

Oregon GPS Reference Station Meeting Minutes

Meeting Date: 14 July 2005

Facilitator: Ron Singh and Ken Bays

Attendees: Jim Griggs, Steve Thornton, Jerry Floyd, Marcus Reedy, Steve Beecher, Alan Hammond, Mike Berry, Dennis Ernst, Jon Driscou, Annette DePaz, Phil Costaggini, Bob Thurman, Thom Warren, Dan Linscheid, Dixon Hoyle, Bob Hines, John Nemecek, Mike Bigelow, George Cathey, Dave Schmidt, Bob Lycke, Bill Durmmound, Karin Jorgensen, John Matthews, Scott Okell, Eric Berry, Mark Riggins, Carl Clinton, Stephen Flause, Terrie Franssen, John Pike, John Dahng, Jim Elam, Bob Schultz

Ron Singh and Ken Bays did a [PowerPoint Presentation](#) on the network. They explained how the system is going to work, what is required of each of the partners, why this is a benefit to all the potential partners and to the public, and future plans for the network.

SYSTEM USES

There was a discussion about the potential uses for a State wide network. Listed below are some of the options that were mentioned at the meeting.

- Surveying
 - RTK
 - Rapid Static
- Machine Control
- DGPS resource grade surveying
- GIS real time or post processing
- Intelligent Transportation
- Precision Agriculture

CURRENT STATUS FOR EACH PARTNER

Agency	Number of Current Units	Current Location	Possible location	Number of Potential Units
City of Beaverton	1 CORS station	City Hall building		None currently
Lane County	1 CORS station	Currently at county office	Willing to move to either Oakridge or Florence	
Eugene Water & Electric	None currently			Would like to setup a unit
City of Newberg	1 CORS station	City Hall building		None currently
City of Springfield	None currently			Would like to setup a unit
Deschutes County	None currently	County wide		5 units will be put up in the next 2 months
Yamhill County	None currently	Maybe west Yamhill County		Would like to work with City of Newberg for best siting
US Forest Service	1 CORS Station(resource accuracy only)	Portland		Possible to have other agencies place their unit on Forest Service land
Clatsop County	None currently			Would like to setup a unit
Portland Water Department	1 CORS station		Plan to put on Portland Bldg.	Not up yet
Marion County	3 CORS Station	Woodburn, Salem, Stayton		None currently
OSU	1 CORS Station	OSU campus Oceanography		None currently

Oregon GPS Reference Station Meeting Minutes

Jackson County	1 CORS Station	Currently not setup		None currently
Curry County	None currently			Would like partner with another agency
Douglas County	2 CORS Station	One on Roseburg Court House One is currently working as a rover		None currently
Multnomah County	None currently			Would like to setup a unit
City of Salem	1 CORS Station	West Salem		None currently
Polk County	1 CORS Station	Public Works Compound		None currently
Clackamas County	1 CORS	At county bldg		4 more planned
Washington County	1 CORS Station	Hillsboro	Further West	1 Unit
Tualatin Valley Water District	1 CORS Station	Aloha		

PARTNER RESPONSIBILITIES

Tentatively there is a meeting set for August 31, 2005 to discuss the details on what each partner will be accountable for, and any items that are tied to the contract side of the partnership.

Some of the areas that need to be addressed are:

- ✓ Who will be allowed to use the network?
- ✓ How do we pay for maintenance of the network?
- ✓ Who and What will be on the contracts?
- ✓ Etc....

In the middle of September there will be a meeting to discuss the standards for the network, which will involve the IT the appropriate IT staff.

Some of the areas that need to be addressed are:

- ✓ To use radios or cell phones?
- ✓ What type of broadcast will be used?
- ✓ What are the site selection standards?
- ✓ What are the network standards?
- ✓ Etc....

Ron Singh informed the group what ODOT would be bringing to the table for the network.

ODOT will:

- ✓ Purchase the Reference station network software
- ✓ To maintain the WebPages
- ✓ Currently provide 7 units
- ✓ Purchase the main hardware equipment needed to run the network.

Oregon GPS Reference Station Meeting Minutes

QUESTION AND ANSWERS

Question

Can we use the WAAS system for survey work?

Answer

The group was informed the group that the WAAS system was never intended for ground use and should not be relied upon.

Question

Will the Plate Boundary group be part of the network?

Answer

They will not be able to provide the data to everyone because of the time constraint that they are currently under. They will only provide the data to the land owner on which the reference station is located on.

Question

Can a agency join with one station?

Answer

Yes, however there should be 3 possibly 4 stations to make a sub-network. It may be that there is another agency near by that has a unit they are ready to put on and ODOT could put up one other unit, which would make a sub-network.

Question

Is it correct that cellular coverage is the weak link in this network?

Answer

If we were delivering the correctors via cell phone then that is correct, however Unicef Company is putting up several hundred cell phone towers in eastern Oregon, which will solve the problem.

Action Item: Scott Branco will type up the minutes and post them on the web page.

Action Item: Dixon will contact Minn DOT to gather information on how they dealt with contract and technical problems linked to a reference station network that includes different agencies.

Action Item: Scott Branco will post a copy of the current proposed sites the network.

Action Item: Karin Jorgensen, ODOT, will produce a template for intergovernmental agreements before the next meeting. Ken Bays will furnish her with copy of agreement between WSDOT and City of Seattle for the Puget Reference Station Network.

Next Meeting: Wednesday, August 31 will be located at the Materials Lab 800 Airport Rd SE Salem, OR 97301-4798 in the large conference room.

Oregon GPS Reference Station Meeting Minutes

Attendees at July 14, 2005 Meeting				
Name	Agency/ Business	Title	Phone	E-mail
Bays, Ken	ODOT Geometronics	Geodetic Control Specialist	(503)986-3543	kenneth.bays@odot.state.or.us
Beecher, Steve	Jackson County	Surveyor's Office	(541) 774-6193	BeecheSM@jacksoncounty.org
Berry, Eric	Polk County	County Surveyor	(503) 623-9287	berry.eric@co.polk.or.us
Berry, Mike	Deschutes County	County Surveyor	(541) 322-9620	mikeb@co.deschutes.or.us
Bigelow, Mike	EWEB	PLS	(541) 341-1849	mike.bigelow@eweb.eugene.or.us
Branco, Scott	ODOT Geometronics	Office Coordinator	(503) 986-3541	anthony.s.branco@odot.state.or.us
Cathey, George	City of Beaverton	City Surveyor	(503) 526-2455	gcathey@ci.beaverton.or.us
Clinton, Carl	Clackamas County	Deputy County Surveyor	(503) 353-4498	carlcli@co.clackamas.or.us
Costaggini, Phil	Lane County	Engineer Tech II	(541) 682-8561	phil.costaggini@co.lane.or.us
Dahne, John	Washington County	Survey Supervisor	(503) 846-3686	john_dahne@co.washington.or.us
de Paz, Annette	City of Newberg	Engineering Tech 2, LSIT	(503) 537-1237	annette.depaz@ci.newberg.or.us
Driscoll, Job	City of Springfield	Survey Chief	(541) 726-3673	jdriscoll@co.springfield.or.us
Drummond, Bill	U S Forest Service	Region 6 Land Surveyor	(503) 808-2420	wdrummond@fs.fed.us
Elam, Jim	Washington County	County Surveyor	(503) 846-3405	jim_elam@co.washington.or.us
Ernst, Dennis	City of Springfield	City Surveyor	(541) 726-2098	dernst@ci.springfield.or.us
Flause, Stephen	Douglas County	Survey Tech	(541) 440-4280	
Floyd, Jerry	Curry County	County Surveyor	(541) 247-3225	floydj@co.curry.or.us
Franssen, Terrie	Douglas County	Surveyor for county surveyor	(541) 440-4279	trfransse@co.douglas.or.us
Griffis, Jim	David Evans & Associates	VP, Directory of Surveying	(503) 499-0317	jim.griffis@deainc.com
Hammond, Alan	Clackamas County	Network Engineer	(503) 723-4806	alanh@co.clackamas.or.us
Hines, Bob	EWEB	PLS	(503) 341-1842	bob.hines@eweb.eugene.or.us
Hoyle, Dixon	NGS	State Geodetic Adviser OR	(425) 487-1708	dixon.hoyle@noaa.gov
Jorgensen, Karin	ODOT	Intergovernmental Agreements Coordinator	(503) 986-6913	Karin.L.JORGENSEN@odot.state.or.us
Linscheid, Dan	Yamhill County	County Surveyor	(503) 434-7515	surveyor@co.yamhill.or.us
Lycke, Bob	Kuker-Ranken Inc.	President	(425) 771-7776 x 216	blycke@krinc.net
Matthews, John	Lane County	Field Supervisor	(541) 682-3626	john.matthews@co.lane.or.us
Nemecek, John	City of Salem	City Land Surveyor	(503) 588-6211	jnemecek@cityofsalem.net
Okell, Scott	Multnomah County	Survey Supervisor	(503) 988-3600	scott.r.okell@co.multnomah.or.us
Pike, John	Douglas County	Survey Tech	(541) 440-6018	japike@co.douglas.or.us
Reedy, Marcus	David Evans and Associates	Survey Manager	(503) 361-8635	mtr@deainc.com
Riggins, Mark	Marion County OR	Marion County Surveyor	(503) 373-4316	mriggins@co.marion.or.us

Oregon GPS Reference Station Meeting Minutes

Schmidt, Dave	Tualatin Valley Water District	Engineering Tech II	(503) 848-3026	david@tvwd.org
Schultz, Robert	Oregon State University	Professor, Civil Engineering	(541) 737-4579	robert.schultz@oregonstate.edu
Singh, Ron	ODOT Geometronics	ODOT Chief of Surveys	(503) 986-3033	Ranvir.SINGH@odot.state.or.us
Thornton, Steve	Clatsop County	County Surveyor	(503) 325-8112	sthornton@co.clatsop.or.us
Thurman, Bob	Lane County	Engineering Associate	(541) 682-8560	Robert.THURMAN@co.lane.or.us
Warren, Thom	Portland Water Bureau	Survey Supervisor	(503) 823-7524	twarren@water.ci.portland.or.us