



FPRN News

October 26, 2016

New Products

L5

On June 29th, 2016 we started recording the L5 signal. Rinex files are now available with this new signal.

Beginning November 1, 2016 the FPRN will include the L5 data in the real-time corrections.

(See new product charts on next page)

(Only RTCM-3 MSM4 and RTCM-3 MSM5 Products will carry L5 data)

Virtual Rinex

We now have the ability to create Virtual Rinex files. Hopefully this service will be available in the next couple of weeks.

Network Upgrades

We survived the planned network upgrades in July and August. These upgrades will increase network stability and we anticipate less downtime in the future.

Other than adding the Virtual Rinex component we do not have any future planned network upgrades.

Hurricane Hermine

The FPRN remained fully operational during the crossing of Hurricane Hermine. The network only suffered the loss of one station due to weather. The FLEM station had a loss of power due to a flood damaged uninterrupted power supply.

Hurricane Matthew

Again, the FPRN weathered Hurricane Matthew in expected fashion with only two stations going offline. The TTVL station suffered a modem failure (probably due to a lightning strike) and the SBST station lost power and needed a hard reboot.

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 by the end of the year these satellites will be included in the real-time corrections.

NTRIP PROTOCOL

IP 204.90.21.205

AUTOMATIC NEAREST

LANGUAGE	PORT	MOUNTPPOINT / DATA SOURCE
RTCM-3 MSM4	10000	MSM4_NEAR
RTCM-3 MSM5	10000	MSM5_NEAR
RTCM-3.1	10000	RTCM3_NEAR
RTCM-2.3	10000	RTCM2_NEAR
CMR PLUS	10000	CMRP_NEAR

NTRIP PROTOCOL

IP 204.90.21.205

SINGLE BASELINE

LANGUAGE	DISTRICT	PORT
RTCM-3 MSM4	STATE-WIDE	40000
	DISTRICT 1	40100
	DISTRICT 2	40200
	DISTRICT 3	40300
	DISTRICT 4	40400
	DISTRICT 5	40500
	DISTRICT 6	40600
	DISTRICT 7	40700
RTCM-3 MSM5	STATE-WIDE	50000
	DISTRICT 1	50100
	DISTRICT 2	50200
	DISTRICT 3	50300
	DISTRICT 4	50400
	DISTRICT 5	50500
	DISTRICT 6	50600
	DISTRICT 7	50700
RTCM 3.1	STATE-WIDE	31000
	DISTRICT 1	31100
	DISTRICT 2	31200
	DISTRICT 3	31300
	DISTRICT 4	31400
	DISTRICT 5	31500
	DISTRICT 6	31600
	DISTRICT 7	31700
RTCM 2.3	STATE-WIDE	23000
	DISTRICT 1	23100
	DISTRICT 2	23200
	DISTRICT 3	23300
	DISTRICT 4	23400
	DISTRICT 5	23500
	DISTRICT 6	23600
	DISTRICT 7	23700
CMR PLUS	STATE-WIDE	25000
	DISTRICT 1	25100
	DISTRICT 2	25200
	DISTRICT 3	25300
	DISTRICT 4	25400
	DISTRICT 5	25500
	DISTRICT 6	25600
	DISTRICT 7	25700

TCP/IP PROTOCOL

IP 204.90.21.205

AUTOMATIC NEAREST

LANGUAGE	PORT	MOUNTPOINT / DATA SOURCE
RTCM-3 MSM4	11015	MSM4_NEAR
RTCM-3 MSM5	11016	MSM5_NEAR
RTCM-3.1	11007	RTCM3_NEAR
RTCM-2.3	11008	RTCM2_NEAR
CMR PLUS	11009	CMRP_NEAR

NTRIP PROTOCOL

IP 204.90.21.205 PORT 10000

NETWORK SOLUTIONS

NETWORK SOLUTION TYPE	MOUNTPOINT / DATA SOURCE
MAX	RTCM3_MAX
VRS	MSM4_VRS
	MSM5_VRS
	RTCM3_VRS
	RTCM2_VRS
	CMRP_VRS
CMR PLUS	MSM4_IMAX
	MSM5_IMAX
	RTCM3_IMAX
	RTCM2_IMAX
	CMRP_IMAX

TCP/IP PROTOCOL

IP 204.90.21.205

AUTOMATIC NEAREST

NETWORK SOLUTION TYPE	PORT	LANGUAGE
VRS	11013	RTCM-3 MSM4
	11014	RTCM-3 MSM5
	11003	RTCM 3.1
	11004	RTCM 2.3
	11005	CMR PLUS
iMAX	11011	RTCM-3 MSM4
	11012	RTCM-3 MSM5
	11001	RTCM 3.1
	11002	RTCM 2.3
	11003	CMR PLUS
FKP	11006	RTCM 2.3