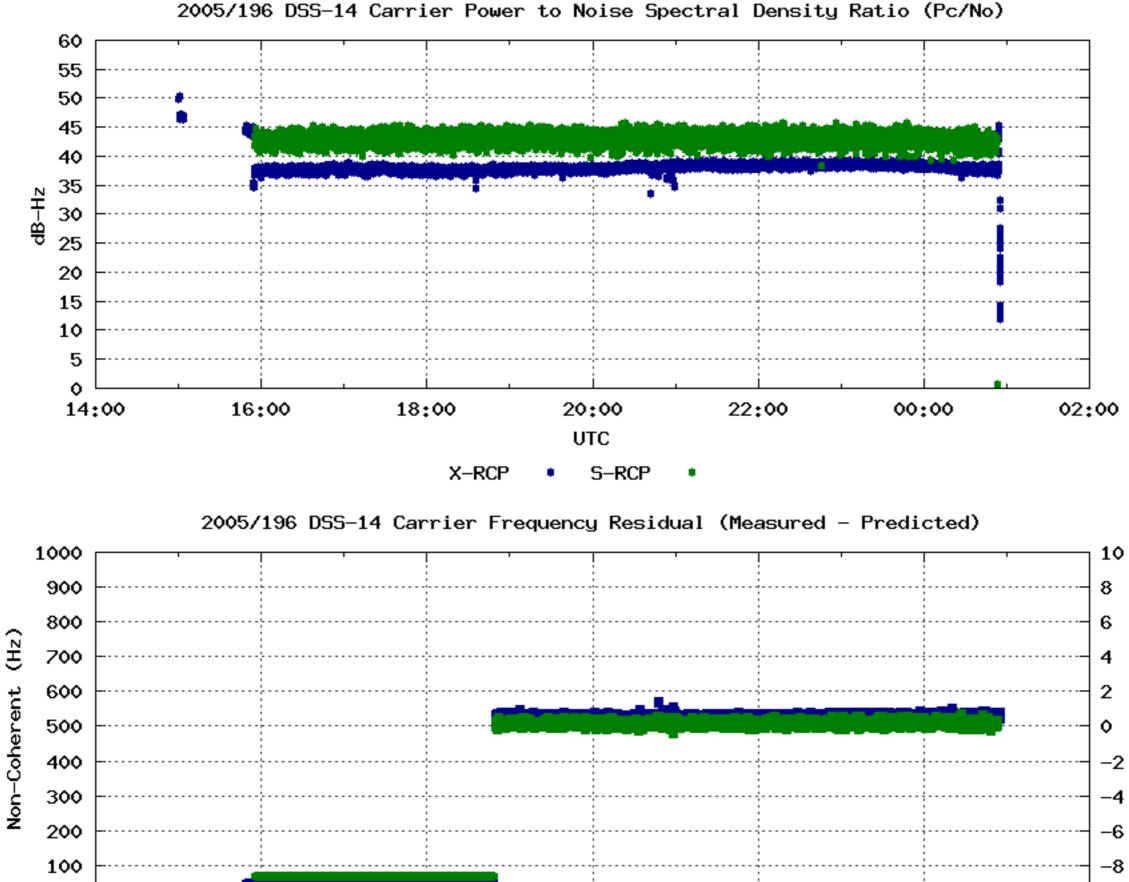
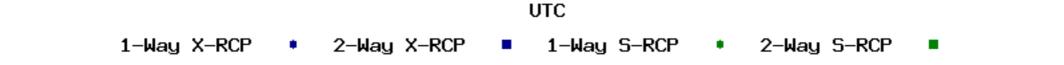
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DSS: 14
Monitor File: S12EASC2005_196_1415_14_MON.ecsv
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APPLICABLE_STOP_TIME = 2005-197T01:10:26.320;
60 minutes omitted from beginning of file
5 minutes omitted from end of file

- 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. Uplink Frequency and Power
- 06. Carrier Power to Noise Spectral Density Ratio (Pc/No) and Carrier Power
- 07. Carrier Power to Noise Spectral Density Ratio (Pc/No) and System Noise Temperature
- 08. Carrier Loop Tracking Bandwidth
- 09. Subreflector Tracking Status
- 10. Azimuth & Elevation
- 11. Weather: Air Temperature, Dew Point Temperature, Relative Humidity, Precipitation Rate, and Barometric Pressure
- 12. Wind Speed and Direction
- 13. Conscan Drive Status
- 14. Azimuth & Elevation Residuals
- 15. System Noise Temperature, Elevation, Precipitation Rate, and Relative Humidity
- 16. Index





20:00

22:00

00:00

18:00

0

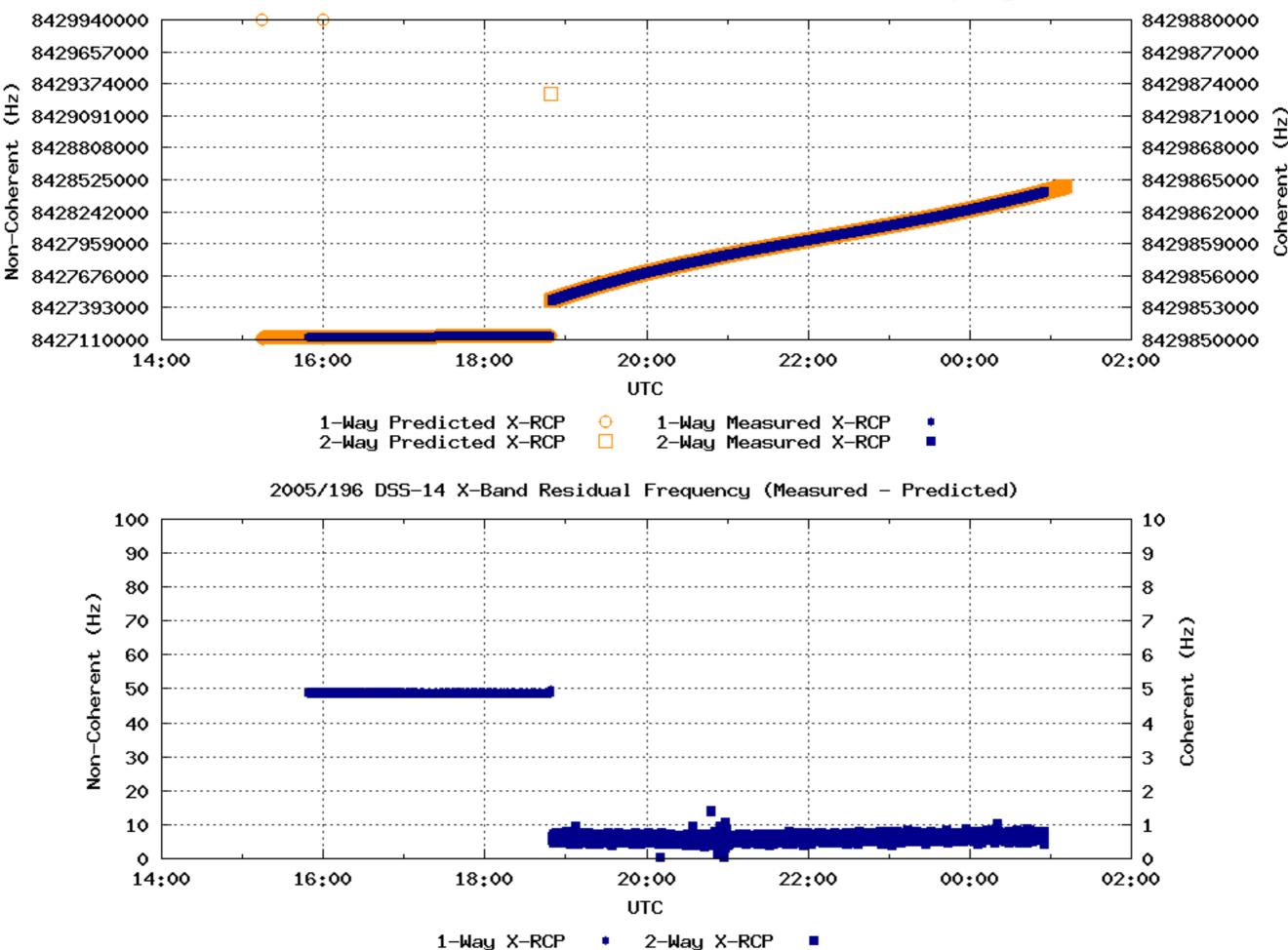
14:00

16:00

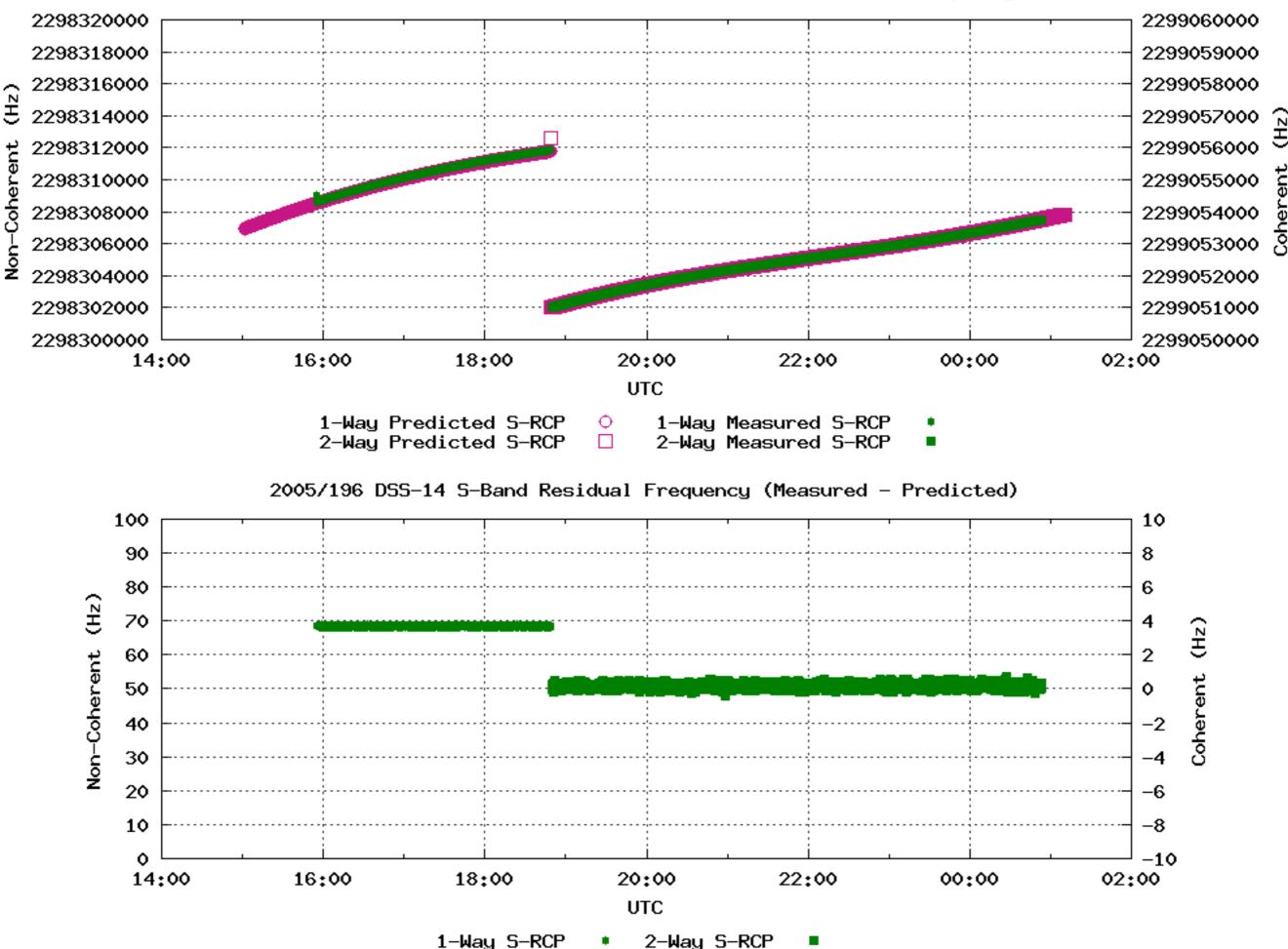
Coherent (Hz)

-10

02:00

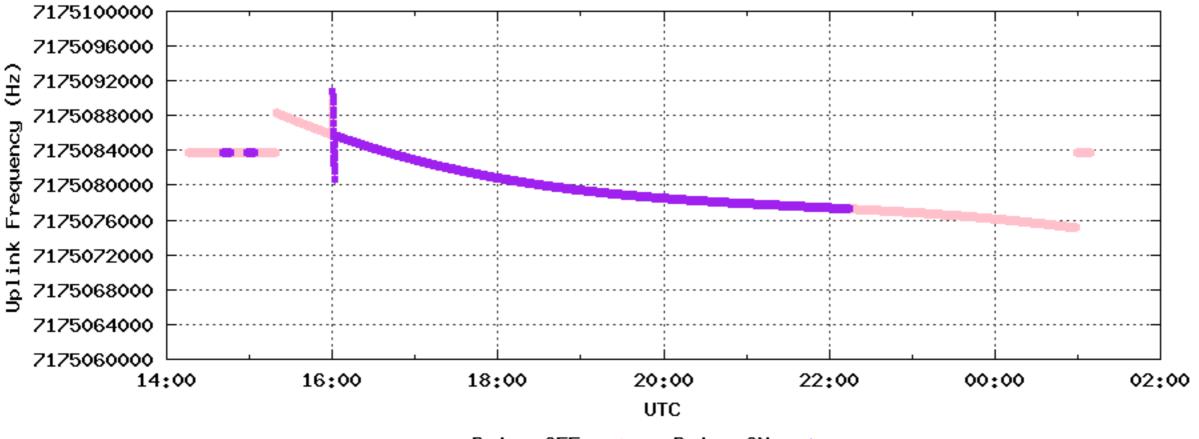


2005/196 DSS-14 X-Band Measured and Predicted Carrier Frequency



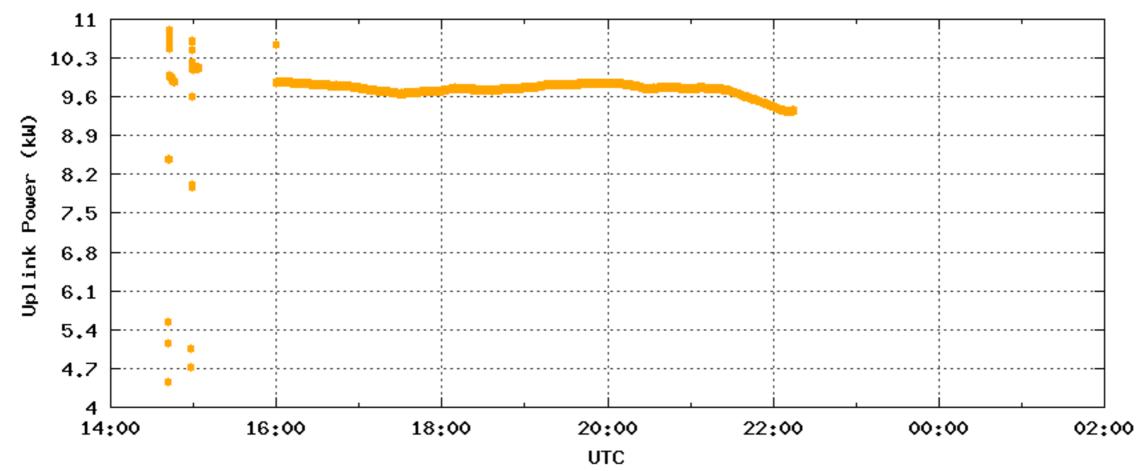
2005/196 DSS-14 S-Band Measured and Predicted Carrier Frequency

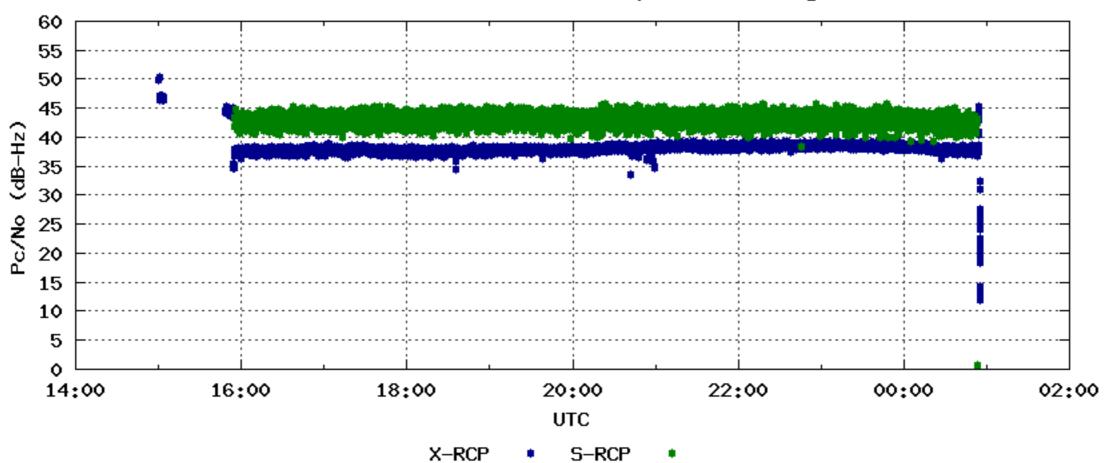
2005/196 DSS-14 Uplink Frequency



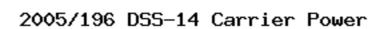


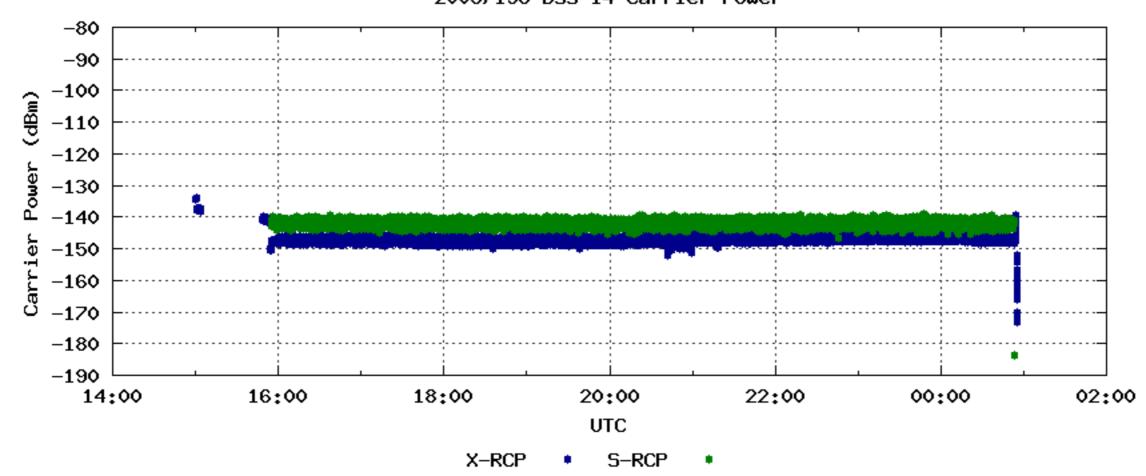
2005/196 DSS-14 Uplink Power (with TXR ON and when > 1)

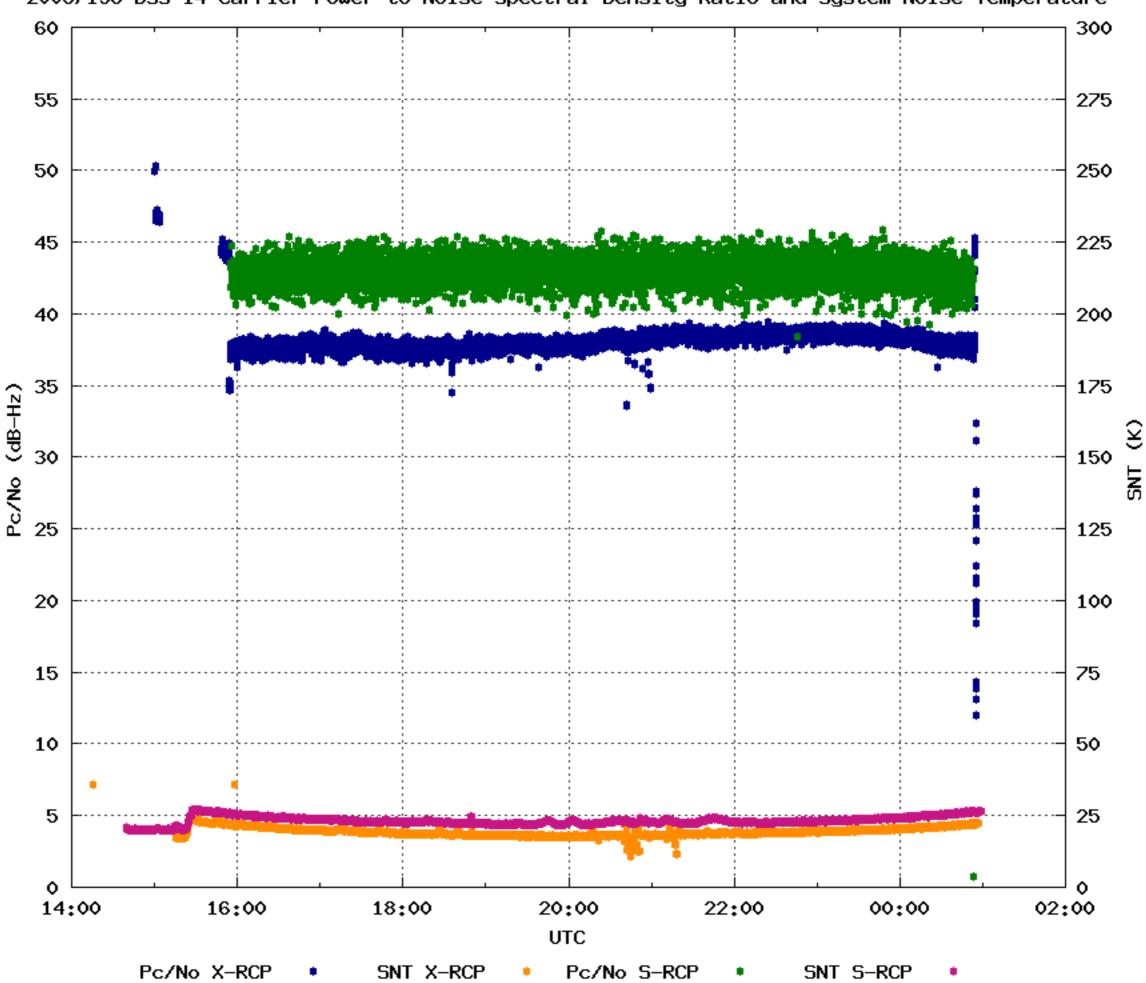




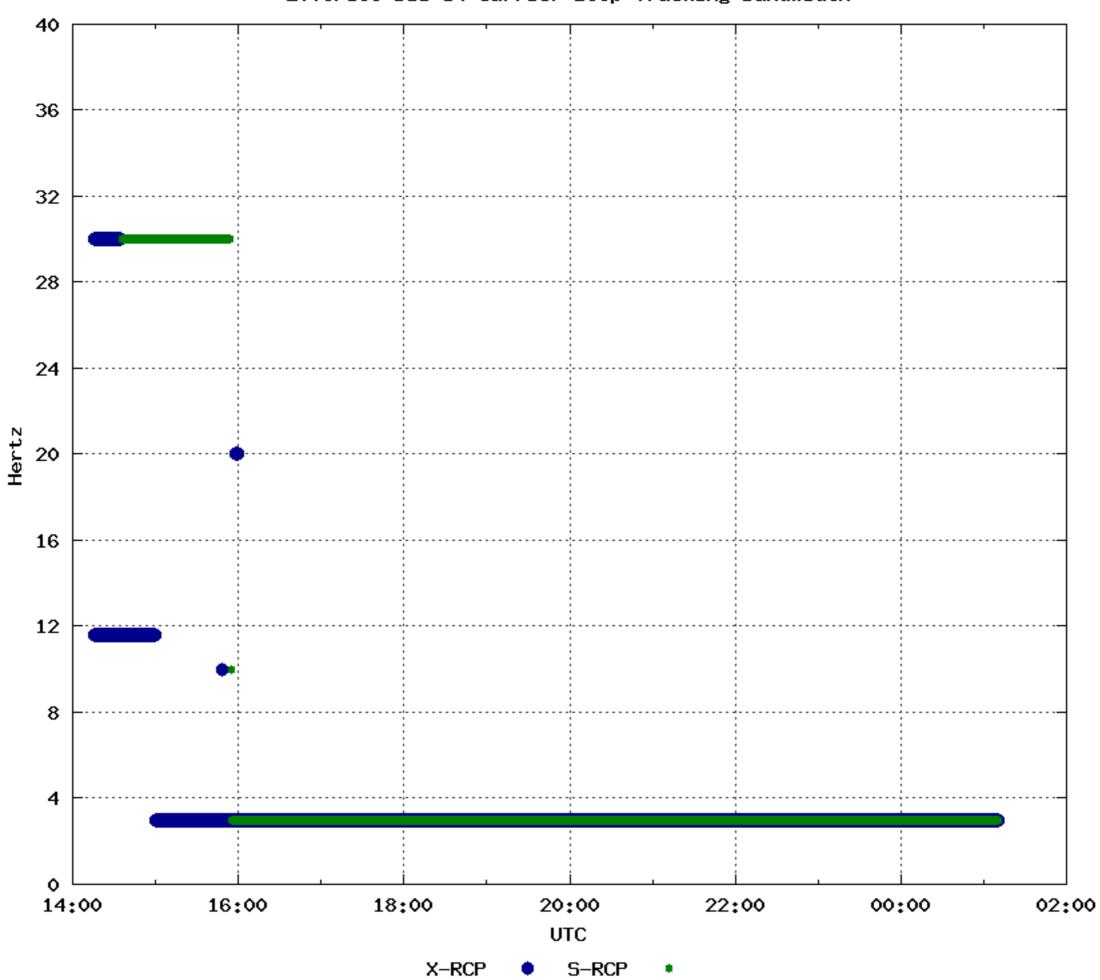




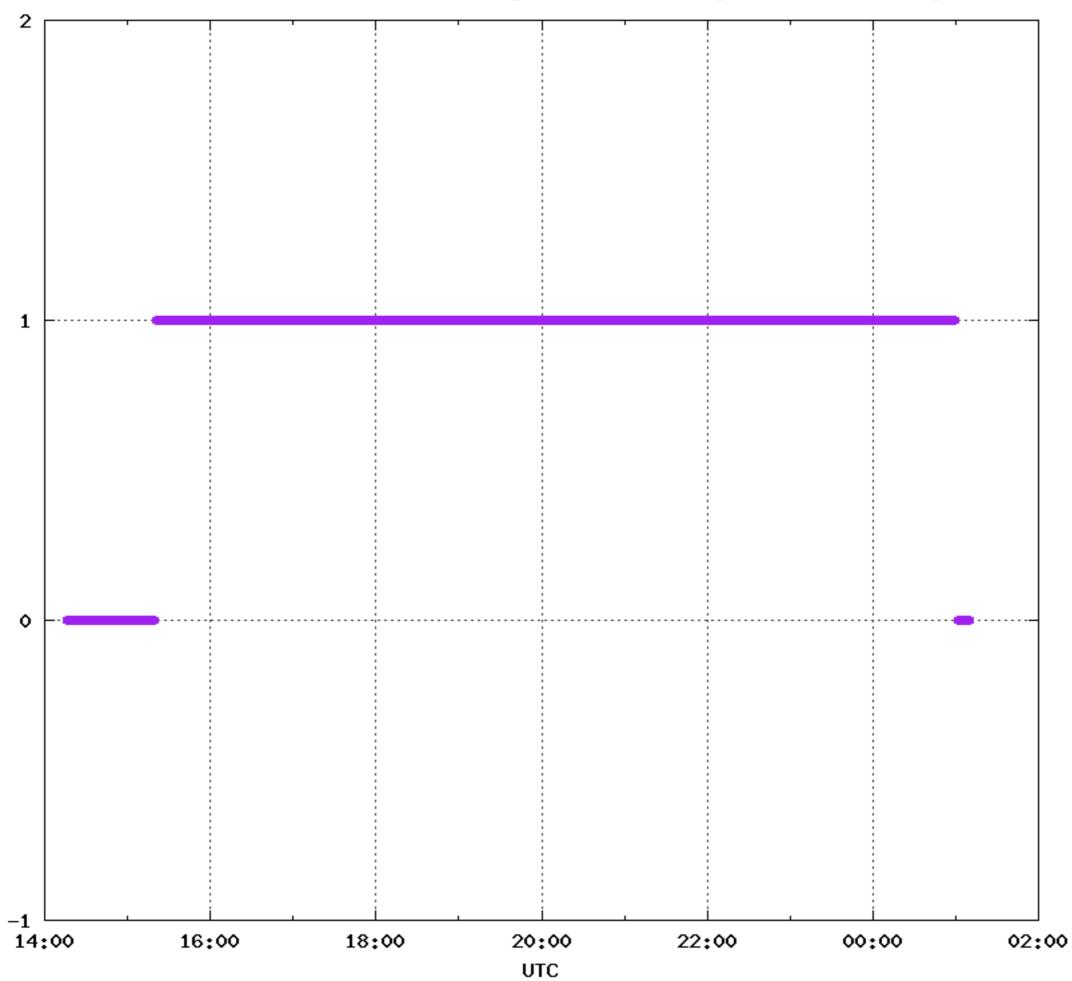




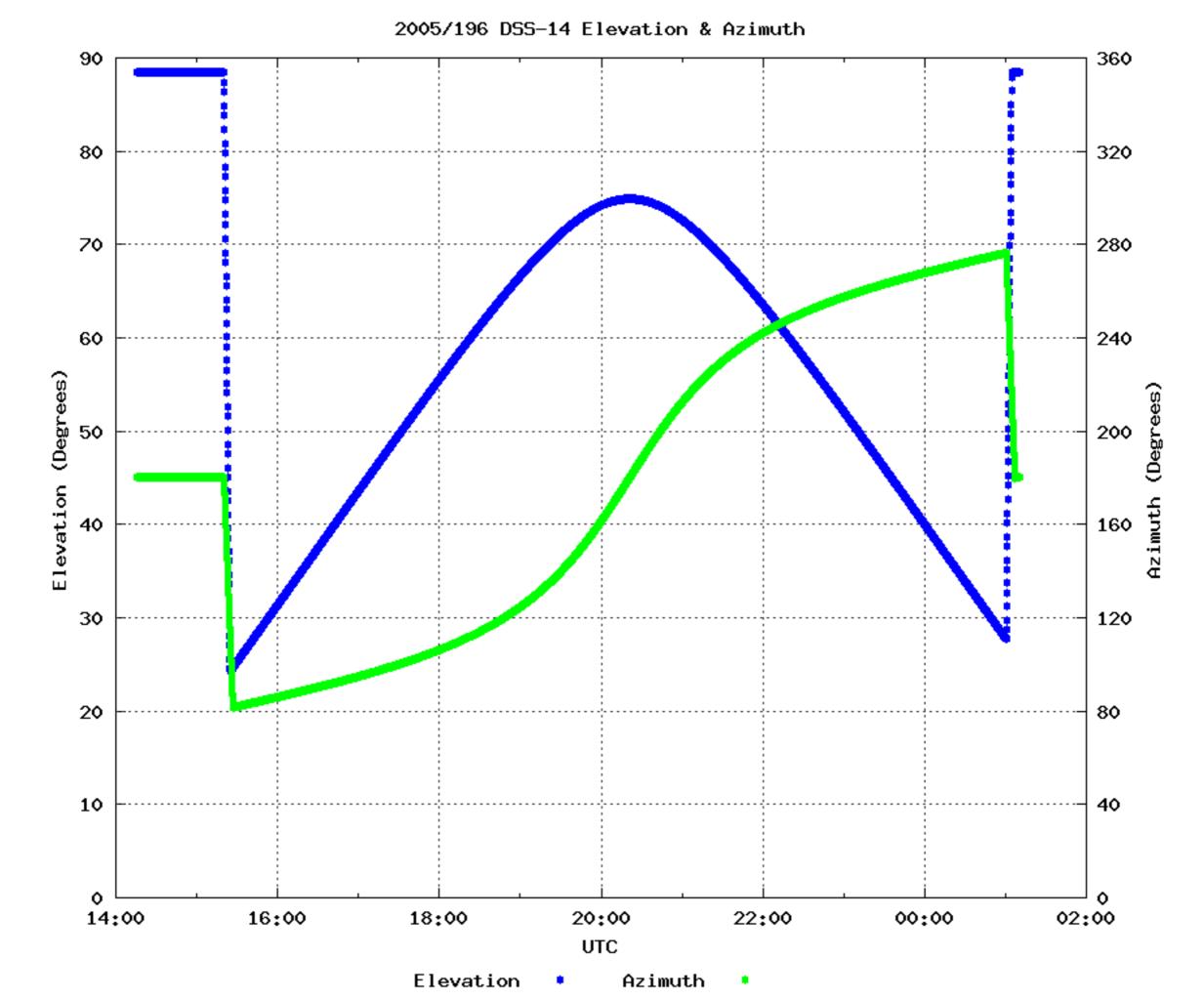
2005/196 DSS-14 Carrier Power to Noise Spectral Density Ratio and System Noise Temperature

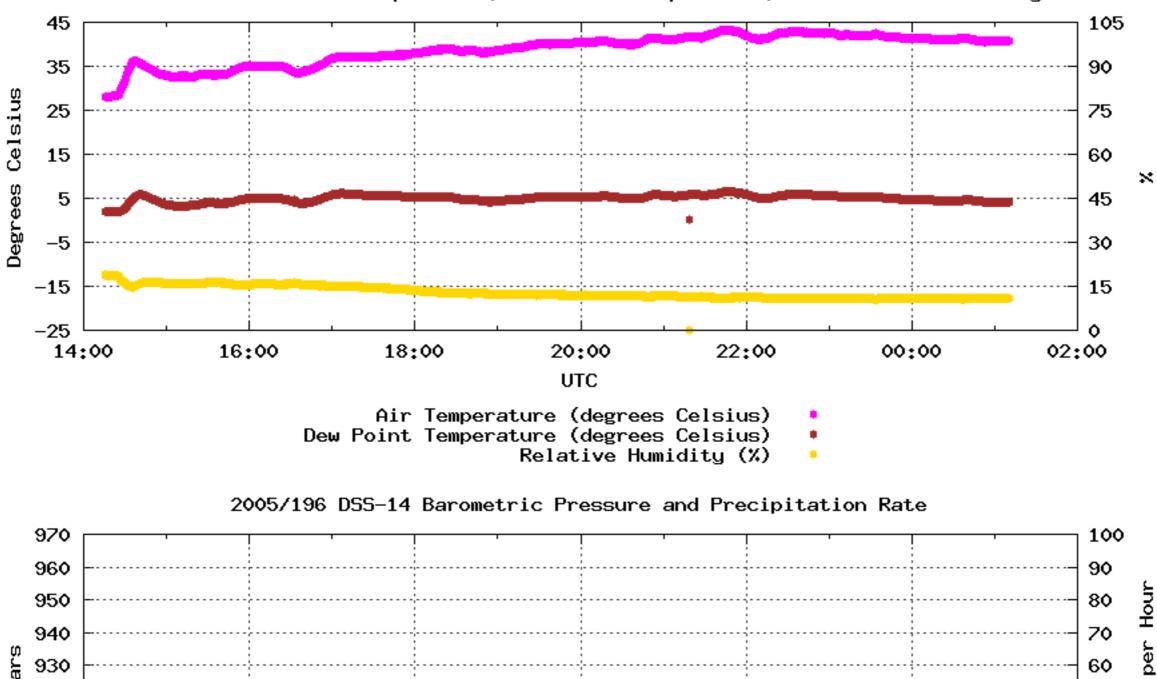


2005/196 DSS-14 Carrier Loop Tracking Bandwidth



2005/196 DSS-14 Subreflector Tracking Status (Tracking = 1; Not Tracking = 0)





60

50

40

30

20

10

Ô

02:00

00:00

Millimeters

2005/196 DSS-14 Air Temperature, Dew Point Temperature, and Relative Humidity



20:00

UTC

22:00

Millibars

930

920

910

900

890

880

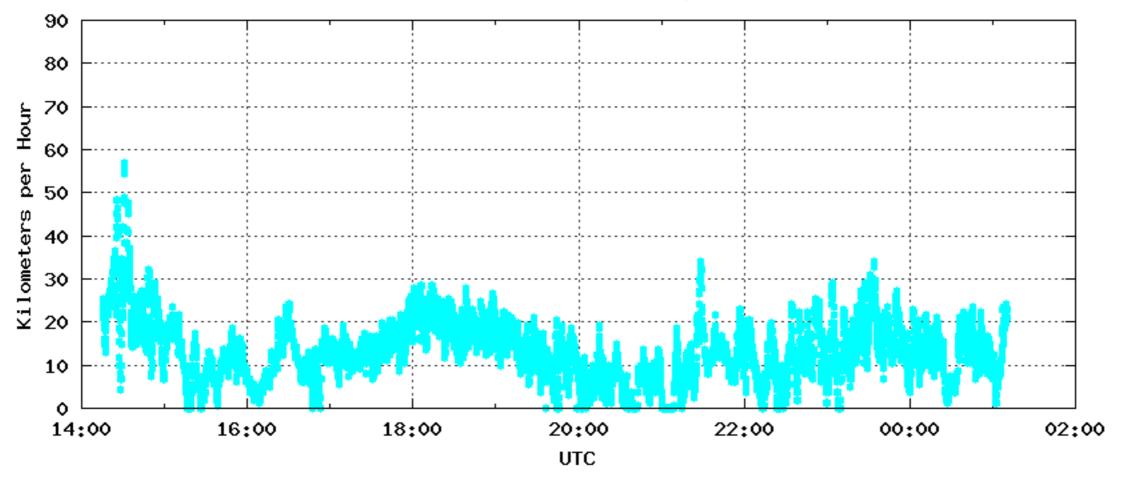
870

14:00

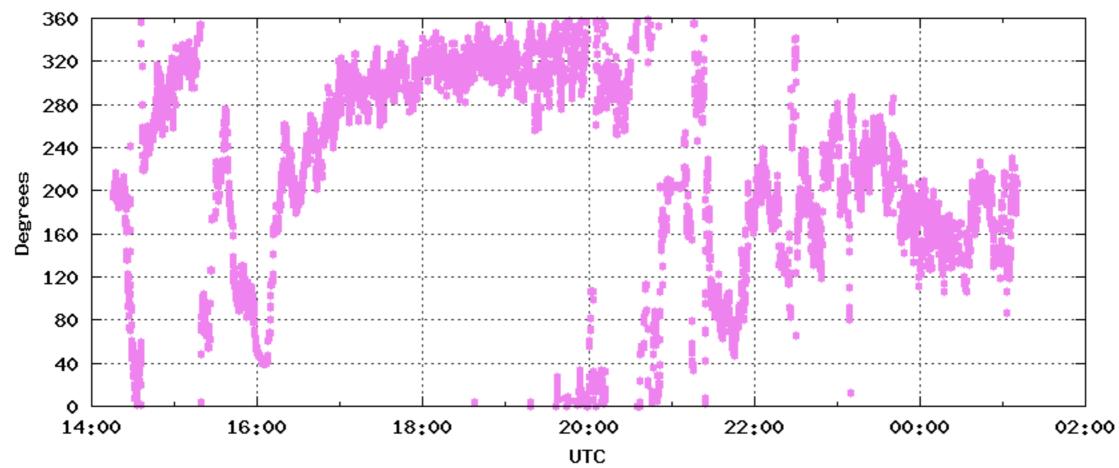
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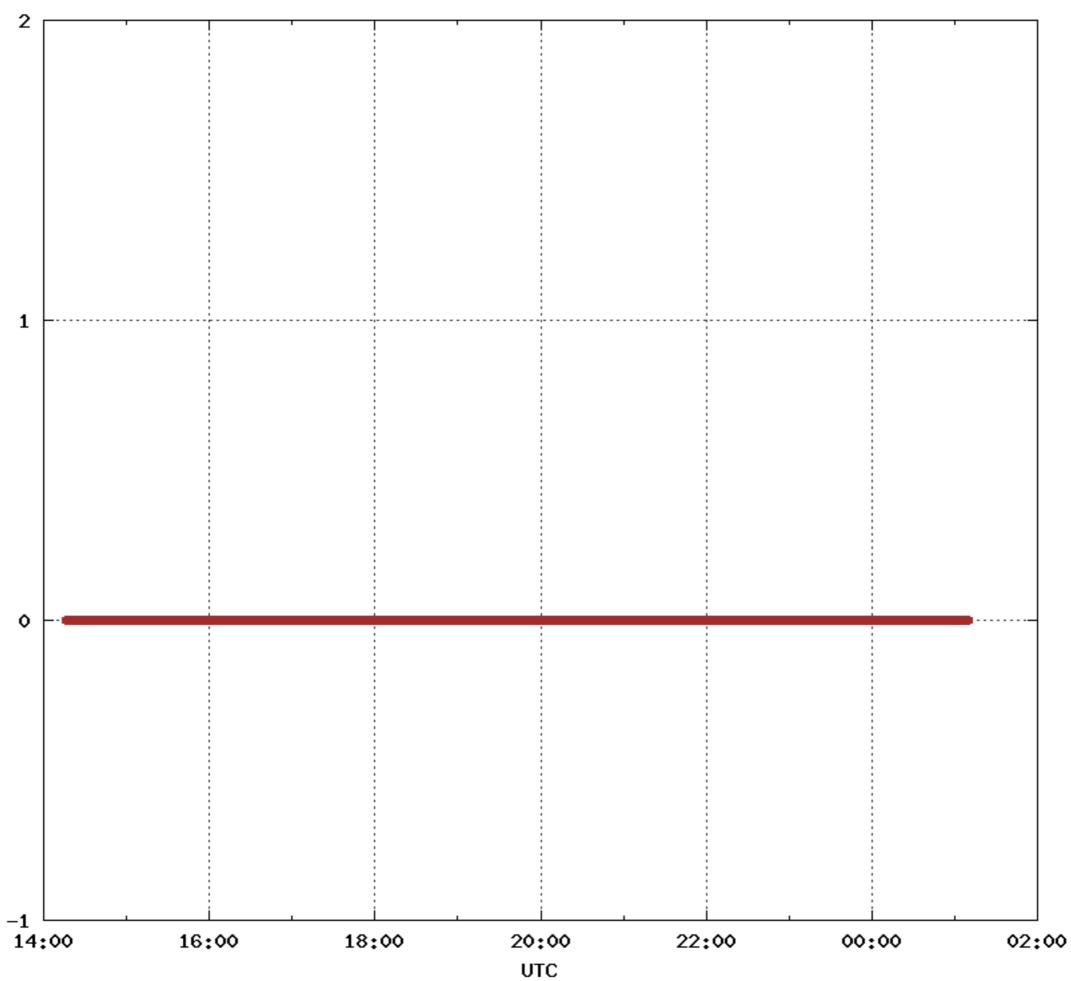
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2005/196 DSS-14 Wind Speed

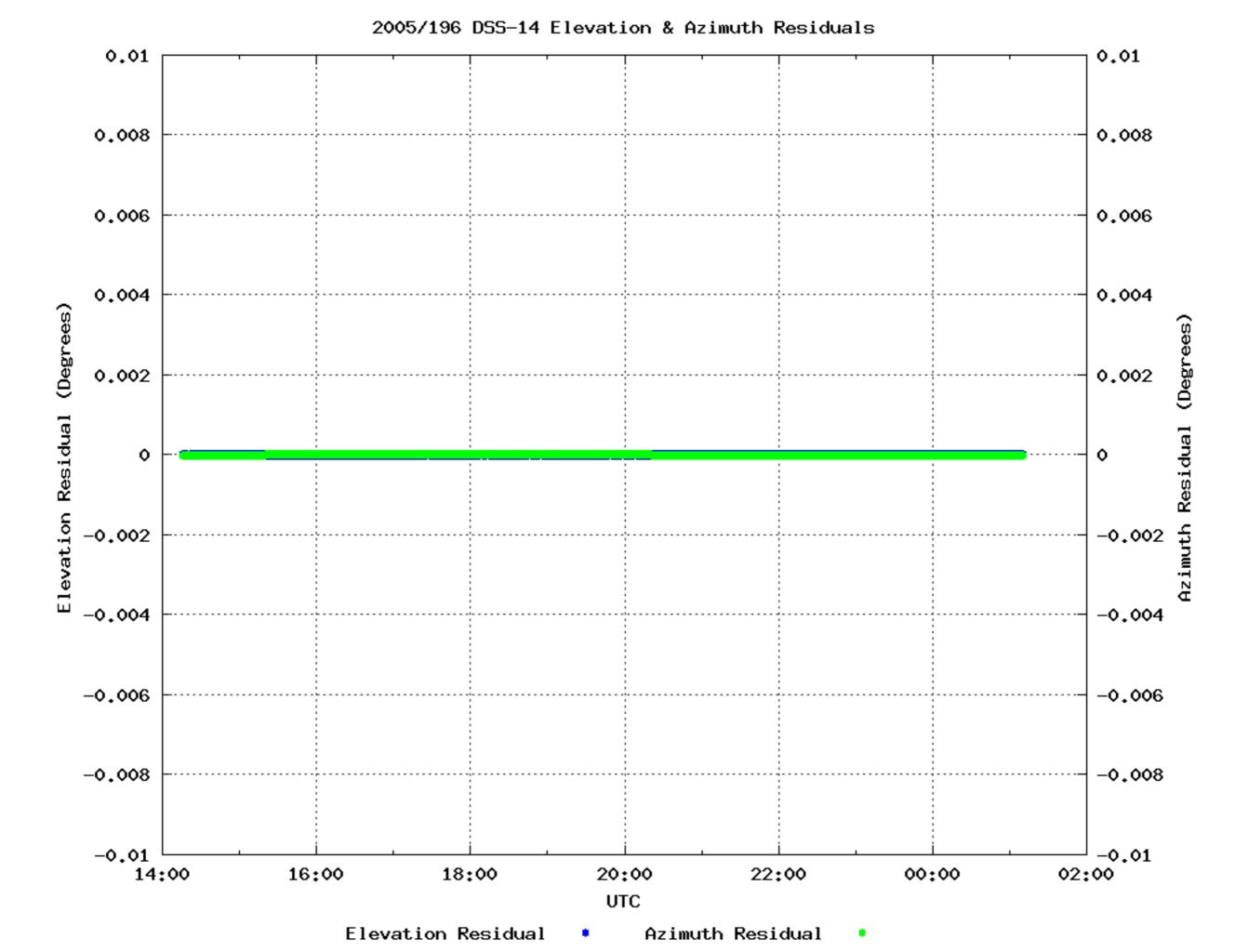


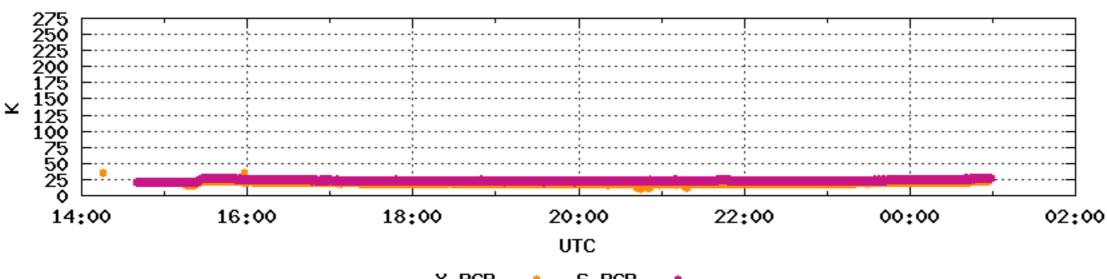






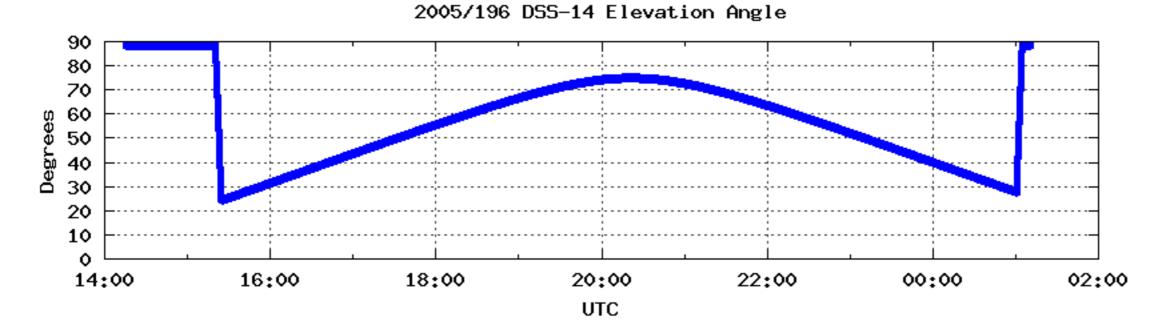
2005/196 DSS-14 Conscan Drive Status (ON = 1; OFF = 0)

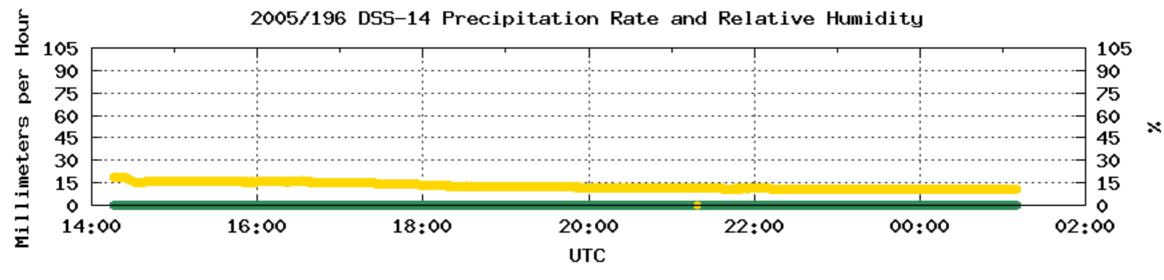




2005/196 DSS-14 System Noise Temperature

X-RCP • S-RCP •





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. 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) 06. 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) 07. 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) 08. 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) 09. Subreflector Tracking Status Subreflector Tracking Status (M-0317) 10. Azimuth & Elevation Elevation Angle (M-0304) Azimuth Angle (M-0305)

and Polarization (M-1267, M-1767, M-2267, M-2767)

11. 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) 12. Wind Speed and Direction Top: Wind Speed (M-0388) Bottom: Wind Direction (M-0391) 13. Conscan Drive Status Conscan Drive Status (M-0308) 14. Azimuth & Elevation Residuals Elevation Residuals (M-0307) Azimuth Residuals (M-0306) 15. 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)