

121-A
ULMA (0002)

OMB Approved 2120-0557
Expires 3/31/2010

| | | | |
|---|--|--|---|
|  Federal Aviation Administration | | Airport Surveying-GIS Program | |
| | | GPS Observation Log Sheet | |
| Station Designation <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> PAC <input type="checkbox"/> SAC <input type="checkbox"/> BM | | Station PID DN6934 | Date (UTC) 5/1/2013 |
| General Location NEW ULM, MN | | Station 4 Character ID ULMA | Day of Year 121 |
| Geographic Coordinates (NAD83) Latitude: N ° ' " Longitude: W ° ' " | | Project Number GPS - | Airport ID ULM |
| Observation Session Times (UTC) | | NAD83 Ellipsoid Height Meters | |
| Scheduled Start 18 : 30 Stop 23 : 00 | NAVD88 Orthometric Height Meters | | GEOID ____ GEOID Height Meters |
| Actual Start 18 : 31 Stop 00 : 35 | Epoch Interval = 15 Seconds Elevation Mask = 15 Degrees | | |
| Project Name ULM PACS | Station Serial Number (SSN) 10011 | Session ID A | |
| Agency/Company | Operator Name | Telephone Number | Email address |
| Answer Yes or No to each question, if No explain | | | |
| Antenna plumb before session? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Explanation |
| Antenna plumb after session? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Antenna oriented to true north? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| Weather observed at antenna height? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| Antenna ground plane used | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| Antenna radome used? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| Eccentric observation (> 0.5 mm)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| Any obstructions above 10°? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| Radio interference source nearby? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | NDB |
| Receiver | | Antenna | |
| Brand | TRIMBLE | Brand | |
| Model | R8-3 | Model | |
| Part Number | 60153-00 | Part Number | |
| Serial Number | 5043452482 | Serial Number | |
| Firmware Version | 4.43 | Cable Length (meters) | |
| <input type="checkbox"/> Camcorder battery <input checked="" type="checkbox"/> 12V DC <input type="checkbox"/> 110V AC | | Vehicle is parked _____ meters _____ (direction) from antenna | |
| Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately 5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20. | | | |

| GPS Observation Log Sheet (continued) | | Station Designation: PAC ULMA | |
|---|--------------------------|---|--|
| Tripod | | Psychrometer (if used) | |
| Brand | SECO | Brand | |
| Model | | Model | |
| Part Number | S115-00-FLY | Part Number | |
| Serial Number Lot# | 11RJA-1 Sep 11 | Serial Number | |
| Last Adjustment Date | 5-1-2013 | Last calibration or check date: | |
| <input checked="" type="checkbox"/> Fixed leg tripod <input type="checkbox"/> Collapsible - leg tripod <input type="checkbox"/> Fixed Mount | | Barometer (if used) | |
| | | Brand | |
| | | Model | |
| | | Serial Number | |
| Antenna Height | | Before Session Begins | After Session Ends |
| | | Meters | Feet |
| A = Datum point to top of tripod (Tripod Height) | | 2.000 | |
| B = Additional offset to ARP if any (Tribach/spacer) | | - | |
| H = Antenna Height = A + B = Datum point to ARP | | 2.000 | |
| Meters = feet × 0.3048 | | Height entered into receiver = 2.000 meters | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | |
| Weather Data | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp Fahrenheit Celsius |
| | | | Wet Bulb Temp Fahrenheit Celsius |
| | | | Rel % Humidity |
| | | | Atm Press. In Hg mB |
| Before | 01021 | 1831 | 38 |
| Middle | 01020 | 2137 | 39 |
| After | 01021 | 0035 | 41 |
| Weather Codes | | | |
| Code | Problem | Visibility | Temperature |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F |
| | | | Cloud Cover |
| | | | Clear, below 20% |
| | | | Cloudy 20 - 70% |
| | | | Overcast more than 70% |
| | | | Wind |
| | | | Calm, under 5 mph |
| | | | Moderate 5 - 15 mph |
| | | | Strong over 15 mph |
| Example: 00000 = No problem, good visibility, normal temp, clear, clam wind | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | |
| Updated Station description | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Station Location Sketch and Visibility Diagram | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Photographs of station | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Pencil Rubbing of mark | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Data File names (standard NGS format = aaaaddds.xxx | | | |
| Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | |
| Log Checked by | Printed Name: [REDACTED] | | |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | |

121-A
E115 (0003)

| | | | |
|---|---|--|------------------------|
|  Federal Aviation Administration | | Airport Surveying-GIS Program | |
| | | GPS Observation Log Sheet | |
| Station Designation <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> PAC <input type="checkbox"/> SAC <input checked="" type="checkbox"/> BM | | Station PID PQ0139 | Date (UTC) 5/1/2013 |
| General Location NEW ULM, MN | | Station 4 Character ID E115 | Day of Year 121 |
| Geographic Coordinates (NAD83) Latitude: N ° ' '' Longitude: W ° ' '' | | Project Number GPS - | Airport ID ULM |
| Observation Session Times (UTC) | | NAD83 Ellipsoid Height Meters | |
| Scheduled Start 18 : 30 Stop 23 : 00 | NAVD88 Orthometric Height Meters | | Meters |
| Actual Start 18 : 55 Stop 00 : 07 | GEOID ____ GEOID Height | | |
| Epoch Interval = 15 Seconds Elevation Mask = 15 Degrees | | | |
| Project Name ULMPACS | Station Serial Number (SSN) 1004 4 | Session ID A | |
| Agency/Company | Operator Name | Telephone Number | Email address |
| Answer Yes or No to each question, if No explain | | | |
| Yes | No | Explanation | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Antenna plumb before session? | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Antenna plumb after session? | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Antenna oriented to true north? | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Weather observed at antenna height? | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Antenna ground plane used | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Antenna radome used? | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Eccentric observation (> 0.5 mm)? | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any obstructions above 10°? | |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Radio interference source nearby? | |
| Receiver | | Antenna | |
| Brand | TRIMBLE | Brand | |
| Model | RB-3 | Model | |
| Part Number | 60158-00 | Part Number | |
| Serial Number | 5043452506 | Serial Number | |
| Firmware Version | 4.43 | Cable Length (meters) | |
| <input type="checkbox"/> Camcorder battery <input checked="" type="checkbox"/> 12V DC <input type="checkbox"/> 110V AC <input type="checkbox"/> Other (specify): | | Vehicle is parked _____ meters _____ (direction) from antenna | |
| Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately 5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20. | | | |

| GPS Observation Log Sheet (continued) | | Station Designation: BM E115 | | | | | | | |
|---|-------------------|--|--------------------|-----------------------------------|------------------------|--|---------------------|------------|----|
| Tripod | | Psychrometer (if used) | | | | | | | |
| Brand | SECO | Brand | | | | | | | |
| Model | | Model | | | | | | | |
| Part Number | S115-00-FLY | Part Number | | | | | | | |
| Serial Number | Lot# 10RZL Feb 10 | Serial Number | | | | | | | |
| Last Adjustment Date | | Last calibration or check date: | | | | | | | |
| <input checked="" type="checkbox"/> Fixed leg tripod | | Barometer (if used) | | | | | | | |
| <input type="checkbox"/> Collapsible - leg tripod | | Brand | | | | | | | |
| <input type="checkbox"/> Fixed Mount | | Model | | | | | | | |
| | | Serial Number | | | | | | | |
| Antenna Height | | Before Session Begins | After Session Ends | | | | | | |
| | | Meters | Feet | Meters | Feet | | | | |
| A = Datum point to top of tripod (Tripod Height) | | 2.000 | | 2.000 | | | | | |
| B = Additional offset to ARP if any (Tribach/spacer) | | - | | - | | | | | |
| H = Antenna Height = A + B = Datum point to ARP | | 2.000 | | 2.000 | | | | | |
| Meters = feet × 0.3048 | | Height entered into receiver = <u>2.000</u> meters | | | | | | | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | | | | | | | |
| Weather Data | | | | | | | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp | | Wet Bulb Temp | | Rel % Humidity | Atm Press. | |
| | | | Fahrenheit | Celsius | Fahrenheit | Celsius | | In Hg | mB |
| Before | 01020 | 1855 | 38 | | | | | | |
| Middle | 01020 | 2209 | 39 | | | | | | |
| After | 01020 | 0007 | 41 | | | | | | |
| Weather Codes | | | | | | | | | |
| Code | Problem | Visibility | Temperature | | Cloud Cover | | Wind | | |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F | | Clear, below 20% | | Calm, under 5 mph | | |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F | | Cloudy 20 - 70% | | Moderate 5 - 15 mph | | |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F | | Overcast more than 70% | | Strong over 15 mph | | |
| Example: 00000 = No problem, good visibility, normal temp, clear, clam wind | | | | | | | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | | | | | | | |
| Updated Station description | | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | |
| Station Location Sketch and Visibility Diagram | | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | |
| Photographs of station | | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | |
| Pencil Rubbing of mark | | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | |
| Data File names (standard NGS format = aaaaddds.xxx | | | | | | | | | |
| Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | | | | | | | |
| Log Checked by | | Printed Name: | | | | Initials: ARC | | | |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | | | | | | | |

CBN1 121-A (0001)
 5208 K - SESSION A

OMB Approved 2120-0557
 Expires 3/31/2010



Federal Aviation
 Administration

Airport Surveying-GIS Program

GPS Observation Log Sheet

| | | | | | |
|---|---|---------------------------------------|--|---|-----------------|
| Station Designation | | | | Station PID | Date (UTC) |
| <input type="checkbox"/> FBN | <input checked="" type="checkbox"/> CBN | <input type="checkbox"/> PAC | <input type="checkbox"/> SAC | <input type="checkbox"/> BM | AC4890 5/1/2013 |
| General Location NEW ULM, MN | | | Station 4 Character ID CBN1 | Day of Year 121 | |
| Geographic Coordinates (NAD83) Latitude: N ° ' " Longitude: W ° ' " | | | Project Number GPS - | Airport ID ULM | |
| Observation Session Times (UTC) | | | NAD83 Ellipsoid Height Meters | | |
| Scheduled Start | 18 : 30 | Stop | 23 : 00 | NAVD88 Orthometric Height Meters | |
| Actual Start | 18 : 32 | Stop | 23 : 50 | GEOID ____ GEOID Height Meters | |
| Epoch Interval | = 15 | Seconds | | | |
| Elevation Mask | = 15 | Degrees | | | |
| Project Name ULM-123655 | | Station Serial Number (SSN) 1006 6 | | Session ID A | |
| Agency/Company | Operator Name | Telephone Number | Email address | | |

| Answer Yes or No to each question, if No explain | Yes | No | Explanation |
|--|-------------------------------------|-------------------------------------|-------------|
| Antenna plumb before session? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Antenna plumb after session? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Antenna oriented to true north? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Weather observed at antenna height? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Antenna ground plane used | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Antenna radome used? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Eccentric observation (> 0.5 mm)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Any obstructions above 10°? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Radio interference source nearby? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

| Receiver | | Antenna | |
|--|--|----------------------------------|--------------------------------------|
| Brand | TRIMBLE | Brand | |
| Model | R8 - MODEL 3 | Model | |
| Part Number | 67250-66 | Part Number | |
| Serial Number | 521148 4425 | Serial Number | |
| Firmware Version | 4.43 | Cable Length (meters) | |
| <input type="checkbox"/> Camcorder battery | <input checked="" type="checkbox"/> 12V DC | <input type="checkbox"/> 110V AC | Vehicle is parked _____ meters _____ |
| <input type="checkbox"/> Other (specify): | | (direction) from antenna | |

Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately 5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20.

CHECK SETUP AT 5208 K

| Time | PDOP | SATS | BUBBLE | BATTERY | |
|------|------|------|--------|---------|-------------------|
| 3:45 | 2.3 | 8 | OK | 70% | |
| 4:36 | 2.1 | 9 | OK | 70% | RAIN/ MIX/SNOW |
| 5:15 | 2.5 | 8 | OK | 70% | LIGHT RAIN |
| 6:00 | 2.1 | 8 | OK | 70% | NO PRECIP |
| 6:50 | | | | | NO PRECIP |
| | SOP | | | | |

5208 K - SESSION A

| GPS Observation Log Sheet (continued) | | | | Station Designation: | | | | | |
|---|---------------|--------------------|--------------------------|---|--------------------------|--|---------------------|------------------|---------------|
| Tripod | | | | Psychrometer (if used) | | | | | |
| Brand | SECO | | | Brand | | | | | |
| Model | 2m Fixed HT | | | Model | | | | | |
| Part Number | S15-00-FLY | | | Part Number | | | | | |
| Serial Number | 11RJA(2) | | | Serial Number | | | | | |
| Last Adjustment Date | 5/1/13 | | | Last calibration or check date: | | | | | |
| <input checked="" type="checkbox"/> Fixed leg tripod | | | | Barometer (if used) | | | | | |
| <input type="checkbox"/> Collapsible - leg tripod | | | | Brand | | | | | |
| <input type="checkbox"/> Fixed Mount | | | | Model | | | | | |
| | | | | Serial Number | | | | | |
| Antenna Height | | | | Before Session Begins | | After Session Ends | | | |
| | | | | Meters | Feet | Meters | Feet | | |
| A = Datum point to top of tripod (Tripod Height) | | | | 2.00 | | | | | |
| B = Additional offset to ARP if any (Tribach/spacer) | | | | 0.0 | | | | | |
| H = Antenna Height = A + B = Datum point to ARP | | | | 2.00 | | | | | |
| Meters = feet × 0.3048 | | | | Height entered into receiver = <u>2.00</u> meters | | | | | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | | | | | | | |
| Weather Data | | | | | | | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp Fahrenheit | Dry-Bulb Temp Celsius | Wet Bulb Temp Fahrenheit | Wet Bulb Temp Celsius | Rel % Humidity | Atm Press. In Hg | Atm Press. mB |
| Before | 02021 | 18:30 | 37°F | | | | | | |
| Middle | 02021 | 21:30 | 38°F | | | | | | |
| After | 01020 | 23:50 | 53°F | | | | | | |
| Weather Codes | | | | | | | | | |
| Code | Problem | Visibility | Temperature | | Cloud Cover | | Wind | | |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F | | Clear, below 20% | | Calm, under 5 mph | | |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F | | Cloudy 20 - 70% | | Moderate 5 - 15 mph | | |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F | | Overcast more than 70% | | Strong over 15 mph | | |
| Example: 00000 = No problem, good visibility, normal temp, clear, clam wind | | | | | | | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | | | | | | | |
| Updated Station description | | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | |
| Station Location Sketch and Visibility Diagram | | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | |
| Photographs of station | | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | |
| Pencil Rubbing of mark | | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | |
| Data File names (standard NGS format = aaaaddds.xxx | | | | | | | | | |
| Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | | | | | | | |
| Log Checked by | | Printed Name: | | | | Initials: | | DRC | |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | | | | | | | |
| SNOWING, PHOTOS OF DISK & SET UP, SNOW GAIN @ 2:40 All Reviews ON @ 2:20 OR 19:20 @ 2:49 Adjust Bubble slightly | | | | | | | | | |

121-A (0004)
 BMO2

OMB Approved 2120-0557
 Expires 3/31/2010

| | | | |
|---|--|--|------------------------|
|  Federal Aviation Administration | | Airport Surveying-GIS Program | |
| | | GPS Observation Log Sheet | |
| Station Designation <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> PAC <input type="checkbox"/> SAC <input checked="" type="checkbox"/> BM | | Station PID PQ1711 | Date (UTC) 5/1/2013 |
| General Location NEW ULM MN | | Station 4 Character ID BMO2 | Day of Year 121 |
| Geographic Coordinates (NAD83) Latitude: N ° ' " Longitude: W ° ' " | | Project Number GPS - | Airport ID ULM |
| Observation Session Times (UTC) | | NAD83 Ellipsoid Height Meters | |
| Scheduled Start 18 : 30 Stop 23 : 00 | NAVD88 Orthometric Height Meters | | |
| Actual Start 19 : 20 Stop 23 : 55 | GEOID _____ GEOID Height Meters | | |
| Epoch Interval = 15 Seconds Elevation Mask = 15 Degrees | | | |
| Project Name ULPACS | Station Serial Number (SSN) 1005 S | Session ID A | |
| Agency/Company | Operator Name | Telephone Number | Email address |
| Answer Yes or No to each question, if No explain | | | |
| | Yes | No | Explanation |
| Antenna plumb before session? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Antenna plumb after session? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Antenna oriented to true north? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Weather observed at antenna height? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Antenna ground plane used | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Antenna radome used? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Eccentric observation (> 0.5 mm)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Any obstructions above 10°? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | TREES NW |
| Radio interference source nearby? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Receiver | | Antenna | |
| Brand | TRIMBLE | Brand | |
| Model | R6 | Model | |
| Part Number | 60275-10 | Part Number | |
| Serial Number | 4738139036 | Serial Number | |
| Firmware Version | 4.43 | Cable Length (meters) | |
| <input checked="" type="checkbox"/> Camcorder battery <input type="checkbox"/> 12V DC <input type="checkbox"/> 110V AC <input type="checkbox"/> Other (specify): | Vehicle is parked _____ meters _____ (direction) from antenna | | |
| Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately 5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20. | | | |

| GPS Observation Log Sheet (continued) | | | Station Designation: BM BMDZ | | | | | | |
|---|-------------------|--------------------|--|---------|--|---------------------|----------------------|---------------------|--|
| Tripod | | | Psychrometer (if used) | | | | | | |
| Brand | SECO | | Brand | | | | | | |
| Model | | | Model | | | | | | |
| Part Number | S115-00-FLY | | Part Number | | | | | | |
| Serial Number | Lot# 10RF6 Jan 10 | | Serial Number | | | | | | |
| Last Adjustment Date | 5-1-13 | | Last calibration or check date: | | | | | | |
| <input checked="" type="checkbox"/> Fixed leg tripod <input type="checkbox"/> Collapsible - leg tripod <input type="checkbox"/> Fixed Mount | | | Barometer (if used) | | | | | | |
| | | | Brand | | | | | | |
| | | | Model | | | | | | |
| | | | Serial Number | | | | | | |
| Antenna Height | | | Before Session Begins | | After Session Ends | | | | |
| | | | Meters | Feet | Meters | Feet | | | |
| A = Datum point to top of tripod (Tripod Height) | | | 2.000 | | 2.000 | | | | |
| B = Additional offset to ARP if any (Tribach/spacer) | | | - | | - | | | | |
| H = Antenna Height = A + B = Datum point to ARP | | | 2.000 | | 2.000 | | | | |
| Meters = feet × 0.3048 | | | Height entered into receiver = <u>2.000</u> meters | | | | | | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | | | | | | | |
| Weather Data | | | | | | | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp | | Wet Bulb Temp | | Rel % Humidity | Atm Press. In Hg mB | |
| | | | Fahrenheit | Celsius | Fahrenheit | Celsius | | | |
| Before | 01020 | 1920 | 38 | | | | | | |
| Middle | 01020 | 2224 | 39 | | | | | | |
| After | 01020 | 2355 | 41 | | | | | | |
| Weather Codes | | | | | | | | | |
| Code | Problem | Visibility | Temperature | | Cloud Cover | Wind | | | |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F | | Clear, below 20% | Calm, under 5 mph | | | |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F | | Cloudy 20 - 70% | Moderate 5 - 15 mph | | | |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F | | Overcast more than 70% | Strong over 15 mph | | | |
| Example: 00000 = No problem, good visibility, normal temp, clear, clam wind | | | | | | | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | | | | | | | |
| Updated Station description | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Station Location Sketch and Visibility Diagram | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Photographs of station | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Pencil Rubbing of mark | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Data File names (standard NGS format = aaaaddds.xxx Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | | | | | | | |
| Log Checked by | | Printed Name: | | | | | Initials: <u>NRG</u> | | |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | | | | | | | |
| <div style="text-align: center;"> </div> | | | | | | | | | |

122 A
ULMA (0002)

| | | | | |
|---|---|--|-----------------------|------------------------|
|  Federal Aviation Administration | | Airport Surveying-GIS Program | | |
| | | GPS Observation Log Sheet | | |
| Station Designation <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> PAC <input type="checkbox"/> SAC <input type="checkbox"/> BM | | | Station PID DN6934 | Date (UTC) 5/2/2013 |
| General Location NEW ULM, MN | | Station 4 Character ID ULMA | Day of Year 122 | |
| Geographic Coordinates (NAD83) Latitude: N ° ' " Longitude: W ° ' " | | Project Number GPS - | Airport ID ULM | |
| Observation Session Times (UTC) | | NAD83 Ellipsoid Height Meters | | |
| Scheduled Start 11 : 30 Stop 16 : 00 | NAVD88 Orthometric Height Meters | | Meters | |
| Actual Start 11 : 00 Stop 16 : 43 | GEOID _____ GEOID Height | | | |
| Epoch Interval = 15 Seconds | Elevation Mask = 15 Degrees | | | |
| Project Name ULMPACS | Station Serial Number (SSN) 1001 1 | Session ID B A | | |
| Agency/Company | Operator Name | Telephone Number | Email address | |
| Answer Yes or No to each question, if No explain | | | | |
| Antenna plumb before session? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Explanation | |
| Antenna plumb after session? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Antenna oriented to true north? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Weather observed at antenna height? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Antenna ground plane used | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Antenna radome used? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Eccentric observation (> 0.5 mm)? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Any obstructions above 10°? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Radio interference source nearby? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NDB | |
| Receiver | | Antenna | | |
| Brand | TRIMBLE | Brand | | |
| Model | R8-3 | Model | | |
| Part Number | 60138-00 | Part Number | | |
| Serial Number | 3043452482 | Serial Number | | |
| Firmware Version | 4.43 | Cable Length (meters) | | |
| <input type="checkbox"/> Camcorder battery <input checked="" type="checkbox"/> 12V DC <input type="checkbox"/> 110V AC | | Vehicle is parked _____ meters _____ (direction) from antenna | | |
| Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately 5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20. | | | | |

| | | | | | | | | | |
|---|----------------|-------------------------------|--|---------|--|---------------------|----------------|---------------------|--|
| GPS Observation Log Sheet (continued) | | Station Designation: PAC ULMA | | | | | | | |
| Tripod | | | Psychrometer (if used) | | | | | | |
| Brand | SECO | | Brand | | | | | | |
| Model | | | Model | | | | | | |
| Part Number | S115-00-FLY | | Part Number | | | | | | |
| Serial Number Lot# | 11RJA-1 Sep 11 | | Serial Number | | | | | | |
| Last Adjustment Date | 5-1-2013 | | Last calibration or check date: | | | | | | |
| <input checked="" type="checkbox"/> Fixed leg tripod | | | Barometer (if used) | | | | | | |
| <input type="checkbox"/> Collapsible - leg tripod | | | Brand | | | | | | |
| <input type="checkbox"/> Fixed Mount | | | Model | | | | | | |
| | | | Serial Number | | | | | | |
| Antenna Height | | | Before Session Begins | | After Session Ends | | | | |
| | | | Meters | Feet | Meters | Feet | | | |
| A = Datum point to top of tripod (Tripod Height) | | | 2.000 | | 2.000 | | | | |
| B = Additional offset to ARP if any (Tribach/spacer) | | | - | | - | | | | |
| H = Antenna Height = A + B = Datum point to ARP | | | 2.000 | | 2.000 | | | | |
| Meters = feet × 0.3048 | | | Height entered into receiver = <u>2.000</u> meters | | | | | | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | | | | | | | |
| Weather Data | | | | | | | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp | | Wet Bulb Temp | | Rel % Humidity | Atm Press. In Hg mB | |
| | | | Fahrenheit | Celsius | Fahrenheit | Celsius | | | |
| Before | 00021 | 1100 | 36 | | | | | | |
| Middle | 00022 | 1350 | 36 | | | | | | |
| After | 01022 | 1643 | 41 | | | | | | |
| Weather Codes | | | | | | | | | |
| Code | Problem | Visibility | Temperature | | Cloud Cover | Wind | | | |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F | | Clear, below 20% | Calm, under 5 mph | | | |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F | | Cloudy 20 - 70% | Moderate 5 - 15 mph | | | |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F | | Overcast more than 70% | Strong over 15 mph | | | |
| Example: 00000 = No problem, good visibility, normal temp, clear, clam wind | | | | | | | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | | | | | | | |
| Updated Station description | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Station Location Sketch and Visibility Diagram | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Photographs of station | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Pencil Rubbing of mark | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Data File names (standard NGS format = aaaaddds.xxx | | | | | | | | | |
| Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | | | | | | | |
| Log Checked by | Printed Name: | | | | Initials: DRC | | | | |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | | | | | | | |

122 A
E115 (0003)

OMB Approved 2120-0557
Expires 3/31/2010

| | | | |
|---|---|--|------------------------|
|  Federal Aviation Administration | | Airport Surveying-GIS Program | |
| GPS Observation Log Sheet | | | |
| Station Designation <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> PAC <input type="checkbox"/> SAC <input checked="" type="checkbox"/> BM | | Station PID PQ0139 | Date (UTC) 5/2/2013 |
| General Location New Ulm, MN | | Station 4 Character ID E115 | Day of Year 122 |
| Geographic Coordinates (NAD83) Latitude: N ° ' " Longitude: W ° ' " | | Project Number GPS - | Airport ID ULM |
| Observation Session Times (UTC) | | NAD83 Ellipsoid Height Meters | |
| Scheduled Start 11 : 30 Stop 16 : 00 | NAVD88 Orthometric Height Meters | | Meters |
| Actual Start 11 : 25 Stop 16 : 25 | GEOID _____ GEOID Height | | |
| Epoch Interval = Seconds Elevation Mask = Degrees | Project Name Station Serial Number (SSN) Session ID ULMPACS 1004 4 B | | |
| Agency/Company | Operator Name | Telephone Number | Email address |
| Answer Yes or No to each question, if No explain | | | |
| Antenna plumb before session? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Explanation | |
| Antenna plumb after session? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Antenna oriented to true north? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Weather observed at antenna height? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| Antenna ground plane used | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| Antenna radome used? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| Eccentric observation (> 0.5 mm)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| Any obstructions above 10°? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| Radio interference source nearby? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| Receiver | | Antenna | |
| Brand TRIMBLE | Brand | | |
| Model R8-3 | Model | | |
| Part Number 60158-00 | Part Number | | |
| Serial Number 5043452506 | Serial Number | | |
| Firmware Version 4.43 | Cable Length (meters) | | |
| <input type="checkbox"/> Camcorder battery <input checked="" type="checkbox"/> 12V DC <input type="checkbox"/> 110V AC | Vehicle is parked _____ meters _____ (direction) from antenna | | |
| Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately 5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20. | | | |

| | | | |
|--|-------------------|--|--|
| GPS Observation Log Sheet (continued) | | Station Designation: BM E115 | |
| Tripod | | Psychrometer (if used) | |
| Brand | SECO | Brand | |
| Model | | Model | |
| Part Number | S115-00-FLY | Part Number | |
| Serial Number | Lot# 10R2L Feb 10 | Serial Number | |
| Last Adjustment Date | S-1-2013 | Last calibration or check date: | |
| <input checked="" type="checkbox"/> Fixed leg tripod | | Barometer (if used) | |
| <input type="checkbox"/> Collapsible - leg tripod | | Brand | |
| <input type="checkbox"/> Fixed Mount | | Model | |
| | | Serial Number | |
| Antenna Height | | Before Session Begins | After Session Ends |
| | | Meters | Feet |
| A = Datum point to top of tripod (Tripod Height) | | 2.000 | |
| B = Additional offset to ARP if any (Tribach/spacer) | | - | |
| H = Antenna Height = A + B = Datum point to ARP | | 2.000 | |
| Meters = feet × 0.3048 | | Height entered into receiver = <u>2.000</u> meters | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | |
| Weather Data | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp Fahrenheit Celsius |
| | | | Wet Bulb Temp Fahrenheit Celsius |
| | | | Rel % Humidity |
| | | | Atm Press. In Hg mB |
| Before | 00021 | 1125 | 36 |
| Middle | 01021 | 1410 | 36 |
| After | 01021 | 1625 | 41 |
| Weather Codes | | | |
| Code | Problem | Visibility | Temperature |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F |
| | | | Cloud Cover |
| | | | Wind |
| | | | Clear, below 20% |
| | | | Cloudy 20 - 70% |
| | | | Overcast more than 70% |
| | | | Calm, under 5 mph |
| | | | Moderate 5 - 15 mph |
| | | | Strong over 15 mph |
| Example: 00000 = No problem, good visibility, normal temp, clear, clam wind | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | |
| Updated Station description | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Station Location Sketch and Visibility Diagram | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Photographs of station | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Pencil Rubbing of mark | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Data File names (standard NGS format = aaaaddds.xxx Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | |
| Log Checked by | Printed Name: | | Initials: DRC |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | |

| TIME | BUBBLE CHECK | BASE SURVEY | PDOP | SATS | TEMP | WEATHER | BAT |
|-------|--------------|-------------|------|------|------|------------|-----|
| 6:30 | ✓ | ✓ | 1.6 | 9 | 36°F | COOL WINDY | |
| 7:15 | ✓ | ✓ | 2.1 | 8 | 35°F | " | 90% |
| 8:00 | ✓ | ✓ | 2.1 | 9 | 36°F | " | 80% |
| 8:45 | ✓ | ✓ | 2.4 | 6 | 36°F | " | 80% |
| 9:30 | ✓ | ✓ | 1.9 | 6 | 36°F | " | 70% |
| 10:15 | ✓ | ✓ | 1.8 | 9 | 38°F | " | 70% |
| 11:00 | ✓ | ✓ | 2.4 | 8 | 39°F | " | 70% |

WILL ALL ON @ 6:40
 Adjust END TIME to 11:10

5208 K - SESSION 15

| GPS Observation Log Sheet (continued) | | | Station Designation: 5208 K | | | | | | |
|---|--------------------|--------------------|---|---------|--|---------|----------------------|------------|----|
| Tripod | | | Psychrometer (if used) | | | | | | |
| Brand | SECO | | Brand | | | | | | |
| Model | 2m Fixed HT | | Model | | | | | | |
| Part Number | 5115-00-FLY | | Part Number | | | | | | |
| Serial Number | 11RJA (2) | | Serial Number | | | | | | |
| Last Adjustment Date | 5/1/13 | | Last calibration or check date: | | | | | | |
| <input checked="" type="checkbox"/> Fixed leg tripod <input type="checkbox"/> Collapsible - leg tripod <input type="checkbox"/> Fixed Mount | | | Barometer (if used) | | | | | | |
| | | | Brand | | | | | | |
| | | | Model | | | | | | |
| | | | Serial Number | | | | | | |
| Antenna Height | | | Before Session Begins | | After Session Ends | | | | |
| | | | Meters | Feet | Meters | Feet | | | |
| A = Datum point to top of tripod (Tripod Height) | | | 2.00 | | | | | | |
| B = Additional offset to ARP if any (Tribach/spacer) | | | 0.00 | | | | | | |
| H = Antenna Height = A + B = Datum point to ARP | | | 2.00 | | | | | | |
| Meters = feet × 0.3048 | | | Height entered into receiver = 2.00 meters | | | | | | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | | | | | | | |
| Weather Data | | | | | | | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp | | Wet Bulb Temp | | Rel % Humidity | Atm Press. | |
| | | | Fahrenheit | Celsius | Fahrenheit | Celsius | | In Hg | mB |
| Before | 00021 | 11:22 | 35° F | | | | | | |
| Middle | 0107 | 13:45 | 36° F | | | | | | |
| After | 0102 | 16:10 | 39° F | | | | | | |
| Weather Codes | | | | | | | | | |
| Code | Problem | Visibility | Temperature | | Cloud Cover | | Wind | | |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F | | Clear, below 20% | | Calm, under 5 mph | | |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F | | Cloudy 20 - 70% | | Moderate 5 - 15 mph | | |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F | | Overcast more than 70% | | Strong over 15 mph | | |
| Example: 00000 = No problem, good visibility, normal temp, clear, clam wind | | | | | | | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | | | | | | | |
| Updated Station description | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Station Location Sketch and Visibility Diagram | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Photographs of station | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Pencil Rubbing of mark | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Data File names (standard NGS format = aaaadddd.xxx Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | | | | | | | |
| Log Checked by | | Printed Name: | | | | | Initials: DRC | | |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | | | | | | | |



**Federal Aviation
Administration**

Airport Surveying-GIS Program

GPS Observation Log Sheet

| | | | | | | |
|--|---------------|-----------------------------|---------------|-------------------------------------|-------------|-------------|
| <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> PAC <input type="checkbox"/> SAC <input checked="" type="checkbox"/> BM | | | | Station Designation | Station PID | Date (UTC) |
| | | | | | PQ1711 | 5/2/2013 |
| General Location | | | | Station 4 Character ID | | Day of Year |
| NEW ULM, MN | | | | BM02 | | 122 |
| Geographic Coordinates (NAD83) | | | | Project Number | | Airport ID |
| Latitude: N ° ' " | | | | GPS - | | ULM |
| Longitude: W ° ' " | | | | | | |
| Observation Session Times (UTC) | | | | NAD83 Ellipsoid Height Meters | | |
| Scheduled Start | 11 | : | 30 | Stop | 16 | : 00 |
| | | | | NAVD88 Orthometric Height Meters | | |
| Actual Start | 11 | : | 40 | Stop | 16 | : 11 |
| | | | | GEOID ____ GEOID Height Meters | | |
| Epoch Interval = | | Seconds | | | | |
| Elevation Mask = | | Degrees | | | | |
| Project Name | | Station Serial Number (SSN) | | Session ID | | |
| ULMPACS | | 1005 5 | | B A | | |
| Agency/Company | Operator Name | Telephone Number | Email address | | | |
| [REDACTED] | | | | | | |

| Answer Yes or No to each question, if No explain | Yes | No | Explanation |
|--|-------------------------------------|-------------------------------------|-------------|
| Antenna plumb before session? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Antenna plumb after session? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Antenna oriented to true north? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Weather observed at antenna height? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Antenna ground plane used | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Antenna radome used? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Eccentric observation (> 0.5 mm)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Any obstructions above 10°? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | TREES NW |
| Radio interference source nearby? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

| Receiver | | Antenna | |
|--|--------------------------------------|-----------------------|--|
| Brand | TRIMBLE | Brand | |
| Model | R6 | Model | |
| Part Number | 60275-10 | Part Number | |
| Serial Number | 4738139036 | Serial Number | |
| Firmware Version | 4.43 | Cable Length (meters) | |
| <input checked="" type="checkbox"/> Camcorder battery <input type="checkbox"/> 12V DC <input type="checkbox"/> 110V AC | Vehicle is parked _____ meters _____ | | |
| <input type="checkbox"/> Other (specify): | (direction) from antenna | | |

Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately 5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20.

| GPS Observation Log Sheet (continued) | | | Station Designation: BM 6M02 | | | | | | |
|---|-------------------|--------------------|--|---------|--|---------------------|----------------|------------------|----|
| Tripod | | | Psychrometer (if used) | | | | | | |
| Brand | SECO | | Brand | | | | | | |
| Model | | | Model | | | | | | |
| Part Number | S115-00-FLY | | Part Number | | | | | | |
| Serial Number | Lot# 10RF6 Jan 10 | | Serial Number | | | | | | |
| Last Adjustment Date | 2-1-13 | | Last calibration or check date: | | | | | | |
| <input checked="" type="checkbox"/> Fixed leg tripod | | | Barometer (if used) | | | | | | |
| <input type="checkbox"/> Collapsible - leg tripod | | | Brand | | | | | | |
| <input type="checkbox"/> Fixed Mount | | | Model | | | | | | |
| | | | Serial Number | | | | | | |
| Antenna Height | | | Before Session Begins | | After Session Ends | | | | |
| | | | Meters | Feet | Meters | Feet | | | |
| A = Datum point to top of tripod (Tripod Height) | | | 2.000 | | 2.000 | | | | |
| B = Additional offset to ARP if any (Tribach/spacer) | | | - | | - | | | | |
| H = Antenna Height = A + B = Datum point to ARP | | | 2.000 | | 2.000 | | | | |
| Meters = feet × 0.3048 | | | Height entered into receiver = <u>2.000</u> meters | | | | | | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | | | | | | | |
| Weather Data | | | | | | | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp | | Wet Bulb Temp | | Rel % Humidity | Atm Press. In Hg | mB |
| | | | Fahrenheit | Celsius | Fahrenheit | Celsius | | | |
| Before | 00021 | 1140 | 36 | | | | | | |
| Middle | 01021 | 1425 | 37 | | | | | | |
| After | 01021 | 1610 | 39 | | | | | | |
| Weather Codes | | | | | | | | | |
| Code | Problem | Visibility | Temperature | | Cloud Cover | Wind | | | |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F | | Clear, below 20% | Calm, under 5 mph | | | |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F | | Cloudy 20 - 70% | Moderate 5 - 15 mph | | | |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F | | Overcast more than 70% | Strong over 15 mph | | | |
| Example: 00000 = No problem, good visibility, normal temp, clear, clam wind | | | | | | | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | | | | | | | |
| Updated Station description | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Station Location Sketch and Visibility Diagram | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Photographs of station | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Pencil Rubbing of mark | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Data File names (standard NGS format = aaaaddds.xxx | | | | | | | | | |
| Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | | | | | | | |
| Log Checked by | Printed Name: | | | | | | Initials: | DRC | |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | | | | | | | |

122-13
(10002)

ULMA

OMB Approved 2120-0557
Expires 3/31/2010

| | | | |
|---|---|--|------------------------|
|  Federal Aviation Administration | | Airport Surveying-GIS Program | |
| | | GPS Observation Log Sheet | |
| Station Designation <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> PAC <input type="checkbox"/> SAC <input type="checkbox"/> BM | | Station PID DN6934 | Date (UTC) 5/2/2013 |
| General Location New ULM MN | | Station 4 Character ID ULMA | Day of Year 122 |
| Geographic Coordinates (NAD83) Latitude: N ° ' " Longitude: W ° ' " | | Project Number GPS - | Airport ID ULM |
| Observation Session Times (UTC) | | NAD83 Ellipsoid Height Meters | |
| Scheduled Start 18 : 00 Stop 20 : 30 | NAVD88 Orthometric Height Meters | | |
| Actual Start 18 : 01 Stop 20 : 45 | GEOID _____ GEOID Height Meters | | |
| Epoch Interval = 15 Seconds Elevation Mask = 15 Degrees | | | |
| Project Name ULMPACS | Station Serial Number (SSN) 1001 | | Session ID C |
| Agency/Company | Operator Name | Telephone Number | Email address |
| Answer Yes or No to each question, if No explain | | | |
| Antenna plumb before session? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Explanation |
| Antenna plumb after session? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Antenna oriented to true north? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Weather observed at antenna height? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Antenna ground plane used | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Antenna radome used? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Eccentric observation (> 0.5 mm)? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Any obstructions above 10°? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Radio interference source nearby? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NDB |
| Receiver | | Antenna | |
| Brand | TRIMBLE | Brand | |
| Model | R8-3 | Model | |
| Part Number | 60158-00 | Part Number | |
| Serial Number | 5043452482 | Serial Number | |
| Firmware Version | 4.43 | Cable Length (meters) | |
| <input type="checkbox"/> Camcorder battery <input checked="" type="checkbox"/> 12V DC <input type="checkbox"/> 110V AC | | Vehicle is parked _____ meters _____ (direction) from antenna | |
| <input type="checkbox"/> Other (specify): | | | |
| Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately 5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20. | | | |

| GPS Observation Log Sheet (continued) | | Station Designation: PAC ULM4 | |
|---|----------------|--|--|
| Tripod | | Psychrometer (if used) | |
| Brand | SECO | Brand | |
| Model | | Model | |
| Part Number | S115-00-FLY | Part Number | |
| Serial Number | 11RJA-1 Sep 11 | Serial Number | |
| Last Adjustment Date | 5-1-2013 | Last calibration or check date: | |
| <input checked="" type="checkbox"/> Fixed leg tripod | | Barometer (if used) | |
| <input type="checkbox"/> Collapsible - leg tripod | | Brand | |
| <input type="checkbox"/> Fixed Mount | | Model | |
| | | Serial Number | |
| Antenna Height | | Before Session Begins | After Session Ends |
| | | Meters | Feet |
| A = Datum point to top of tripod (Tripod Height) | | 2.000 | 2.000 |
| B = Additional offset to ARP if any (Tribach/spacer) | | - | - |
| H = Antenna Height = A + B = Datum point to ARP | | 2.000 | 2.000 |
| Meters = feet × 0.3048 | | Height entered into receiver = <u>2.000</u> meters | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | |
| Weather Data | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp Fahrenheit |
| | | | Celsius |
| | | | Wet Bulb Temp Fahrenheit |
| | | | Celsius |
| | | | Rel % Humidity |
| | | | Atm Press. In Hg |
| | | | mB |
| Before | 0001Z | 1801 | 41 |
| Middle | 0001Z | 1915 | 48 |
| After | 0001Z | 2045 | 48 |
| Weather Codes | | | |
| Code | Problem | Visibility | Temperature |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F |
| | | | Cloud Cover |
| | | | Wind |
| | | | Clear, below 20% |
| | | | Cloudy 20 - 70% |
| | | | Overcast more than 70% |
| | | | Calm, under 5 mph |
| | | | Moderate 5 - 15 mph |
| | | | Strong over 15 mph |
| Example: 00000 = No problem, good visibility, normal temp, clear, calm wind | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | |
| Updated Station description | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Station Location Sketch and Visibility Diagram | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Photographs of station | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Pencil Rubbing of mark | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Data File names (standard NGS format = aaaadddd.xxx | | | |
| Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | |
| Log Checked by | Printed Name: | Initials: DRC | |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | |

122-13
(0012)
ULM B

OMB Approved 2120-0557
Expires 3/31/2010

| | | | |
|---|---------------------------------------|--------------------------------------|------------------------|
|  Federal Aviation Administration | | Airport Surveying-GIS Program | |
| | | GPS Observation Log Sheet | |
| Station Designation <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> PAC <input checked="" type="checkbox"/> SAC <input type="checkbox"/> BM | | Station PID DN6935 | Date (UTC) 5/2/2013 |
| General Location | | Station 4 Character ID ULMB | Day of Year 122 |
| Geographic Coordinates (NAD83) Latitude: N ° ' " Longitude: W ° ' " | | Project Number GPS - | Airport ID ULM |
| Observation Session Times (UTC) | | NAD83 Ellipsoid Height Meters | |
| Scheduled Start | 18 : 00 Stop 20 : 30 | NAVD88 Orthometric Height Meters | |
| Actual Start | 18 : 13 Stop 20 : 55 | GEOID ____ GEOID Height Meters | |
| Epoch Interval = | Seconds | | |
| Elevation Mask = | Degrees | | |
| Project Name ULMPACS | Station Serial Number (SSN) 1002 2 | Session ID C | |
| Agency/Company | Operator Name | Telephone Number | Email address |
| Answer Yes or No to each question, if No explain Yes No Explanation | | | |
| Antenna plumb before session? <input checked="" type="checkbox"/> <input type="checkbox"/> | | | |
| Antenna plumb after session? <input checked="" type="checkbox"/> <input type="checkbox"/> | | | |
| Antenna oriented to true north? <input checked="" type="checkbox"/> <input type="checkbox"/> | | | |
| Weather observed at antenna height? <input type="checkbox"/> <input checked="" type="checkbox"/> | | | |
| Antenna ground plane used <input type="checkbox"/> <input checked="" type="checkbox"/> | | | |
| Antenna radome used? <input type="checkbox"/> <input checked="" type="checkbox"/> | | | |
| Eccentric observation (> 0.5 mm)? <input type="checkbox"/> <input checked="" type="checkbox"/> | | | |
| Any obstructions above 10°? <input type="checkbox"/> <input checked="" type="checkbox"/> | | | |
| Radio interference source nearby? <input type="checkbox"/> <input checked="" type="checkbox"/> | | | |
| Receiver | | Antenna | |
| Brand | TRIMBLE | Brand | |
| Model | R8-3 | Model | |
| Part Number | 60158-00 | Part Number | |
| Serial Number | 5043452506 | Serial Number | |
| Firmware Version | 4.43 | Cable Length (meters) | |
| <input type="checkbox"/> Camcorder battery <input checked="" type="checkbox"/> 12V DC <input type="checkbox"/> 110V AC | | Vehicle is parked _____ meters _____ | |
| <input type="checkbox"/> Other (specify): | | (direction) from antenna | |
| Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately 5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20. | | | |

| GPS Observation Log Sheet (continued) | | Station Designation: SAC ULMB | | | | | | | |
|---|-------------------|--|--------------------------|--|--------------------------|---------------------|----------------|------------------|----|
| Tripod | | Psychrometer (if used) | | | | | | | |
| Brand | SECO | Brand | | | | | | | |
| Model | | Model | | | | | | | |
| Part Number | 5115-00-FLY | Part Number | | | | | | | |
| Serial Number | Lot# 10R2L Feb 10 | Serial Number | | | | | | | |
| Last Adjustment Date | 5-1-2013 | Last calibration or check date: | | | | | | | |
| <input checked="" type="checkbox"/> Fixed leg tripod <input type="checkbox"/> Collapsible - leg tripod <input type="checkbox"/> Fixed Mount | | Barometer (if used) | | | | | | | |
| | | Brand | | | | | | | |
| | | Model | | | | | | | |
| | | Serial Number | | | | | | | |
| Antenna Height | | Before Session Begins | After Session Ends | | | | | | |
| | | Meters | Feet | Meters | Feet | | | | |
| A = Datum point to top of tripod (Tripod Height) | | 2.000 | | 2.000 | | | | | |
| B = Additional offset to ARP if any (Tribach/spacer) | | - | | - | | | | | |
| H = Antenna Height = A + B = Datum point to ARP | | 2.000 | | 2.000 | | | | | |
| Meters = feet × 0.3048 | | Height entered into receiver = <u>2.000</u> meters | | | | | | | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | | | | | | | |
| Weather Data | | | | | | | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp Fahrenheit | Celsius | Wet Bulb Temp Fahrenheit | Celsius | Rel % Humidity | Atm Press. In Hg | mB |
| Before | 00012 | 1813 | 47 | | | | | | |
| Middle | 00012 | 1925 | 48 | | | | | | |
| After | 00012 | 2055 | 48 | | | | | | |
| Weather Codes | | | | | | | | | |
| Code | Problem | Visibility | Temperature | | Cloud Cover | Wind | | | |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F | | Clear, below 20% | Calm, under 5 mph | | | |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F | | Cloudy 20 - 70% | Moderate 5 - 15 mph | | | |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F | | Overcast more than 70% | Strong over 15 mph | | | |
| Example: 00000 = No problem, good visibility, normal temp, clear, clam wind | | | | | | | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | | | | | | | |
| Updated Station description | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | | |
| Station Location Sketch and Visibility Diagram | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | | |
| Photographs of station | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | | |
| Pencil Rubbing of mark | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | | |
| Data File names (standard NGS format = aaaadddd.xxx Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | | | | | | | |
| Log Checked by | Printed Name: | | | | Initials: DRG | | | | |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | | | | | | | |

122-13
(0013)

ULMC SESSION C

OMB Approved 2120-0557
Expires 3/31/2010

| | | | | |
|---|---|--|----------------------|----------------------|
|  Federal Aviation Administration | | Airport Surveying-GIS Program | | |
| | | GPS Observation Log Sheet | | |
| Station Designation <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> PAC <input checked="" type="checkbox"/> SAC <input type="checkbox"/> BM | | | Station PID _____ | Date (UTC) 5/2/13 |
| General Location NEW ULM, MN | | Station 4 Character ID ULMC | Day of Year 122 | |
| Geographic Coordinates (NAD83) Latitude: N ° ' '' Longitude: W ° ' '' | | Project Number GPS - | Airport ID ULM | |
| Observation Session Times (UTC) | | NAD83 Ellipsoid Height _____ Meters | | |
| Scheduled Start 18 : 00 Stop 20 : 30 | NAVD88 Orthometric Height _____ Meters | | Meters | |
| Actual Start 18 : 07 Stop 20 : 45 | GEOID _____ GEOID Height _____ Meters | | | |
| Epoch Interval = 15 Seconds Elevation Mask = 15 Degrees | | | | |
| Project Name ULM-123655 | Station Serial Number (SSN) 1003 | Session ID C | | |
| Agency/Company | Operator Name | Telephone Number | Email address | |
| Answer Yes or No to each question, if No explain | | | | |
| Antenna plumb before session? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Explanation | |
| Antenna plumb after session? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Antenna oriented to true north? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Weather observed at antenna height? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Antenna ground plane used | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Antenna radome used? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Eccentric observation (> 0.5 mm)? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Any obstructions above 10°? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Radio interference source nearby? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Receiver | | Antenna | | |
| Brand | TRIMBLE | Brand | | |
| Model | R8-MODEL 3 | Model | | |
| Part Number | 67250-66 | Part Number | | |
| Serial Number | 52148475 | Serial Number | | |
| Firmware Version | 4.73 | Cable Length (meters) | | |
| <input type="checkbox"/> Camcorder battery <input checked="" type="checkbox"/> 12V DC <input type="checkbox"/> 110V AC <input type="checkbox"/> Other (specify): | | Vehicle is parked _____ meters _____ (direction) from antenna | | |
| Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately 5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20. | | | | |

| Time | Bubble | Survey | PDOP | SATS | Temp | Bat |
|------|--------|--------|------|------|------|-----|
| 1:15 | ✓ | ✓ | 3.5 | 5 | 46°F | 70% |
| 3:45 | ✓ | ✓ | 2.3 | 8 | 56° | 70% |

1:13 Start Session
3:45 END TIME

ULMC SESSION C

| GPS Observation Log Sheet (continued) | | Station Designation: <u>ULMC</u> | | | | | | | |
|---|--------------------|---|-------------------|--------------------|-----------------------------------|----------------------|--|---------------------|--|
| Tripod | | Psychrometer (if used) | | | | | | | |
| Brand | <u>SEC</u> | Brand | | | | | | | |
| Model | <u>2m Fixed HT</u> | Model | | | | | | | |
| Part Number | <u>5115-00-FLY</u> | Part Number | | | | | | | |
| Serial Number | <u>11RJA (2)</u> | Serial Number | | | | | | | |
| Last Adjustment Date | <u>5/1/13</u> | Last calibration or check date: | | | | | | | |
| <input checked="" type="checkbox"/> Fixed leg tripod <input type="checkbox"/> Collapsible - leg tripod <input type="checkbox"/> Fixed Mount | | Barometer (if used) | | | | | | | |
| | | Brand | | | | | | | |
| | | Model | | | | | | | |
| | | Serial Number | | | | | | | |
| Antenna Height | | Before Session Begins | | After Session Ends | | | | | |
| | | Meters | Feet | Meters | Feet | | | | |
| A = Datum point to top of tripod (Tripod Height) | | <u>2.00</u> | | | | | | | |
| B = Additional offset to ARP if any (Tribach/spacer) | | <u>0.00</u> | | | | | | | |
| H = Antenna Height = A + B = Datum point to ARP | | <u>2.00</u> | | | | | | | |
| Meters = feet × 0.3048 | | Height entered into receiver = <u>2.00</u> meters | | | | | | | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | | | | | | | |
| Weather Data | | | | | | | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp | | Wet Bulb Temp | | Rel % Humidity | Atm Press. In Hg mB | |
| | | | Fahrenheit | Celsius | Fahrenheit | Celsius | | | |
| Before | <u>000</u> | <u>2:18:07</u> | <u>46°</u> | | | | | | |
| Middle | <u>000</u> | <u>12:19:45</u> | <u>52°</u> | | | | | | |
| After | <u>000</u> | <u>12:20:45</u> | <u>56°</u> | | | | | | |
| Weather Codes | | | | | | | | | |
| Code | Problem | Visibility | Temperature | | Cloud Cover | Wind | | | |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F | | Clear, below 20% | Calm, under 5 mph | | | |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F | | Cloudy 20 - 70% | Moderate 5 - 15 mph | | | |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F | | Overcast more than 70% | Strong over 15 mph | | | |
| Example: 00000 = No problem, good visibility, normal temp, clear, clam wind | | | | | | | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | | | | | | | |
| Updated Station description | | | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | |
| Station Location Sketch and Visibility Diagram | | | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | |
| Photographs of station | | | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | |
| Pencil Rubbing of mark | | | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | |
| Data File names (standard NGS format = aaaaddds.xxx Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | | | | | | | |
| Log Checked by | Printed Name: | | | | | Initials: <u>DRC</u> | | | |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | | | | | | | |

122-C
 (0002)
 ULM A

OMB Approved 2120-0557
 Expires 3/31/2010

| | | | |
|---|--|---|--------------------------------------|
|  Federal Aviation Administration | | Airport Surveying-GIS Program | |
| | | GPS Observation Log Sheet | |
| Station Designation <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> PAC <input type="checkbox"/> SAC <input type="checkbox"/> BM | | Station PID DN 6934 | Date (UTC) 5/2/2013 |
| General Location | | Station 4 Character ID ULMA | Day of Year 122 |
| Geographic Coordinates (NAD83) Latitude: N ° ' " Longitude: W ° ' " | | Project Number GPS - | Airport ID ULM |
| Observation Session Times (UTC) | | NAD83 Ellipsoid Height Meters | |
| Scheduled Start | 21 : 00 Stop 23 : 30 | NAVD88 Orthometric Height Meters | |
| Actual Start | 20 : 53 Stop 23 : 35 | GEOID _____ GEOID Height Meters | |
| Epoch Interval | = 15 Seconds | | |
| Elevation Mask | = 15 Degrees | | |
| Project Name ULM PACS | Station Serial Number (SSN) 1001 | Session ID D | |
| Agency/Company | Operator Name | Telephone Number | Email address |
| | | | |
| Answer Yes or No to each question, if No explain | | Yes | No |
| Antenna plumb before session? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Antenna plumb after session? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Antenna oriented to true north? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Weather observed at antenna height? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Antenna ground plane used | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Antenna radome used? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Eccentric observation (> 0.5 mm)? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Any obstructions above 10°? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Radio interference source nearby? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> NDB |
| Receiver | | Antenna | |
| Brand | TRIMBLE | Brand | |
| Model | R8-3 | Model | |
| Part Number | 60158-00 | Part Number | |
| Serial Number | 5043452482 | Serial Number | |
| Firmware Version | 4.43 | Cable Length (meters) | |
| <input type="checkbox"/> Camcorder battery | <input checked="" type="checkbox"/> 12V DC | <input type="checkbox"/> 110V AC | Vehicle is parked _____ meters _____ |
| <input type="checkbox"/> Other (specify): | | (direction) from antenna | |
| Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately 5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20. | | | |

| | | | |
|--|----------------|--|--|
| GPS Observation Log Sheet (continued) | | Station Designation: PAC ULMA | |
| Tripod | | Psychrometer (if used) | |
| Brand | SECO | Brand | |
| Model | | Model | |
| Part Number | S11S-00-FLY | Part Number | |
| Serial Number | 11RJA-1 Sep 11 | Serial Number | |
| Last Adjustment Date | 5-1-13 | Last calibration or check date: | |
| <input checked="" type="checkbox"/> Fixed leg tripod | | Barometer (if used) | |
| <input type="checkbox"/> Collapsible - leg tripod | | Brand | |
| <input type="checkbox"/> Fixed Mount | | Model | |
| | | Serial Number | |
| Antenna Height | | Before Session Begins | After Session Ends |
| | | Meters | Feet |
| A = Datum point to top of tripod (Tripod Height) | | 2.000 | |
| B = Additional offset to ARP if any (Tribach/spacer) | | - | |
| H = Antenna Height = A + B = Datum point to ARP | | 2.000 | |
| Meters = feet × 0.3048 | | Height entered into receiver = <u>2.000</u> meters | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | |
| Weather Data | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp Fahrenheit Celsius |
| | | | Wet Bulb Temp Fahrenheit Celsius |
| | | | Rel % Humidity |
| | | | Atm Press. In Hg mB |
| Before | 0001Z | 2053 | 48 |
| Middle | 0001Z | 2225 | 48 |
| After | 0001Z | 2335 | 48 |
| Weather Codes | | | |
| Code | Problem | Visibility | Temperature |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F |
| | | | Cloud Cover |
| | | | Wind |
| | | | Clear, below 20% |
| | | | Cloudy 20 - 70% |
| | | | Overcast more than 70% |
| | | | Calm, under 5 mph |
| | | | Moderate 5 - 15 mph |
| | | | Strong over 15 mph |
| Example: 00000 = No problem, good visibility, normal temp, clear, clam wind | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | |
| Updated Station description | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Station Location Sketch and Visibility Diagram | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Photographs of station | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Pencil Rubbing of mark | | <input type="checkbox"/> Attached | <input type="checkbox"/> Submitted later |
| Data File names (standard NGS format = aaaaddds.xxx Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | |
| Log Checked by | Printed Name: | | Initials: DRC |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | |

122-C
(0012)

| | | | |
|---|---|--|-------------------------------|
|  Federal Aviation Administration | | Airport Surveying-GIS Program | |
| | | GPS Observation Log Sheet | |
| Station Designation <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> PAC <input checked="" type="checkbox"/> SAC <input type="checkbox"/> BM | | Station PID DN6935 | Date (UTC) 5/2/2013 |
| General Location | | Station 4 Character ID ULMB | Day of Year 122 |
| Geographic Coordinates (NAD83) Latitude: N ° ' " Longitude: W ° ' " | | Project Number GPS - | Airport ID ULM |
| Observation Session Times (UTC) | | NAD83 Ellipsoid Height Meters | |
| Scheduled Start 21 : 00 Stop 23 : 30 | NAVD88 Orthometric Height Meters | | |
| Actual Start 21 : 03 Stop 23 : 40 | GEOID _____ GEOID Height Meters | | |
| Epoch Interval = 15 Seconds Elevation Mask = 15 Degrees | | | |
| Project Name ULMPACS | Station Serial Number (SSN) 1002 2 | Session ID D | |
| Agency/Company | Operator Name | Telephone Number | Email address |
| Answer Yes or No to each question, if No explain | | | |
| | Yes | No | Explanation |
| Antenna plumb before session? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Antenna plumb after session? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Antenna oriented to true north? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Weather observed at antenna height? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Antenna ground plane used | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Antenna radome used? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Eccentric observation (> 0.5 mm)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Any obstructions above 10°? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Radio interference source nearby? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Receiver | | Antenna | |
| Brand | TRIMBLE | Brand | |
| Model | R8-3 | Model | |
| Part Number | 60158-00 | Part Number | |
| Serial Number | 5043452506 | Serial Number | |
| Firmware Version | 4.43 | Cable Length (meters) | |
| <input type="checkbox"/> Camcorder battery <input checked="" type="checkbox"/> 12V DC <input type="checkbox"/> 110V AC | | Vehicle is parked _____ meters _____ (direction) from antenna | |
| <input type="checkbox"/> Other (specify): | | | |
| Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately 5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20. | | | |

| GPS Observation Log Sheet (continued) | | | Station Designation: SAC ULMB | | | | | | |
|---|------------------|--------------------|--|---------|--|---------------------|----------------|------------------|----|
| Tripod | | | Psychrometer (if used) | | | | | | |
| Brand | SECO | | Brand | | | | | | |
| Model | | | Model | | | | | | |
| Part Number | S11S-00-FLY | | Part Number | | | | | | |
| Serial Number | Lot 10RZL Feb 10 | | Serial Number | | | | | | |
| Last Adjustment Date | 5-1-2013 | | Last calibration or check date: | | | | | | |
| <input checked="" type="checkbox"/> Fixed leg tripod <input type="checkbox"/> Collapsible - leg tripod <input type="checkbox"/> Fixed Mount | | | Barometer (if used) | | | | | | |
| | | | Brand | | | | | | |
| | | | Model | | | | | | |
| | | | Serial Number | | | | | | |
| Antenna Height | | | Before Session Begins | | After Session Ends | | | | |
| | | | Meters | Feet | Meters | Feet | | | |
| A = Datum point to top of tripod (Tripod Height) | | | 2.000 | | 2.000 | | | | |
| B = Additional offset to ARP if any (Tribach/spacer) | | | - | | - | | | | |
| H = Antenna Height = A + B = Datum point to ARP | | | 2.000 | | 2.000 | | | | |
| Meters = feet × 0.3048 | | | Height entered into receiver = <u>2.000</u> meters | | | | | | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | | | | | | | |
| Weather Data | | | | | | | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp | | Wet Bulb Temp | | Rel % Humidity | Atm Press. In Hg | mB |
| | | | Fahrenheit | Celsius | Fahrenheit | Celsius | | | |
| Before | 00012 | 2103 | 48 | | | | | | |
| Middle | 00012 | 2205 | 48 | | | | | | |
| After | 00012 | 2340 | 48 | | | | | | |
| Weather Codes | | | | | | | | | |
| Code | Problem | Visibility | Temperature | | Cloud Cover | Wind | | | |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F | | Clear, below 20% | Calm, under 5 mph | | | |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F | | Cloudy 20 - 70% | Moderate 5 - 15 mph | | | |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F | | Overcast more than 70% | Strong over 15 mph | | | |
| Example: 00000 = No problem, good visibility, normal temp, clear, clam wind | | | | | | | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | | | | | | | |
| Updated Station description | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Station Location Sketch and Visibility Diagram | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Photographs of station | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Pencil Rubbing of mark | | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | |
| Data File names (standard NGS format = aaaaddds.xxx | | | | | | | | | |
| Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | | | | | | | |
| Log Checked by | Printed Name: | | | | | | Initials: | DRC | |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | | | | | | | |
| RECEIVER STOPPED BY POWER DOWN | | | | | | | | | |

122-C
10013

ULMC SESSION D

OMB Approved 2120-0557
Expires 3/31/2010



Federal Aviation
Administration

Airport Surveying-GIS Program

GPS Observation Log Sheet

| Station Designation | | | | Station PID | Date (UTC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|-------------------------------------|---|-------------------------------------|--------------------|--|-----|----|-------------|-------------------------------|-------------------------------------|--------------------------|--|------------------------------|-------------------------------------|--------------------------|--|---------------------------------|-------------------------------------|--------------------------|--|-------------------------------------|--------------------------|-------------------------------------|--|---------------------------|--------------------------|-------------------------------------|--|----------------------|--------------------------|-------------------------------------|--|-----------------------------------|--------------------------|-------------------------------------|--|-----------------------------|--------------------------|-------------------------------------|--|-----------------------------------|--------------------------|-------------------------------------|--|
| <input type="checkbox"/> FBN | <input type="checkbox"/> CBN | <input type="checkbox"/> PAC | <input checked="" type="checkbox"/> SAC | <input type="checkbox"/> BM | 5/2/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| General Location NEW ULM, MN | | | Station 4 Character ID ULMC | | Day of Year 122 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Geographic Coordinates (NAD83) Latitude: N ° ' " Longitude: W ° ' " | | | Project Number GPS - | | Airport ID ULM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Observation Session Times (UTC) | | | NAD83 Ellipsoid Height Meters | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scheduled Start | 20 : 30 | Stop | 23 : 00 | NAVD88 Orthometric Height Meters | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Actual Start | 20 : 49 | Stop | 23 : 33 | GEOID ____ GEOID Height Meters | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epoch Interval = 15 Seconds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elevation Mask = 15 Degrees | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name ULM-123655 | | Station Serial Number (SSN) 1003 | | Session ID D C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Agency/Company | Operator Name | Telephone Number | Email address | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Answer Yes or No to each question, if No explain</th> <th>Yes</th> <th>No</th> <th>Explanation</th> </tr> </thead> <tbody> <tr> <td>Antenna plumb before session?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td>Antenna plumb after session?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td>Antenna oriented to true north?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td>Weather observed at antenna height?</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>Antenna ground plane used</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>Antenna radome used?</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>Eccentric observation (> 0.5 mm)?</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>Any obstructions above 10°?</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>Radio interference source nearby?</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> </tbody> </table> | | | | | | Answer Yes or No to each question, if No explain | Yes | No | Explanation | Antenna plumb before session? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | Antenna plumb after session? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | Antenna oriented to true north? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | Weather observed at antenna height? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | Antenna ground plane used | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | Antenna radome used? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | Eccentric observation (> 0.5 mm)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | Any obstructions above 10°? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | Radio interference source nearby? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Answer Yes or No to each question, if No explain | Yes | No | Explanation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna plumb before session? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna plumb after session? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna oriented to true north? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weather observed at antenna height? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna ground plane used | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna radome used? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eccentric observation (> 0.5 mm)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Any obstructions above 10°? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Radio interference source nearby? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Receiver | | | Antenna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brand | TRIMBLE | | Brand | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | R8-MODEL 3 | | Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Part Number | 67250-66 | | Part Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial Number | 5211484425 | | Serial Number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Firmware Version | 4.43 | | Cable Length (meters) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Camcorder battery | | | Vehicle is parked _____ meters _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> 12V DC <input type="checkbox"/> 110V AC | | | (direction) from antenna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Bubble | Survey | PROP | Sets | But |
|------|--------|--------|------|------|-----|
| 4:55 | ✓ | ✓ | 2.3 | 9 | 70% |
| 6:15 | ✓ | ✓ | 1.9 | 8 | 60% |

ULM C SESSION D.

| GPS Observation Log Sheet (continued) | | Station Designation: | | | | | | | |
|---|---------------|---|--------------------------|--|--------------------------|---------------------|----------------|------------------|----|
| Tripod | | Psychrometer (if used) | | | | | | | |
| Brand | SECO | Brand | | | | | | | |
| Model | ZM Fixed HT | Model | | | | | | | |
| Part Number | 5115-00-FLY | Part Number | | | | | | | |
| Serial Number | 1RJA(2) | Serial Number | | | | | | | |
| Last Adjustment Date | 5/1/13 | Last calibration or check date: | | | | | | | |
| <input checked="" type="checkbox"/> Fixed leg tripod <input type="checkbox"/> Collapsible - leg tripod <input type="checkbox"/> Fixed Mount | | Barometer (if used) | | | | | | | |
| | | Brand | | | | | | | |
| | | Model | | | | | | | |
| | | Serial Number | | | | | | | |
| Antenna Height | | Before Session Begins | After Session Ends | | | | | | |
| | | Meters | Feet | Meters | Feet | | | | |
| A = Datum point to top of tripod (Tripod Height) | | 2.00 | | | | | | | |
| B = Additional offset to ARP if any (Tribach/spacer) | | 0.00 | | | | | | | |
| H = Antenna Height = A + B = Datum point to ARP | | 2.00 | | | | | | | |
| Meters = feet × 0.3048 | | Height entered into receiver = <u>2.00</u> meters | | | | | | | |
| Note or sketch any unusual circumstances. Be very clear as to where and how you measured. | | | | | | | | | |
| Weather Data | | | | | | | | | |
| | Weather Codes | Time (UTC) | Dry-Bulb Temp Fahrenheit | Celsius | Wet Bulb Temp Fahrenheit | Celsius | Rel % Humidity | Atm Press. In Hg | mB |
| Before | 00011 | 20:50 | 48°F | | | | | | |
| Middle | 00011 | 21:55 | 48°F | | | | | | |
| After | 00011 | 23:33 | 48°F | | | | | | |
| Weather Codes | | | | | | | | | |
| Code | Problem | Visibility | Temperature | | Cloud Cover | Wind | | | |
| 0 | Did not occur | Good over 15 miles | Normal 32 - 80° F | | Clear, below 20% | Calm, under 5 mph | | | |
| 1 | Did occur | Fair 7-15 miles | Hot over 80° F | | Cloudy 20 - 70% | Moderate 5 - 15 mph | | | |
| 2 | Not Used | Poor under 7 miles | Cold below 32° F | | Overcast more than 70% | Strong over 15 mph | | | |
| Example: 00000 = No problem, good visibility, normal temp, clear, clam wind | | | | | | | | | |
| 12121 = Problems, poor visibility, hot, overcast, moderate wind | | | | | | | | | |
| Updated Station description | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | | |
| Station Location Sketch and Visibility Diagram | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | | |
| Photographs of station | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | | |
| Pencil Rubbing of mark | | <input type="checkbox"/> Attached | | <input type="checkbox"/> Submitted later | | | | | |
| Data File names (standard NGS format = aaaaddds.xxx | | | | | | | | | |
| Where aaaa = 4 character ID, ddd= day of year, s=session ID, xxx=file dependant extension | | | | | | | | | |
| Log Checked by | Printed Name: | | | | Initials: <u>DRC</u> | | | | |
| Remarks, Comments on problems, sketches, pencil rubbings etc. | | | | | | | | | |