FPRN News

January 5, 2017

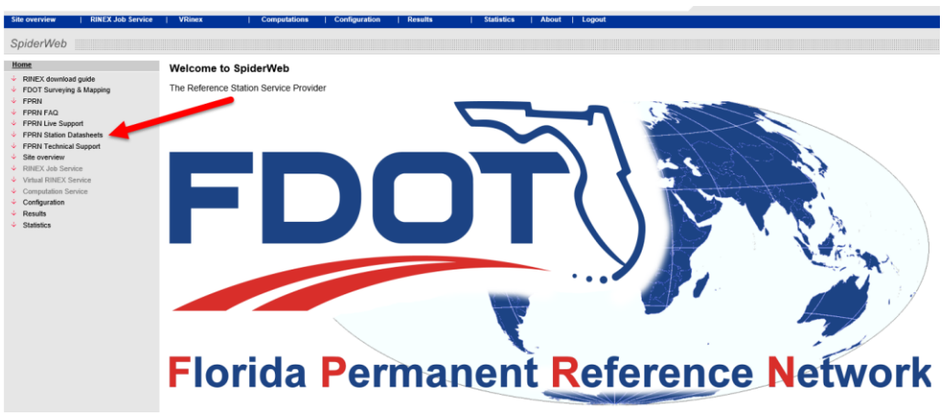
New Products

Data Sheets

We now offer Data sheets for each of the FPRN Reference Stations.

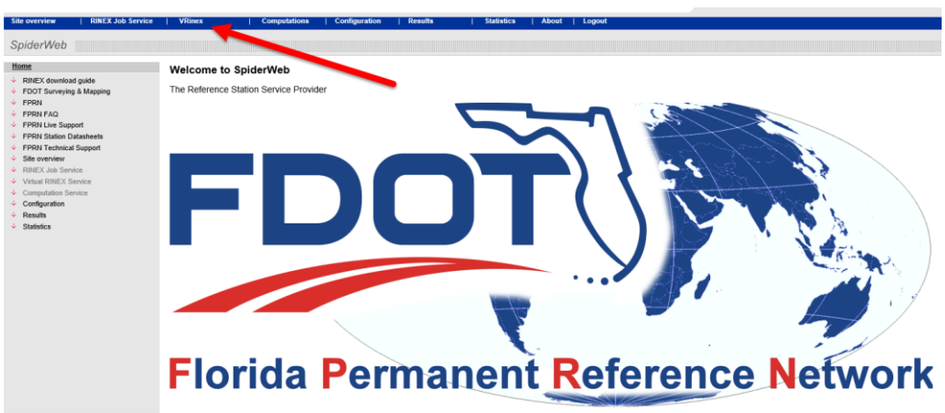
http://www.fdot.gov/geospatial/FPRNDatasheets.shtm

(See sample Data Sheet on next page)



Virtual Rinex

The Virtual Rinex option is now available.



Network Upgrades

We survived the planned network upgrades in December. These upgrades increased network stability and accounted for the leap second.

Network Solutions

When using port 10000 to receive corrections you must turn on your NMEA (GGA) message string, and it must be set to broadcast at a rate of less than 30 seconds.

Constellations

Also, on June 29th, 2016 we started monitoring the Galileo satellite Constellation. Hopefully in the next couple of months these satellites will be included in the real-time corrections.

FPRN Datasheet

Site Name	Brooksville	
Site Code	BKVL	
Receiver Type	LEICA GR10	
Serial Number	1701781	
Firmware	4.02	
Antenna Type	LEIAR20	NONE
Serial Number	16268012	
Satellite Systems	G/R/E/-/-	

Florida Permanent Reference Network

NAVD 88 Orthometric Height*

Geoid 12B	Geoid Model	FPRNGD16B
70.08 sFT		70.11 sFT
21.361 M		21.371 M

NAD 83 (2011) epoch 2010.000

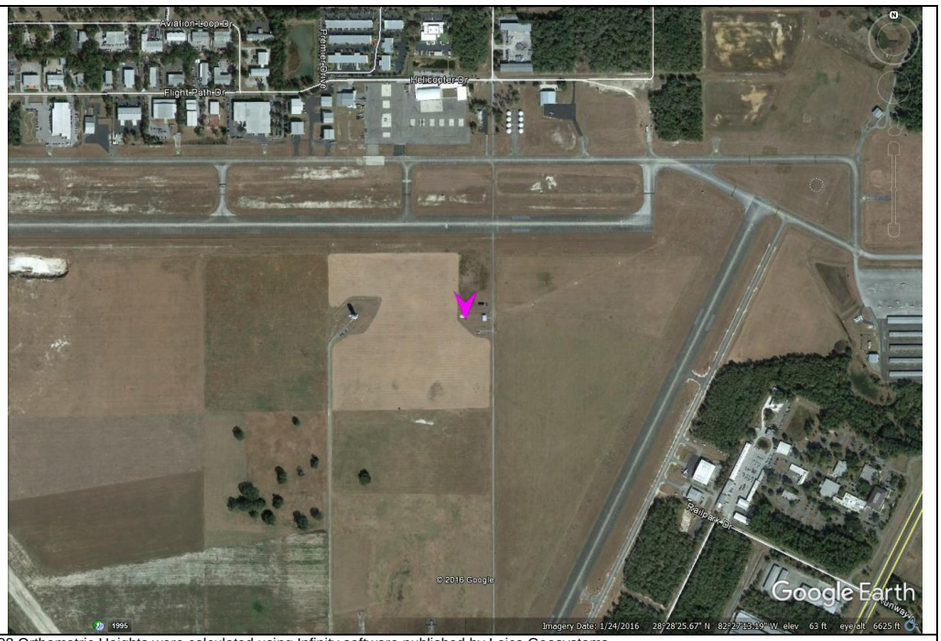
Geodetic Position	
Latitude	28° 28' 25.66888" N
Longitude	82° 27' 13.19392" W
Ellipsoid	-5.026 M
Geocentric Position**	
X 2,417,529.15015 sFT	X 736,864.35870 M
Y -18,248,904.79509 sFT	Y -5,562,277.30610 M
Z 9,917,178.33816 sFT	Z 3,022,762.00299 M

State Plane Coordinates**	
State Plane Zone FL W	
N 1,505,238.05860 sFT	N 458,797.47786 M
E 510,418.01926 sFT	E 155,575.72342 M
UTM Position**	
UTM Zone 17	
N 9,574,071.60913 sFT	N 2,918,182.86283 M
E 1,931,875.23416 sFT	E 588,836.74904 M

NAD 83 (2011) epoch 2017.000

Geodetic Position***	
Latitude	28° 28' 25.66871" N
Longitude	82° 27' 13.19350" W
Ellipsoid	-5.031 M
Geocentric Position**	
X 2,417,529.18718 sFT	X 736,864.36998 M
Y -18,248,904.78370 sFT	Y -5,562,277.30263 M
Z 9,917,178.31560 sFT	Z 3,022,761.99612 M

State Plane Coordinates**	
State Plane Zone FL W	
N 1,505,238.04170 sFT	N 458,797.47270 M
E 510,418.05740 sFT	E 155,575.73505 M
UTM Position**	
UTM Zone 17	
N 10,336,429.04425 sFT	N 10,336,429.04425 M
E 1,173,533.22680 sFT	E 357,693.64292 M



* NAVD 88 Orthometric Heights were calculated using Infinity software published by Leica Geosystems.
** Geocentric Positions, State Plane Coordinates, and UTM Positions were calculated using Infinity software published by Leica Geosystems.
*** NAD 83 (2011) epoch 2017.000 Geodetic Positions were calculated using Horizontal Time Dependent Positioning (HTDP) software published by National Geodetic Survey (NGS).