# OPUS Projects Manager Training Step 1 : Creating a Project

ngs.opus.projects@noaa.gov

# I've advanced to the second slide and I'm reading it.

- Can you read this slide and hear me as I read it?
- Can you access the web?
  - Is everyone comfortable?
- Does anyone have any questions before we begin?

# Outline

- Introduction
- Step 1 : Creating a Project
- Step 2 : Uploading Data
- Step 3 : Session Processing
- Step 4 : Network Adjustment

## A few words before beginning.

OPUS Projects is a Web-based utility implying that access to the Internet and use of a Web browser are required. JavaScript must be enabled in your browser and pop-up blocking may have to be turned off. If you have difficulty configuring your browser, contact your instructor or the OPUS Projects team.

## The OPUS Projects look and feel.

The overall layout and appearance of OPUS Projects will be very similar to that shown here regardless of the browser you use. For this reason, the browser window's frame is not shown in the figures.

## What's in this training?

This presentation shows how to create a project and set its preferences in preparation for use. The format is as a series of steps like a cookbook.

Like most cookbooks, the justification for and discussion of variations in those steps will be minimal.

The intent is to get you started quickly, then leave you free to explore OPUS Projects on your own.

	NORR		<b>OPUS</b>	Projects						
					National Geodetic S	Survey				
	NGS Home About NGS	Data & Imagery Too	ls Surveys	Science & Education		Search				
		OPUS Projects gives users web-based access to simple management and processing tools for projects involving multiple sites and multiple occupations. The advantages of OPUS Projects are: Data uploading through OPUS. Customizable data processing via the PAGES software suite. Visualization and management aids.								
_		Create a new project.           Create <b>RESTRICTED</b> to trained project managers. If you have completed OPUS Projects training, you are registered and may create a new project. All others, see the <b>Training Schedule</b> .								
	Tools (ODUS Menu	Configure, edit	Configure, edit, and process individual network sessions.							
1	Upload	Session P	roject Identifier:							
	About OPUS	S	ession Keyword:							
	OPUS Projects Published Solutions	Yi	our Email:							
	< back	Manage, edit, p	process, and pub	lish the project.						
		Manage P	roject Identifier:							
		M	anager Keyword							

# Start at the OPUS Projects gateway page: http://geodesy.noaa.gov/OPUS-Projects/.

DORA	OPUS Projects								
	National Geodetic Survey								
NGS Home About NG	Data & Imagery         Tools         Surveys         Science & Education         Search								
	OPUS Projects gives users web-based access to simple management and processing tools for projects involving multiple sites and multiple occupations. The advantages of OPUS Projects are: Data uploading through OPUS. Customizable data processing via the PAGES software suite. Visualization and management aids.								
	Create a new project.  Create RESTRICTED to trained project managers. If you have completed OPUS Projects training, you are registered and may create a new project. All others, see the Training Schedule.								
Tools/OPUS Menu Upload About OPUS OPUS Projects	Configure, edit, and process individual network sessions.          Session       Project Identifier:         Session Keyword:								
<ul> <li> back</li> </ul>	Manage, edit, process, and publish the project.          Manage       Project Identifier:         Manage       Manager Keyword:								

### Click the "Create" button to start Creating a Project.

non	OPUS: Online Positioning User Service											
						National Geod	letic Survey					
NGS Home	About NGS	Data & Imagery	Tools	Surveys	Science & Education		Search					
+ - мт	ND MM	Create	Project									
ID WY V UT CO	SD WI NE IA KS MO	*Email	address	Refers to	) Project Manager who mu	st be registered with OPUS-I	ects					
AZ NM	OK AR	TN * Proje	ct title				2					
POWERED BY	TX LA GA	GA * Proje	ct type	C HtMo	d OFAA 💿 Other							
Calicitatiata	©2010 - Tergan	opf Use * Appro	x. location	Latitude:	ар							
OPUS Mer	IU	* Antici	pated star	t								
About OPUS		* Appro	x. size	Stations	: 0 + - and Dura	tion: 0 🛛 🔸 - days						
OPUS Projec Published Sc	ts Iutions			Creat	te Cancel							
		* required	l fields		Website Owner: National	Geodetic Survey / Last modified by	NGS.OPUS Monday, 22-Nov-2010 15:53:52 EST					
	1	NOS Home • NGS Er	nployees •	Privacy Poli	cy • Disclaimer • USA.gov	• Ready.gov • Site Map • Conta	ct Webmaster					

You'll be taken to the "Create Project" page. Here you'll enter your email address, a title for and brief summary of your project. Let's work through these steps.

	OPUS: Online Positioning User Service
	National Geodetic Survey
NGS Home About NGS Data & Imagery	Tools Surveys Science & Education Search
+ - MT ND MN	Project
ID WY NE IA V UT CO KS MO V	address Refers to Project Manager who must be registered with OPUS-
AZ NM OK AR TN * Project	ct title
Rowersto ev Camper Cata 62010 - Terrason Use * Appro	x type C HtMod C FAA ⊙ Other x. location Latitude: Ndd:mm and Longitude: Wdd:mm Update Map
OPUS Menu * Anticij Upload	pated start
About OPUS * Appro	x. size Stations: 0 • • and Duration: 0 • • days
OPUS Projects Published Solutions	Create Cancel
* required	fields Website Owner: National Geodetic Survey / Last modified by NGS.OPUS Monday, 22-Nov-2010 15:53:52 EST
NOS Home • NGS En	nployees • Privacy Policy • Disclaimer • USA.gov • Ready.gov • Site Map • Contact Webmaster

### Your email addresses must be less than 54 characters in length.

non		A	5	OPUS	: Online Posi	tioning Us	er Service	<b>,</b>	
						Nati	onal Geodetic S	Survey	
NGS Home	About NGS	Data & Imagery	Tools	Surveys	Science & Education				Search
+ - мт	ND MN	Create I	Project						
ID WY V UT CO	SD WI NE IA KS MO	*Email a	*Email address Mister.Mxyzptlk@fifth.dimension Refers to Project Manager who must be registered with OPUS-Projects						
AZ NM	OK AR	TN * Projec	t title:					N	
POWERED BY	TX	GA * Projec	*Project The page at http://beta.ngs.noaa.gov says:						
OPUS Mer	©2010 - Tegan	F * Appro	×	PROBLE	EM: Check or enter your	EMAIL ADDRESS.	ate Map	•	
Linioad		* Anticij	0		1				
About OPUS		* Аррго	×		OK				
OPUS Projec Published Sc	ts Iutions			Crea	te Cancel				
		* required	fields		Website Owner: National	Geodetic Survey / Last	t modified by NGS.OF	PUS Monday, 22-N	lov-2010 15:53:52 EST
		NOS Home • NGS Em	nlovees .	Privacy Poli	ov • Disclaimer • USA gov	• Ready doy • Site	Man 🔹 Contact Web	master	

You must be registered to create a project. This will be verified after you enter your email address and move to the next field.

non		X		OPUS	: Online Posi	tioning Use	er Service	•		
						Natio	onal Geodetic S	urvey		
NGS Home	About NGS	Data & Imagery	Tools	Surveys	Science & Education				Search	
+ - мт	ND MN	Create	Project							
ID WY V UT CO	WY SD WI MI NE IA CO KS MO KY V	KY V *Email	* Email address Mister. Mxyzptlk@fifth.dimension Refers to Project Manager who must be registered with OPUS-Projects							
AZ NM	OK AR	*Projec	:t title							
POWERED BY	ERED BY TX LA GA * Project The p				ige at http://beta.ngs.noaa.gov says: 🔀					
OPUS Men	ata ©2010 - Tegarorf Use	enf Use * Appro	×	PROBLE	M: Check or enter your	EMAIL ADDRESS.	ate Map	•		
Linioad		* Antici	p							
About OPUS		* Appro	x		OK					
OPUS Projec Published So	ts Iutions			Crea	te Cancel					
		* required	fields		Website Owner: National	Geodetic Survey / Last	modified by NGS.OF	US Monday, 22-No	ov-2010 15:53:52 EST	
		NOS Home • NGS Er	nolovees •	Privacy Poli	ov • Disclaimer • USA.gov	• Readv.gov • Site N	vlap • Contact Webr	master		

OPUS Projects Manager Training is the best way to be registered to create projects. Information upcoming classes can be found at http://geodesy.noaa.gov/corbin/calendar.shtml.

nons		XP	<b>o</b>	PUS	: Online Posit	ioning User Serv	vice			
				National Geodetic Survey						
NGS Home	About NGS	Data & Imagery	Tools S	Surveys	Science & Education		Sear	rch		
+ - MT	ND MN	Create	Project							
ID WY V UT CO	SD WI NE IA KS MO	M * Email	address	your.na Refers to	me@your.address Project Manager who mus	st be registered with OPUS-Proje	cts			
AZ NM	OK AR	TN * Projec	:t title				N			
POWERED BY	TX LA	GA * Projec	:t type	O HtMoo	d CFAA ⊙Other		<b>V</b> 3			
Canonata	02010 - Tegan	of Use * Appro	x. location	Latitude:	Ndd:mm and Longitu	ide: Wdd:mm Update Map	2			
OPUS Men	u	* Antici	pated start							
Upload About OPUS		* Appro	x. size	Stations:	0 + - and Durat	ion: 0 🛛 🔸 - days				
OPUS Projec Published So	ts Iutions			Creat	te Cancel					
		* required	fields		Website Owner: National G	eodetic Survey / Last modified by N	GS.OPUS Monday, 22-Nov-2010 15:53:52	2 EST		
		NOS Home • NGS En	nployees • Pr	ivacy Polic	cy • Disclaimer • USA.gov	Ready.gov      Site Map     Contact	t Webmaster			

After entering a registered email address, the "Create" button will be enabled and you can complete the form.

	1-0	OPUS	: Online Posi	tioning U	ser Service	e		
				Na	tional Geodetic S	Survey		
NGS Home About NGS Data 8	k Imagery Tools	Surveys	Science & Education				Search	
+ - MT ND MAN	Create Project							
ID WY SD WI MI NE IA V UT CO KS MO KY V	* Email address your.name@your.address Refers to Project Manager who must be registered with OPUS-Projects							
AZ NM OK AR TN	* Project title	* Project title						
TX GA	* Project type	C HtMo	d C FAA 💿 Other			6		
Canegratata ©2010 - Terransorf Use	* Approx. location	Latitude:	Ndd:mm and Longit	ude: Wdd:mm	Update Map			
OPUS Menu	* Anticipated start							
About OPUS	* Approx. size	Stations	0 + and Dura	tion: 0 🔹 -	days			
OPUS Projects Published Solutions		Creat	te Cancel					
	* required fields		Website Owner: National (	Geodetic Survey / L.	ast modified by NGS.OF	°US Monday, 22-Nov	-2010 15:53:52 EST	

Next, enter your project title. The project title must be less than 65 characters in length but, otherwise, has few restrictions. However, remember that short and simple are often better.

non		X	- (	OPUS	: Online Posit	tioning User Serv	ice			
				National Geodetic Survey						
NGS Home	About NGS	Data & Imagery	Tools	Surveys	Science & Education		Search			
+ - MT	ND MN	Create	Project							
ID WY V UT CO	SD WI NE IA IL KS MO	мі) *Email IN ОН КУ <sup>V</sup>	address	your.na Refers to	your.name@your.address Refers to Project Manager who must be registered with OPUS-Projects					
AZ NM	OK AR	*Proje	* Project title		ject @ 2006-10-01					
POWERED BY		GA * Proje	ct type	C HtMo	d 🔿 FAA 💿 Other		6			
Californatiata	©2010 - Terme	of Use <sup>1</sup> * Appro	x. location	Latitude:	l.					
OPUS Men Upload	nu	* Antici	pated star							
About OPUS		* Appro	x. size	Stations	: 0 + - and Durat	tion: 0 + - days				
OPUS Projec Published So	ts Ilutions			Crea	te Cancel					
		* required	fields		Website Owner: National (	Geodetic Survey / Last modified by NG	35.0PUS Monday, 22-Nov-2010 15:53:52 EST			
	1	NOS Home • NGS Er	nployees 🔹	Privacy Poli	cy • Disclaimer • USA.gov	• Ready.gov • Site Map • Contact	Webmaster			

		X	- (	OPUS	: Online Posi	tioning U	ser Service		
						Na	ational Geodetic Su	rvey	
NGS Home Abo	ut NGS	Data & Imagery	Tools	Surveys	Science & Education			Search	
+ - MT ND	MN	Create	Project						
ID WY SD NE V UT CO KS	WI IA IL S MO	MI * Email	address	ess your.name@your.address Refers to Project Manager who must be registered with OPUS-Projects					
AZ NM	OK AR 1	rN * Projec	ct title	my pro	ject @ 2006-10-01			]	
POWERED BY	TX LA GA	GA * Proje	ct type	C HtMo	d O FAA 🔊 Other				
California c2014	- Tetasor	f Use * Appro	x. location	Latitude:	Ndd:mm	ude: Wdd:mm	Update Map		
OPUS Menu		* Antici	pated start						
About OPUS		* Appro	x. size	Stations	0 + · and Dura	tion: 0 🔹 🔸	days		
OPUS Projects Published Solution	าร			Creat	te Cancel				
		* required	l fields		Website Owner: National (	Geodetic Survey / L	.ast modified by NGS.OPUS	Monday, 22-Nov-2010 15:53:52 EST	

The project type designates the project as a HtMod (Height Modernization), FAA (Aeronautical Survey Program) or Other type of project.

		X	-	OPUS	: Online Posi	tioning Us	ser Service	
	/					Nat	tional Geodetic Sur	vey
NGS Home	About NGS	Data & Ima	igery Tools	Surveys	Science & Education			Search
+ - MT	ND MN SD WI MI NE IA CO KS MO KY NM OK AR TN MS AL	Cr	eate Project					
ID WY V UT CO		MI *	Email address	your.na Refers to	ame@your.address ) Project Manager who mu	st be registered wi	th OPUS-Projects	
AZ NM		TN .	Project title	my pro	ject @ 2006-10-01			
POWERED BY	TX	GA	Project type	C HtMo	d O FAA 💦 Other			
Canonata	82010 - Tegano	of Use 🛓	Approx. location	Latitude:	Ndd:mm	ude: Wdd:mm	Update Map	
OPUS Men	u	*	Anticipated star	t 📃				
About OPUS		*	Approx. size	Stations	: 0 • • and Dura	tion: 0 + -	days	
OPUS Projec Published So	ts Iutions			Creat	te Cancel			
		* re	quired fields		Website Owner: National	Geodetic Survey / La	ist modified by NGS.OPUS	Monday, 22-Nov-2010 15:53:52 EST
	1	NOS Home	NGS Employees	Privacy Poli	cy • Disclaimer • USA.gov	• Ready.gov • Site	e Map • Contact Webmast	ter

HtMod and FAA projects will receive additional scrutiny if published to insure they meet the specifications for those types of projects. Leave the type as Other for now.

nons		AP	5	OPUS	: Online Posi	tioning User Service				
						National Geodetic Su	National Geodetic Survey			
NGS Home	About NGS	Data & Imagery	Tools	Surveys	Science & Education		Search			
+ - MT	ND MN	Create	Project							
ID WY V UT CO	Y NE IA CO KS MO KY	MI *Ema IN OH KY V	il address	your.na Refers to	your.name@your.address Refers to Project Manager who must be registered with OPUS-Projects					
AZ NM	OK AR	*Proj	* Project title		oject @ 2006-10-01					
POWERED BY	TX LA	GA * Proj	ect type	C HtMo	O HtMod O FAA NOther					
Canalanata	©2010 - Tegar	opf Use * App	ox. locatio	n Latitude						
OPUS Men Upload	nu	* Anti	cipated sta	t						
About OPUS		* App	ox. size	Stations	: 0 + - and Dura	tion: 0 🛛 🔸 - days				
OPUS Projec Published So	ts Iutions			Crea	te Cancel					
		* requir	ed fields		Website Owner: National	Geodetic Survey / Last modified by NGS.OPU	IS Monday, 22-Nov-2010 15:53:52 EST			
	I	NOS Home • NGS	Employees •	Privacy Poli	icy • Disclaimer • USA.gov	• Ready.gov • Site Map • Contact Webma	aster			

	4 - C	OPUS: Online Positioning User Service
	M	National Geodetic Survey
NGS Home About NGS Dat	a & Imagery Tools	Surveys Science & Education Search
+ - MT ND MN	Create Project	
ID WY SD WI M NE IA V UT CO KS MO KY	*Email address он v	your.name@your.address Refers to Project Manager who must be registered with OPUS-Projects
AZ NM OK AR TN	* Project title	my project @ 2006-10-01
FOWERED BY TX LA	GA * Project type	C HtMod C FAA
OPUS Menu	* Approx. location	Latitude: Ndd:mm and Longitude: Wdd:mm Update Map
	* Anticipated start	
About OPUS	* Approx. size	Stations: 0 • • and Duration: 0 • • days
OPUS Projects Published Solutions		Create Cancel
	* required fields	Website Owner: National Geodetic Survey / Last modified by NGS.OPUS Monday, 22-Nov-2010 15:53:52 EST

NOS Home • NGS Employees • Privacy Policy • Disclaimer • USA.gov • Ready.gov • Site Map • Contact Webmaster

You can enter the approximate location by clicking on the map or typing directly into the entry fields. Let's set the approximate location by clicking on the map. The training data was taken in southern Louisiana.

2013-08-07

nors		AP	5	OPUS	: Online Posi	tioning User Service	,	
						National Geodetic S	urvey	
NGS Home	About NGS	Data & Imager	Tools	Surveys	Science & Education		Search	
+ - мт	ND MN	Creat	e Project					
ID WY V UT CO	SD W NE IA KS MO	т Ema IN OH Ку V	il address	your.na Refers to	ame@your.address o Project Manager who mu	st be registered with OPUS-Projects		
AZ NM	OK AR	TN * Pro	* Project title		ject @ 2006-10-01			
POWERED BY	TX	GA *Pro	ect type	OHtMod OFAA ☉ Other				
Canadadata	©2010 - Teg	Apr * Apr	rox. locatio	<mark>n</mark> Latitude	N29:34 and Longitu	ude: W90:43 Update Map		
OPUS Men	OPUS Menu 👘			rt 📃				
About OPUS		* App	rox. size	Stations	: 0 + - and Dura	tion: 0 🛛 🔸 - days		
OPUS Projec Published So	ts olutions			Crea	te Cancel			
		* requir	ed fields		Website Owner: National (	Geodetic Survey / Last modified by NGS.OF	'US Monday, 22-Nov-2010 15:53:52 EST	
		NOS Home • NGS	Employees •	Privacy Poli	cy • Disclaimer • USA.gov	• Ready.gov • Site Map • Contact Webr	naster	

DOWN		AF	5	OPUS	: Online Posi	tioning Use	r Service	
						Nation	nal Geodetic Survey	
NGS Home	About NGS	Data & Image	y Tools	Surveys	Science & Education			Search
+ - MT	ND MN	Crea	te Project					
ID WY V UT CO	SD WI NE IA KS MO	MI *En	ail address	your.na Refers to	ame@your.address Project Manager who mu	st be registered with O	PUS-Projects	
AZ NM	OK AR	TN *Pr	oject title	my pro	ject @ 2006-10-01			
POWERED BY	TX LA	GA *Pr	oject type	C HtMo	d CFAA ⓒ Other			
OPUS Men	62010 - Terga		prox. locatio	n Latitude:	N29:34 and Longitude	ude: W90:43 U	pdate Map	
OF 05 Men	ч	* Ar	ticipated sta	rt 📃	N			
About OPUS		* Ap	prox. size	Stations	: 🔲 🖬 🖬 🚮 Dura	tion: 0 🛛 🔸 🗉 day	/S	
OPUS Project Published So	ts Iutions			Creat	te Cancel			
		* requ	red fields		Website Owner: National (	Geodetic Survey / Last m	odified by NGS.OPUS Mon	lay, 22-Nov-2010 15:53:52 EST
	1	NOS Home • NG	Employees	Privacy Poli	ov • Disclaimer • USA.gov	• Ready.gov • Site Ma	en • Contact Webmaster	

Similarly, you can enter the anticipated start date manually or use a pop-up calendar feature. Clicking on the entry fields causes a calendar to appear.

NOR		AP	$\leq$ (	OPUS	: Online	Positi	ioning	User S	Servic	e	
								National	Geodetic	Survey	
NGS Home	About NGS	Data & Imagery	Tools	Surveys	Science & Ed	lucation					Search
<u>+</u> — мт	ND MN	Create	Project								
ID WY V UT CO	ID WY SD WI MI MI *Email address					dress er who must	t be register	ed with OPU	3-Projects		
AZ NM	OK AR	TN * Projec	t title:	my pro	ject @ 2006-	10-01					
POWERED BY	WERED BY TX LA GA * Project type				S O FAA ⊙ O	ther					
Canadata	©2010 - Teigneo	of Use * Appro	x. location	Latitude:	N29:34 a	nd Longitud	de: W90:43	B. Upda	te Map		
OPUS Men	u	* Antici	pated star			N					
Upload About OPUS		* Appro	x. size	•	November 🔄	<b>1</b> 0	•				
OPUS Projec	ts			รเ	Ј МО	TU	WE	TH	FR	SA	
Published So	lutions				1	2	3	4	5	6	
		* required	fields	7	8	9	10	11	12	13	Nov-2010 15:53:52 EST
	1	NOS Home • NGS En	ployees •	Pri 14	15	16	17	18	19	20	

If you prefer to enter the start manually, hitting the ESC key while the calendar is visible causes the calendar to disappear, then you can enter the date using a MM/DD/YYYY format.

non		XP	$\leq$ (	OPUS	: Online	Positi	oning	User S	Service	e	
								National	Geodetic §	Survey	
NGS Home	About NGS	Data & Imagery	Tools	Surveys	Science & Ed	ucation					Search
+ 	ND	Create	Project								
ID WY V UT CO	ID WY NE IA IL IN OH					tress r who must t	e registere	ed with OPUS	3-Projects		
AZ NM	OK AR	TN * Proje	:t title	my pro	ject @ 2006-1	0-01					
POWERED BY		AL GA * Projec	ct type	C HtMo	d O FAA ⊙ Ot	her	W(00:42		1		
OPUS Mer	iu	* Appro	x. location pated start	Latitude:	2006	id Longitude	:  VV90.43	Upda	ite Map		
Upload About OPUS		* Appro	x. size		October	• 2006	•				
OPUS Projec	ts Jutions			s	U MO	τu	WE	TH	FR	SA	
. amonou ou				1	2	3	4	5	6	7	
		* required	fields	-	e &	10	11	12	13	14	Nov-2010 15:53:52 EST
		NOS Home • NGS Er	nployees •	Prip 15	5 16	17	18	19	20	21	

You can select the month and year using the controls at the top of the calendar. Clicking on a day number causes it to be entered into the field. This project started October 1, 2006

	- C	OPUS: Online Positioning User Service
		National Geodetic Survey
NGS Home About NGS Data & I	magery Tools S	Surveys Science & Education Search
+ - MT ND III	Create Project	
ID WY SD WI MI NE IA V UT CO KS MO KY V	* Email address	your.name@your.address Refers to Project Manager who must be registered with OPUS-Projects
AZ NM OK AR TN	* Project title	my project @ 2006-10-01
POWERED BY TX LA AL GA	* Project type	C HtMod C FAA
Cancerata ©2010 - Terrarent Use	* Approx. location	Latitude: N29:34 and Longitude: W90:43 Update Map
OPUS Menu	* Anticipated start	10/01/2006
About OPUS	* Approx. size	Stations: 0 💦 + - and Duration: 0 🛛 + - days
OPUS Projects Published Solutions		Create Calvel
	* required fields	Website Owner: National Geodetic Survey / Last modified by NGS.OPUS Monday, 22-Nov-2010 15:53:52 EST

NOS Home • NGS Employees • Privacy Policy • Disclaimer • USA.gov • Ready.gov • Site Map • Contact Webmaster

You can type in the fields or click the increment/decrement buttons to complete the approximate size fields. The values are limited to 999 or less.

DORS		AP	$\leq$	OPUS	: Online Posi	tioning User Service	
						National Geodetic Su	rvey
NGS Home	About NGS	Data & Imagery	Tools	Surveys	Science & Education		Search
+ - мт	ND MN	Create	Project				
ID WY V UT CO	SD WI NE IA KS MO	*Email	address	your.na Refers to	ame@your.address ) Project Manager who mu	st be registered with OPUS-Projects	
AZ NM	OK AR	TN * Projec	:t title	my pro	ject @ 2006-10-01		
POWERED BY	TX LA	GA * Projec	:t type	C HtMo	d ◯ FAA ⊙ Other		
Canonata	©2010 - Tegan	opf Use * Appro	x. locatior	Latitude:	N29:34 and Longit	ude: W90:43 Update Map	
OPUS Men	u	* Antici	pated star	t 10/01/	2006		
Upload About OPUS		* Appro	x. size	Stations	: <mark>6 🛛 🚽 -</mark> and Dura	tion: <b>3</b> 🛛 🔸 - days	
OPUS Projec Published So	ts Iutions			Crea			
		* required	fields		Website Owner: National	Geodetic Survey / Last modified by NGS.OPUS	) Monday, 22-Nov-2010 15:53:52 EST
		NOS Home • NGS En	nployees •	Privacy Poli	cy • Disclaimer • USA.gov	• Ready.gov • Site Map • Contact Webma:	ster

### When the form is complete, click Create.

### Your Project Was Successfully Created

Your New Project Was Successfully Created Title: my project @ 2006-10-01

Project Manager Email: your.name@your.address

Project Keywords Project ID: HRDB86FC Used to submit data to this project.

Manager Keyword: FF5D3ZMU Provides access to project management functions.

Session Keyword: D\_SSVK68 Provides access to process individual project sessions.

#### Reminders

These keywords were also emailed to you. Be sure to save these keywords. Keywords may be changed at the Project **manager's page**. Use the OPUS Projects link on the **OPUS page** to access your Project.

After a moment, an introduction to your newly created project will be shown. It contains information necessary for you to work with your project. You'll also receive this information in email. Save this email for future reference.

### Your Project Was Successfully Created

Your New Project Was Successfully Created Title: my project @ 2006-10-01

Project Manager Email: your.name@your.address

Project Keywords Project ID: HRDB86FC Used to submit data to this project.

Manager Keyword: FF5D3ZMU Provides access to project management functions.

Session Keyword: D\_SSVK68 Provides access to process individual project sessions.

#### Reminders

These keywords were also emailed to you. Be sure to save these keywords. Keywords may be changed at the Project manager's page. Use the OPUS Projects link on the OPUS page to access your Project.

### Let's highlight the most critical information.

www.ngs.noaa.gov

### **Your Project Was Successfully Created**

Your New Project Was Successfully Created Title: my project @ 2006-10-01

Project Manager Email: your.name@your.address

Project Keywords

Project ID: HRDB86FC Used to submit data to this project.

Manager Keyword: FF5D3ZMU Provides access to project management functions.

Session Keyword: D\_SSVK68 Provides access to process individual project sessions.

#### Reminders

These keywords were also emailed to you. Be sure to save these keywords. Keywords may be changed at the Project manager's page. Use the OPUS Projects link on the OPUS page to access your Project.

# The project identifier, and the manager and session keywords are used to access to your project.

### **Your Project Was Successfully Created**

Your New Project Was Successfully Created Title: my project @ 2006-10-01

Project Manager Email: your.name@your.address

Project Keywords Project ID: HRDB86FC Used to submit data to this project.

Manager Keyword: FF5D3ZMU Provides access to project management functions.

Session Keyword: D\_SSVK68 Provides access to process individual project sessions.

Reminders These keywords were also emailed to you. Be sure to save these keywords. Keywords may be changed at the Project manager's page. Use the OPUS Projects link on the OPUS page to access your Project.

### Your project identifier can be shared thereby permitting others to upload data to your project.

www.ngs.noaa.gov

### **Your Project Was Successfully Created**

Your New Project Was Successfully Created Title: my project @ 2006-10-01

Project Manager Email: your.name@your.address

Project Keywords

Project ID: HRDB86FC Used to submit data to this project.

Manager Keyword: FF5D3ZMU Provides access to project management functions.

Session Keyword: D\_SSVK68 Provides access to process individual project sessions.

#### Reminders

These keywords were also emailed to you. Be sure to save these keywords. Keywords may be changed at the Project manager's page. Use the OPUS Projects link on the OPUS page to access your Project.

# The project identifier and the manager keyword allow you, the project manager, complete access to all parts of your project.

### **Your Project Was Successfully Created**

Your New Project Was Successfully Created Title: my project @ 2006-10-01

Project Manager Email: your.name@your.address

Project Keywords Project ID: HRDB86FC Used to submit data to this project.

Manager Keyword: FF5D3ZMU Provides access to project management functions.

Session Keyword: D\_SSVK68 Provides access to process individual project sessions.

#### Reminders

These keywords were also emailed to you. Be sure to save these keywords. Keywords may be changed at the Project manager's page. Use the OPUS Projects link on the OPUS page to access your Project.

The project identifier and session keyword offer limited access to your project's session and mark pages. This is useful if another person is to help with data processing for example.

### **Your Project Was Successfully Created**

Your New Project Was Successfully Created Title: my project @ 2006-10-01

Project Manager Email: your.name@your.address

Project Keywords Project ID: HRDB86FC Used to submit data to this project.

Manager Keyword: FF5D3ZMU Provides access to project management functions.

Session Keyword: D\_SSVK68 Provides access to process individual project sessions.

Reminders These keywords were also emailed to you. Be sure to save these keywords. Keywords may be changed at the Project manager's page

Use the OPUS Projects link on the OPUS page to access

The project's preferences can be accessed from the manager's page. These should be reviewed at creation so a convenient link to the manager's page is provided. Let's go there now by clicking the link.

www.ngs.noaa.gov



www.ngs.noaa.gov



Before proceeding, let's take a few moments to familiarize ourselves with the general layout of this page. We'll discuss the details in later steps of the training.

Website Owner: National Geodetic Survey / Last modified by the OPUS Projects Team

www.ngs.noaa.gov



At the top of the page, you may see notices about OPUS. Very rarely, a message specific to your project may appear here too. In these rare cases, no other project will see those messages.

Website Owner: National Geodetic Survey / Last modified by the OPUS Projects Team

www.ngs.noaa.gov



The manager and session pages are built around a Google Map Services<sup>™</sup> interactive map to help orient you in the project and region. As data are uploaded, icons representing the project's marks and included CORS will appear on the map.

2013-08-07

www.ngs.noaa.gov



Website Owner: National Geodetic Survey / Last modified by the OPUS Projects Team

www.ngs.noaa.gov



www.ngs.noaa.gov



Results From ALL OPUS SOLUTIONS -Controls MARKS MA error LEGE Save Changes and Close CO Ba Project Title, ID and Keywords A project title, ID and keywords are required. The project title can be almost any string, but brevity is recommended. On the other Preferences hand, the ID and keywords have restrictions: + Terrain The project ID must be unique to your project. Project List The ID and keywords are not case sensitive. Atlanta The ID and keywords can not contain more than eight characters. Design The ID and keywords can <u>only</u> contain letters, numbers, the dash and underscore characters. P Serfil my project @ 2006-10-01 Project Title: ho umbus Project ID: hrdb86fc Confirm: hrdb86fc Solutions Manager Keyword: ff5d3zmu Confirm: ff5d3zmu Providence Canyon Show File Session Keyword: d ssvk68 Confirm: d ssvk68 State Par 0 CC Manager Emails 0 Send Email Albany Waco Copies of emails created by and sent to you from the project can be sent to others automatically Setup CC Manager Emails To: Adjustment Tallahass Add To CC List tin --- NONE --- 🔻 Remove From CC List Review and Publish **Data & Solution Quality Thresholds** Data Processing Defaults Thresholds are used to highlight solution results that do not meet These are the defaults used in data processing. They can still Delete Project the quality preferences for your project. be changed on a case-by-case basis during processing setup Precise Ephemeris: Best Available Output Ref Frame: LET OPUS CHOOSE Add MARKS Minimum ARP Height (m): 0.000 Output Geoid Model: LET OPUS CHOOSE Maximum ARP Height (m): 3.000 CORS orpus GNSS<sup>1</sup> G (GPS-only) Minimum Observations Used (%): 80.0 hristi Tropo Model: Piecewise Linear Minimum Ambiguities Fixed (%): 80.0 Tropo Interval (s): 7200 0.025 Maximum Solution RMS (m): Elevation Cutoff (deg): 15.0

A new window containing the preference controls will appear. For ease of viewing, we'll zoom in and focus on each section of this window individually.

Website Owner: National Geodetic Survey / Last modified by the OPUS Projects Team



### Project Title, ID and Keywords

A project title, ID and keywords are required. The project title can be almost any string, but brevity is recommended. On the other hand, the ID and keywords have restrictions:

- The project ID <u>must be</u> unique to your project.
- The ID and keywords are not case sensitive.
- The ID and keywords can not contain more than eight characters.
- The ID and keywords can <u>only</u> contain letters, numbers, the dash and underscore characters.

Project Title:	my project @ 2006	-10-01		
Project ID:	hrdb86fc	Confirm:	hrdb86fc	
Manager Keyword:	ff5d3zmu	Confirm:	ff5d3zmu	
Session Keyword:	d_ssvk68	Confirm:	d_ssvk68	

The "Project Title, ID and Keywords" section is used to change those values. Note the rules for the ID and keywords. Some find these randomly generated strings challenging and prefer something more memorable. Changing these will cause an updated copy of the email introducing your project be sent to you. We'll leave them for now.

C Manager Emails         Copies of emails created by and sent to you from the project can be sent to others automatically.         C Manager Emails To:         Add To CC List         Remove From CC List		
C Manager Emails         Copies of emails created by and sent to you from the project can be sent to others automatically.         C Manager Emails To:         Add To CC List         Remove From CC List		
C Manager Emails         Copies of emails created by and sent to you from the project can be sent to others automatically.         C Manager Emails To:         Add To CC List         Remove From CC List		
CC Manager Emails Copies of emails created by and sent to you from the project can be sent to others automatically.  CC Manager Emails To:  Add To CC List  Remove From CC List NONE		
C Manager Emails Copies of emails created by and sent to you from the project can be sent to others automatically. C Manager Emails To: Add To CC List Remove From CC List NONE		
Add To CC List  Remove From CC List	C Managor Emails	
Add To CC List Remove From CC List	C Manager Emails Copies of emails created by	and sent to you from the project can be sent to others automatically.
Remove From CC List NONE 💌	CC Manager Emails Copies of emails created by CC Manager Emails To:	and sent to you from the project can be sent to others automatically.
	CC Manager Emails Copies of emails created by CC Manager Emails To: Add To CC List	and sent to you from the project can be sent to others automatically.
	CC Manager Emails Copies of emails created by CC Manager Emails To: Add To CC List Remove From CC List	and sent to you from the project can be sent to others automatically.

Sometimes the project will send emails to the you. You can create a list of addresses using the "CC Manager Email" controls so others also received these emails.

Thresholds are used to highlight solution results that do not meet the quality preferences for your project.

Precise Ephemeris: Minimum ARP Height (m): Maximum ARP Height (m): Minimum Observations Used (%): Minimum Ambiguities Fixed (%): Maximum Solution RMS (m): Maximum Height Uncertainty (m): Maximum Latitude Uncertainty (m): Maximum Longitude Uncertainty (m):

Best Available	•
0.000	
3.000	
80.0	
80.0	
0.025	
0.040	
0.020	
0.020	

The "Data & Solution Quality Thresholds" cause icons and table entries to be flagged if a mark's solution results exceed a threshold thereby indicating potential problems.

Thresholds are used to highlight solution results that do not meet the quality preferences for your project.

Precise Ephemeris: Minimum ARP Height (m): Maximum ARP Height (m): Minimum Observations Used (%): Minimum Ambiguities Fixed (%): Maximum Solution RMS (m): Maximum Height Uncertainty (m): Maximum Latitude Uncertainty (m): Maximum Longitude Uncertainty (m):

Best Available 💌
0.000
3.000
80.0
80.0
0.025
0.040
0.020
0.020

These thresholds are also applied to the OPUS solutions when project data files are uploaded. If an OPUS solution exceeds a threshold, a separate email describing the condition is sent to the address on the upload form.

Thresholds are used to highlight solution results that do not meet the quality preferences for your project.

Precise Ephemeris: Minimum ARP Height (m): Maximum ARP Height (m): Minimum Observations Used (%): Minimum Ambiguities Fixed (%): Maximum Solution RMS (m): Maximum Height Uncertainty (m): Maximum Latitude Uncertainty (m): Maximum Longitude Uncertainty (m):

Best Available	•
0.000	
3.000	
80.0	
80.0	
0.025	
0.040	
0.020	
0.020	

It is your responsibility to make your field teams aware of this possibility and that receiving one of these warnings does <u>not</u> mean the data file was omitted from the project.



Thresholds are used to highlight solution results that do not meet the quality preferences for your project.

Precise Ephemeris: Minimum ARP Height (m): Maximum ARP Height (m): Minimum Observations Used (%): Minimum Ambiguities Fixed (%): Maximum Solution RMS (m): Maximum Height Uncertainty (m): Maximum Latitude Uncertainty (m): Maximum Longitude Uncertainty (m):

Best Available 💌
0.000
3.000
80.0
80.0
0.025
0.060
0.030
0.030

This is a good time to set these values to your project's specifications, if any.

For training purposes only, let's change the maximum height uncertainty to 0.060 m; the latitude and longitude uncertainties to 0.030 m. The "Data Processing Defaults" are just that; default values and selections appearing in the project's processing forms. Like all defaults, they can be changed at the time of processing. These values are reasonable for most processing tasks, but let's select NORMAL for the "Constraint Weights".

### Data Processing Defaults

These are the defaults used in data processing. They can still be changed on a case-by-case basis during processing setup.

Output Ref Frame:	LET OPUS CHOOSE	•
Output Geoid Model:	LET OPUS CHOOSE	•
GNSS:	G (GPS-only)	•
Tropo Model:	Piecewise Linear	•
Tropo Interval (s):	7200	
Elevation Cutoff (deg):	15.0	
Constraint Weights:	LOOSE NORMAL	TIGHT
Network Design:	USER O ORS	MST O TRI
	· v	

The "Session Definition" section gives you some control over how data files are grouped together to form sessions for processing. These values can only be changed <u>before</u> session processing has begun. After processing has begun, this section is disabled and an explanatory message appears. In almost all cases, these values should not be changed; however, if you feel a need to change the definition, consult with the OPUS Projects team prior to making any changes.

Session Definition		
A data file is assigned to a session b time with other files. These paramete is required for a file to be assigned to	ased upon its overlaps in rs control how much overlap a session.	
Minimum Data Duration (s):	1800	
Minimum Session Overlap Multiplier:	0.5	

The "Mark Co-location Definition" gives you some control over how data files are associated with a mark. You see here that data files whose OPUS solution positions fall within 1 m of one another will be grouped together. However, RINEX and some other format specifications use a mark identifier string as the first four characters of the file name. If you are confident that this will be the case and <u>be correct</u> for all your project's data files, select "Mark ID". Here again, this definition can not be changed after session processing has begun.



Results From ALL OPUS SOLUTIONS -Controls MARKS MA error LEGE Save Changes and Clos CO Ba Project Title, ID and Keywords A project title, ID and keywords are required. The project title can be almost any string, but brevity is recommended. On the other Preferences hand, the ID and keywords have restrictions: + Terrain The project ID must be unique to your project. Project List The ID and keywords are not case sensitive. Atlanta The ID and keywords can not contain more than eight characters. Design The ID and keywords can <u>only</u> contain letters, numbers, the dash and underscore characters. P Serfil Project Title: my project @ 2006-10-01 ho umbus Project ID: hrdb86fc Confirm: hrdb86fc Solutions Manager Keyword: ff5d3zmu Confirm: ff5d3zmu Providence Canyon Show File Session Keyword: d ssvk68 Confirm: d ssvk68 State Par 0 CC Manager Emails 0 Send Email Albany Waco Copies of emails created by and sent to you from the project can be sent to others automatically Setup CC Manager Emails To: Adjustment Tallahass Add To CC List tin Remove From CC List --- NONE --- -Review and Publish **Data & Solution Quality Thresholds** Data Processing Defaults Thresholds are used to highlight solution results that do not meet These are the defaults used in data processing. They can still Delete Project the quality preferences for your project. be changed on a case-by-case basis during processing setup Precise Ephemeris: Best Available LET OPUS CHOOSE Output Ref Frame: Add MARKS Minimum ARP Height (m): 0.000 Output Geoid Model: LET OPUS CHOOSE Maximum ARP Height (m): 3.000 CORS orpus GNSS<sup>1</sup> G (GPS-only) Minimum Observations Used (%): 80.0 hristi Tropo Model: Piecewise Linear Minimum Ambiguities Fixed (%): 80.0 Tropo Interval (s): 7200 0.025 Maximum Solution RMS (m): Elevation Cutoff (deg): 15.0

Once you've reviewed the preferences and made necessary changes, click the "Save Changes and Close" button to apply these preference to your project.

Website Owner: National Geodetic Survey / Last modified by the OPUS Projects Team

www.ngs.noaa.gov



## A Few Words About Impersonation

- If an impersonator creates a project using your email address, the project will be created and you will receive an email saying so.
- Impersonator will have the keywords and could then ADD his/her own email to the CC list (see slide 42). You will receive an email saying so.
- Presumably by now, you're wondering what's up.
- Contact OPUS PROJECTS TEAM requesting a deletion of the project.
- If problem persists, you can ask OPUS PROJECTS TEAM to deauthorize your current email address.
- You also have impersonator's email to enable your own optional "action"

## A Few Words About Project ID's

- If you choose to change the Project ID from its randomly assigned keyword to one of your choosing, you must choose a new keyword that is:
  - UNIQUE among all other projects in the world
  - 8-character maximum / not case-sensitive

# OPUS Projects Manager Training Step 1 : Creating a Project

Mark Schenewerk mark.schenewerk@noaa.gov 816-994-3067