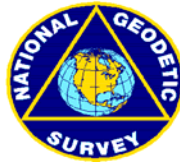


# Great Lakes Region Height Modernization Consortium Meeting



## What is Height Modernization?

*Height Modernization is a program in NOAA's National Geodetic Survey (NGS) that uses the Global Positioning System (GPS) and other new technologies to increase the accuracy of elevation measurements that comprise the vertical portion of the National Spatial Reference System (NSRS). This system provides the foundation for positioning and navigation activities in the United States. It is the reference base for latitude, longitude, height (elevation), and distance between points on the earth's surface including definition of the nation's shoreline.*

**Location:** U. S. Geological Survey  
215 Limekiln Road  
New Cumberland, PA 17070



## Wednesday, April 13, 2011

- 8:30-9:00am Registration (Coffee and snacks will be provided)
- 9:00-9:05am Welcome  
Brad Foltz, PennDOT
- 9:05-9:25am Implementation of PennDOT's CORS/Real-Time GPS Network  
Charles Harpster, PennDOT
- 9:25-10:30am NOAA's Height Modernization Overview and Update  
Renee Shields, NGS
- 10:30-10:45am Break
- 10:45-11:30am NOAA's Height Modernization Program: Getting Accurate Heights with GPS  
Renee Shields, NGS
- 11:30-12:00pm How the Height Mod Program Can Help Reduce Nutrient Loading in the Chesapeake Bay Watershed, Brian Macafee, PSU  
(Cost Savings Examples)
- 12:30-1:15pm OPUS and VRS for QA surveys of the PAMAP Program  
Eric Orndorff, MS, PLS, HRG, Inc.
- 1:15-1:45pm Comprehensive Evaluation of Project Datums (CEPD) Program –Pittsburgh District Reservoirs, Steve LeBlanc, Corp of Engineers
- 1:45-2:15pm NGS Vertical Datum Adjustments - Effects to DFIRM Maps  
Dan Fitzpatrick, FEMA - CANCELLED
- 2:15-2:30pm Break
- 2:30-3:30pm Vertical Datum Adjustments Effects to Stream Gauges  
James Kolva, USGS
- 3:30-4:30pm Overview of International Great Lakes Datum & GRAV-D Program  
David Conner, NGS