

Buccino, Dustin R (332K)

From: Barbinis, Elias (332K) <elias.barbinis@jpl.nasa.gov>
Sent: Friday, November 08, 2013 8:46 PM
To: rs
Subject: Correction - Cassini SCE10 Report: S81, 2013/312 DSS-34
Attachments: doy312_34k_rcs.png

Cassini DOY 312 DSS-34 SCE10 Report, November 8, 2013

13 312 1945 2115 0615 0630 DSS-34 CAS TP RS199-SCE10 5885 N750 1A1

DSS-34

X -band (DCC 6) and Ka-band (DCC 5)

- Weather: Fine, Wind speed: 25.9 Km/hr
 - Equipment: Green
 - X-band 1-way signals present before BOT
 - Ka-Band 1-way signal present at BOT
 - Bandwidths for X-band: 1, 16, 50, 100 KHz, Record 1 KHz
 - Bandwidths for Ka-Band: 1, 4, 16, 50 KHz, Record 1, 4 KHz during 1-way, 1 KHz during 2-way
 - Ka-Band resid ~ 1105 at 21:16, applied "sfro 1 700"
 - fgain X 38, Ka 55
 - Transmitter ON at 21:25:00
 - S/C on thrusters - Ka-band PcNo fluctuated significantly, as indicated in the attachemnt
 - Monopulse was enabled at 21:17:30, of about 0.5 dB in the Ka-band PcNo was observed.
 - At 00:21:30, prior to switching 2-way, monopulse was disabled and offsets were kept.
 - Switched to 2-way at 00:25:58, and monopulse was enabled at 00:28:55, a jump of about 0.5 dB in the Ka-band PcNo was observed.
 - 1-way referenced to AUX OSC
 - 1-way signal drifting:
2116 x resid 291, ka resid 1105
0025 x resid 223, ka resid 43
 - SNT at 04:27, for X-band: 22.826, for Ka-band: 34.334
 - At 04:28, Elevation: 47.02, Azimuth: 288.75, El Corr: -1.34, Az Corr: 1.69
- Operator left at 04:40 (8:40 p.m.) after queueing the RSRs.

Data will be played back to endo and placed at /rssg/data/CAS/2013_312/SCE/RSR

DSS-34

X-band:
RSR2A1

1KHz, 16 bits
Start: 312/21:05:00
Stop: 313/06:20:00

Ka-band:
RSR2B1
1KHz, 16 bits
Start: 312/21:05:00
Stop: 313/06:20:00

Ka-band:
RSR2B2
4KHz, 16 bits
Start: 312/21:05:00
Stop: 313/00:25:58