

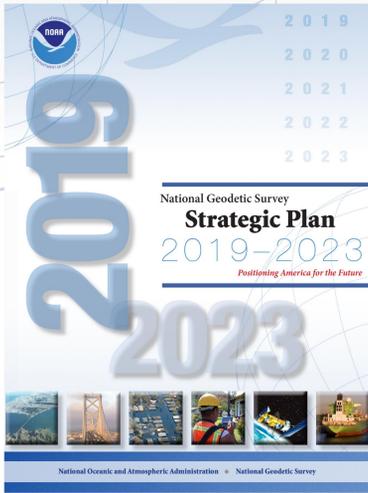


The National Geodetic Survey 2019-2023 Strategic Plan: Aligning Mission with Vision ... and Your Geo-Data

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Download the Plan here:
<https://geodesy.noaa.gov/web/about/ngs/info/mission-strategic-planning.shtml>

Mission:
 To define, maintain, and provide access to the National Spatial Reference System to meet our nation's economic, social, and environmental needs.

Vision:
 Everyone accurately knows where they are and where other things are at all times and in all places!

GIS data layers, stacked to illustrate the role of the foundational layer – the National Spatial Reference System – in providing the spatial reference for aligning geographic data from disparate sources, allowing it to be combined and analyzed within a common positional framework – both 2-D and 3-D, as needed.

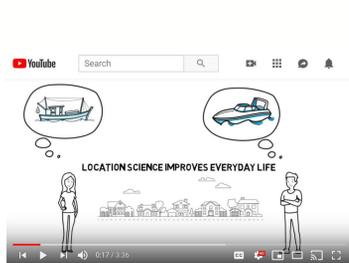
Introduction

The **mission and vision** of NOAA's National Geodetic Survey (NGS) (see left) are the guiding institutional dictums that galvanize the effort to evolve and promote the United States' **National Spatial Reference System (NSRS)**. NSRS is the nationwide framework of latitude, longitude, elevation, and related geodetic/geophysical models and tools that collectively comprise the foundational positioning infrastructure (see graphic at left) for all civilian geospatial activities, including GIS, surveying, and myriad geo-scientific applications. NGS periodically advances **strategic plans** to prioritize efforts and initiatives to further the utility and value of the NSRS. **NGS Strategic Plan: 2019-2023** was recently (March 2019) released, providing a road map of goals, objectives, and strategies to help guide the next five years of agency trajectory, culminating in the 2022 (anticipated) delivery of a modernized NSRS, including new terrestrial reference frames and a geopotential/vertical datum, replacing the North American Datum of 1983 (NAD83) and the North American Vertical Datum of 1988 (NAVD88).

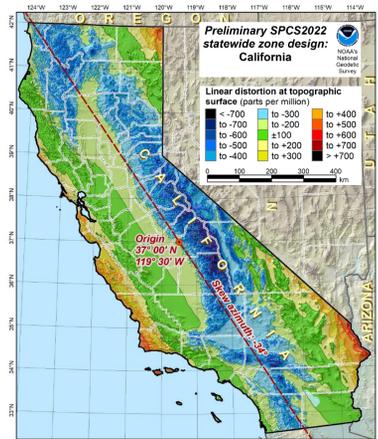
This new positioning paradigm will better leverage the utility of modern geodetic and geophysical knowledge, technologies, and data – notably **Global Navigation Satellite Systems (GNSS)** and comprehensive **gravity field modeling** – and **it will impact most United States geospatial practitioners**. The enhanced accuracy and access of the modernized NSRS will support efficient and accurate spatial alignment and analysis of all types of geographic data. Outlined here are the Plan's goals and objectives along with illustrations of several crucial initiatives – both technical and institutional – which will further both the evolution and usage of the modernized NSRS and will help manifest the vision that "Everyone accurately knows where they are and where other things are at all times and in all places!"

2019-2023 Strategic Plan: Five Goals and Their Objectives

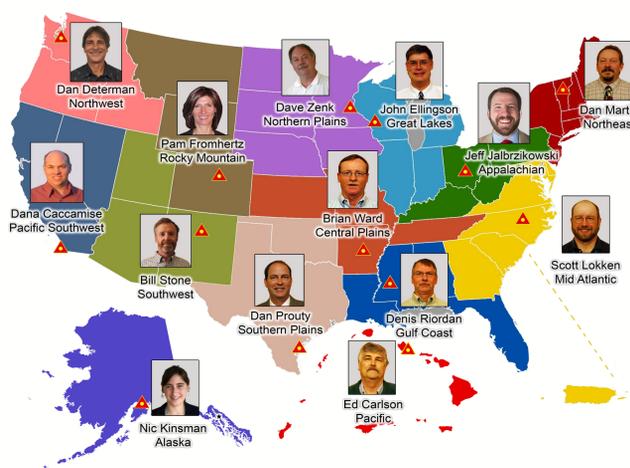
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|---|---|---|---|--|
| <p>1. Support NSRS Users</p> <ul style="list-style-type: none"> • Bluebooking, Datasheets • Coastal Mapping • Airport Surveys • Field Operations • Online Tools | <p>2. Modernize, Improve NSRS</p> <ul style="list-style-type: none"> • Replace NAD83 • Replace NAVD88 • Re-invent Bluebooking • Repair the Toolkit • Better Surveying | <p>3. Expand Stakeholder Base</p> <ul style="list-style-type: none"> • Align RTNs • Stakeholder Engagement, Web • University Engagement • Regional Outreach • Educational Portfolio • Integrated Ocean-Coastal Mapping | <p>4. Develop, Enable Workforce</p> <ul style="list-style-type: none"> • Educated Workforce • Recruitment and Retention • Institutional Knowledge | <p>5. Improve Administrative Functionality</p> <ul style="list-style-type: none"> • Information Technology Support • Socio-Economic Awareness • Records Management • Facilities |
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A library of 12 brief videos on geodesy, surveying, and positioning topics expands the NGS educational portfolio (Goal 3).



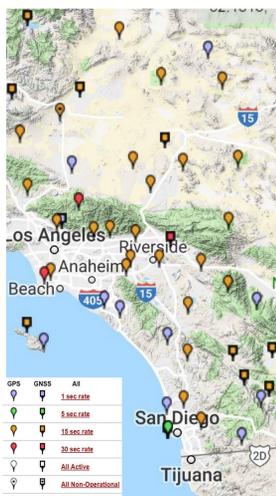
Preliminary State Plane Coordinate System of 2022 California statewide zone design (Goal 2).



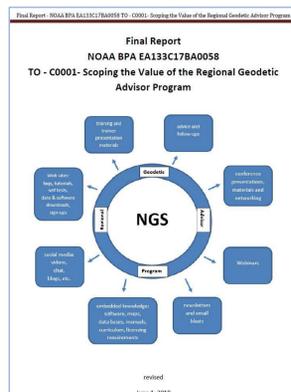
NGS Regional Geodetic Advisors, performing nationwide geodetic outreach, education, and stakeholder support (Goals 3 and 4).



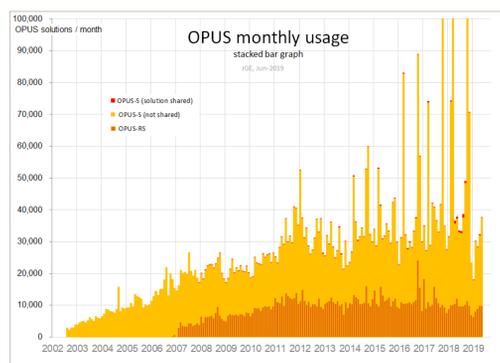
Anticipated change in horizontal coordinates: NAD 83 epoch 2010.0 to Terrestrial Reference Frames of 2022 epoch 2020.0 (Goal 2).



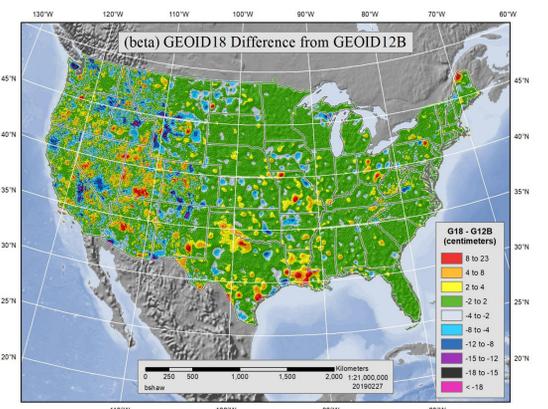
NGS GNSS Continuously Operating Reference Station Network in Southern California (Goals 1-3).



2018 report scoping the value of the Regional Geodetic Advisor Program (Goal 5).



Monthly usage since inception of the Online Positioning User Service (Goal 1).



Difference between GEOID18 (beta) and GEOID12B geoid models (Goal 2).

Learn More about the National Geodetic Survey and the Modernization of the National Spatial Reference System and download the 2019-2023 NGS Strategic Plan, here:
<https://geodesy.noaa.gov/>