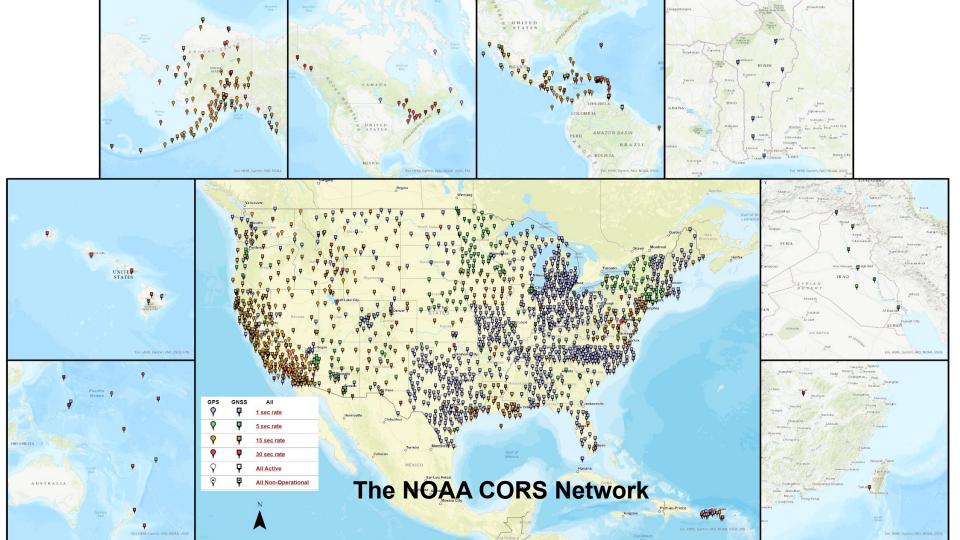
Priority Topics for the NOAA CORS Network

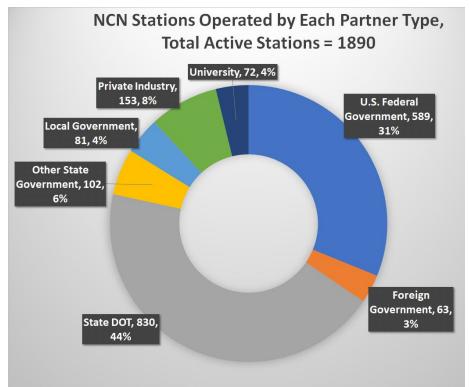
Dr. Theresa Damiani
Chief of the Spatial Reference System Division
(DOC-NOAA-National Geodetic Survey)



Using the NCN to Meet National Needs

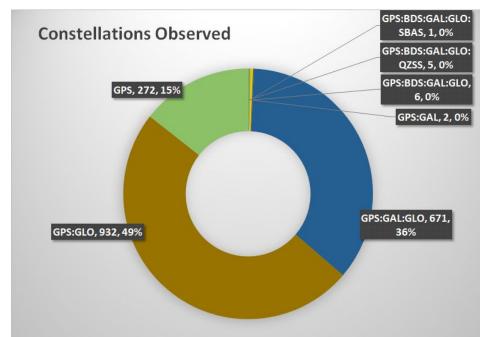
- Draft (in internal review) of strategic plan for expanded civil national support via the NOAA
 CORS Network via partners' continuous GPS/GNSS ground stations
- Geospatial Data Act, reaffirms NGS' role in creating the reference frame for use by federal agencies in all civil applications- positioning, navigation, mapping, remote sensing, etc.
- Ensuring use of the International Reference Frame as the basis for the NSRS' U.S. terrestrial reference frames
 - Foundation CORS
 - Supporting the UN's Global Geodetic Reference Frame (GGRF)
- New alignment service to allow NSRS coordinates to be assigned to any CORS
- Expanding GNSS observations- "All in the sky"
- New guidelines on installing and maintaining CORS participating in the NCN to support longevity and quality of data

Part of NGS' Mission: Enable partners to support adoption of the NSRS for use in national-level geospatial, surveying, transportation, commerce, and science.



Establishing an alignment service would allow NGS to provide NSRS coordinates to (potentially) thousands more GPS/GNSS stations in the U.S.

This opens up NCN/NSRS use to national applications in transportation such as autonomous vehicles



GNSS Constellations currently observed by NCN stations include the U.S.' Global Positioning Service (GPS), Russia's GLONASS (GLO), E.U.'s Galileo (GAL), China's BeiDou (BDS), Japan's Quasi-Zenith Satellite System (QZSS), as well as limited Satellite Based Augmentation Systems (SBAS).

NCN Guidelines will encourage "All-in-the-sky" observation for positioning resilience

Foundation CORS Update New Station Reconnanance Completed International Earth Rotation & Reference System (IERS) survey -VLBA Hancock, FY22 Q3-4 New FCORS Installation - FY22 Q4 (awarded FY21) VLBI NASA Goddard MD (IERS survey) IIJA potential funding Horn Point Fan Mountain Observatory, VA Site Reconnaissance at Very Long NGS Woodford, VA Baseline Array (VLBA) Kitt Peak, AZ VLBA Pie Town, NM (includes IERS redon) VLBA Apache Point, NM VLBA Kitt Peak, AZ VLBA Fort Davis, TX (includes IERS regen) VLBI Fairbanks, AK Guam DORIS Cold Bay, AK DROGRAPHIC SERVICES REVIEW PANEL