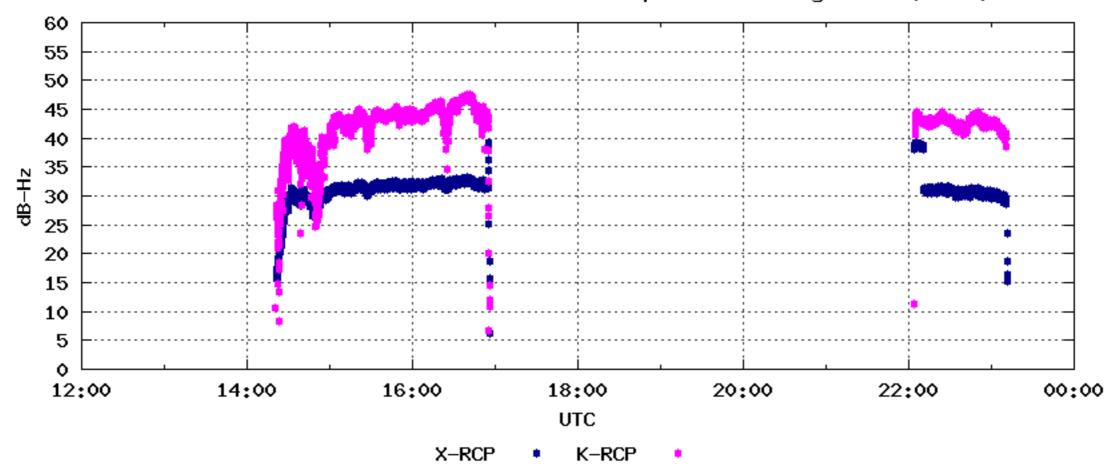
Spacecraft: Cassini

DSS: 34

Monitor File: S16RHGF2005_330_1243_34_MON.ecsv APPLICABLE_START_TIME = 2005-330T12:43:39.304; APPLICABLE_STOP_TIME = 2005-330T23:23:38.309; 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. Ka-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
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2005/330 DSS-34 Carrier Power to Noise Spectral Density Ratio (Pc/No)



2005/330 DSS-34 Carrier Frequency Residual (Measured - Predicted) 1000 20 900 8 800 (Hz) (Hz) 700 -16Non-Coherent 600 -28 Coherent 500 -40 -52 400 300 -64 200 -76 -88 100 -100 16:00 12:00 14:00 18:00 20:00 22:00 00:00 UTC

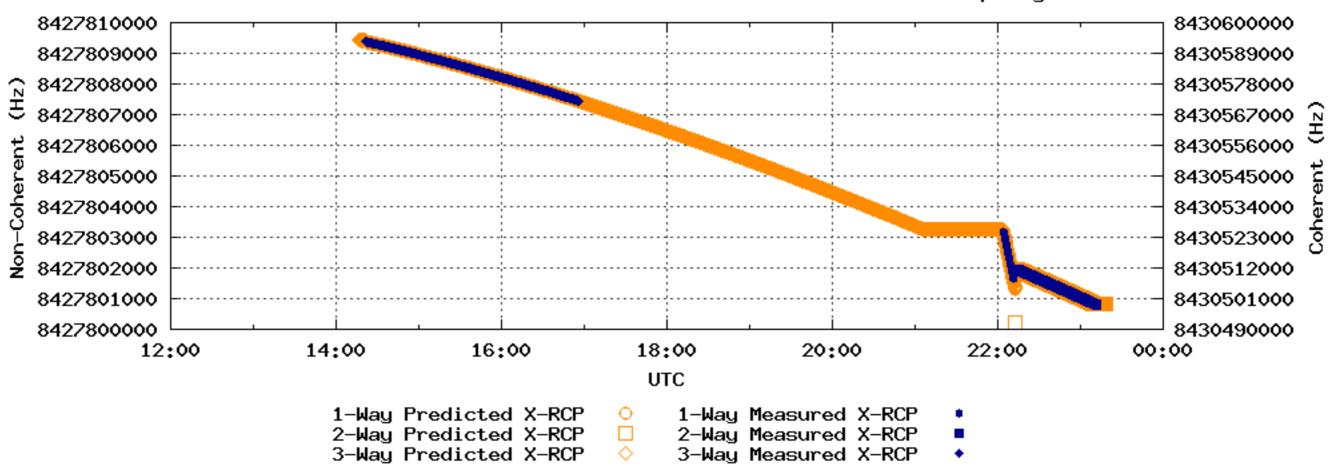
3-Way X-RCP

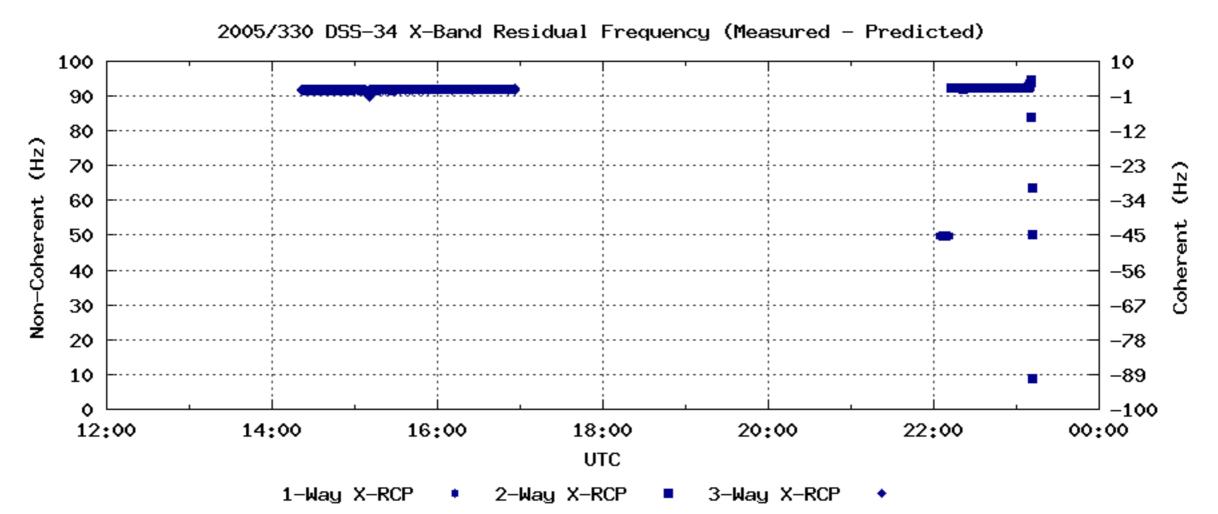
1-Way K-RCP

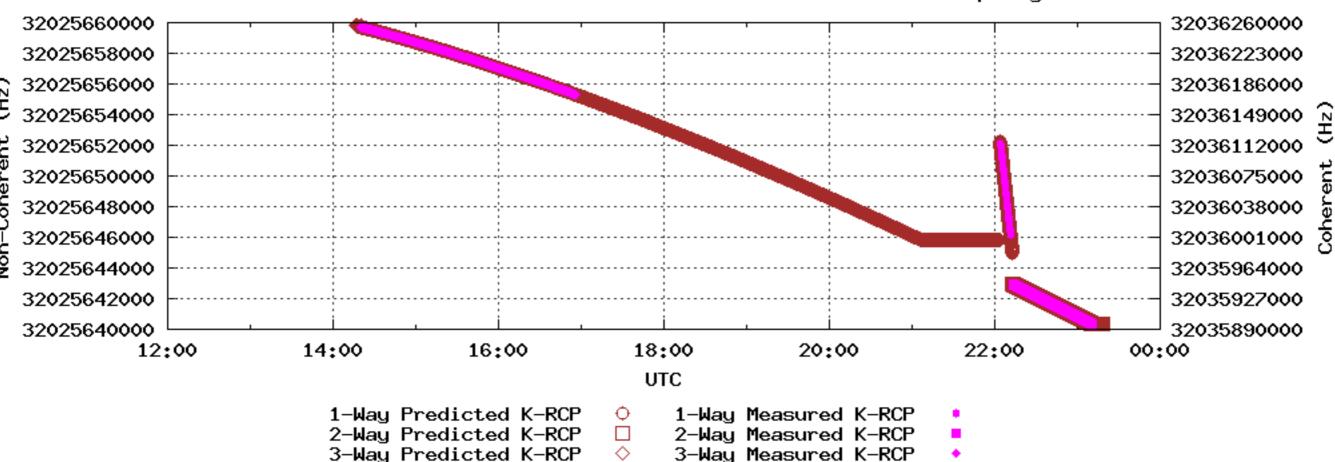
3-Way K-RCP

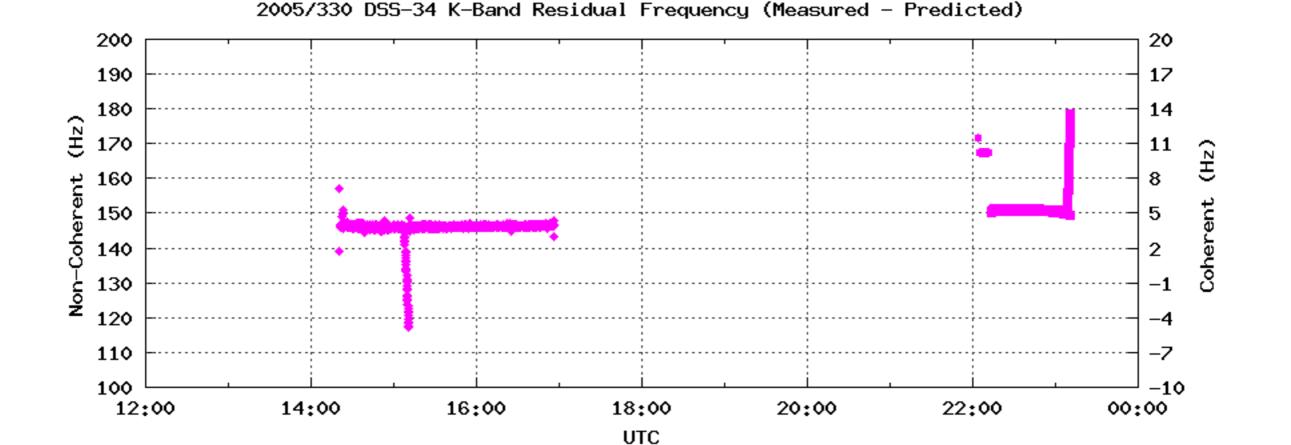
1-Way X-RCP

2-Way X-RCP





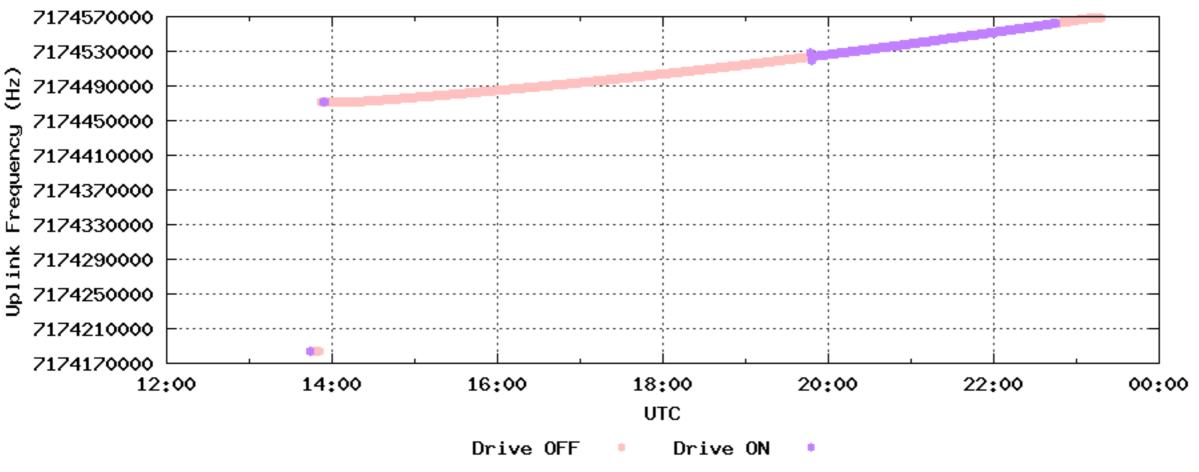


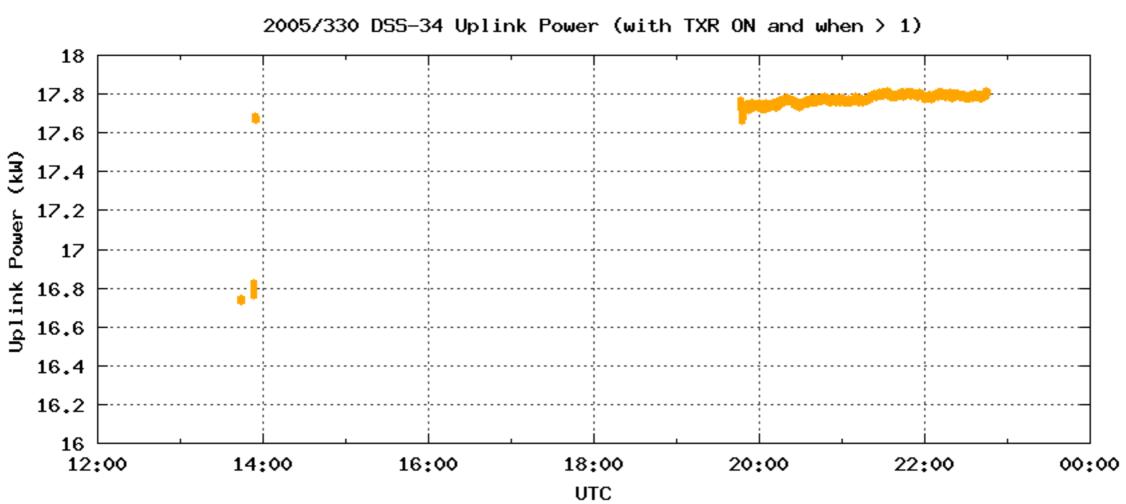


2-Way K-RCP

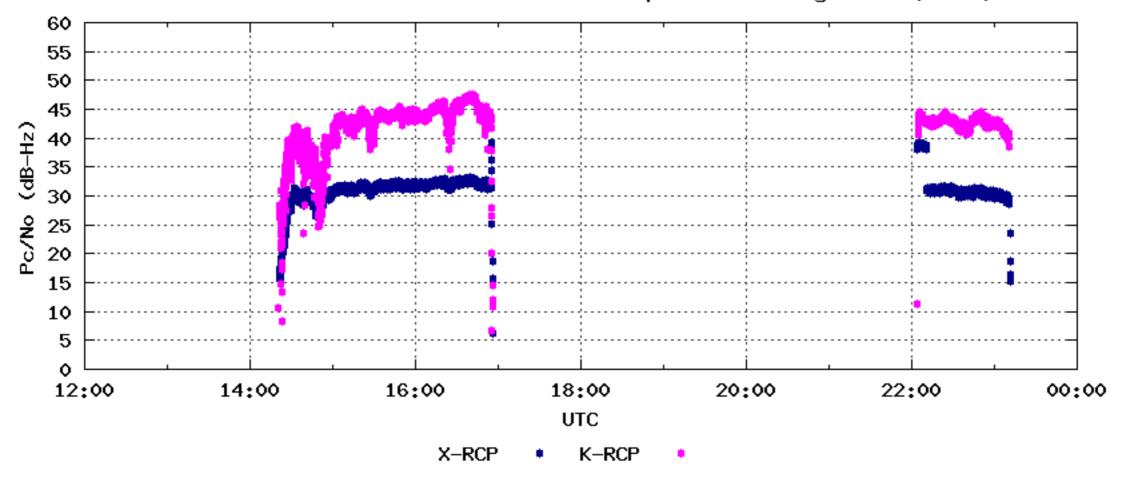
3-Way K-RCP

1-Way K-RCP

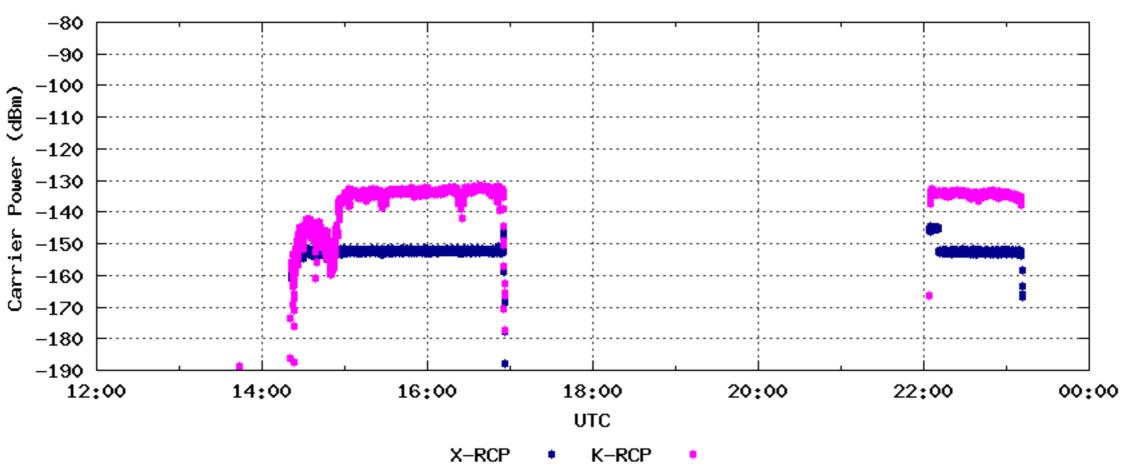


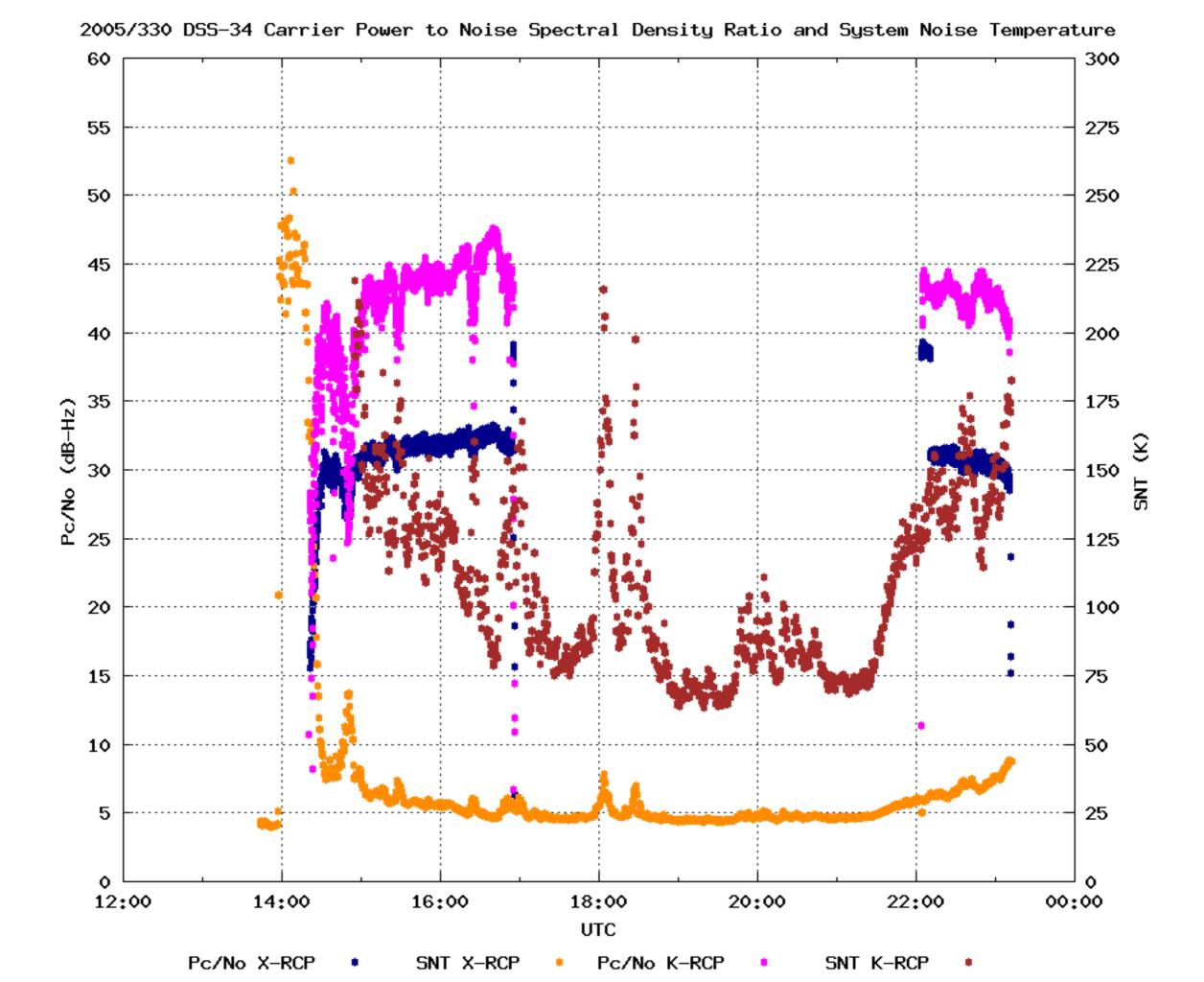


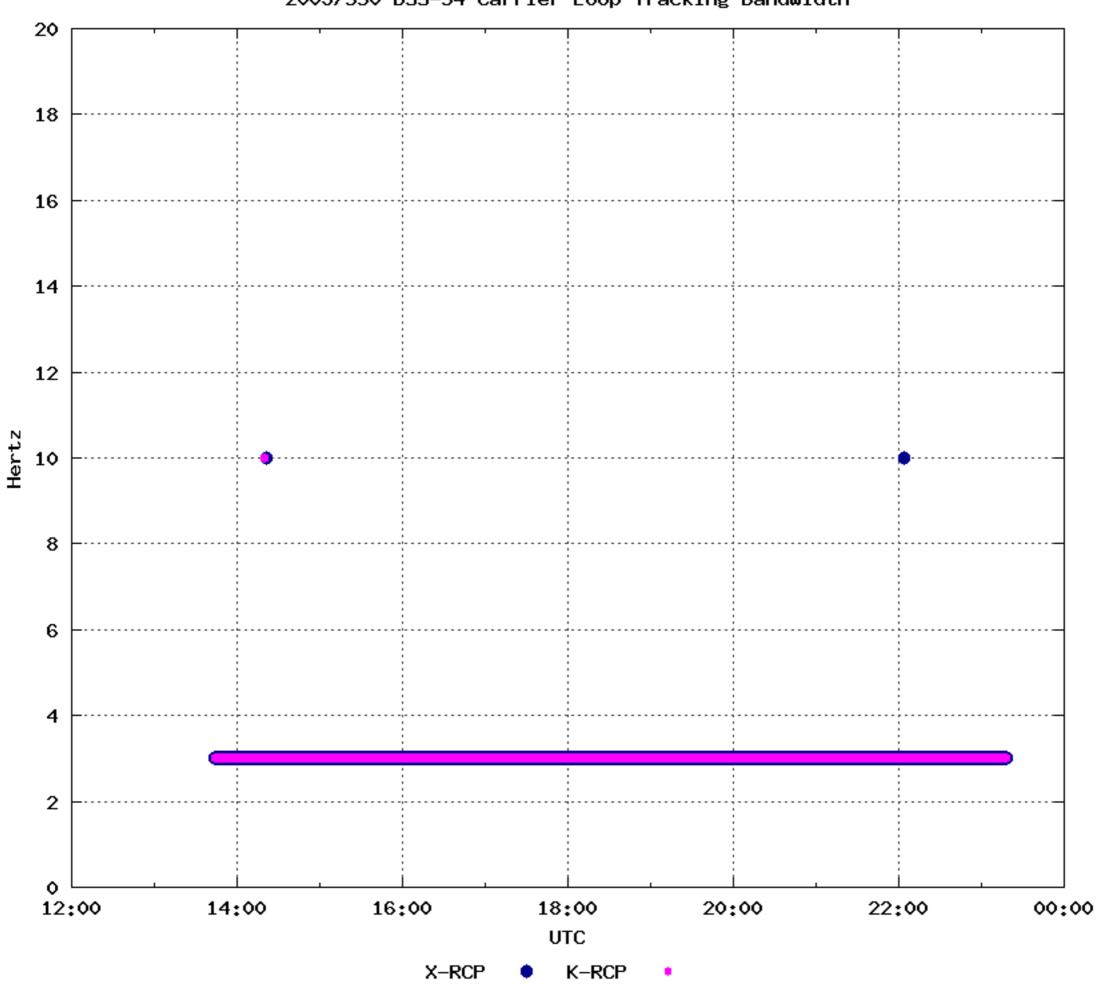
2005/330 DSS-34 Carrier Power to Noise Spectral Density Ratio (Pc/No)

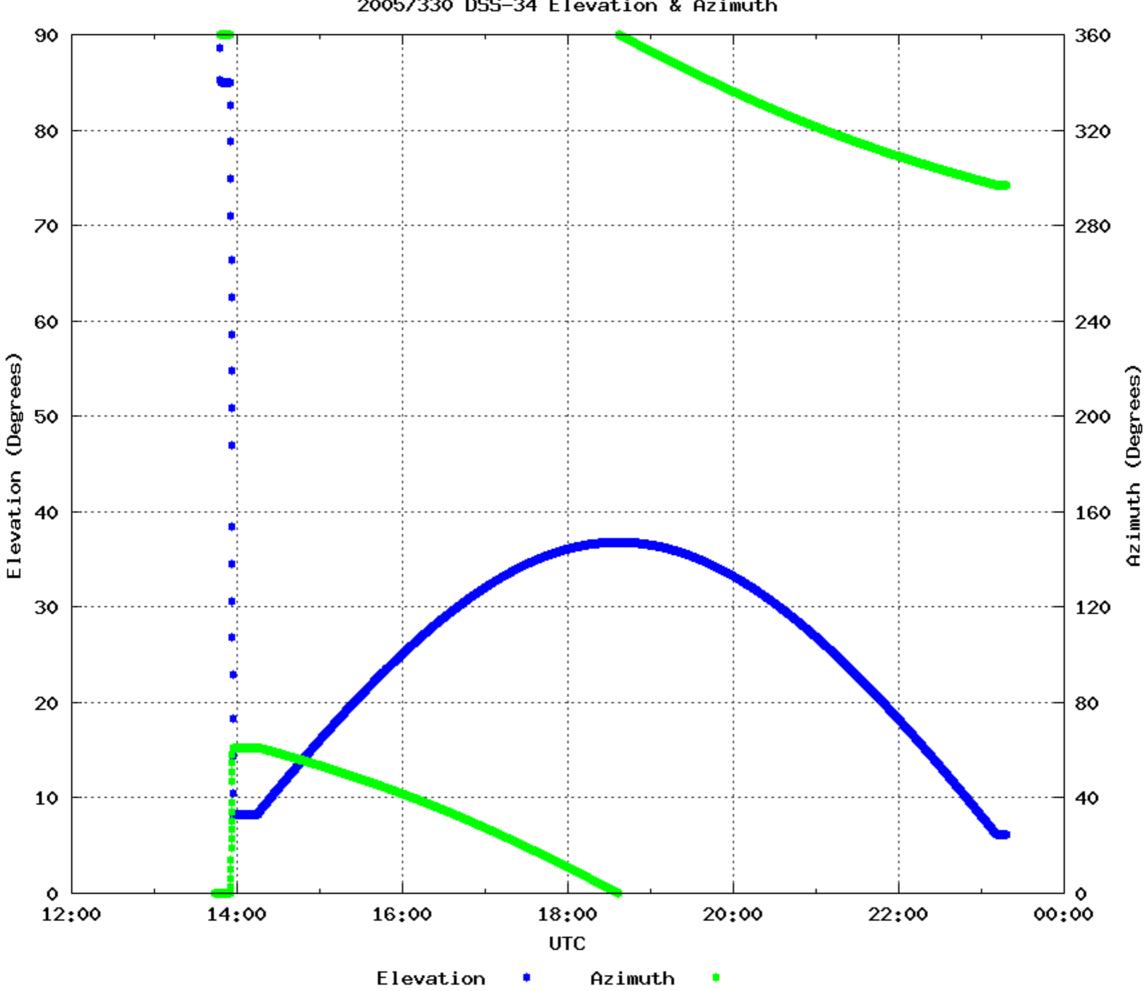


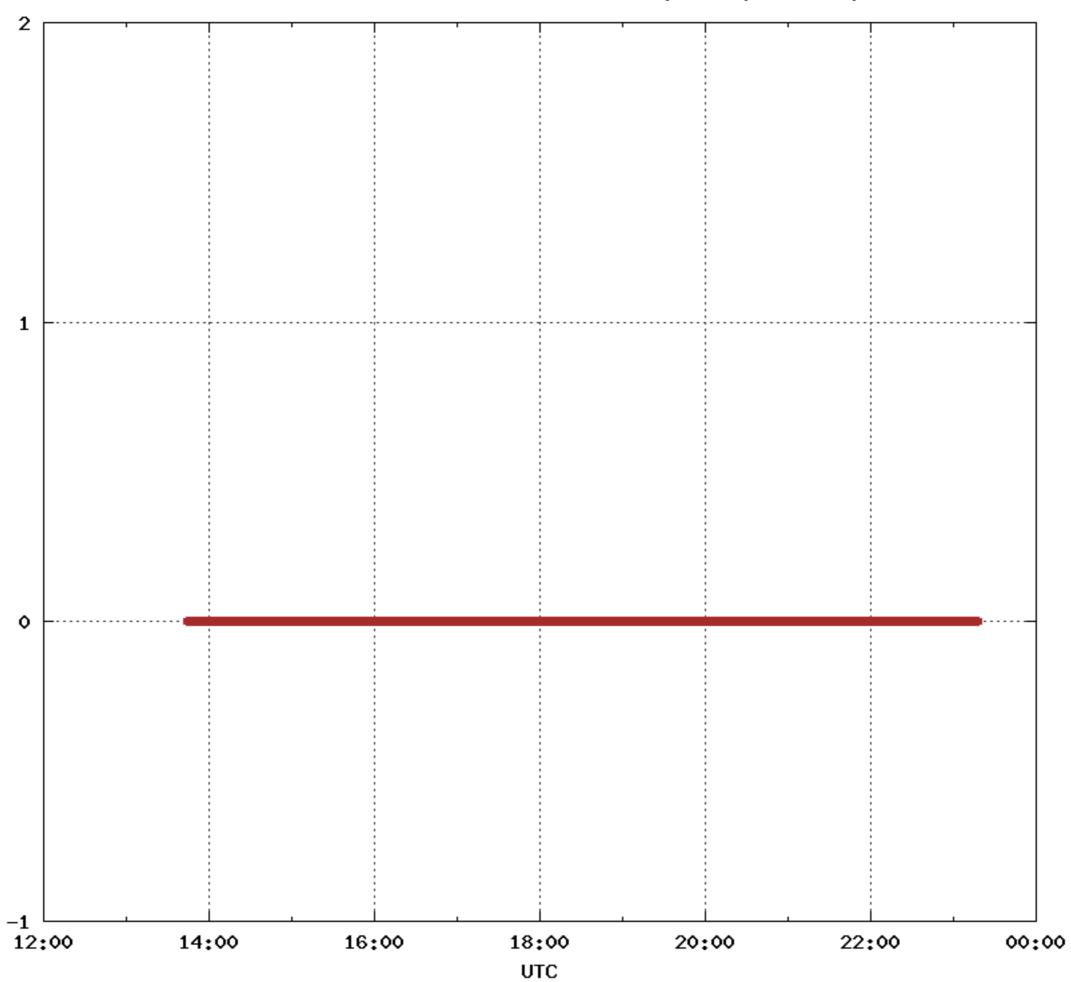


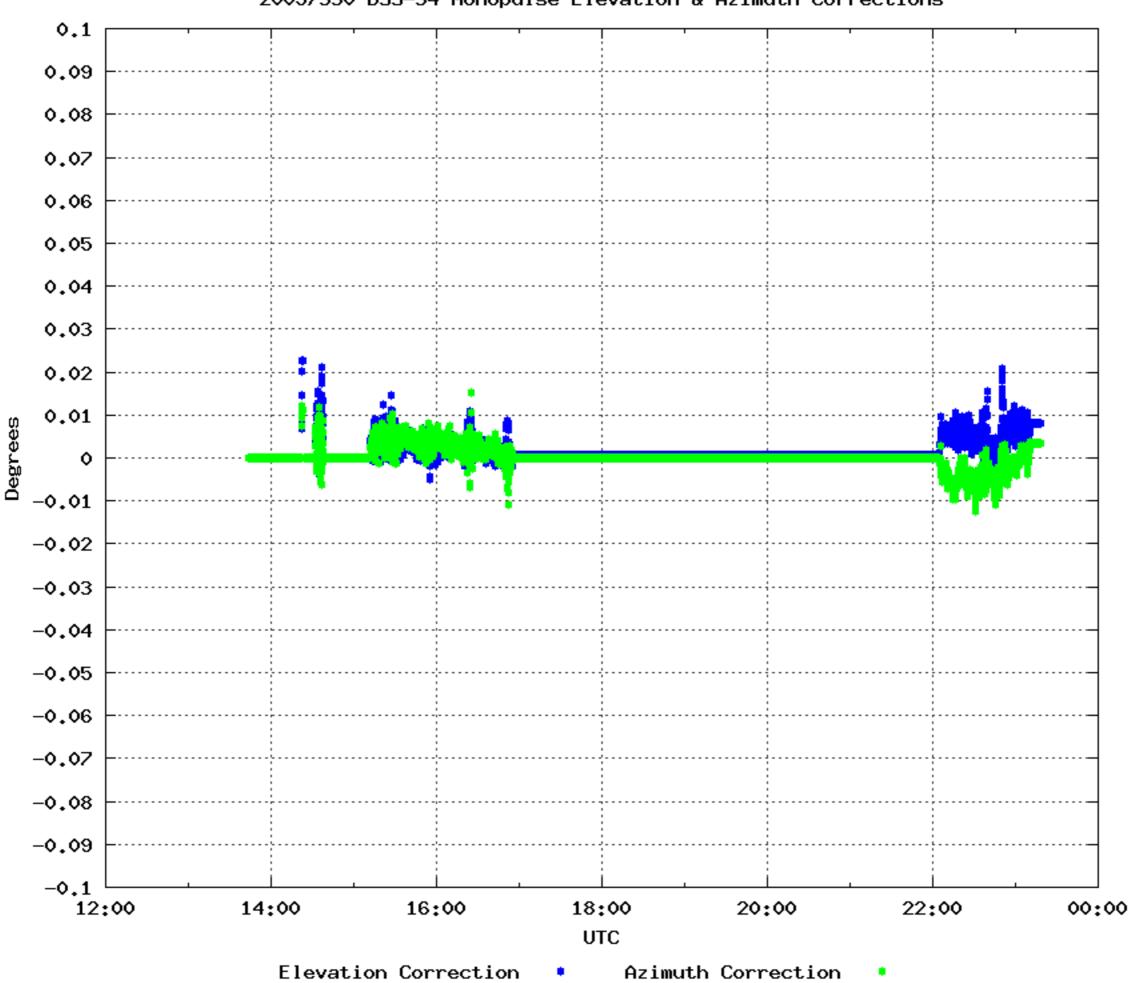


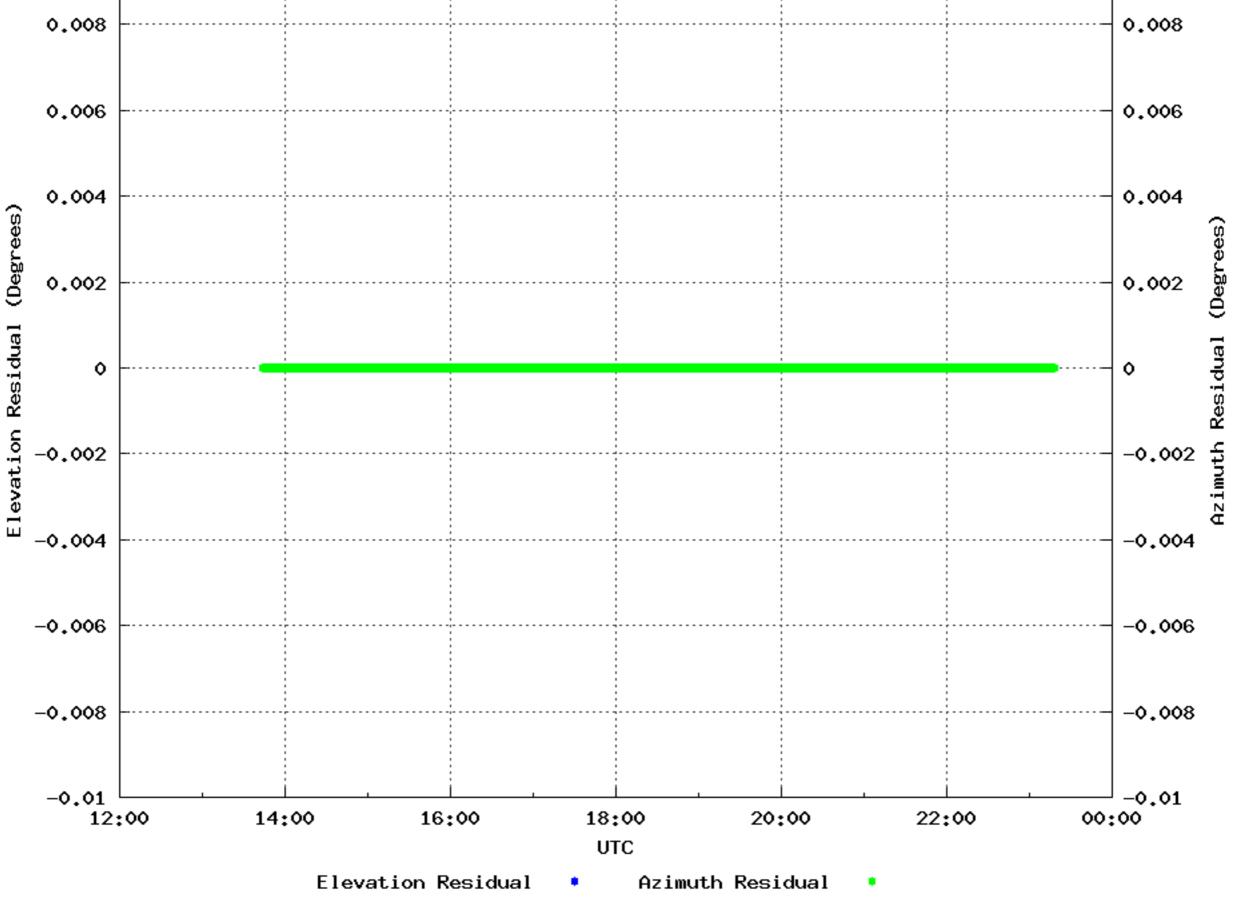






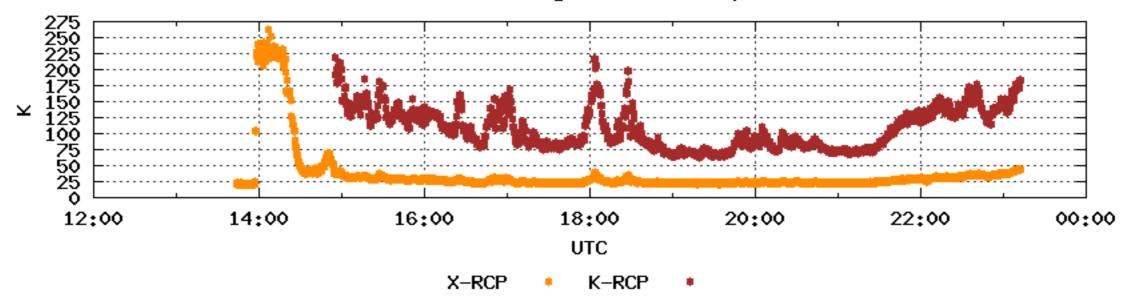




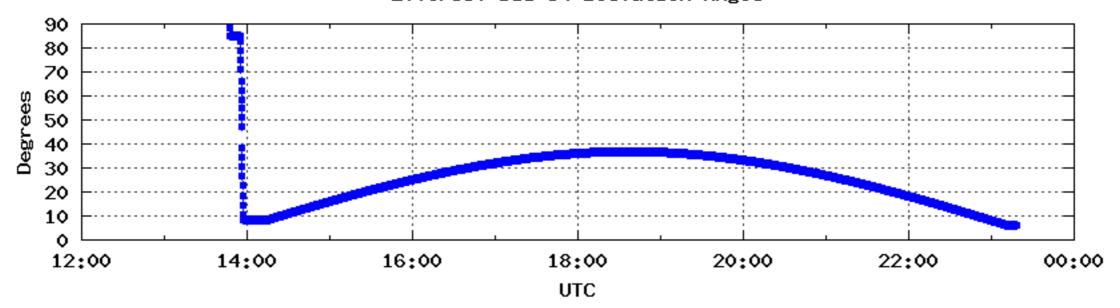


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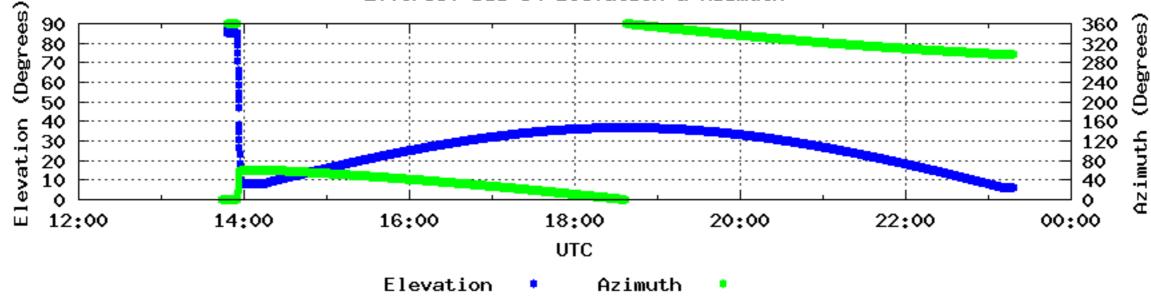
2005/330 DSS-34 System Noise Temperature



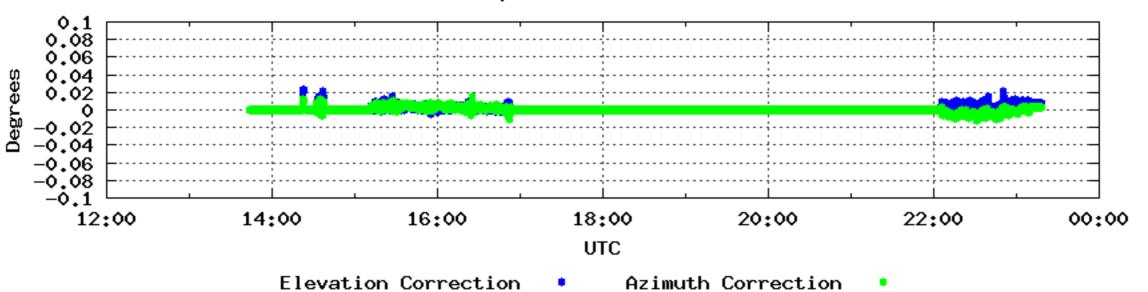
2005/330 DSS-34 Elevation Angle



2005/330 DSS-34 Elevation & Azimuth



2005/330 DSS-34 Monopulse Elevation & Azimuth Corrections



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. Ka-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)

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. Azimuth & Elevation Elevation Angle (M-0304) Azimuth Angle (M-0305)
- 10. Conscan Drive Status

Conscan Drive Status (M-0308)

11. Azimuth & Elevation Monopulse Corrections

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Elevation Corrections (M-0815)
Azimuth Corrections (M-0814)
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12. Azimuth & Elevation Residuals

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

13. 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)

14. Elevation & Azimuth, Elevation & Azimuth Corrections, and Wind Speed and Direction

Top:

Elevation Angle (M-0304) Azimuth Angle (M-0305)

Middle:

Elevation Corrections (M-0815) Azimuth Corrections (M-0814)

Bottom:

Wind Speed (M-0388)
Wind Direction (M-0391)