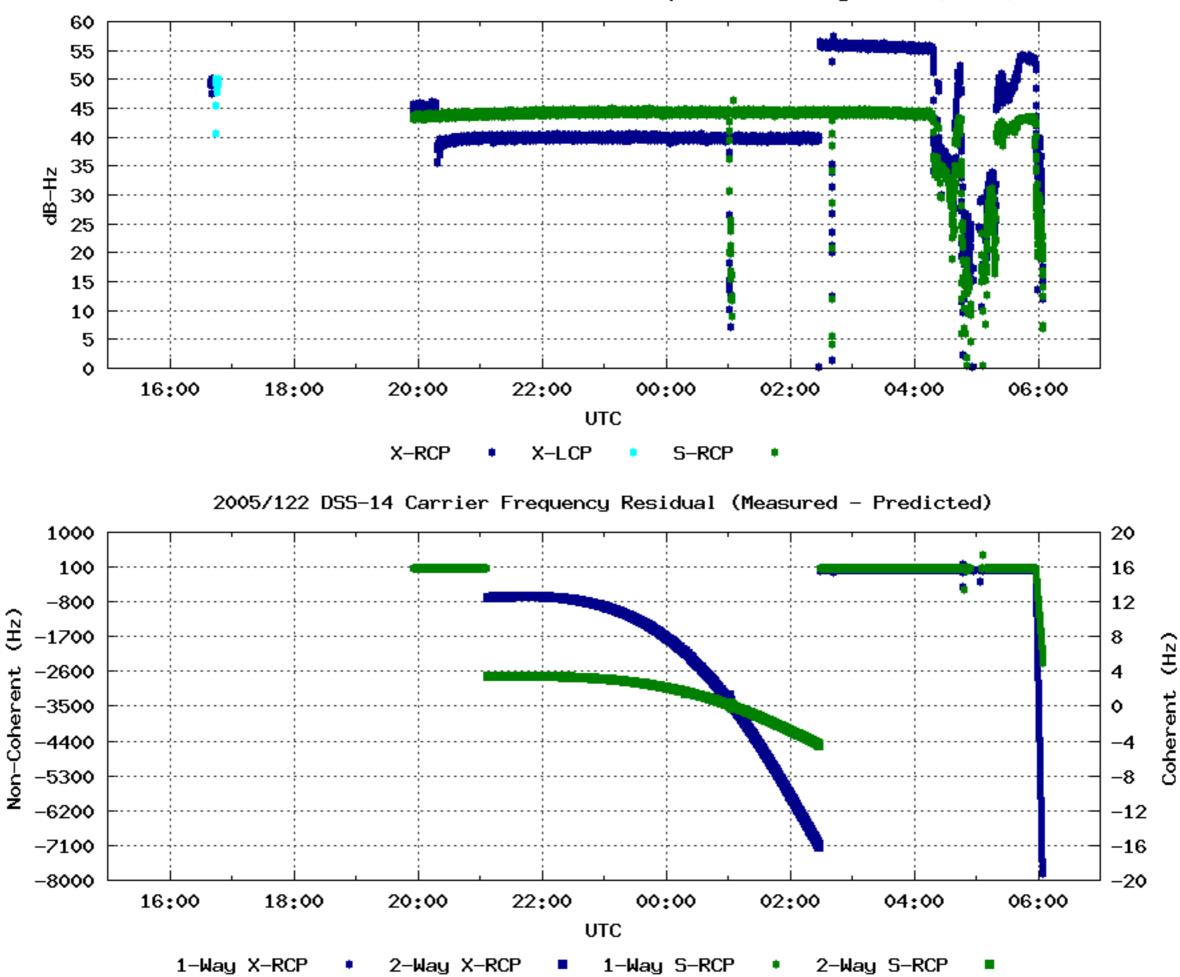
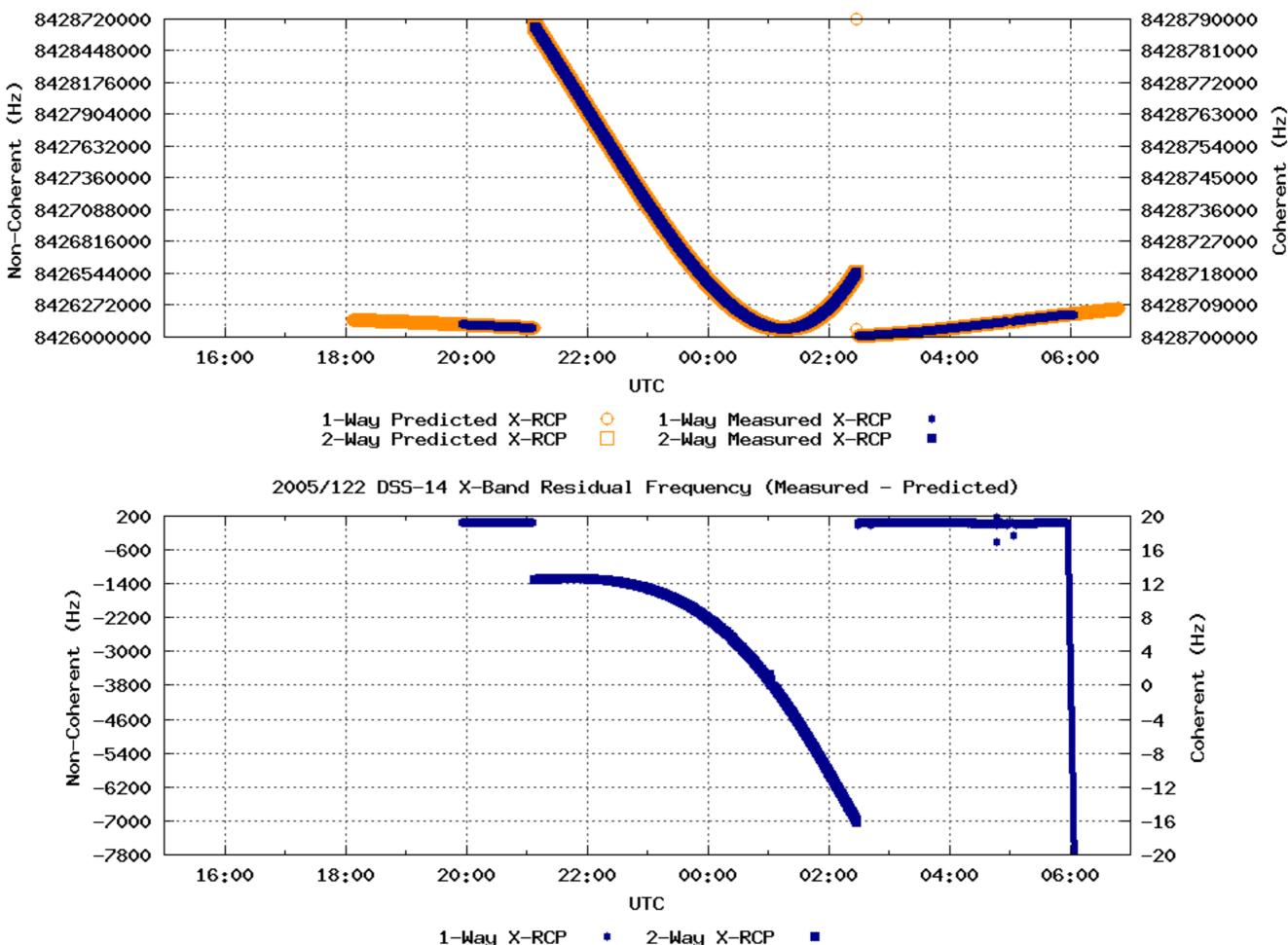
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DSS: 14
Monitor File: S10SROI2005\_122\_1523\_14\_MON.ecsv
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APPLICABLE\_STOP\_TIME = 2005-123T06:53:06.341;
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5 minutes omitted from end of file

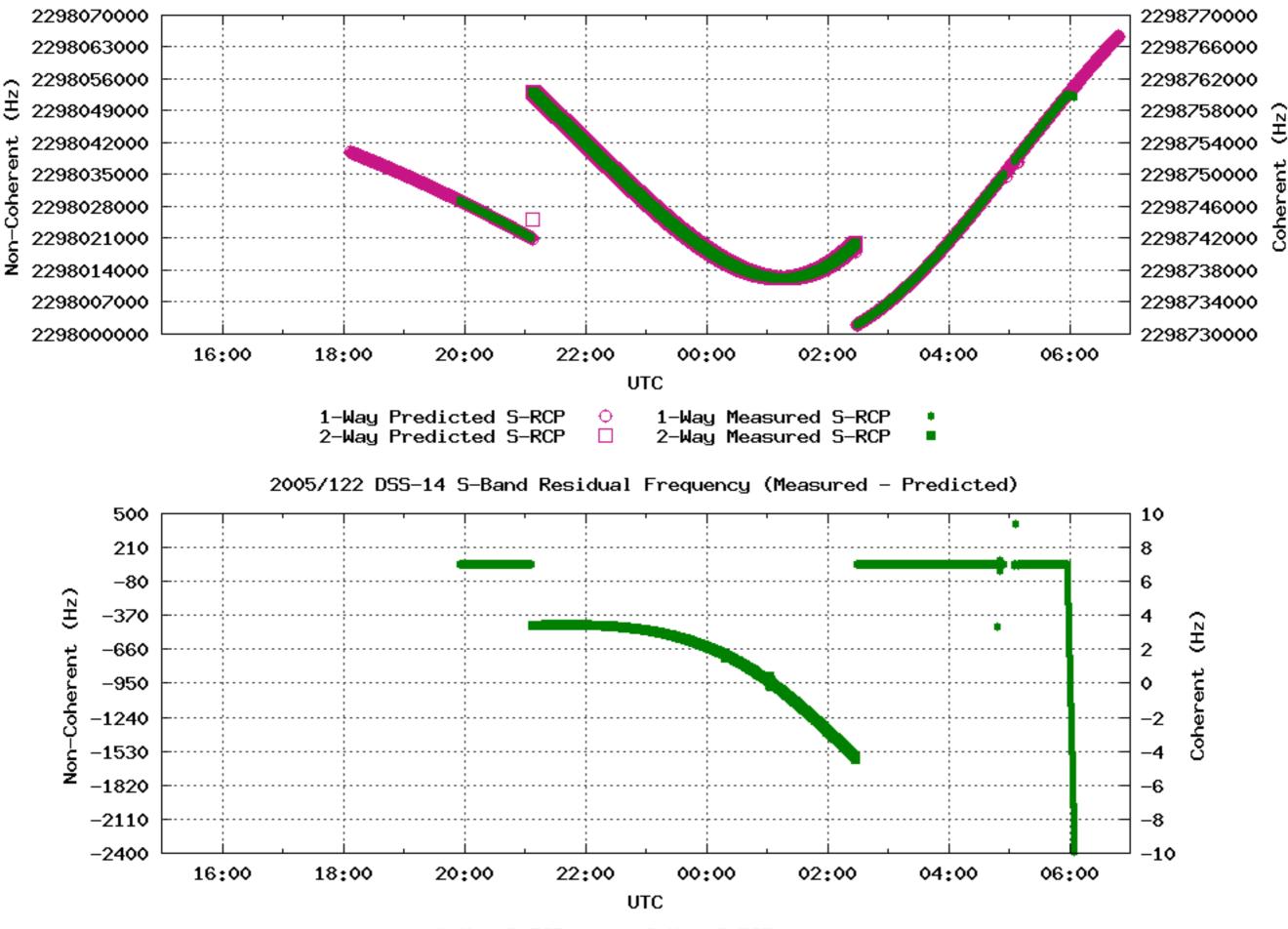
- 02. Carrier Power to Noise Spectral Density Ratio (Pc/No) and Residual Frequency
- 03. X-Band Measured Carrier Frequency, Predicted Carrier Frequency, and Residual Frequency
- 04. S-Band Measured Carrier Frequency, Predicted Carrier Frequency, and Residual Frequency
- 05. Uplink Frequency and Power
- 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



2005/122 DSS-14 Carrier Power to Noise Spectral Density Ratio (Pc/No)



2005/122 DSS-14 X-Band Measured and Predicted Carrier Frequency



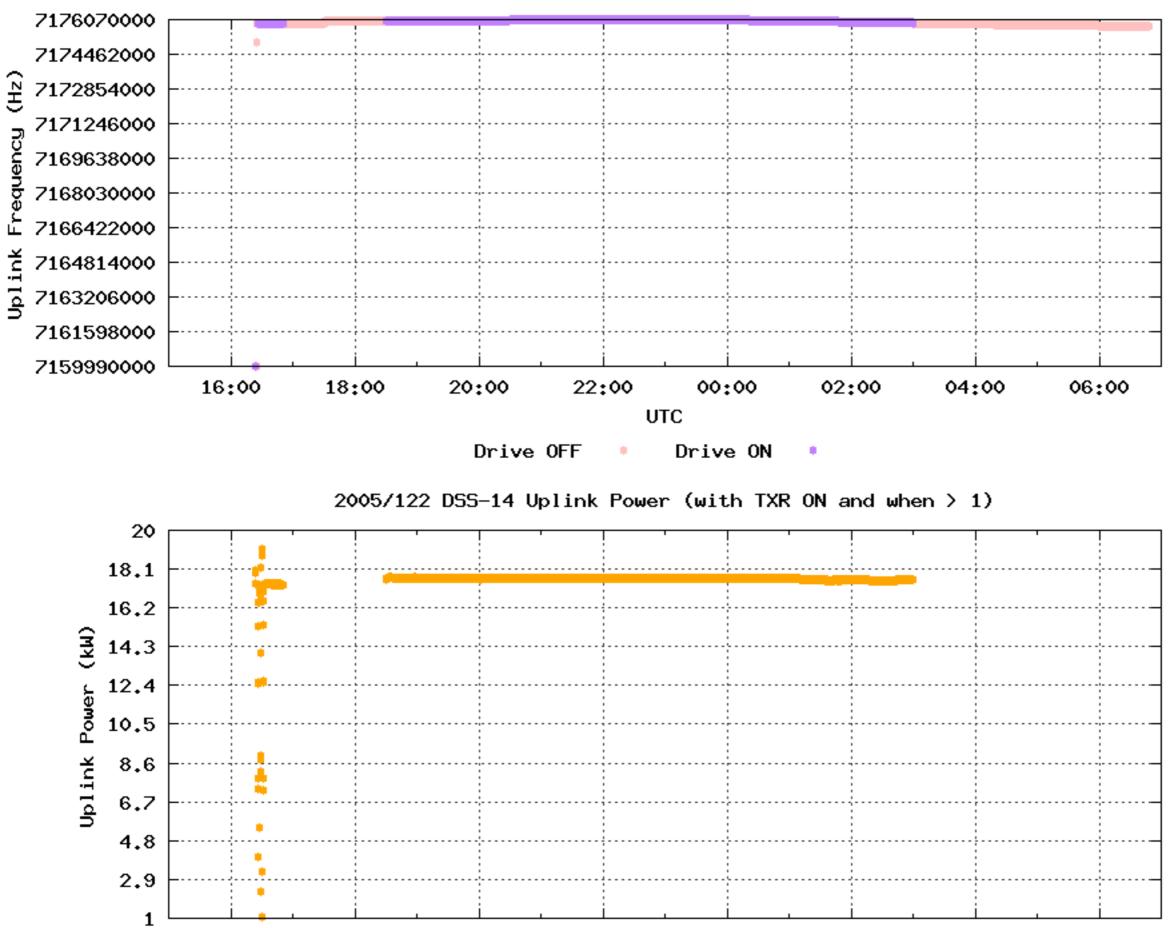
2005/122 DSS-14 S-Band Measured and Predicted Carrier Frequency

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1-Way S-RCP 2-Way S-RCP ۰ 

# 2005/122 DSS-14 Uplink Frequency



00:00

02:00

04:00

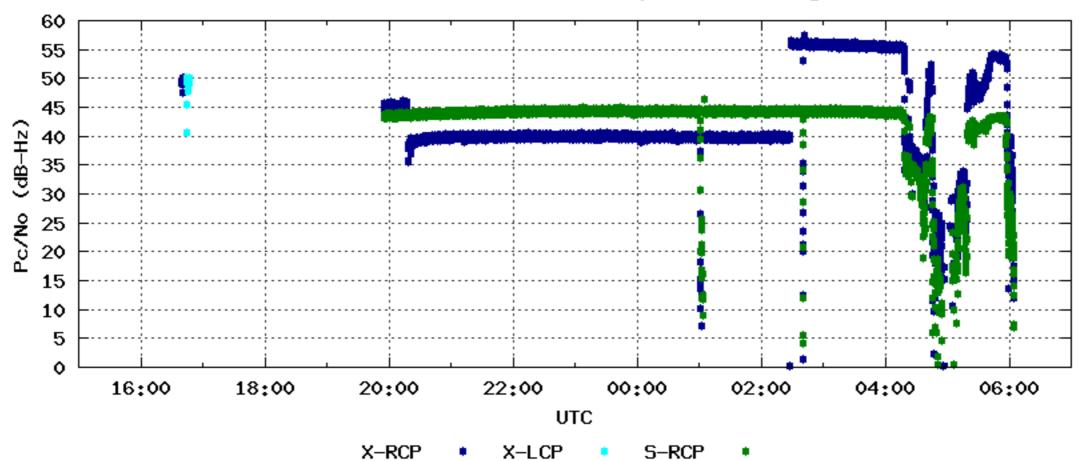
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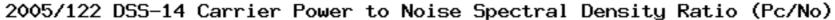
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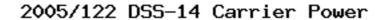
16:00

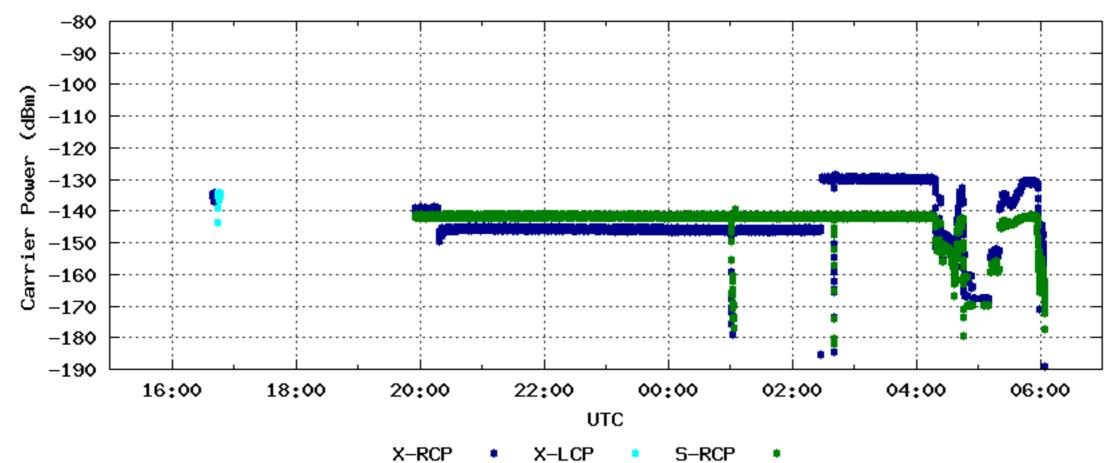
18:00

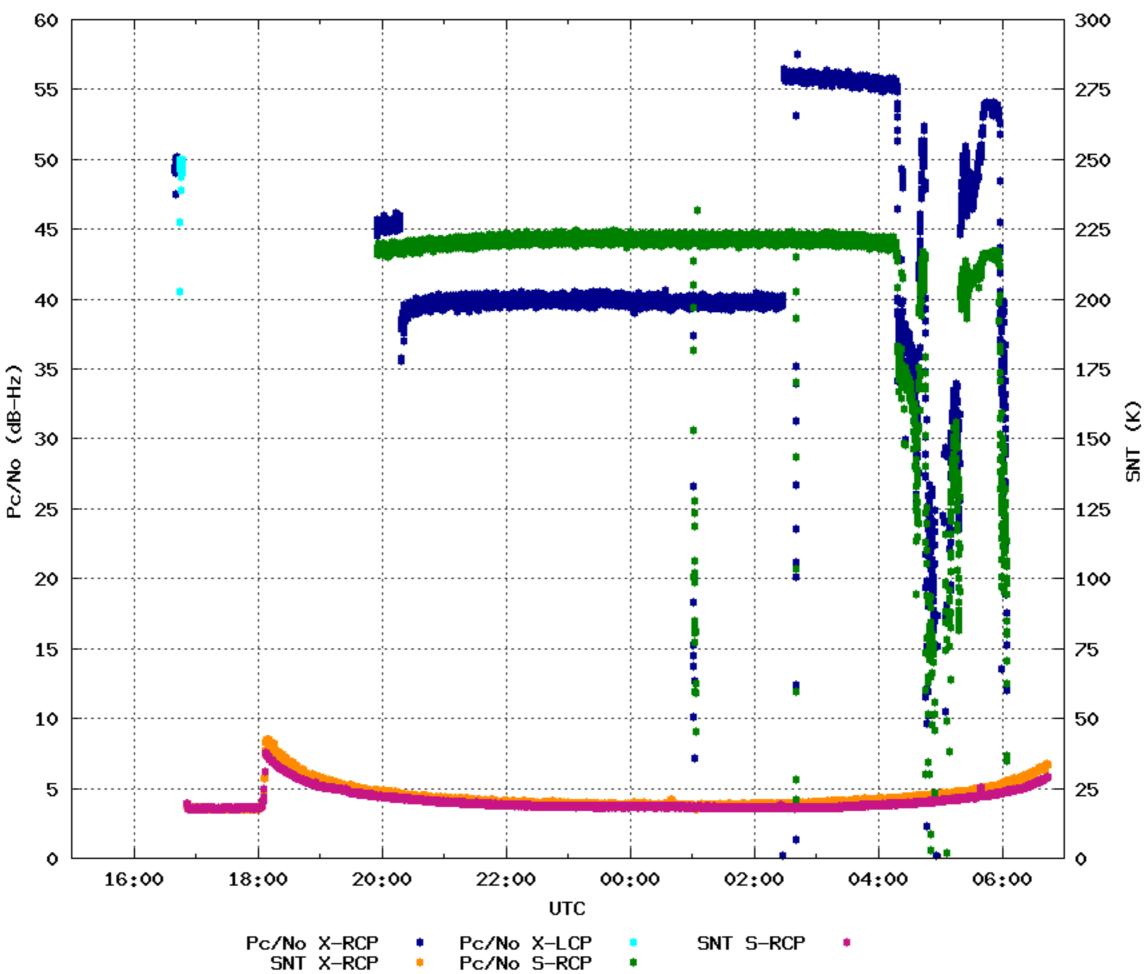
20:00



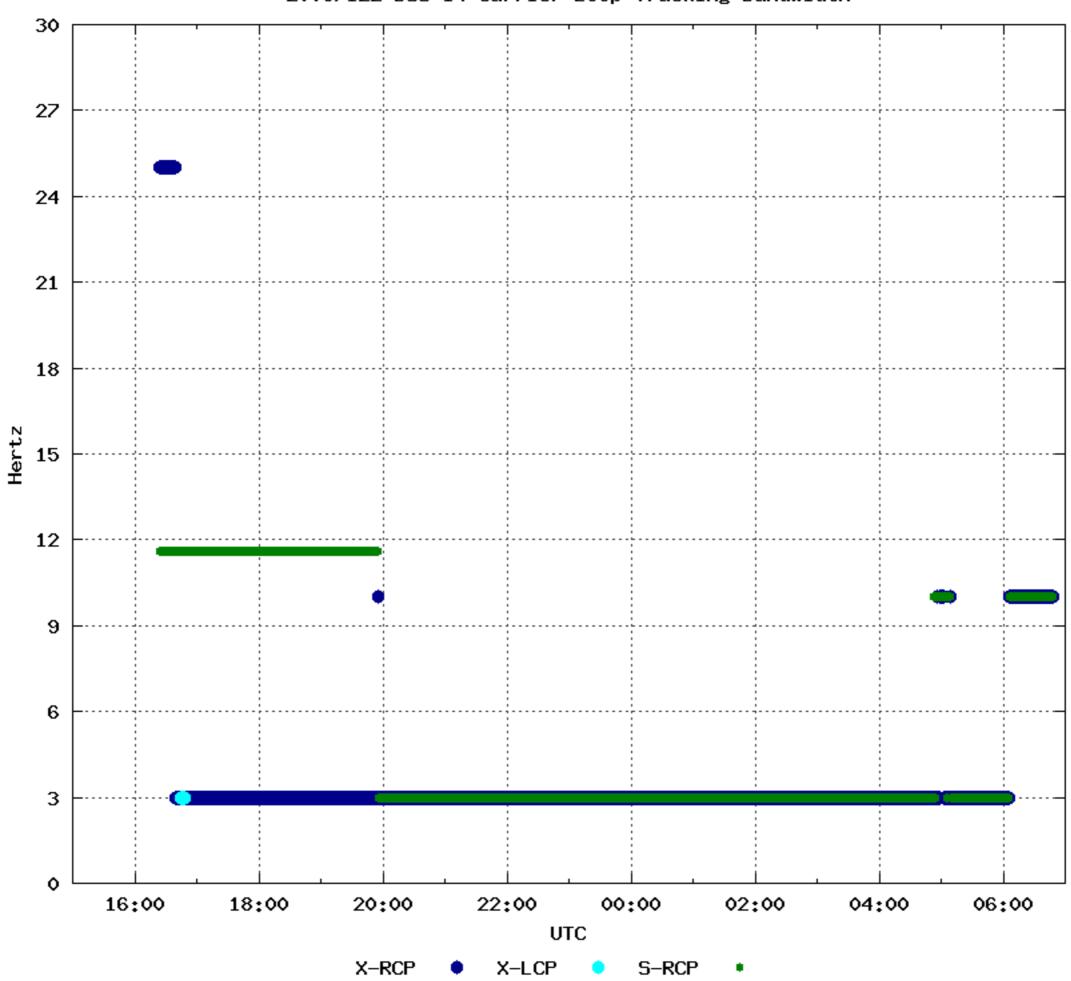






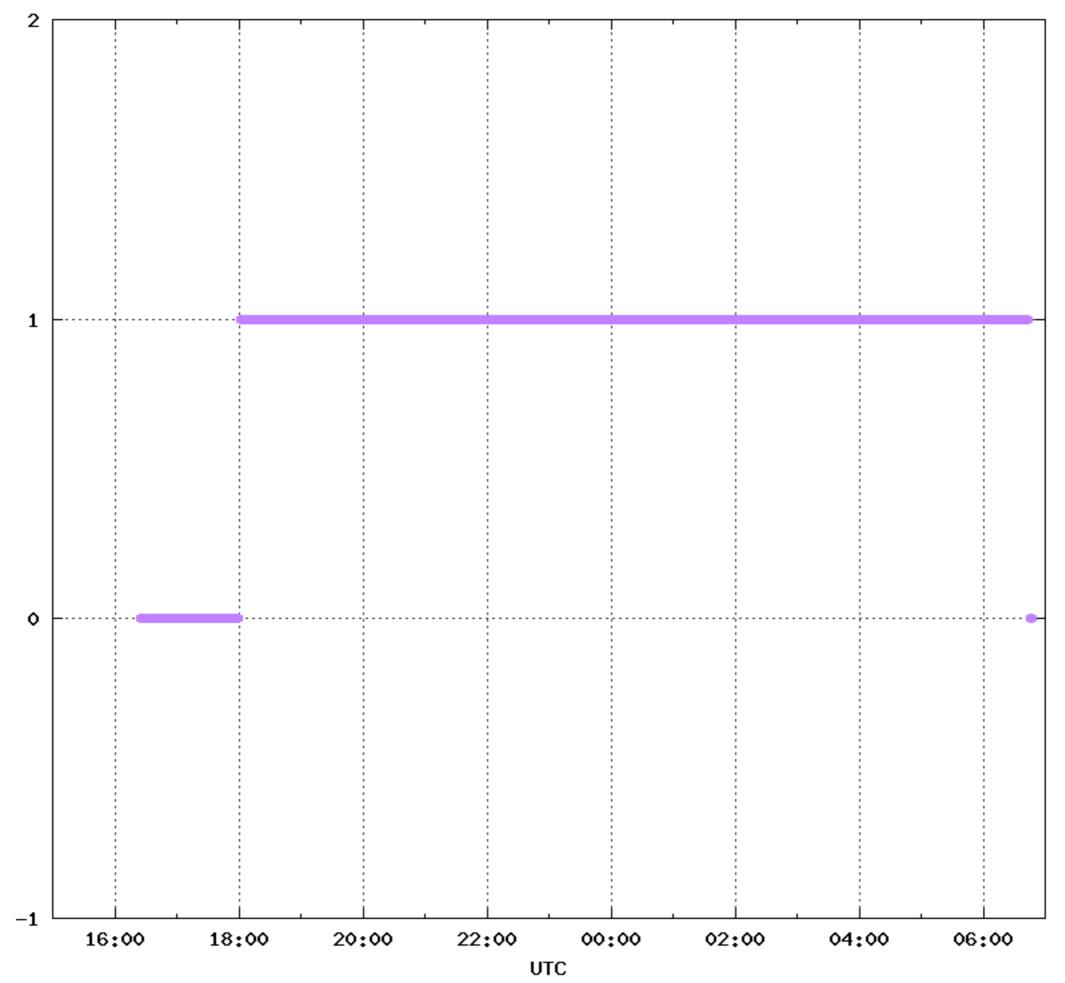


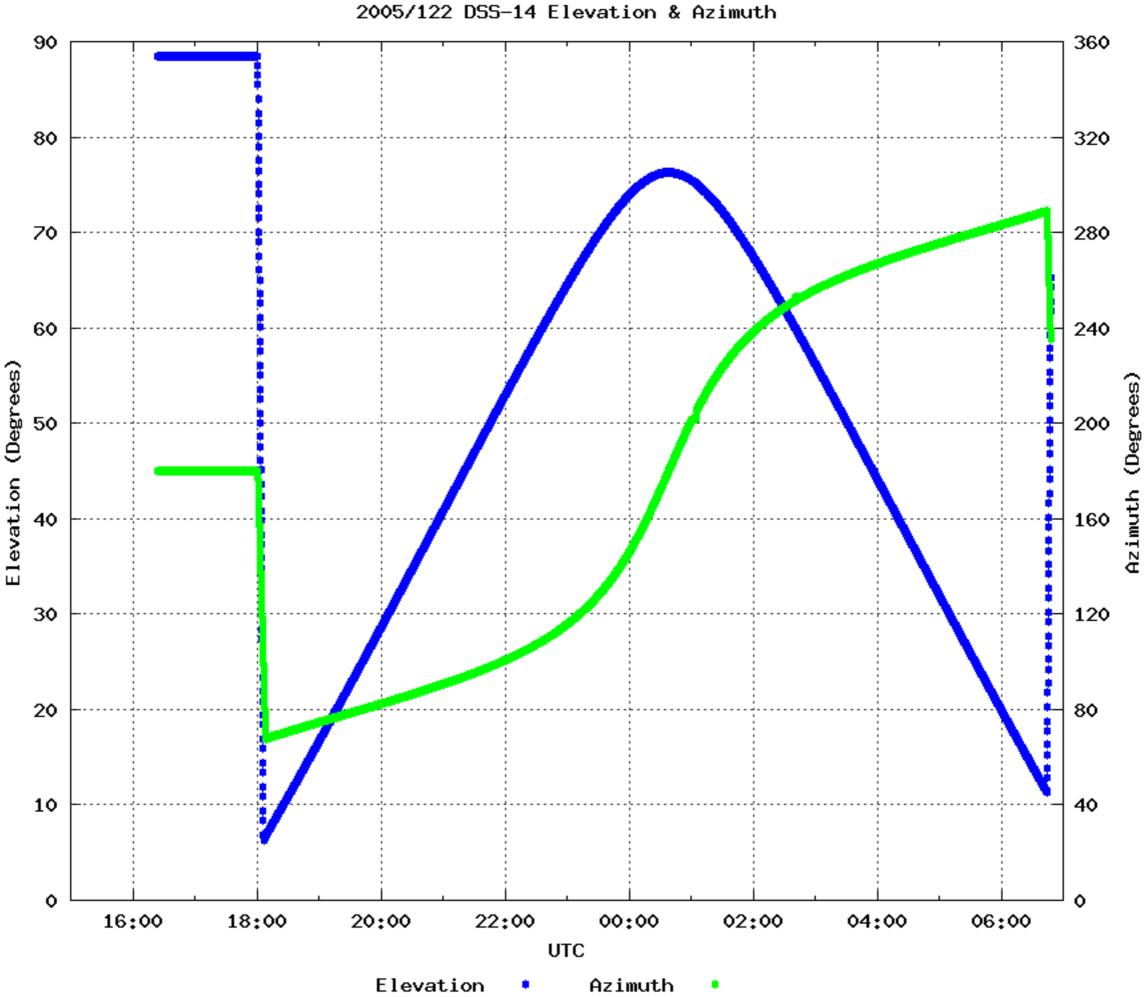
2005/122 DSS-14 Carrier Power to Noise Spectral Density Ratio and System Noise Temperature



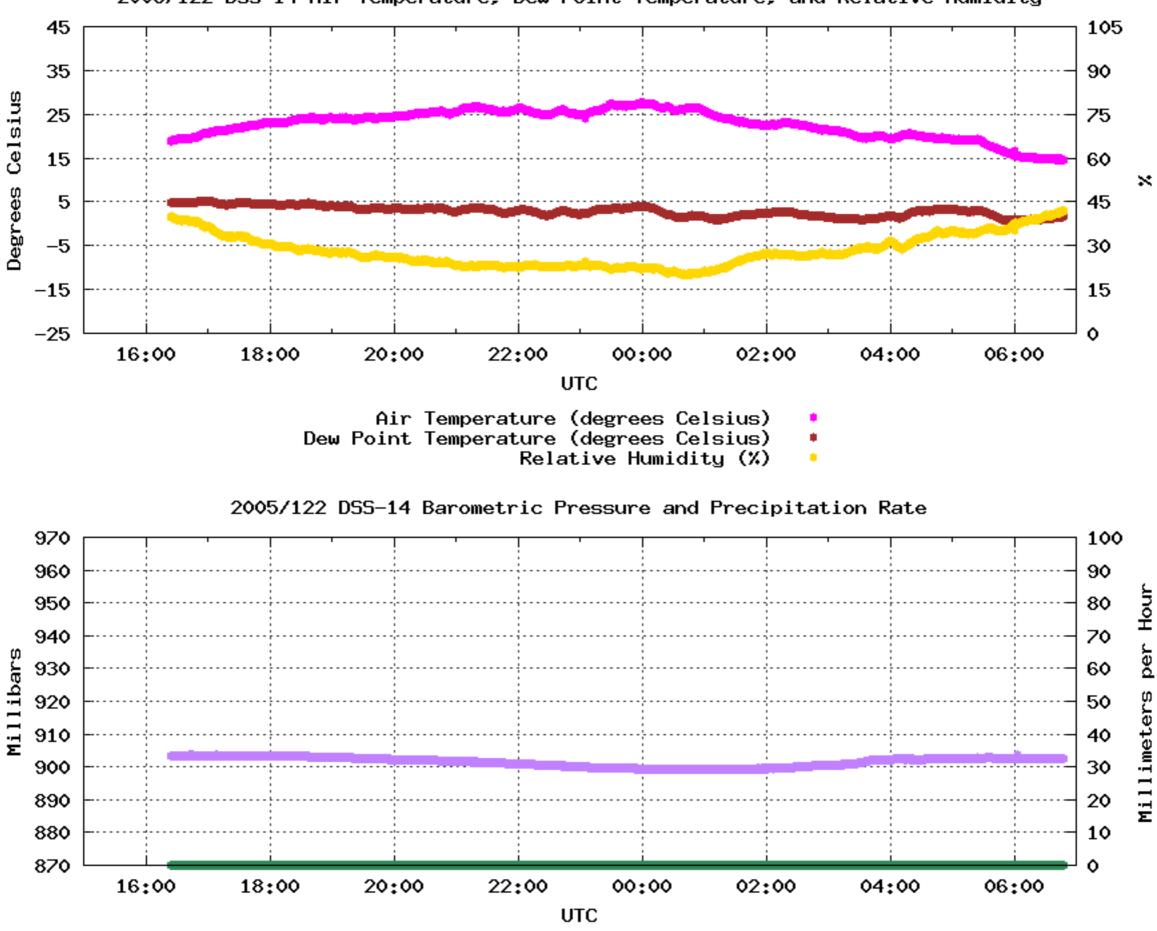
2005/122 DSS-14 Carrier Loop Tracking Bandwidth

# 2005/122 DSS-14 Subreflector Tracking Status (Tracking = 1; Not Tracking = 0)

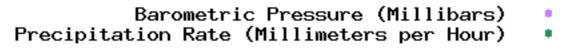




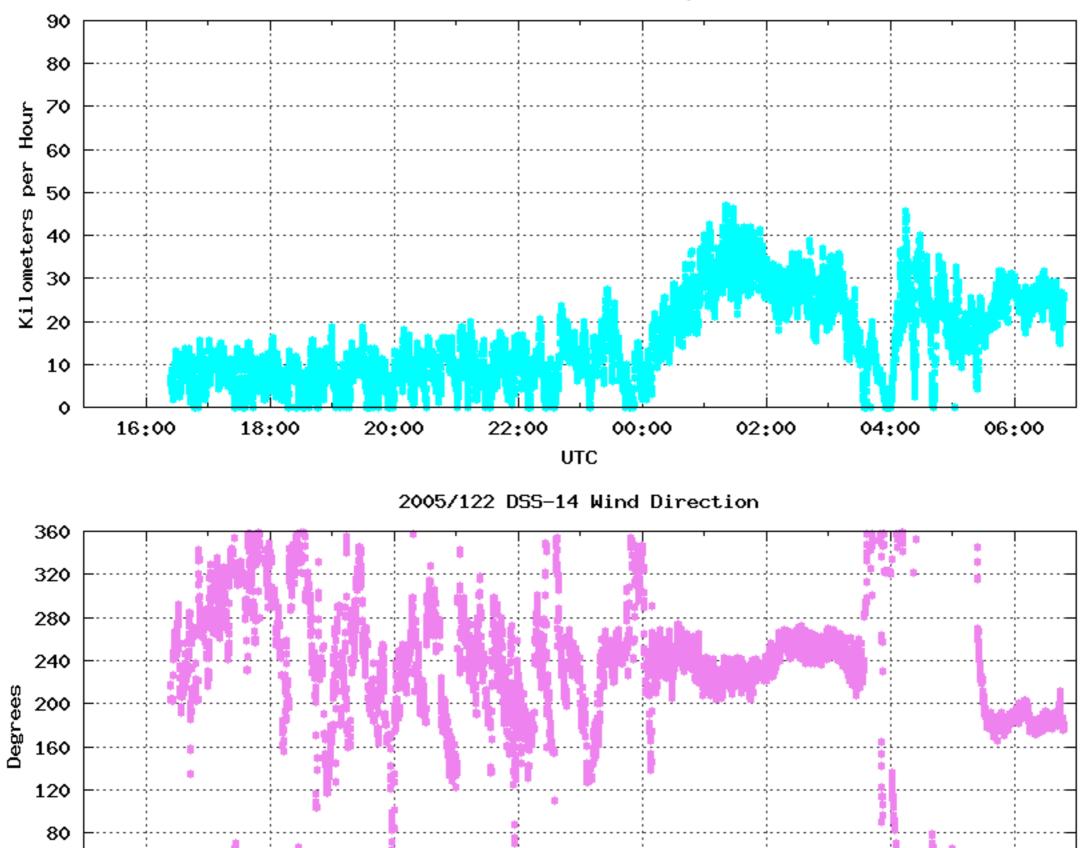








2005/122 DSS-14 Wind Speed





00:00

02:00

04:00

06:00

22:00

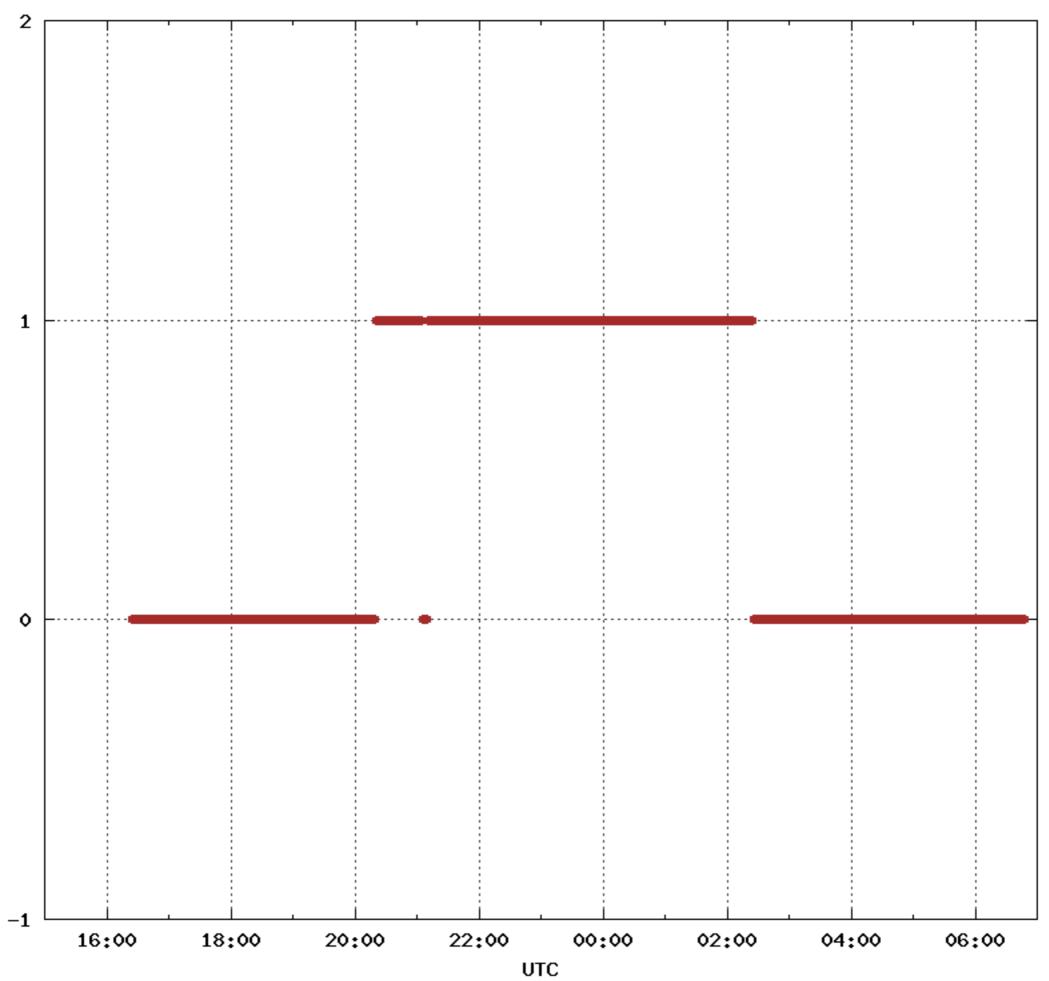
40

0

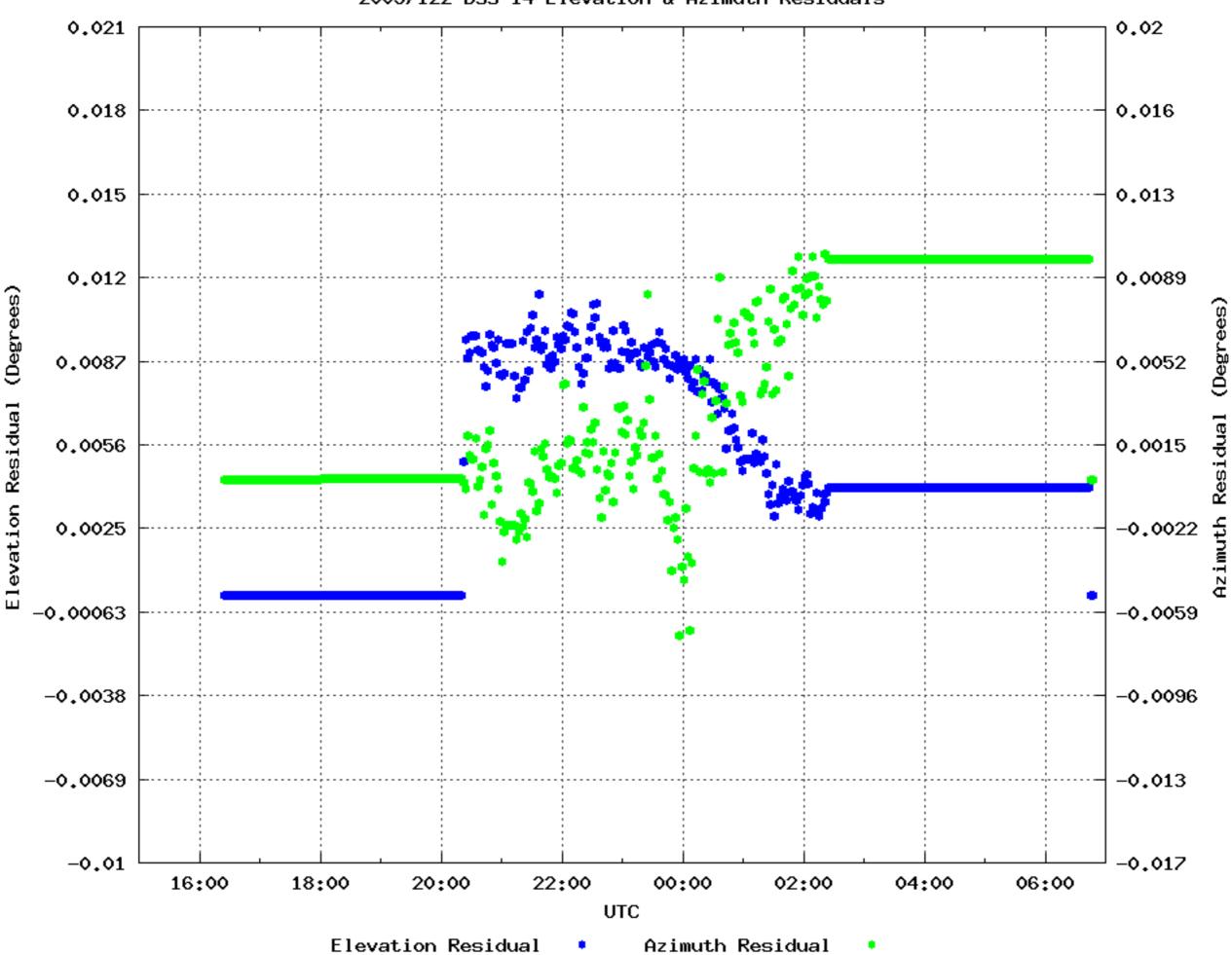
16:00

18:00

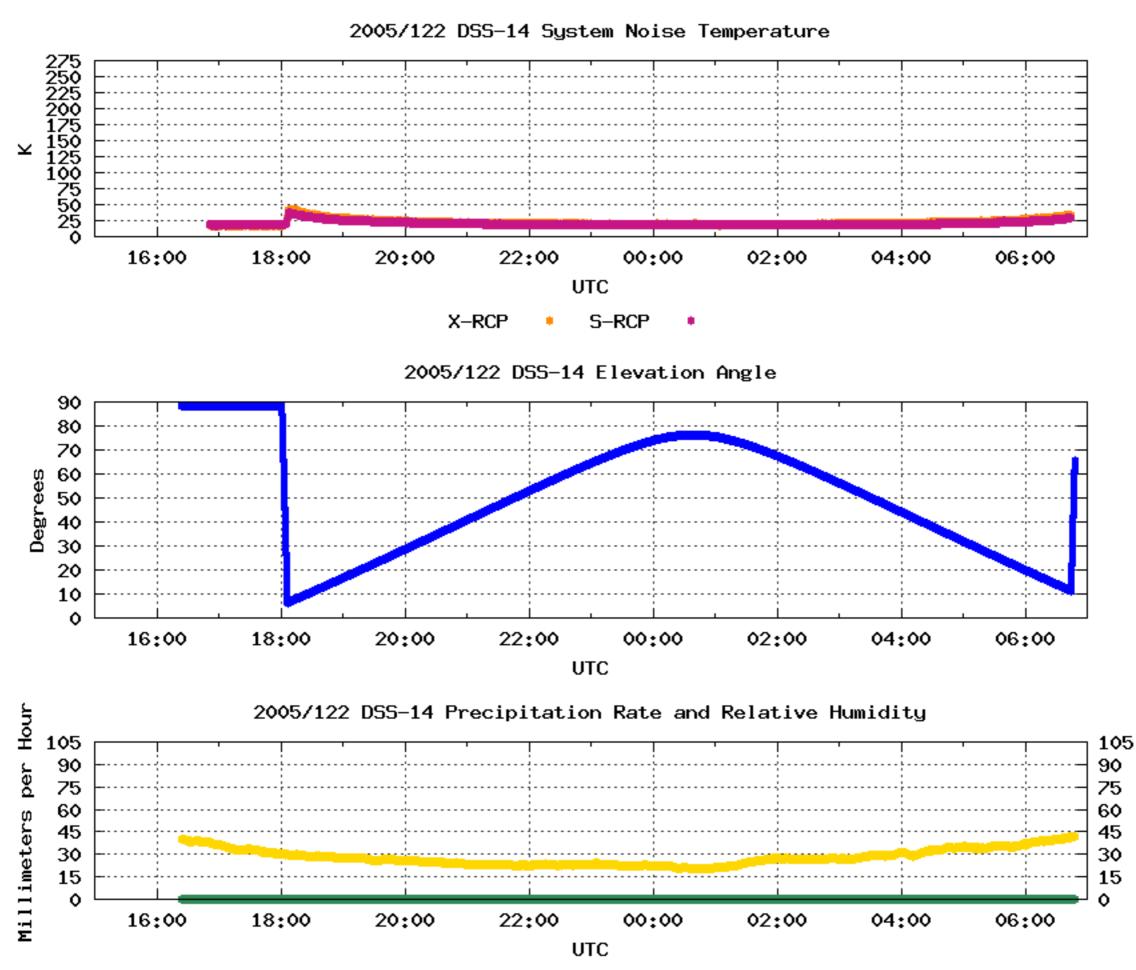
20:00



2005/122 DSS-14 Conscan Drive Status (ON = 1; OFF = 0)



2005/122 DSS-14 Elevation & Azimuth Residuals



Precipitation Rate (Millimeters per Hour) Relative Humidity (%)  $\times$ 

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)