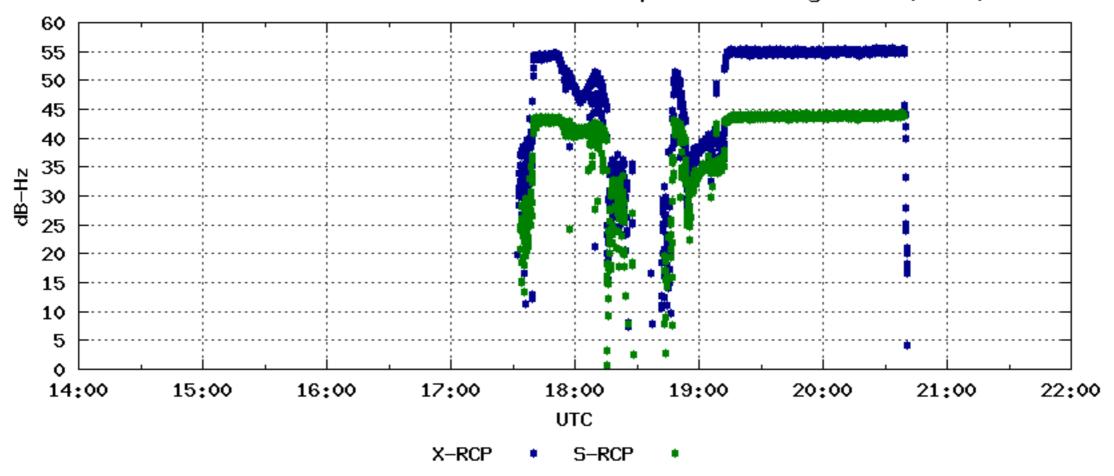
Spacecraft: Cassini

DSS: 14

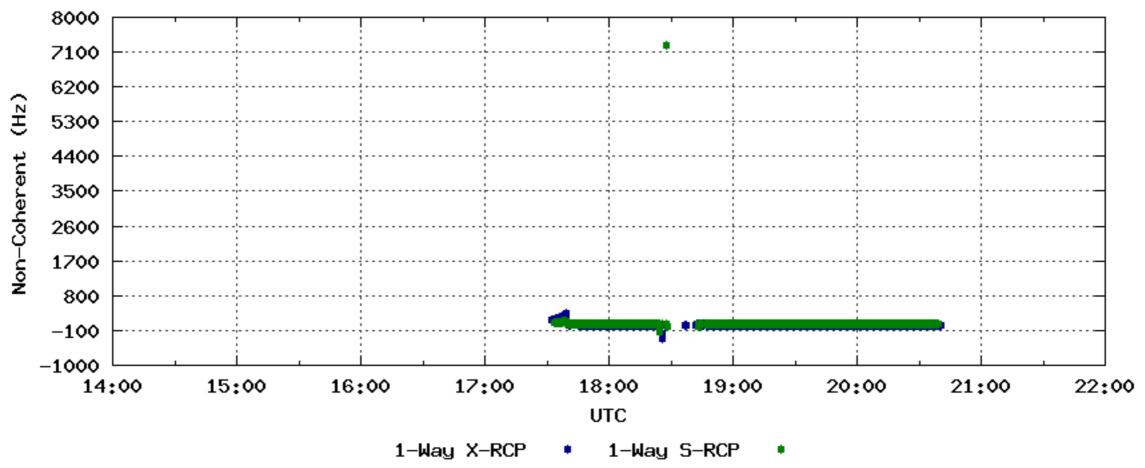
Monitor File: S11SROE2005_159_1433_14_MON.ecsv APPLICABLE_START_TIME = 2005-159T14:33:24.215; APPLICABLE_STOP_TIME = 2005-159T21:00:18.887; 60 minutes omitted from beginning of file 5 minutes omitted from end of file

- 02. Carrier Power to Noise Spectral Density Ratio (Pc/No) and Residual Frequency
- 03. X-Band Measured Carrier Frequency, Predicted Carrier Frequency, and Residual Frequency
- 04. S-Band Measured Carrier Frequency, Predicted Carrier Frequency, and Residual Frequency
- 05. Carrier Power to Noise Spectral Density Ratio (Pc/No) and Carrier Power
- 06. Carrier Power to Noise Spectral Density Ratio (Pc/No) and System Noise Temperature
- 07. Carrier Loop Tracking Bandwidth
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- 11. Wind Speed and Direction
- 12. Conscan Drive Status
- 13. Azimuth & Elevation Residuals
- 14. System Noise Temperature, Elevation, Precipitation Rate, and Relative Humidity
- 15. Index

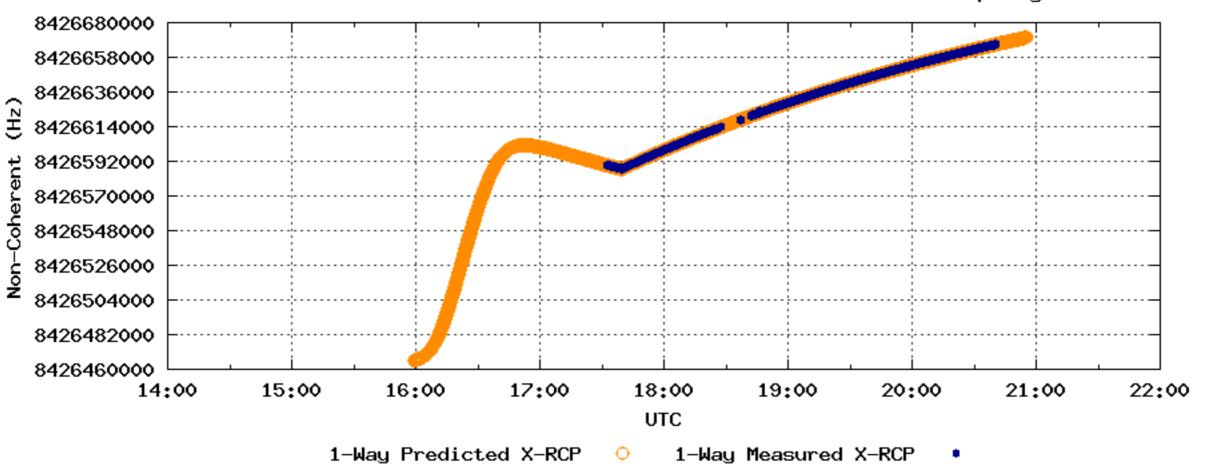
2005/159 DSS-14 Carrier Power to Noise Spectral Density Ratio (Pc/No)

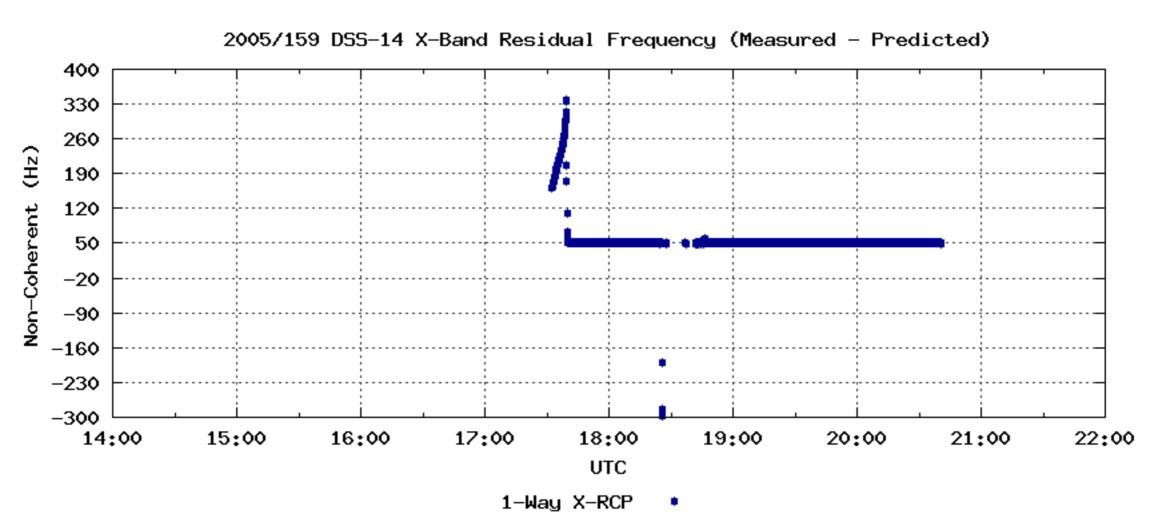


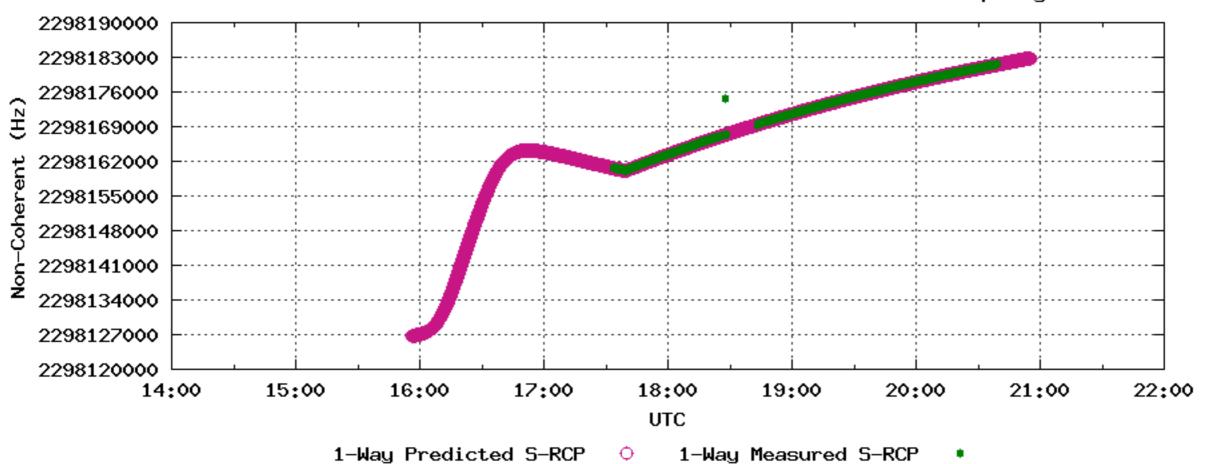
2005/159 DSS-14 Carrier Frequency Residual (Measured - Predicted)



2005/159 DSS-14 X-Band Measured and Predicted Carrier Frequency

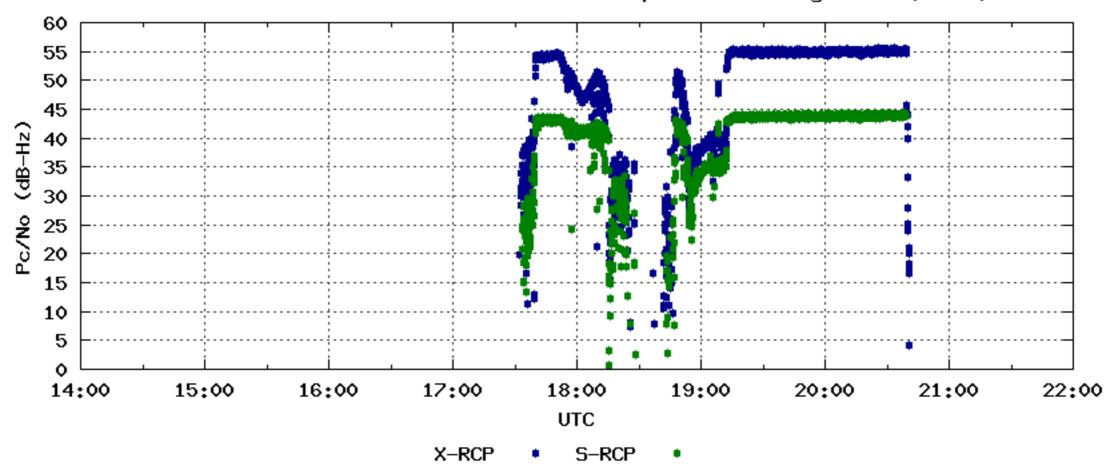




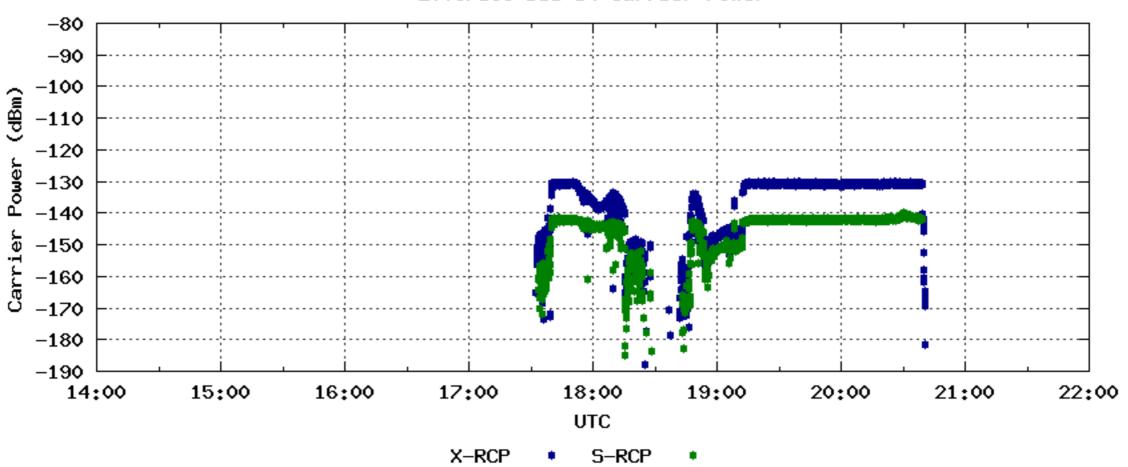


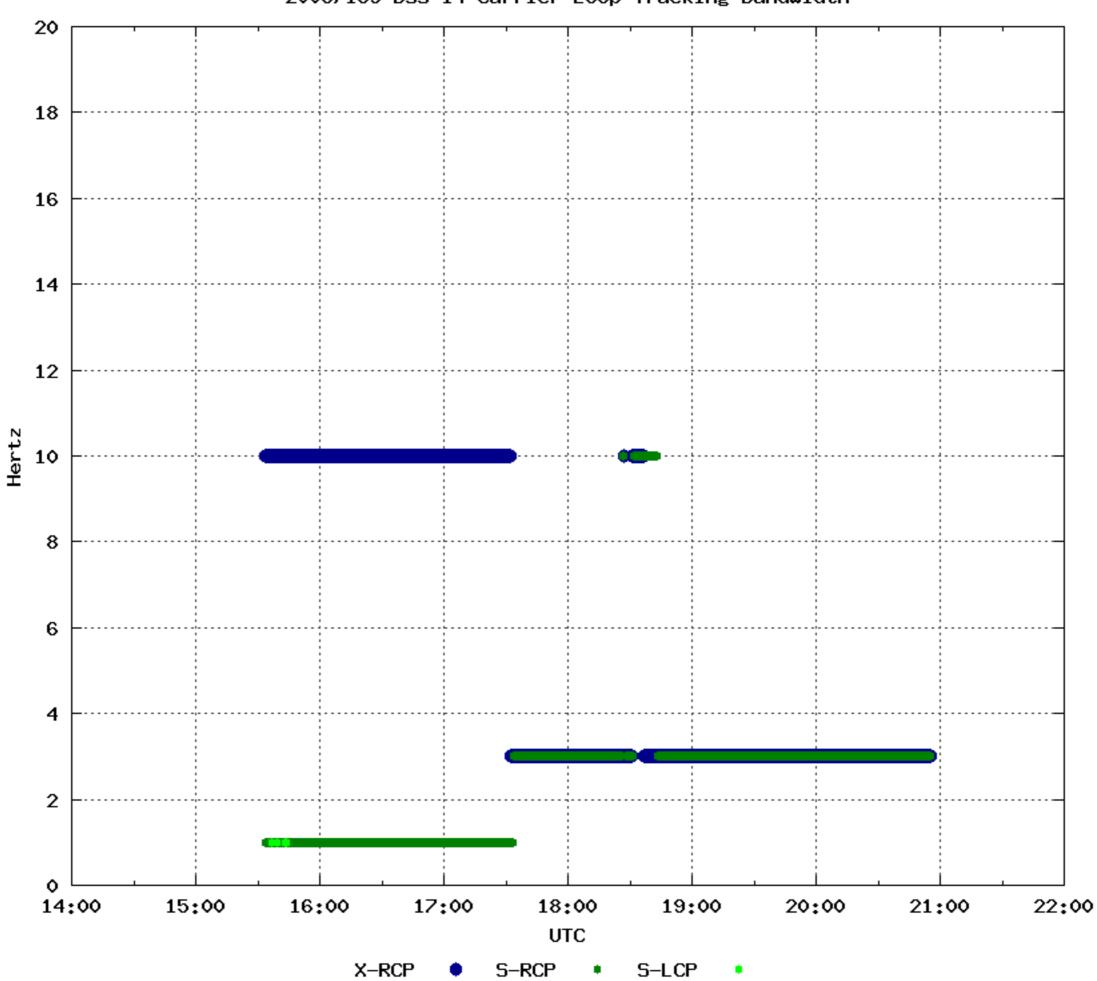
2005/159 DSS-14 S-Band Residual Frequency (Measured - Predicted) 7300 6550 5800 (Hz) 5050 4300 Non-Coherent 3550 2800 2050 1300 550 -200 15:00 16:00 17:00 18:00 19:00 21:00 14:00 20:00 22:00 UTC 1-Way S-RCP

2005/159 DSS-14 Carrier Power to Noise Spectral Density Ratio (Pc/No)

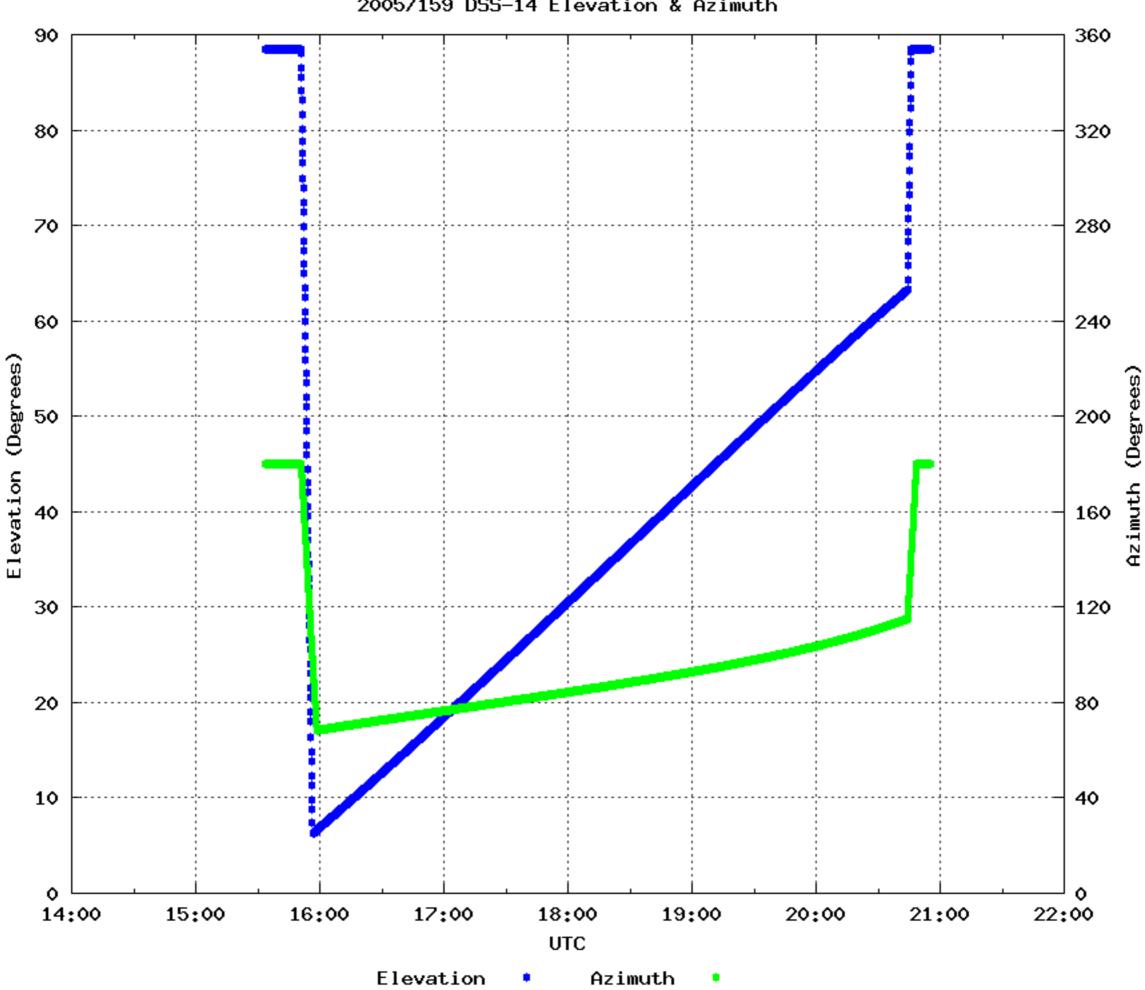


2005/159 DSS-14 Carrier Power

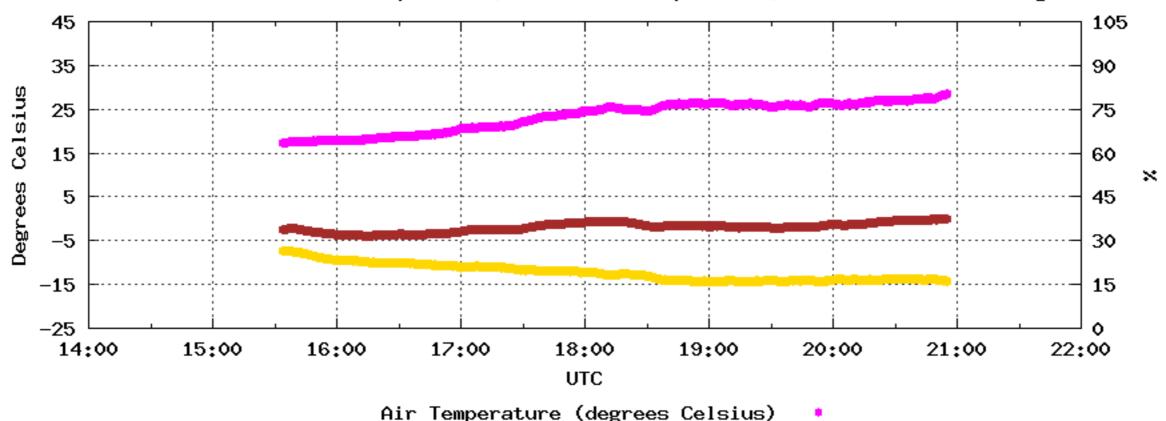




UTC



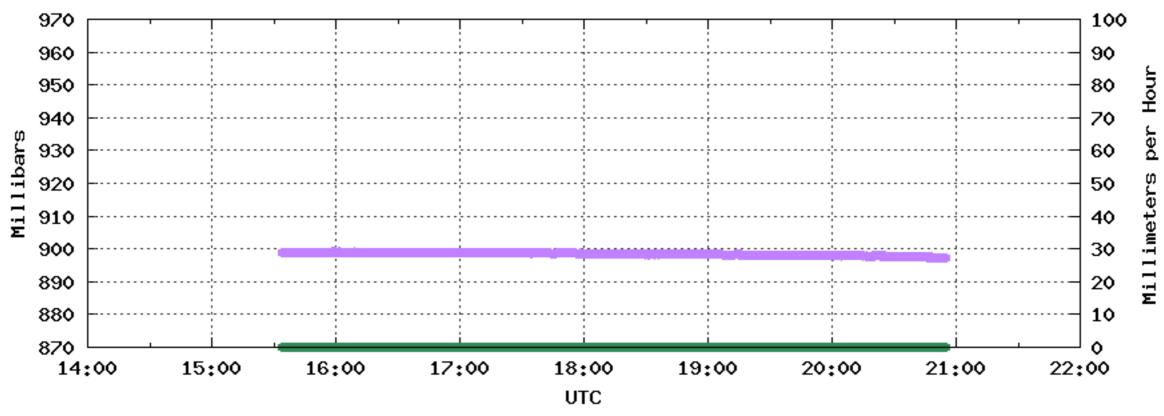
2005/159 DSS-14 Air Temperature, Dew Point Temperature, and Relative Humidity



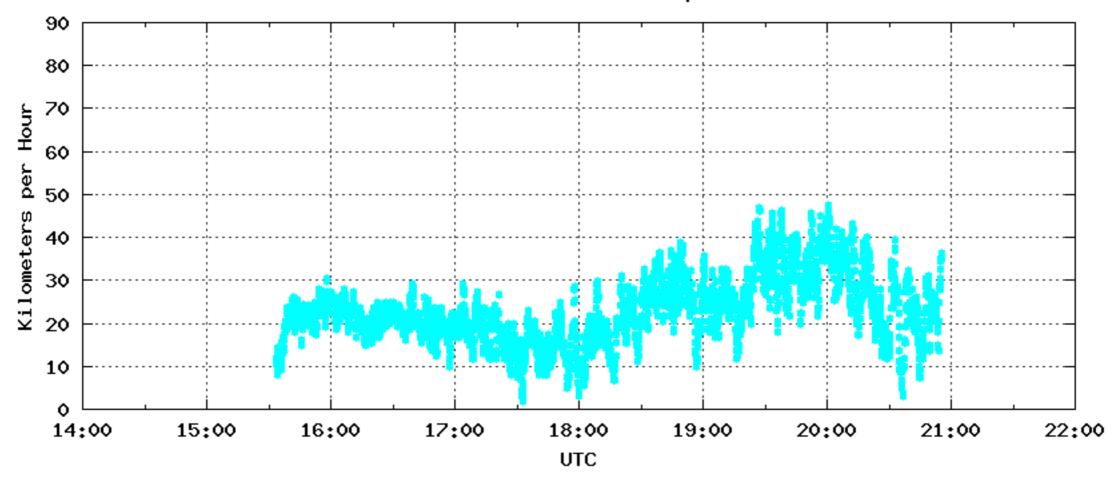
2005/159 DSS-14 Barometric Pressure and Precipitation Rate

Relative Humidity (%)

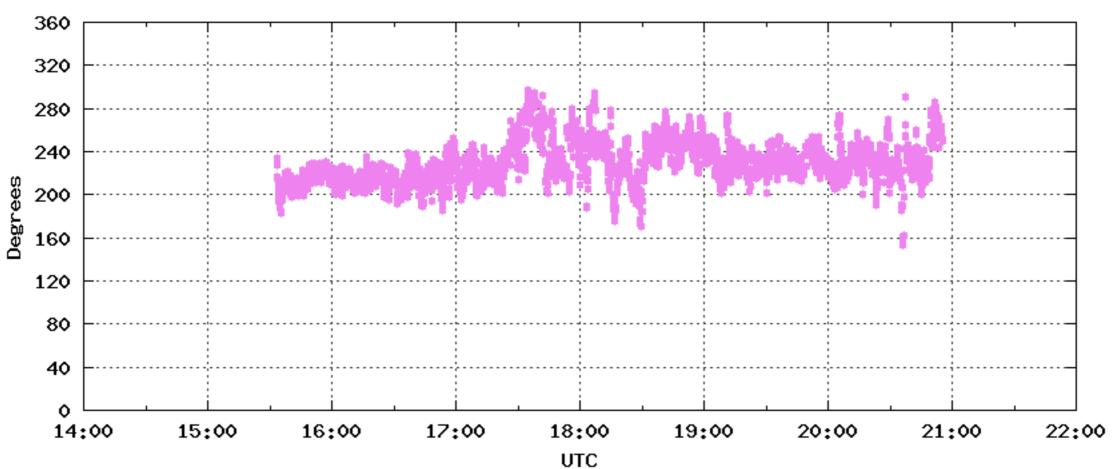
Dew Point Temperature (degrees Celsius)

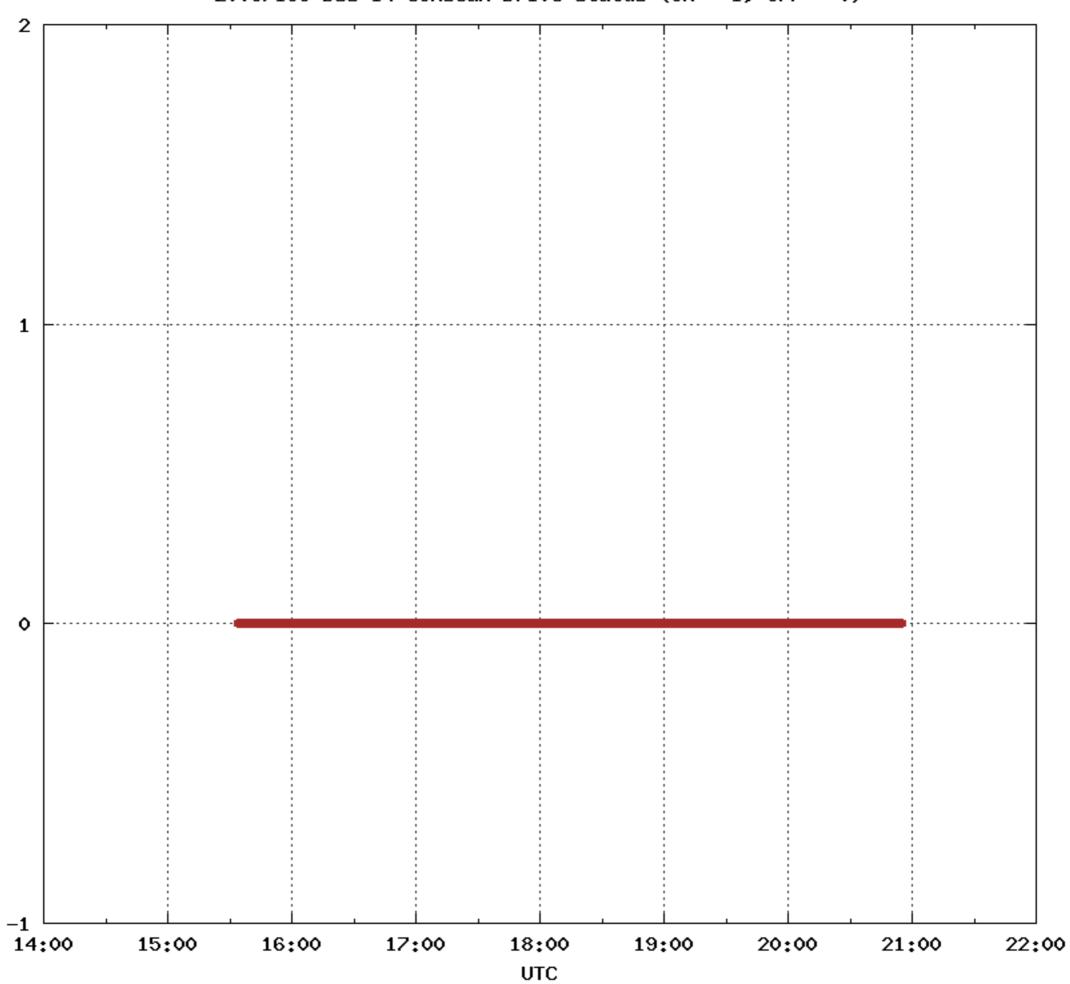


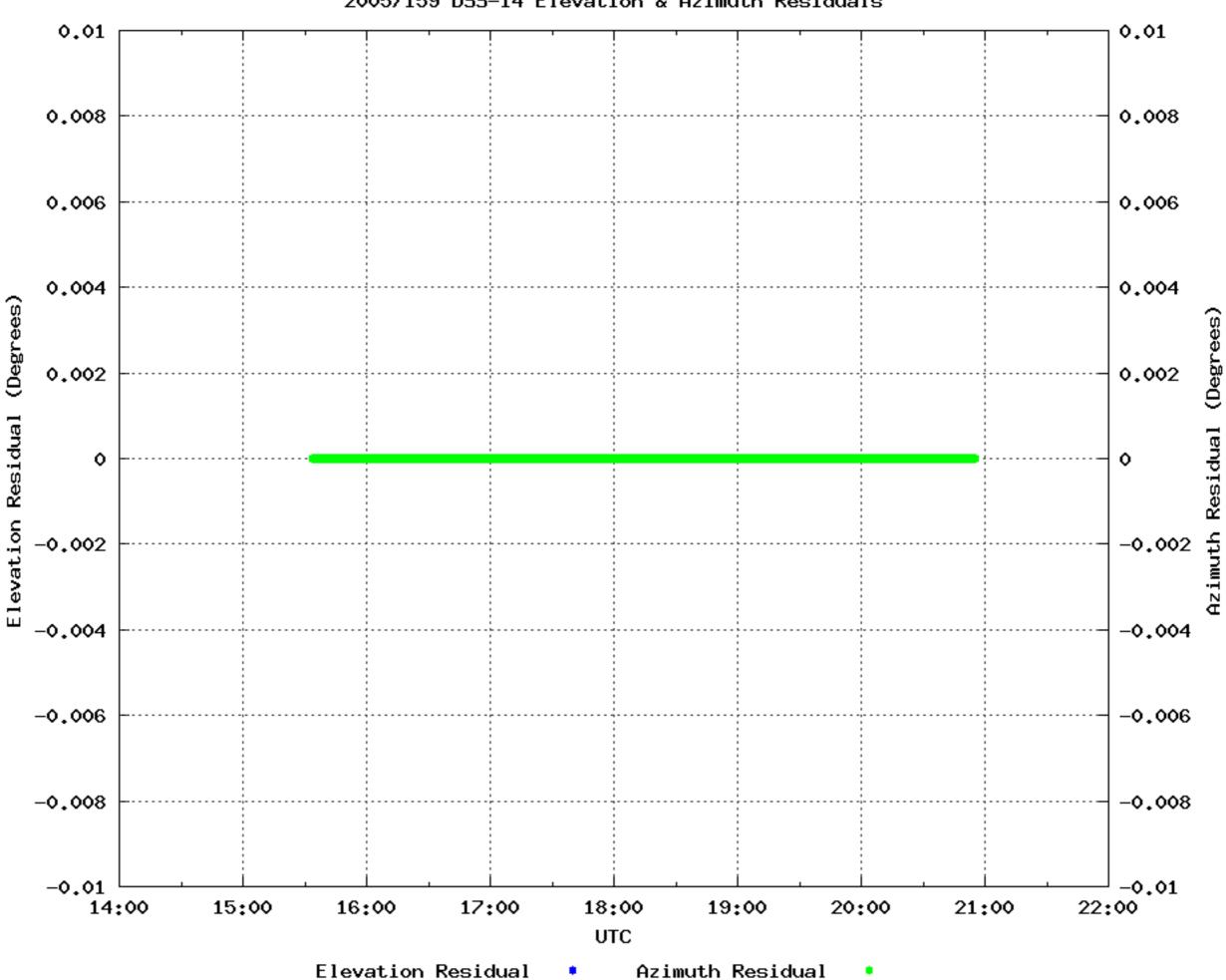
Barometric Pressure (Millibars) Precipitation Rate (Millimeters per Hour)



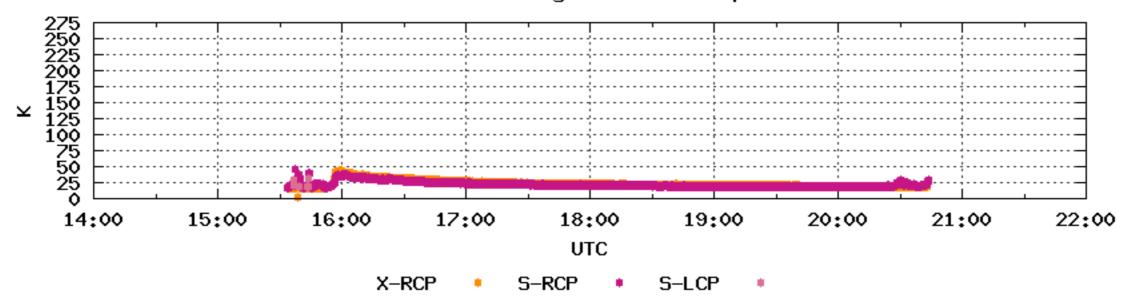




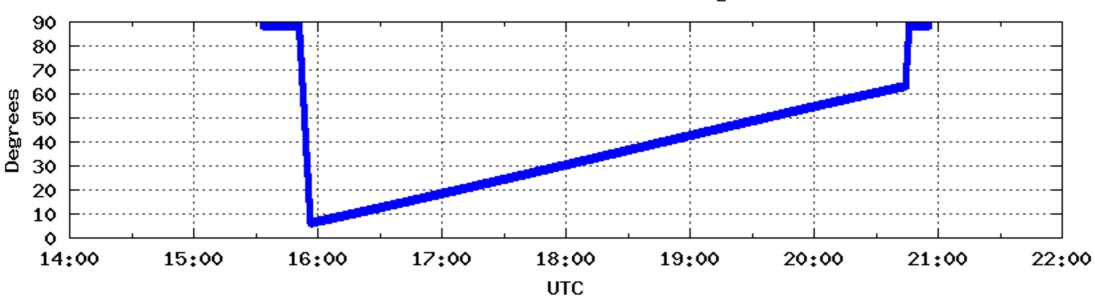


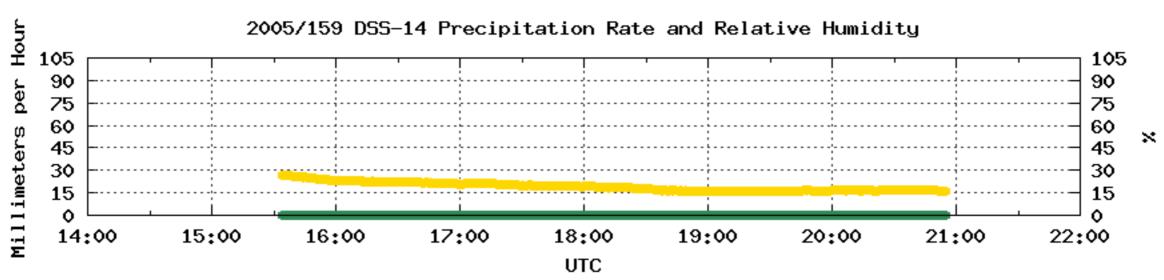


2005/159 DSS-14 System Noise Temperature



2005/159 DSS-14 Elevation Angle





Precipitation Rate (Millimeters per Hour) • Relative Humidity (%) •

02. Carrier Power to Noise Spectral Density Ratio (Pc/No) and Residual Frequency

Top:

Carrer Power to Noise Spectral Density Ratio (M-1315, M-1815, M-2315, M-2815) filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802) categorized 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. 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)

04. S-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)

05. Carrier Power to Noise Spectral Density Ratio (Pc/No) and Carrier Power

Top:

Carrer Power to Noise Spectral Density Ratio (M-1315, M-1815, M-2315, M-2815) filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802) categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

Bottom:

Carrer Power (M-1310, M-1810, M-2310, M-2810)
filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802)
categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745)
and Polarization (M-1267, M-1767, M-2267, M-2767)

06. Carrier Power to Noise Spectral Density Ratio (Pc/No) and System Noise Temperature

Carrer Power to Noise Spectral Density Ratio (M-1315, M-1815, M-2315, M-2815) filtered by Carrier Tracking Loop Status (M-1302, M-1802, M-2302, M-2802) categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

System Noise Temperature (M-1318, M-1818, M-2318, M-2818) categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

07. 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)

08. Subreflector Tracking Status

Subreflector Tracking Status (M-0317)

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

10. 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) 11. Wind Speed and Direction

Top:

Wind Speed (M-0388)

Bottom:

Wind Direction (M-0391)

12. Conscan Drive Status

Conscan Drive Status (M-0308)

13. Azimuth & Elevation Residuals

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

14. System Noise Temperature, Elevation, Precipitation Rate, and Relative Humidity

Top:

System Noise Temperature (M-1318, M-1818, M-2318, M-2818) categorized by Downlink Band (M-1245, M-1745, M-2245, M-2745) and Polarization (M-1267, M-1767, M-2267, M-2767)

Middle:

Elevation Angle (M-0304)

Bottom:

Precipitation Rate (M-0406) Relative Humidity (M-0409)