



# National Geodetic Survey

Positioning America for the Future

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## Delayed Release of the Modernized NSRS

NOAA's National Geodetic Survey (NGS) is announcing a delay in the release of the modernized National Spatial Reference System (NSRS).

In 2007, NGS began planning for the modernized NSRS, acquiring its first airborne gravimeter, creating and initiating the Gravity for the Redefinition of the American Vertical Datum (GRAV-D) project and by 2008 had codified its modernization plans into a Ten Year Plan. At that time, the target completion date was 2018. By 2013, that date seemed unlikely, due to both the broadening of the GRAV-D coverage area and the experience of five years of operational planning and execution.

In 2013, NGS revised its 2008 Plan, and targeted 2022 as the date of the release of the modernized NSRS. This date was reinforced with a 2018 Strategic Plan revision. By 2017, confidence in hitting the 2022 target was high enough to reach final agreement with Canada and Mexico on a naming convention for certain components, to include "2022" in their names.

Since 2017, operational, workforce, and other issues have arisen and compounded, causing NGS to recently re-evaluate whether a successful roll-out by 2022 is possible. The most significant impacts have been in workforce hiring and retention, and in meeting GRAV-D data collection milestones, which underpin the NSRS modernization efforts.

NGS is currently conducting a comprehensive analysis of ongoing projects, programs, and resources required to complete NSRS modernization and will continue to provide regular updates on our progress. To get the latest news on NSRS modernization and track our progress, subscribe to [NGS News](#) or visit our ["New Datums" web pages](#).

Further details, and more answers are available on this [FAQ](#)

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## North Carolina Emergency Management



# 2022 North Carolina State Plane Coordinate System

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- Submitted to the National Geodetic Survey
- Accepted by the National Geodetic Survey

Hi Gary,

Thank you for submitting a request form for a statewide SPCS2022 zone layer for North Carolina. This email serves as official acknowledgment that the request was received.

As requested in the form, NGS will set the central meridian to 281° E (79° W, the same as used for SPCS 83 and 27). The false northing and easting will be set to 200,000 and 1,000,000 meters, respectively, with the false northing assigned at the intersection of the central meridian and central parallel. In the preliminary design by NGS, the central parallel is 35°15' N with a scale of 0.99995, as shown in the distortion map available at <http://www.ngs.noaa.gov/pub/SPCS/DistortionMaps/>. Because that design is preliminary, there is a slight chance that the central parallel and/or its scale will change when the design is finalized. However, if that occurs the changes will be very small.

Also as requested, NGS will provide a pair of simple equations to perform an approximate transformation between SPCS2022 and SPCS 83 coordinates, to allow continued use of existing SPCS 83-based North Carolina parcel Identification Numbers (PINs) with SPCS2022 coordinates. A set of equations associated with the preliminary design has already been provided. Those equations will be re-evaluated, and they will be updated if there is any change to the SPCS2022 zone parameters.

Please feel free to contact me (or [NGS.SPCS@noaa.gov](mailto:NGS.SPCS@noaa.gov)) if you have any questions or comments.

Cheers,

Michael

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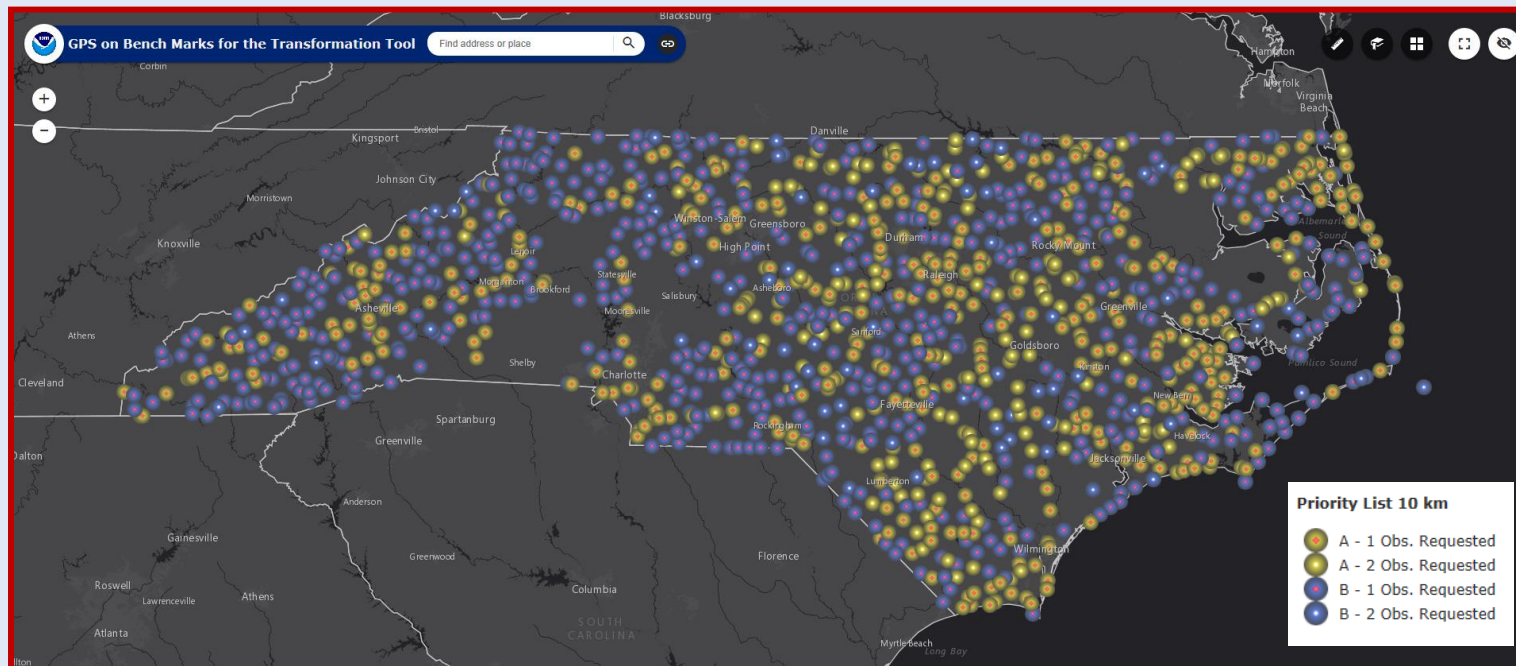


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# National Geodetic Survey GPS on Bench Marks 2020/2021

- 2020
  - NGS has prepared a list of geodetic monuments that we review for possible GNSS data collection



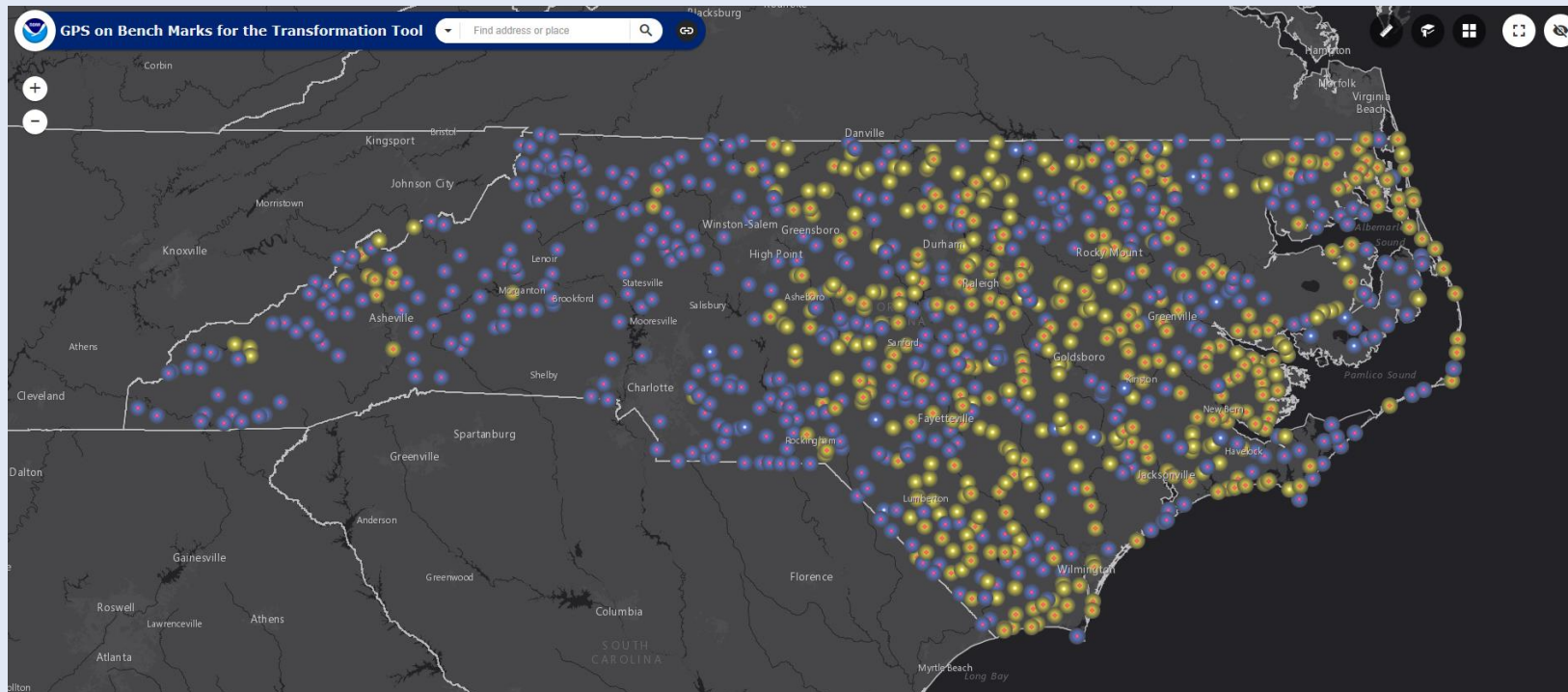
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# National Geodetic Survey

## GPS on Bench Marks 2020/2021

- 2020 (status as of 6/15/2020)
  - NGS has prepared a list of geodetic monuments that we review for possible GNSS data collection



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# Gravity Data Collection

- New gravity marks established (relative and absolute)
  - One hundred and twenty (120) in western North Carolina (relative)
  - Partnered with NGS to establish eleven (11) new absolute gravity stations in western North Carolina (NC)
    - Observations completed in western NC on 11/14/19
- Working with NGA to take part in the gravity meter loan program



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# US Survey/International Foot

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- GSAC on record supporting International Foot
- SMAC voted to support International Foot
- GICC voted to support International Foot



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