

Buccino, Dustin R (332K)

From: Buccino, Dustin R (332K) <Dustin.R.Buccino@jpl.nasa.gov>
Sent: Tuesday, August 20, 2013 12:41 PM
To: rs@list.jpl.nasa.gov
Subject: Cassini ORT Report: S80 2013/232 DSS-55

CAS OORT Report: S80 2013/232 DSS-55

Dustin provided support for this activity.

S80 ORT, August 20, 2013 PDT, 2013/232

BOA: 1045

BOT: 1215

EOT: 2100

EOA: 2115

Activity: RSS_196SA_OCCORT001_RSS

Pass Number: 0232

DSS-55

X-band (DCC-7, RSR2A, fgain 38)

Ka-band (DCC-6, RSR2B, fgain 55)

- Weather: clear
- Wind: 4.2 mph
- Equipment: Green

11:30 - Arrival at ops room

11:53 - X-band signal acquired, TLM off

12:11 - Elevation 9.34 deg

12:14 - Ka-band acquired, Residual frequency = 560 Hz

12:14 - sfro on subch 1 of +560

12:16 - On-point phase cal started

12:20 - Pc/No X-band: 29.70, Ka-band: 40.39

12:21 - SNT X-band: 37.21 K, Ka-band: 108.85 K

12:24:18 - Monopulse enabled, On-point phase cal complete

12:25 - Monopulse corrections Azmiuth Correction: -0.93 mdeg, Elevation Correction: -4.98 mdeg, Elevation: 11.74 deg

12:53 - Band amp out of range rsr2b

13:17 - Pc/No X-band: 30.69, Ka-band: 43.38

13:17 - SNT X-band: 28.642 K, Ka-band: 72.30 K

13:20 - Monopulse corrections Azmiuth Correction: 2.14 mdeg, Elevation Correction: -9.05 mdeg, Elevation: 20.43 deg

13:54 - Band amp out of range rsr2a

14:20 - Pc/No X-band: 31.66, Ka-band 45.35

14:21 - SNT X-band: 25.78 K, Ka-band: 61.37 K

14:22 - Monopulse corrections Azmiuth Correction: 3.85 mdeg, Elevation Correction: -4.19 mdeg, Elevation: 29.10 deg

15:10:00 - Monopulse disabled, signal flucuations by about 1 dB when disabled. Stored corrections Azmiuth Correction: 4.50 mdeg, Elevation Correction: -0.97 mdeg, Elevation: 34.20 deg

15:14:00 - Switch to 2-way, sfro set to 0, station DCC out-of-lock

15:14:46 - X-band 2-way acquired

15:16:00 - Ka-band 2-way acquired

15:19 - Monopulse enabled, no signal level increase seen
15:21 - SNT X-band: 25.07 K, Ka-band: 55.45 K
15:22 - Pc/No X-band: 31.57, Ka-band: 46.25
15:23 - Monopulse corrections Azmiuth Correction: 7.73 mdeg, Elevation Correction: -2.15 mdeg, Elevation: 35.12 deg
15:33 - Track proceeding nomially, off-net. Gave ACE phone number
15:53 - Phone call from ACE. On-point phase cal requested by station, gave approval and returned to ops room to monitor. Stored corrections Azmiuth Correction: 8.33 mdeg, Elevation Correction: 2.14 mdeg, Elevation: 36.98 deg
16:09 - On-point phase cal complete, Az/El corrections are updating.
16:20 - Nominal tracking

Data to be played back to /rsgg/data/CAS/2013_232/ORT/RSR/

X-band, RCP, 1-way & 2-way

RSR2A: 1kHz, 16-bits

Start: 2013/232-12:05:00

Stop: 2013/232-21:05:00

Ka-band, RCP, 1-way & 2-way

RSR2B: 1kHz, 16-bits

Start: 2013/232-12:05:00

Stop: 2013/232-21:05:00

Ka-band, RCP, 1-way

RSR2B: 2kHz, 16-bits

Start: 2013/232-12:05:00

Stop: 2013/232-15:14:07

158 MON data will be queried and monopulse file generated and sent to David and rs@list.