National Geodetic Survey - Positioning America for the Future



LiDAR and Height Modernization *Strategies and challenges tying LiDAR data to accurate vertical geodetic control*

NOAA Science Center 1301 East West Highway Silver Spring, MD 20910 August 18, 2011

Agenda

8:00 - 8:15	Welcome, opening remarks, objectives of workshop
	Ms. Juliana Blackwell, Director, NGS Ms. Renee Shields, Height Modernization Manager, NGS
8:15 - 9:00	LiDAR 101 - Introduction to LiDAR technology, its accuracy, importance of tying to geodetic control, and QA/QC
	Dr. Christopher Parrish, Remote Sensing Division Lead Physical Scientist, NGS
Strategies for tying to geodetic control and QA/QC procedures for specific applications:	
9:00 - 9:20	Accuracy requirement in coastal applications - sea level rise and shoreline
	Dr. Kirk Waters, Coastal Remote Sensing Program Manager, Coastal Services Center
9:20 - 9:50	Quality Control of LiDAR - elevation data used in floodplain mapping
	Mr. Gary Thompson, Director, North Carolina Geodetic Survey
9:50 - 10:20	Break
10:20 - 10:40	Control, Acquisition, and Post-processing of LiDAR Data for Corridor Work -utility and transportation
	Mr. Ken Sorrels, Land Surveyor, Tuck Mapping Solutions, Inc.
10:40 - 11:00	Green, Waveform LiDAR in Topo-Bathy Mapping
	Mr. Amar Nayegandhi, Project Manager, Jacobs Technology – US Geological Survey
11:00 - 11:45	National Enhanced Elevation Assessment (NEEA) - Introduction to NEEA effort, discussion of LiDAR applications and economic benefits
	Dr. David Maune, Senior Remote Sensing Project Manager, Dewberry Mr. Greg Snyder, Manager, LiDAR Program Development, US Geological Survey
11:45 - 12:00	Morning session wrap-up and overview of afternoon session
	Ms. Renee Shields, Height Modernization Manager, NGS

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12:00 – 1:30 Lunch (Lunch on own; list of nearby restaurants will be provided)

1:30 – 3:00 **Break-out Session:**

Participants will work in small groups to create a list of most important or most frequently encountered issues in acquiring or using LiDAR data. After reporting the problems out to the entire group, time will be spent to brainstorm solutions in a large group.

3:00 – 3:20 Break

3:20 – 4:30 **Panel Discussion:**

Opportunity for Participants to ask questions on issues that have been discussed throughout the day or that have not been addressed.

Panelists:

Mr. Dave Doyle, Chief Geodetic Surveyor, NGS Dr. David Maune, Senior Remote Sensing Project Manager, Dewberry Dr. Christopher Parrish, Remote Sensing Division Lead Physical Scientist, NGS Mr. Gary Thompson, Director, North Carolina Geodetic Survey

4:30 – 5:00 Wrap-up, finalize action items, and closing

Ms. Renee Shields, Height Modernization Manager, NGS