

NOAA, National Geodetic Survey
HEIGHT MODERNIZATION COORDINATION MEETING
DRAFT NOTES – July 21, 2011

Attendees:

Call-ins from: ID (Rayce Ruiz), IL (Sheena Beaverson and Amy Eller), KY (Wolfgang Ziegler), NM (Earl Burkholder), PA (Brad Foltz), TX (Greg Hauger), NGS (Dan Callahan and Perky Falconer), USACE (Mark Huber), USGS (Larry Hothem)

Silver Spring: NGS (Renee Shields, Ross Mackay, Dave Doyle, Gilbert Mitchell, Jonetta Johnson, Christine Gallagher, Michael Dennis, Mark Eckl, Joe Evjen); CO-OPS (Tom Landon); NPS (Neil Winn)

Advisors/Coordinators: Pam Fromhertz (CO), Dave Newcomer (FL), Chris Pearson (IL), Monroe Rivers (KS), Dennis Riordan (MS), Scott Lokken (NC), Dan Martin (VT)

1. NGS/CO-OPS Project Activities

National Adjustment of 2011 (Dennis)

NA2011 is moving along pretty smoothly. Just completed another complete free (unconstrained) pre-adjustment for entire national network; now in the process of residuals analysis, removing outliers. Over 400,000 vectors in the network and approximately 80,000 stations. Plan to do first preliminary constrained adjustment in August that will be constrained only to the Multi-Year CORS Solution (MYCS), no passive control will be constrained.

The MYCS is essentially ready to roll out, but CORS coordinates will not be updated in the NGS-IDB until the National Adjustment is complete. Prior to the completion of the National Adjustment, OPUS users will have a choice to have solutions reference CORS96 or MYCS (i.e., NAD 83(2011) epoch 2010.00). Shortly after the National Adjustment is complete, there will be a release of GEOID12, and the release of NA2011 may be postponed slightly (up to about a month) to allow a concurrent release of NA2011 and GEOID12, if GEOID12 is completed quickly enough. Deadline for submitting projects to be included in the National Adjustment of 2011 is Aug. 31. However, unlike the previous (2007) adjustment, NGS will be able to determine network and local accuracies for projects submitted after the National Adjustment.

Discussion (Dennis/Fromhertz/Mackay/Doyle)

What about OPUS-DB? There will eventually be a global update of OPUS-DB with MYCS coordinates.

Will both solutions be available in OPUS-DB? Perhaps published at superseded? Yes, there will be a superseded functionality available.

IGLD 2010 GPS Project (Dennis)

Essentially done – constrained adjustments complete, and the vertical constrained adjustments will be completed shortly. Then in a few weeks, the project will be submitted for loading into NGS-IDB.

Texas Geoid Slope Validation Project (Shields/Doyle)

GPS observations are about to start. There will be a webpage online providing information about the project.

NGS is interested in gaining local knowledge from local TX surveyors of existing marks known to have good or bad published positions. Effort will be made to reach out to local chapter presidents.

Southern Louisiana Project (Shields)

Still in adjustment process – more complete update will be available in September.

CO-OPS (Landon/Riordan)

Three new water level stations are in Mobile, AL area for storm surge project. Two more to come in August/September. Processing of the level line down in the Mobile area is on hold; trying to finalize vertical adjustment of that level line. Goal is to get the horizontal in for inclusion in the National Adjustment of 2011. Those updated elevations will be tied into tidal datums.

New tide station in Barbuda in Caribbean.

2. NGS Outreach/Education

Survey Summit/ESRI User Conference was successful, well-attended by NGS. FGCS semi-annual meeting held in San Diego at same time.

Next big event from NGS is LiDAR workshop on August 18 in Silver Spring. Registration will be made available on the Corbin training site, and the morning will likely be broadcast via webinar. The following day will be a Height Mod partner meeting with NGS staff/management.

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

ID (Ruiz)

NGS advisor agreement moving forward. New agreement will be five years and cost will be split with MT.

4. Monthly presentation

Presentation, to start at approximately 2:30 PM:

Planning for the new Geometric and Geopotential Datums

Joe Evjen and Mark Eckl, National Geodetic Survey

Mr. Evjen and Mr. Eckl are the Project Managers for the new Geometric and Geopotential Datums, respectively. While the datums will not replace NAD83 and NAVD88 for a number of years, careful planning and preparation must occur to ensure a smooth transition for all users.

The presentations can be found at <http://www.fgdc.gov/participation/working-groups-subcommittees/fgcs/meetings/july-2011/fgcs-meeting-july-2011> They are powerpoint files titled “New Geometric Datum” and “New Geopotential Datum”

If you thought of any questions after the meeting, or were unable to attend but have questions after viewing the presentation, please contact Joe or Mark (Joe.Evjen@noaa.gov, Mark.Eckl@noaa.gov). The presentations are also available linked to the schedule at: <http://www.ngs.noaa.gov/heightmod/Presentations/HeightModMonthlyMeetingSchedule.pdf>

5. Other Business

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: Thursday, September 8, 2011; 2:00-3:30 East Coast Time

Note future meeting changes:

- **August 11 – cancelled for summer break**
- **September 8 – resume regular schedule of 2nd Thursday every month**

Recent Past Events

June 14-16, Gallup, NM – Leveling workshop

June 20-21, New Orleans, LA – GNSS Heights and Real Time national meeting

July 7-15, San Diego, CA – ACSM sponsors Survey Summit in conjunction with ESRI

July 11, San Diego, CA – FGCS semi-annual meeting

July 11-12, San Diego, CA – OPUS Projects Manager Training

July 17-21, Chicago, IL – Coastal Zone 2011

Upcoming Events

August 16 & 18, Webinar – Geodetic and Tidal Vertical Datums

August 18, Silver Spring, MD – Lidar Height Modernization workshop

August 19, Silver Spring, MD – National Height Modernization Partner meeting

September 26-30, Corbin, VA – Astronomic Azimuth Class (CLASS FULL)

October 25-27, Corbin, VA – Geodetic Leveling Class