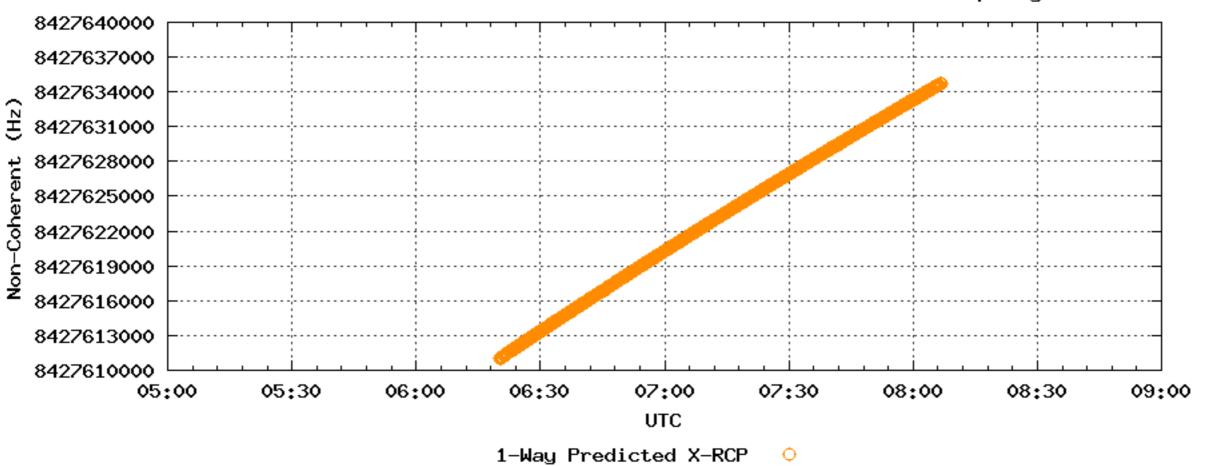
Spacecraft: Cassini

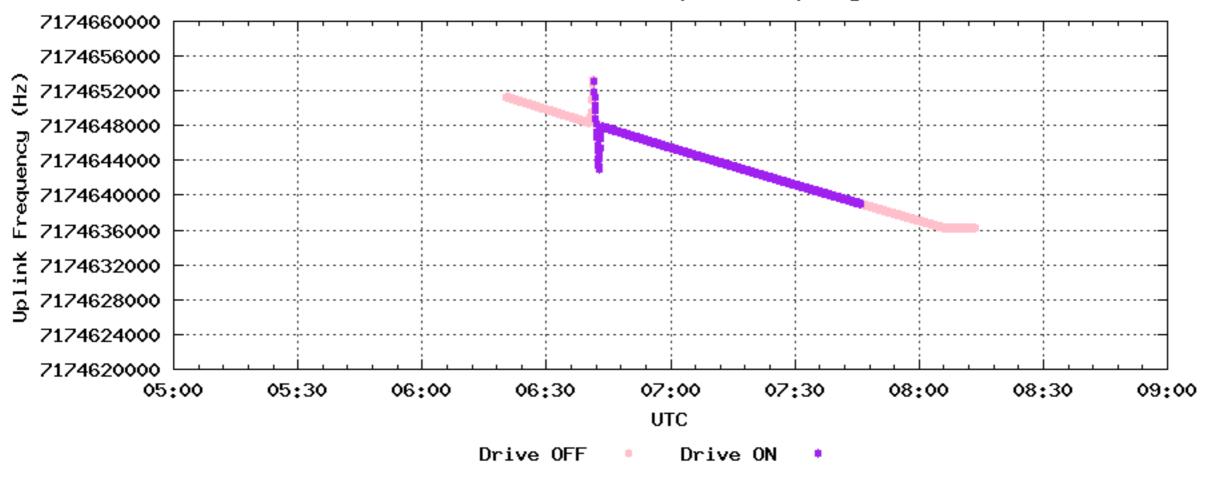
DSS: 63

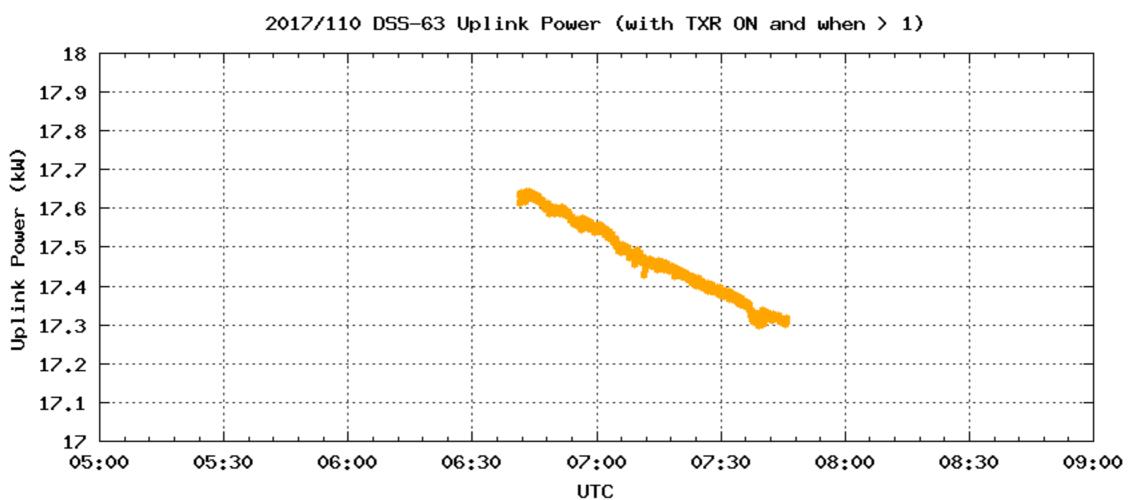
Monitor File: S99SROI2017_110_0520_63_MON.ecsv APPLICABLE_START_TIME = 2017-110T05:20:09.455; APPLICABLE_STOP_TIME = 2017-110T08:18:37.770; 60 minutes omitted from beginning of file 5 minutes omitted from end of file

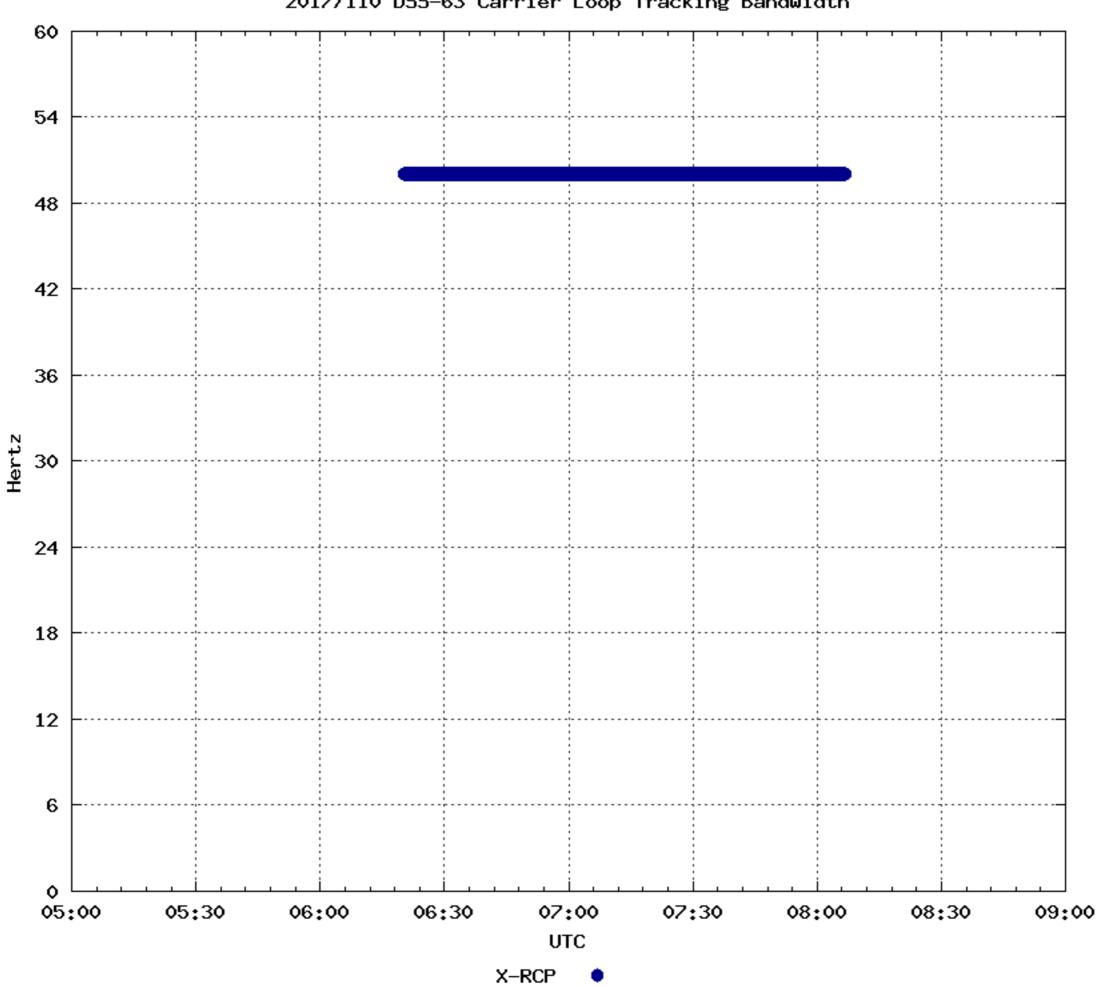
- 02. X-Band Measured Carrier Frequency, Predicted Carrier Frequency, and Residual Frequency
- 03. Uplink Frequency and Power
- 04. Carrier Loop Tracking Bandwidth
- 05. Subreflector Tracking Status
- 06. AGC Voltage
- 07. Azimuth & Elevation
- 08. Weather: Air Temperature, Dew Point Temperature, Relative Humidity, Precipitation Rate, and Barometric Pressure
- 09. Wind Speed and Direction
- 10. Conscan Drive Status
- 11. Azimuth & Elevation Residuals
- 12. Index

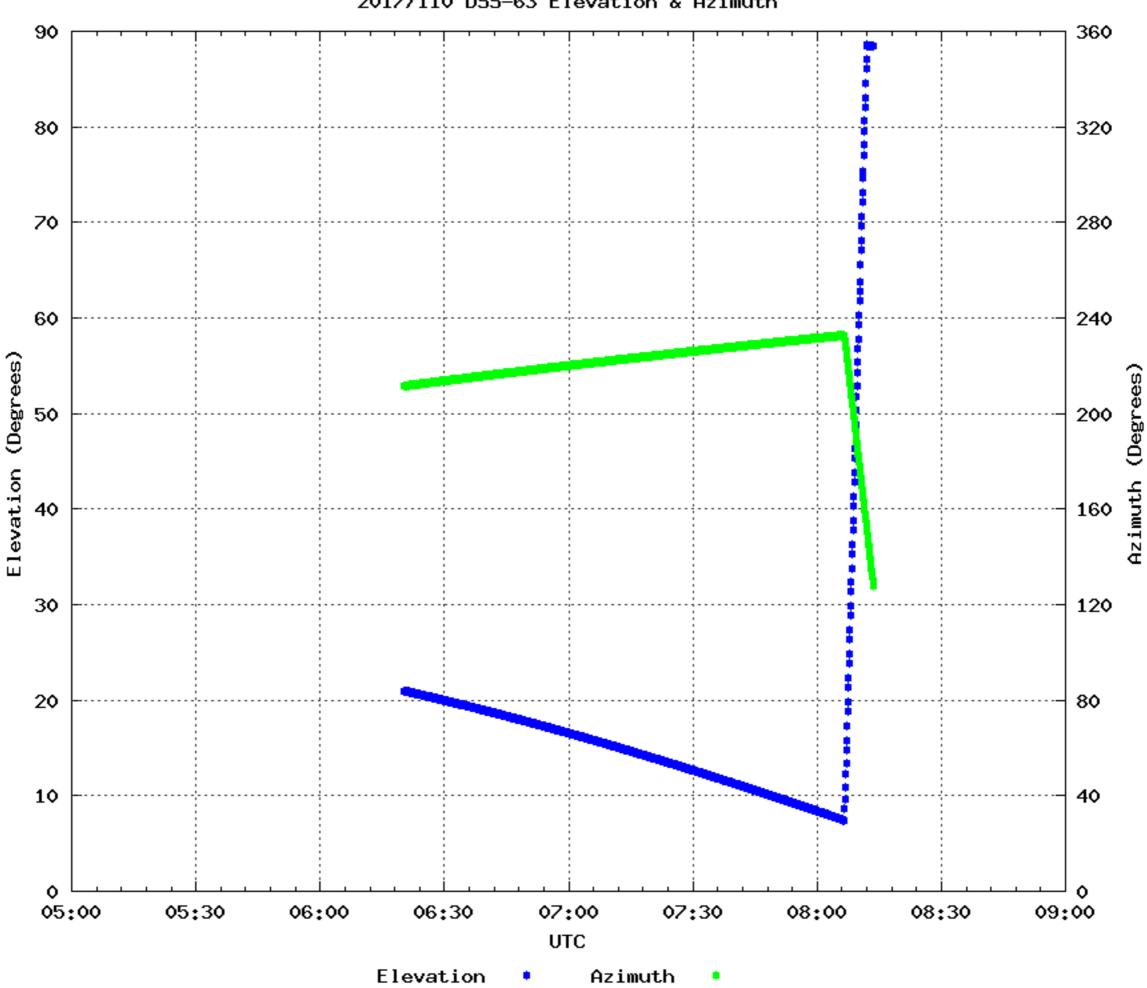
2017/110 DSS-63 X-Band Measured and Predicted Carrier Frequency

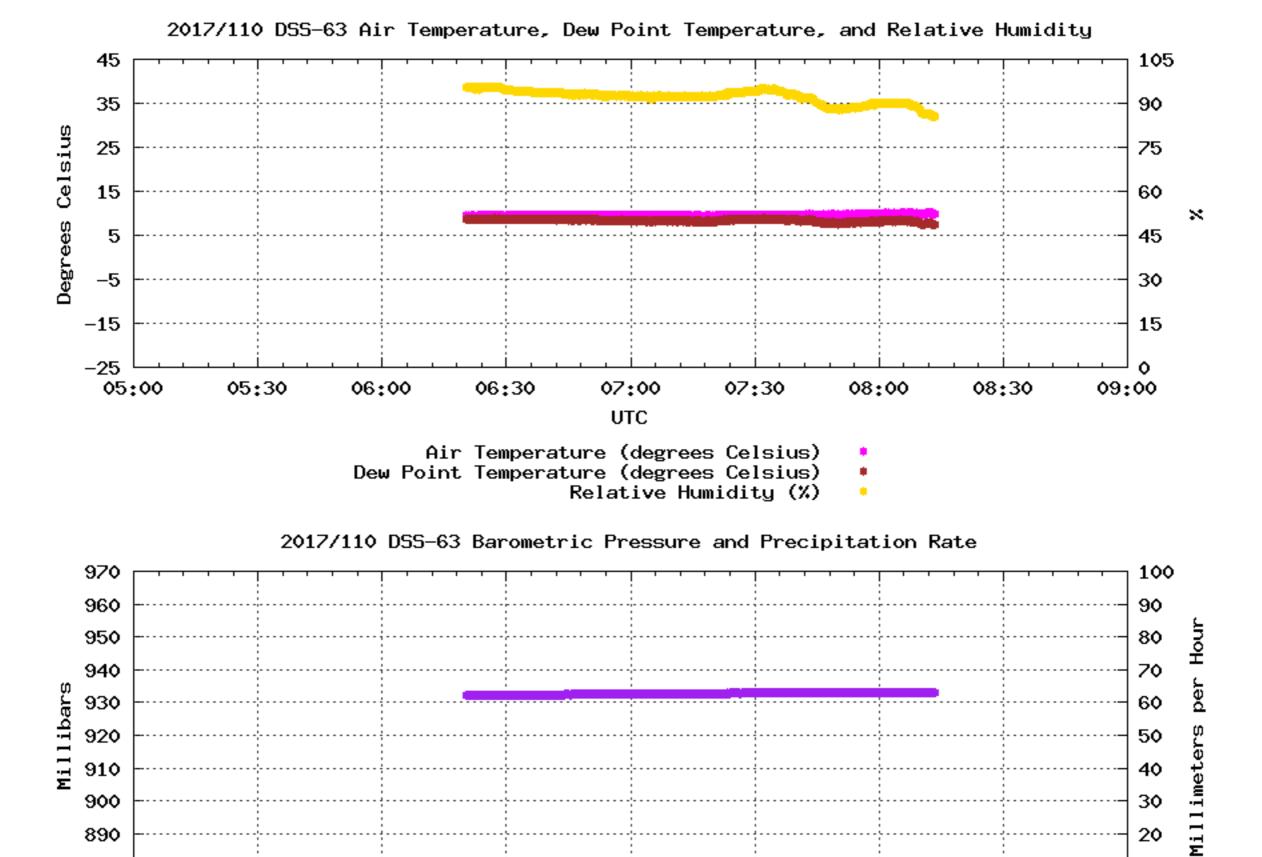












Barometric Pressure (Millibars) • Precipitation Rate (Millimeters per Hour) •

07:00

UTC

07:30

08:00

08:30

06:30

10

09:00

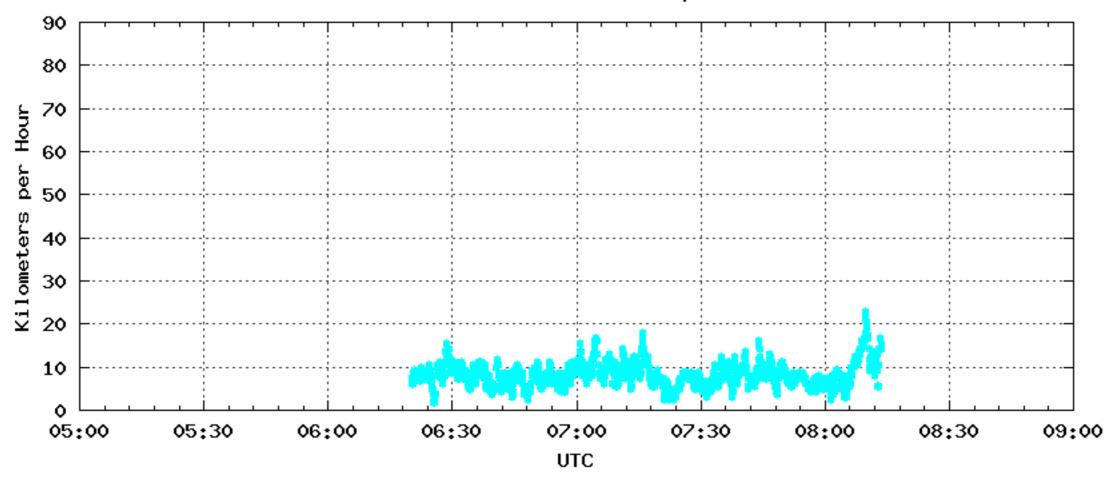
880

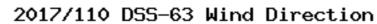
870

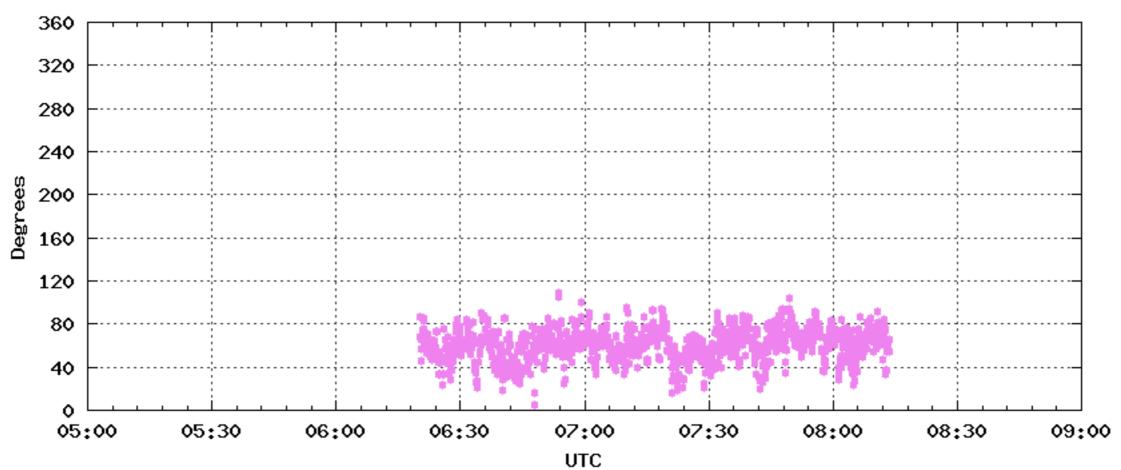
05:00

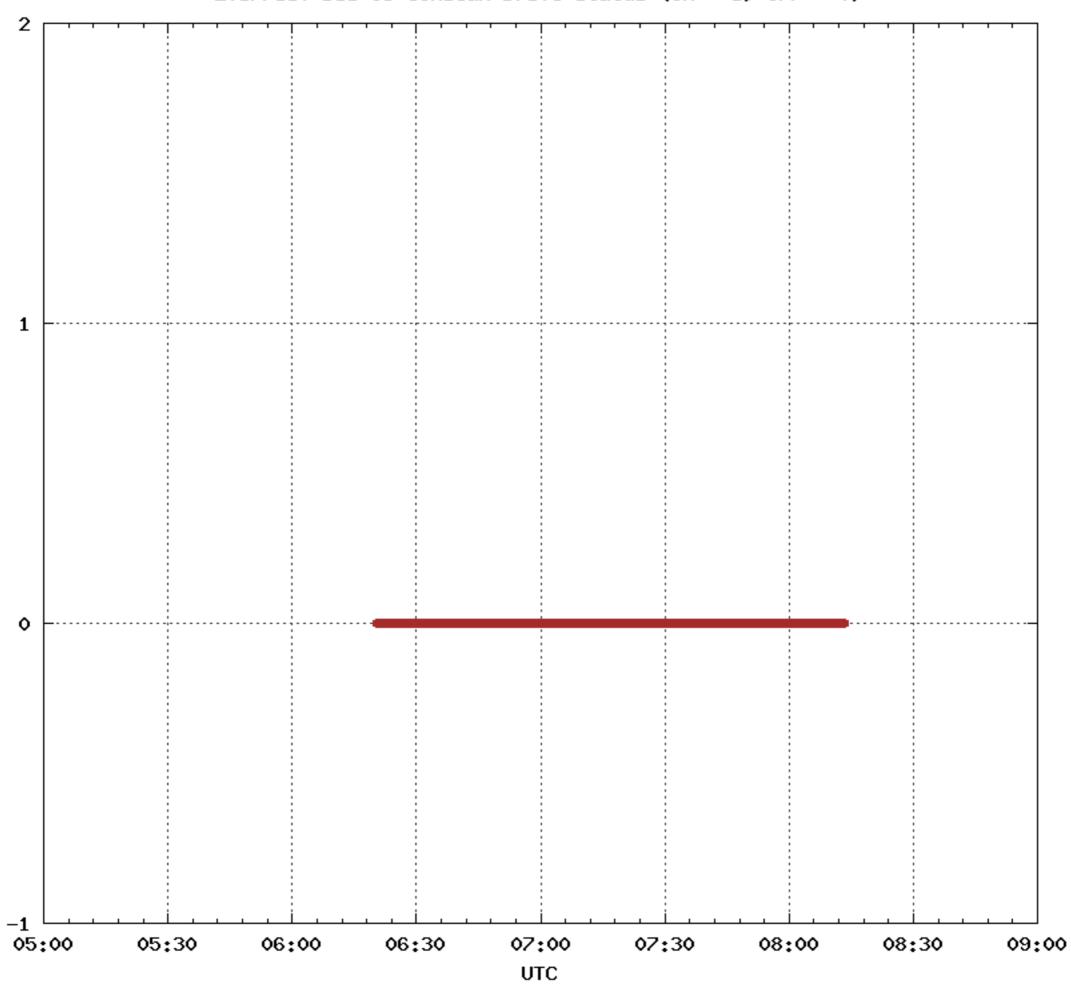
05:30

06:00









02. X-Band - Measured Carrier Frequency, Predicted Carrier Frequency, and Residual Frequency

Top:

Predicted Frequency including Doppler Shift (M-1320, M-1820, M-2320, M-2820) categorized by Predicts Mode (M-1248, M-1748, M-2248, M-2748) and by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

Measured Carrier Frequency (M-1304, M-1804, M-2304, M-2804) filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802) categorized by Predicts Mode (M-1248, M-1748, M-2248, M-2748) and by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

Bottom:

Residual Frequency (M-1305, M-1805, M-2305, M-2805)
filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802)
categorized by Predicts Mode (M-1248, M-1748, M-2248, M-2748)
and by Downlink Band (M-1245, M-1745, M-2245, M-2745)
and Polarization (M-1267, M-1767, M-2267, M-2767)

03. Uplink Frequency and Power

Top:

Uplink Frequency (M-1049)
 filtered by Transmitter Status (M-1070)

Bottom:

Uplink Power (M-1067) filtered by Transmitter Status (M-1070)

04. Carrier Loop Tracking Bandwidth

Carrier Loop Tracking Bandwidth (M-1299, M-1799, M-2299, M-2799) categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

05. Subreflector Tracking Status

Subreflector Tracking Status (M-0317)

06. AGC Voltage

AGC Voltage (M-1325, M-1825, M-2325, M-2825) categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

07. Azimuth & Elevation Elevation Angle (M-0304) Azimuth Angle (M-0305)

08. Weather: Air Temperature, Dew Point Temperature, Relative Humidity,

Precipitation Rate, and Barometric Pressure

Top:

Air Temperature (M-0394) Dew Point (M-0397) Relative Humidity (M-0409)

Bottom:

Barometric Pressure (M-0400) Precipitation Rate (M-0406)

09. Wind Speed and Direction

Top:

Wind Speed (M-0388)

Bottom:

Wind Direction (M-0391)

10. Conscan Drive Status

Conscan Drive Status (M-0308)

11. Azimuth & Elevation Residuals

Elevation Residuals (M-0307) Azimuth Residuals (M-0306)