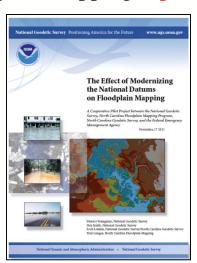
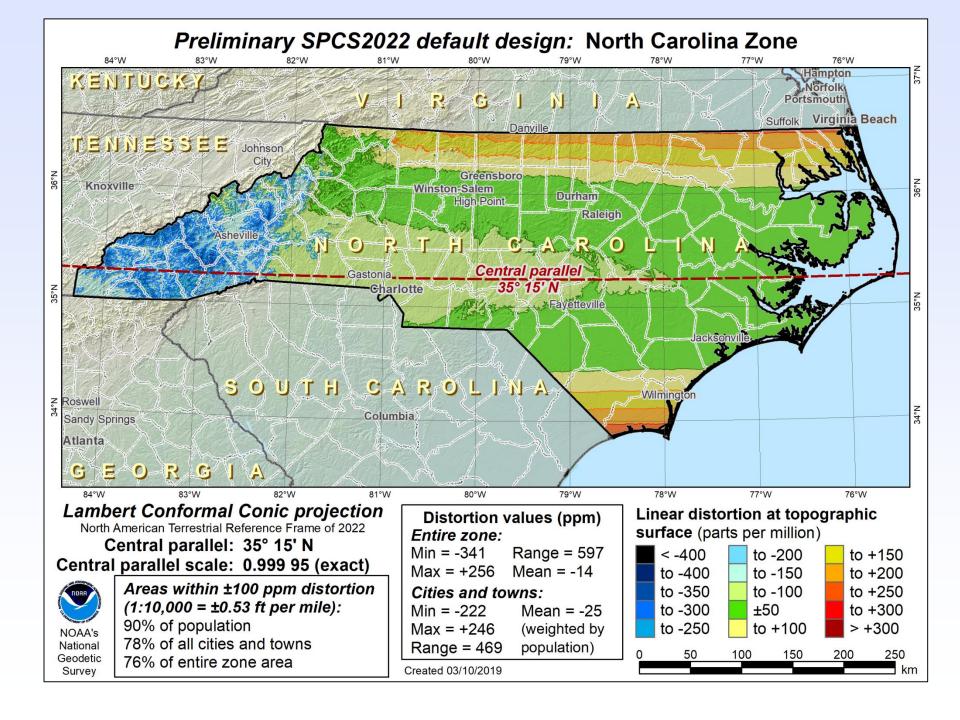
New Datums are Coming in 2022

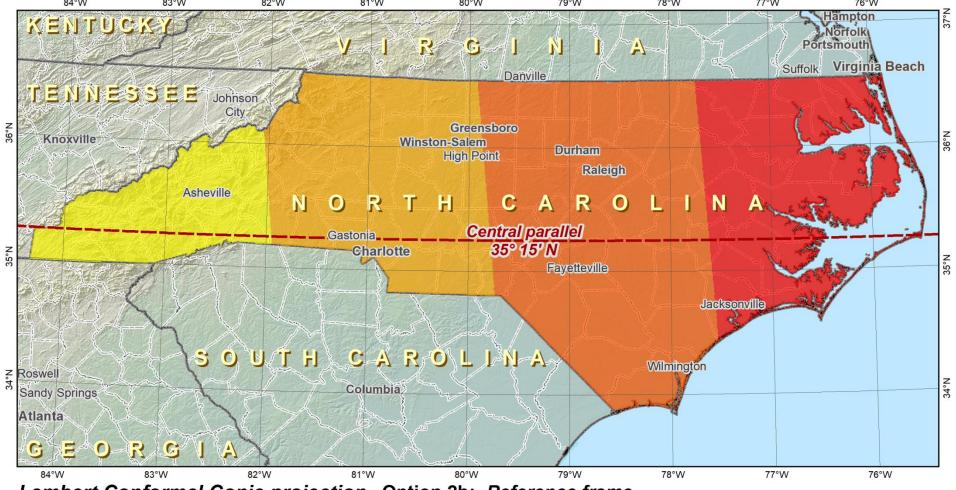
- Developing 2022 datum issue papers
 - Engineering
 - Surveying /
 - Construction
 - Agriculture (in progress)
 - Imagery/elevation
 - Land records (in progress)
 - Floodplain mapping (updated study)







Horizontal change in SPCS2022 coordinates for North Carolina (option 2b)



Lambert Conformal Conic projection

North American Terrestrial Reference Frame of 2022

Central parallel: 35° 15' N

Central parallel scale: 0.999 95 (exact)



Geodetic

Survey

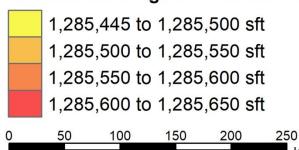
Areas within ± 100 ppm distortion (1:10,000 = ± 0.53 ft per mile):

90% of population

78% of all cities and towns 76% of entire zone area

Option 2b: Reference frame plus parameter change:
False northing = 200,000 m
False easting = 1,000,000 m
(same central meridian as SPCS 83)

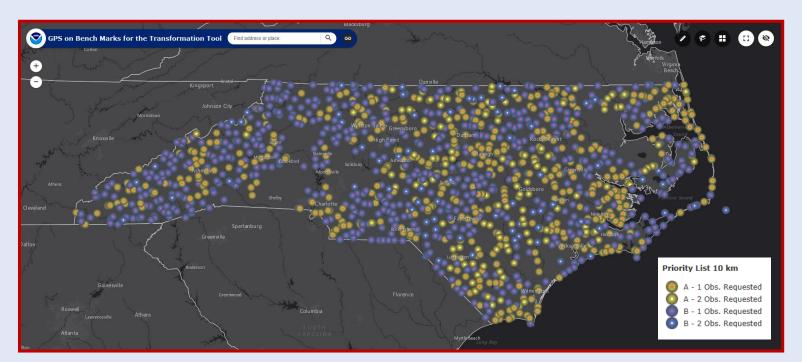
Horizontal change in coordinates



National Geodetic Survey GPS on Bench Marks 2018/2019

2019

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









New Datums are Coming in 2022

Our preparations to date include:

- Created a 2022 Datum Working Group to develop implementation recommendations ✓
- Working with SC Geodetic Survey, SC, NC, and VA Department's of Transportation to develop common implementation plans ✓
- Working with the National Geodetic Survey to complete GRAV-D in North Carolina
 - Collecting terrestrial gravity data ✓
 - Collection of airborne gravity data completed ✓
- Partnering with UNCC to purchase an absolute gravity meters ✓
- Obtaining ellipsoidal heights on NAVD88 bench marks ✓
- Collecting statewide LiDAR elevation data (USGS QL1 and QL2) ✓
- Created 2022 Datum web page ✓
- Education outreach√
- National Geodetic Survey GPS on Bench Marks project ✓
- Met with NGS in March in Silver Springs to discuss the NCSPCS 2022 ✓







In progress = ✓