 10 00	0.9999158	0.9999133	0.9999110	0.9999089	0.9999070
137 12 30	0.9999175	0.9999148	0.9999124	0.9999102	0.9999082
137 15 00	0.9999193	0.9999165	0.9999139	0.9999115	0.9999094
137 17 30	0.9999211	0.9999182	0.9999155	0.9999130	0.9999107
137 20 00	0.9999230	0.9999199	0.9999171	0.9999145	0.9999120
137 22 30	0.9999250	0.9999218	0.9999188	0.9999161	0.9999135
137 25 00	0.9999271	0.9999238	0.9999206	0.9999177	0.9999150
137 27 30	0.9999293	0.9999258	0.9999225	0.9999195	0.9999167
137 30 00	0.9999315	0.9999279	0.9999245	0.9999213	0.9999184
137 32 30	0.9999338	0.9999301	0.9999266	0.9999232	0.9999201
137 35 00	0.9999363	0.9999324	0.9999287	0.9999252	0.9999220
137 37 30	0.9999388	0.9999347	0.9999309	0.9999273	0.9999240
137 40 00	0.9999413	0.9999372	0.9999332	0.9999295	0.9999260
137 42 30	0.9999440	0.9999397	0.9999356	0.9999317	0.9999281
137 45 00	0.9999467	0.9999423	0.9999381	0.9999341	0.9999303
137 47 30	0.9999495	0.9999450	0.9999406	0.9999365	0.9999325
137 50 00	0.9999524	0.9999477	0.9999432	0.9999389	0.9999349
137 52 30	0.9999554	0.9999506	0.9999459	0.9999415	0.9999373
137 55 00	0.9999585	0.9999535	0.9999487	0.9999442	0.9999398
137 57 30	0.9999616	0.9999565	0.9999516	0.9999469	0.9999424
138 00 00	0.9999648	0.9999596	0.9999545	0.9999497	0.9999451
138 02 30	0.9999681	0.9999627	0.9999575	0.9999526	0.9999478
138 05 00	0.9999715	0.9999660	0.9999606	0.9999555	0.9999506
138 07 30	0.9999750	0.9999693	0.9999638	0.9999586	0.9999536
138 10 00	0.9999785	0.9999727	0.9999671	0.9999617	0.9999565
138 12 30	0.9999822	0.9999762	0.9999704	0.9999649	0.9999596
138 15 00	0.9999859	0.9999797	0.9999739	0.9999682	0.9999627
138 17 30	0.9999896	0.9999834	0.9999774	0.9999715	0.9999660
138 20 00	0.9999935	0.9999871	0.9999809	0.9999750	0.9999693
138 22 30	0.9999974	0.9999909	0.9999846	0.9999785	0.9999727
138 25 00	1.0000014	0.9999948	0.9999883	0.9999821	0.9999761
138 27 30	1.0000055	0.9999987	0.9999921	0.9999858	0.9999796
138 30 00	1.0000097	1.0000028	0.9999960	0.9999895	0.9999833

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 00 00	59 02 30	59 05 00	59 07 30	59 10 00
134 00 00	- 0 16 01.0	- 0 15 58.8	- 0 15 56.5	- 0 15 54.2	- 0 15 51.8
134 02 30	- 0 18 08.8	- 0 18 06.6	- 0 18 04.3	- 0 18 02.0	- 0 17 59.6
134 05 00	- 0 20 16.5	- 0 20 14.3	- 0 20 12.1	- 0 20 09.8	- 0 20 07.5
134 07 30	- 0 22 24.2	- 0 22 22.1	- 0 22 19.9	- 0 22 17.7	- 0 22 15.4
134 10 00	- 0 24 32.0	- 0 24 29.9	- 0 24 27.7	- 0 24 25.5	- 0 24 23.3
134 12 30	- 0 26 39.8	- 0 26 37.7	- 0 26 35.6	- 0 26 33.4	- 0 26 31.2
134 15 00	- 0 28 47.5	- 0 28 45.5	- 0 28 43.4	- 0 28 41.3	- 0 28 39.1
134 17 30	- 0 30 55.3	- 0 30 53.4	- 0 30 51.3	- 0 30 49.2	- 0 30 47.1
134 20 00	- 0 33 03.1	- 0 33 01.2	- 0 32 59.2	- 0 32 57.1	- 0 32 55.0
134 22 30	- 0 35 11.0	- 0 35 09.1	- 0 35 07.1	- 0 35 05.1	- 0 35 03.0
134 25 00	- 0 37 18.8	- 0 37 16.9	- 0 37 15.0	- 0 37 13.0	- 0 37 11.0
134 27 30	- 0 39 26.7	- 0 39 24.8	- 0 39 22.9	- 0 39 21.0	- 0 39 19.0
134 30 00	- 0 41 34.5	- 0 41 32.7	- 0 41 30.9	- 0 41 29.0	- 0 41 27.0
134 32 30	- 0 43 42.4	- 0 43 40.6	- 0 43 38.8	- 0 43 36.9	- 0 43 35.0
134 35 00	- 0 45 50.3	- 0 45 48.6	- 0 45 46.8	- 0 45 44.9	- 0 45 43.1
134 37 30	- 0 47 58.2	- 0 47 56.5	- 0 47 54.8	- 0 47 53.0	- 0 47 51.1
134 40 00	- 0 50 06.1	- 0 50 04.5	- 0 50 02.7	- 0 50 01.0	- 0 49 59.2
134 42 30	- 0 52 14.0	- 0 52 12.4	- 0 52 10.7	- 0 52 09.0	- 0 52 07.2
134 45 00	- 0 54 22.0	- 0 54 20.4	- 0 54 18.8	- 0 54 17.1	- 0 54 15.3
134 47 30	- 0 56 29.9	- 0 56 28.4	- 0 56 26.8	- 0 56 25.1	- 0 56 23.4
134 50 00	- 0 58 37.9	- 0 58 36.4	- 0 58 34.8	- 0 58 33.2	- 0 58 31.5
134 52 30	- 1 00 45.9	- 1 00 44.4	- 1 00 42.9	- 1 00 41.3	- 1 00 39.7
134 55 00	- 1 02 53.9	- 1 02 52.5	- 1 02 51.0	- 1 02 49.4	- 1 02 47.8
134 57 30	- 1 05 01.9	- 1 05 00.5	- 1 04 59.0	- 1 04 57.5	- 1 04 56.0
135 00 00	- 1 07 09.9	- 1 07 08.6	- 1 07 07.1	- 1 07 05.7	- 1 07 04.1
135 02 30	- 1 09 18.0	- 1 09 16.6	- 1 09 15.3	- 1 09 13.8	- 1 09 12.3
135 05 00	- 1 11 26.0	- 1 11 24.7	- 1 11 23.4	- 1 11 22.0	- 1 11 20.5
135 07 30	- 1 13 34.1	- 1 13 32.8	- 1 13 31.5	- 1 13 30.1	- 1 13 28.7
135 10 00	- 1 15 42.2	- 1 15 41.0	- 1 15 39.7	- 1 15 38.3	- 1 15 36.9
135 12 30	- 1 17 50.3	- 1 17 49.1	- 1 17 47.8	- 1 17 46.5	- 1 17 45.2
135 15 00	- 1 19 58.4	- 1 19 57.2	- 1 19 56.0	- 1 19 54.8	- 1 19 53.4
135 17 30	- 1 22 06.5	- 1 22 05.4	- 1 22 04.2	- 1 22 03.0	- 1 22 01.7
135 20 00	- 1 24 14.6	- 1 24 13.6	- 1 24 12.4	- 1 24 11.2	- 1 24 10.0
135 22 30	- 1 26 22.8	- 1 26 21.7	- 1 26 20.6	- 1 26 19.5	- 1 26 18.3
135 25 00	- 1 28 31.0	- 1 28 29.9	- 1 28 28.9	- 1 28 27.7	- 1 28 26.6
135 27 30	- 1 30 39.1	- 1 30 38.2	- 1 30 37.1	- 1 30 36.0	- 1 30 34.9
135 30 00	- 1 32 47.3	- 1 32 46.4	- 1 32 45.4	- 1 32 44.3	- 1 32 43.2
135 32 30	- 1 34 55.5	- 1 34 54.6	- 1 34 53.7	- 1 34 52.6	- 1 34 51.6
135 35 00	- 1 37 03.8	- 1 37 02.9	- 1 37 01.9	- 1 37 01.0	- 1 36 59.9
135 37 30	- 1 39 12.0	- 1 39 11.1	- 1 39 10.2	- 1 39 09.3	- 1 39 08.3
135 40 00	- 1 41 20.2	- 1 41 19.4	- 1 41 18.6	- 1 41 17.6	- 1 41 16.7
135 42 30	- 1 43 28.5	- 1 43 27.7	- 1 43 26.9	- 1 43 26.0	- 1 43 25.1
135 45 00	- 1 45 36.8	- 1 45 36.0	- 1 45 35.2	- 1 45 34.4	- 1 45 33.5
135 47 30	- 1 47 45.1	- 1 47 44.3	- 1 47 43.6	- 1 47 42.8	- 1 47 41.9
135 50 00	- 1 49 53.4	- 1 49 52.7	- 1 49 52.0	- 1 49 51.2	- 1 49 50.4
135 52 30	- 1 52 01.7	- 1 52 01.0	- 1 52 00.3	- 1 51 59.6	- 1 51 58.8
135 55 00	- 1 54 10.0	- 1 54 09.4	- 1 54 08.7	- 1 54 08.0	- 1 54 07.3
135 57 30	- 1 56 18.3	- 1 56 17.8	- 1 56 17.2	- 1 56 16.5	- 1 56 15.8
136 00 00	- 1 58 26.7	- 1 58 26.2	- 1 58 25.6	- 1 58 24.9	- 1 58 24.3
136 02 30	- 2 00 35.1	- 2 00 34.6	- 2 00 34.0	- 2 00 33.4	- 2 00 32.8
136 05 00	- 2 02 43.5	- 2 02 43.0	- 2 02 42.5	- 2 02 41.9	- 2 02 41.3
136 07 30	- 2 04 51.9	- 2 04 51.4	- 2 04 50.9	- 2 04 50.4	- 2 04 49.8
136 10 00	- 2 07 00.3	- 2 06 59.9	- 2 06 59.4	- 2 06 58.9	- 2 06 58.4
136 12 30	- 2 09 08.7	- 2 09 08.3	- 2 09 07.9	- 2 09 07.5	- 2 09 06.9
136 15 00	- 2 11 17.1	- 2 11 16.8	- 2 11 16.4	- 2 11 16.0	- 2 11 15.5
136 17 30	- 2 13 25.6	- 2 13 25.3	- 2 13 25.0	- 2 13 24.6	- 2 13 24.1
136 20 00	- 2 15 34.1	- 2 15 33.8	- 2 15 33.5	- 2 15 33.1	- 2 15 32.7
136 22 30	- 2 17 42.6	- 2 17 42.3	- 2 17 42.1	- 2 17 41.7	- 2 17 41.3
136 25 00	- 2 19 51.1	- 2 19 50.9	- 2 19 50.6	- 2 19 50.3	- 2 19 50.0
136 27 30	- 2 21 59.6	- 2 21 59.4	- 2 21 59.2	- 2 21 58.9	- 2 21 58.6
136 30 00	- 2 24 08.1	- 2 24 08.0	- 2 24 07.8	- 2 24 07.6	- 2 24 07.3

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 00 00	59 02 30	59 05 00	59 07 30	59 10 00
134 00 00	1.0000716	1.0000798	1.0000882	1.0000968	1.0001056
134 02 30	1.0000661	1.0000742	1.0000824	1.0000909	1.0000996
134 05 00	1.0000607	1.0000686	1.0000768	1.0000852	1.0000937
134 07 30	1.0000554	1.0000632	1.0000712	1.0000795	1.0000879
134 10 00	1.0000501	1.0000579	1.0000658	1.0000739	1.0000822
134 12 30	1.0000450	1.0000526	1.0000604	1.0000684	1.0000766
134 15 00	1.0000400	1.0000474	1.0000551	1.0000630	1.0000710
134 17 30	1.0000350	1.0000424	1.0000499	1.0000577	1.0000656
134 20 00	1.0000302	1.0000374	1.0000448	1.0000524	1.0000602
134 22 30	1.0000254	1.0000325	1.0000398	1.0000473	1.0000550
134 25 00	1.0000207	1.0000277	1.0000349	1.0000422	1.0000498
134 27 30	1.0000162	1.0000230	1.0000300	1.0000373	1.0000447
134 30 00	1.0000117	1.0000184	1.0000253	1.0000324	1.0000397
134 32 30	1.0000073	1.0000139	1.0000207	1.0000276	1.0000348
134 35 00	1.0000030	1.0000094	1.0000161	1.0000230	1.0000300
134 37 30	0.9999988	1.0000051	1.0000116	1.0000184	1.0000253
134 40 00	0.9999946	1.0000008	1.0000072	1.0000138	1.0000207
134 42 30	0.9999906	0.9999967	1.0000030	1.0000094	1.0000161
134 45 00	0.9999866	0.9999926	0.9999987	1.0000051	1.0000117
134 47 30	0.9999828	0.9999886	0.9999946	1.0000009	1.0000073
134 50 00	0.9999790	0.9999847	0.9999906	0.9999967	1.0000030
134 52 30	0.9999753	0.9999809	0.9999867	0.9999926	0.9999988
134 55 00	0.9999717	0.9999772	0.9999828	0.9999887	0.9999947
134 57 30	0.9999682	0.9999736	0.9999791	0.9999848	0.9999907
135 00 00	0.9999648	0.9999700	0.9999754	0.9999810	0.9999868
135 02 30	0.9999615	0.9999666	0.9999718	0.9999773	0.9999830
135 05 00	0.9999583	0.9999632	0.9999683	0.9999737	0.9999792
135 07 30	0.9999551	0.9999599	0.9999649	0.9999701	0.9999756
135 10 00	0.9999521	0.9999567	0.9999616	0.9999667	0.9999720
135 12 30	0.9999491	0.9999537	0.9999584	0.9999634	0.9999685
135 15 00	0.9999462	0.9999506	0.9999553	0.9999601	0.9999651
135 17 30	0.9999434	0.9999477	0.9999522	0.9999569	0.9999618
135 20 00	0.9999407	0.9999449	0.9999493	0.9999538	0.9999586
135 22 30	0.9999381	0.9999421	0.9999464	0.9999508	0.9999555
135 25 00	0.9999356	0.9999395	0.9999436	0.9999479	0.9999524
135 27 30	0.9999331	0.9999369	0.9999409	0.9999451	0.9999495
135 30 00	0.9999308	0.9999344	0.9999383	0.9999423	0.9999466
135 32 30	0.9999285	0.9999320	0.9999358	0.9999397	0.9999438
135 35 00	0.9999263	0.9999297	0.9999333	0.9999371	0.9999411
135 37 30	0.9999243	0.9999275	0.9999310	0.9999346	0.9999385
135 40 00	0.9999223	0.9999254	0.9999287	0.9999322	0.9999360
135 42 30	0.9999203	0.9999233	0.9999265	0.9999299	0.9999335
135 45 00	0.9999185	0.9999214	0.9999244	0.9999277	0.9999312
135 47 30	0.9999168	0.9999195	0.9999224	0.9999256	0.9999289
135 50 00	0.9999151	0.9999177	0.9999205	0.9999235	0.9999268
135 52 30	0.9999135	0.9999160	0.9999187	0.9999216	0.9999247
135 55 00	0.9999121	0.9999144	0.9999169	0.9999197	0.9999227
135 57 30	0.9999107	0.9999129	0.9999153	0.9999179	0.9999207
136 00 00	0.9999093	0.9999114	0.9999137	0.9999162	0.9999189
136 02 30	0.9999081	0.9999101	0.9999122	0.9999146	0.9999172
136 05 00	0.9999070	0.9999088	0.9999108	0.9999131	0.9999155
136 07 30	0.9999059	0.9999076	0.9999095	0.9999116	0.9999139
136 10 00	0.9999050	0.9999065	0.9999083	0.9999102	0.9999124
136 12 30	0.9999041	0.9999055	0.9999071	0.9999090	0.9999110
136 15 00	0.9999033	0.9999046	0.9999061	0.9999078	0.9999097
136 17 30	0.9999026	0.9999037	0.9999051	0.9999067	0.9999084
136 20 00	0.9999019	0.9999030	0.9999042	0.9999056	0.9999073
136 22 30	0.9999014	0.9999023	0.9999034	0.9999047	0.9999062
136 25 00	0.9999009	0.9999017	0.9999027	0.9999038	0.9999052
136 27 30	0.9999006	0.9999012	0.9999020	0.9999031	0.9999043
136 30 00	0.9999003	0.9999008	0.9999015	0.9999024	0.9999035

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 00 00	59 02 30	59 05 00	59 07 30	59 10 00
136 30 00	- 2 24 08.1	- 2 24 08.0	- 2 24 07.8	- 2 24 07.6	- 2 24 07.3
136 32 30	- 2 26 16.6	- 2 26 16.5	- 2 26 16.4	- 2 26 16.2	- 2 26 16.0
136 35 00	- 2 28 25.2	- 2 28 25.1	- 2 28 25.0	- 2 28 24.9	- 2 28 24.6
136 37 30	- 2 30 33.8	- 2 30 33.7	- 2 30 33.7	- 2 30 33.5	- 2 30 33.3
136 40 00	- 2 32 42.3	- 2 32 42.4	- 2 32 42.3	- 2 32 42.2	- 2 32 42.1
136 42 30	- 2 34 50.9	- 2 34 51.0	- 2 34 51.0	- 2 34 50.9	- 2 34 50.8
136 45 00	- 2 36 59.6	- 2 36 59.6	- 2 36 59.7	- 2 36 59.6	- 2 36 59.5
136 47 30	- 2 39 08.2	- 2 39 08.3	- 2 39 08.4	- 2 39 08.4	- 2 39 08.3
136 50 00	- 2 41 16.8	- 2 41 17.0	- 2 41 17.1	- 2 41 17.1	- 2 41 17.1
136 52 30	- 2 43 25.5	- 2 43 25.7	- 2 43 25.8	- 2 43 25.8	- 2 43 25.9
136 55 00	- 2 45 34.2	- 2 45 34.4	- 2 45 34.5	- 2 45 34.6	- 2 45 34.7
136 57 30	- 2 47 42.8	- 2 47 43.1	- 2 47 43.3	- 2 47 43.4	- 2 47 43.5
137 00 00	- 2 49 51.5	- 2 49 51.8	- 2 49 52.0	- 2 49 52.2	- 2 49 52.3
137 02 30	- 2 52 00.2	- 2 52 00.6	- 2 52 00.8	- 2 52 01.0	- 2 52 01.2
137 05 00	- 2 54 09.0	- 2 54 09.3	- 2 54 09.6	- 2 54 09.8	- 2 54 10.0
137 07 30	- 2 56 17.7	- 2 56 18.1	- 2 56 18.4	- 2 56 18.7	- 2 56 18.9
137 10 00	- 2 58 26.5	- 2 58 26.9	- 2 58 27.2	- 2 58 27.5	- 2 58 27.8
137 12 30	- 3 00 35.2	- 3 00 35.7	- 3 00 36.1	- 3 00 36.4	- 3 00 36.7
137 15 00	- 3 02 44.0	- 3 02 44.5	- 3 02 44.9	- 3 02 45.3	- 3 02 45.6
137 17 30	- 3 04 52.8	- 3 04 53.3	- 3 04 53.8	- 3 04 54.2	- 3 04 54.5
137 20 00	- 3 07 01.6	- 3 07 02.2	- 3 07 02.7	- 3 07 03.1	- 3 07 03.5
137 22 30	- 3 09 10.5	- 3 09 11.0	- 3 09 11.6	- 3 09 12.0	- 3 09 12.4
137 25 00	- 3 11 19.3	- 3 11 19.9	- 3 11 20.5	- 3 11 21.0	- 3 11 21.4
137 27 30	- 3 13 28.2	- 3 13 28.8	- 3 13 29.4	- 3 13 29.9	- 3 13 30.4
137 30 00	- 3 15 37.0	- 3 15 37.7	- 3 15 38.3	- 3 15 38.9	- 3 15 39.4
137 32 30	- 3 17 45.9	- 3 17 46.6	- 3 17 47.3	- 3 17 47.9	- 3 17 48.4
137 35 00	- 3 19 54.8	- 3 19 55.6	- 3 19 56.2	- 3 19 56.9	- 3 19 57.4
137 37 30	- 3 22 03.7	- 3 22 04.5	- 3 22 05.2	- 3 22 05.9	- 3 22 06.5
137 40 00	- 3 24 12.7	- 3 24 13.5	- 3 24 14.2	- 3 24 14.9	- 3 24 15.5
137 42 30	- 3 26 21.6	- 3 26 22.4	- 3 26 23.2	- 3 26 23.9	- 3 26 24.6
137 45 00	- 3 28 30.6	- 3 28 31.4	- 3 28 32.2	- 3 28 33.0	- 3 28 33.7
137 47 30	- 3 30 39.5	- 3 30 40.4	- 3 30 41.3	- 3 30 42.1	- 3 30 42.8
137 50 00	- 3 32 48.5	- 3 32 49.5	- 3 32 50.3	- 3 32 51.1	- 3 32 51.9
137 52 30	- 3 34 57.5	- 3 34 58.5	- 3 34 59.4	- 3 35 00.2	- 3 35 01.0
137 55 00	- 3 37 06.5	- 3 37 07.5	- 3 37 08.5	- 3 37 09.4	- 3 37 10.2
137 57 30	- 3 39 15.6	- 3 39 16.6	- 3 39 17.6	- 3 39 18.5	- 3 39 19.3
138 00 00	- 3 41 24.6	- 3 41 25.7	- 3 41 26.7	- 3 41 27.6	- 3 41 28.5
138 02 30	- 3 43 33.7	- 3 43 34.8	- 3 43 35.8	- 3 43 36.8	- 3 43 37.7
138 05 00	- 3 45 42.8	- 3 45 43.9	- 3 45 44.9	- 3 45 46.0	- 3 45 46.9
138 07 30	- 3 47 51.9	- 3 47 53.0	- 3 47 54.1	- 3 47 55.1	- 3 47 56.1
138 10 00	- 3 50 01.0	- 3 50 02.1	- 3 50 03.3	- 3 50 04.3	- 3 50 05.4
138 12 30	- 3 52 10.1	- 3 52 11.3	- 3 52 12.5	- 3 52 13.6	- 3 52 14.6
138 15 00	- 3 54 19.2	- 3 54 20.5	- 3 54 21.6	- 3 54 22.8	- 3 54 23.9
138 17 30	- 3 56 28.4	- 3 56 29.6	- 3 56 30.9	- 3 56 32.0	- 3 56 33.1
138 20 00	- 3 58 37.5	- 3 58 38.8	- 3 58 40.1	- 3 58 41.3	- 3 58 42.4
138 22 30	- 4 00 46.7	- 4 00 48.0	- 4 00 49.3	- 4 00 50.6	- 4 00 51.7
138 25 00	- 4 02 55.9	- 4 02 57.3	- 4 02 58.6	- 4 02 59.8	- 4 03 01.1
138 27 30	- 4 05 05.1	- 4 05 06.5	- 4 05 07.9	- 4 05 09.2	- 4 05 10.4
138 30 00	- 4 07 14.3	- 4 07 15.8	- 4 07 17.1	- 4 07 18.5	- 4 07 19.7
138 32 30	- 4 09 23.6	- 4 09 25.0	- 4 09 26.4	- 4 09 27.8	- 4 09 29.1
138 35 00	- 4 11 32.8	- 4 11 34.3	- 4 11 35.8	- 4 11 37.1	- 4 11 38.5
138 37 30	- 4 13 42.1	- 4 13 43.6	- 4 13 45.1	- 4 13 46.5	- 4 13 47.9
138 40 00	- 4 15 51.4	- 4 15 52.9	- 4 15 54.4	- 4 15 55.9	- 4 15 57.3
138 42 30	- 4 18 00.7	- 4 18 02.3	- 4 18 03.8	- 4 18 05.3	- 4 18 06.7
138 45 00	- 4 20 10.0	- 4 20 11.6	- 4 20 13.2	- 4 20 14.7	- 4 20 16.1
138 47 30	- 4 22 19.3	- 4 22 21.0	- 4 22 22.6	- 4 22 24.1	- 4 22 25.6
138 50 00	- 4 24 28.6	- 4 24 30.3	- 4 24 32.0	- 4 24 33.5	- 4 24 35.1
138 52 30	- 4 26 38.0	- 4 26 39.7	- 4 26 41.4	- 4 26 43.0	- 4 26 44.5
138 55 00	- 4 28 47.4	- 4 28 49.1	- 4 28 50.8	- 4 28 52.4	- 4 28 54.0
138 57 30	- 4 30 56.8	- 4 30 58.5	- 4 31 00.3	- 4 31 01.9	- 4 31 03.5
139 00 00	- 4 33 06.2	- 4 33 08.0	- 4 33 09.7	- 4 33 11.4	- 4 33 13.1

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 00 00	59 02 30	59 05 00	59 07 30	59 10 00
136 30 00	0.9999003	0.9999008	0.9999015	0.9999024	0.9999035
136 32 30	0.9999001	0.9999004	0.9999010	0.9999018	0.9999028
136 35 00	0.9999000	0.9999002	0.9999006	0.9999013	0.9999021
136 37 30	0.9998999	0.9999000	0.9999003	0.9999008	0.9999016
136 40 00	0.9999000	0.9998999	0.9999001	0.9999005	0.9999011
136 42 30	0.9999001	0.9998999	0.9999000	0.9999002	0.9999007
136 45 00	0.9999003	0.9999000	0.9998999	0.9999000	0.9999004
136 47 30	0.9999006	0.9999002	0.9998999	0.9998999	0.9999001
136 50 00	0.9999010	0.9999004	0.9999001	0.9998999	0.9999000
136 52 30	0.9999015	0.9999007	0.9999002	0.9999000	0.9998999
136 55 00	0.9999020	0.9999012	0.9999005	0.9999001	0.9998999
136 57 30	0.9999026	0.9999017	0.9999009	0.9999003	0.9999000
137 00 00	0.9999034	0.9999022	0.9999013	0.9999007	0.9999002
137 02 30	0.9999042	0.9999029	0.9999019	0.9999011	0.9999004
137 05 00	0.9999050	0.9999036	0.9999025	0.9999015	0.9999008
137 07 30	0.9999060	0.9999045	0.9999032	0.9999021	0.9999012
137 10 00	0.9999070	0.9999054	0.9999040	0.9999027	0.9999017
137 12 30	0.9999082	0.9999064	0.9999048	0.9999035	0.9999023
137 15 00	0.9999094	0.9999075	0.9999057	0.9999043	0.9999030
137 17 30	0.9999107	0.9999086	0.9999068	0.9999051	0.9999037
137 20 00	0.9999120	0.9999099	0.9999079	0.9999061	0.9999046
137 22 30	0.9999135	0.9999112	0.9999091	0.9999072	0.9999055
137 25 00	0.9999150	0.9999126	0.9999103	0.9999083	0.9999065
137 27 30	0.9999167	0.9999141	0.9999117	0.9999095	0.9999076
137 30 00	0.9999184	0.9999156	0.9999131	0.9999108	0.9999087
137 32 30	0.9999201	0.9999173	0.9999146	0.9999122	0.9999100
137 35 00	0.9999220	0.9999190	0.9999162	0.9999136	0.9999113
137 37 30	0.9999240	0.9999208	0.9999179	0.9999152	0.9999127
137 40 00	0.9999260	0.9999227	0.9999196	0.9999168	0.9999142
137 42 30	0.9999281	0.9999247	0.9999215	0.9999185	0.9999157
137 45 00	0.9999303	0.9999267	0.9999234	0.9999203	0.9999174
137 47 30	0.9999325	0.9999288	0.9999254	0.9999221	0.9999191
137 50 00	0.9999349	0.9999310	0.9999274	0.9999240	0.9999209
137 52 30	0.9999373	0.9999333	0.9999296	0.9999261	0.9999228
137 55 00	0.9999398	0.9999357	0.9999318	0.9999282	0.9999247
137 57 30	0.9999424	0.9999382	0.9999341	0.9999303	0.9999268
138 00 00	0.9999451	0.9999407	0.9999365	0.9999326	0.9999289
138 02 30	0.9999478	0.9999433	0.9999390	0.9999349	0.9999311
138 05 00	0.9999506	0.9999460	0.9999416	0.9999373	0.9999333
138 07 30	0.9999536	0.9999488	0.9999442	0.9999398	0.9999357
138 10 00	0.9999565	0.9999516	0.9999469	0.9999424	0.9999381
138 12 30	0.9999596	0.9999545	0.9999497	0.9999451	0.9999406
138 15 00	0.9999627	0.9999575	0.9999525	0.9999478	0.9999432
138 17 30	0.9999660	0.9999606	0.9999555	0.9999506	0.9999459
138 20 00	0.9999693	0.9999638	0.9999585	0.9999535	0.9999487
138 22 30	0.9999727	0.9999670	0.9999616	0.9999564	0.9999515
138 25 00	0.9999761	0.9999703	0.9999648	0.9999595	0.9999544
138 27 30	0.9999796	0.9999737	0.9999681	0.9999626	0.9999574
138 30 00	0.9999833	0.9999772	0.9999714	0.9999658	0.9999604
138 32 30	0.9999870	0.9999808	0.9999748	0.9999691	0.9999636
138 35 00	0.9999907	0.9999844	0.9999783	0.9999724	0.9999668
138 37 30	0.9999946	0.9999881	0.9999819	0.9999759	0.9999701
138 40 00	0.9999985	0.9999919	0.9999855	0.9999794	0.9999735
138 42 30	1.0000025	0.9999958	0.9999892	0.9999830	0.9999769
138 45 00	1.0000066	0.9999997	0.9999930	0.9999866	0.9999804
138 47 30	1.0000108	1.0000037	0.9999969	0.9999904	0.9999840
138 50 00	1.0000150	1.0000078	1.0000009	0.9999942	0.9999877
138 52 30	1.0000193	1.0000120	1.0000049	0.9999981	0.9999915
138 55 00	1.0000237	1.0000162	1.0000090	1.0000020	0.9999953
138 57 30	1.0000282	1.0000206	1.0000132	1.0000061	0.9999992
139 00 00	1.0000327	1.0000250	1.0000175	1.0000102	1.0000032

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 10 00	59 12 30	59 15 00	59 17 30	59 20 00
134 30 00	- 0 41 27.0	- 0 41 25.0	- 0 41 22.9	- 0 41 20.8	- 0 41 18.6
134 32 30	- 0 43 35.0	- 0 43 33.0	- 0 43 31.0	- 0 43 28.9	- 0 43 26.8
134 35 00	- 0 45 43.1	- 0 45 41.1	- 0 45 39.1	- 0 45 37.1	- 0 45 35.0
134 37 30	- 0 47 51.1	- 0 47 49.2	- 0 47 47.2	- 0 47 45.2	- 0 47 43.2
134 40 00	- 0 49 59.2	- 0 49 57.3	- 0 49 55.4	- 0 49 53.4	- 0 49 51.4
134 42 30	- 0 52 07.2	- 0 52 05.4	- 0 52 03.5	- 0 52 01.6	- 0 51 59.6
134 45 00	- 0 54 15.3	- 0 54 13.5	- 0 54 11.7	- 0 54 09.8	- 0 54 07.8
134 47 30	- 0 56 23.4	- 0 56 21.7	- 0 56 19.9	- 0 56 18.0	- 0 56 16.1
134 50 00	- 0 58 31.5	- 0 58 29.8	- 0 58 28.0	- 0 58 26.2	- 0 58 24.3
134 52 30	- 1 00 39.7	- 1 00 38.0	- 1 00 36.2	- 1 00 34.4	- 1 00 32.6
134 55 00	- 1 02 47.8	- 1 02 46.2	- 1 02 44.4	- 1 02 42.7	- 1 02 40.9
134 57 30	- 1 04 56.0	- 1 04 54.3	- 1 04 52.7	- 1 04 51.0	- 1 04 49.2
135 00 00	- 1 07 04.1	- 1 07 02.6	- 1 07 00.9	- 1 06 59.2	- 1 06 57.5
135 02 30	- 1 09 12.3	- 1 09 10.8	- 1 09 09.2	- 1 09 07.5	- 1 09 05.8
135 05 00	- 1 11 20.5	- 1 11 19.0	- 1 11 17.4	- 1 11 15.8	- 1 11 14.1
135 07 30	- 1 13 28.7	- 1 13 27.2	- 1 13 25.7	- 1 13 24.1	- 1 13 22.5
135 10 00	- 1 15 36.9	- 1 15 35.5	- 1 15 34.0	- 1 15 32.5	- 1 15 30.9
135 12 30	- 1 17 45.2	- 1 17 43.8	- 1 17 42.3	- 1 17 40.8	- 1 17 39.2
135 15 00	- 1 19 53.4	- 1 19 52.1	- 1 19 50.6	- 1 19 49.2	- 1 19 47.6
135 17 30	- 1 22 01.7	- 1 22 00.4	- 1 21 59.0	- 1 21 57.5	- 1 21 56.0
135 20 00	- 1 24 10.0	- 1 24 08.7	- 1 24 07.3	- 1 24 05.9	- 1 24 04.4
135 22 30	- 1 26 18.3	- 1 26 17.0	- 1 26 15.7	- 1 26 14.3	- 1 26 12.9
135 25 00	- 1 28 26.6	- 1 28 25.3	- 1 28 24.0	- 1 28 22.7	- 1 28 21.3
135 27 30	- 1 30 34.9	- 1 30 33.7	- 1 30 32.4	- 1 30 31.1	- 1 30 29.8
135 30 00	- 1 32 43.2	- 1 32 42.1	- 1 32 40.8	- 1 32 39.6	- 1 32 38.2
135 32 30	- 1 34 51.6	- 1 34 50.4	- 1 34 49.3	- 1 34 48.0	- 1 34 46.7
135 35 00	- 1 36 59.9	- 1 36 58.8	- 1 36 57.7	- 1 36 56.5	- 1 36 55.2
135 37 30	- 1 39 08.3	- 1 39 07.2	- 1 39 06.1	- 1 39 05.0	- 1 39 03.7
135 40 00	- 1 41 16.7	- 1 41 15.7	- 1 41 14.6	- 1 41 13.4	- 1 41 12.3
135 42 30	- 1 43 25.1	- 1 43 24.1	- 1 43 23.0	- 1 43 21.9	- 1 43 20.8
135 45 00	- 1 45 33.5	- 1 45 32.5	- 1 45 31.5	- 1 45 30.5	- 1 45 29.4
135 47 30	- 1 47 41.9	- 1 47 41.0	- 1 47 40.0	- 1 47 39.0	- 1 47 37.9
135 50 00	- 1 49 50.4	- 1 49 49.5	- 1 49 48.5	- 1 49 47.5	- 1 49 46.5
135 52 30	- 1 51 58.8	- 1 51 58.0	- 1 51 57.1	- 1 51 56.1	- 1 51 55.1
135 55 00	- 1 54 07.3	- 1 54 06.5	- 1 54 05.6	- 1 54 04.7	- 1 54 03.7
135 57 30	- 1 56 15.8	- 1 56 15.0	- 1 56 14.1	- 1 56 13.3	- 1 56 12.3
136 00 00	- 1 58 24.3	- 1 58 23.5	- 1 58 22.7	- 1 58 21.9	- 1 58 20.9
136 02 30	- 2 00 32.8	- 2 00 32.0	- 2 00 31.3	- 2 00 30.5	- 2 00 29.6
136 05 00	- 2 02 41.3	- 2 02 40.6	- 2 02 39.9	- 2 02 39.1	- 2 02 38.3
136 07 30	- 2 04 49.8	- 2 04 49.2	- 2 04 48.5	- 2 04 47.7	- 2 04 46.9
136 10 00	- 2 06 58.4	- 2 06 57.8	- 2 06 57.1	- 2 06 56.4	- 2 06 55.6
136 12 30	- 2 09 06.9	- 2 09 06.4	- 2 09 05.7	- 2 09 05.0	- 2 09 04.3
136 15 00	- 2 11 15.5	- 2 11 15.0	- 2 11 14.4	- 2 11 13.7	- 2 11 13.0
136 17 30	- 2 13 24.1	- 2 13 23.6	- 2 13 23.0	- 2 13 22.4	- 2 13 21.8
136 20 00	- 2 15 32.7	- 2 15 32.2	- 2 15 31.7	- 2 15 31.1	- 2 15 30.5
136 22 30	- 2 17 41.3	- 2 17 40.9	- 2 17 40.4	- 2 17 39.9	- 2 17 39.3
136 25 00	- 2 19 50.0	- 2 19 49.6	- 2 19 49.1	- 2 19 48.6	- 2 19 48.0
136 27 30	- 2 21 58.6	- 2 21 58.2	- 2 21 57.8	- 2 21 57.3	- 2 21 56.8
136 30 00	- 2 24 07.3	- 2 24 06.9	- 2 24 06.5	- 2 24 06.1	- 2 24 05.6
136 32 30	- 2 26 16.0	- 2 26 15.6	- 2 26 15.3	- 2 26 14.9	- 2 26 14.4
136 35 00	- 2 28 24.6	- 2 28 24.4	- 2 28 24.0	- 2 28 23.7	- 2 28 23.2
136 37 30	- 2 30 33.3	- 2 30 33.1	- 2 30 32.8	- 2 30 32.5	- 2 30 32.1
136 40 00	- 2 32 42.1	- 2 32 41.9	- 2 32 41.6	- 2 32 41.3	- 2 32 40.9
136 42 30	- 2 34 50.8	- 2 34 50.6	- 2 34 50.4	- 2 34 50.1	- 2 34 49.8
136 45 00	- 2 36 59.5	- 2 36 59.4	- 2 36 59.2	- 2 36 59.0	- 2 36 58.7
136 47 30	- 2 39 08.3	- 2 39 08.2	- 2 39 08.0	- 2 39 07.8	- 2 39 07.6
136 50 00	- 2 41 17.1	- 2 41 17.0	- 2 41 16.9	- 2 41 16.7	- 2 41 16.5
136 52 30	- 2 43 25.9	- 2 43 25.8	- 2 43 25.7	- 2 43 25.6	- 2 43 25.4
136 55 00	- 2 45 34.7	- 2 45 34.7	- 2 45 34.6	- 2 45 34.5	- 2 45 34.3
136 57 30	- 2 47 43.5	- 2 47 43.5	- 2 47 43.5	- 2 47 43.4	- 2 47 43.3
137 00 00	- 2 49 52.3	- 2 49 52.4	- 2 49 52.4	- 2 49 52.3	- 2 49 52.2

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 10 00	59 12 30	59 15 00	59 17 30	59 20 00
134 30 00	1.0000397	1.0000472	1.0000549	1.0000628	1.0000709
134 32 30	1.0000348	1.0000422	1.0000498	1.0000575	1.0000655
134 35 00	1.0000300	1.0000373	1.0000447	1.0000523	1.0000602
134 37 30	1.0000253	1.0000324	1.0000397	1.0000472	1.0000550
134 40 00	1.0000207	1.0000276	1.0000348	1.0000422	1.0000498
134 42 30	1.0000161	1.0000230	1.0000301	1.0000373	1.0000448
134 45 00	1.0000117	1.0000184	1.0000253	1.0000325	1.0000398
134 47 30	1.0000073	1.0000139	1.0000207	1.0000277	1.0000350
134 50 00	1.0000030	1.0000095	1.0000162	1.0000231	1.0000302
134 52 30	0.9999988	1.0000052	1.0000118	1.0000185	1.0000255
134 55 00	0.9999947	1.0000010	1.0000074	1.0000141	1.0000209
134 57 30	0.9999907	0.9999968	1.0000031	1.0000097	1.0000164
135 00 00	0.9999868	0.9999928	0.9999990	1.0000054	1.0000120
135 02 30	0.9999830	0.9999888	0.9999949	1.0000011	1.0000076
135 05 00	0.9999792	0.9999849	0.9999909	0.9999970	1.0000034
135 07 30	0.9999756	0.9999812	0.9999870	0.9999930	0.9999992
135 10 00	0.9999720	0.9999775	0.9999832	0.9999890	0.9999951
135 12 30	0.9999685	0.9999739	0.9999794	0.9999852	0.9999911
135 15 00	0.9999651	0.9999703	0.9999758	0.9999814	0.9999872
135 17 30	0.9999618	0.9999669	0.9999722	0.9999777	0.9999834
135 20 00	0.9999586	0.9999636	0.9999687	0.9999741	0.9999797
135 22 30	0.9999555	0.9999603	0.9999653	0.9999706	0.9999761
135 25 00	0.9999524	0.9999571	0.9999621	0.9999672	0.9999725
135 27 30	0.9999495	0.9999540	0.9999588	0.9999638	0.9999690
135 30 00	0.9999466	0.9999510	0.9999557	0.9999606	0.9999656
135 32 30	0.9999438	0.9999481	0.9999527	0.9999574	0.9999624
135 35 00	0.9999411	0.9999453	0.9999497	0.9999543	0.9999591
135 37 30	0.9999385	0.9999426	0.9999469	0.9999513	0.9999560
135 40 00	0.9999360	0.9999399	0.9999441	0.9999484	0.9999530
135 42 30	0.9999335	0.9999374	0.9999414	0.9999456	0.9999500
135 45 00	0.9999312	0.9999349	0.9999388	0.9999429	0.9999472
135 47 30	0.9999289	0.9999325	0.9999363	0.9999402	0.9999444
135 50 00	0.9999268	0.9999302	0.9999338	0.9999377	0.9999417
135 52 30	0.9999247	0.9999280	0.9999315	0.9999352	0.9999391
135 55 00	0.9999227	0.9999258	0.9999292	0.9999328	0.9999366
135 57 30	0.9999207	0.9999238	0.9999270	0.9999305	0.9999341
136 00 00	0.9999189	0.9999218	0.9999249	0.9999282	0.9999318
136 02 30	0.9999172	0.9999199	0.9999229	0.9999261	0.9999295
136 05 00	0.9999155	0.9999181	0.9999210	0.9999241	0.9999273
136 07 30	0.9999139	0.9999164	0.9999192	0.9999221	0.9999252
136 10 00	0.9999124	0.9999148	0.9999174	0.9999202	0.9999232
136 12 30	0.9999110	0.9999133	0.9999157	0.9999184	0.9999213
136 15 00	0.9999097	0.9999118	0.9999141	0.9999167	0.9999194
136 17 30	0.9999084	0.9999104	0.9999126	0.9999151	0.9999177
136 20 00	0.9999073	0.9999091	0.9999112	0.9999135	0.9999160
136 22 30	0.9999062	0.9999079	0.9999099	0.9999120	0.9999144
136 25 00	0.9999052	0.9999068	0.9999086	0.9999107	0.9999129
136 27 30	0.9999043	0.9999058	0.9999075	0.9999094	0.9999115
136 30 00	0.9999035	0.9999048	0.9999064	0.9999081	0.9999101
136 32 30	0.9999028	0.9999040	0.9999054	0.9999070	0.9999089
136 35 00	0.9999021	0.9999032	0.9999045	0.9999060	0.9999077
136 37 30	0.9999016	0.9999025	0.9999036	0.9999050	0.9999066
136 40 00	0.9999011	0.9999019	0.9999029	0.9999041	0.9999056
136 42 30	0.9999007	0.9999013	0.9999022	0.9999033	0.9999046
136 45 00	0.9999004	0.9999009	0.9999016	0.9999026	0.9999038
136 47 30	0.9999001	0.9999005	0.9999012	0.9999020	0.9999030
136 50 00	0.9999000	0.9999002	0.9999007	0.9999014	0.9999024
136 52 30	0.9998999	0.9999000	0.9999004	0.9999010	0.9999018
136 55 00	0.9998999	0.9998999	0.9999001	0.9999006	0.9999012
136 57 30	0.9999000	0.9998999	0.9999000	0.9999003	0.9999008
137 00 00	0.9999002	0.9998999	0.9998999	0.9999001	0.9999005

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 10 00	59 12 30	59 15 00	59 17 30	59 20 00
137 00 00	- 2 49 52.3	- 2 49 52.4	- 2 49 52.4	- 2 49 52.3	- 2 49 52.2
137 02 30	- 2 52 01.2	- 2 52 01.3	- 2 52 01.3	- 2 52 01.3	- 2 52 01.2
137 05 00	- 2 54 10.0	- 2 54 10.1	- 2 54 10.2	- 2 54 10.2	- 2 54 10.2
137 07 30	- 2 56 18.9	- 2 56 19.1	- 2 56 19.2	- 2 56 19.2	- 2 56 19.2
137 10 00	- 2 58 27.8	- 2 58 28.0	- 2 58 28.1	- 2 58 28.2	- 2 58 28.2
137 12 30	- 3 00 36.7	- 3 00 36.9	- 3 00 37.1	- 3 00 37.2	- 3 00 37.3
137 15 00	- 3 02 45.6	- 3 02 45.9	- 3 02 46.1	- 3 02 46.2	- 3 02 46.3
137 17 30	- 3 04 54.5	- 3 04 54.8	- 3 04 55.1	- 3 04 55.2	- 3 04 55.4
137 20 00	- 3 07 03.5	- 3 07 03.8	- 3 07 04.1	- 3 07 04.3	- 3 07 04.4
137 22 30	- 3 09 12.4	- 3 09 12.8	- 3 09 13.1	- 3 09 13.3	- 3 09 13.5
137 25 00	- 3 11 21.4	- 3 11 21.8	- 3 11 22.1	- 3 11 22.4	- 3 11 22.6
137 27 30	- 3 13 30.4	- 3 13 30.8	- 3 13 31.2	- 3 13 31.5	- 3 13 31.8
137 30 00	- 3 15 39.4	- 3 15 39.8	- 3 15 40.2	- 3 15 40.6	- 3 15 40.9
137 32 30	- 3 17 48.4	- 3 17 48.9	- 3 17 49.3	- 3 17 49.7	- 3 17 50.0
137 35 00	- 3 19 57.4	- 3 19 58.0	- 3 19 58.4	- 3 19 58.8	- 3 19 59.2
137 37 30	- 3 22 06.5	- 3 22 07.0	- 3 22 07.5	- 3 22 08.0	- 3 22 08.4
137 40 00	- 3 24 15.5	- 3 24 16.1	- 3 24 16.7	- 3 24 17.1	- 3 24 17.5
137 42 30	- 3 26 24.6	- 3 26 25.2	- 3 26 25.8	- 3 26 26.3	- 3 26 26.8
137 45 00	- 3 28 33.7	- 3 28 34.3	- 3 28 34.9	- 3 28 35.5	- 3 28 36.0
137 47 30	- 3 30 42.8	- 3 30 43.5	- 3 30 44.1	- 3 30 44.7	- 3 30 45.2
137 50 00	- 3 32 51.9	- 3 32 52.6	- 3 32 53.3	- 3 32 53.9	- 3 32 54.4
137 52 30	- 3 35 01.0	- 3 35 01.8	- 3 35 02.5	- 3 35 03.1	- 3 35 03.7
137 55 00	- 3 37 10.2	- 3 37 11.0	- 3 37 11.7	- 3 37 12.4	- 3 37 13.0
137 57 30	- 3 39 19.3	- 3 39 20.2	- 3 39 20.9	- 3 39 21.6	- 3 39 22.3
138 00 00	- 3 41 28.5	- 3 41 29.4	- 3 41 30.1	- 3 41 30.9	- 3 41 31.6
138 02 30	- 3 43 37.7	- 3 43 38.6	- 3 43 39.4	- 3 43 40.2	- 3 43 40.9
138 05 00	- 3 45 46.9	- 3 45 47.8	- 3 45 48.7	- 3 45 49.5	- 3 45 50.2
138 07 30	- 3 47 56.1	- 3 47 57.1	- 3 47 57.9	- 3 47 58.8	- 3 47 59.5
138 10 00	- 3 50 05.4	- 3 50 06.3	- 3 50 07.2	- 3 50 08.1	- 3 50 08.9
138 12 30	- 3 52 14.6	- 3 52 15.6	- 3 52 16.6	- 3 52 17.4	- 3 52 18.3
138 15 00	- 3 54 23.9	- 3 54 24.9	- 3 54 25.9	- 3 54 26.8	- 3 54 27.7
138 17 30	- 3 56 33.1	- 3 56 34.2	- 3 56 35.2	- 3 56 36.2	- 3 56 37.1
138 20 00	- 3 58 42.4	- 3 58 43.5	- 3 58 44.6	- 3 58 45.6	- 3 58 46.5
138 22 30	- 4 00 51.7	- 4 00 52.9	- 4 00 53.9	- 4 00 55.0	- 4 00 55.9
138 25 00	- 4 03 01.1	- 4 03 02.2	- 4 03 03.3	- 4 03 04.4	- 4 03 05.4
138 27 30	- 4 05 10.4	- 4 05 11.6	- 4 05 12.7	- 4 05 13.8	- 4 05 14.8
138 30 00	- 4 07 19.7	- 4 07 21.0	- 4 07 22.1	- 4 07 23.2	- 4 07 24.3
138 32 30	- 4 09 29.1	- 4 09 30.4	- 4 09 31.5	- 4 09 32.7	- 4 09 33.8
138 35 00	- 4 11 38.5	- 4 11 39.8	- 4 11 41.0	- 4 11 42.2	- 4 11 43.3
138 37 30	- 4 13 47.9	- 4 13 49.2	- 4 13 50.4	- 4 13 51.6	- 4 13 52.8
138 40 00	- 4 15 57.3	- 4 15 58.6	- 4 15 59.9	- 4 16 01.1	- 4 16 02.3
138 42 30	- 4 18 06.7	- 4 18 08.1	- 4 18 09.4	- 4 18 10.7	- 4 18 11.9
138 45 00	- 4 20 16.1	- 4 20 17.5	- 4 20 18.9	- 4 20 20.2	- 4 20 21.4
138 47 30	- 4 22 25.6	- 4 22 27.0	- 4 22 28.4	- 4 22 29.7	- 4 22 31.0
138 50 00	- 4 24 35.1	- 4 24 36.5	- 4 24 37.9	- 4 24 39.3	- 4 24 40.6
138 52 30	- 4 26 44.5	- 4 26 46.0	- 4 26 47.5	- 4 26 48.9	- 4 26 50.2
138 55 00	- 4 28 54.0	- 4 28 55.6	- 4 28 57.0	- 4 28 58.4	- 4 28 59.8
138 57 30	- 4 31 03.5	- 4 31 05.1	- 4 31 06.6	- 4 31 08.1	- 4 31 09.4
139 00 00	- 4 33 13.1	- 4 33 14.7	- 4 33 16.2	- 4 33 17.7	- 4 33 19.1
139 02 30	- 4 35 22.6	- 4 35 24.2	- 4 35 25.8	- 4 35 27.3	- 4 35 28.8
139 05 00	- 4 37 32.2	- 4 37 33.8	- 4 37 35.4	- 4 37 36.9	- 4 37 38.4
139 07 30	- 4 39 41.7	- 4 39 43.4	- 4 39 45.0	- 4 39 46.6	- 4 39 48.1
139 10 00	- 4 41 51.3	- 4 41 53.0	- 4 41 54.7	- 4 41 56.3	- 4 41 57.8
139 12 30	- 4 44 00.9	- 4 44 02.6	- 4 44 04.3	- 4 44 06.0	- 4 44 07.5
139 15 00	- 4 46 10.5	- 4 46 12.3	- 4 46 14.0	- 4 46 15.7	- 4 46 17.3
139 17 30	- 4 48 20.2	- 4 48 22.0	- 4 48 23.7	- 4 48 25.4	- 4 48 27.0
139 20 00	- 4 50 29.8	- 4 50 31.6	- 4 50 33.4	- 4 50 35.1	- 4 50 36.8
139 22 30	- 4 52 39.5	- 4 52 41.3	- 4 52 43.1	- 4 52 44.9	- 4 52 46.6
139 25 00	- 4 54 49.1	- 4 54 51.0	- 4 54 52.9	- 4 54 54.6	- 4 54 56.4
139 27 30	- 4 56 58.8	- 4 57 00.7	- 4 57 02.6	- 4 57 04.4	- 4 57 06.2
139 30 00	- 4 59 08.5	- 4 59 10.5	- 4 59 12.4	- 4 59 14.2	- 4 59 16.0

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277\times10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 10 00	59 12 30	59 15 00	59 17 30	59 20 00
137 00 00	0.9999002	0.9998999	0.9998999	0.9999001	0.9999005
137 02 30	0.9999004	0.9999001	0.9998999	0.9998999	0.9999002
137 05 00	0.9999008	0.9999003	0.9999000	0.9998999	0.9999000
137 07 30	0.9999012	0.9999006	0.9999001	0.9998999	0.9998999
137 10 00	0.9999017	0.9999009	0.9999004	0.9999000	0.9998999
137 12 30	0.9999023	0.9999014	0.9999007	0.9999002	0.9998999
137 15 00	0.9999030	0.9999019	0.9999011	0.9999005	0.9999001
137 17 30	0.9999037	0.9999025	0.9999016	0.9999008	0.9999003
137 20 00	0.9999046	0.9999032	0.9999021	0.9999012	0.9999006
137 22 30	0.9999055	0.9999040	0.9999028	0.9999018	0.9999009
137 25 00	0.9999065	0.9999049	0.9999035	0.9999024	0.9999014
137 27 30	0.9999076	0.9999058	0.9999043	0.9999030	0.9999019
137 30 00	0.9999087	0.9999068	0.9999052	0.9999038	0.9999026
137 32 30	0.9999100	0.9999080	0.9999062	0.9999046	0.9999033
137 35 00	0.9999113	0.9999091	0.9999072	0.9999055	0.9999041
137 37 30	0.9999127	0.9999104	0.9999084	0.9999065	0.9999049
137 40 00	0.9999142	0.9999117	0.9999096	0.9999076	0.9999059
137 42 30	0.9999157	0.9999132	0.9999109	0.9999088	0.9999069
137 45 00	0.9999174	0.9999147	0.9999122	0.9999100	0.9999080
137 47 30	0.9999191	0.9999163	0.9999137	0.9999113	0.9999092
137 50 00	0.9999209	0.9999179	0.9999152	0.9999127	0.9999104
137 52 30	0.9999228	0.9999197	0.9999168	0.9999142	0.9999118
137 55 00	0.9999247	0.9999215	0.9999185	0.9999157	0.9999132
137 57 30	0.9999268	0.9999234	0.9999203	0.9999174	0.9999147
138 00 00	0.9999289	0.9999254	0.9999221	0.9999191	0.9999162
138 02 30	0.9999311	0.9999274	0.9999240	0.9999209	0.9999179
138 05 00	0.9999333	0.9999296	0.9999260	0.9999227	0.9999196
138 07 30	0.9999357	0.9999318	0.9999281	0.9999247	0.9999214
138 10 00	0.9999381	0.9999341	0.9999303	0.9999267	0.9999233
138 12 30	0.9999406	0.9999365	0.9999325	0.9999288	0.9999253
138 15 00	0.9999432	0.9999389	0.9999348	0.9999310	0.9999273
138 17 30	0.9999459	0.9999415	0.9999372	0.9999332	0.9999295
138 20 00	0.9999487	0.9999441	0.9999397	0.9999356	0.9999317
138 22 30	0.9999515	0.9999468	0.9999423	0.9999380	0.9999339
138 25 00	0.9999544	0.9999495	0.9999449	0.9999405	0.9999363
138 27 30	0.9999574	0.9999524	0.9999476	0.9999431	0.9999387
138 30 00	0.9999604	0.9999553	0.9999504	0.9999457	0.9999412
138 32 30	0.9999636	0.9999583	0.9999532	0.9999484	0.9999438
138 35 00	0.9999668	0.9999614	0.9999562	0.9999512	0.9999465
138 37 30	0.9999701	0.9999645	0.9999592	0.9999541	0.9999492
138 40 00	0.9999735	0.9999678	0.9999623	0.9999571	0.9999521
138 42 30	0.9999769	0.9999711	0.9999655	0.9999601	0.9999550
138 45 00	0.9999804	0.9999745	0.9999687	0.9999632	0.9999579
138 47 30	0.9999840	0.9999779	0.9999720	0.9999664	0.9999610
138 50 00	0.9999877	0.9999815	0.9999754	0.9999697	0.9999641
138 52 30	0.9999915	0.9999851	0.9999789	0.9999730	0.9999673
138 55 00	0.9999953	0.9999888	0.9999825	0.9999764	0.9999706
138 57 30	0.9999992	0.9999925	0.9999861	0.9999799	0.9999739
139 00 00	1.0000032	0.9999964	0.9999898	0.9999835	0.9999774
139 02 30	1.0000072	1.0000003	0.9999936	0.9999871	0.9999809
139 05 00	1.0000114	1.0000043	0.9999974	0.9999908	0.9999844
139 07 30	1.0000156	1.0000084	1.0000014	0.9999946	0.9999881
139 10 00	1.0000199	1.0000125	1.0000054	0.9999985	0.9999918
139 12 30	1.0000242	1.0000167	1.0000095	1.0000024	0.9999956
139 15 00	1.0000287	1.0000210	1.0000136	1.0000065	0.9999995
139 17 30	1.0000332	1.0000254	1.0000179	1.0000106	1.0000035
139 20 00	1.0000378	1.0000299	1.0000222	1.0000147	1.0000075
139 22 30	1.0000425	1.0000344	1.0000266	1.0000190	1.0000116
139 25 00	1.0000472	1.0000390	1.0000310	1.0000233	1.0000158
139 27 30	1.0000520	1.0000437	1.0000356	1.0000277	1.0000200
139 30 00	1.0000569	1.0000484	1.0000402	1.0000321	1.0000244

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 20 00	59 22 30	59 25 00	59 27 30	59 30 00
134 00 00	- 0 15 41.6	- 0 15 39.0	- 0 15 36.3	- 0 15 33.5	- 0 15 30.7
134 02 30	- 0 17 49.7	- 0 17 47.0	- 0 17 44.4	- 0 17 41.6	- 0 17 38.8
134 05 00	- 0 19 57.7	- 0 19 55.1	- 0 19 52.5	- 0 19 49.8	- 0 19 47.0
134 07 30	- 0 22 05.7	- 0 22 03.2	- 0 22 00.6	- 0 21 57.9	- 0 21 55.2
134 10 00	- 0 24 13.8	- 0 24 11.2	- 0 24 08.7	- 0 24 06.1	- 0 24 03.4
134 12 30	- 0 26 21.8	- 0 26 19.3	- 0 26 16.8	- 0 26 14.2	- 0 26 11.6
134 15 00	- 0 28 29.9	- 0 28 27.5	- 0 28 25.0	- 0 28 22.4	- 0 28 19.8
134 17 30	- 0 30 38.0	- 0 30 35.6	- 0 30 33.1	- 0 30 30.6	- 0 30 28.1
134 20 00	- 0 32 46.1	- 0 32 43.7	- 0 32 41.3	- 0 32 38.8	- 0 32 36.3
134 22 30	- 0 34 54.2	- 0 34 51.9	- 0 34 49.5	- 0 34 47.0	- 0 34 44.6
134 25 00	- 0 37 02.3	- 0 37 00.0	- 0 36 57.7	- 0 36 55.3	- 0 36 52.8
134 27 30	- 0 39 10.5	- 0 39 08.2	- 0 39 05.9	- 0 39 03.5	- 0 39 01.1
134 30 00	- 0 41 18.6	- 0 41 16.4	- 0 41 14.1	- 0 41 11.8	- 0 41 09.4
134 32 30	- 0 43 26.8	- 0 43 24.6	- 0 43 22.4	- 0 43 20.1	- 0 43 17.7
134 35 00	- 0 45 35.0	- 0 45 32.8	- 0 45 30.6	- 0 45 28.4	- 0 45 26.0
134 37 30	- 0 47 43.2	- 0 47 41.0	- 0 47 38.9	- 0 47 36.7	- 0 47 34.4
134 40 00	- 0 49 51.4	- 0 49 49.3	- 0 49 47.2	- 0 49 45.0	- 0 49 42.7
134 42 30	- 0 51 59.6	- 0 51 57.5	- 0 51 55.4	- 0 51 53.3	- 0 51 51.1
134 45 00	- 0 54 07.8	- 0 54 05.8	- 0 54 03.7	- 0 54 01.6	- 0 53 59.5
134 47 30	- 0 56 16.1	- 0 56 14.1	- 0 56 12.1	- 0 56 10.0	- 0 56 07.9
134 50 00	- 0 58 24.3	- 0 58 22.4	- 0 58 20.4	- 0 58 18.3	- 0 58 16.3
134 52 30	- 1 00 32.6	- 1 00 30.7	- 1 00 28.7	- 1 00 26.7	- 1 00 24.7
134 55 00	- 1 02 40.9	- 1 02 39.0	- 1 02 37.1	- 1 02 35.1	- 1 02 33.1
134 57 30	- 1 04 49.2	- 1 04 47.3	- 1 04 45.5	- 1 04 43.5	- 1 04 41.5
135 00 00	- 1 06 57.5	- 1 06 55.7	- 1 06 53.8	- 1 06 51.9	- 1 06 50.0
135 02 30	- 1 09 05.8	- 1 09 04.0	- 1 09 02.2	- 1 09 00.4	- 1 08 58.4
135 05 00	- 1 11 14.1	- 1 11 12.4	- 1 11 10.6	- 1 11 08.8	- 1 11 06.9
135 07 30	- 1 13 22.5	- 1 13 20.8	- 1 13 19.1	- 1 13 17.3	- 1 13 15.4
135 10 00	- 1 15 30.9	- 1 15 29.2	- 1 15 27.5	- 1 15 25.7	- 1 15 23.9
135 12 30	- 1 17 39.2	- 1 17 37.6	- 1 17 35.9	- 1 17 34.2	- 1 17 32.4
135 15 00	- 1 19 47.6	- 1 19 46.0	- 1 19 44.4	- 1 19 42.7	- 1 19 41.0
135 17 30	- 1 21 56.0	- 1 21 54.5	- 1 21 52.9	- 1 21 51.2	- 1 21 49.5
135 20 00	- 1 24 04.4	- 1 24 02.9	- 1 24 01.4	- 1 23 59.7	- 1 23 58.1
135 22 30	- 1 26 12.9	- 1 26 11.4	- 1 26 09.9	- 1 26 08.3	- 1 26 06.6
135 25 00	- 1 28 21.3	- 1 28 19.9	- 1 28 18.4	- 1 28 16.8	- 1 28 15.2
135 27 30	- 1 30 29.8	- 1 30 28.4	- 1 30 26.9	- 1 30 25.4	- 1 30 23.8
135 30 00	- 1 32 38.2	- 1 32 36.9	- 1 32 35.4	- 1 32 34.0	- 1 32 32.4
135 32 30	- 1 34 46.7	- 1 34 45.4	- 1 34 44.0	- 1 34 42.6	- 1 34 41.1
135 35 00	- 1 36 55.2	- 1 36 53.9	- 1 36 52.6	- 1 36 51.2	- 1 36 49.7
135 37 30	- 1 39 03.7	- 1 39 02.5	- 1 39 01.1	- 1 38 59.8	- 1 38 58.3
135 40 00	- 1 41 12.3	- 1 41 11.0	- 1 41 09.7	- 1 41 08.4	- 1 41 07.0
135 42 30	- 1 43 20.8	- 1 43 19.6	- 1 43 18.3	- 1 43 17.0	- 1 43 15.7
135 45 00	- 1 45 29.4	- 1 45 28.2	- 1 45 27.0	- 1 45 25.7	- 1 45 24.4
135 47 30	- 1 47 37.9	- 1 47 36.8	- 1 47 35.6	- 1 47 34.4	- 1 47 33.1
135 50 00	- 1 49 46.5	- 1 49 45.4	- 1 49 44.3	- 1 49 43.0	- 1 49 41.8
135 52 30	- 1 51 55.1	- 1 51 54.0	- 1 51 52.9	- 1 51 51.7	- 1 51 50.5
135 55 00	- 1 54 03.7	- 1 54 02.7	- 1 54 01.6	- 1 54 00.5	- 1 53 59.3
135 57 30	- 1 56 12.3	- 1 56 11.3	- 1 56 10.3	- 1 56 09.2	- 1 56 08.0
136 00 00	- 1 58 20.9	- 1 58 20.0	- 1 58 19.0	- 1 58 17.9	- 1 58 16.8
136 02 30	- 2 00 29.6	- 2 00 28.7	- 2 00 27.7	- 2 00 26.7	- 2 00 25.6
136 05 00	- 2 02 38.3	- 2 02 37.4	- 2 02 36.4	- 2 02 35.4	- 2 02 34.4
136 07 30	- 2 04 46.9	- 2 04 46.1	- 2 04 45.2	- 2 04 44.2	- 2 04 43.2
136 10 00	- 2 06 55.6	- 2 06 54.8	- 2 06 53.9	- 2 06 53.0	- 2 06 52.0
136 12 30	- 2 09 04.3	- 2 09 03.5	- 2 09 02.7	- 2 09 01.8	- 2 09 00.8
136 15 00	- 2 11 13.0	- 2 11 12.3	- 2 11 11.5	- 2 11 10.6	- 2 11 09.7
136 17 30	- 2 13 21.8	- 2 13 21.0	- 2 13 20.3	- 2 13 19.4	- 2 13 18.6
136 20 00	- 2 15 30.5	- 2 15 29.8	- 2 15 29.1	- 2 15 28.3	- 2 15 27.4
136 22 30	- 2 17 39.3	- 2 17 38.6	- 2 17 37.9	- 2 17 37.1	- 2 17 36.3
136 25 00	- 2 19 48.0	- 2 19 47.4	- 2 19 46.7	- 2 19 46.0	- 2 19 45.2
136 27 30	- 2 21 56.8	- 2 21 56.2	- 2 21 55.6	- 2 21 54.9	- 2 21 54.1
136 30 00	- 2 24 05.6	- 2 24 05.0	- 2 24 04.4	- 2 24 03.8	- 2 24 03.1

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 20 00	59 22 30	59 25 00	59 27 30	59 30 00
134 00 00	1.0001427	1.0001525	1.0001624	1.0001726	1.0001829
134 02 30	1.0001362	1.0001459	1.0001557	1.0001657	1.0001759
134 05 00	1.0001298	1.0001394	1.0001491	1.0001590	1.0001691
134 07 30	1.0001235	1.0001329	1.0001425	1.0001523	1.0001623
134 10 00	1.0001173	1.0001266	1.0001361	1.0001457	1.0001556
134 12 30	1.0001112	1.0001204	1.0001297	1.0001392	1.0001490
134 15 00	1.0001052	1.0001142	1.0001234	1.0001328	1.0001425
134 17 30	1.0000992	1.0001081	1.0001172	1.0001265	1.0001360
134 20 00	1.0000934	1.0001022	1.0001112	1.0001203	1.0001297
134 22 30	1.0000876	1.0000963	1.0001051	1.0001142	1.0001234
134 25 00	1.0000820	1.0000905	1.0000992	1.0001082	1.0001173
134 27 30	1.0000764	1.0000848	1.0000934	1.0001022	1.0001112
134 30 00	1.0000709	1.0000792	1.0000877	1.0000963	1.0001052
134 32 30	1.0000655	1.0000737	1.0000820	1.0000906	1.0000993
134 35 00	1.0000602	1.0000682	1.0000765	1.0000849	1.0000935
134 37 30	1.0000550	1.0000629	1.0000710	1.0000793	1.0000878
134 40 00	1.0000498	1.0000576	1.0000656	1.0000738	1.0000822
134 42 30	1.0000448	1.0000525	1.0000603	1.0000684	1.0000766
134 45 00	1.0000398	1.0000474	1.0000551	1.0000630	1.0000712
134 47 30	1.0000350	1.0000424	1.0000500	1.0000578	1.0000658
134 50 00	1.0000302	1.0000375	1.0000450	1.0000527	1.0000605
134 52 30	1.0000255	1.0000327	1.0000400	1.0000476	1.0000554
134 55 00	1.0000209	1.0000279	1.0000352	1.0000426	1.0000503
134 57 30	1.0000164	1.0000233	1.0000304	1.0000377	1.0000452
135 00 00	1.0000120	1.0000187	1.0000257	1.0000329	1.0000403
135 02 30	1.0000076	1.0000143	1.0000211	1.0000282	1.0000355
135 05 00	1.0000034	1.0000099	1.0000166	1.0000236	1.0000307
135 07 30	0.9999992	1.0000056	1.0000122	1.0000190	1.0000261
135 10 00	0.9999951	1.0000014	1.0000079	1.0000146	1.0000215
135 12 30	0.9999911	0.9999973	1.0000037	1.0000102	1.0000170
135 15 00	0.9999872	0.9999933	0.9999995	1.0000059	1.0000126
135 17 30	0.9999834	0.9999893	0.9999954	1.0000017	1.0000083
135 20 00	0.9999797	0.9999855	0.9999915	0.9999976	1.0000040
135 22 30	0.9999761	0.9999817	0.9999876	0.9999936	0.9999999
135 25 00	0.9999725	0.9999780	0.9999838	0.9999897	0.9999958
135 27 30	0.9999690	0.9999744	0.9999800	0.9999858	0.9999919
135 30 00	0.9999656	0.9999709	0.9999764	0.9999821	0.9999880
135 32 30	0.9999624	0.9999675	0.9999729	0.9999784	0.9999842
135 35 00	0.9999591	0.9999642	0.9999694	0.9999748	0.9999805
135 37 30	0.9999560	0.9999609	0.9999660	0.9999713	0.9999768
135 40 00	0.9999530	0.9999578	0.9999627	0.9999679	0.9999733
135 42 30	0.9999500	0.9999547	0.9999595	0.9999646	0.9999698
135 45 00	0.9999472	0.9999517	0.9999564	0.9999613	0.9999664
135 47 30	0.9999444	0.9999488	0.9999534	0.9999582	0.9999632
135 50 00	0.9999417	0.9999460	0.9999504	0.9999551	0.9999599
135 52 30	0.9999391	0.9999432	0.9999475	0.9999521	0.9999568
135 55 00	0.9999366	0.9999406	0.9999448	0.9999492	0.9999538
135 57 30	0.9999341	0.9999380	0.9999421	0.9999464	0.9999508
136 00 00	0.9999318	0.9999355	0.9999395	0.9999436	0.9999480
136 02 30	0.9999295	0.9999331	0.9999369	0.9999410	0.9999452
136 05 00	0.9999273	0.9999308	0.9999345	0.9999384	0.9999425
136 07 30	0.9999252	0.9999286	0.9999321	0.9999359	0.9999399
136 10 00	0.9999232	0.9999264	0.9999299	0.9999335	0.9999374
136 12 30	0.9999213	0.9999244	0.9999277	0.9999312	0.9999349
136 15 00	0.9999194	0.9999224	0.9999256	0.9999290	0.9999325
136 17 30	0.9999177	0.9999205	0.9999236	0.9999268	0.9999303
136 20 00	0.9999160	0.9999187	0.9999216	0.9999247	0.9999281
136 22 30	0.9999144	0.9999170	0.9999198	0.9999228	0.9999260
136 25 00	0.9999129	0.9999153	0.9999180	0.9999209	0.9999239
136 27 30	0.9999115	0.9999138	0.9999163	0.9999190	0.9999220
136 30 00	0.9999101	0.9999123	0.9999147	0.9999173	0.9999201

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 20 00	59 22 30	59 25 00	59 27 30	59 30 00
136 30 00	- 2 24 05.6	- 2 24 05.0	- 2 24 04.4	- 2 24 03.8	- 2 24 03.1
136 32 30	- 2 26 14.4	- 2 26 13.9	- 2 26 13.3	- 2 26 12.7	- 2 26 12.0
136 35 00	- 2 28 23.2	- 2 28 22.8	- 2 28 22.2	- 2 28 21.6	- 2 28 21.0
136 37 30	- 2 30 32.1	- 2 30 31.6	- 2 30 31.1	- 2 30 30.6	- 2 30 29.9
136 40 00	- 2 32 40.9	- 2 32 40.5	- 2 32 40.0	- 2 32 39.5	- 2 32 38.9
136 42 30	- 2 34 49.8	- 2 34 49.4	- 2 34 49.0	- 2 34 48.5	- 2 34 47.9
136 45 00	- 2 36 58.7	- 2 36 58.3	- 2 36 57.9	- 2 36 57.5	- 2 36 56.9
136 47 30	- 2 39 07.6	- 2 39 07.2	- 2 39 06.9	- 2 39 06.4	- 2 39 06.0
136 50 00	- 2 41 16.5	- 2 41 16.2	- 2 41 15.8	- 2 41 15.5	- 2 41 15.0
136 52 30	- 2 43 25.4	- 2 43 25.1	- 2 43 24.8	- 2 43 24.5	- 2 43 24.1
136 55 00	- 2 45 34.3	- 2 45 34.1	- 2 45 33.8	- 2 45 33.5	- 2 45 33.1
136 57 30	- 2 47 43.3	- 2 47 43.1	- 2 47 42.9	- 2 47 42.6	- 2 47 42.2
137 00 00	- 2 49 52.2	- 2 49 52.1	- 2 49 51.9	- 2 49 51.6	- 2 49 51.3
137 02 30	- 2 52 01.2	- 2 52 01.1	- 2 52 00.9	- 2 52 00.7	- 2 52 00.4
137 05 00	- 2 54 10.2	- 2 54 10.1	- 2 54 10.0	- 2 54 09.8	- 2 54 09.5
137 07 30	- 2 56 19.2	- 2 56 19.2	- 2 56 19.1	- 2 56 18.9	- 2 56 18.7
137 10 00	- 2 58 28.2	- 2 58 28.2	- 2 58 28.1	- 2 58 28.0	- 2 58 27.8
137 12 30	- 3 00 37.3	- 3 00 37.3	- 3 00 37.2	- 3 00 37.1	- 3 00 37.0
137 15 00	- 3 02 46.3	- 3 02 46.4	- 3 02 46.3	- 3 02 46.3	- 3 02 46.2
137 17 30	- 3 04 55.4	- 3 04 55.4	- 3 04 55.5	- 3 04 55.4	- 3 04 55.4
137 20 00	- 3 07 04.4	- 3 07 04.6	- 3 07 04.6	- 3 07 04.6	- 3 07 04.6
137 22 30	- 3 09 13.5	- 3 09 13.7	- 3 09 13.8	- 3 09 13.8	- 3 09 13.8
137 25 00	- 3 11 22.6	- 3 11 22.8	- 3 11 22.9	- 3 11 23.0	- 3 11 23.0
137 27 30	- 3 13 31.8	- 3 13 32.0	- 3 13 32.1	- 3 13 32.2	- 3 13 32.3
137 30 00	- 3 15 40.9	- 3 15 41.1	- 3 15 41.3	- 3 15 41.4	- 3 15 41.5
137 32 30	- 3 17 50.0	- 3 17 50.3	- 3 17 50.5	- 3 17 50.7	- 3 17 50.8
137 35 00	- 3 19 59.2	- 3 19 59.5	- 3 19 59.7	- 3 19 59.9	- 3 20 00.1
137 37 30	- 3 22 08.4	- 3 22 08.7	- 3 22 09.0	- 3 22 09.2	- 3 22 09.4
137 40 00	- 3 24 17.5	- 3 24 17.9	- 3 24 18.2	- 3 24 18.5	- 3 24 18.7
137 42 30	- 3 26 26.8	- 3 26 27.2	- 3 26 27.5	- 3 26 27.8	- 3 26 28.0
137 45 00	- 3 28 36.0	- 3 28 36.4	- 3 28 36.8	- 3 28 37.1	- 3 28 37.4
137 47 30	- 3 30 45.2	- 3 30 45.7	- 3 30 46.1	- 3 30 46.4	- 3 30 46.7
137 50 00	- 3 32 54.4	- 3 32 54.9	- 3 32 55.4	- 3 32 55.8	- 3 32 56.1
137 52 30	- 3 35 03.7	- 3 35 04.2	- 3 35 04.7	- 3 35 05.1	- 3 35 05.5
137 55 00	- 3 37 13.0	- 3 37 13.5	- 3 37 14.0	- 3 37 14.5	- 3 37 14.9
137 57 30	- 3 39 22.3	- 3 39 22.9	- 3 39 23.4	- 3 39 23.9	- 3 39 24.3
138 00 00	- 3 41 31.6	- 3 41 32.2	- 3 41 32.8	- 3 41 33.3	- 3 41 33.7
138 02 30	- 3 43 40.9	- 3 43 41.5	- 3 43 42.1	- 3 43 42.7	- 3 43 43.2
138 05 00	- 3 45 50.2	- 3 45 50.9	- 3 45 51.5	- 3 45 52.1	- 3 45 52.6
138 07 30	- 3 47 59.5	- 3 48 00.3	- 3 48 00.9	- 3 48 01.5	- 3 48 02.1
138 10 00	- 3 50 08.9	- 3 50 09.7	- 3 50 10.4	- 3 50 11.0	- 3 50 11.6
138 12 30	- 3 52 18.3	- 3 52 19.1	- 3 52 19.8	- 3 52 20.5	- 3 52 21.1
138 15 00	- 3 54 27.7	- 3 54 28.5	- 3 54 29.2	- 3 54 29.9	- 3 54 30.6
138 17 30	- 3 56 37.1	- 3 56 37.9	- 3 56 38.7	- 3 56 39.4	- 3 56 40.1
138 20 00	- 3 58 46.5	- 3 58 47.4	- 3 58 48.2	- 3 58 49.0	- 3 58 49.7
138 22 30	- 4 00 55.9	- 4 00 56.8	- 4 00 57.7	- 4 00 58.5	- 4 00 59.2
130 25 00	- 4 03 05.4	- 4 03 06.3	- 4 03 07.2	- 4 03 08.0	- 4 03 08.8
138 27 30	- 4 05 14.8	- 4 05 15.8	- 4 05 16.7	- 4 05 17.6	- 4 05 18.4
138 30 00	- 4 07 24.3	- 4 07 25.3	- 4 07 26.2	- 4 07 27.1	- 4 07 28.0
138 32 30	- 4 09 33.8	- 4 09 34.8	- 4 09 35.8	- 4 09 36.7	- 4 09 37.6
138 35 00	- 4 11 43.3	- 4 11 44.3	- 4 11 45.4	- 4 11 46.3	- 4 11 47.2
138 37 30	- 4 13 52.8	- 4 13 53.9	- 4 13 54.9	- 4 13 55.9	- 4 13 56.9
138 40 00	- 4 16 02.3	- 4 16 03.5	- 4 16 04.5	- 4 16 05.5	- 4 16 06.5
138 42 30	- 4 18 11.9	- 4 18 13.0	- 4 18 14.1	- 4 18 15.2	- 4 18 16.2
138 45 00	- 4 20 21.4	- 4 20 22.6	- 4 20 23.8	- 4 20 24.8	- 4 20 25.9
138 47 30	- 4 22 31.0	- 4 22 32.2	- 4 22 33.4	- 4 22 34.5	- 4 22 35.6
138 50 00	- 4 24 40.6	- 4 24 41.8	- 4 24 43.0	- 4 24 44.2	- 4 24 45.3
138 52 30	- 4 26 50.2	- 4 26 51.5	- 4 26 52.7	- 4 26 53.9	- 4 26 55.0
138 55 00	- 4 28 59.8	- 4 29 01.1	- 4 29 02.4	- 4 29 03.6	- 4 29 04.7
138 57 30	- 4 31 09.4	- 4 31 10.8	- 4 31 12.1	- 4 31 13.3	- 4 31 14.5
139 00 00	- 4 33 19.1	- 4 33 20.5	- 4 33 21.8	- 4 33 23.0	- 4 33 24.3

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 20 00	59 22 30	59 25 00	59 27 30	59 30 00
136 30 00	0.9999101	0.9999123	0.9999147	0.9999173	0.9999201
136 32 30	0.9999089	0.9999109	0.9999132	0.9999156	0.9999183
136 35 00	0.9999077	0.9999096	0.9999117	0.9999141	0.9999166
136 37 30	0.9999066	0.9999084	0.9999104	0.9999126	0.9999150
136 40 00	0.9999056	0.9999072	0.9999091	0.9999112	0.9999135
136 42 30	0.9999046	0.9999062	0.9999079	0.9999099	0.9999120
136 45 00	0.9999038	0.9999052	0.9999068	0.9999086	0.9999107
136 47 30	0.9999030	0.9999043	0.9999058	0.9999075	0.9999094
136 50 00	0.9999024	0.9999035	0.9999048	0.9999064	0.9999082
136 52 30	0.9999018	0.9999028	0.9999040	0.9999054	0.9999071
136 55 00	0.9999012	0.9999021	0.9999032	0.9999045	0.9999060
136 57 30	0.9999008	0.9999015	0.9999025	0.9999037	0.9999051
137 00 00	0.9999005	0.9999011	0.9999019	0.9999029	0.9999042
137 02 30	0.9999002	0.9999007	0.9999014	0.9999023	0.9999034
137 05 00	0.9999000	0.9999003	0.9999009	0.9999017	0.9999027
137 07 30	0.9998999	0.9999001	0.9999005	0.9999012	0.9999020
137 10 00	0.9998999	0.9998999	0.9999002	0.9999007	0.9999015
137 12 30	0.9998999	0.9998999	0.9999000	0.9999004	0.9999010
137 15 00	0.9999001	0.9998999	0.9998999	0.9999001	0.9999006
137 17 30	0.9999003	0.9999000	0.9998998	0.9999000	0.9999003
137 20 00	0.9999006	0.9999001	0.9998999	0.9998999	0.9999001
137 22 30	0.9999009	0.9999004	0.9999000	0.9998998	0.9998999
137 25 00	0.9999014	0.9999007	0.9999002	0.9998999	0.9998998
137 27 30	0.9999019	0.9999011	0.9999005	0.9999000	0.9998998
137 30 00	0.9999026	0.9999016	0.9999008	0.9999003	0.9998999
137 32 30	0.9999033	0.9999021	0.9999012	0.9999006	0.9999001
137 35 00	0.9999041	0.9999028	0.9999018	0.9999009	0.9999003
137 37 30	0.9999049	0.9999035	0.9999024	0.9999014	0.9999007
137 40 00	0.9999059	0.9999043	0.9999030	0.9999019	0.9999011
137 42 30	0.9999069	0.9999052	0.9999038	0.9999026	0.9999016
137 45 00	0.9999080	0.9999062	0.9999046	0.9999033	0.9999021
137 47 30	0.9999092	0.9999072	0.9999055	0.9999040	0.9999028
137 50 00	0.9999104	0.9999084	0.9999065	0.9999049	0.9999035
137 52 30	0.9999118	0.9999096	0.9999076	0.9999058	0.9999043
137 55 00	0.9999132	0.9999108	0.9999087	0.9999068	0.9999052
137 57 30	0.9999147	0.9999122	0.9999100	0.9999079	0.9999061
138 00 00	0.9999162	0.9999136	0.9999113	0.9999091	0.9999072
138 02 30	0.9999179	0.9999152	0.9999126	0.9999104	0.9999083
138 05 00	0.9999196	0.9999168	0.9999141	0.9999117	0.9999095
138 07 30	0.9999214	0.9999184	0.9999156	0.9999131	0.9999108
138 10 00	0.9999233	0.9999202	0.9999173	0.9999146	0.9999121
138 12 30	0.9999253	0.9999220	0.9999190	0.9999161	0.9999135
138 15 00	0.9999273	0.9999239	0.9999207	0.9999178	0.9999150
138 17 30	0.9999295	0.9999259	0.9999226	0.9999195	0.9999166
138 20 00	0.9999317	0.9999280	0.9999245	0.9999213	0.9999183
138 22 30	0.9999339	0.9999301	0.9999265	0.9999232	0.9999200
138 25 00	0.9999363	0.9999323	0.9999286	0.9999251	0.9999218
138 27 30	0.9999387	0.9999346	0.9999308	0.9999271	0.9999237
138 30 00	0.9999412	0.9999370	0.9999330	0.9999292	0.9999257
138 32 30	0.9999438	0.9999395	0.9999353	0.9999314	0.9999277
138 35 00	0.9999465	0.9999420	0.9999377	0.9999337	0.9999298
138 37 30	0.9999492	0.9999446	0.9999402	0.9999360	0.9999320
138 40 00	0.9999521	0.9999473	0.9999427	0.9999384	0.9999343
138 42 30	0.9999550	0.9999500	0.9999454	0.9999409	0.9999367
138 45 00	0.9999579	0.9999529	0.9999481	0.9999435	0.9999391
138 47 30	0.9999610	0.9999558	0.9999508	0.9999461	0.9999416
138 50 00	0.9999641	0.9999588	0.9999537	0.9999488	0.9999442
138 52 30	0.9999673	0.9999618	0.9999566	0.9999516	0.9999468
138 55 00	0.9999706	0.9999650	0.9999596	0.9999545	0.9999495
138 57 30	0.9999739	0.9999682	0.9999627	0.9999574	0.9999524
139 00 00	0.9999774	0.9999715	0.9999658	0.9999604	0.9999552

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 20 00	59 22 30	59 25 00	59 27 30	59 30 00
139 00 00	- 4 33 19.1	- 4 33 20.5	- 4 33 21.8	- 4 33 23.0	- 4 33 24.3
139 02 30	- 4 35 28.8	- 4 35 30.2	- 4 35 31.5	- 4 35 32.8	- 4 35 34.0
139 05 00	- 4 37 38.4	- 4 37 39.9	- 4 37 41.2	- 4 37 42.6	- 4 37 43.8
139 07 30	- 4 39 48.1	- 4 39 49.6	- 4 39 51.0	- 4 39 52.4	- 4 39 53.7
139 10 00	- 4 41 57.8	- 4 41 59.3	- 4 42 00.8	- 4 42 02.1	- 4 42 03.5
139 12 30	- 4 44 07.5	- 4 44 09.1	- 4 44 10.5	- 4 44 12.0	- 4 44 13.3
139 15 00	- 4 46 17.3	- 4 46 18.8	- 4 46 20.3	- 4 46 21.8	- 4 46 23.2
139 17 30	- 4 48 27.0	- 4 48 28.6	- 4 48 30.1	- 4 48 31.6	- 4 48 33.0
139 20 00	- 4 50 36.8	- 4 50 38.4	- 4 50 40.0	- 4 50 41.5	- 4 50 42.9
139 22 30	- 4 52 46.6	- 4 52 48.2	- 4 52 49.8	- 4 52 51.3	- 4 52 52.8
139 25 00	- 4 54 56.4	- 4 54 58.0	- 4 54 59.7	- 4 55 01.2	- 4 55 02.7
139 27 30	- 4 57 06.2	- 4 57 07.9	- 4 57 09.5	- 4 57 11.1	- 4 57 12.7
139 30 00	- 4 59 16.0	- 4 59 17.7	- 4 59 19.4	- 4 59 21.0	- 4 59 22.6
139 32 30	- 5 01 25.8	- 5 01 27.6	- 5 01 29.3	- 5 01 31.0	- 5 01 32.6
139 35 00	- 5 03 35.7	- 5 03 37.5	- 5 03 39.2	- 5 03 40.9	- 5 03 42.5
139 37 30	- 5 05 45.6	- 5 05 47.4	- 5 05 49.1	- 5 05 50.9	- 5 05 52.5
139 40 00	- 5 07 55.4	- 5 07 57.3	- 5 07 59.1	- 5 08 00.8	- 5 08 02.5
139 42 30	- 5 10 05.3	- 5 10 07.2	- 5 10 09.0	- 5 10 10.8	- 5 10 12.5
139 45 00	- 5 12 15.2	- 5 12 17.2	- 5 12 19.0	- 5 12 20.8	- 5 12 22.6
139 47 30	- 5 14 25.2	- 5 14 27.1	- 5 14 29.0	- 5 14 30.8	- 5 14 32.6
139 50 00	- 5 16 35.1	- 5 16 37.1	- 5 16 39.0	- 5 16 40.9	- 5 16 42.7
139 52 30	- 5 18 45.1	- 5 18 47.1	- 5 18 49.0	- 5 18 50.9	- 5 18 52.7
139 55 00	- 5 20 55.0	- 5 20 57.1	- 5 20 59.0	- 5 21 01.0	- 5 21 02.8
139 57 30	- 5 23 05.0	- 5 23 07.1	- 5 23 09.1	- 5 23 11.0	- 5 23 12.9
140 00 00	- 5 25 15.0	- 5 25 17.1	- 5 25 19.1	- 5 25 21.1	- 5 25 23.0
140 02 30	- 5 27 25.0	- 5 27 27.1	- 5 27 29.2	- 5 27 31.2	- 5 27 33.2
140 05 00	- 5 29 35.1	- 5 29 37.2	- 5 29 39.3	- 5 29 41.3	- 5 29 43.3
140 07 30	- 5 31 45.1	- 5 31 47.3	- 5 31 49.4	- 5 31 51.5	- 5 31 53.5
140 10 00	- 5 33 55.2	- 5 33 57.4	- 5 33 59.5	- 5 34 01.6	- 5 34 03.7
140 12 30	- 5 36 05.2	- 5 36 07.5	- 5 36 09.7	- 5 36 11.8	- 5 36 13.9
140 15 00	- 5 38 15.3	- 5 38 17.6	- 5 38 19.8	- 5 38 22.0	- 5 38 24.1
140 17 30	- 5 40 25.4	- 5 40 27.7	- 5 40 30.0	- 5 40 32.1	- 5 40 34.3
140 20 00	- 5 42 35.5	- 5 42 37.9	- 5 42 40.1	- 5 42 42.4	- 5 42 44.5
140 22 30	- 5 44 45.7	- 5 44 48.0	- 5 44 50.3	- 5 44 52.6	- 5 44 54.8
140 25 00	- 5 46 55.8	- 5 46 58.2	- 5 47 00.5	- 5 47 02.8	- 5 47 05.0
140 27 30	- 5 49 06.0	- 5 49 08.4	- 5 49 10.8	- 5 49 13.1	- 5 49 15.3
140 30 00	- 5 51 16.2	- 5 51 18.6	- 5 51 21.0	- 5 51 23.3	- 5 51 25.6
140 32 30	- 5 53 26.4	- 5 53 28.8	- 5 53 31.2	- 5 53 33.6	- 5 53 35.9
140 35 00	- 5 55 36.6	- 5 55 39.1	- 5 55 41.5	- 5 55 43.9	- 5 55 46.2
140 37 30	- 5 57 46.8	- 5 57 49.3	- 5 57 51.8	- 5 57 54.2	- 5 57 56.6
140 40 00	- 5 59 57.0	- 5 59 59.6	- 6 00 02.1	- 6 00 04.5	- 6 00 06.9
140 42 30	- 6 02 07.3	- 6 02 09.9	- 6 02 12.4	- 6 02 14.9	- 6 02 17.3
140 45 00	- 6 04 17.6	- 6 04 20.2	- 6 04 22.7	- 6 04 25.2	- 6 04 27.7
140 47 30	- 6 06 27.8	- 6 06 30.5	- 6 06 33.1	- 6 06 35.6	- 6 06 38.1
140 50 00	- 6 08 38.1	- 6 08 40.8	- 6 08 43.4	- 6 08 46.0	- 6 08 48.5
140 52 30	- 6 10 48.5	- 6 10 51.1	- 6 10 53.8	- 6 10 56.4	- 6 10 58.9
140 55 00	- 6 12 58.8	- 6 13 01.5	- 6 13 04.2	- 6 13 06.8	- 6 13 09.3
140 57 30	- 6 15 09.1	- 6 15 11.9	- 6 15 14.6	- 6 15 17.2	- 6 15 19.8
141 00 00	- 6 17 19.5	- 6 17 22.3	- 6 17 25.0	- 6 17 27.7	- 6 17 30.3
141 02 30	- 6 19 29.9	- 6 19 32.7	- 6 19 35.4	- 6 19 38.1	- 6 19 40.7
141 05 00	- 6 21 40.2	- 6 21 43.1	- 6 21 45.9	- 6 21 48.6	- 6 21 51.3
141 07 30	- 6 23 50.7	- 6 23 53.5	- 6 23 56.3	- 6 23 59.1	- 6 24 01.8
141 10 00	- 6 26 01.1	- 6 26 04.0	- 6 26 06.8	- 6 26 09.6	- 6 26 12.3
141 12 30	- 6 28 11.5	- 6 28 14.4	- 6 28 17.3	- 6 28 20.1	- 6 28 22.8
141 15 00	- 6 30 22.0	- 6 30 24.9	- 6 30 27.8	- 6 30 30.6	- 6 30 33.4
141 17 30	- 6 32 32.4	- 6 32 35.4	- 6 32 38.3	- 6 32 41.2	- 6 32 44.0
141 20 00	- 6 34 42.9	- 6 34 45.9	- 6 34 48.8	- 6 34 51.7	- 6 34 54.6
141 22 30	- 6 36 53.4	- 6 36 56.4	- 6 36 59.4	- 6 37 02.3	- 6 37 05.2
141 25 00	- 6 39 03.9	- 6 39 07.0	- 6 39 10.0	- 6 39 12.9	- 6 39 15.8
141 27 30	- 6 41 14.4	- 6 41 17.5	- 6 41 20.5	- 6 41 23.5	- 6 41 26.4
141 30 00	- 6 43 25.0	- 6 43 28.1	- 6 43 31.1	- 6 43 34.1	- 6 43 37.1

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 20 00	59 22 30	59 25 00	59 27 30	59 30 00
139 00 00	0.9999774	0.9999715	0.9999658	0.9999604	0.9999552
139 02 30	0.9999809	0.9999748	0.9999691	0.9999635	0.9999582
139 05 00	0.9999844	0.9999783	0.9999724	0.9999667	0.9999612
139 07 30	0.9999881	0.9999818	0.9999757	0.9999699	0.9999643
139 10 00	0.9999918	0.9999854	0.9999792	0.9999732	0.9999675
139 12 30	0.9999956	0.9999891	0.9999827	0.9999766	0.9999708
139 15 00	0.9999995	0.9999928	0.9999863	0.9999801	0.9999741
139 17 30	1.0000035	0.9999966	0.9999900	0.9999836	0.9999775
139 20 00	1.0000075	1.0000005	0.9999938	0.9999872	0.9999810
139 22 30	1.0000116	1.0000045	0.9999976	0.9999909	0.9999845
139 25 00	1.0000158	1.0000085	1.0000015	0.9999947	0.9999881
139 27 30	1.0000200	1.0000126	1.0000055	0.9999985	0.9999918
139 30 00	1.0000244	1.0000168	1.0000095	1.0000024	0.9999956
139 32 30	1.0000288	1.0000211	1.0000136	1.0000064	0.9999994
139 35 00	1.0000332	1.0000254	1.0000178	1.0000105	1.0000034
139 37 30	1.0000378	1.0000298	1.0000221	1.0000146	1.0000074
139 40 00	1.0000424	1.0000343	1.0000265	1.0000188	1.0000114
139 42 30	1.0000471	1.0000389	1.0000309	1.0000231	1.0000156
139 45 00	1.0000519	1.0000435	1.0000354	1.0000274	1.0000198
139 47 30	1.0000567	1.0000482	1.0000399	1.0000319	1.0000241
139 50 00	1.0000616	1.0000530	1.0000446	1.0000364	1.0000284
139 52 30	1.0000666	1.0000578	1.0000493	1.0000409	1.0000329
139 55 00	1.0000717	1.0000628	1.0000540	1.0000456	1.0000374
139 57 30	1.0000768	1.0000677	1.0000589	1.0000503	1.0000419
140 00 00	1.0000820	1.0000728	1.0000638	1.0000551	1.0000466
140 02 30	1.0000873	1.0000780	1.0000688	1.0000599	1.0000513
140 05 00	1.0000927	1.0000832	1.0000739	1.0000649	1.0000561
140 07 30	1.0000981	1.0000885	1.0000790	1.0000699	1.0000609
140 10 00	1.0001036	1.0000938	1.0000843	1.0000750	1.0000659
140 12 30	1.0001092	1.0000992	1.0000895	1.0000801	1.0000709
140 15 00	1.0001148	1.0001047	1.0000949	1.0000853	1.0000760
140 17 30	1.0001205	1.0001103	1.0001003	1.0000906	1.0000811
140 20 00	1.0001263	1.0001159	1.0001058	1.0000960	1.0000863
140 22 30	1.0001322	1.0001217	1.0001114	1.0001014	1.0000916
140 25 00	1.0001381	1.0001274	1.0001171	1.0001069	1.0000970
140 27 30	1.0001441	1.0001333	1.0001228	1.0001125	1.0001024
140 30 00	1.0001502	1.0001392	1.0001286	1.0001181	1.0001079
140 32 30	1.0001563	1.0001452	1.0001344	1.0001238	1.0001135
140 35 00	1.0001625	1.0001513	1.0001403	1.0001296	1.0001191
140 37 30	1.0001688	1.0001574	1.0001463	1.0001355	1.0001249
140 40 00	1.0001751	1.0001636	1.0001524	1.0001414	1.0001306
140 42 30	1.0001816	1.0001699	1.0001585	1.0001474	1.0001365
140 45 00	1.0001881	1.0001763	1.0001647	1.0001535	1.0001424
140 47 30	1.0001946	1.0001827	1.0001710	1.0001596	1.0001484
140 50 00	1.0002013	1.0001892	1.0001774	1.0001658	1.0001545
140 52 30	1.0002080	1.0001958	1.0001838	1.0001721	1.0001606
140 55 00	1.0002147	1.0002024	1.0001903	1.0001784	1.0001668
140 57 30	1.0002216	1.0002091	1.0001968	1.0001848	1.0001731
141 00 00	1.0002285	1.0002159	1.0002035	1.0001913	1.0001794
141 02 30	1.0002355	1.0002227	1.0002102	1.0001979	1.0001858
141 05 00	1.0002425	1.0002296	1.0002169	1.0002045	1.0001923
141 07 30	1.0002496	1.0002366	1.0002238	1.0002112	1.0001989
141 10 00	1.0002568	1.0002436	1.0002307	1.0002179	1.0002055
141 12 30	1.0002641	1.0002507	1.0002376	1.0002248	1.0002122
141 15 00	1.0002714	1.0002579	1.0002447	1.0002317	1.0002189
141 17 30	1.0002788	1.0002652	1.0002518	1.0002386	1.0002257
141 20 00	1.0002863	1.0002725	1.0002589	1.0002457	1.0002326
141 22 30	1.0002938	1.0002799	1.0002662	1.0002528	1.0002396
141 25 00	1.0003014	1.0002873	1.0002735	1.0002599	1.0002466
141 27 30	1.0003091	1.0002948	1.0002809	1.0002672	1.0002537
141 30 00	1.0003168	1.0003024	1.0002883	1.0002745	1.0002609

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 30 00	59 32 30	59 35 00	59 37 30	59 40 00
134 00 00	- 0 15 30.7	- 0 15 27.8	- 0 15 24.9	- 0 15 21.9	- 0 15 18.9
134 02 30	- 0 17 38.8	- 0 17 36.0	- 0 17 33.1	- 0 17 30.2	- 0 17 27.2
134 05 00	- 0 19 47.0	- 0 19 44.2	- 0 19 41.4	- 0 19 38.5	- 0 19 35.5
134 07 30	- 0 21 55.2	- 0 21 52.4	- 0 21 49.6	- 0 21 46.8	- 0 21 43.8
134 10 00	- 0 24 03.4	- 0 24 00.7	- 0 23 57.9	- 0 23 55.1	- 0 23 52.2
134 12 30	- 0 26 11.6	- 0 26 08.9	- 0 26 06.2	- 0 26 03.4	- 0 26 00.5
134 15 00	- 0 28 19.8	- 0 28 17.2	- 0 28 14.5	- 0 28 11.7	- 0 28 08.9
134 17 30	- 0 30 28.1	- 0 30 25.4	- 0 30 22.8	- 0 30 20.0	- 0 30 17.3
134 20 00	- 0 32 36.3	- 0 32 33.7	- 0 32 31.1	- 0 32 28.4	- 0 32 25.7
134 22 30	- 0 34 44.6	- 0 34 42.0	- 0 34 39.4	- 0 34 36.8	- 0 34 34.1
134 25 00	- 0 36 52.8	- 0 36 50.3	- 0 36 47.8	- 0 36 45.1	- 0 36 42.5
134 27 30	- 0 39 01.1	- 0 38 58.6	- 0 38 56.1	- 0 38 53.5	- 0 38 50.9
134 30 00	- 0 41 09.4	- 0 41 07.0	- 0 41 04.5	- 0 41 01.9	- 0 40 59.4
134 32 30	- 0 43 17.7	- 0 43 15.3	- 0 43 12.9	- 0 43 10.4	- 0 43 07.8
134 35 00	- 0 45 26.0	- 0 45 23.7	- 0 45 21.3	- 0 45 18.8	- 0 45 16.3
134 37 30	- 0 47 34.4	- 0 47 32.1	- 0 47 29.7	- 0 47 27.2	- 0 47 24.8
134 40 00	- 0 49 42.7	- 0 49 40.4	- 0 49 38.1	- 0 49 35.7	- 0 49 33.2
134 42 30	- 0 51 51.1	- 0 51 48.8	- 0 51 46.5	- 0 51 44.2	- 0 51 41.7
134 45 00	- 0 53 59.5	- 0 53 57.2	- 0 53 55.0	- 0 53 52.6	- 0 53 50.3
134 47 30	- 0 56 07.9	- 0 56 05.7	- 0 56 03.4	- 0 56 01.1	- 0 55 58.8
134 50 00	- 0 58 16.3	- 0 58 14.1	- 0 58 11.9	- 0 58 09.6	- 0 58 07.3
134 52 30	- 1 00 24.7	- 1 00 22.6	- 1 00 20.4	- 1 00 18.2	- 1 00 15.9
134 55 00	- 1 02 33.1	- 1 02 31.0	- 1 02 28.9	- 1 02 26.7	- 1 02 24.5
134 57 30	- 1 04 41.5	- 1 04 39.5	- 1 04 37.4	- 1 04 35.2	- 1 04 33.0
135 00 00	- 1 06 50.0	- 1 06 48.0	- 1 06 45.9	- 1 06 43.8	- 1 06 41.6
135 02 30	- 1 08 58.4	- 1 08 56.5	- 1 08 54.5	- 1 08 52.4	- 1 08 50.2
135 05 00	- 1 11 06.9	- 1 11 05.0	- 1 11 03.0	- 1 11 01.0	- 1 10 58.9
135 07 30	- 1 13 15.4	- 1 13 13.5	- 1 13 11.6	- 1 13 09.6	- 1 13 07.5
135 10 00	- 1 15 23.9	- 1 15 22.1	- 1 15 20.1	- 1 15 18.2	- 1 15 16.1
135 12 30	- 1 17 32.4	- 1 17 30.6	- 1 17 28.7	- 1 17 26.8	- 1 17 24.8
135 15 00	- 1 19 41.0	- 1 19 39.2	- 1 19 37.3	- 1 19 35.4	- 1 19 33.5
135 17 30	- 1 21 49.5	- 1 21 47.8	- 1 21 45.9	- 1 21 44.1	- 1 21 42.2
135 20 00	- 1 23 58.1	- 1 23 56.3	- 1 23 54.6	- 1 23 52.7	- 1 23 50.9
135 22 30	- 1 26 06.6	- 1 26 05.0	- 1 26 03.2	- 1 26 01.4	- 1 25 59.6
135 25 00	- 1 28 15.2	- 1 28 13.6	- 1 28 11.9	- 1 28 10.1	- 1 28 08.3
135 27 30	- 1 30 23.8	- 1 30 22.2	- 1 30 20.5	- 1 30 18.8	- 1 30 17.0
135 30 00	- 1 32 32.4	- 1 32 30.8	- 1 32 29.2	- 1 32 27.5	- 1 32 25.8
135 32 30	- 1 34 41.1	- 1 34 39.5	- 1 34 37.9	- 1 34 36.2	- 1 34 34.5
135 35 00	- 1 36 49.7	- 1 36 48.2	- 1 36 46.6	- 1 36 45.0	- 1 36 43.3
135 37 30	- 1 38 58.3	- 1 38 56.9	- 1 38 55.3	- 1 38 53.7	- 1 38 52.1
135 40 00	- 1 41 07.0	- 1 41 05.6	- 1 41 04.1	- 1 41 02.5	- 1 41 00.9
135 42 30	- 1 43 15.7	- 1 43 14.3	- 1 43 12.8	- 1 43 11.3	- 1 43 09.7
135 45 00	- 1 45 24.4	- 1 45 23.0	- 1 45 21.6	- 1 45 20.1	- 1 45 18.5
135 47 30	- 1 47 33.1	- 1 47 31.7	- 1 47 30.3	- 1 47 28.9	- 1 47 27.4
135 50 00	- 1 49 41.8	- 1 49 40.5	- 1 49 39.1	- 1 49 37.7	- 1 49 36.2
135 52 30	- 1 51 50.5	- 1 51 49.2	- 1 51 47.9	- 1 51 46.5	- 1 51 45.1
135 55 00	- 1 53 59.3	- 1 53 58.0	- 1 53 56.7	- 1 53 55.4	- 1 53 54.0
135 57 30	- 1 56 08.0	- 1 56 06.8	- 1 56 05.6	- 1 56 04.2	- 1 56 02.9
136 00 00	- 1 58 16.8	- 1 58 15.6	- 1 58 14.4	- 1 58 13.1	- 1 58 11.8
136 02 30	- 2 00 25.6	- 2 00 24.4	- 2 00 23.2	- 2 00 22.0	- 2 00 20.7
136 05 00	- 2 02 34.4	- 2 02 33.3	- 2 02 32.1	- 2 02 30.9	- 2 02 29.6
136 07 30	- 2 04 43.2	- 2 04 42.1	- 2 04 41.0	- 2 04 39.8	- 2 04 38.6
136 10 00	- 2 06 52.0	- 2 06 51.0	- 2 06 49.9	- 2 06 48.7	- 2 06 47.5
136 12 30	- 2 09 00.8	- 2 08 59.8	- 2 08 58.8	- 2 08 57.7	- 2 08 56.5
136 15 00	- 2 11 09.7	- 2 11 08.7	- 2 11 07.7	- 2 11 06.6	- 2 11 05.5
136 17 30	- 2 13 18.6	- 2 13 17.6	- 2 13 16.6	- 2 13 15.6	- 2 13 14.5
136 20 00	- 2 15 27.4	- 2 15 26.5	- 2 15 25.6	- 2 15 24.6	- 2 15 23.5
136 22 30	- 2 17 36.3	- 2 17 35.5	- 2 17 34.5	- 2 17 33.6	- 2 17 32.5
136 25 00	- 2 19 45.2	- 2 19 44.4	- 2 19 43.5	- 2 19 42.6	- 2 19 41.6
136 27 30	- 2 21 54.1	- 2 21 53.3	- 2 21 52.5	- 2 21 51.6	- 2 21 50.6
136 30 00	- 2 24 03.1	- 2 24 02.3	- 2 24 01.5	- 2 24 00.6	- 2 23 59.7

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 30 00	59 32 30	59 35 00	59 37 30	59 40 00
134 00 00	1.0001829	1.0001934	1.0002042	1.0002151	1.0002262
134 02 30	1.0001759	1.0001863	1.0001969	1.0002077	1.0002187
134 05 00	1.0001691	1.0001793	1.0001898	1.0002005	1.0002114
134 07 30	1.0001623	1.0001724	1.0001828	1.0001934	1.0002041
134 10 00	1.0001556	1.0001656	1.0001759	1.0001863	1.0001969
134 12 30	1.0001490	1.0001589	1.0001690	1.0001793	1.0001898
134 15 00	1.0001425	1.0001523	1.0001622	1.0001724	1.0001828
134 17 30	1.0001360	1.0001457	1.0001556	1.0001656	1.0001759
134 20 00	1.0001297	1.0001392	1.0001490	1.0001589	1.0001691
134 22 30	1.0001234	1.0001329	1.0001425	1.0001523	1.0001624
134 25 00	1.0001173	1.0001266	1.0001361	1.0001458	1.0001557
134 27 30	1.0001112	1.0001204	1.0001298	1.0001394	1.0001491
134 30 00	1.0001052	1.0001143	1.0001236	1.0001330	1.0001427
134 32 30	1.0000993	1.0001083	1.0001174	1.0001268	1.0001363
134 35 00	1.0000935	1.0001023	1.0001114	1.0001206	1.0001300
134 37 30	1.0000878	1.0000965	1.0001054	1.0001145	1.0001238
134 40 00	1.0000822	1.0000908	1.0000995	1.0001085	1.0001177
134 42 30	1.0000766	1.0000851	1.0000937	1.0001026	1.0001116
134 45 00	1.0000712	1.0000795	1.0000880	1.0000968	1.0001057
134 47 30	1.0000658	1.0000740	1.0000824	1.0000910	1.0000998
134 50 00	1.0000605	1.0000686	1.0000769	1.0000854	1.0000941
134 52 30	1.0000554	1.0000633	1.0000715	1.0000798	1.0000884
134 55 00	1.0000503	1.0000581	1.0000661	1.0000744	1.0000828
134 57 30	1.0000452	1.0000530	1.0000609	1.0000690	1.0000773
135 00 00	1.0000403	1.0000479	1.0000557	1.0000637	1.0000719
135 02 30	1.0000355	1.0000429	1.0000506	1.0000585	1.0000665
135 05 00	1.0000307	1.0000381	1.0000456	1.0000533	1.0000613
135 07 30	1.0000261	1.0000333	1.0000407	1.0000483	1.0000561
135 10 00	1.0000215	1.0000286	1.0000359	1.0000434	1.0000511
135 12 30	1.0000170	1.0000240	1.0000311	1.0000385	1.0000461
135 15 00	1.0000126	1.0000194	1.0000265	1.0000337	1.0000412
135 17 30	1.0000083	1.0000150	1.0000219	1.0000290	1.0000363
135 20 00	1.0000040	1.0000106	1.0000174	1.0000244	1.0000316
135 22 30	0.9999999	1.0000064	1.0000130	1.0000199	1.0000270
135 25 00	0.9999958	1.0000022	1.0000087	1.0000155	1.0000224
135 27 30	0.9999919	0.9999981	1.0000045	1.0000111	1.0000179
135 30 00	0.9999880	0.9999941	1.0000003	1.0000068	1.0000135
135 32 30	0.9999842	0.9999901	0.9999963	1.0000027	1.0000092
135 35 00	0.9999805	0.9999863	0.9999923	0.9999986	1.0000050
135 37 30	0.9999768	0.9999825	0.9999884	0.9999946	1.0000009
135 40 00	0.9999733	0.9999789	0.9999847	0.9999906	0.9999968
135 42 30	0.9999698	0.9999753	0.9999809	0.9999868	0.9999929
135 45 00	0.9999664	0.9999718	0.9999773	0.9999831	0.9999890
135 47 30	0.9999632	0.9999684	0.9999738	0.9999794	0.9999852
135 50 00	0.9999599	0.9999650	0.9999703	0.9999758	0.9999815
135 52 30	0.9999568	0.9999618	0.9999669	0.9999723	0.9999779
135 55 00	0.9999538	0.9999586	0.9999636	0.9999689	0.9999743
135 57 30	0.9999508	0.9999555	0.9999604	0.9999655	0.9999709
136 00 00	0.9999480	0.9999525	0.9999573	0.9999623	0.9999675
136 02 30	0.9999452	0.9999496	0.9999543	0.9999591	0.9999642
136 05 00	0.9999425	0.9999468	0.9999513	0.9999561	0.9999610
136 07 30	0.9999399	0.9999441	0.9999485	0.9999531	0.9999579
136 10 00	0.9999374	0.9999414	0.9999457	0.9999501	0.9999548
136 12 30	0.9999349	0.9999388	0.9999430	0.9999473	0.9999519
136 15 00	0.9999325	0.9999363	0.9999404	0.9999446	0.9999490
136 17 30	0.9999303	0.9999339	0.9999378	0.9999419	0.9999462
136 20 00	0.9999281	0.9999316	0.9999354	0.9999393	0.9999435
136 22 30	0.9999260	0.9999294	0.9999330	0.9999368	0.9999409
136 25 00	0.9999239	0.9999272	0.9999307	0.9999344	0.9999383
136 27 30	0.9999220	0.9999251	0.9999285	0.9999321	0.9999359
136 30 00	0.9999201	0.9999231	0.9999264	0.9999298	0.9999335

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 30 00	59 32 30	59 35 00	59 37 30	59 40 00
136 30 00	- 2 24 03.1	- 2 24 02.3	- 2 24 01.5	- 2 24 00.6	- 2 23 59.7
136 32 30	- 2 26 12.0	- 2 26 11.3	- 2 26 10.5	- 2 26 09.7	- 2 26 08.8
136 35 00	- 2 28 21.0	- 2 28 20.3	- 2 28 19.5	- 2 28 18.7	- 2 28 17.9
136 37 30	- 2 30 29.9	- 2 30 29.3	- 2 30 28.6	- 2 30 27.8	- 2 30 27.0
136 40 00	- 2 32 38.9	- 2 32 38.3	- 2 32 37.6	- 2 32 36.9	- 2 32 36.1
136 42 30	- 2 34 47.9	- 2 34 47.3	- 2 34 46.7	- 2 34 46.0	- 2 34 45.2
136 45 00	- 2 36 56.9	- 2 36 56.4	- 2 36 55.8	- 2 36 55.1	- 2 36 54.4
136 47 30	- 2 39 06.0	- 2 39 05.4	- 2 39 04.9	- 2 39 04.2	- 2 39 03.5
136 50 00	- 2 41 15.0	- 2 41 14.5	- 2 41 14.0	- 2 41 13.4	- 2 41 12.7
136 52 30	- 2 43 24.1	- 2 43 23.6	- 2 43 23.1	- 2 43 22.5	- 2 43 21.9
136 55 00	- 2 45 33.1	- 2 45 32.7	- 2 45 32.2	- 2 45 31.7	- 2 45 31.1
136 57 30	- 2 47 42.2	- 2 47 41.8	- 2 47 41.4	- 2 47 40.9	- 2 47 40.3
137 00 00	- 2 49 51.3	- 2 49 50.9	- 2 49 50.5	- 2 49 50.0	- 2 49 49.5
137 02 30	- 2 52 00.4	- 2 52 00.1	- 2 51 59.7	- 2 51 59.3	- 2 51 58.8
137 05 00	- 2 54 09.5	- 2 54 09.2	- 2 54 08.9	- 2 54 08.5	- 2 54 08.0
137 07 30	- 2 56 18.7	- 2 56 18.4	- 2 56 18.1	- 2 56 17.7	- 2 56 17.3
137 10 00	- 2 58 27.8	- 2 58 27.6	- 2 58 27.3	- 2 58 27.0	- 2 58 26.6
137 12 30	- 3 00 37.0	- 3 00 36.8	- 3 00 36.5	- 3 00 36.2	- 3 00 35.9
137 15 00	- 3 02 46.2	- 3 02 46.0	- 3 02 45.8	- 3 02 45.5	- 3 02 45.2
137 17 30	- 3 04 55.4	- 3 04 55.2	- 3 04 55.0	- 3 04 54.8	- 3 04 54.5
137 20 00	- 3 07 04.6	- 3 07 04.5	- 3 07 04.3	- 3 07 04.1	- 3 07 03.8
137 22 30	- 3 09 13.8	- 3 09 13.7	- 3 09 13.6	- 3 09 13.4	- 3 09 13.2
137 25 00	- 3 11 23.0	- 3 11 23.0	- 3 11 22.9	- 3 11 22.7	- 3 11 22.5
137 27 30	- 3 13 32.3	- 3 13 32.3	- 3 13 32.2	- 3 13 32.1	- 3 13 31.9
137 30 00	- 3 15 41.5	- 3 15 41.5	- 3 15 41.5	- 3 15 41.4	- 3 15 41.3
137 32 30	- 3 17 50.8	- 3 17 50.9	- 3 17 50.9	- 3 17 50.8	- 3 17 50.7
137 35 00	- 3 20 00.1	- 3 20 00.2	- 3 20 00.2	- 3 20 00.2	- 3 20 00.1
137 37 30	- 3 22 09.4	- 3 22 09.5	- 3 22 09.6	- 3 22 09.6	- 3 22 09.6
137 40 00	- 3 24 18.7	- 3 24 18.9	- 3 24 19.0	- 3 24 19.0	- 3 24 19.0
137 42 30	- 3 26 28.0	- 3 26 28.2	- 3 26 28.4	- 3 26 28.4	- 3 26 28.5
137 45 00	- 3 28 37.4	- 3 28 37.6	- 3 28 37.8	- 3 28 37.9	- 3 28 37.9
137 47 30	- 3 30 46.7	- 3 30 47.0	- 3 30 47.2	- 3 30 47.3	- 3 30 47.4
137 50 00	- 3 32 56.1	- 3 32 56.4	- 3 32 56.6	- 3 32 56.8	- 3 32 56.9
137 52 30	- 3 35 05.5	- 3 35 05.8	- 3 35 06.1	- 3 35 06.3	- 3 35 06.4
137 55 00	- 3 37 14.9	- 3 37 15.2	- 3 37 15.5	- 3 37 15.8	- 3 37 16.0
137 57 30	- 3 39 24.3	- 3 39 24.7	- 3 39 25.0	- 3 39 25.3	- 3 39 25.5
138 00 00	- 3 41 33.7	- 3 41 34.1	- 3 41 34.5	- 3 41 34.8	- 3 41 35.1
138 02 30	- 3 43 43.2	- 3 43 43.6	- 3 43 44.0	- 3 43 44.3	- 3 43 44.6
138 05 00	- 3 45 52.6	- 3 45 53.1	- 3 45 53.5	- 3 45 53.9	- 3 45 54.2
138 07 30	- 3 48 02.1	- 3 48 02.6	- 3 48 03.1	- 3 48 03.5	- 3 48 03.8
138 10 00	- 3 50 11.6	- 3 50 12.1	- 3 50 12.6	- 3 50 13.0	- 3 50 13.4
138 12 30	- 3 52 21.1	- 3 52 21.7	- 3 52 22.2	- 3 52 22.6	- 3 52 23.0
138 15 00	- 3 54 30.6	- 3 54 31.2	- 3 54 31.7	- 3 54 32.2	- 3 54 32.7
138 17 30	- 3 56 40.1	- 3 56 40.8	- 3 56 41.3	- 3 56 41.9	- 3 56 42.3
138 20 00	- 3 58 49.7	- 3 58 50.3	- 3 58 50.9	- 3 58 51.5	- 3 58 52.0
138 22 30	- 4 00 59.2	- 4 00 59.9	- 4 01 00.6	- 4 01 01.1	- 4 01 01.7
138 25 00	- 4 03 08.8	- 4 03 09.5	- 4 03 10.2	- 4 03 10.8	- 4 03 11.4
138 27 30	- 4 05 18.4	- 4 05 19.1	- 4 05 19.8	- 4 05 20.5	- 4 05 21.1
138 30 00	- 4 07 28.0	- 4 07 28.8	- 4 07 29.5	- 4 07 30.2	- 4 07 30.8
138 32 30	- 4 09 37.6	- 4 09 38.4	- 4 09 39.2	- 4 09 39.9	- 4 09 40.5
138 35 00	- 4 11 47.2	- 4 11 48.1	- 4 11 48.9	- 4 11 49.6	- 4 11 50.3
138 37 30	- 4 13 56.9	- 4 13 57.7	- 4 13 58.6	- 4 13 59.3	- 4 14 00.0
138 40 00	- 4 16 06.5	- 4 16 07.4	- 4 16 08.3	- 4 16 09.1	- 4 16 09.8
138 42 30	- 4 18 16.2	- 4 18 17.1	- 4 18 18.0	- 4 18 18.8	- 4 18 19.6
138 45 00	- 4 20 25.9	- 4 20 26.8	- 4 20 27.8	- 4 20 28.6	- 4 20 29.4
138 47 30	- 4 22 35.6	- 4 22 36.6	- 4 22 37.5	- 4 22 38.4	- 4 22 39.2
138 50 00	- 4 24 45.3	- 4 24 46.3	- 4 24 47.3	- 4 24 48.2	- 4 24 49.1
138 52 30	- 4 26 55.0	- 4 26 56.1	- 4 26 57.1	- 4 26 58.0	- 4 26 58.9
138 55 00	- 4 29 04.7	- 4 29 05.8	- 4 29 06.9	- 4 29 07.9	- 4 29 08.8
138 57 30	- 4 31 14.5	- 4 31 15.6	- 4 31 16.7	- 4 31 17.7	- 4 31 18.7
139 00 00	- 4 33 24.3	- 4 33 25.4	- 4 33 26.5	- 4 33 27.6	- 4 33 28.6

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 30 00	59 32 30	59 35 00	59 37 30	59 40 00
136 30 00	0.9999201	0.9999231	0.9999264	0.9999298	0.9999335
136 32 30	0.9999183	0.9999212	0.9999243	0.9999277	0.9999312
136 35 00	0.9999166	0.9999194	0.9999224	0.9999256	0.9999290
136 37 30	0.9999150	0.9999177	0.9999205	0.9999236	0.9999269
136 40 00	0.9999135	0.9999160	0.9999187	0.9999217	0.9999248
136 42 30	0.9999120	0.9999144	0.9999170	0.9999198	0.9999228
136 45 00	0.9999107	0.9999129	0.9999154	0.9999181	0.9999209
136 47 30	0.9999094	0.9999115	0.9999138	0.9999164	0.9999191
136 50 00	0.9999082	0.9999102	0.9999124	0.9999148	0.9999174
136 52 30	0.9999071	0.9999089	0.9999110	0.9999133	0.9999158
136 55 00	0.9999060	0.9999077	0.9999097	0.9999118	0.9999142
136 57 30	0.9999051	0.9999067	0.9999085	0.9999105	0.9999127
137 00 00	0.9999042	0.9999056	0.9999073	0.9999092	0.9999113
137 02 30	0.9999034	0.9999047	0.9999063	0.9999080	0.9999100
137 05 00	0.9999027	0.9999039	0.9999053	0.9999069	0.9999088
137 07 30	0.9999020	0.9999031	0.9999044	0.9999059	0.9999076
137 10 00	0.9999015	0.9999024	0.9999036	0.9999049	0.9999065
137 12 30	0.9999010	0.9999018	0.9999028	0.9999041	0.9999055
137 15 00	0.9999006	0.9999013	0.9999022	0.9999033	0.9999046
137 17 30	0.9999003	0.9999008	0.9999016	0.9999026	0.9999038
137 20 00	0.9999001	0.9999005	0.9999011	0.9999020	0.9999030
137 22 30	0.9998999	0.9999002	0.9999007	0.9999014	0.9999024
137 25 00	0.9998998	0.9999000	0.9999004	0.9999010	0.9999018
137 27 30	0.9998998	0.9998999	0.9999001	0.9999006	0.9999012
137 30 00	0.9998999	0.9998998	0.9998999	0.9999003	0.9999008
137 32 30	0.9999001	0.9998999	0.9998998	0.9999000	0.9999004
137 35 00	0.9999003	0.9999000	0.9998998	0.9998999	0.9999002
137 37 30	0.9999007	0.9999002	0.9998999	0.9998998	0.9999000
137 40 00	0.9999011	0.9999004	0.9999000	0.9998998	0.9998998
137 42 30	0.9999016	0.9999008	0.9999002	0.9998999	0.9998998
137 45 00	0.9999021	0.9999012	0.9999005	0.9999001	0.9998998
137 47 30	0.9999028	0.9999017	0.9999009	0.9999003	0.9998999
137 50 00	0.9999035	0.9999023	0.9999014	0.9999006	0.9999001
137 52 30	0.9999043	0.9999030	0.9999019	0.9999010	0.9999004
137 55 00	0.9999052	0.9999037	0.9999025	0.9999015	0.9999008
137 57 30	0.9999061	0.9999046	0.9999032	0.9999021	0.9999012
138 00 00	0.9999072	0.9999055	0.9999040	0.9999027	0.9999017
138 02 30	0.9999083	0.9999064	0.9999048	0.9999034	0.9999023
138 05 00	0.9999095	0.9999075	0.9999058	0.9999042	0.9999029
138 07 30	0.9999108	0.9999086	0.9999068	0.9999051	0.9999037
138 10 00	0.9999121	0.9999099	0.9999078	0.9999060	0.9999045
138 12 30	0.9999135	0.9999112	0.9999090	0.9999071	0.9999054
138 15 00	0.9999150	0.9999125	0.9999102	0.9999082	0.9999063
138 17 30	0.9999166	0.9999140	0.9999115	0.9999093	0.9999074
138 20 00	0.9999183	0.9999155	0.9999129	0.9999106	0.9999085
138 22 30	0.9999200	0.9999171	0.9999144	0.9999119	0.9999097
138 25 00	0.9999218	0.9999188	0.9999159	0.9999133	0.9999110
138 27 30	0.9999237	0.9999205	0.9999176	0.9999148	0.9999123
138 30 00	0.9999257	0.9999224	0.9999193	0.9999164	0.9999138
138 32 30	0.9999277	0.9999243	0.9999210	0.9999180	0.9999153
138 35 00	0.9999298	0.9999263	0.9999229	0.9999197	0.9999168
138 37 30	0.9999320	0.9999283	0.9999248	0.9999215	0.9999185
138 40 00	0.9999343	0.9999305	0.9999268	0.9999234	0.9999202
138 42 30	0.9999367	0.9999327	0.9999289	0.9999253	0.9999220
138 45 00	0.9999391	0.9999350	0.9999310	0.9999274	0.9999239
138 47 30	0.9999416	0.9999373	0.9999333	0.9999295	0.9999259
138 50 00	0.9999442	0.9999398	0.9999356	0.9999316	0.9999279
138 52 30	0.9999468	0.9999423	0.9999380	0.9999339	0.9999300
138 55 00	0.9999495	0.9999449	0.9999404	0.9999362	0.9999322
138 57 30	0.9999524	0.9999475	0.9999429	0.9999386	0.9999345
139 00 00	0.9999552	0.9999503	0.9999456	0.9999411	0.9999368

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 30 00	59 32 30	59 35 00	59 37 30	59 40 00
139 00 00	- 4 33 24.3	- 4 33 25.4	- 4 33 26.5	- 4 33 27.6	- 4 33 28.6
139 02 30	- 4 35 34.0	- 4 35 35.2	- 4 35 36.4	- 4 35 37.4	- 4 35 38.5
139 05 00	- 4 37 43.8	- 4 37 45.1	- 4 37 46.2	- 4 37 47.3	- 4 37 48.4
139 07 30	- 4 39 53.7	- 4 39 54.9	- 4 39 56.1	- 4 39 57.2	- 4 39 58.3
139 10 00	- 4 42 03.5	- 4 42 04.8	- 4 42 06.0	- 4 42 07.2	- 4 42 08.3
139 12 30	- 4 44 13.3	- 4 44 14.6	- 4 44 15.9	- 4 44 17.1	- 4 44 18.2
139 15 00	- 4 46 23.2	- 4 46 24.5	- 4 46 25.8	- 4 46 27.0	- 4 46 28.2
139 17 30	- 4 48 33.0	- 4 48 34.4	- 4 48 35.7	- 4 48 37.0	- 4 48 38.2
139 20 00	- 4 50 42.9	- 4 50 44.3	- 4 50 45.7	- 4 50 47.0	- 4 50 48.2
139 22 30	- 4 52 52.8	- 4 52 54.3	- 4 52 55.6	- 4 52 57.0	- 4 52 58.2
139 25 00	- 4 55 02.7	- 4 55 04.2	- 4 55 05.6	- 4 55 07.0	- 4 55 08.2
139 27 30	- 4 57 12.7	- 4 57 14.2	- 4 57 15.6	- 4 57 17.0	- 4 57 18.3
139 30 00	- 4 59 22.6	- 4 59 24.1	- 4 59 25.6	- 4 59 27.0	- 4 59 28.4
139 32 30	- 5 01 32.6	- 5 01 34.1	- 5 01 35.6	- 5 01 37.0	- 5 01 38.4
139 35 00	- 5 03 42.5	- 5 03 44.1	- 5 03 45.6	- 5 03 47.1	- 5 03 48.5
139 37 30	- 5 05 52.5	- 5 05 54.1	- 5 05 55.7	- 5 05 57.2	- 5 05 58.6
139 40 00	- 5 08 02.5	- 5 08 04.2	- 5 08 05.7	- 5 08 07.3	- 5 08 08.7
139 42 30	- 5 10 12.5	- 5 10 14.2	- 5 10 15.8	- 5 10 17.4	- 5 10 18.9
139 45 00	- 5 12 22.6	- 5 12 24.3	- 5 12 25.9	- 5 12 27.5	- 5 12 29.0
139 47 30	- 5 14 32.6	- 5 14 34.3	- 5 14 36.0	- 5 14 37.6	- 5 14 39.2
139 50 00	- 5 16 42.7	- 5 16 44.4	- 5 16 46.1	- 5 16 47.8	- 5 16 49.4
139 52 30	- 5 18 52.7	- 5 18 54.5	- 5 18 56.3	- 5 18 57.9	- 5 18 59.6
139 55 00	- 5 21 02.8	- 5 21 04.6	- 5 21 06.4	- 5 21 08.1	- 5 21 09.8
139 57 30	- 5 23 12.9	- 5 23 14.8	- 5 23 16.6	- 5 23 18.3	- 5 23 20.0
140 00 00	- 5 25 23.0	- 5 25 24.9	- 5 25 26.7	- 5 25 28.5	- 5 25 30.2
140 02 30	- 5 27 33.2	- 5 27 35.1	- 5 27 36.9	- 5 27 38.7	- 5 27 40.5
140 05 00	- 5 29 43.3	- 5 29 45.3	- 5 29 47.1	- 5 29 49.0	- 5 29 50.7
140 07 30	- 5 31 53.5	- 5 31 55.4	- 5 31 57.4	- 5 31 59.2	- 5 32 01.0
140 10 00	- 5 34 03.7	- 5 34 05.7	- 5 34 07.6	- 5 34 09.5	- 5 34 11.3
140 12 30	- 5 36 13.9	- 5 36 15.9	- 5 36 17.8	- 5 36 19.7	- 5 36 21.6
140 15 00	- 5 38 24.1	- 5 38 26.1	- 5 38 28.1	- 5 38 30.0	- 5 38 31.9
140 17 30	- 5 40 34.3	- 5 40 36.4	- 5 40 38.4	- 5 40 40.3	- 5 40 42.3
140 20 00	- 5 42 44.5	- 5 42 46.6	- 5 42 48.7	- 5 42 50.7	- 5 42 52.6
140 22 30	- 5 44 54.8	- 5 44 56.9	- 5 44 59.0	- 5 45 01.0	- 5 45 03.0
140 25 00	- 5 47 05.0	- 5 47 07.2	- 5 47 09.3	- 5 47 11.3	- 5 47 13.3
140 27 30	- 5 49 15.3	- 5 49 17.5	- 5 49 19.6	- 5 49 21.7	- 5 49 23.7
140 30 00	- 5 51 25.6	- 5 51 27.8	- 5 51 30.0	- 5 51 32.1	- 5 51 34.1
140 32 30	- 5 53 35.9	- 5 53 38.1	- 5 53 40.3	- 5 53 42.5	- 5 53 44.6
140 35 00	- 5 55 46.2	- 5 55 48.5	- 5 55 50.7	- 5 55 52.9	- 5 55 55.0
140 37 30	- 5 57 56.6	- 5 57 58.9	- 5 58 01.1	- 5 58 03.3	- 5 58 05.5
140 40 00	- 6 00 06.9	- 6 00 09.2	- 6 00 11.5	- 6 00 13.8	- 6 00 15.9
140 42 30	- 6 02 17.3	- 6 02 19.6	- 6 02 21.9	- 6 02 24.2	- 6 02 26.4
140 45 00	- 6 04 27.7	- 6 04 30.1	- 6 04 32.4	- 6 04 34.7	- 6 04 36.9
140 47 30	- 6 06 38.1	- 6 06 40.5	- 6 06 42.8	- 6 06 45.2	- 6 06 47.4
140 50 00	- 6 08 48.5	- 6 08 50.9	- 6 08 53.3	- 6 08 55.6	- 6 08 57.9
140 52 30	- 6 10 58.9	- 6 11 01.4	- 6 11 03.8	- 6 11 06.2	- 6 11 08.5
140 55 00	- 6 13 09.3	- 6 13 11.8	- 6 13 14.3	- 6 13 16.7	- 6 13 19.0
140 57 30	- 6 15 19.8	- 6 15 22.3	- 6 15 24.8	- 6 15 27.2	- 6 15 29.6
141 00 00	- 6 17 30.3	- 6 17 32.8	- 6 17 35.3	- 6 17 37.8	- 6 17 40.2
141 02 30	- 6 19 40.7	- 6 19 43.3	- 6 19 45.9	- 6 19 48.3	- 6 19 50.8
141 05 00	- 6 21 51.3	- 6 21 53.9	- 6 21 56.4	- 6 21 58.9	- 6 22 01.4
141 07 30	- 6 24 01.8	- 6 24 04.4	- 6 24 07.0	- 6 24 09.5	- 6 24 12.0
141 10 00	- 6 26 12.3	- 6 26 15.0	- 6 26 17.6	- 6 26 20.1	- 6 26 22.7
141 12 30	- 6 28 22.8	- 6 28 25.5	- 6 28 28.2	- 6 28 30.8	- 6 28 33.3
141 15 00	- 6 30 33.4	- 6 30 36.1	- 6 30 38.8	- 6 30 41.4	- 6 30 44.0
141 17 30	- 6 32 44.0	- 6 32 46.7	- 6 32 49.4	- 6 32 52.1	- 6 32 54.7
141 20 00	- 6 34 54.6	- 6 34 57.3	- 6 35 00.1	- 6 35 02.7	- 6 35 05.4
141 22 30	- 6 37 05.2	- 6 37 08.0	- 6 37 10.7	- 6 37 13.4	- 6 37 16.1
141 25 00	- 6 39 15.8	- 6 39 18.6	- 6 39 21.4	- 6 39 24.1	- 6 39 26.8
141 27 30	- 6 41 26.4	- 6 41 29.3	- 6 41 32.1	- 6 41 34.9	- 6 41 37.6
141 30 00	- 6 43 37.1	- 6 43 40.0	- 6 43 42.8	- 6 43 45.6	- 6 43 48.3

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 30 00	59 32 30	59 35 00	59 37 30	59 40 00
139 00 00	0.9999552	0.9999503	0.9999456	0.9999411	0.9999368
139 02 30	0.9999582	0.9999531	0.9999482	0.9999436	0.9999392
139 05 00	0.9999612	0.9999560	0.9999510	0.9999462	0.9999417
139 07 30	0.9999643	0.9999590	0.9999538	0.9999489	0.9999442
139 10 00	0.9999675	0.9999620	0.9999567	0.9999517	0.9999469
139 12 30	0.9999708	0.9999651	0.9999597	0.9999545	0.9999496
139 15 00	0.9999741	0.9999683	0.9999628	0.9999574	0.9999524
139 17 30	0.9999775	0.9999716	0.9999659	0.9999604	0.9999552
139 20 00	0.9999810	0.9999749	0.9999691	0.9999635	0.9999581
139 22 30	0.9999845	0.9999783	0.9999724	0.9999666	0.9999612
139 25 00	0.9999881	0.9999818	0.9999757	0.9999699	0.9999642
139 27 30	0.9999918	0.9999854	0.9999791	0.9999731	0.9999674
139 30 00	0.9999956	0.9999890	0.9999826	0.9999765	0.9999706
139 32 30	0.9999994	0.9999927	0.9999862	0.9999799	0.9999739
139 35 00	1.0000034	0.9999965	0.9999898	0.9999834	0.9999773
139 37 30	1.0000074	1.0000003	0.9999936	0.9999870	0.9999807
139 40 00	1.0000114	1.0000043	0.9999973	0.9999907	0.9999842
139 42 30	1.0000156	1.0000083	1.0000012	0.9999944	0.9999878
139 45 00	1.0000198	1.0000123	1.0000051	0.9999982	0.9999915
139 47 30	1.0000241	1.0000165	1.0000092	1.0000021	0.9999952
139 50 00	1.0000284	1.0000207	1.0000132	1.0000060	0.9999990
139 52 30	1.0000329	1.0000250	1.0000174	1.0000100	1.0000029
139 55 00	1.0000374	1.0000294	1.0000216	1.0000141	1.0000068
139 57 30	1.0000419	1.0000338	1.0000259	1.0000183	1.0000108
140 00 00	1.0000466	1.0000383	1.0000303	1.0000225	1.0000149
140 02 30	1.0000513	1.0000429	1.0000347	1.0000268	1.0000191
140 05 00	1.0000561	1.0000475	1.0000392	1.0000312	1.0000233
140 07 30	1.0000609	1.0000523	1.0000438	1.0000356	1.0000276
140 10 00	1.0000659	1.0000571	1.0000485	1.0000401	1.0000320
140 12 30	1.0000709	1.0000619	1.0000532	1.0000447	1.0000365
140 15 00	1.0000760	1.0000669	1.0000580	1.0000494	1.0000410
140 17 30	1.0000811	1.0000719	1.0000629	1.0000541	1.0000456
140 20 00	1.0000863	1.0000769	1.0000678	1.0000589	1.0000502
140 22 30	1.0000916	1.0000821	1.0000728	1.0000638	1.0000550
140 25 00	1.0000970	1.0000873	1.0000779	1.0000687	1.0000598
140 27 30	1.0001024	1.0000926	1.0000830	1.0000737	1.0000646
140 30 00	1.0001079	1.0000980	1.0000883	1.0000788	1.0000696
140 32 30	1.0001135	1.0001034	1.0000936	1.0000840	1.0000746
140 35 00	1.0001191	1.0001089	1.0000989	1.0000892	1.0000797
140 37 30	1.0001249	1.0001145	1.0001044	1.0000945	1.0000848
140 40 00	1.0001306	1.0001201	1.0001099	1.0000998	1.0000901
140 42 30	1.0001365	1.0001258	1.0001154	1.0001053	1.0000954
140 45 00	1.0001424	1.0001316	1.0001211	1.0001108	1.0001007
140 47 30	1.0001484	1.0001375	1.0001268	1.0001163	1.0001061
140 50 00	1.0001545	1.0001434	1.0001326	1.0001220	1.0001116
140 52 30	1.0001606	1.0001494	1.0001384	1.0001277	1.0001172
140 55 00	1.0001668	1.0001555	1.0001443	1.0001335	1.0001229
140 57 30	1.0001731	1.0001616	1.0001503	1.0001393	1.0001286
141 00 00	1.0001794	1.0001678	1.0001564	1.0001452	1.0001343
141 02 30	1.0001858	1.0001741	1.0001625	1.0001512	1.0001402
141 05 00	1.0001923	1.0001804	1.0001687	1.0001573	1.0001461
141 07 30	1.0001989	1.0001868	1.0001750	1.0001634	1.0001521
141 10 00	1.0002055	1.0001933	1.0001813	1.0001696	1.0001581
141 12 30	1.0002122	1.0001998	1.0001877	1.0001758	1.0001642
141 15 00	1.0002189	1.0002064	1.0001942	1.0001822	1.0001704
141 17 30	1.0002257	1.0002131	1.0002007	1.0001886	1.0001767
141 20 00	1.0002326	1.0002198	1.0002073	1.0001950	1.0001830
141 22 30	1.0002396	1.0002267	1.0002140	1.0002016	1.0001894
141 25 00	1.0002466	1.0002335	1.0002207	1.0002082	1.0001958
141 27 30	1.0002537	1.0002405	1.0002275	1.0002148	1.0002024
141 30 00	1.0002609	1.0002475	1.0002344	1.0002216	1.0002090

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 40 00	59 42 30	59 45 00	59 47 30	59 50 00
134 00 00	- 0 15 18.9	- 0 15 15.8	- 0 15 12.7	- 0 15 09.5	- 0 15 06.3
134 02 30	- 0 17 27.2	- 0 17 24.2	- 0 17 21.1	- 0 17 17.9	- 0 17 14.7
134 05 00	- 0 19 35.5	- 0 19 32.5	- 0 19 29.4	- 0 19 26.3	- 0 19 23.2
134 07 30	- 0 21 43.8	- 0 21 40.9	- 0 21 37.8	- 0 21 34.8	- 0 21 31.6
134 10 00	- 0 23 52.2	- 0 23 49.2	- 0 23 46.3	- 0 23 43.2	- 0 23 40.1
134 12 30	- 0 26 00.5	- 0 25 57.6	- 0 25 54.7	- 0 25 51.7	- 0 25 48.6
134 15 00	- 0 28 08.9	- 0 28 06.0	- 0 28 03.1	- 0 28 00.2	- 0 27 57.1
134 17 30	- 0 30 17.3	- 0 30 14.4	- 0 30 11.6	- 0 30 08.6	- 0 30 05.7
134 20 00	- 0 32 25.7	- 0 32 22.9	- 0 32 20.0	- 0 32 17.1	- 0 32 14.2
134 22 30	- 0 34 34.1	- 0 34 31.3	- 0 34 28.5	- 0 34 25.6	- 0 34 22.7
134 25 00	- 0 36 42.5	- 0 36 39.8	- 0 36 37.0	- 0 36 34.2	- 0 36 31.3
134 27 30	- 0 38 50.9	- 0 38 48.2	- 0 38 45.5	- 0 38 42.7	- 0 38 39.9
134 30 00	- 0 40 59.4	- 0 40 56.7	- 0 40 54.0	- 0 40 51.3	- 0 40 48.5
134 32 30	- 0 43 07.8	- 0 43 05.2	- 0 43 02.5	- 0 42 59.8	- 0 42 57.0
134 35 00	- 0 45 16.3	- 0 45 13.7	- 0 45 11.1	- 0 45 08.4	- 0 45 05.7
134 37 30	- 0 47 24.8	- 0 47 22.2	- 0 47 19.6	- 0 47 17.0	- 0 47 14.3
134 40 00	- 0 49 33.2	- 0 49 30.7	- 0 49 28.2	- 0 49 25.6	- 0 49 22.9
134 42 30	- 0 51 41.7	- 0 51 39.3	- 0 51 36.8	- 0 51 34.2	- 0 51 31.6
134 45 00	- 0 53 50.3	- 0 53 47.8	- 0 53 45.4	- 0 53 42.8	- 0 53 40.2
134 47 30	- 0 55 58.8	- 0 55 56.4	- 0 55 54.0	- 0 55 51.4	- 0 55 48.9
134 50 00	- 0 58 07.3	- 0 58 05.0	- 0 58 02.6	- 0 58 00.1	- 0 57 57.6
134 52 30	- 1 00 15.9	- 1 00 13.6	- 1 00 11.2	- 1 00 08.8	- 1 00 06.3
134 55 00	- 1 02 24.5	- 1 02 22.2	- 1 02 19.8	- 1 02 17.4	- 1 02 15.0
134 57 30	- 1 04 33.0	- 1 04 30.8	- 1 04 28.5	- 1 04 26.1	- 1 04 23.7
135 00 00	- 1 06 41.6	- 1 06 39.4	- 1 06 37.1	- 1 06 34.8	- 1 06 32.4
135 02 30	- 1 08 50.2	- 1 08 48.1	- 1 08 45.8	- 1 08 43.5	- 1 08 41.2
135 05 00	- 1 10 58.9	- 1 10 56.7	- 1 10 54.5	- 1 10 52.3	- 1 10 50.0
135 07 30	- 1 13 07.5	- 1 13 05.4	- 1 13 03.2	- 1 13 01.0	- 1 12 58.7
135 10 00	- 1 15 16.1	- 1 15 14.1	- 1 15 11.9	- 1 15 09.7	- 1 15 07.5
135 12 30	- 1 17 24.8	- 1 17 22.8	- 1 17 20.7	- 1 17 18.5	- 1 17 16.3
135 15 00	- 1 19 33.5	- 1 19 31.5	- 1 19 29.4	- 1 19 27.3	- 1 19 25.1
135 17 30	- 1 21 42.2	- 1 21 40.2	- 1 21 38.2	- 1 21 36.1	- 1 21 33.9
135 20 00	- 1 23 50.9	- 1 23 48.9	- 1 23 46.9	- 1 23 44.9	- 1 23 42.8
135 22 30	- 1 25 59.6	- 1 25 57.7	- 1 25 55.7	- 1 25 53.7	- 1 25 51.6
135 25 00	- 1 28 08.3	- 1 28 06.4	- 1 28 04.5	- 1 28 02.5	- 1 28 00.5
135 27 30	- 1 30 17.0	- 1 30 15.2	- 1 30 13.3	- 1 30 11.4	- 1 30 09.4
135 30 00	- 1 32 25.8	- 1 32 24.0	- 1 32 22.1	- 1 32 20.2	- 1 32 18.3
135 32 30	- 1 34 34.5	- 1 34 32.8	- 1 34 31.0	- 1 34 29.1	- 1 34 27.2
135 35 00	- 1 36 43.3	- 1 36 41.6	- 1 36 39.8	- 1 36 38.0	- 1 36 36.1
135 37 30	- 1 38 52.1	- 1 38 50.4	- 1 38 48.7	- 1 38 46.9	- 1 38 45.0
135 40 00	- 1 41 00.9	- 1 40 59.2	- 1 40 57.5	- 1 40 55.8	- 1 40 53.9
135 42 30	- 1 43 09.7	- 1 43 08.1	- 1 43 06.4	- 1 43 04.7	- 1 43 02.9
135 45 00	- 1 45 18.5	- 1 45 16.9	- 1 45 15.3	- 1 45 13.6	- 1 45 11.9
135 47 30	- 1 47 27.4	- 1 47 25.8	- 1 47 24.2	- 1 47 22.6	- 1 47 20.8
135 50 00	- 1 49 36.2	- 1 49 34.7	- 1 49 33.1	- 1 49 31.5	- 1 49 29.8
135 52 30	- 1 51 45.1	- 1 51 43.6	- 1 51 42.1	- 1 51 40.5	- 1 51 38.8
135 55 00	- 1 53 54.0	- 1 53 52.5	- 1 53 51.0	- 1 53 49.5	- 1 53 47.8
135 57 30	- 1 56 02.9	- 1 56 01.5	- 1 55 60.0	- 1 55 58.5	- 1 55 56.9
136 00 00	- 1 58 11.8	- 1 58 10.4	- 1 58 09.0	- 1 58 07.5	- 1 58 05.9
136 02 30	- 2 00 20.7	- 2 00 19.3	- 2 00 17.9	- 2 00 16.5	- 2 00 15.0
136 05 00	- 2 02 29.6	- 2 02 28.3	- 2 02 26.9	- 2 02 25.5	- 2 02 24.0
136 07 30	- 2 04 38.6	- 2 04 37.3	- 2 04 36.0	- 2 04 34.6	- 2 04 33.1
136 10 00	- 2 06 47.5	- 2 06 46.3	- 2 06 45.0	- 2 06 43.6	- 2 06 42.2
136 12 30	- 2 08 56.5	- 2 08 55.3	- 2 08 54.0	- 2 08 52.7	- 2 08 51.3
136 15 00	- 2 11 05.5	- 2 11 04.3	- 2 11 03.1	- 2 11 01.8	- 2 11 00.4
136 17 30	- 2 13 14.5	- 2 13 13.3	- 2 13 12.1	- 2 13 10.9	- 2 13 09.6
136 20 00	- 2 15 23.5	- 2 15 22.4	- 2 15 21.2	- 2 15 20.0	- 2 15 18.7
136 22 30	- 2 17 32.5	- 2 17 31.5	- 2 17 30.3	- 2 17 29.1	- 2 17 27.9
136 25 00	- 2 19 41.6	- 2 19 40.5	- 2 19 39.4	- 2 19 38.3	- 2 19 37.1
136 27 30	- 2 21 50.6	- 2 21 49.6	- 2 21 48.5	- 2 21 47.4	- 2 21 46.2
136 30 00	- 2 23 59.7	- 2 23 58.7	- 2 23 57.7	- 2 23 56.6	- 2 23 55.4

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 40 00	59 42 30	59 45 00	59 47 30	59 50 00
134 00 00	1.0002262	1.0002375	1.0002490	1.0002606	1.0002725
134 02 30	1.0002187	1.0002299	1.0002413	1.0002528	1.0002646
134 05 00	1.0002114	1.0002224	1.0002337	1.0002451	1.0002568
134 07 30	1.0002041	1.0002150	1.0002262	1.0002375	1.0002490
134 10 00	1.0001969	1.0002077	1.0002187	1.0002300	1.0002414
134 12 30	1.0001898	1.0002005	1.0002114	1.0002225	1.0002338
134 15 00	1.0001828	1.0001934	1.0002042	1.0002151	1.0002263
134 17 30	1.0001759	1.0001864	1.0001970	1.0002079	1.0002189
134 20 00	1.0001691	1.0001794	1.0001900	1.0002007	1.0002116
134 22 30	1.0001624	1.0001726	1.0001830	1.0001936	1.0002044
134 25 00	1.0001557	1.0001658	1.0001761	1.0001866	1.0001973
134 27 30	1.0001491	1.0001591	1.0001693	1.0001797	1.0001902
134 30 00	1.0001427	1.0001525	1.0001626	1.0001728	1.0001833
134 32 30	1.0001363	1.0001460	1.0001560	1.0001661	1.0001764
134 35 00	1.0001300	1.0001396	1.0001494	1.0001594	1.0001696
134 37 30	1.0001238	1.0001333	1.0001430	1.0001529	1.0001629
134 40 00	1.0001177	1.0001270	1.0001366	1.0001464	1.0001563
134 42 30	1.0001116	1.0001209	1.0001303	1.0001400	1.0001498
134 45 00	1.0001057	1.0001148	1.0001241	1.0001337	1.0001434
134 47 30	1.0000998	1.0001088	1.0001180	1.0001274	1.0001370
134 50 00	1.0000941	1.0001030	1.0001120	1.0001213	1.0001308
134 52 30	1.0000884	1.0000971	1.0001061	1.0001153	1.0001246
134 55 00	1.0000828	1.0000914	1.0001003	1.0001093	1.0001185
134 57 30	1.0000773	1.0000858	1.0000945	1.0001034	1.0001125
135 00 00	1.0000719	1.0000803	1.0000888	1.0000976	1.0001066
135 02 30	1.0000665	1.0000748	1.0000833	1.0000919	1.0001008
135 05 00	1.0000613	1.0000694	1.0000778	1.0000863	1.0000951
135 07 30	1.0000561	1.0000641	1.0000724	1.0000808	1.0000894
135 10 00	1.0000511	1.0000589	1.0000670	1.0000753	1.0000838
135 12 30	1.0000461	1.0000538	1.0000618	1.0000700	1.0000784
135 15 00	1.0000412	1.0000488	1.0000567	1.0000647	1.0000730
135 17 30	1.0000363	1.0000439	1.0000516	1.0000595	1.0000677
135 20 00	1.0000316	1.0000390	1.0000466	1.0000544	1.0000624
135 22 30	1.0000270	1.0000342	1.0000417	1.0000494	1.0000573
135 25 00	1.0000224	1.0000296	1.0000369	1.0000445	1.0000522
135 27 30	1.0000179	1.0000250	1.0000322	1.0000396	1.0000473
135 30 00	1.0000135	1.0000204	1.0000276	1.0000349	1.0000424
135 32 30	1.0000092	1.0000160	1.0000230	1.0000302	1.0000376
135 35 00	1.0000050	1.0000117	1.0000185	1.0000256	1.0000329
135 37 30	1.0000009	1.0000074	1.0000142	1.0000211	1.0000282
135 40 00	0.9999968	1.0000032	1.0000099	1.0000167	1.0000237
135 42 30	0.9999929	0.9999992	1.0000056	1.0000123	1.0000192
135 45 00	0.9999890	0.9999952	1.0000015	1.0000081	1.0000148
135 47 30	0.9999852	0.9999912	0.9999975	1.0000039	1.0000105
135 50 00	0.9999815	0.9999874	0.9999935	0.9999998	1.0000063
135 52 30	0.9999779	0.9999836	0.9999896	0.9999958	1.0000022
135 55 00	0.9999743	0.9999800	0.9999858	0.9999919	0.9999982
135 57 30	0.9999709	0.9999764	0.9999821	0.9999881	0.9999942
136 00 00	0.9999675	0.9999729	0.9999785	0.9999843	0.9999903
136 02 30	0.9999642	0.9999695	0.9999750	0.9999806	0.9999865
136 05 00	0.9999610	0.9999661	0.9999715	0.9999771	0.9999828
136 07 30	0.9999579	0.9999629	0.9999681	0.9999735	0.9999792
136 10 00	0.9999548	0.9999597	0.9999648	0.9999701	0.9999756
136 12 30	0.9999519	0.9999566	0.9999616	0.9999668	0.9999722
136 15 00	0.9999490	0.9999536	0.9999585	0.9999635	0.9999688
136 17 30	0.9999462	0.9999507	0.9999554	0.9999604	0.9999655
136 20 00	0.9999435	0.9999479	0.9999525	0.9999573	0.9999623
136 22 30	0.9999409	0.9999451	0.9999496	0.9999543	0.9999592
136 25 00	0.9999383	0.9999425	0.9999468	0.9999513	0.9999561
136 27 30	0.9999359	0.9999399	0.9999441	0.9999485	0.9999531
136 30 00	0.9999335	0.9999374	0.9999414	0.9999457	0.9999503

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 40 00	59 42 30	59 45 00	59 47 30	59 50 00
136 30 00	- 2 23 59.7	- 2 23 58.7	- 2 23 57.7	- 2 23 56.6	- 2 23 55.4
136 32 30	- 2 26 08.8	- 2 26 07.8	- 2 26 06.8	- 2 26 05.8	- 2 26 04.7
136 35 00	- 2 28 17.9	- 2 28 16.9	- 2 28 16.0	- 2 28 15.0	- 2 28 13.9
136 37 30	- 2 30 27.0	- 2 30 26.1	- 2 30 25.2	- 2 30 24.2	- 2 30 23.1
136 40 00	- 2 32 36.1	- 2 32 35.2	- 2 32 34.3	- 2 32 33.4	- 2 32 32.4
136 42 30	- 2 34 45.2	- 2 34 44.4	- 2 34 43.5	- 2 34 42.6	- 2 34 41.6
136 45 00	- 2 36 54.4	- 2 36 53.6	- 2 36 52.7	- 2 36 51.9	- 2 36 50.9
136 47 30	- 2 39 03.5	- 2 39 02.8	- 2 39 02.0	- 2 39 01.1	- 2 39 00.2
136 50 00	- 2 41 12.7	- 2 41 12.0	- 2 41 11.2	- 2 41 10.4	- 2 41 09.5
136 52 30	- 2 43 21.9	- 2 43 21.2	- 2 43 20.5	- 2 43 19.7	- 2 43 18.8
136 55 00	- 2 45 31.1	- 2 45 30.4	- 2 45 29.7	- 2 45 29.0	- 2 45 28.2
136 57 30	- 2 47 40.3	- 2 47 39.7	- 2 47 39.0	- 2 47 38.3	- 2 47 37.5
137 00 00	- 2 49 49.5	- 2 49 48.9	- 2 49 48.3	- 2 49 47.6	- 2 49 46.9
137 02 30	- 2 51 58.8	- 2 51 58.2	- 2 51 57.6	- 2 51 57.0	- 2 51 56.2
137 05 00	- 2 54 08.0	- 2 54 07.5	- 2 54 06.9	- 2 54 06.3	- 2 54 05.6
137 07 30	- 2 56 17.3	- 2 56 16.8	- 2 56 16.3	- 2 56 15.7	- 2 56 15.0
137 10 00	- 2 58 26.6	- 2 58 26.1	- 2 58 25.6	- 2 58 25.1	- 2 58 24.4
137 12 30	- 3 00 35.9	- 3 00 35.4	- 3 00 35.0	- 3 00 34.4	- 3 00 33.9
137 15 00	- 3 02 45.2	- 3 02 44.8	- 3 02 44.3	- 3 02 43.9	- 3 02 43.3
137 17 30	- 3 04 54.5	- 3 04 54.1	- 3 04 53.7	- 3 04 53.3	- 3 04 52.8
137 20 00	- 3 07 03.8	- 3 07 03.5	- 3 07 03.1	- 3 07 02.7	- 3 07 02.2
137 22 30	- 3 09 13.2	- 3 09 12.9	- 3 09 12.5	- 3 09 12.1	- 3 09 11.7
137 25 00	- 3 11 22.5	- 3 11 22.3	- 3 11 22.0	- 3 11 21.6	- 3 11 21.2
137 27 30	- 3 13 31.9	- 3 13 31.7	- 3 13 31.4	- 3 13 31.1	- 3 13 30.7
137 30 00	- 3 15 41.3	- 3 15 41.1	- 3 15 40.9	- 3 15 40.6	- 3 15 40.2
137 32 30	- 3 17 50.7	- 3 17 50.5	- 3 17 50.3	- 3 17 50.1	- 3 17 49.8
137 35 00	- 3 20 00.1	- 3 19 60.0	- 3 19 59.8	- 3 19 59.6	- 3 19 59.3
137 37 30	- 3 22 09.6	- 3 22 09.5	- 3 22 09.3	- 3 22 09.1	- 3 22 08.9
137 40 00	- 3 24 19.0	- 3 24 18.9	- 3 24 18.8	- 3 24 18.7	- 3 24 18.4
137 42 30	- 3 26 28.5	- 3 26 28.4	- 3 26 28.3	- 3 26 28.2	- 3 26 28.0
137 45 00	- 3 28 37.9	- 3 28 37.9	- 3 28 37.9	- 3 28 37.8	- 3 28 37.6
137 47 30	- 3 30 47.4	- 3 30 47.5	- 3 30 47.4	- 3 30 47.4	- 3 30 47.2
137 50 00	- 3 32 56.9	- 3 32 57.0	- 3 32 57.0	- 3 32 57.0	- 3 32 56.9
137 52 30	- 3 35 06.4	- 3 35 06.5	- 3 35 06.6	- 3 35 06.6	- 3 35 06.5
137 55 00	- 3 37 16.0	- 3 37 16.1	- 3 37 16.2	- 3 37 16.2	- 3 37 16.2
137 57 30	- 3 39 25.5	- 3 39 25.7	- 3 39 25.8	- 3 39 25.8	- 3 39 25.8
138 00 00	- 3 41 35.1	- 3 41 35.2	- 3 41 35.4	- 3 41 35.5	- 3 41 35.5
138 02 30	- 3 43 44.6	- 3 43 44.8	- 3 43 45.0	- 3 43 45.1	- 3 43 45.2
138 05 00	- 3 45 54.2	- 3 45 54.5	- 3 45 54.7	- 3 45 54.8	- 3 45 54.9
138 07 30	- 3 48 03.8	- 3 48 04.1	- 3 48 04.3	- 3 48 04.5	- 3 48 04.6
138 10 00	- 3 50 13.4	- 3 50 13.7	- 3 50 14.0	- 3 50 14.2	- 3 50 14.4
138 12 30	- 3 52 23.0	- 3 52 23.4	- 3 52 23.7	- 3 52 23.9	- 3 52 24.1
138 15 00	- 3 54 32.7	- 3 54 33.1	- 3 54 33.4	- 3 54 33.7	- 3 54 33.9
138 17 30	- 3 56 42.3	- 3 56 42.7	- 3 56 43.1	- 3 56 43.4	- 3 56 43.7
138 20 00	- 3 58 52.0	- 3 58 52.4	- 3 58 52.8	- 3 58 53.2	- 3 58 53.5
138 22 30	- 4 01 01.7	- 4 01 02.2	- 4 01 02.6	- 4 01 02.9	- 4 01 03.3
138 25 00	- 4 03 11.4	- 4 03 11.9	- 4 03 12.3	- 4 03 12.7	- 4 03 13.1
138 27 30	- 4 05 21.1	- 4 05 21.6	- 4 05 22.1	- 4 05 22.5	- 4 05 22.9
138 30 00	- 4 07 30.8	- 4 07 31.4	- 4 07 31.9	- 4 07 32.3	- 4 07 32.8
138 32 30	- 4 09 40.5	- 4 09 41.1	- 4 09 41.7	- 4 09 42.2	- 4 09 42.6
138 35 00	- 4 11 50.3	- 4 11 50.9	- 4 11 51.5	- 4 11 52.0	- 4 11 52.5
138 37 30	- 4 14 00.0	- 4 14 00.7	- 4 14 01.3	- 4 14 01.9	- 4 14 02.4
138 40 00	- 4 16 09.8	- 4 16 10.5	- 4 16 11.2	- 4 16 11.7	- 4 16 12.3
138 42 30	- 4 18 19.6	- 4 18 20.3	- 4 18 21.0	- 4 18 21.6	- 4 18 22.2
138 45 00	- 4 20 29.4	- 4 20 30.2	- 4 20 30.9	- 4 20 31.5	- 4 20 32.1
138 47 30	- 4 22 39.2	- 4 22 40.0	- 4 22 40.8	- 4 22 41.4	- 4 22 42.1
138 50 00	- 4 24 49.1	- 4 24 49.9	- 4 24 50.7	- 4 24 51.4	- 4 24 52.0
138 52 30	- 4 26 58.9	- 4 26 59.8	- 4 27 00.6	- 4 27 01.3	- 4 27 02.0
138 55 00	- 4 29 08.8	- 4 29 09.7	- 4 29 10.5	- 4 29 11.3	- 4 29 12.0
138 57 30	- 4 31 18.7	- 4 31 19.6	- 4 31 20.4	- 4 31 21.2	- 4 31 22.0
139 00 00	- 4 33 28.6	- 4 33 29.5	- 4 33 30.4	- 4 33 31.2	- 4 33 32.0

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 40 00	59 42 30	59 45 00	59 47 30	59 50 00
136 30 00	0.9999335	0.9999374	0.9999414	0.9999457	0.9999503
136 32 30	0.9999312	0.9999349	0.9999389	0.9999431	0.9999474
136 35 00	0.9999290	0.9999326	0.9999364	0.9999405	0.9999447
136 37 30	0.9999269	0.9999303	0.9999340	0.9999380	0.9999421
136 40 00	0.9999248	0.9999282	0.9999317	0.9999355	0.9999395
136 42 30	0.9999228	0.9999261	0.9999295	0.9999332	0.9999370
136 45 00	0.9999209	0.9999240	0.9999274	0.9999309	0.9999346
136 47 30	0.9999191	0.9999221	0.9999253	0.9999287	0.9999323
136 50 00	0.9999174	0.9999203	0.9999233	0.9999266	0.9999301
136 52 30	0.9999158	0.9999185	0.9999214	0.9999246	0.9999279
136 55 00	0.9999142	0.9999168	0.9999196	0.9999226	0.9999259
136 57 30	0.9999127	0.9999152	0.9999179	0.9999208	0.9999239
137 00 00	0.9999113	0.9999137	0.9999162	0.9999190	0.9999219
137 02 30	0.9999100	0.9999122	0.9999146	0.9999173	0.9999201
137 05 00	0.9999088	0.9999108	0.9999131	0.9999156	0.9999183
137 07 30	0.9999076	0.9999096	0.9999117	0.9999141	0.9999167
137 10 00	0.9999065	0.9999084	0.9999104	0.9999126	0.9999151
137 12 30	0.9999055	0.9999072	0.9999091	0.9999112	0.9999136
137 15 00	0.9999046	0.9999062	0.9999079	0.9999099	0.9999121
137 17 30	0.9999038	0.9999052	0.9999068	0.9999087	0.9999108
137 20 00	0.9999030	0.9999043	0.9999058	0.9999076	0.9999095
137 22 30	0.9999024	0.9999035	0.9999049	0.9999065	0.9999083
137 25 00	0.9999018	0.9999028	0.9999040	0.9999055	0.9999072
137 27 30	0.9999012	0.9999021	0.9999033	0.9999046	0.9999061
137 30 00	0.9999008	0.9999016	0.9999026	0.9999038	0.9999052
137 32 30	0.9999004	0.9999011	0.9999019	0.9999030	0.9999043
137 35 00	0.9999002	0.9999007	0.9999014	0.9999023	0.9999035
137 37 30	0.9999000	0.9999003	0.9999009	0.9999017	0.9999028
137 40 00	0.9998998	0.9999001	0.9999005	0.9999012	0.9999021
137 42 30	0.9998998	0.9998999	0.9999002	0.9999008	0.9999016
137 45 00	0.9998998	0.9998998	0.9999000	0.9999004	0.9999011
137 47 30	0.9998999	0.9998998	0.9998999	0.9999001	0.9999007
137 50 00	0.9999001	0.9998998	0.9998998	0.9998999	0.9999003
137 52 30	0.9999004	0.9999000	0.9998998	0.9998998	0.9999001
137 55 00	0.9999008	0.9999002	0.9998999	0.9998998	0.9998999
137 57 30	0.9999012	0.9999005	0.9999000	0.9998998	0.9998998
138 00 00	0.9999017	0.9999009	0.9999003	0.9998999	0.9998998
138 02 30	0.9999023	0.9999013	0.9999006	0.9999001	0.9998998
138 05 00	0.9999029	0.9999018	0.9999010	0.9999003	0.9998999
138 07 30	0.9999037	0.9999024	0.9999015	0.9999007	0.9999001
138 10 00	0.9999045	0.9999031	0.9999020	0.9999011	0.9999004
138 12 30	0.9999054	0.9999039	0.9999026	0.9999016	0.9999008
138 15 00	0.9999063	0.9999047	0.9999033	0.9999022	0.9999012
138 17 30	0.9999074	0.9999056	0.9999041	0.9999028	0.9999017
138 20 00	0.9999085	0.9999066	0.9999050	0.9999035	0.9999023
138 22 30	0.9999097	0.9999077	0.9999059	0.9999043	0.9999030
138 25 00	0.9999110	0.9999088	0.9999069	0.9999052	0.9999037
138 27 30	0.9999123	0.9999100	0.9999080	0.9999062	0.9999046
138 30 00	0.9999138	0.9999113	0.9999091	0.9999072	0.9999055
138 32 30	0.9999153	0.9999127	0.9999104	0.9999083	0.9999064
138 35 00	0.9999168	0.9999142	0.9999117	0.9999095	0.9999075
138 37 30	0.9999185	0.9999157	0.9999131	0.9999107	0.9999086
138 40 00	0.9999202	0.9999173	0.9999145	0.9999121	0.9999098
138 42 30	0.9999220	0.9999189	0.9999161	0.9999135	0.9999111
138 45 00	0.9999239	0.9999207	0.9999177	0.9999149	0.9999124
138 47 30	0.9999259	0.9999225	0.9999194	0.9999165	0.9999138
138 50 00	0.9999279	0.9999244	0.9999212	0.9999181	0.9999153
138 52 30	0.9999300	0.9999264	0.9999230	0.9999198	0.9999169
138 55 00	0.9999322	0.9999284	0.9999249	0.9999216	0.9999185
138 57 30	0.9999345	0.9999306	0.9999269	0.9999235	0.9999203
139 00 00	0.9999368	0.9999328	0.9999290	0.9999254	0.9999221

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 40 00	59 42 30	59 45 00	59 47 30	59 50 00
139 00 00	- 4 33 28.6	- 4 33 29.5	- 4 33 30.4	- 4 33 31.2	- 4 33 32.0
139 02 30	- 4 35 38.5	- 4 35 39.4	- 4 35 40.4	- 4 35 41.2	- 4 35 42.0
139 05 00	- 4 37 48.4	- 4 37 49.4	- 4 37 50.3	- 4 37 51.2	- 4 37 52.1
139 07 30	- 4 39 58.3	- 4 39 59.3	- 4 40 00.3	- 4 40 01.2	- 4 40 02.1
139 10 00	- 4 42 08.3	- 4 42 09.3	- 4 42 10.3	- 4 42 11.3	- 4 42 12.2
139 12 30	- 4 44 18.2	- 4 44 19.3	- 4 44 20.4	- 4 44 21.3	- 4 44 22.3
139 15 00	- 4 46 28.2	- 4 46 29.3	- 4 46 30.4	- 4 46 31.4	- 4 46 32.4
139 17 30	- 4 48 38.2	- 4 48 39.3	- 4 48 40.4	- 4 48 41.5	- 4 48 42.5
139 20 00	- 4 50 48.2	- 4 50 49.4	- 4 50 50.5	- 4 50 51.6	- 4 50 52.6
139 22 30	- 4 52 58.2	- 4 52 59.4	- 4 53 00.6	- 4 53 01.7	- 4 53 02.7
139 25 00	- 4 55 08.2	- 4 55 09.5	- 4 55 10.7	- 4 55 11.8	- 4 55 12.9
139 27 30	- 4 57 18.3	- 4 57 19.6	- 4 57 20.8	- 4 57 21.9	- 4 57 23.1
139 30 00	- 4 59 28.4	- 4 59 29.7	- 4 59 30.9	- 4 59 32.1	- 4 59 33.2
139 32 30	- 5 01 38.4	- 5 01 39.8	- 5 01 41.0	- 5 01 42.3	- 5 01 43.4
139 35 00	- 5 03 48.5	- 5 03 49.9	- 5 03 51.2	- 5 03 52.4	- 5 03 53.6
139 37 30	- 5 05 58.6	- 5 06 00.0	- 5 06 01.4	- 5 06 02.6	- 5 06 03.9
139 40 00	- 5 08 08.7	- 5 08 10.2	- 5 08 11.5	- 5 08 12.8	- 5 08 14.1
139 42 30	- 5 10 18.9	- 5 10 20.3	- 5 10 21.7	- 5 10 23.1	- 5 10 24.4
139 45 00	- 5 12 29.0	- 5 12 30.5	- 5 12 31.9	- 5 12 33.3	- 5 12 34.6
139 47 30	- 5 14 39.2	- 5 14 40.7	- 5 14 42.2	- 5 14 43.6	- 5 14 44.9
139 50 00	- 5 16 49.4	- 5 16 50.9	- 5 16 52.4	- 5 16 53.8	- 5 16 55.2
139 52 30	- 5 18 59.6	- 5 19 01.1	- 5 19 02.6	- 5 19 04.1	- 5 19 05.5
139 55 00	- 5 21 09.8	- 5 21 11.4	- 5 21 12.9	- 5 21 14.4	- 5 21 15.8
139 57 30	- 5 23 20.0	- 5 23 21.6	- 5 23 23.2	- 5 23 24.7	- 5 23 26.2
140 00 00	- 5 25 30.2	- 5 25 31.9	- 5 25 33.5	- 5 25 35.0	- 5 25 36.5
140 02 30	- 5 27 40.5	- 5 27 42.1	- 5 27 43.8	- 5 27 45.4	- 5 27 46.9
140 05 00	- 5 29 50.7	- 5 29 52.4	- 5 29 54.1	- 5 29 55.7	- 5 29 57.3
140 07 30	- 5 32 01.0	- 5 32 02.7	- 5 32 04.4	- 5 32 06.1	- 5 32 07.6
140 10 00	- 5 34 11.3	- 5 34 13.1	- 5 34 14.8	- 5 34 16.4	- 5 34 18.1
140 12 30	- 5 36 21.6	- 5 36 23.4	- 5 36 25.1	- 5 36 26.8	- 5 36 28.5
140 15 00	- 5 38 31.9	- 5 38 33.7	- 5 38 35.5	- 5 38 37.2	- 5 38 38.9
140 17 30	- 5 40 42.3	- 5 40 44.1	- 5 40 45.9	- 5 40 47.7	- 5 40 49.4
140 20 00	- 5 42 52.6	- 5 42 54.5	- 5 42 56.3	- 5 42 58.1	- 5 42 59.8
140 22 30	- 5 45 03.0	- 5 45 04.9	- 5 45 06.7	- 5 45 08.6	- 5 45 10.3
140 25 00	- 5 47 13.3	- 5 47 15.3	- 5 47 17.2	- 5 47 19.0	- 5 47 20.8
140 27 30	- 5 49 23.7	- 5 49 25.7	- 5 49 27.6	- 5 49 29.5	- 5 49 31.3
140 30 00	- 5 51 34.1	- 5 51 36.1	- 5 51 38.1	- 5 51 40.0	- 5 51 41.8
140 32 30	- 5 53 44.6	- 5 53 46.6	- 5 53 48.6	- 5 53 50.5	- 5 53 52.4
140 35 00	- 5 55 55.0	- 5 55 57.1	- 5 55 59.1	- 5 56 01.0	- 5 56 02.9
140 37 30	- 5 58 05.5	- 5 58 07.5	- 5 58 09.6	- 5 58 11.6	- 5 58 13.5
140 40 00	- 6 00 15.9	- 6 00 18.0	- 6 00 20.1	- 6 00 22.1	- 6 00 24.1
140 42 30	- 6 02 26.4	- 6 02 28.5	- 6 02 30.6	- 6 02 32.7	- 6 02 34.7
140 45 00	- 6 04 36.9	- 6 04 39.1	- 6 04 41.2	- 6 04 43.3	- 6 04 45.3
140 47 30	- 6 06 47.4	- 6 06 49.6	- 6 06 51.8	- 6 06 53.8	- 6 06 55.9
140 50 00	- 6 08 57.9	- 6 09 00.2	- 6 09 02.3	- 6 09 04.5	- 6 09 06.5
140 52 30	- 6 11 08.5	- 6 11 10.7	- 6 11 12.9	- 6 11 15.1	- 6 11 17.2
140 55 00	- 6 13 19.0	- 6 13 21.3	- 6 13 23.5	- 6 13 25.7	- 6 13 27.8
140 57 30	- 6 15 29.6	- 6 15 31.9	- 6 15 34.2	- 6 15 36.4	- 6 15 38.5
141 00 00	- 6 17 40.2	- 6 17 42.5	- 6 17 44.8	- 6 17 47.0	- 6 17 49.2
141 02 30	- 6 19 50.8	- 6 19 53.1	- 6 19 55.5	- 6 19 57.7	- 6 19 59.9
141 05 00	- 6 22 01.4	- 6 22 03.8	- 6 22 06.1	- 6 22 08.4	- 6 22 10.6
141 07 30	- 6 24 12.0	- 6 24 14.4	- 6 24 16.8	- 6 24 19.1	- 6 24 21.4
141 10 00	- 6 26 22.7	- 6 26 25.1	- 6 26 27.5	- 6 26 29.8	- 6 26 32.1
141 12 30	- 6 28 33.3	- 6 28 35.8	- 6 28 38.2	- 6 28 40.6	- 6 28 42.9
141 15 00	- 6 30 44.0	- 6 30 46.5	- 6 30 48.9	- 6 30 51.3	- 6 30 53.7
141 17 30	- 6 32 54.7	- 6 32 57.2	- 6 32 59.7	- 6 33 02.1	- 6 33 04.5
141 20 00	- 6 35 05.4	- 6 35 07.9	- 6 35 10.4	- 6 35 12.9	- 6 35 15.3
141 22 30	- 6 37 16.1	- 6 37 18.7	- 6 37 21.2	- 6 37 23.7	- 6 37 26.1
141 25 00	- 6 39 26.8	- 6 39 29.4	- 6 39 32.0	- 6 39 34.5	- 6 39 37.0
141 27 30	- 6 41 37.6	- 6 41 40.2	- 6 41 42.8	- 6 41 45.3	- 6 41 47.8
141 30 00	- 6 43 48.3	- 6 43 51.0	- 6 43 53.6	- 6 43 56.2	- 6 43 58.7

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 40 00	59 42 30	59 45 00	59 47 30	59 50 00
139 00 00	0.9999368	0.9999328	0.9999290	0.9999254	0.9999221
139 02 30	0.9999392	0.9999350	0.9999311	0.9999274	0.9999239
139 05 00	0.9999417	0.9999374	0.9999333	0.9999295	0.9999259
139 07 30	0.9999442	0.9999398	0.9999356	0.9999316	0.9999279
139 10 00	0.9999469	0.9999423	0.9999380	0.9999339	0.9999300
139 12 30	0.9999496	0.9999449	0.9999404	0.9999362	0.9999321
139 15 00	0.9999524	0.9999475	0.9999429	0.9999385	0.9999344
139 17 30	0.9999552	0.9999502	0.9999455	0.9999410	0.9999367
139 20 00	0.9999581	0.9999530	0.9999481	0.9999435	0.9999391
139 22 30	0.9999612	0.9999559	0.9999509	0.9999461	0.9999415
139 25 00	0.9999642	0.9999588	0.9999537	0.9999488	0.9999441
139 27 30	0.9999674	0.9999618	0.9999566	0.9999515	0.9999467
139 30 00	0.9999706	0.9999649	0.9999595	0.9999543	0.9999494
139 32 30	0.9999739	0.9999681	0.9999625	0.9999572	0.9999521
139 35 00	0.9999773	0.9999713	0.9999656	0.9999602	0.9999549
139 37 30	0.9999807	0.9999746	0.9999688	0.9999632	0.9999578
139 40 00	0.9999842	0.9999780	0.9999720	0.9999663	0.9999608
139 42 30	0.9999878	0.9999815	0.9999753	0.9999695	0.9999638
139 45 00	0.9999915	0.9999850	0.9999787	0.9999727	0.9999669
139 47 30	0.9999952	0.9999886	0.9999822	0.9999760	0.9999701
139 50 00	0.9999990	0.9999922	0.9999857	0.9999794	0.9999734
139 52 30	1.0000029	0.9999960	0.9999893	0.9999829	0.9999767
139 55 00	1.0000068	0.9999998	0.9999930	0.9999864	0.9999801
139 57 30	1.0000108	1.0000037	0.9999967	0.9999900	0.9999836
140 00 00	1.0000149	1.0000076	1.0000005	0.9999937	0.9999871
140 02 30	1.0000191	1.0000116	1.0000044	0.9999975	0.9999907
140 05 00	1.0000233	1.0000157	1.0000084	1.0000013	0.9999944
140 07 30	1.0000276	1.0000199	1.0000124	1.0000052	0.9999982
140 10 00	1.0000320	1.0000241	1.0000165	1.0000091	1.0000020
140 12 30	1.0000365	1.0000285	1.0000207	1.0000132	1.0000059
140 15 00	1.0000410	1.0000328	1.0000249	1.0000173	1.0000099
140 17 30	1.0000456	1.0000373	1.0000293	1.0000215	1.0000139
140 20 00	1.0000502	1.0000418	1.0000336	1.0000257	1.0000180
140 22 30	1.0000550	1.0000464	1.0000381	1.0000300	1.0000222
140 25 00	1.0000598	1.0000511	1.0000426	1.0000344	1.0000264
140 27 30	1.0000646	1.0000558	1.0000472	1.0000389	1.0000307
140 30 00	1.0000696	1.0000606	1.0000519	1.0000434	1.0000351
140 32 30	1.0000746	1.0000655	1.0000566	1.0000480	1.0000396
140 35 00	1.0000797	1.0000704	1.0000614	1.0000526	1.0000441
140 37 30	1.0000848	1.0000754	1.0000663	1.0000574	1.0000487
140 40 00	1.0000901	1.0000805	1.0000712	1.0000622	1.0000534
140 42 30	1.0000954	1.0000857	1.0000762	1.0000671	1.0000581
140 45 00	1.0001007	1.0000909	1.0000813	1.0000720	1.0000629
140 47 30	1.0001061	1.0000962	1.0000865	1.0000770	1.0000678
140 50 00	1.0001116	1.0001015	1.0000917	1.0000821	1.0000727
140 52 30	1.0001172	1.0001070	1.0000970	1.0000872	1.0000777
140 55 00	1.0001229	1.0001125	1.0001023	1.0000925	1.0000828
140 57 30	1.0001286	1.0001180	1.0001078	1.0000977	1.0000880
141 00 00	1.0001343	1.0001237	1.0001133	1.0001031	1.0000932
141 02 30	1.0001402	1.0001294	1.0001188	1.0001085	1.0000985
141 05 00	1.0001461	1.0001351	1.0001245	1.0001140	1.0001038
141 07 30	1.0001521	1.0001410	1.0001302	1.0001196	1.0001092
141 10 00	1.0001581	1.0001469	1.0001359	1.0001252	1.0001147
141 12 30	1.0001642	1.0001529	1.0001418	1.0001309	1.0001203
141 15 00	1.0001704	1.0001589	1.0001477	1.0001367	1.0001259
141 17 30	1.0001767	1.0001650	1.0001536	1.0001425	1.0001316
141 20 00	1.0001830	1.0001712	1.0001597	1.0001484	1.0001374
141 22 30	1.0001894	1.0001775	1.0001658	1.0001544	1.0001432
141 25 00	1.0001958	1.0001838	1.0001720	1.0001604	1.0001491
141 27 30	1.0002024	1.0001902	1.0001782	1.0001665	1.0001550
141 30 00	1.0002090	1.0001966	1.0001845	1.0001726	1.0001610

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 50 00	59 52 30	59 55 00	59 57 30	60 00 00
134 00 00	- 0 15 06.3	- 0 15 03.0	- 0 14 59.6	- 0 14 56.2	- 0 14 52.8
134 02 30	- 0 17 14.7	- 0 17 11.4	- 0 17 08.1	- 0 17 04.8	- 0 17 01.4
134 05 00	- 0 19 23.2	- 0 19 19.9	- 0 19 16.7	- 0 19 13.4	- 0 19 10.0
134 07 30	- 0 21 31.6	- 0 21 28.5	- 0 21 25.2	- 0 21 21.9	- 0 21 18.6
134 10 00	- 0 23 40.1	- 0 23 37.0	- 0 23 33.8	- 0 23 30.5	- 0 23 27.2
134 12 30	- 0 25 48.6	- 0 25 45.5	- 0 25 42.3	- 0 25 39.1	- 0 25 35.9
134 15 00	- 0 27 57.1	- 0 27 54.1	- 0 27 50.9	- 0 27 47.8	- 0 27 44.5
134 17 30	- 0 30 05.7	- 0 30 02.6	- 0 29 59.5	- 0 29 56.4	- 0 29 53.2
134 20 00	- 0 32 14.2	- 0 32 11.2	- 0 32 08.1	- 0 32 05.0	- 0 32 01.9
134 22 30	- 0 34 22.7	- 0 34 19.8	- 0 34 16.8	- 0 34 13.7	- 0 34 10.6
134 25 00	- 0 36 31.3	- 0 36 28.4	- 0 36 25.4	- 0 36 22.4	- 0 36 19.3
134 27 30	- 0 38 39.9	- 0 38 37.0	- 0 38 34.0	- 0 38 31.0	- 0 38 28.0
134 30 00	- 0 40 48.5	- 0 40 45.6	- 0 40 42.7	- 0 40 39.7	- 0 40 36.7
134 32 30	- 0 42 57.0	- 0 42 54.2	- 0 42 51.4	- 0 42 48.4	- 0 42 45.4
134 35 00	- 0 45 05.7	- 0 45 02.9	- 0 45 00.0	- 0 44 57.1	- 0 44 54.2
134 37 30	- 0 47 14.3	- 0 47 11.5	- 0 47 08.7	- 0 47 05.9	- 0 47 03.0
134 40 00	- 0 49 22.9	- 0 49 20.2	- 0 49 17.4	- 0 49 14.6	- 0 49 11.7
134 42 30	- 0 51 31.6	- 0 51 28.9	- 0 51 26.2	- 0 51 23.4	- 0 51 20.5
134 45 00	- 0 53 40.2	- 0 53 37.6	- 0 53 34.9	- 0 53 32.1	- 0 53 29.3
134 47 30	- 0 55 48.9	- 0 55 46.3	- 0 55 43.6	- 0 55 40.9	- 0 55 38.1
134 50 00	- 0 57 57.6	- 0 57 55.0	- 0 57 52.4	- 0 57 49.7	- 0 57 47.0
134 52 30	- 1 00 06.3	- 1 00 03.7	- 1 00 01.2	- 0 59 58.5	- 0 59 55.8
134 55 00	- 1 02 15.0	- 1 02 12.5	- 1 02 09.9	- 1 02 07.3	- 1 02 04.7
134 57 30	- 1 04 23.7	- 1 04 21.2	- 1 04 18.7	- 1 04 16.2	- 1 04 13.5
135 00 00	- 1 06 32.4	- 1 06 30.0	- 1 06 27.5	- 1 06 25.0	- 1 06 22.4
135 02 30	- 1 08 41.2	- 1 08 38.8	- 1 08 36.4	- 1 08 33.8	- 1 08 31.3
135 05 00	- 1 10 50.0	- 1 10 47.6	- 1 10 45.2	- 1 10 42.7	- 1 10 40.2
135 07 30	- 1 12 58.7	- 1 12 56.4	- 1 12 54.0	- 1 12 51.6	- 1 12 49.1
135 10 00	- 1 15 07.5	- 1 15 05.2	- 1 15 02.9	- 1 15 00.5	- 1 14 58.0
135 12 30	- 1 17 16.3	- 1 17 14.1	- 1 17 11.7	- 1 17 09.4	- 1 17 07.0
135 15 00	- 1 19 25.1	- 1 19 22.9	- 1 19 20.6	- 1 19 18.3	- 1 19 15.9
135 17 30	- 1 21 33.9	- 1 21 31.8	- 1 21 29.5	- 1 21 27.2	- 1 21 24.9
135 20 00	- 1 23 42.8	- 1 23 40.6	- 1 23 38.4	- 1 23 36.2	- 1 23 33.9
135 22 30	- 1 25 51.6	- 1 25 49.5	- 1 25 47.4	- 1 25 45.1	- 1 25 42.9
135 25 00	- 1 28 00.5	- 1 27 58.4	- 1 27 56.3	- 1 27 54.1	- 1 27 51.9
135 27 30	- 1 30 09.4	- 1 30 07.3	- 1 30 05.2	- 1 30 03.1	- 1 30 00.9
135 30 00	- 1 32 18.3	- 1 32 16.2	- 1 32 14.2	- 1 32 12.1	- 1 32 09.9
135 32 30	- 1 34 27.2	- 1 34 25.2	- 1 34 23.2	- 1 34 21.1	- 1 34 18.9
135 35 00	- 1 36 36.1	- 1 36 34.1	- 1 36 32.1	- 1 36 30.1	- 1 36 28.0
135 37 30	- 1 38 45.0	- 1 38 43.1	- 1 38 41.1	- 1 38 39.1	- 1 38 37.1
135 40 00	- 1 40 53.9	- 1 40 52.1	- 1 40 50.1	- 1 40 48.2	- 1 40 46.1
135 42 30	- 1 43 02.9	- 1 43 01.1	- 1 42 59.2	- 1 42 57.2	- 1 42 55.2
135 45 00	- 1 45 11.9	- 1 45 10.1	- 1 45 08.2	- 1 45 06.3	- 1 45 04.3
135 47 30	- 1 47 20.8	- 1 47 19.1	- 1 47 17.2	- 1 47 15.4	- 1 47 13.4
135 50 00	- 1 49 29.8	- 1 49 28.1	- 1 49 26.3	- 1 49 24.5	- 1 49 22.6
135 52 30	- 1 51 38.8	- 1 51 37.1	- 1 51 35.4	- 1 51 33.6	- 1 51 31.7
135 55 00	- 1 53 47.8	- 1 53 46.2	- 1 53 44.5	- 1 53 42.7	- 1 53 40.9
135 57 30	- 1 55 56.9	- 1 55 55.2	- 1 55 53.6	- 1 55 51.8	- 1 55 50.0
136 00 00	- 1 58 05.9	- 1 58 04.3	- 1 58 02.7	- 1 58 01.0	- 1 57 59.2
136 02 30	- 2 00 15.0	- 2 00 13.4	- 2 00 11.8	- 2 00 10.1	- 2 00 08.4
136 05 00	- 2 02 24.0	- 2 02 22.5	- 2 02 20.9	- 2 02 19.3	- 2 02 17.6
136 07 30	- 2 04 33.1	- 2 04 31.6	- 2 04 30.1	- 2 04 28.5	- 2 04 26.8
136 10 00	- 2 06 42.2	- 2 06 40.8	- 2 06 39.2	- 2 06 37.7	- 2 06 36.0
136 12 30	- 2 08 51.3	- 2 08 49.9	- 2 08 48.4	- 2 08 46.9	- 2 08 45.3
136 15 00	- 2 11 00.4	- 2 10 59.1	- 2 10 57.6	- 2 10 56.1	- 2 10 54.5
136 17 30	- 2 13 09.6	- 2 13 08.2	- 2 13 06.8	- 2 13 05.3	- 2 13 03.8
136 20 00	- 2 15 18.7	- 2 15 17.4	- 2 15 16.0	- 2 15 14.6	- 2 15 13.1
136 22 30	- 2 17 27.9	- 2 17 26.6	- 2 17 25.2	- 2 17 23.8	- 2 17 22.4
136 25 00	- 2 19 37.1	- 2 19 35.8	- 2 19 34.5	- 2 19 33.1	- 2 19 31.7
136 27 30	- 2 21 46.2	- 2 21 45.0	- 2 21 43.7	- 2 21 42.4	- 2 21 41.0
136 30 00	- 2 23 55.4	- 2 23 54.3	- 2 23 53.0	- 2 23 51.7	- 2 23 50.4

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 50 00	59 52 30	59 55 00	59 57 30	60 00 00
134 00 00	1.0002725	1.0002846	1.0002968	1.0003093	1.0003219
134 02 30	1.0002646	1.0002765	1.0002887	1.0003010	1.0003135
134 05 00	1.0002568	1.0002686	1.0002806	1.0002928	1.0003052
134 07 30	1.0002490	1.0002607	1.0002726	1.0002847	1.0002970
134 10 00	1.0002414	1.0002529	1.0002647	1.0002767	1.0002889
134 12 30	1.0002338	1.0002453	1.0002569	1.0002688	1.0002808
134 15 00	1.0002263	1.0002377	1.0002492	1.0002610	1.0002729
134 17 30	1.0002189	1.0002301	1.0002416	1.0002532	1.0002650
134 20 00	1.0002116	1.0002227	1.0002340	1.0002455	1.0002572
134 22 30	1.0002044	1.0002154	1.0002266	1.0002380	1.0002495
134 25 00	1.0001973	1.0002081	1.0002192	1.0002305	1.0002419
134 27 30	1.0001902	1.0002010	1.0002119	1.0002231	1.0002344
134 30 00	1.0001833	1.0001939	1.0002047	1.0002158	1.0002270
134 32 30	1.0001764	1.0001869	1.0001976	1.0002085	1.0002196
134 35 00	1.0001696	1.0001800	1.0001906	1.0002014	1.0002124
134 37 30	1.0001629	1.0001732	1.0001837	1.0001944	1.0002052
134 40 00	1.0001563	1.0001665	1.0001768	1.0001874	1.0001981
134 42 30	1.0001498	1.0001598	1.0001701	1.0001805	1.0001911
134 45 00	1.0001434	1.0001533	1.0001634	1.0001737	1.0001842
134 47 30	1.0001370	1.0001468	1.0001568	1.0001670	1.0001774
134 50 00	1.0001308	1.0001405	1.0001503	1.0001604	1.0001707
134 52 30	1.0001246	1.0001342	1.0001439	1.0001539	1.0001640
134 55 00	1.0001185	1.0001280	1.0001376	1.0001474	1.0001575
134 57 30	1.0001125	1.0001218	1.0001314	1.0001411	1.0001510
135 00 00	1.0001066	1.0001158	1.0001252	1.0001348	1.0001446
135 02 30	1.0001008	1.0001099	1.0001191	1.0001286	1.0001383
135 05 00	1.0000951	1.0001040	1.0001132	1.0001225	1.0001320
135 07 30	1.0000894	1.0000982	1.0001073	1.0001165	1.0001259
135 10 00	1.0000838	1.0000925	1.0001014	1.0001105	1.0001199
135 12 30	1.0000784	1.0000869	1.0000957	1.0001047	1.0001139
135 15 00	1.0000730	1.0000814	1.0000901	1.0000989	1.0001080
135 17 30	1.0000677	1.0000760	1.0000845	1.0000933	1.0001022
135 20 00	1.0000624	1.0000706	1.0000791	1.0000877	1.0000965
135 22 30	1.0000573	1.0000654	1.0000737	1.0000822	1.0000909
135 25 00	1.0000522	1.0000602	1.0000684	1.0000767	1.0000853
135 27 30	1.0000473	1.0000551	1.0000632	1.0000714	1.0000799
135 30 00	1.0000424	1.0000501	1.0000580	1.0000661	1.0000745
135 32 30	1.0000376	1.0000452	1.0000530	1.0000610	1.0000692
135 35 00	1.0000329	1.0000403	1.0000480	1.0000559	1.0000640
135 37 30	1.0000282	1.0000356	1.0000431	1.0000509	1.0000589
135 40 00	1.0000237	1.0000309	1.0000383	1.0000460	1.0000538
135 42 30	1.0000192	1.0000263	1.0000336	1.0000411	1.0000489
135 45 00	1.0000148	1.0000218	1.0000290	1.0000364	1.0000440
135 47 30	1.0000105	1.0000174	1.0000245	1.0000317	1.0000392
135 50 00	1.0000063	1.0000131	1.0000200	1.0000271	1.0000345
135 52 30	1.0000022	1.0000088	1.0000156	1.0000226	1.0000299
135 55 00	0.9999982	1.0000046	1.0000113	1.0000182	1.0000253
135 57 30	0.9999942	1.0000006	1.0000071	1.0000139	1.0000209
136 00 00	0.9999903	0.9999966	1.0000030	1.0000096	1.0000165
136 02 30	0.9999865	0.9999926	0.9999989	1.0000055	1.0000122
136 05 00	0.9999828	0.9999888	0.9999950	1.0000014	1.0000080
136 07 30	0.9999792	0.9999850	0.9999911	0.9999974	1.0000039
136 10 00	0.9999756	0.9999814	0.9999873	0.9999935	0.9999998
136 12 30	0.9999722	0.9999778	0.9999836	0.9999896	0.9999958
136 15 00	0.9999688	0.9999743	0.9999800	0.9999859	0.9999920
136 17 30	0.9999655	0.9999709	0.9999764	0.9999822	0.9999882
136 20 00	0.9999623	0.9999675	0.9999729	0.9999786	0.9999844
136 22 30	0.9999592	0.9999643	0.9999696	0.9999751	0.9999808
136 25 00	0.9999561	0.9999611	0.9999663	0.9999717	0.9999773
136 27 30	0.9999531	0.9999580	0.9999630	0.9999683	0.9999738
136 30 00	0.9999503	0.9999550	0.9999599	0.9999650	0.9999704

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 50 00	59 52 30	59 55 00	59 57 30	60 00 00
136 30 00	- 2 23 55.4	- 2 23 54.3	- 2 23 53.0	- 2 23 51.7	- 2 23 50.4
136 32 30	- 2 26 04.7	- 2 26 03.5	- 2 26 02.3	- 2 26 01.0	- 2 25 59.7
136 35 00	- 2 28 13.9	- 2 28 12.8	- 2 28 11.6	- 2 28 10.3	- 2 28 09.1
136 37 30	- 2 30 23.1	- 2 30 22.0	- 2 30 20.9	- 2 30 19.7	- 2 30 18.4
136 40 00	- 2 32 32.4	- 2 32 31.3	- 2 32 30.2	- 2 32 29.0	- 2 32 27.8
136 42 30	- 2 34 41.6	- 2 34 40.6	- 2 34 39.5	- 2 34 38.4	- 2 34 37.2
136 45 00	- 2 36 50.9	- 2 36 49.9	- 2 36 48.9	- 2 36 47.8	- 2 36 46.6
136 47 30	- 2 39 00.2	- 2 38 59.3	- 2 38 58.2	- 2 38 57.2	- 2 38 56.1
136 50 00	- 2 41 09.5	- 2 41 08.6	- 2 41 07.6	- 2 41 06.6	- 2 41 05.5
136 52 30	- 2 43 18.8	- 2 43 17.9	- 2 43 17.0	- 2 43 16.0	- 2 43 14.9
136 55 00	- 2 45 28.2	- 2 45 27.3	- 2 45 26.4	- 2 45 25.4	- 2 45 24.4
136 57 30	- 2 47 37.5	- 2 47 36.7	- 2 47 35.8	- 2 47 34.9	- 2 47 33.9
137 00 00	- 2 49 46.9	- 2 49 46.1	- 2 49 45.2	- 2 49 44.3	- 2 49 43.4
137 02 30	- 2 51 56.2	- 2 51 55.5	- 2 51 54.7	- 2 51 53.8	- 2 51 52.9
137 05 00	- 2 54 05.6	- 2 54 04.9	- 2 54 04.1	- 2 54 03.3	- 2 54 02.4
137 07 30	- 2 56 15.0	- 2 56 14.3	- 2 56 13.6	- 2 56 12.8	- 2 56 11.9
137 10 00	- 2 58 24.4	- 2 58 23.8	- 2 58 23.1	- 2 58 22.3	- 2 58 21.5
137 12 30	- 3 00 33.9	- 3 00 33.2	- 3 00 32.6	- 3 00 31.8	- 3 00 31.0
137 15 00	- 3 02 43.3	- 3 02 42.7	- 3 02 42.1	- 3 02 41.3	- 3 02 40.6
137 17 30	- 3 04 52.8	- 3 04 52.2	- 3 04 51.6	- 3 04 50.9	- 3 04 50.2
137 20 00	- 3 07 02.2	- 3 07 01.7	- 3 07 01.1	- 3 07 00.5	- 3 06 59.8
137 22 30	- 3 09 11.7	- 3 09 11.2	- 3 09 10.6	- 3 09 10.0	- 3 09 09.4
137 25 00	- 3 11 21.2	- 3 11 20.7	- 3 11 20.2	- 3 11 19.6	- 3 11 19.0
137 27 30	- 3 13 30.7	- 3 13 30.3	- 3 13 29.8	- 3 13 29.2	- 3 13 28.6
137 30 00	- 3 15 40.2	- 3 15 39.8	- 3 15 39.4	- 3 15 38.8	- 3 15 38.3
137 32 30	- 3 17 49.8	- 3 17 49.4	- 3 17 49.0	- 3 17 48.5	- 3 17 47.9
137 35 00	- 3 19 59.3	- 3 19 59.0	- 3 19 58.6	- 3 19 58.1	- 3 19 57.6
137 37 30	- 3 22 08.9	- 3 22 08.6	- 3 22 08.2	- 3 22 07.8	- 3 22 07.3
137 40 00	- 3 24 18.4	- 3 24 18.2	- 3 24 17.8	- 3 24 17.4	- 3 24 17.0
137 42 30	- 3 26 28.0	- 3 26 27.8	- 3 26 27.5	- 3 26 27.1	- 3 26 26.7
137 45 00	- 3 28 37.6	- 3 28 37.4	- 3 28 37.1	- 3 28 36.8	- 3 28 36.4
137 47 30	- 3 30 47.2	- 3 30 47.1	- 3 30 46.8	- 3 30 46.5	- 3 30 46.2
137 50 00	- 3 32 56.9	- 3 32 56.7	- 3 32 56.5	- 3 32 56.3	- 3 32 55.9
137 52 30	- 3 35 06.5	- 3 35 06.4	- 3 35 06.2	- 3 35 06.0	- 3 35 05.7
137 55 00	- 3 37 16.2	- 3 37 16.1	- 3 37 15.9	- 3 37 15.7	- 3 37 15.5
137 57 30	- 3 39 25.8	- 3 39 25.8	- 3 39 25.7	- 3 39 25.5	- 3 39 25.3
138 00 00	- 3 41 35.5	- 3 41 35.5	- 3 41 35.4	- 3 41 35.3	- 3 41 35.1
138 02 30	- 3 43 45.2	- 3 43 45.2	- 3 43 45.2	- 3 43 45.1	- 3 43 44.9
138 05 00	- 3 45 54.9	- 3 45 55.0	- 3 45 54.9	- 3 45 54.9	- 3 45 54.8
138 07 30	- 3 48 04.6	- 3 48 04.7	- 3 48 04.7	- 3 48 04.7	- 3 48 04.6
138 10 00	- 3 50 14.4	- 3 50 14.5	- 3 50 14.5	- 3 50 14.5	- 3 50 14.5
138 12 30	- 3 52 24.1	- 3 52 24.3	- 3 52 24.3	- 3 52 24.4	- 3 52 24.3
138 15 00	- 3 54 33.9	- 3 54 34.1	- 3 54 34.2	- 3 54 34.2	- 3 54 34.2
138 17 30	- 3 56 43.7	- 3 56 43.9	- 3 56 44.0	- 3 56 44.1	- 3 56 44.1
138 20 00	- 3 58 53.5	- 3 58 53.7	- 3 58 53.9	- 3 58 54.0	- 3 58 54.1
138 22 30	- 4 01 03.3	- 4 01 03.5	- 4 01 03.7	- 4 01 03.9	- 4 01 04.0
138 25 00	- 4 03 13.1	- 4 03 13.4	- 4 03 13.6	- 4 03 13.8	- 4 03 13.9
138 27 30	- 4 05 22.9	- 4 05 23.2	- 4 05 23.5	- 4 05 23.7	- 4 05 23.9
138 30 00	- 4 07 32.8	- 4 07 33.1	- 4 07 33.4	- 4 07 33.7	- 4 07 33.9
138 32 30	- 4 09 42.6	- 4 09 43.0	- 4 09 43.3	- 4 09 43.6	- 4 09 43.8
138 35 00	- 4 11 52.5	- 4 11 52.9	- 4 11 53.3	- 4 11 53.6	- 4 11 53.8
138 37 30	- 4 14 02.4	- 4 14 02.8	- 4 14 03.2	- 4 14 03.6	- 4 14 03.8
138 40 00	- 4 16 12.3	- 4 16 12.8	- 4 16 13.2	- 4 16 13.6	- 4 16 13.9
138 42 30	- 4 18 22.2	- 4 18 22.7	- 4 18 23.2	- 4 18 23.6	- 4 18 23.9
138 45 00	- 4 20 32.1	- 4 20 32.7	- 4 20 33.2	- 4 20 33.6	- 4 20 34.0
138 47 30	- 4 22 42.1	- 4 22 42.6	- 4 22 43.2	- 4 22 43.6	- 4 22 44.0
138 50 00	- 4 24 52.0	- 4 24 52.6	- 4 24 53.2	- 4 24 53.7	- 4 24 54.1
138 52 30	- 4 27 02.0	- 4 27 02.6	- 4 27 03.2	- 4 27 03.7	- 4 27 04.2
138 55 00	- 4 29 12.0	- 4 29 12.6	- 4 29 13.3	- 4 29 13.8	- 4 29 14.3
138 57 30	- 4 31 22.0	- 4 31 22.7	- 4 31 23.3	- 4 31 23.9	- 4 31 24.4
139 00 00	- 4 33 32.0	- 4 33 32.7	- 4 33 33.4	- 4 33 34.0	- 4 33 34.6

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 50 00	59 52 30	59 55 00	59 57 30	60 00 00
136 30 00	0.9999503	0.9999550	0.9999599	0.9999650	0.9999704
136 32 30	0.9999474	0.9999520	0.9999568	0.9999619	0.9999671
136 35 00	0.9999447	0.9999492	0.9999539	0.9999587	0.9999639
136 37 30	0.9999421	0.9999464	0.9999510	0.9999557	0.9999607
136 40 00	0.9999395	0.9999437	0.9999481	0.9999528	0.9999576
136 42 30	0.9999370	0.9999411	0.9999454	0.9999499	0.9999546
136 45 00	0.9999346	0.9999386	0.9999428	0.9999471	0.9999517
136 47 30	0.9999323	0.9999361	0.9999402	0.9999444	0.9999489
136 50 00	0.9999301	0.9999338	0.9999377	0.9999418	0.9999462
136 52 30	0.9999279	0.9999315	0.9999353	0.9999393	0.9999435
136 55 00	0.9999259	0.9999293	0.9999330	0.9999368	0.9999409
136 57 30	0.9999239	0.9999272	0.9999307	0.9999345	0.9999384
137 00 00	0.9999219	0.9999251	0.9999285	0.9999322	0.9999360
137 02 30	0.9999201	0.9999232	0.9999264	0.9999299	0.9999336
137 05 00	0.9999183	0.9999213	0.9999244	0.9999278	0.9999314
137 07 30	0.9999167	0.9999195	0.9999225	0.9999257	0.9999292
137 10 00	0.9999151	0.9999178	0.9999206	0.9999238	0.9999271
137 12 30	0.9999136	0.9999161	0.9999189	0.9999219	0.9999250
137 15 00	0.9999121	0.9999145	0.9999172	0.9999200	0.9999231
137 17 30	0.9999108	0.9999131	0.9999156	0.9999183	0.9999212
137 20 00	0.9999095	0.9999117	0.9999140	0.9999166	0.9999194
137 22 30	0.9999083	0.9999103	0.9999126	0.9999150	0.9999177
137 25 00	0.9999072	0.9999091	0.9999112	0.9999135	0.9999161
137 27 30	0.9999061	0.9999079	0.9999099	0.9999121	0.9999145
137 30 00	0.9999052	0.9999068	0.9999087	0.9999108	0.9999131
137 32 30	0.9999043	0.9999058	0.9999075	0.9999095	0.9999117
137 35 00	0.9999035	0.9999049	0.9999065	0.9999083	0.9999103
137 37 30	0.9999028	0.9999040	0.9999055	0.9999072	0.9999091
137 40 00	0.9999021	0.9999032	0.9999046	0.9999061	0.9999079
137 42 30	0.9999016	0.9999025	0.9999038	0.9999052	0.9999068
137 45 00	0.9999011	0.9999019	0.9999030	0.9999043	0.9999058
137 47 30	0.9999007	0.9999014	0.9999023	0.9999035	0.9999049
137 50 00	0.9999003	0.9999009	0.9999017	0.9999028	0.9999040
137 52 30	0.9999001	0.9999005	0.9999012	0.9999021	0.9999033
137 55 00	0.9998999	0.9999002	0.9999008	0.9999016	0.9999026
137 57 30	0.9998998	0.9999000	0.9999004	0.9999011	0.9999019
138 00 00	0.9998998	0.9998998	0.9999001	0.9999006	0.9999014
138 02 30	0.9998998	0.9998998	0.9998999	0.9999003	0.9999009
138 05 00	0.9998999	0.9998997	0.9998998	0.9999000	0.9999005
138 07 30	0.9999001	0.9998998	0.9998997	0.9998999	0.9999002
138 10 00	0.9999004	0.9999000	0.9998998	0.9998997	0.9999000
138 12 30	0.9999008	0.9999002	0.9998998	0.9998997	0.9998998
138 15 00	0.9999012	0.9999005	0.9999000	0.9998998	0.9998997
138 17 30	0.9999017	0.9999009	0.9999003	0.9998999	0.9998997
138 20 00	0.9999023	0.9999014	0.9999006	0.9999001	0.9998998
138 22 30	0.9999030	0.9999019	0.9999010	0.9999003	0.9998999
138 25 00	0.9999037	0.9999025	0.9999015	0.9999007	0.9999001
138 27 30	0.9999046	0.9999032	0.9999020	0.9999011	0.9999004
138 30 00	0.9999055	0.9999039	0.9999027	0.9999016	0.9999008
138 32 30	0.9999064	0.9999048	0.9999034	0.9999022	0.9999012
138 35 00	0.9999075	0.9999057	0.9999041	0.9999028	0.9999017
138 37 30	0.9999086	0.9999067	0.9999050	0.9999036	0.9999023
138 40 00	0.9999098	0.9999077	0.9999059	0.9999044	0.9999030
138 42 30	0.9999111	0.9999089	0.9999069	0.9999052	0.9999037
138 45 00	0.9999124	0.9999101	0.9999080	0.9999062	0.9999046
138 47 30	0.9999138	0.9999114	0.9999092	0.9999072	0.9999054
138 50 00	0.9999153	0.9999127	0.9999104	0.9999083	0.9999064
138 52 30	0.9999169	0.9999142	0.9999117	0.9999095	0.9999074
138 55 00	0.9999185	0.9999157	0.9999131	0.9999107	0.9999086
138 57 30	0.9999203	0.9999173	0.9999145	0.9999120	0.9999097
139 00 00	0.9999221	0.9999189	0.9999161	0.9999134	0.9999110

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	59 50 00	59 52 30	59 55 00	59 57 30	60 00 00
139 00 00	- 4 33 32.0	- 4 33 32.7	- 4 33 33.4	- 4 33 34.0	- 4 33 34.6
139 02 30	- 4 35 42.0	- 4 35 42.8	- 4 35 43.5	- 4 35 44.1	- 4 35 44.7
139 05 00	- 4 37 52.1	- 4 37 52.8	- 4 37 53.6	- 4 37 54.3	- 4 37 54.9
139 07 30	- 4 40 02.1	- 4 40 02.9	- 4 40 03.7	- 4 40 04.4	- 4 40 05.1
139 10 00	- 4 42 12.2	- 4 42 13.0	- 4 42 13.8	- 4 42 14.6	- 4 42 15.2
139 12 30	- 4 44 22.3	- 4 44 23.1	- 4 44 24.0	- 4 44 24.7	- 4 44 25.4
139 15 00	- 4 46 32.4	- 4 46 33.3	- 4 46 34.1	- 4 46 34.9	- 4 46 35.7
139 17 30	- 4 48 42.5	- 4 48 43.4	- 4 48 44.3	- 4 48 45.1	- 4 48 45.9
139 20 00	- 4 50 52.6	- 4 50 53.6	- 4 50 54.5	- 4 50 55.3	- 4 50 56.1
139 22 30	- 4 53 02.7	- 4 53 03.7	- 4 53 04.7	- 4 53 05.6	- 4 53 06.4
139 25 00	- 4 55 12.9	- 4 55 13.9	- 4 55 14.9	- 4 55 15.8	- 4 55 16.7
139 27 30	- 4 57 23.1	- 4 57 24.1	- 4 57 25.1	- 4 57 26.1	- 4 57 27.0
139 30 00	- 4 59 33.2	- 4 59 34.3	- 4 59 35.4	- 4 59 36.3	- 4 59 37.3
139 32 30	- 5 01 43.4	- 5 01 44.5	- 5 01 45.6	- 5 01 46.6	- 5 01 47.6
139 35 00	- 5 03 53.6	- 5 03 54.8	- 5 03 55.9	- 5 03 56.9	- 5 03 57.9
139 37 30	- 5 06 03.9	- 5 06 05.0	- 5 06 06.2	- 5 06 07.2	- 5 06 08.2
139 40 00	- 5 08 14.1	- 5 08 15.3	- 5 08 16.5	- 5 08 17.6	- 5 08 18.6
139 42 30	- 5 10 24.4	- 5 10 25.6	- 5 10 26.8	- 5 10 27.9	- 5 10 29.0
139 45 00	- 5 12 34.6	- 5 12 35.9	- 5 12 37.1	- 5 12 38.2	- 5 12 39.3
139 47 30	- 5 14 44.9	- 5 14 46.2	- 5 14 47.4	- 5 14 48.6	- 5 14 49.7
139 50 00	- 5 16 55.2	- 5 16 56.5	- 5 16 57.8	- 5 16 59.0	- 5 17 00.2
139 52 30	- 5 19 05.5	- 5 19 06.9	- 5 19 08.1	- 5 19 09.4	- 5 19 10.6
139 55 00	- 5 21 15.8	- 5 21 17.2	- 5 21 18.5	- 5 21 19.8	- 5 21 21.0
139 57 30	- 5 23 26.2	- 5 23 27.6	- 5 23 28.9	- 5 23 30.2	- 5 23 31.5
140 00 00	- 5 25 36.5	- 5 25 37.9	- 5 25 39.3	- 5 25 40.7	- 5 25 41.9
140 02 30	- 5 27 46.9	- 5 27 48.3	- 5 27 49.8	- 5 27 51.1	- 5 27 52.4
140 05 00	- 5 29 57.3	- 5 29 58.8	- 5 30 00.2	- 5 30 01.6	- 5 30 02.9
140 07 30	- 5 32 07.6	- 5 32 09.2	- 5 32 10.6	- 5 32 12.1	- 5 32 13.4
140 10 00	- 5 34 18.1	- 5 34 19.6	- 5 34 21.1	- 5 34 22.6	- 5 34 23.9
140 12 30	- 5 36 28.5	- 5 36 30.1	- 5 36 31.6	- 5 36 33.1	- 5 36 34.5
140 15 00	- 5 38 38.9	- 5 38 40.5	- 5 38 42.1	- 5 38 43.6	- 5 38 45.0
140 17 30	- 5 40 49.4	- 5 40 51.0	- 5 40 52.6	- 5 40 54.1	- 5 40 55.6
140 20 00	- 5 42 59.8	- 5 43 01.5	- 5 43 03.1	- 5 43 04.7	- 5 43 06.2
140 22 30	- 5 45 10.3	- 5 45 12.0	- 5 45 13.7	- 5 45 15.2	- 5 45 16.8
140 25 00	- 5 47 20.8	- 5 47 22.5	- 5 47 24.2	- 5 47 25.8	- 5 47 27.4
140 27 30	- 5 49 31.3	- 5 49 33.1	- 5 49 34.8	- 5 49 36.4	- 5 49 38.0
140 30 00	- 5 51 41.8	- 5 51 43.6	- 5 51 45.3	- 5 51 47.0	- 5 51 48.6
140 32 30	- 5 53 52.4	- 5 53 54.2	- 5 53 55.9	- 5 53 57.6	- 5 53 59.3
140 35 00	- 5 56 02.9	- 5 56 04.8	- 5 56 06.5	- 5 56 08.3	- 5 56 10.0
140 37 30	- 5 58 13.5	- 5 58 15.4	- 5 58 17.2	- 5 58 18.9	- 5 58 20.6
140 40 00	- 6 00 24.1	- 6 00 26.0	- 6 00 27.8	- 6 00 29.6	- 6 00 31.3
140 42 30	- 6 02 34.7	- 6 02 36.6	- 6 02 38.5	- 6 02 40.3	- 6 02 42.0
140 45 00	- 6 04 45.3	- 6 04 47.2	- 6 04 49.1	- 6 04 51.0	- 6 04 52.8
140 47 30	- 6 06 55.9	- 6 06 57.9	- 6 06 59.8	- 6 07 01.7	- 6 07 03.5
140 50 00	- 6 09 06.5	- 6 09 08.5	- 6 09 10.5	- 6 09 12.4	- 6 09 14.2
140 52 30	- 6 11 17.2	- 6 11 19.2	- 6 11 21.2	- 6 11 23.1	- 6 11 25.0
140 55 00	- 6 13 27.8	- 6 13 29.9	- 6 13 31.9	- 6 13 33.9	- 6 13 35.8
140 57 30	- 6 15 38.5	- 6 15 40.6	- 6 15 42.7	- 6 15 44.6	- 6 15 46.6
141 00 00	- 6 17 49.2	- 6 17 51.3	- 6 17 53.4	- 6 17 55.4	- 6 17 57.4
141 02 30	- 6 19 59.9	- 6 20 02.1	- 6 20 04.2	- 6 20 06.2	- 6 20 08.2
141 05 00	- 6 22 10.6	- 6 22 12.8	- 6 22 14.9	- 6 22 17.0	- 6 22 19.0
141 07 30	- 6 24 21.4	- 6 24 23.6	- 6 24 25.7	- 6 24 27.8	- 6 24 29.9
141 10 00	- 6 26 32.1	- 6 26 34.4	- 6 26 36.6	- 6 26 38.7	- 6 26 40.7
141 12 30	- 6 28 42.9	- 6 28 45.2	- 6 28 47.4	- 6 28 49.5	- 6 28 51.6
141 15 00	- 6 30 53.7	- 6 30 56.0	- 6 30 58.2	- 6 31 00.4	- 6 31 02.5
141 17 30	- 6 33 04.5	- 6 33 06.8	- 6 33 09.1	- 6 33 11.3	- 6 33 13.4
141 20 00	- 6 35 15.3	- 6 35 17.6	- 6 35 19.9	- 6 35 22.2	- 6 35 24.3
141 22 30	- 6 37 26.1	- 6 37 28.5	- 6 37 30.8	- 6 37 33.1	- 6 37 35.3
141 25 00	- 6 39 37.0	- 6 39 39.4	- 6 39 41.7	- 6 39 44.0	- 6 39 46.2
141 27 30	- 6 41 47.8	- 6 41 50.2	- 6 41 52.6	- 6 41 54.9	- 6 41 57.2
141 30 00	- 6 43 58.7	- 6 44 01.1	- 6 44 03.5	- 6 44 05.9	- 6 44 08.2

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	59 50 00	59 52 30	59 55 00	59 57 30	60 00 00
139 00 00	0.9999221	0.9999189	0.9999161	0.9999134	0.9999110
139 02 30	0.9999239	0.9999207	0.9999177	0.9999149	0.9999123
139 05 00	0.9999259	0.9999225	0.9999193	0.9999164	0.9999138
139 07 30	0.9999279	0.9999244	0.9999211	0.9999181	0.9999152
139 10 00	0.9999300	0.9999263	0.9999229	0.9999197	0.9999168
139 12 30	0.9999321	0.9999284	0.9999248	0.9999215	0.9999184
139 15 00	0.9999344	0.9999305	0.9999268	0.9999233	0.9999201
139 17 30	0.9999367	0.9999326	0.9999288	0.9999252	0.9999219
139 20 00	0.9999391	0.9999349	0.9999309	0.9999272	0.9999237
139 22 30	0.9999415	0.9999372	0.9999331	0.9999293	0.9999257
139 25 00	0.9999441	0.9999396	0.9999354	0.9999314	0.9999277
139 27 30	0.9999467	0.9999421	0.9999377	0.9999336	0.9999297
139 30 00	0.9999494	0.9999446	0.9999401	0.9999359	0.9999319
139 32 30	0.9999521	0.9999472	0.9999426	0.9999382	0.9999341
139 35 00	0.9999549	0.9999499	0.9999452	0.9999406	0.9999364
139 37 30	0.9999578	0.9999527	0.9999478	0.9999431	0.9999387
139 40 00	0.9999608	0.9999555	0.9999505	0.9999457	0.9999411
139 42 30	0.9999638	0.9999584	0.9999533	0.9999483	0.9999436
139 45 00	0.9999669	0.9999614	0.9999561	0.9999510	0.9999462
139 47 30	0.9999701	0.9999644	0.9999590	0.9999538	0.9999488
139 50 00	0.9999734	0.9999676	0.9999620	0.9999567	0.9999516
139 52 30	0.9999767	0.9999708	0.9999650	0.9999596	0.9999543
139 55 00	0.9999801	0.9999740	0.9999682	0.9999626	0.9999572
139 57 30	0.9999836	0.9999774	0.9999714	0.9999656	0.9999601
140 00 00	0.9999871	0.9999808	0.9999746	0.9999688	0.9999631
140 02 30	0.9999907	0.9999842	0.9999780	0.9999720	0.9999662
140 05 00	0.9999944	0.9999878	0.9999814	0.9999752	0.9999693
140 07 30	0.9999982	0.9999914	0.9999849	0.9999786	0.9999725
140 10 00	1.0000020	0.9999951	0.9999884	0.9999820	0.9999758
140 12 30	1.0000059	0.9999988	0.9999920	0.9999855	0.9999792
140 15 00	1.0000099	1.0000027	0.9999957	0.9999890	0.9999826
140 17 30	1.0000139	1.0000066	0.9999995	0.9999927	0.9999861
140 20 00	1.0000180	1.0000105	1.0000033	0.9999964	0.9999896
140 22 30	1.0000222	1.0000146	1.0000072	1.0000001	0.9999933
140 25 00	1.0000264	1.0000187	1.0000112	1.0000040	0.9999970
140 27 30	1.0000307	1.0000229	1.0000153	1.0000079	1.0000007
140 30 00	1.0000351	1.0000271	1.0000194	1.0000118	1.0000046
140 32 30	1.0000396	1.0000314	1.0000235	1.0000159	1.0000085
140 35 00	1.0000441	1.0000358	1.0000278	1.0000200	1.0000124
140 37 30	1.0000487	1.0000403	1.0000321	1.0000242	1.0000165
140 40 00	1.0000534	1.0000448	1.0000365	1.0000284	1.0000206
140 42 30	1.0000581	1.0000494	1.0000410	1.0000328	1.0000248
140 45 00	1.0000629	1.0000541	1.0000455	1.0000371	1.0000290
140 47 30	1.0000678	1.0000588	1.0000501	1.0000416	1.0000334
140 50 00	1.0000727	1.0000636	1.0000548	1.0000461	1.0000378
140 52 30	1.0000777	1.0000685	1.0000595	1.0000507	1.0000422
140 55 00	1.0000828	1.0000734	1.0000643	1.0000554	1.0000467
140 57 30	1.0000880	1.0000784	1.0000692	1.0000601	1.0000513
141 00 00	1.0000932	1.0000835	1.0000741	1.0000649	1.0000560
141 02 30	1.0000985	1.0000887	1.0000791	1.0000698	1.0000607
141 05 00	1.0001038	1.0000939	1.0000842	1.0000747	1.0000655
141 07 30	1.0001092	1.0000992	1.0000893	1.0000797	1.0000704
141 10 00	1.0001147	1.0001045	1.0000945	1.0000848	1.0000753
141 12 30	1.0001203	1.0001099	1.0000998	1.0000899	1.0000803
141 15 00	1.0001259	1.0001154	1.0001051	1.0000951	1.0000854
141 17 30	1.0001316	1.0001209	1.0001106	1.0001004	1.0000905
141 20 00	1.0001374	1.0001266	1.0001160	1.0001057	1.0000957
141 22 30	1.0001432	1.0001322	1.0001216	1.0001111	1.0001010
141 25 00	1.0001491	1.0001380	1.0001272	1.0001166	1.0001063
141 27 30	1.0001550	1.0001438	1.0001329	1.0001222	1.0001117
141 30 00	1.0001610	1.0001497	1.0001386	1.0001278	1.0001172

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	60 00 00	60 02 30	60 05 00	60 07 30	60 10 00
136 30 00	- 2 23 50.4	- 2 23 48.9	- 2 23 47.5	- 2 23 46.0	- 2 23 44.4
136 32 30	- 2 25 59.7	- 2 25 58.3	- 2 25 56.9	- 2 25 55.4	- 2 25 53.9
136 35 00	- 2 28 09.1	- 2 28 07.7	- 2 28 06.3	- 2 28 04.9	- 2 28 03.4
136 37 30	- 2 30 18.4	- 2 30 17.1	- 2 30 15.8	- 2 30 14.4	- 2 30 12.9
136 40 00	- 2 32 27.8	- 2 32 26.5	- 2 32 25.2	- 2 32 23.8	- 2 32 22.4
136 42 30	- 2 34 37.2	- 2 34 36.0	- 2 34 34.7	- 2 34 33.3	- 2 34 31.9
136 45 00	- 2 36 46.6	- 2 36 45.4	- 2 36 44.2	- 2 36 42.8	- 2 36 41.5
136 47 30	- 2 38 56.1	- 2 38 54.9	- 2 38 53.7	- 2 38 52.4	- 2 38 51.0
136 50 00	- 2 41 05.5	- 2 41 04.4	- 2 41 03.2	- 2 41 01.9	- 2 41 00.6
136 52 30	- 2 43 14.9	- 2 43 13.8	- 2 43 12.7	- 2 43 11.5	- 2 43 10.2
136 55 00	- 2 45 24.4	- 2 45 23.3	- 2 45 22.2	- 2 45 21.0	- 2 45 19.8
136 57 30	- 2 47 33.9	- 2 47 32.8	- 2 47 31.7	- 2 47 30.6	- 2 47 29.4
137 00 00	- 2 49 43.4	- 2 49 42.4	- 2 49 41.3	- 2 49 40.2	- 2 49 39.0
137 02 30	- 2 51 52.9	- 2 51 51.9	- 2 51 50.9	- 2 51 49.8	- 2 51 48.6
137 05 00	- 2 54 02.4	- 2 54 01.4	- 2 54 00.5	- 2 53 59.4	- 2 53 58.3
137 07 30	- 2 56 11.9	- 2 56 11.0	- 2 56 10.0	- 2 56 09.0	- 2 56 08.0
137 10 00	- 2 58 21.5	- 2 58 20.6	- 2 58 19.7	- 2 58 18.7	- 2 58 17.6
137 12 30	- 3 00 31.0	- 3 00 30.2	- 3 00 29.3	- 3 00 28.3	- 3 00 27.3
137 15 00	- 3 02 40.6	- 3 02 39.8	- 3 02 38.9	- 3 02 38.0	- 3 02 37.0
137 17 30	- 3 04 50.2	- 3 04 49.4	- 3 04 48.6	- 3 04 47.7	- 3 04 46.7
137 20 00	- 3 06 59.8	- 3 06 59.0	- 3 06 58.2	- 3 06 57.4	- 3 06 56.5
137 22 30	- 3 09 09.4	- 3 09 08.7	- 3 09 07.9	- 3 09 07.1	- 3 09 06.2
137 25 00	- 3 11 19.0	- 3 11 18.3	- 3 11 17.6	- 3 11 16.8	- 3 11 15.9
137 27 30	- 3 13 28.6	- 3 13 28.0	- 3 13 27.3	- 3 13 26.5	- 3 13 25.7
137 30 00	- 3 15 38.3	- 3 15 37.7	- 3 15 37.0	- 3 15 36.3	- 3 15 35.5
137 32 30	- 3 17 47.9	- 3 17 47.4	- 3 17 46.7	- 3 17 46.0	- 3 17 45.3
137 35 00	- 3 19 57.6	- 3 19 57.1	- 3 19 56.5	- 3 19 55.8	- 3 19 55.1
137 37 30	- 3 22 07.3	- 3 22 06.8	- 3 22 06.2	- 3 22 05.6	- 3 22 04.9
137 40 00	- 3 24 17.0	- 3 24 16.5	- 3 24 16.0	- 3 24 15.4	- 3 24 14.7
137 42 30	- 3 26 26.7	- 3 26 26.3	- 3 26 25.7	- 3 26 25.2	- 3 26 24.6
137 45 00	- 3 28 36.4	- 3 28 36.0	- 3 28 35.5	- 3 28 35.0	- 3 28 34.4
137 47 30	- 3 30 46.2	- 3 30 45.8	- 3 30 45.3	- 3 30 44.8	- 3 30 44.3
137 50 00	- 3 32 55.9	- 3 32 55.6	- 3 32 55.2	- 3 32 54.7	- 3 32 54.2
137 52 30	- 3 35 05.7	- 3 35 05.4	- 3 35 05.0	- 3 35 04.6	- 3 35 04.1
137 55 00	- 3 37 15.5	- 3 37 15.2	- 3 37 14.8	- 3 37 14.4	- 3 37 14.0
137 57 30	- 3 39 25.3	- 3 39 25.0	- 3 39 24.7	- 3 39 24.3	- 3 39 23.9
138 00 00	- 3 41 35.1	- 3 41 34.9	- 3 41 34.6	- 3 41 34.2	- 3 41 33.8
138 02 30	- 3 43 44.9	- 3 43 44.7	- 3 43 44.5	- 3 43 44.1	- 3 43 43.8
138 05 00	- 3 45 54.8	- 3 45 54.6	- 3 45 54.4	- 3 45 54.1	- 3 45 53.7
138 07 30	- 3 48 04.6	- 3 48 04.5	- 3 48 04.3	- 3 48 04.0	- 3 48 03.7
138 10 00	- 3 50 14.5	- 3 50 14.4	- 3 50 14.2	- 3 50 14.0	- 3 50 13.7
138 12 30	- 3 52 24.3	- 3 52 24.3	- 3 52 24.1	- 3 52 23.9	- 3 52 23.7
138 15 00	- 3 54 34.2	- 3 54 34.2	- 3 54 34.1	- 3 54 33.9	- 3 54 33.7
138 17 30	- 3 56 44.1	- 3 56 44.1	- 3 56 44.1	- 3 56 43.9	- 3 56 43.7
138 20 00	- 3 58 54.1	- 3 58 54.1	- 3 58 54.0	- 3 58 53.9	- 3 58 53.8
138 22 30	- 4 01 04.0	- 4 01 04.0	- 4 01 04.0	- 4 01 04.0	- 4 01 03.8
138 25 00	- 4 03 13.9	- 4 03 14.0	- 4 03 14.0	- 4 03 14.0	- 4 03 13.9
138 27 30	- 4 05 23.9	- 4 05 24.0	- 4 05 24.0	- 4 05 24.0	- 4 05 24.0
138 30 00	- 4 07 33.9	- 4 07 34.0	- 4 07 34.1	- 4 07 34.1	- 4 07 34.1
138 32 30	- 4 09 43.8	- 4 09 44.0	- 4 09 44.1	- 4 09 44.2	- 4 09 44.2
138 35 00	- 4 11 53.8	- 4 11 54.0	- 4 11 54.2	- 4 11 54.3	- 4 11 54.3
138 37 30	- 4 14 03.8	- 4 14 04.1	- 4 14 04.3	- 4 14 04.4	- 4 14 04.5
138 40 00	- 4 16 13.9	- 4 16 14.1	- 4 16 14.3	- 4 16 14.5	- 4 16 14.6
138 42 30	- 4 18 23.9	- 4 18 24.2	- 4 18 24.4	- 4 18 24.6	- 4 18 24.8
138 45 00	- 4 20 34.0	- 4 20 34.3	- 4 20 34.6	- 4 20 34.8	- 4 20 34.9
138 47 30	- 4 22 44.0	- 4 22 44.4	- 4 22 44.7	- 4 22 44.9	- 4 22 45.1
138 50 00	- 4 24 54.1	- 4 24 54.5	- 4 24 54.8	- 4 24 55.1	- 4 24 55.3
138 52 30	- 4 27 04.2	- 4 27 04.6	- 4 27 05.0	- 4 27 05.3	- 4 27 05.5
138 55 00	- 4 29 14.3	- 4 29 14.8	- 4 29 15.2	- 4 29 15.5	- 4 29 15.8
138 57 30	- 4 31 24.4	- 4 31 24.9	- 4 31 25.3	- 4 31 25.7	- 4 31 26.0
139 00 00	- 4 33 34.6	- 4 33 35.1	- 4 33 35.5	- 4 33 35.9	- 4 33 36.3

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277\times10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	60 00 00	60 02 30	60 05 00	60 07 30	60 10 00
136 30 00	0.9999704	0.9999760	0.9999817	0.9999877	0.9999939
136 32 30	0.9999671	0.9999725	0.9999782	0.9999840	0.9999901
136 35 00	0.9999639	0.9999692	0.9999747	0.9999804	0.9999864
136 37 30	0.9999607	0.9999659	0.9999713	0.9999769	0.9999827
136 40 00	0.9999576	0.9999627	0.9999680	0.9999735	0.9999792
136 42 30	0.9999546	0.9999596	0.9999647	0.9999701	0.9999757
136 45 00	0.9999517	0.9999565	0.9999616	0.9999668	0.9999723
136 47 30	0.9999489	0.9999536	0.9999585	0.9999636	0.9999689
136 50 00	0.9999462	0.9999507	0.9999555	0.9999605	0.9999657
136 52 30	0.9999435	0.9999479	0.9999526	0.9999574	0.9999625
136 55 00	0.9999409	0.9999452	0.9999497	0.9999545	0.9999594
136 57 30	0.9999384	0.9999426	0.9999470	0.9999516	0.9999564
137 00 00	0.9999360	0.9999400	0.9999443	0.9999488	0.9999535
137 02 30	0.9999336	0.9999376	0.9999417	0.9999461	0.9999506
137 05 00	0.9999314	0.9999352	0.9999392	0.9999434	0.9999479
137 07 30	0.9999292	0.9999329	0.9999367	0.9999408	0.9999452
137 10 00	0.9999271	0.9999306	0.9999344	0.9999384	0.9999425
137 12 30	0.9999250	0.9999285	0.9999321	0.9999359	0.9999400
137 15 00	0.9999231	0.9999264	0.9999299	0.9999336	0.9999375
137 17 30	0.9999212	0.9999244	0.9999278	0.9999314	0.9999352
137 20 00	0.9999194	0.9999225	0.9999257	0.9999292	0.9999329
137 22 30	0.9999177	0.9999206	0.9999237	0.9999271	0.9999306
137 25 00	0.9999161	0.9999189	0.9999219	0.9999251	0.9999285
137 27 30	0.9999145	0.9999172	0.9999200	0.9999231	0.9999264
137 30 00	0.9999131	0.9999156	0.9999183	0.9999213	0.9999244
137 32 30	0.9999117	0.9999140	0.9999167	0.9999195	0.9999225
137 35 00	0.9999103	0.9999126	0.9999151	0.9999178	0.9999207
137 37 30	0.9999091	0.9999112	0.9999136	0.9999161	0.9999189
137 40 00	0.9999079	0.9999099	0.9999122	0.9999146	0.9999173
137 42 30	0.9999068	0.9999087	0.9999108	0.9999131	0.9999157
137 45 00	0.9999058	0.9999076	0.9999095	0.9999117	0.9999141
137 47 30	0.9999049	0.9999065	0.9999084	0.9999104	0.9999127
137 50 00	0.9999040	0.9999055	0.9999072	0.9999092	0.9999113
137 52 30	0.9999033	0.9999046	0.9999062	0.9999080	0.9999100
137 55 00	0.9999026	0.9999038	0.9999052	0.9999069	0.9999088
137 57 30	0.9999019	0.9999030	0.9999044	0.9999059	0.9999077
138 00 00	0.9999014	0.9999024	0.9999036	0.9999050	0.9999066
138 02 30	0.9999009	0.9999018	0.9999028	0.9999041	0.9999056
138 05 00	0.9999005	0.9999012	0.9999022	0.9999033	0.9999047
138 07 30	0.9999002	0.9999008	0.9999016	0.9999026	0.9999039
138 10 00	0.9999000	0.9999004	0.9999011	0.9999020	0.9999031
138 12 30	0.9998998	0.9999001	0.9999007	0.9999014	0.9999024
138 15 00	0.9998997	0.9998999	0.9999003	0.9999010	0.9999018
138 17 30	0.9998997	0.9998998	0.9999000	0.9999006	0.9999013
138 20 00	0.9998998	0.9998997	0.9998998	0.9999002	0.9999008
138 22 30	0.9998999	0.9998997	0.9998997	0.9999000	0.9999004
138 25 00	0.9999001	0.9998998	0.9998997	0.9998998	0.9999001
138 27 30	0.9999004	0.9998999	0.9998997	0.9998997	0.9998999
138 30 00	0.9999008	0.9999002	0.9998998	0.9998997	0.9998997
138 32 30	0.9999012	0.9999005	0.9999000	0.9998997	0.9998997
138 35 00	0.9999017	0.9999009	0.9999002	0.9998998	0.9998997
138 37 30	0.9999023	0.9999013	0.9999006	0.9999000	0.9998997
138 40 00	0.9999030	0.9999019	0.9999010	0.9999003	0.9998999
138 42 30	0.9999037	0.9999025	0.9999015	0.9999007	0.9999001
138 45 00	0.9999046	0.9999032	0.9999020	0.9999011	0.9999004
138 47 30	0.9999054	0.9999039	0.9999026	0.9999016	0.9999007
138 50 00	0.9999064	0.9999048	0.9999033	0.9999021	0.9999012
138 52 30	0.9999074	0.9999057	0.9999041	0.9999028	0.9999017
138 55 00	0.9999086	0.9999066	0.9999050	0.9999035	0.9999023
138 57 30	0.9999097	0.9999077	0.9999059	0.9999043	0.9999029
139 00 00	0.9999110	0.9999088	0.9999069	0.9999051	0.9999037

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	60 00 00	60 02 30	60 05 00	60 07 30	60 10 00
139 00 00	- 4 33 34.6	- 4 33 35.1	- 4 33 35.5	- 4 33 35.9	- 4 33 36.3
139 02 30	- 4 35 44.7	- 4 35 45.3	- 4 35 45.7	- 4 35 46.2	- 4 35 46.5
139 05 00	- 4 37 54.9	- 4 37 55.4	- 4 37 56.0	- 4 37 56.4	- 4 37 56.8
139 07 30	- 4 40 05.1	- 4 40 05.7	- 4 40 06.2	- 4 40 06.7	- 4 40 07.1
139 10 00	- 4 42 15.2	- 4 42 15.9	- 4 42 16.4	- 4 42 17.0	- 4 42 17.4
139 12 30	- 4 44 25.4	- 4 44 26.1	- 4 44 26.7	- 4 44 27.3	- 4 44 27.8
139 15 00	- 4 46 35.7	- 4 46 36.4	- 4 46 37.0	- 4 46 37.6	- 4 46 38.1
139 17 30	- 4 48 45.9	- 4 48 46.6	- 4 48 47.3	- 4 48 47.9	- 4 48 48.4
139 20 00	- 4 50 56.1	- 4 50 56.9	- 4 50 57.6	- 4 50 58.2	- 4 50 58.8
139 22 30	- 4 53 06.4	- 4 53 07.2	- 4 53 07.9	- 4 53 08.6	- 4 53 09.2
139 25 00	- 4 55 16.7	- 4 55 17.5	- 4 55 18.2	- 4 55 18.9	- 4 55 19.6
139 27 30	- 4 57 27.0	- 4 57 27.8	- 4 57 28.6	- 4 57 29.3	- 4 57 30.0
139 30 00	- 4 59 37.3	- 4 59 38.1	- 4 59 38.9	- 4 59 39.7	- 4 59 40.4
139 32 30	- 5 01 47.6	- 5 01 48.5	- 5 01 49.3	- 5 01 50.1	- 5 01 50.8
139 35 00	- 5 03 57.9	- 5 03 58.8	- 5 03 59.7	- 5 04 00.5	- 5 04 01.3
139 37 30	- 5 06 08.2	- 5 06 09.2	- 5 06 10.1	- 5 06 10.9	- 5 06 11.7
139 40 00	- 5 08 18.6	- 5 08 19.6	- 5 08 20.5	- 5 08 21.4	- 5 08 22.2
139 42 30	- 5 10 29.0	- 5 10 30.0	- 5 10 30.9	- 5 10 31.9	- 5 10 32.7
139 45 00	- 5 12 39.3	- 5 12 40.4	- 5 12 41.4	- 5 12 42.3	- 5 12 43.2
139 47 30	- 5 14 49.7	- 5 14 50.8	- 5 14 51.8	- 5 14 52.8	- 5 14 53.7
139 50 00	- 5 17 00.2	- 5 17 01.3	- 5 17 02.3	- 5 17 03.3	- 5 17 04.2
139 52 30	- 5 19 10.6	- 5 19 11.7	- 5 19 12.8	- 5 19 13.8	- 5 19 14.8
139 55 00	- 5 21 21.0	- 5 21 22.2	- 5 21 23.3	- 5 21 24.3	- 5 21 25.3
139 57 30	- 5 23 31.5	- 5 23 32.7	- 5 23 33.8	- 5 23 34.9	- 5 23 35.9
140 00 00	- 5 25 41.9	- 5 25 43.2	- 5 25 44.3	- 5 25 45.4	- 5 25 46.5
140 02 30	- 5 27 52.4	- 5 27 53.7	- 5 27 54.9	- 5 27 56.0	- 5 27 57.1
140 05 00	- 5 30 02.9	- 5 30 04.2	- 5 30 05.4	- 5 30 06.6	- 5 30 07.7
140 07 30	- 5 32 13.4	- 5 32 14.7	- 5 32 16.0	- 5 32 17.2	- 5 32 18.3
140 10 00	- 5 34 23.9	- 5 34 25.3	- 5 34 26.6	- 5 34 27.8	- 5 34 29.0
140 12 30	- 5 36 34.5	- 5 36 35.9	- 5 36 37.2	- 5 36 38.4	- 5 36 39.6
140 15 00	- 5 38 45.0	- 5 38 46.4	- 5 38 47.8	- 5 38 49.1	- 5 38 50.3
140 17 30	- 5 40 55.6	- 5 40 57.0	- 5 40 58.4	- 5 40 59.7	- 5 41 01.0
140 20 00	- 5 43 06.2	- 5 43 07.6	- 5 43 09.0	- 5 43 10.4	- 5 43 11.7
140 22 30	- 5 45 16.8	- 5 45 18.3	- 5 45 19.7	- 5 45 21.1	- 5 45 22.4
140 25 00	- 5 47 27.4	- 5 47 28.9	- 5 47 30.4	- 5 47 31.8	- 5 47 33.1
140 27 30	- 5 49 38.0	- 5 49 39.5	- 5 49 41.0	- 5 49 42.5	- 5 49 43.8
140 30 00	- 5 51 48.6	- 5 51 50.2	- 5 51 51.7	- 5 51 53.2	- 5 51 54.6
140 32 30	- 5 53 59.3	- 5 54 00.9	- 5 54 02.4	- 5 54 03.9	- 5 54 05.4
140 35 00	- 5 56 10.0	- 5 56 11.6	- 5 56 13.2	- 5 56 14.7	- 5 56 16.1
140 37 30	- 5 58 20.6	- 5 58 22.3	- 5 58 23.9	- 5 58 25.4	- 5 58 26.9
140 40 00	- 6 00 31.3	- 6 00 33.0	- 6 00 34.6	- 6 00 36.2	- 6 00 37.7
140 42 30	- 6 02 42.0	- 6 02 43.7	- 6 02 45.4	- 6 02 47.0	- 6 02 48.5
140 45 00	- 6 04 52.8	- 6 04 54.5	- 6 04 56.2	- 6 04 57.8	- 6 04 59.4
140 47 30	- 6 07 03.5	- 6 07 05.3	- 6 07 07.0	- 6 07 08.6	- 6 07 10.2
140 50 00	- 6 09 14.2	- 6 09 16.0	- 6 09 17.8	- 6 09 19.5	- 6 09 21.1
140 52 30	- 6 11 25.0	- 6 11 26.8	- 6 11 28.6	- 6 11 30.3	- 6 11 32.0
140 55 00	- 6 13 35.8	- 6 13 37.6	- 6 13 39.4	- 6 13 41.2	- 6 13 42.9
140 57 30	- 6 15 46.6	- 6 15 48.5	- 6 15 50.3	- 6 15 52.0	- 6 15 53.8
141 00 00	- 6 17 57.4	- 6 17 59.3	- 6 18 01.1	- 6 18 02.9	- 6 18 04.7
141 02 30	- 6 20 08.2	- 6 20 10.1	- 6 20 12.0	- 6 20 13.8	- 6 20 15.6
141 05 00	- 6 22 19.0	- 6 22 21.0	- 6 22 22.9	- 6 22 24.8	- 6 22 26.6
141 07 30	- 6 24 29.9	- 6 24 31.9	- 6 24 33.8	- 6 24 35.7	- 6 24 37.5
141 10 00	- 6 26 40.7	- 6 26 42.8	- 6 26 44.7	- 6 26 46.6	- 6 26 48.5
141 12 30	- 6 28 51.6	- 6 28 53.7	- 6 28 55.7	- 6 28 57.6	- 6 28 59.5
141 15 00	- 6 31 02.5	- 6 31 04.6	- 6 31 06.6	- 6 31 08.6	- 6 31 10.5
141 17 30	- 6 33 13.4	- 6 33 15.5	- 6 33 17.6	- 6 33 19.6	- 6 33 21.5
141 20 00	- 6 35 24.3	- 6 35 26.5	- 6 35 28.5	- 6 35 30.6	- 6 35 32.5
141 22 30	- 6 37 35.3	- 6 37 37.4	- 6 37 39.5	- 6 37 41.6	- 6 37 43.6
141 25 00	- 6 39 46.2	- 6 39 48.4	- 6 39 50.5	- 6 39 52.6	- 6 39 54.6
141 27 30	- 6 41 57.2	- 6 41 59.4	- 6 42 01.6	- 6 42 03.7	- 6 42 05.7
141 30 00	- 6 44 08.2	- 6 44 10.4	- 6 44 12.6	- 6 44 14.7	- 6 44 16.8

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	60 00 00	60 02 30	60 05 00	60 07 30	60 10 00
139 00 00	0.9999110	0.9999088	0.9999069	0.9999051	0.9999037
139 02 30	0.9999123	0.9999100	0.9999079	0.9999061	0.9999045
139 05 00	0.9999138	0.9999113	0.9999091	0.9999071	0.9999053
139 07 30	0.9999152	0.9999127	0.9999103	0.9999082	0.9999063
139 10 00	0.9999168	0.9999141	0.9999116	0.9999093	0.9999073
139 12 30	0.9999184	0.9999156	0.9999130	0.9999106	0.9999084
139 15 00	0.9999201	0.9999171	0.9999144	0.9999119	0.9999096
139 17 30	0.9999219	0.9999188	0.9999159	0.9999132	0.9999108
139 20 00	0.9999237	0.9999205	0.9999175	0.9999147	0.9999121
139 22 30	0.9999257	0.9999223	0.9999191	0.9999162	0.9999135
139 25 00	0.9999277	0.9999241	0.9999209	0.9999178	0.9999150
139 27 30	0.9999297	0.9999261	0.9999227	0.9999195	0.9999165
139 30 00	0.9999319	0.9999281	0.9999245	0.9999212	0.9999181
139 32 30	0.9999341	0.9999302	0.9999265	0.9999230	0.9999198
139 35 00	0.9999364	0.9999323	0.9999285	0.9999249	0.9999216
139 37 30	0.9999387	0.9999345	0.9999306	0.9999269	0.9999234
139 40 00	0.9999411	0.9999368	0.9999327	0.9999289	0.9999253
139 42 30	0.9999436	0.9999392	0.9999350	0.9999310	0.9999272
139 45 00	0.9999462	0.9999416	0.9999373	0.9999331	0.9999293
139 47 30	0.9999488	0.9999441	0.9999396	0.9999354	0.9999314
139 50 00	0.9999516	0.9999467	0.9999421	0.9999377	0.9999335
139 52 30	0.9999543	0.9999493	0.9999446	0.9999401	0.9999358
139 55 00	0.9999572	0.9999521	0.9999472	0.9999425	0.9999381
139 57 30	0.9999601	0.9999549	0.9999498	0.9999450	0.9999405
140 00 00	0.9999631	0.9999577	0.9999526	0.9999476	0.9999429
140 02 30	0.9999662	0.9999606	0.9999554	0.9999503	0.9999455
140 05 00	0.9999693	0.9999637	0.9999582	0.9999530	0.9999481
140 07 30	0.9999725	0.9999667	0.9999612	0.9999558	0.9999507
140 10 00	0.9999758	0.9999699	0.9999642	0.9999587	0.9999535
140 12 30	0.9999792	0.9999731	0.9999672	0.9999616	0.9999563
140 15 00	0.9999826	0.9999764	0.9999704	0.9999647	0.9999592
140 17 30	0.9999861	0.9999797	0.9999736	0.9999677	0.9999621
140 20 00	0.9999896	0.9999831	0.9999769	0.9999709	0.9999651
140 22 30	0.9999933	0.9999866	0.9999803	0.9999741	0.9999682
140 25 00	0.9999970	0.9999902	0.9999837	0.9999774	0.9999714
140 27 30	1.0000007	0.9999938	0.9999872	0.9999808	0.9999746
140 30 00	1.0000046	0.9999975	0.9999907	0.9999842	0.9999779
140 32 30	1.0000085	1.0000013	0.9999944	0.9999877	0.9999812
140 35 00	1.0000124	1.0000051	0.9999981	0.9999913	0.9999847
140 37 30	1.0000165	1.0000091	1.0000018	0.9999949	0.9999882
140 40 00	1.0000206	1.0000130	1.0000057	0.9999986	0.9999917
140 42 30	1.0000248	1.0000171	1.0000096	1.0000024	0.9999954
140 45 00	1.0000290	1.0000212	1.0000136	1.0000062	0.9999991
140 47 30	1.0000334	1.0000254	1.0000176	1.0000101	1.0000029
140 50 00	1.0000378	1.0000296	1.0000217	1.0000141	1.0000067
140 52 30	1.0000422	1.0000339	1.0000259	1.0000181	1.0000106
140 55 00	1.0000467	1.0000383	1.0000302	1.0000223	1.0000146
140 57 30	1.0000513	1.0000428	1.0000345	1.0000264	1.0000186
141 00 00	1.0000560	1.0000473	1.0000389	1.0000307	1.0000227
141 02 30	1.0000607	1.0000519	1.0000433	1.0000350	1.0000269
141 05 00	1.0000655	1.0000566	1.0000478	1.0000394	1.0000312
141 07 30	1.0000704	1.0000613	1.0000524	1.0000438	1.0000355
141 10 00	1.0000753	1.0000661	1.0000571	1.0000483	1.0000399
141 12 30	1.0000803	1.0000709	1.0000618	1.0000529	1.0000443
141 15 00	1.0000854	1.0000759	1.0000666	1.0000576	1.0000488
141 17 30	1.0000905	1.0000809	1.0000715	1.0000623	1.0000534
141 20 00	1.0000957	1.0000859	1.0000764	1.0000671	1.0000580
141 22 30	1.0001010	1.0000910	1.0000814	1.0000719	1.0000628
141 25 00	1.0001063	1.0000962	1.0000864	1.0000769	1.0000675
141 27 30	1.0001117	1.0001015	1.0000915	1.0000818	1.0000724
141 30 00	1.0001172	1.0001068	1.0000967	1.0000869	1.0000773

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	60 10 00	60 12 30	60 15 00	60 17 30	60 20 00
139 00 00	- 4 33 36.3	- 4 33 36.6	- 4 33 36.8	- 4 33 37.0	- 4 33 37.1
139 02 30	- 4 35 46.5	- 4 35 46.9	- 4 35 47.1	- 4 35 47.3	- 4 35 47.5
139 05 00	- 4 37 56.8	- 4 37 57.2	- 4 37 57.5	- 4 37 57.7	- 4 37 57.9
139 07 30	- 4 40 07.1	- 4 40 07.5	- 4 40 07.8	- 4 40 08.1	- 4 40 08.3
139 10 00	- 4 42 17.4	- 4 42 17.8	- 4 42 18.2	- 4 42 18.5	- 4 42 18.8
139 12 30	- 4 44 27.8	- 4 44 28.2	- 4 44 28.6	- 4 44 28.9	- 4 44 29.2
139 15 00	- 4 46 38.1	- 4 46 38.6	- 4 46 39.0	- 4 46 39.3	- 4 46 39.7
139 17 30	- 4 48 48.4	- 4 48 48.9	- 4 48 49.4	- 4 48 49.8	- 4 48 50.1
139 20 00	- 4 50 58.8	- 4 50 59.3	- 4 50 59.8	- 4 51 00.2	- 4 51 00.6
139 22 30	- 4 53 09.2	- 4 53 09.7	- 4 53 10.3	- 4 53 10.7	- 4 53 11.1
139 25 00	- 4 55 19.6	- 4 55 20.2	- 4 55 20.7	- 4 55 21.2	- 4 55 21.6
139 27 30	- 4 57 30.0	- 4 57 30.6	- 4 57 31.2	- 4 57 31.7	- 4 57 32.1
139 30 00	- 4 59 40.4	- 4 59 41.1	- 4 59 41.7	- 4 59 42.2	- 4 59 42.7
139 32 30	- 5 01 50.8	- 5 01 51.5	- 5 01 52.1	- 5 01 52.7	- 5 01 53.2
139 35 00	- 5 04 01.3	- 5 04 02.0	- 5 04 02.7	- 5 04 03.3	- 5 04 03.8
139 37 30	- 5 06 11.7	- 5 06 12.5	- 5 06 13.2	- 5 06 13.8	- 5 06 14.4
139 40 00	- 5 08 22.2	- 5 08 23.0	- 5 08 23.7	- 5 08 24.4	- 5 08 25.0
139 42 30	- 5 10 32.7	- 5 10 33.5	- 5 10 34.2	- 5 10 34.9	- 5 10 35.6
139 45 00	- 5 12 43.2	- 5 12 44.0	- 5 12 44.8	- 5 12 45.5	- 5 12 46.2
139 47 30	- 5 14 53.7	- 5 14 54.6	- 5 14 55.4	- 5 14 56.1	- 5 14 56.8
139 50 00	- 5 17 04.2	- 5 17 05.1	- 5 17 06.0	- 5 17 06.8	- 5 17 07.5
139 52 30	- 5 19 14.8	- 5 19 15.7	- 5 19 16.6	- 5 19 17.4	- 5 19 18.1
139 55 00	- 5 21 25.3	- 5 21 26.3	- 5 21 27.2	- 5 21 28.0	- 5 21 28.8
139 57 30	- 5 23 35.9	- 5 23 36.9	- 5 23 37.8	- 5 23 38.7	- 5 23 39.5
140 00 00	- 5 25 46.5	- 5 25 47.5	- 5 25 48.5	- 5 25 49.4	- 5 25 50.2
140 02 30	- 5 27 57.1	- 5 27 58.1	- 5 27 59.1	- 5 28 00.0	- 5 28 00.9
140 05 00	- 5 30 07.7	- 5 30 08.8	- 5 30 09.8	- 5 30 10.7	- 5 30 11.6
140 07 30	- 5 32 18.3	- 5 32 19.4	- 5 32 20.5	- 5 32 21.4	- 5 32 22.4
140 10 00	- 5 34 29.0	- 5 34 30.1	- 5 34 31.2	- 5 34 32.2	- 5 34 33.1
140 12 30	- 5 36 39.6	- 5 36 40.8	- 5 36 41.9	- 5 36 42.9	- 5 36 43.9
140 15 00	- 5 38 50.3	- 5 38 51.5	- 5 38 52.6	- 5 38 53.7	- 5 38 54.7
140 17 30	- 5 41 01.0	- 5 41 02.2	- 5 41 03.3	- 5 41 04.4	- 5 41 05.5
140 20 00	- 5 43 11.7	- 5 43 12.9	- 5 43 14.1	- 5 43 15.2	- 5 43 16.3
140 22 30	- 5 45 22.4	- 5 45 23.6	- 5 45 24.9	- 5 45 26.0	- 5 45 27.1
140 25 00	- 5 47 33.1	- 5 47 34.4	- 5 47 35.6	- 5 47 36.8	- 5 47 37.9
140 27 30	- 5 49 43.8	- 5 49 45.2	- 5 49 46.4	- 5 49 47.6	- 5 49 48.8
140 30 00	- 5 51 54.6	- 5 51 55.9	- 5 51 57.2	- 5 51 58.5	- 5 51 59.7
140 32 30	- 5 54 05.4	- 5 54 06.7	- 5 54 08.1	- 5 54 09.3	- 5 54 10.5
140 35 00	- 5 56 16.1	- 5 56 17.5	- 5 56 18.9	- 5 56 20.2	- 5 56 21.4
140 37 30	- 5 58 26.9	- 5 58 28.4	- 5 58 29.7	- 5 58 31.1	- 5 58 32.3
140 40 00	- 6 00 37.7	- 6 00 39.2	- 6 00 40.6	- 6 00 42.0	- 6 00 43.3
140 42 30	- 6 02 48.5	- 6 02 50.0	- 6 02 51.5	- 6 02 52.9	- 6 02 54.2
140 45 00	- 6 04 59.4	- 6 05 00.9	- 6 05 02.4	- 6 05 03.8	- 6 05 05.1
140 47 30	- 6 07 10.2	- 6 07 11.8	- 6 07 13.3	- 6 07 14.7	- 6 07 16.1
140 50 00	- 6 09 21.1	- 6 09 22.7	- 6 09 24.2	- 6 09 25.7	- 6 09 27.1
140 52 30	- 6 11 32.0	- 6 11 33.6	- 6 11 35.1	- 6 11 36.6	- 6 11 38.1
140 55 00	- 6 13 42.9	- 6 13 44.5	- 6 13 46.1	- 6 13 47.6	- 6 13 49.1
140 57 30	- 6 15 53.8	- 6 15 55.4	- 6 15 57.0	- 6 15 58.6	- 6 16 00.1
141 00 00	- 6 18 04.7	- 6 18 06.4	- 6 18 08.0	- 6 18 09.6	- 6 18 11.1
141 02 30	- 6 20 15.6	- 6 20 17.3	- 6 20 19.0	- 6 20 20.6	- 6 20 22.1
141 05 00	- 6 22 26.6	- 6 22 28.3	- 6 22 30.0	- 6 22 31.6	- 6 22 33.2
141 07 30	- 6 24 37.5	- 6 24 39.3	- 6 24 41.0	- 6 24 42.7	- 6 24 44.3
141 10 00	- 6 26 48.5	- 6 26 50.3	- 6 26 52.0	- 6 26 53.7	- 6 26 55.4
141 12 30	- 6 28 59.5	- 6 29 01.3	- 6 29 03.1	- 6 29 04.8	- 6 29 06.5
141 15 00	- 6 31 10.5	- 6 31 12.3	- 6 31 14.1	- 6 31 15.9	- 6 31 17.6
141 17 30	- 6 33 21.5	- 6 33 23.4	- 6 33 25.2	- 6 33 27.0	- 6 33 28.7
141 20 00	- 6 35 32.5	- 6 35 34.4	- 6 35 36.3	- 6 35 38.1	- 6 35 39.8
141 22 30	- 6 37 43.6	- 6 37 45.5	- 6 37 47.4	- 6 37 49.2	- 6 37 51.0
141 25 00	- 6 39 54.6	- 6 39 56.6	- 6 39 58.5	- 6 40 00.4	- 6 40 02.2
141 27 30	- 6 42 05.7	- 6 42 07.7	- 6 42 09.6	- 6 42 11.5	- 6 42 13.3
141 30 00	- 6 44 16.8	- 6 44 18.8	- 6 44 20.8	- 6 44 22.7	- 6 44 24.5

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	60 10 00	60 12 30	60 15 00	60 17 30	60 20 00
139 00 00	0.9999037	0.9999024	0.9999014	0.9999006	0.9999000
139 02 30	0.9999045	0.9999031	0.9999019	0.9999010	0.9999003
139 05 00	0.9999053	0.9999038	0.9999025	0.9999015	0.9999006
139 07 30	0.9999063	0.9999046	0.9999032	0.9999020	0.9999011
139 10 00	0.9999073	0.9999055	0.9999040	0.9999027	0.9999016
139 12 30	0.9999084	0.9999065	0.9999048	0.9999034	0.9999021
139 15 00	0.9999096	0.9999075	0.9999057	0.9999041	0.9999028
139 17 30	0.9999108	0.9999086	0.9999067	0.9999050	0.9999035
139 20 00	0.9999121	0.9999098	0.9999078	0.9999059	0.9999043
139 22 30	0.9999135	0.9999111	0.9999089	0.9999069	0.9999051
139 25 00	0.9999150	0.9999124	0.9999101	0.9999080	0.9999061
139 27 30	0.9999165	0.9999138	0.9999113	0.9999091	0.9999071
139 30 00	0.9999181	0.9999153	0.9999127	0.9999103	0.9999082
139 32 30	0.9999198	0.9999168	0.9999141	0.9999116	0.9999093
139 35 00	0.9999216	0.9999184	0.9999156	0.9999129	0.9999105
139 37 30	0.9999234	0.9999201	0.9999171	0.9999143	0.9999118
139 40 00	0.9999253	0.9999219	0.9999187	0.9999158	0.9999132
139 42 30	0.9999272	0.9999237	0.9999204	0.9999174	0.9999146
139 45 00	0.9999293	0.9999256	0.9999222	0.9999190	0.9999161
139 47 30	0.9999314	0.9999276	0.9999240	0.9999207	0.9999177
139 50 00	0.9999335	0.9999296	0.9999260	0.9999225	0.9999193
139 52 30	0.9999358	0.9999317	0.9999279	0.9999244	0.9999210
139 55 00	0.9999381	0.9999339	0.9999300	0.9999263	0.9999228
139 57 30	0.9999405	0.9999362	0.9999321	0.9999283	0.9999247
140 00 00	0.9999429	0.9999385	0.9999343	0.9999303	0.9999266
140 02 30	0.9999455	0.9999409	0.9999365	0.9999324	0.9999286
140 05 00	0.9999481	0.9999434	0.9999389	0.9999346	0.9999306
140 07 30	0.9999507	0.9999459	0.9999413	0.9999369	0.9999328
140 10 00	0.9999535	0.9999485	0.9999437	0.9999392	0.9999350
140 12 30	0.9999563	0.9999512	0.9999463	0.9999417	0.9999373
140 15 00	0.9999592	0.9999539	0.9999489	0.9999441	0.9999396
140 17 30	0.9999621	0.9999567	0.9999516	0.9999467	0.9999420
140 20 00	0.9999651	0.9999596	0.9999543	0.9999493	0.9999445
140 22 30	0.9999682	0.9999626	0.9999571	0.9999520	0.9999470
140 25 00	0.9999714	0.9999656	0.9999600	0.9999547	0.9999497
140 27 30	0.9999746	0.9999687	0.9999630	0.9999575	0.9999523
140 30 00	0.9999779	0.9999718	0.9999660	0.9999604	0.9999551
140 32 30	0.9999812	0.9999751	0.9999691	0.9999634	0.9999579
140 35 00	0.9999847	0.9999783	0.9999723	0.9999664	0.9999608
140 37 30	0.9999882	0.9999817	0.9999755	0.9999695	0.9999638
140 40 00	0.9999917	0.9999851	0.9999788	0.9999727	0.9999668
140 42 30	0.9999954	0.9999886	0.9999821	0.9999759	0.9999699
140 45 00	0.9999991	0.9999922	0.9999856	0.9999792	0.9999731
140 47 30	1.0000029	0.9999958	0.9999891	0.9999826	0.9999763
140 50 00	1.0000067	0.9999996	0.9999926	0.9999860	0.9999796
140 52 30	1.0000106	1.0000033	0.9999963	0.9999895	0.9999829
140 55 00	1.0000146	1.0000072	1.0000000	0.9999931	0.9999864
140 57 30	1.0000186	1.0000111	1.0000038	0.9999967	0.9999899
141 00 00	1.0000227	1.0000150	1.0000076	1.0000004	0.9999934
141 02 30	1.0000269	1.0000191	1.0000115	1.0000042	0.9999971
141 05 00	1.0000312	1.0000232	1.0000155	1.0000080	1.0000008
141 07 30	1.0000355	1.0000274	1.0000195	1.0000119	1.0000046
141 10 00	1.0000399	1.0000316	1.0000236	1.0000159	1.0000084
141 12 30	1.0000443	1.0000359	1.0000278	1.0000199	1.0000123
141 15 00	1.0000488	1.0000403	1.0000320	1.0000240	1.0000163
141 17 30	1.0000534	1.0000448	1.0000363	1.0000282	1.0000203
141 20 00	1.0000580	1.0000493	1.0000407	1.0000324	1.0000244
141 22 30	1.0000628	1.0000538	1.0000452	1.0000367	1.0000286
141 25 00	1.0000675	1.0000585	1.0000497	1.0000411	1.0000328
141 27 30	1.0000724	1.0000632	1.0000542	1.0000455	1.0000371
141 30 00	1.0000773	1.0000680	1.0000589	1.0000500	1.0000414

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
γ(GAMMA) ANGLES

λ \ φ	60 20 00	60 22 30	60 25 00	60 27 30	60 30 00
139 00 00	- 4 33 37.1	- 4 33 37.2	- 4 33 37.2	- 4 33 37.2	- 4 33 37.1
139 02 30	- 4 35 47.5	- 4 35 47.6	- 4 35 47.7	- 4 35 47.7	- 4 35 47.6
139 05 00	- 4 37 57.9	- 4 37 58.0	- 4 37 58.1	- 4 37 58.2	- 4 37 58.1
139 07 30	- 4 40 08.3	- 4 40 08.5	- 4 40 08.6	- 4 40 08.7	- 4 40 08.7
139 10 00	- 4 42 18.8	- 4 42 19.0	- 4 42 19.1	- 4 42 19.2	- 4 42 19.2
139 12 30	- 4 44 29.2	- 4 44 29.4	- 4 44 29.6	- 4 44 29.7	- 4 44 29.8
139 15 00	- 4 46 39.7	- 4 46 39.9	- 4 46 40.1	- 4 46 40.3	- 4 46 40.4
139 17 30	- 4 48 50.1	- 4 48 50.4	- 4 48 50.6	- 4 48 50.8	- 4 48 50.9
139 20 00	- 4 51 00.6	- 4 51 00.9	- 4 51 01.2	- 4 51 01.4	- 4 51 01.6
139 22 30	- 4 53 11.1	- 4 53 11.5	- 4 53 11.7	- 4 53 12.0	- 4 53 12.2
139 25 00	- 4 55 21.6	- 4 55 22.0	- 4 55 22.3	- 4 55 22.6	- 4 55 22.8
139 27 30	- 4 57 32.1	- 4 57 32.6	- 4 57 32.9	- 4 57 33.2	- 4 57 33.4
139 30 00	- 4 59 42.7	- 4 59 43.1	- 4 59 43.5	- 4 59 43.8	- 4 59 44.1
139 32 30	- 5 01 53.2	- 5 01 53.7	- 5 01 54.1	- 5 01 54.5	- 5 01 54.8
139 35 00	- 5 04 03.8	- 5 04 04.3	- 5 04 04.7	- 5 04 05.1	- 5 04 05.5
139 37 30	- 5 06 14.4	- 5 06 14.9	- 5 06 15.4	- 5 06 15.8	- 5 06 16.2
139 40 00	- 5 08 25.0	- 5 08 25.5	- 5 08 26.0	- 5 08 26.5	- 5 08 26.9
139 42 30	- 5 10 35.6	- 5 10 36.2	- 5 10 36.7	- 5 10 37.2	- 5 10 37.6
139 45 00	- 5 12 46.2	- 5 12 46.8	- 5 12 47.4	- 5 12 47.9	- 5 12 48.3
139 47 30	- 5 14 56.8	- 5 14 57.5	- 5 14 58.1	- 5 14 58.6	- 5 14 59.1
139 50 00	- 5 17 07.5	- 5 17 08.1	- 5 17 08.8	- 5 17 09.3	- 5 17 09.8
139 52 30	- 5 19 18.1	- 5 19 18.8	- 5 19 19.5	- 5 19 20.1	- 5 19 20.6
139 55 00	- 5 21 28.8	- 5 21 29.5	- 5 21 30.2	- 5 21 30.8	- 5 21 31.4
139 57 30	- 5 23 39.5	- 5 23 40.3	- 5 23 41.0	- 5 23 41.6	- 5 23 42.2
140 00 00	- 5 25 50.2	- 5 25 51.0	- 5 25 51.7	- 5 25 52.4	- 5 25 53.0
140 02 30	- 5 28 00.9	- 5 28 01.7	- 5 28 02.5	- 5 28 03.2	- 5 28 03.9
140 05 00	- 5 30 11.6	- 5 30 12.5	- 5 30 13.3	- 5 30 14.0	- 5 30 14.7
140 07 30	- 5 32 22.4	- 5 32 23.3	- 5 32 24.1	- 5 32 24.8	- 5 32 25.6
140 10 00	- 5 34 33.1	- 5 34 34.0	- 5 34 34.9	- 5 34 35.7	- 5 34 36.4
140 12 30	- 5 36 43.9	- 5 36 44.8	- 5 36 45.7	- 5 36 46.5	- 5 36 47.3
140 15 00	- 5 38 54.7	- 5 38 55.6	- 5 38 56.6	- 5 38 57.4	- 5 38 58.2
140 17 30	- 5 41 05.5	- 5 41 06.5	- 5 41 07.4	- 5 41 08.3	- 5 41 09.1
140 20 00	- 5 43 16.3	- 5 43 17.3	- 5 43 18.3	- 5 43 19.2	- 5 43 20.0
140 22 30	- 5 45 27.1	- 5 45 28.2	- 5 45 29.2	- 5 45 30.1	- 5 45 31.0
140 25 00	- 5 47 37.9	- 5 47 39.0	- 5 47 40.0	- 5 47 41.0	- 5 47 41.9
140 27 30	- 5 49 48.8	- 5 49 49.9	- 5 49 51.0	- 5 49 51.9	- 5 49 52.9
140 30 00	- 5 51 59.7	- 5 52 00.8	- 5 52 01.9	- 5 52 02.9	- 5 52 03.9
140 32 30	- 5 54 10.5	- 5 54 11.7	- 5 54 12.8	- 5 54 13.9	- 5 54 14.9
140 35 00	- 5 56 21.4	- 5 56 22.6	- 5 56 23.8	- 5 56 24.8	- 5 56 25.9
140 37 30	- 5 58 32.3	- 5 58 33.6	- 5 58 34.7	- 5 58 35.8	- 5 58 36.9
140 40 00	- 6 00 43.3	- 6 00 44.5	- 6 00 45.7	- 6 00 46.8	- 6 00 47.9
140 42 30	- 6 02 54.2	- 6 02 55.5	- 6 02 56.7	- 6 02 57.9	- 6 02 59.0
140 45 00	- 6 05 05.1	- 6 05 06.4	- 6 05 07.7	- 6 05 08.9	- 6 05 10.0
140 47 30	- 6 07 16.1	- 6 07 17.4	- 6 07 18.7	- 6 07 19.9	- 6 07 21.1
140 50 00	- 6 09 27.1	- 6 09 28.4	- 6 09 29.7	- 6 09 31.0	- 6 09 32.2
140 52 30	- 6 11 38.1	- 6 11 39.4	- 6 11 40.8	- 6 11 42.1	- 6 11 43.3
140 55 00	- 6 13 49.1	- 6 13 50.5	- 6 13 51.8	- 6 13 53.1	- 6 13 54.4
140 57 30	- 6 16 00.1	- 6 16 01.5	- 6 16 02.9	- 6 16 04.2	- 6 16 05.5
141 00 00	- 6 18 11.1	- 6 18 12.6	- 6 18 14.0	- 6 18 15.4	- 6 18 16.7
141 02 30	- 6 20 22.1	- 6 20 23.6	- 6 20 25.1	- 6 20 26.5	- 6 20 27.8
141 05 00	- 6 22 33.2	- 6 22 34.7	- 6 22 36.2	- 6 22 37.6	- 6 22 39.0
141 07 30	- 6 24 44.3	- 6 24 45.8	- 6 24 47.3	- 6 24 48.8	- 6 24 50.2
141 10 00	- 6 26 55.4	- 6 26 56.9	- 6 26 58.5	- 6 26 59.9	- 6 27 01.4
141 12 30	- 6 29 06.5	- 6 29 08.1	- 6 29 09.6	- 6 29 11.1	- 6 29 12.6
141 15 00	- 6 31 17.6	- 6 31 19.2	- 6 31 20.8	- 6 31 22.3	- 6 31 23.8
141 17 30	- 6 33 28.7	- 6 33 30.4	- 6 33 32.0	- 6 33 33.5	- 6 33 35.0
141 20 00	- 6 35 39.8	- 6 35 41.5	- 6 35 43.2	- 6 35 44.8	- 6 35 46.3
141 22 30	- 6 37 51.0	- 6 37 52.7	- 6 37 54.4	- 6 37 56.0	- 6 37 57.5
141 25 00	- 6 40 02.2	- 6 40 03.9	- 6 40 05.6	- 6 40 07.2	- 6 40 08.8
141 27 30	- 6 42 13.3	- 6 42 15.1	- 6 42 16.8	- 6 42 18.5	- 6 42 20.1
141 30 00	- 6 44 24.5	- 6 44 26.3	- 6 44 28.1	- 6 44 29.8	- 6 44 31.4

Geodetic azimuth=Grid azimuth + γ

$$+\frac{1}{1.277 \times 10^{10}}\left[-.6(x_2-x_1)+.8(y_2-y_1)\right]\left[.8(x_2+2x_1)+.6(y_2+2y_1)-9{,}842{,}500\right]$$

The last term is the arc-to-chord, or T − t, correction which is needed only for long lines or for more accuracy on short lines.

ALASKA-ZONE 1
STATE PLANE COORDINATE SYSTEM
SCALE FACTORS

λ \ φ	60 20 00	60 22 30	60 25 00	60 27 30	60 30 00
139 00 00	0.9999000	0.9998997	0.9998996	0.9998997	0.9999000
139 02 30	0.9999003	0.9998998	0.9998996	0.9998996	0.9998998
139 05 00	0.9999006	0.9999000	0.9998997	0.9998995	0.9998996
139 07 30	0.9999011	0.9999003	0.9998998	0.9998996	0.9998995
139 10 00	0.9999016	0.9999007	0.9999001	0.9998997	0.9998995
139 12 30	0.9999021	0.9999012	0.9999004	0.9998999	0.9998996
139 15 00	0.9999028	0.9999017	0.9999008	0.9999001	0.9998997
139 17 30	0.9999035	0.9999023	0.9999012	0.9999004	0.9998999
139 20 00	0.9999043	0.9999029	0.9999018	0.9999008	0.9999002
139 22 30	0.9999051	0.9999036	0.9999024	0.9999013	0.9999005
139 25 00	0.9999061	0.9999044	0.9999030	0.9999019	0.9999009
139 27 30	0.9999071	0.9999053	0.9999038	0.9999025	0.9999014
139 30 00	0.9999082	0.9999063	0.9999046	0.9999031	0.9999019
139 32 30	0.9999093	0.9999073	0.9999055	0.9999039	0.9999026
139 35 00	0.9999105	0.9999084	0.9999064	0.9999047	0.9999033
139 37 30	0.9999118	0.9999095	0.9999074	0.9999056	0.9999040
139 40 00	0.9999132	0.9999107	0.9999085	0.9999066	0.9999049
139 42 30	0.9999146	0.9999120	0.9999097	0.9999076	0.9999058
139 45 00	0.9999161	0.9999134	0.9999109	0.9999087	0.9999067
139 47 30	0.9999177	0.9999148	0.9999123	0.9999099	0.9999078
139 50 00	0.9999193	0.9999164	0.9999136	0.9999111	0.9999089
139 52 30	0.9999210	0.9999179	0.9999151	0.9999125	0.9999101
139 55 00	0.9999228	0.9999196	0.9999166	0.9999139	0.9999113
139 57 30	0.9999247	0.9999213	0.9999182	0.9999153	0.9999127
140 00 00	0.9999266	0.9999231	0.9999198	0.9999168	0.9999141
140 02 30	0.9999286	0.9999250	0.9999216	0.9999184	0.9999155
140 05 00	0.9999306	0.9999269	0.9999234	0.9999201	0.9999171
140 07 30	0.9999328	0.9999289	0.9999252	0.9999218	0.9999187
140 10 00	0.9999350	0.9999310	0.9999272	0.9999236	0.9999203
140 12 30	0.9999373	0.9999331	0.9999292	0.9999255	0.9999221
140 15 00	0.9999396	0.9999353	0.9999313	0.9999275	0.9999239
140 17 30	0.9999420	0.9999376	0.9999334	0.9999295	0.9999258
140 20 00	0.9999445	0.9999399	0.9999356	0.9999315	0.9999277
140 22 30	0.9999470	0.9999423	0.9999379	0.9999337	0.9999297
140 25 00	0.9999497	0.9999448	0.9999402	0.9999359	0.9999318
140 27 30	0.9999523	0.9999474	0.9999427	0.9999382	0.9999340
140 30 00	0.9999551	0.9999500	0.9999452	0.9999405	0.9999362
140 32 30	0.9999579	0.9999527	0.9999477	0.9999430	0.9999385
140 35 00	0.9999608	0.9999554	0.9999503	0.9999455	0.9999408
140 37 30	0.9999638	0.9999583	0.9999530	0.9999480	0.9999433
140 40 00	0.9999668	0.9999612	0.9999558	0.9999506	0.9999457
140 42 30	0.9999699	0.9999641	0.9999586	0.9999533	0.9999483
140 45 00	0.9999731	0.9999672	0.9999615	0.9999561	0.9999509
140 47 30	0.9999763	0.9999703	0.9999645	0.9999589	0.9999536
140 50 00	0.9999796	0.9999734	0.9999675	0.9999618	0.9999564
140 52 30	0.9999829	0.9999766	0.9999706	0.9999648	0.9999592
140 55 00	0.9999864	0.9999799	0.9999738	0.9999678	0.9999621
140 57 30	0.9999899	0.9999833	0.9999770	0.9999709	0.9999651
141 00 00	0.9999934	0.9999867	0.9999803	0.9999741	0.9999681
141 02 30	0.9999971	0.9999902	0.9999836	0.9999773	0.9999712
141 05 00	1.0000008	0.9999938	0.9999871	0.9999806	0.9999744
141 07 30	1.0000046	0.9999974	0.9999906	0.9999840	0.9999776
141 10 00	1.0000084	1.0000011	0.9999941	0.9999874	0.9999809
141 12 30	1.0000123	1.0000049	0.9999978	0.9999909	0.9999842
141 15 00	1.0000163	1.0000087	1.0000015	0.9999944	0.9999877
141 17 30	1.0000203	1.0000126	1.0000052	0.9999981	0.9999912
141 20 00	1.0000244	1.0000166	1.0000091	1.0000018	0.9999947
141 22 30	1.0000286	1.0000206	1.0000130	1.0000055	0.9999983
141 25 00	1.0000328	1.0000247	1.0000169	1.0000093	1.0000020
141 27 30	1.0000371	1.0000289	1.0000209	1.0000132	1.0000058
141 30 00	1.0000414	1.0000331	1.0000250	1.0000172	1.0000096

(Geodetic length) x (Scale factor) = Grid length

Mean scale factor for a line = $k_m = \frac{1}{6}(k_1 + 4k_3 + k_2)$

where k_3 is the scale factor at the midpoint.

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