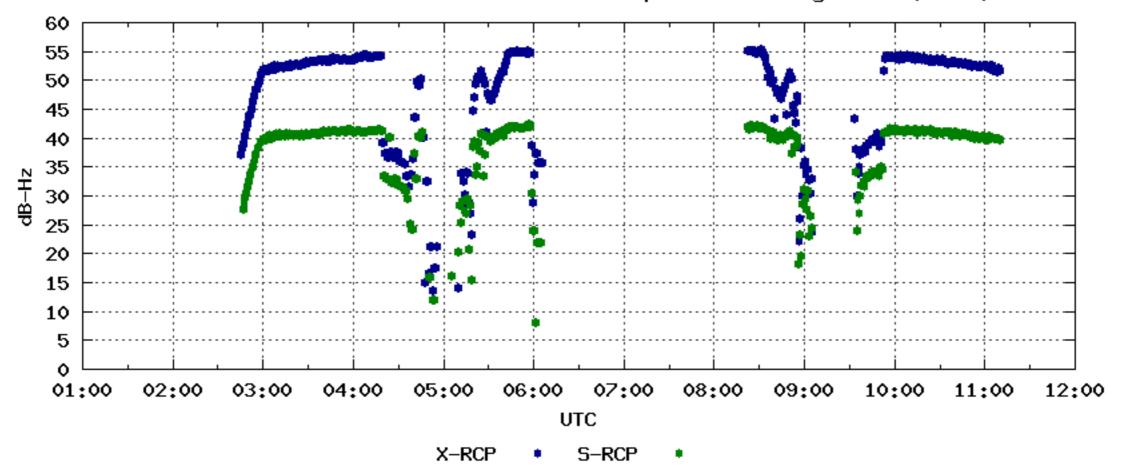
Spacecraft: Cassini

DSS: 43

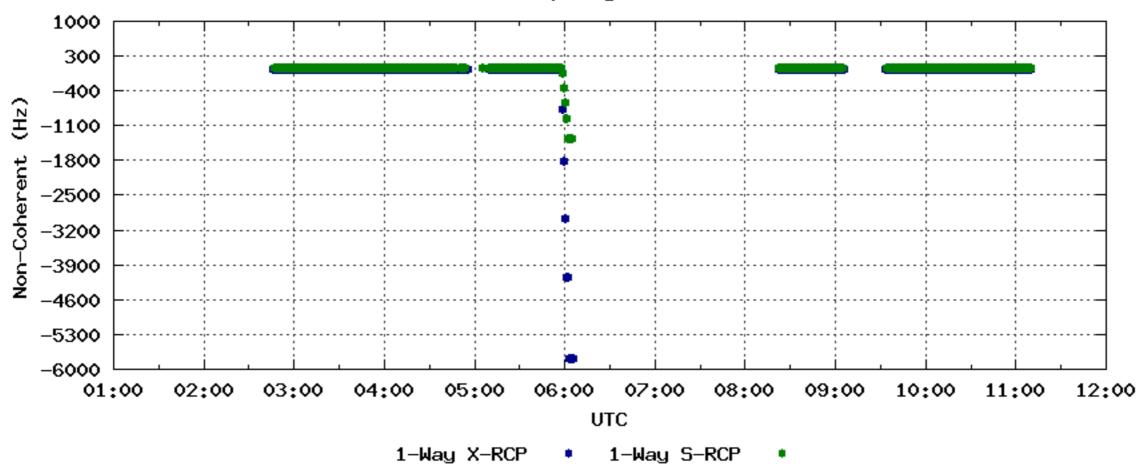
Monitor File: S10SROC2005_123_0115_43_MON.ecsv APPLICABLE_START_TIME = 2005-123T01:15:36.549; APPLICABLE_STOP_TIME = 2005-123T11:15:37.901; 60 minutes omitted from beginning of file 5 minutes omitted from end of file

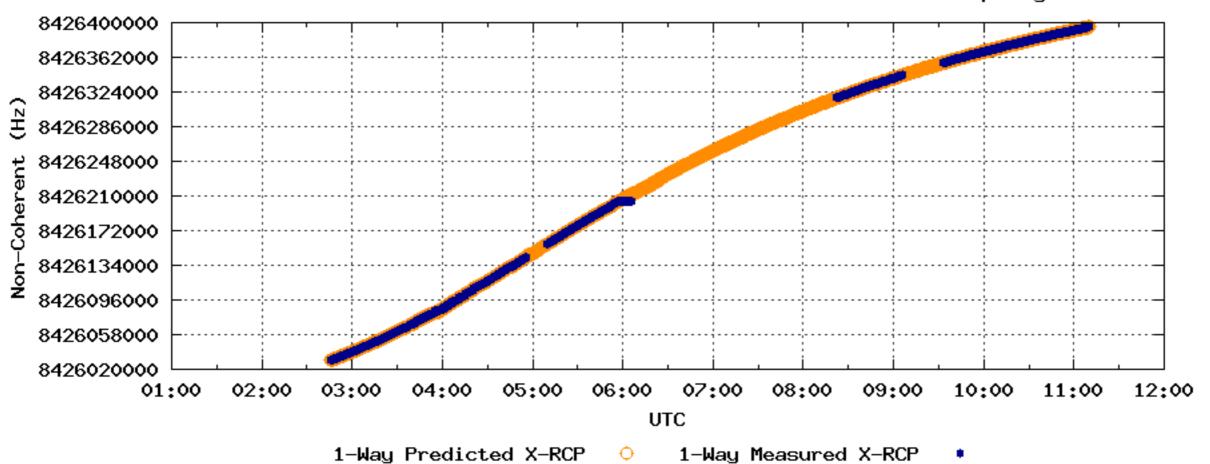
- 02. Carrier Power to Noise Spectral Density Ratio (Pc/No) and Residual Frequency
- 03. X-Band Measured Carrier Frequency, Predicted Carrier Frequency, and Residual Frequency
- 04. S-Band Measured Carrier Frequency, Predicted Carrier Frequency, and Residual Frequency
- 05. Uplink Frequency and Power
- 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. Conscan Drive Status
- 10. System Noise Temperature, Elevation, Precipitation Rate, and Relative Humidity
- 11. Index

2005/123 DSS-43 Carrier Power to Noise Spectral Density Ratio (Pc/No)



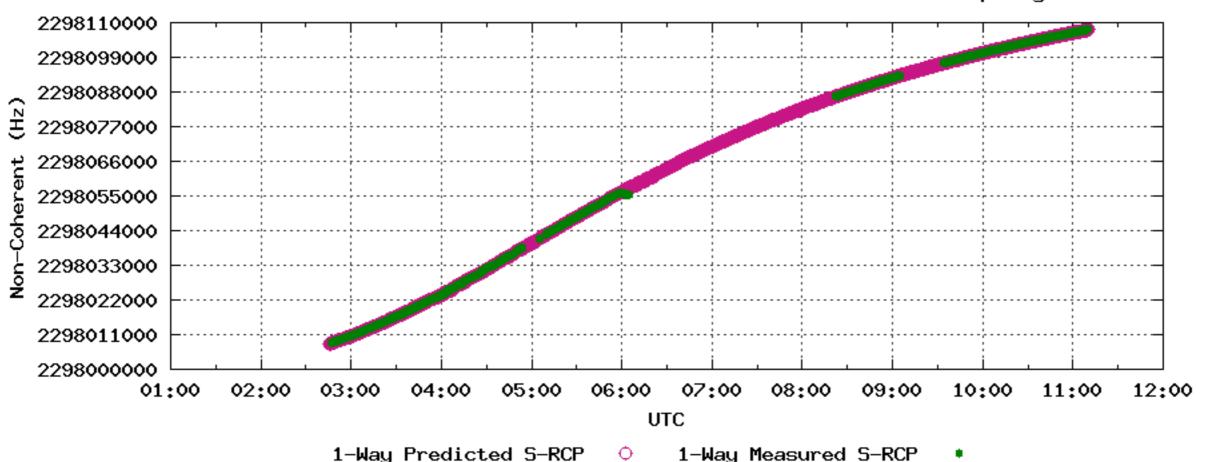
2005/123 DSS-43 Carrier Frequency Residual (Measured - Predicted)



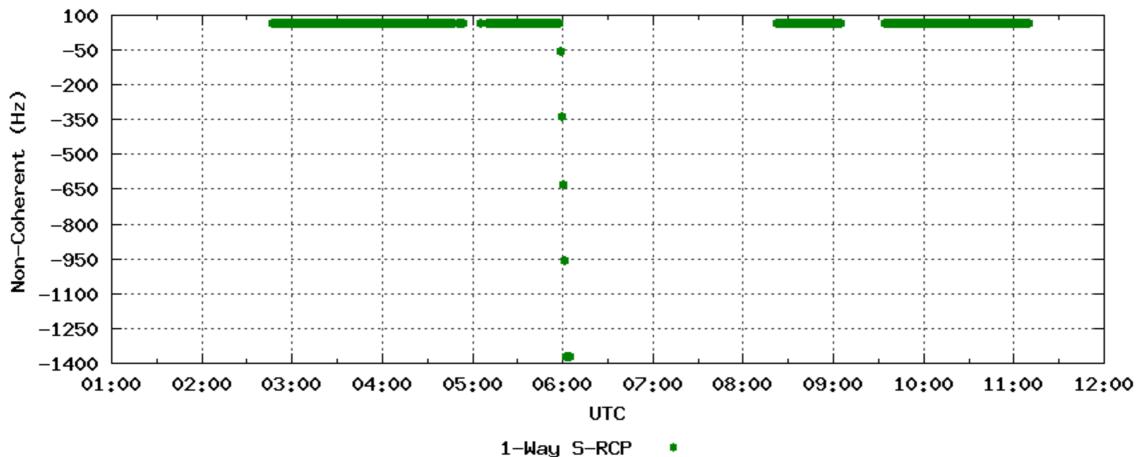


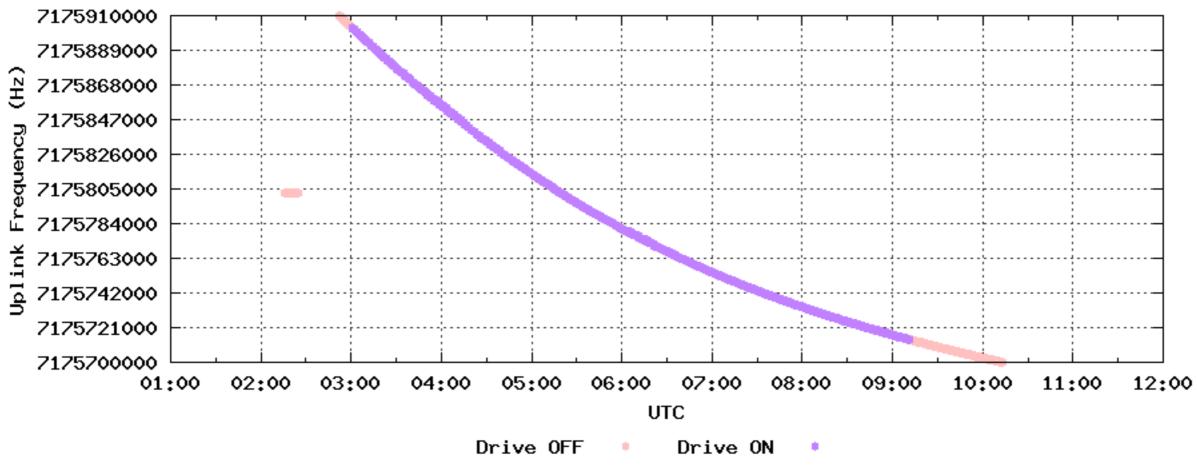
2005/123 DSS-43 X-Band Residual Frequency (Measured - Predicted) 100 -490 -1080 (Hz) -1670 Non-Coherent -2260 -2850 -3440 -4030 -4620 -5210 -5800 05:00 06:00 07:00 08:00 01:00 02:00 03:00 04:00 09:00 10:00 11:00 12:00 UTC

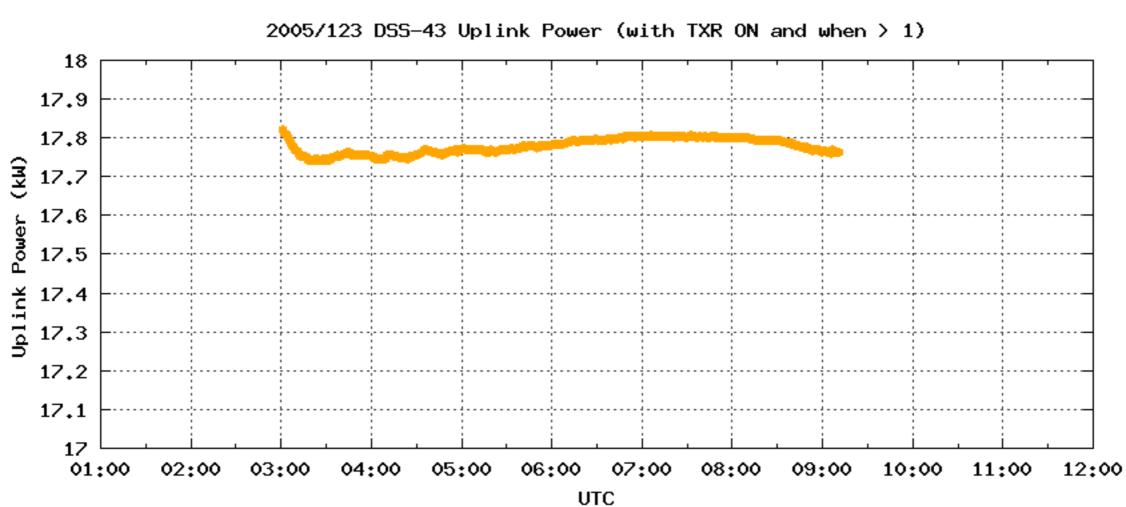
1-Way X-RCP

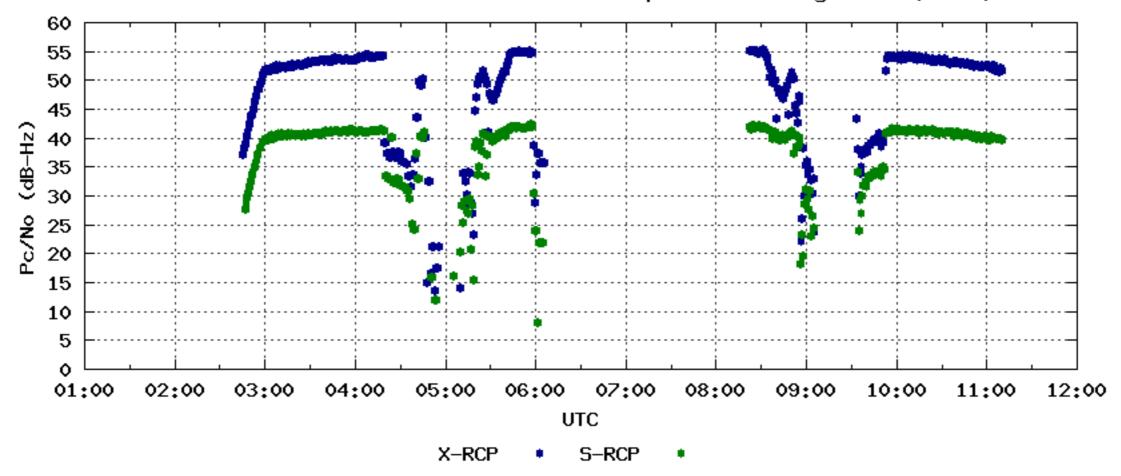


2005/123 DSS-43 S-Band Residual Frequency (Measured - Predicted)

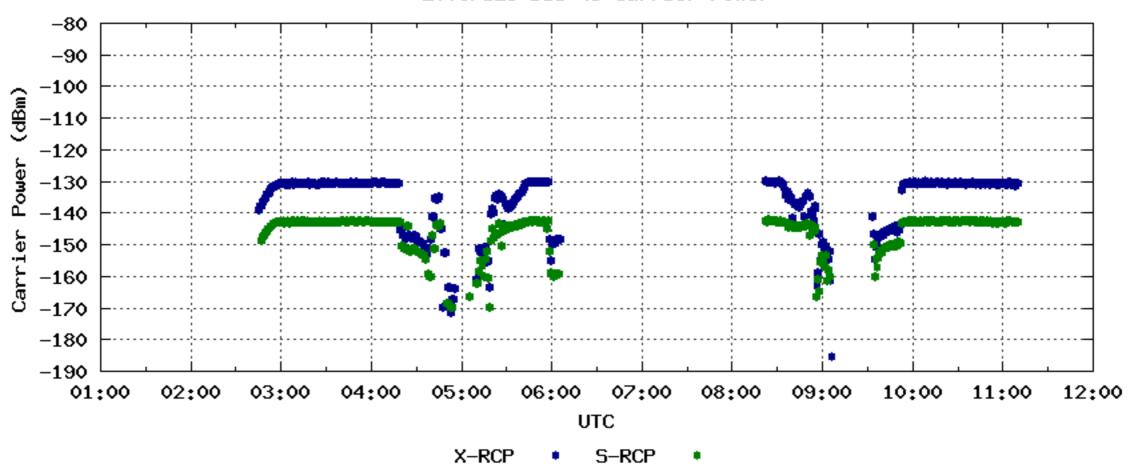


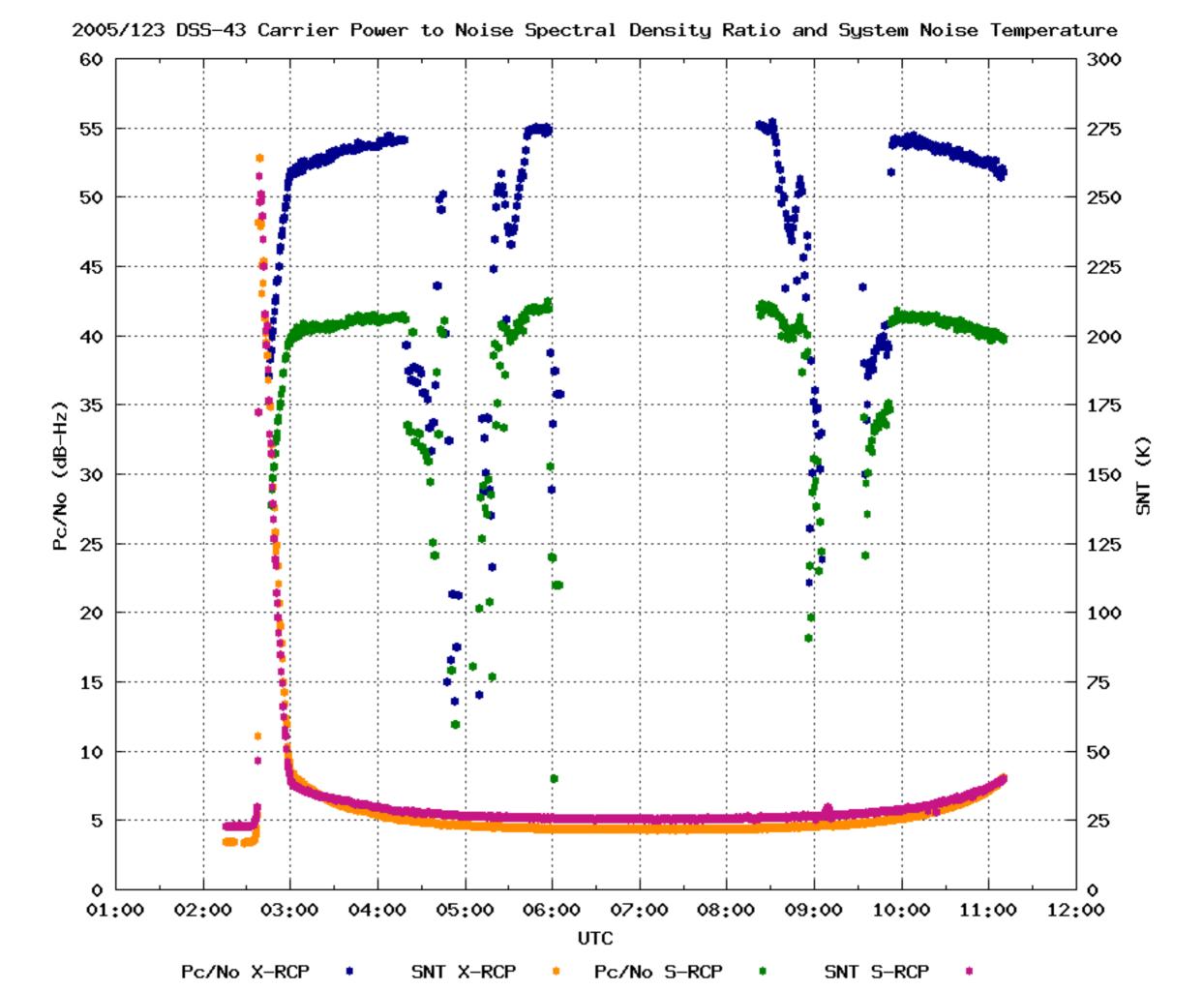


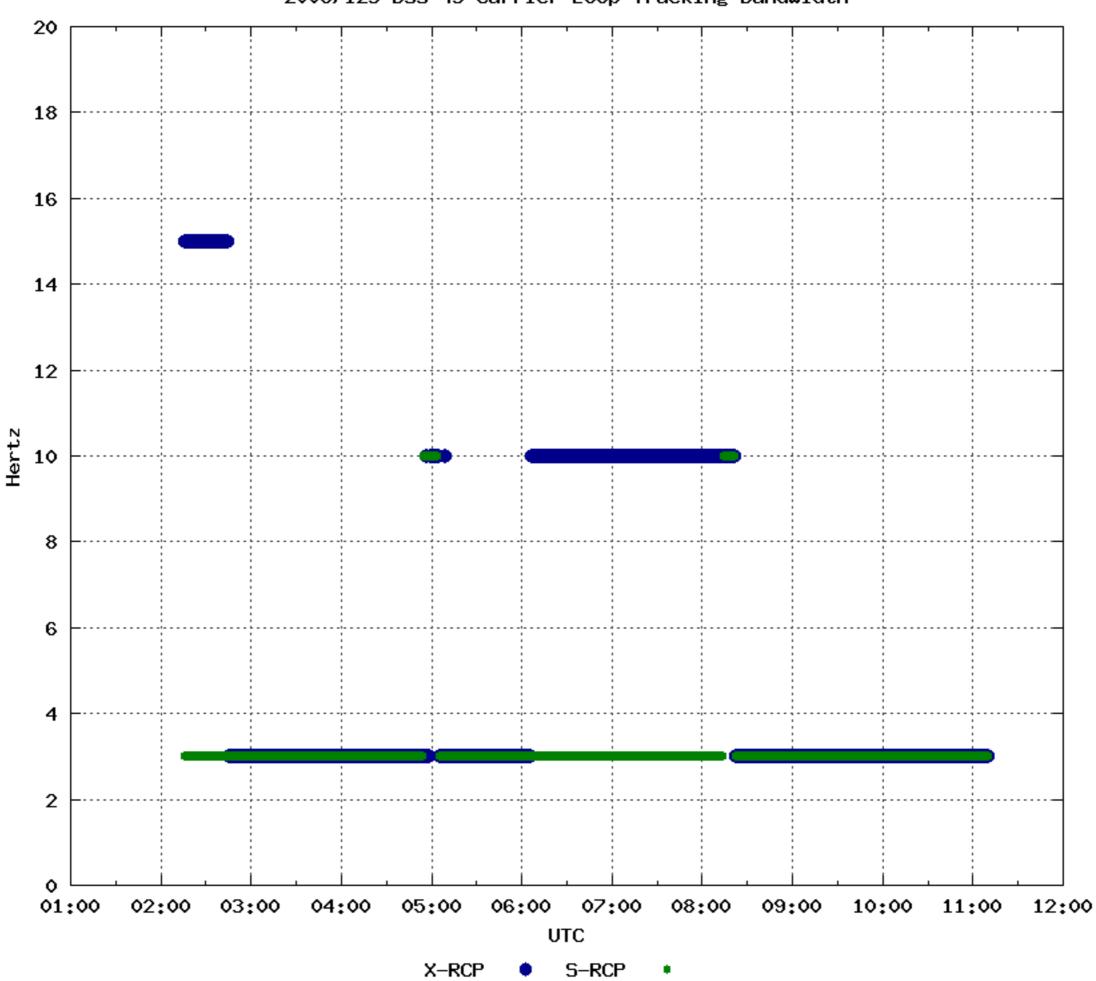


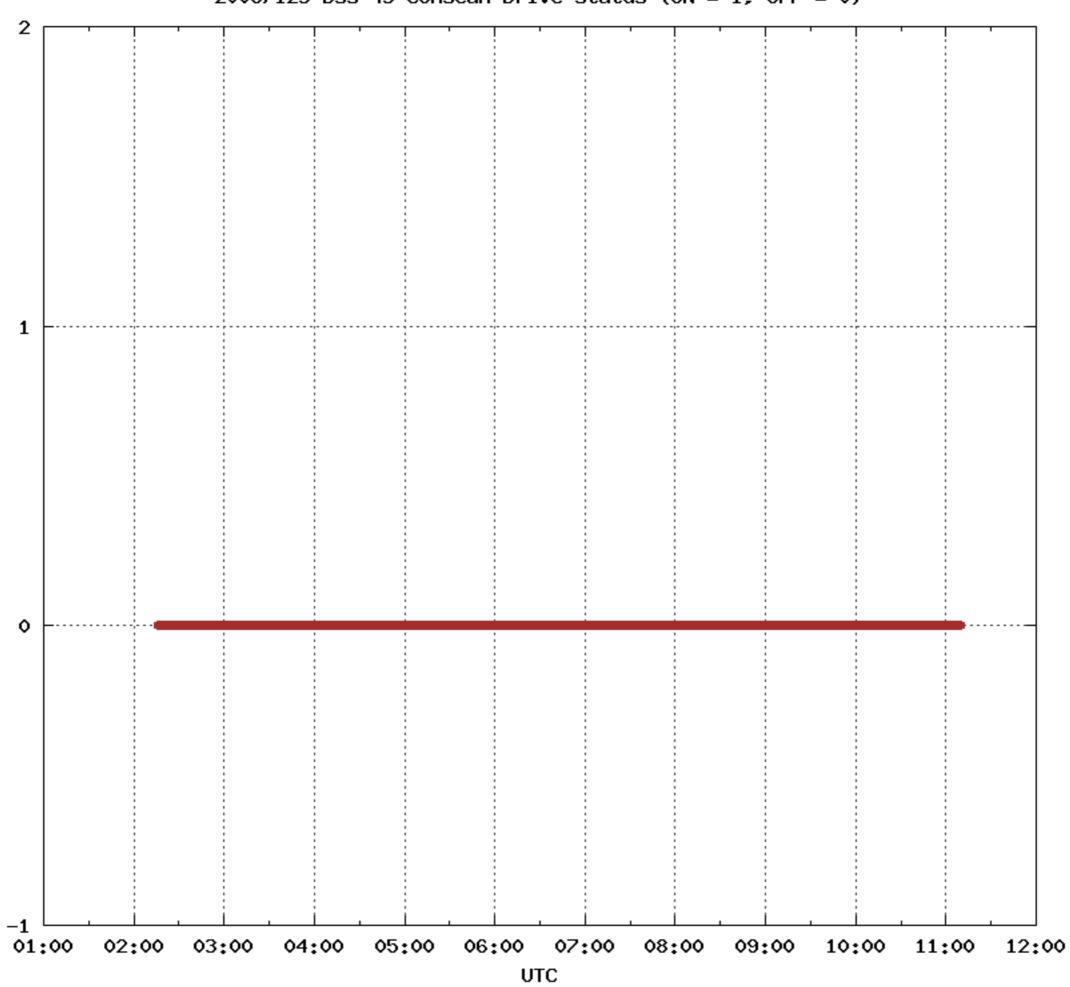


2005/123 DSS-43 Carrier Power

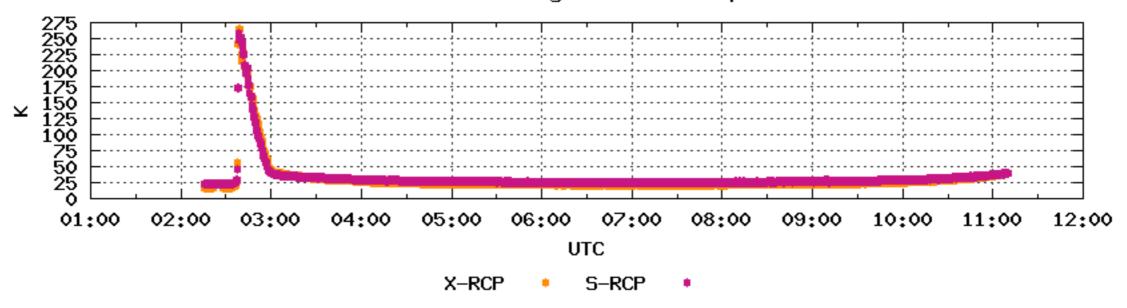








2005/123 DSS-43 System Noise Temperature



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. Conscan Drive Status

Conscan Drive Status (M-0308)

10. 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)