

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

Date: Thursday, Sept. 12, 2013
Time: 2:00-3:30 pm East Coast time

Attendees:

Call-ins from: CA (John Canas, Kevin Kelly, Scott Martin), IL (Sheena Beaverson), KY (Wolfgang Ziegler), MD (Renee Shields), MI (Shawn Roy), MT (Jay Walker), NGS (Vicki Veilleux, Dan Callahan, Mark Schenewerk, Rick Foote), SC (Dick Woods), WA (Dave Steele), WI (David Moyer); NPS (Karl Brown); USACE (Mark Huber)

Silver Spring: NGS (Christine Gallagher, Neil Weston, Joe Evjen, Philippe Hensel, Aida Polite, Zelda Lecoat, Brian Shaw, Galen Scott); CO-OPS (Michael Michalski)

Advisors/Coordinators: Pam Fromhertz (CO), Dave Newcomer (FL), Scott Lokken (NC), Dan Martin (VT), 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 Program will be sponsoring a western regional states webinar on November 19 – register online now: http://www.ngs.noaa.gov/corbin/class_description/HM_WesternRegion.shtml
 - Height Mod Program is beginning to plan a 2014 face-to-face national meeting. Currently planning for a meeting at the NOAA Disaster Response Center in Mobile, AL on April 29-30. Please let NGS know of any potential conflicts.
- **OPUS-Projects (Evjen/Little)**
 - OPUS Projects is expected to become formally operational in the next few weeks.
 - Training at Corbin Training Center will continue to be posted online, and we hope to schedule others around the country in the coming months.

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

- **Northeast region (Martin)**

- A project plan is being developed for a Height Mod project at Lake Champlain.
- The project is a joint effort between New York state and Quebec, and it is important as Canada is about to implement their geoid based vertical datum.
- **Illinois (Beaverson)**
 - IL is leveling aggressively and creating a spur level line to its Great Lakes gauge.
 - IL has questions since the level line is not closing within NGS specs, so Christine will get Sheena in contact with Jeff Oylar at CO-OPS.
 - IL is on year 3 or 5 in funding, has 2 survey agencies on retainer, and wants to add an aerial company on retainer for lidar work.
 - Sheena asked which state reported the agency that most commonly destroyed bench marks, and Wolfgang Ziegler confirmed it was a representative from Kentucky.

3. Monthly presentation

Pre-processing GNSS Data with TEQC

Mark Huber, U.S. Army Corps of Engineers

The University Navstar Consortium (UNAVCO) hosts TEQC, software that helps solve many pre-processing problems with Global Navigation Satellite System (GNSS) data. The U.S. Army Corps of Engineers uses GNSS observations to complete many projects, so a more user-friendly interface for TEQC was developed, and a brief demonstration will be shared during the presentation.

The presentation and tool is online at: <http://teqc.silkwerks.com/>

- **Question (Evjen)** – Have you shared this tool with UNAVCO?
- **Answer (Huber)** – No.
- **Question (Evjen)** – Would you consider having it offered as an NGS user-contributed software?
- **Answer (Huber)** – Yes.
- **Question (Weston)** – Does the user have to populate all fields or are their default settings?
- **Answer (Huber)** – The program harvests as much information as it can from the uploaded file.
- **Question (Martin)** – Can you change the default directory?
- **Answer (Huber)** – Yes.
- **Question (Evjen)** – Can it batch files?
- **Answer (Huber)** – Yes.

- **Question (Damiani)** – Can you save as a text file? And can it handle extended output?
- **Answer (Huber)** – Yes.

4. Other Business

- **none.**

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: Oct 10, 2013

Guest Presentation: OPUS Projects

Mark Schenewerk, NGS

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