

Buccino, Dustin R (332K)

From: Barbinis, Elias (332K) <elias.barbinis@jpl.nasa.gov>
Sent: Saturday, July 27, 2013 9:59 AM
To: rs
Subject: Cassini Report: S79, 2013/208 DSS-55 Occultation ORT
Attachments: 55k_doy208.png

DSS-55 Occultation ORT

13 208 1155 1325 1600 1615 DSS-55 CAS T93PB/RSORT MC 5780 N750 1A1

X -band (DCC-01) and Ka-band (DCC-07)

- Weather: overcast sky, wind speed 11 km/hour.
- Equipment: Green.
- X-band 3-way/43 signal present before BOT
- Ka-band 3-way/43 signal present before BOT
- Bandwidths for X-band: 1, 16, 50, 100 KHz Record 1 KHz
- Bandwidths for Ka-Band: 1, 16, 50, 100 KHz, Record 1KHz

- fgain X 38, Ka 55

- S/C not rolling

- Monopulse was enabled at 13:45:00, at elevation 10 degrees, no jump in the Ka-band PcNo was observed.

- Ka-band PcNo fluctuated significantly until about 14:15 and then settled to fluctuations of about 1.5 dB,
as indicated in the attachment, probably due to the overcast sky.

At 15:53, El: 29.53, Az: 140.51, El Corr: 2.84, Az Corr: -8.16

At 15:54, X-band SNT: 26.950, Ka-band SNT: 55.097

Data were played back to endo and placed at /rssg/data/CAS/2013_208/ORT/RSR

DSS-55:

X-band:
RSR2A1
1KHz, 16 bits
Start: 208/13:10:00
Stop: 208/16:05:00

Ka-band:
RSR2B1
1KHz, 16 bits

Start: 208/13:10:00
Stop: 208/16:05:00