

FRAMEWORK TEAM REPORTS

Third Quarter 2007

FIT Webpage:

www.oregon.gov/DAS/EISPD/GEO/fit/FIT.shtml

The Framework database now has full editing capabilities for the FIT leads to update.

To use the report viewer, the URL is

http://www.oregonexplorer.info/frameworkdata_report/Default.aspx.

Administrative Boundaries – Diana Walker, 503-986-4788

The Admin-FIT has divided into five sub-FITs: General Government, Planning, Elections, Agency/Program, and Special Service Districts. Each group is recruiting members and writing a plan to develop their respective elements.

Bioscience – Jimmy Kagan, 503-731-3070 x111

Wetlands

No report.

Fish Passage – Jon Bowers

The Draft Oregon Fish Passage Barrier Data Standard (OFPBDS) was presented at the June 2007 Framework Standards Forum in Salem. There was agreement to move the standard forward to OGIC, provided that a couple minor issues raised by the BLM were addressed. Additionally, comments from NOAA Fisheries were received after the Forum presentation. In order to address these minor issues, a new version (0.5) of the draft standard was completed by the workgroup and provided for OGIC consideration at their September meeting.

The workgroup is not actively meeting at this time; however, Dept. of Fish and Wildlife staff have been working to identify potential funding partners to begin development of a Framework Fish Passage Barrier dataset. Plans are to submit a proposal that includes multiple partners to the Geospatial Enterprise Office in late 2007/early 2008.

Cadastral – Cress Bates, 541-682-8559

Orrin Frederick (BLM), Marc Thomas (FGDC) and Dean Anderson (Polk County) have all agreed to serve on the Cadastral FIT with Cress Bates (Lane County) in the lead and Gail Ewart (GEO) riding sweep. This group will focus on vertical integration issues within the Cadastral theme.

Tax Lots (ORMAP) – Phil McClellan

Next round of the Goal 2 data exchange is coming up. DOR is preparing for the third round of this effort. Example datasets were provided after the last exchange to give counties a chance to examine data in the proper format. ORMAP Tech group discussed various issues related to sharing the tax lot data with State agencies. This item will be on the next ORMAP Tech group meeting.

PLSS – Dean Anderson

Dean presented the idea of a PLSS database to the Surveyors at their meeting this summer. Dean gave a report of that encounter at the Framework Forum at Chemeketa on June 27.

Public Lands – Brent Blair, 503-808-6177

This workgroup is still forming. If you are interested, contact Brent or Gail.

Climate – George Taylor, 541-737-5705

1. Updated precipitation frequency mapping

We have completed datasets for updated precipitation frequency maps for Oregon. These are the first such maps since 1973. Included are 2-, 5-, 10-, 25-, 50-, and 100-year return maps for 24-hour periods. The maps are being reviewed by ODOT and OWRD and are expected to be made available later this year.

2. Snow Load Maps

The Structural Engineers' Association of Oregon sponsored a project to create a new coverage of 50-year snow loading in Oregon. The latest previous version was published in the 1970s. The mapping has been completed and delivered to SEAO.

Elevation – Emmor Nile, 503-945-7418

LiDAR – Ian Madin

The Lidar workgroup of the Elevation FIT will have its first meeting Thursday, September 20, to discuss a Lidar standard, an informal state spec for new lidar acquisition, and the progress of the Oregon Lidar Consortium. DOGAMI has formed the Oregon Lidar Consortium in response to a legislative mandate to collect Lidar data in the state using a partnership model, with 1.5 M \$ of initial funding provided through OWEB.

In the Portland Area, the Portland Lidar Consortium has added new partners to survey an additional 130 square miles in the Sandy River and Mt Hood area. This brings the total Lidar coverage for the project, including ODF data, to 2230 square miles. Part of the ODF data has been delivered to the PSLC for QC, and additional deliveries are imminent. We hope to have the first data delivery of the 2007 winter flight by Nov 1, 2007.

Geodetic Control – Ken Bays, 503-986-3543

I. **Oregon Real-time GPS Network (ORGN)**, www.theorgn.net, providing a consistent geodetic control coordinate framework for the State of Oregon.

A. Up and running at Initial Operating Capacity with 21 GPS reference stations:

1. Fourteen GPS reference stations operating in northern Oregon I-5 corridor.
2. Four GPS reference stations operating in southern Oregon I-5 corridor.

3. Three GPS reference stations in central Oregon: Bend, Redmond, La Pine vicinity.

B. ODOT Geometronics is budgeted to expand ORGN to 67 stations by the end of 07-09 fiscal biennium--dependent on partner participation and contributions.

C. Sixty-seven rover accounts have been issued to allow use of the real-time GPS correctors from the ORGN:

1. 18 ODOT accounts.
2. 12 accounts for other government agencies: county, city, academic.
3. 24 accounts for private surveying firms.
3. 6 accounts for private GPS vendors and manufacturers.
4. Users may apply for a rover account on-line at:

<http://www.theorgn.net/access.html>

5. Rover accounts at no charge on a trial basis for calendar year 2007. ODOT reserves the right to charge a reasonable fee for rover accounts starting in 2008 to fund maintenance and upgrades of

ORGN, but not to fund the initial build of ORGN.

D. ODOT Geometronics is a member of the National Geodetic Survey's newly formed Real-time GPS Network (RTN) Team to develop national standards for regional and state RTN networks.

II. Height Modernization in Oregon (in cooperation with the U.S. National Geodetic Survey.)

A. A long-range plan to improve the geoid model in Oregon.

1. Summer/Fall 2007: Observation of absolute and relative gravity stations in Oregon.

a. Dan Winester, U.S. National Geodetic Survey, has performed absolute gravity readings on 19 stations in Oregon. Hosted and travel paid by ODOT Geometronics

b. ODOT Geometronics unit and partners are currently conducting a 17-week relative gravity campaign in Oregon to tie to absolute gravity stations observed by Winester.

2. Future:

a. Precise level lines run from existing high-order vertical geodetic control to GPS reference stations in the ORGN.

b. High accuracy GPS observations on existing high-order vertical control in Oregon.

c. Using the updated gravity, leveling, and GPS data, NGS will produce a more accurate geoid model in Oregon.

d. An improved geoid model in Oregon will allow more accurate measurement of vertical heights with GPS, thus greatly improving the efficiency and cost of vertical control surveys.

B. A consortium has formed consisting of the US National Geodetic Survey, ODOT Geometronics Unit, and interested partners.

III. Preservation of existing vertical geodetic control in Oregon:

ODOT Geometronics has updated a plan to respond to imminent destruction of existing vertical geodetic control monuments in Oregon and replace them before destruction (based upon need).

IV. Database of ODOT Geodetic Control

A. ODOT Geometronics in initial phases of inventorying both hard copy and previous attempts to create digital data bases for existing ODOT geodetic control: vertical and horizontal.

B. Goal is to have all ODOT vertical and horizontal control data available on-line and available with several different search criteria.

C. A majority of the ODOT vertical control data is in hard copy format with no latitude and longitude information to georeference the control to GIS.

D. This database would not duplicate control data already in the National Spatial Reference System maintained by NGS and available on the NGS website.

Geoscience – Ian Madin, 971-673-1542

Geology

Soils – Jay Noller, OSU

Hazards – Andre LeDuc, 541-346-5833

Floodplain – Mark Darienzo, DLCD

The Department of Land Conservation and Development (DLCD), with the help of the Flood Map Modernization Working Group, completed the Floodplain Data Exchange Standard and Blueprint for Floodplain Mapping. Chris Shirley of DLCD who led the development of the Standard and Blueprint as the Flood Map Modernization GIS Specialist is now the National Flood Insurance Program/Natural Hazards Specialist for the department. DLCD is in the process of hiring someone with GIS experience who will implement the Blueprint for Floodplain Mapping and lead the development of a digital flood map maintenance plan for Oregon.

Hydrography – Bob Harmon, 503-986-0866

The PNW Hydro Framework Steering Committee held a meeting on 6/28 in Portland. The topics discussed were:

- NHD Stewardship agreement
- Watershed boundaries certification
- NHD densification project
- PNW hydro framework event management & migration application
- Funding sources/grants discussion
- Kid's GIS Portal presentation
- LiDAR & the PNW Hydro Framework presentation & discussion

- Budget update

Land Use / Land Cover – Eric Brandt, 541-682-4338
Jimmy Kagan, 503-731-3070 x111

Land Use

Regional interest in buildable land inventories (BLI) related to deliberation on UGB expansions and political discussions around supply of residential, commercial and industrial lands have pushed our immediate focus to data quality. We hope to return our attention to broader redesign considerations during the second half of the fiscal year. These efforts are expected to include: (1) looking at potential for complementary application of standard land cover data in combination with higher resolution land use data; (2) a new land use data model--likely relatable to NAICS codes; and (3) an automated "push button" BLI system to support periodic and ad hoc analysis of current land inventories. We will be looking for a sponsor to help pilot the latter piece of work which could provide a standard tool of broad interest.

Land Cover

No report.

Orthoimagery – Randy Sounhein, 503-378-3805

New Oregon FSA GIS Rep Kent Willet says no NAIP imagery was flown in 2007. FSA is soliciting interest for the acquisition of 2008-09 imagery. If we are interested, we need to make a commitment very soon for a cooperative effort to acquire imagery for Oregon. As part of their five-year cycle, FSA plans on generating one-meter imagery of agricultural lands in Oregon in 2010. Oregon should plan on acquiring the remaining portions of the state—about 1/3 of the state.

The Portal project has completed three phases. Cy Smith and Janine Salwasser are coordinating the fourth and final phase release--rollout to the public.

Preparedness – Ken Murphy, OEM

Preparing to move forward.

Transportation – Dennis Scofield, 503-986-3156

Road Centerlines/Address Ranges

OR-Trans road centerlines Framework is transitioning from data development to data maintenance. Road centerlines are updated as changes are received. We are working towards a six-month update cycle. QA/QC and integration issues remain between local road networks and the state highway system. The primary focus is resolving overshoots and undershoots and missing or duplicate segments. The state highway network has been routed, and over-dimensional restrictions will be applied to it over the

next couple months. OR-Trans is fielding increasing requests for its data from other state agencies wanting it use it to conduct official state business.

Airports – Chris Cummings

A point dataset of airports is in the initial stages of quality control and metadata update by Department of Aviation.

Utilities – Emmor Nile, 503-945-7418

PUC has scanned their telephone exchange area maps and are planning to develop a TEA layer. If you would like to see something more happen with this theme, contact Emmor.