



FPRN News

December 17, 2019

Hybrid Geoid

The NGS released a statement regarding Geoid18. The statement explains that the Geoid 18 file, released in September, contained errors. Due to the errors we are releasing a revised Geoid model. The new Geoid will be named Geoid 18B. The revised Geoid files are hosted on the FPRN Home Page <https://www.fdot.gov/geospatial/fprn.shtm>

This will be the last release of a hybrid Geoid model before moving to the North American-Pacific Geopotential Datum of 2022.

Coordinate Updates

The National Geodetic Survey (NGS) has reprocessed the Continuously Operating Reference Stations (CORS) to be in alignment with the International Terrestrial Reference Frame (ITRF) 2014 instead of International GNSS Service (IGS 08). As part of our goal to stay in alignment with the NGS we will be adjusting the coordinates of the Florida Permanent Reference Network (FPRN) every six months.

The adjustment will take place on January 6, 2020. Along with the **new broadcast coordinates** for each of the reference stations within the FPRN, we have produced a Datasheet for each station that shows the current broadcast coordinates, the ITRF 2014 coordinates, and any superceded coordinates dating back to August, 2014. A link to the datasheets can be found on our Home Page <https://www.fdot.gov/geospatial/fprn.shtm>

ITRF 2014

The NGS's proposed changes to our Geodetic Datums in 2022 will have a great impact on precise positioning systems. On January 6, 2020, we will start broadcasting a secondary set of corrections. These corrections will be in alignment with the ITRF 2014 datum.

This secondary datum will allow academic and governmental agencies to start updating the coordinates in their local databases. This secondary datum may also become useful for projects that will extend past the National Spatial Reference System (NSRS) 2022 implementation date.

FPRN Datasheets

Some scrivener errors have been found in the superceded coordinates for a few of the stations within the FPRN. These errors have been corrected and the data sheets republished. Thank you to all that have brought these errors to our attention.