

Surveying, Mapping and Geosciences Sub-committee

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Agenda

- CORS Status - **Giovanni Sella and Francine Coloma** - NOAA-NGS
 - CORS GNSS GPS+GLONASS data is now distributed 50% of network
- OPUS Updates and Future Geometric Datum - **Joe Evjen** - NOAA-NGS
 - OPUS-projects released – allows Network adjustment.
 - New vertical and horizontal reference frame to replace NAVD88 and NAD83(2011/PA11/MA11) target date is 2022 . Geocentric frame.
- The eGPS RTN History and Lessons Learned - **Lonnie Sears** - eGPS
 - Upgrades/improvements are a constant reality and cost requiring innovation and hands on learning that allow for successful commercial service
- Florida Permanent Reference Network (FPRN): State of the Network - **Ron Hanson** - Florida Department of Transportation
 - Major investment by the state to upgrade and expand their GNSS VRS network is almost complete

Agenda (contd)

- Gulf Coast Subsidence and Greenland Melting: The Role of Satellite Geodesy in Sea Level Rise Studies - **Tim Dixon** – U. of South Florida
 - Continuous GPS sites measure land motion component which is often larger than sea level change that is essential to understand impact of flooding.
- Earthquake cycle in Nicoya peninsula Costa Rica - **Nich Voss** - University of South Florida
 - Continuous GPS sites capture the full earthquake cycle of 7.6 M of 2012 Eq. The unique position of the peninsula over the trench has implications for the Cascadia subduction zone (WA/BC).
- NRCANs' Precise Point Positioning (PPP) Service - **Ken MacLeod** – NRCAN
 - Accurate free post-processing ,GPS within 90min, GPS+GLONASS within 3 hrs. Requires a global network of sites, but few regional sites. Very effective for very large areas (CANADA!) with irregular user density.

GPS vs GPS+GLONASS

