

NOAA, National Geodetic Survey
HEIGHT MODERNIZATION COORDINATION MEETING
DRAFT NOTES
SSMC3, Room 8836

Date: Thursday, July 11, 2013

Time: 2:00-3:30 pm East Coast time

Attendees:

Call-ins from: FL (Ron Hanson); IL (Sheena Beaverson, Janet Thornhill); LA (Josh Kent, Larry Dunaway), MI (Shawn Roy), NGS (Vicki Veilleux, Erika Little, Galen Scott, Dan Callahan, Perky Falconer), SC (Dick Woods, Matt Wellslager), WA (Dave Steele), WI (David Moyer); USACE (Mark Huber)

Silver Spring: NGS (Christine Gallagher, Neil Weston, Joe Evjen, Philippe Hensel); CO-OPS (Michael Michalski)

Advisors/Coordinators: Brian Ward (AR), Dave Rigney (MI), Dan Prouty (TX), John Ellingson (WI)

Note:

It is NGS' habit to only capture names of attendees who speak up at the initial roll call or during the meeting. We respect those who may wish to attend anonymously. If you want your name captured in the recorded notes, and you do not see it listed here, email Christine.Gallagher@noaa.gov, or ngs.htmod@noaa.gov.

1. NGS/CO-OPS Updates – e.g. budget, projects, outreach

○ **Height Mod projects (Gallagher)**

- Height Mod will be developing some distance learning online modules; please let Christine know if you have particular topics of interest or education need
- If you missed last month's meeting on NOAA Budget Outlook and Program Planning, I wanted to highlight one point of clarification. The funds allocated for NGS products and services (formerly Geodesy, Height Modernization, Mapping and Charting, and Shoreline Mapping) are now combined within a "Navigation, Observations, and Positioning" portfolio with other NOAA/National Ocean Service navigation focused offices. See the full budget summary here: http://www.corporateservices.noaa.gov/nbo/fy14_bluebook/FINALnoaaBlueBook_2014_Web_Full.pdf.

○ **OPUS-Projects training (Little)**

- NGS held an internal training for OPUS-Projects and bluebooking from June 24-27 in Corbin, VA. The training went well, with 30 people attending online or in-person. External training is planned for August 2013, and once OPUS-Projects is in production (i.e. no longer Beta), then more trainings will be planned.

- **Best Practices for Real Time GNSS Network Administration (Weston)**
 - NGS will host a three hour webinar to discuss RTN best practices. Speakers will give short presentations on a variety of topics, and then the meeting will open for general discussion. Currently, 200 people are registered, and it is expected that NGS will hold another webinar in six to nine months.
 - The individual presentation topics include: RTN methodologies and best practices; RTN operations; Precision versus Accuracy; and Aligning RTN's to the NSRS
- **Geoid (Roman)**
 - NGS plans to develop a new gravimetric geoid by the end of the calendar year, and it will be made available through the GRAV-D web page. It will include a larger area (i.e. pole to equator). Additionally, it may begin to use newly collected aero gravity and/or newly "cleaned" terrestrial gravity.

2. Updates from States – e.g. projects, outreach

- **South Carolina (Woods)**
 - SC completed a project at the end of May with 244 stations, and it is already published in the IDB.
 - Currently working on a 3 county project with 210 stations, observations to be completed in August.
- **Florida (Hanson)**
 - FL DOT is about to begin a system-wide update/upgrade of their RTN network, both software and hardware.
- **Michigan (Roy/Rigney)**
 - Will be attending a large farm expo in July at Michigan State University to highlight value of Height Modernization.

3. Monthly presentation

CORS911: Real-time subsidence monitoring using GPS

Joshua D. Kent, Louisiana State University

The sinkhole located within the Napoleonville salt dome in Assumption Parish, Louisiana, threatens the stability of Highway 70 – a state maintained route. In order to mitigate the possible damaging effects to the highway and address public safety concerns, the Center for GeoInformatics at Louisiana State University (LSU) has implemented a research program of continuous, long-term measurement of the infrastructure assets located within the vicinity of the sinkhole. Implementation experience and initial findings will be shared.

- **Question (Weston)** – The CORS are distributed east to west, but are you considering any along a north to south alignment?
- **Answer (Kent)** – That would be desirable, but we are limited in possible locations since much of surrounding area is unstable marsh.

- **Question (Evjen)** – Where did the name CORS911 come from?
- **Answer (Kent)** – From Roy Dokka, who envisioned a system that could be deployed to assist in emergency response.

- **Question (Roman)** – Can I view the salt dome data layer for further analysis?
- **Answer (Kent)** – Yes, it is available online, and higher resolution maps can also be procured.

- **Question (Wellslager)** – Why did you collect 5 min GPS observations (rather than longer)?
- **Answer (Kent)** – Collection time was dictated by safety precautions as the highway is very busy.

- **Question (Hensel)** – Can you expand upon how stable your data looks, given you are on a marsh surface?
- **Answer (Kent)** – Our RTN operator confirmed the data looks stable, although marsh movement due to seasonal and/or weather variability is apparent.

4. Other Business

- **Question (Beaverson)** – Can we re-visit the Height Mod benefits / metrics / GIS analysis discussion from the Height Mod partner meeting?
- **Answer (Gallagher)** – Yes.

Important Links: Previous months' meeting notes and a list of future meeting presentations can be found at: <http://www.ngs.noaa.gov/heightmod/MeetingNotes.shtml>

Next meeting: Sept 12, 2013

Guest Presentation: Pre-processing GNSS Data with TEQC
Mark Huber, U.S. Army Corps of Engineers

Recent Events

June 19, Warwick, RI – Rhode Island Society of Professional Land Surveyors

June 20, Columbus, OH – 2013 Ohio Land Records Modernization Conference

June 24-28, Corbin, VA – Internal NGS training on updated Bluebooking procedures

June 25-27, Tampa, FL – Gulf of Mexico Alliance (GOMA) 2013 All Hands

Upcoming Events

July 8-12, San Diego, CA – 2013 Esri International User Conference

July 30, Silver Spring, MD – Federal Geodetic Control Subcommittee Meeting

July 31, webinar only - Best Practices for Real Time GNSS Network Administration

Aug 21-25, St. Pete Beach, FL – Florida Surveying and Mapping Society

Sept 16-19, Providence, RI – GIS-PRO '13 (URISA Annual Conference)

Sept 16-19, Laramie, WY – GeCo West 2013

Oct 2-10, Boulder, CO – Absolute Gravimeter Inter-comparison

Oct 27-30, Denver, CO – 2013 Geological Society of America Annual Meeting and Exposition

Nov 3-7, San Diego, CA – Coastal and Estuarine Research Federation Biennial Conference

Dec 9-13, 2013, San Francisco, CA – American Geophysical Union (AGU) Fall Meeting