Buccino, Dustin R (332K)

From:	Buccino, Dustin R (332K) <Dustin.R.Buccino@jpl.nasa.gov>
Sent:	Monday, November 04, 2013 2:43 PM
To:	rs@list.jpl.nasa.gov
Subject:	Cassini SCE10 Report: S81, 2013/304, DSS-25

For some reason I didn't send this on Thursday. Here it is now, sorry about that.

Cassini SCE Report
October 31, 2013 7:00 AM PDT
2013/304 14:00 UTC

```
304 1400 1530 2315 2330 25 CAS TP RS198-SCE10 0304
```

Dustin provided support for this activity.

DSS-25:
X-band (RSR2A, DCC-4, fgain 38)
Ka-band (RSR2B, DCC-7, fgain 55)

Weather: Clear
Equipment: Green
Wind: 0 mph

14:00 – Voice check, briefing message
14:10 – RSR2A locked up on loading the script. Called Danny (sorry!). RSR2B is fine.
14:20 – RSR2A gconnect window closed while I was on phone with danny. Scan shows it is avliable, trying again…
14:23 – RSR2A up, script loaded and running fine now.
15:08 – AOS, X (early). Antenna on point at 7 deg elevation
15:20 – Start recording
15:30 – AOS, K. Residual frequency is 112.5 Hz. X-band TLM on at this time, DCCs in lock.
15:35 – Asked ACE to request monopulse enable. Corrections are updating and small. ~0.5 dB-Hz in Ka-band power seen upon enable
16:08 – Pc/No X-band 31.01 dB-Hz, Ka-band 45.62 dB-Hz
16:09 – SNT X-band 28.885 K, Ka-band 63.017 K.
16:10 – Monopulse corrections, Azmiuth correction 0.33 mdeg, Elevation correction -1.73 mdeg. Elevation angle 17.69 deg
16:14 – Band amp out of range on Ka-band, worst it got was -13.0 dB.
18:28 – ACE called and asked about monopulse plan for mode switch. Requested to keep offsets when the station disables monopulse.
18:35 – Monopulse disabled. Corrections 0.99 mdeg Az, 0.92 mdeg El.
18:41 – 2 way switch
18:46 – On-point phase cal started
18:51 – Monopulse enabled
18:55 – Pc/No X-band 30.51 dB-Hz, Ka-band 48.00 dB-Hz
18:55 – SNT X-band 25.466 K, Ka-band 42.598 K.
18:56 – Monopulse corrections, Azmiuth correction -2.55 mdeg, Elevation correction 1.24 mdeg, Elevation angle 38.97 deg.
19:00 – Gave ACE phone and went off-net.

Data to be played back to /rssg/data/CAS/2013_304/SCE/RSR/:

DSS-25, X-band, RCP, 1-way & 2-way
RSR2A, 1kHz, 16-bits
Start: 2013/304-15:20:00
Stop: 2013/304-23:20:00

DSS-25, Ka-band, RCP, 1-way & 2-way
RSR2B: 1kHz, 16-bits
Start: 2013/304-15:20:00
Stop: 2013/304-23:20:00

DSS-25, Ka-band, RCP, 1-way
RSR2B: 2kHz, 16-bits
Start: 2013/304-15:20:00
Stop: 2013/304-18:41:02

158 MON data will be queried and monopulse file generated and sent to David and rs@list Monday. Additionally, the log file Pc/No plot will be sent manually Monday.