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NSRS Modernization News

For all issues of **NSRS Modernization News**, visit:
geodesy.noaa.gov/datums/newdatums/TrackOurProgress.shtml

Geospatial Summit

The National Geodetic Survey's 2017 Geospatial Summit was held at the end of April, and a significant portion of the summit was dedicated to our plans for the 2022 modernization of the NSRS. Titles of topics presented at the summit included: Replacing NAD 83, Replacing NAVD 88, Re-inventing Bluebooking, and Improving the NGS Toolkit. You can find information regarding the summit, including handouts, presentations, and other documentation at:

<https://www.ngs.noaa.gov/geospatial-summit/>

Blueprints

We have begun drafting papers under the title “**Blueprint for 2022**” to provide you with comprehensive technical information about how the NSRS will look and operate in 2022. Each part of the Blueprint will address portions of the modernized NSRS. **Part One**, released just prior to our Geospatial Summit, covers the **geometric coordinates**, including the new **terrestrial reference frames**.

Further expansions of the Blueprint are being drafted. **Part Two** will cover geopotential coordinates and the **North American-Pacific Geopotential Datum of 2022**. **Part Three** will cover **Re-inventing Bluebooking**. We are not yet certain whether other parts will follow.

New Projects

We continue to initiate new projects to be completed prior to 2022 as part of the rollout of the modernized NSRS. Details on our four latest projects are outlined below.

Geoid Monitoring Service

Project Manager: Dr. Theresa Damiani

The Geoid Monitoring Service project will build the time-dependent component of GEOID2022, using a combination of satellite data and terrestrial tracking stations.

OPUS-Projects for Leveling

Project Manager: Dr. Daniel Gillins

Dr. Gillins is leading a multi-year effort to build a functioning version of OPUS Projects for geodetic leveling.

OPUS Projects for Everything

Project Manager: Krishna Tadepalli

The OPUS Projects for Everything project will build a framework to tie all OPUS Projects components together. The first two will be GPS and leveling, but the framework will allow for OPUS Projects expansion, so new survey types such as gravity, traverse, and RTK/RTN may be added. Additionally, the project will improve the user interface.

State Plane Coordinates for 2022

Project Manager: Michael Dennis

The State Plane Coordinates (SPC) for 2022 project will seek feedback from each state and territory regarding the status of the current SPC (for NAD 83) and will then design the new system for the TRFs in 2022.

GRAV-D progress last quarter: **up 1.2% to 59.6%**

Ahead of Schedule!

Recently: North Carolina, Texas, Alaska

