

Ops Room:
Aszel, Danny, Don, Elias,
Kuber, ro
Ace: John Tillius
Nope: Lu & Jack

S37 Rev 57 Rings Occ

DOY 027
DSS-43 & DSS-34

1/27/08
DOY 027
Rev 57 (1)

No David Rochblatt
traveling back from Madrid

~1600 got message from David Rochblatt. He's traveling back from Madrid. He spoke to Leigh Cameron at Camberra, & he's having problems developing new model.

1605 Ace briefing to DSS-34 followed by DSS-43
DSS-34 Pre 1600, BOT 1730, EOT 2115, Post 2130
Pass # 3767

Weather Clear, Eq. Green

DSS-43 Pre 1630, BOT 1730, EOT 2115, Post 2130
Pass # 3767

Ops

DSS-43 Elias on rsops1: X RSR1A, S RSR1B

DSS-34 Danny on rsops2: X VSR1A, K VSR1B

backup X RSR2A, K RSR2B

RSR2 status is green, but just in case!

DSS-43 LCP Don on rsops3: XLCP WUSR1A, SLCP WUSR1B

Nope (Lu) giving stations predicted signal level

DSS-34 X

DSS-34 K -136 dBm

DSS-43 X -129 dBm

DSS-43 S -140 dBm

1650 Talked w/ 34 about pointing model. They asked about entering offset. Told the J spoke w/ David Rochblatt & he spoke w/ engineer at Camberra & we have two options: Put manual offsets in system, or let man. calculate offsets. Asked them if they have preference. He said that engineer those prefers.

entering manual offset. Asked what it is. Said +4 mdeg in elevation. Asked if we should start w/ monopulse then enter offsets, or enter offset from start. Said to start w/ monopulse, but engineer thinks offset will be larger than mn. can calculate. Told them we cannot keep monopulse enabled. We have about 20 minutes at beg. to enable, but should have offset before 1810.

Fggin :

DSS-43 X59
S 48

(increase from last time. Danny said S-band clipped during last 2 min of recording last time. Could be bec ADC values we down)

DSS-34 X54
Ka 54

DSS-43 LCP 35

Predicts: 1-way (throughout)

Plan

AT auto X123
Start recording 1725

Coops .. error in timeline
Start turn to Earth point 183100 ERT
Ends w 1844 ERT..

1759 Gave station new monopulse plan.
Have until 1905 to enable monopulse & enter offsets

1/27/08
 DOY 027
 Rev 57 (2)

Plan

- 1813 cell auto
- 1815 start record
- 1817 SNT measurement

1817 SNT measurement (.25 K diodes)

1818 readings		Danny	Station
	43 S	19.3	19.1
	43 X	23.5	23.0
	34 X	26.7	27.16
	34 K	59.7	59.0

1830 EL 34.45 A3 319.18

1830 Weather update from DSS-34
 Clear, Wind ϕ , Temp: 14°C, H 59%

Setup:

16K : ftna 16
 ffiti J

~ 1841 S-band signal @ 43

~ 18430 X-band signal @ 43

ACE told station that RS seeing a weak signal so they should start seeing something soon

~ 1843 Ka-band signal

~ 1844 43 has lock of X & S band at expected AGC

~ 1844 34 has mon. enabled

1845	el 32.21	A3 315.22	A3 Corr 0.83	GI corr. 7.87
1850	31.65	314.31	-0.11	7.06
1853	31.22	313.64	-0.04	6.80
1900	36.17	312.06	2.86	5.45
1904	29.49	311.07	2.90	6.15

1848 Pc/No readings

43 X	55.94
43 S	44.70
34 X	49.90
34 K	49.74
43 XLCP	31.86
43 SLCP	15.67

again
59 ← close!
48
54
54
35
35

1857 asked 34 if they have room for offsets, whether to enter manual or go w/ monopulse
⇒ go w/ monopulse, which is now 7.2 in elevation
⇒ so at 1905 disable man. & keep offsets, correct?
⇒ correct.

1902 Asked 34: We've been monitoring man. offsets on our side & noticed that Az corrections increased during past couple of minutes, wondering if they did anything on their side that would explain it
⇒ they haven't done anything

19030 34 disabled monopulse (keep offsets)
(plan was 1905)

offsets in system: Az Corr 2.90, EL Corr 6.15

190512 slight drop in Ka-power (.7 dB)
(spike)

1925 Pc/No readings

43 X	55.72
43 S	44.50
34 X	49.59
34 K	48.64
43 XLCP	30.86
43 SLCP	12.99

EL 26.01 Az 306.41

Arv & John showed up in 1929
(John showed up earlier but left & came back)

1/27/08
D07027
Rev 57 (3)

193550 Nope asked station to reconfigure dLk channel to open-loop mode (so that SNT values are recorded in NMC log)

1948 Told stations signals at full strength in 194947 so to re-acquire rcvr.

⇒ They were in lock (ACE said they locked up just as I was talking to them).

1951 P_c/No readings Ring C out

43 X	54.98
43 S	44.11
34 X	49.41
34 K	48.43
43 XLCP	31.32
43 SLCP	10.40

2001 Nope asked 34 to configure channel to in open-loop mode until in 2006.

2005 ^{BSA³} lost comm w/ DCO1 (S-band rcvr) & would like to reconfigure rcvr. (time 200445)

2011 34 back in lock

2011 P_c/No readings

43 X	54.98
43 S	43.97
34 X	49.05
34 K	45.44
43 XLCP	31.05
43 SLCP	9.60

E1 18.1 A3 297.7

2030 ~~Had~~ 34 & 43 to do SNT measurement at 2032.

43 enabled SNT right away.

2032 34 enabled SNT both rcvrs
Danny

2033 reading	43 S	25.5 25.5
	43 X	31.8
	34 X	35.0
	34 K	88.6

2036 DSS-43 asked if we wanted SNT disabled throughout support shift change at 2000
Operator had X-band SNT enabled at 2022
⇒ told him we were done w/ science data collection at that time so we should be ok, thanks for letting us know.

2040 Thanked stations. "We're done w/ our recordings. The exper^{iment} was a success so thank u v much for your outstanding support. P13 stand by for ACE or Nape to release you".

Playback 1815-2035

2041 Stations released
DSS-43 DR # 166151