

560 Rev 133 Sect. ATM & Rings
 Occ In & Out

6/18/10
 DOY 169-170
 (1)

In Ops Room: Aseel, Danny, John, Essam, David
 later shift Don & Elias

NOPE: Sandy then Jack

Madrid: Overcast

Goldstone: Weather clear, light winds (18 mph)

1850 DSS-63 XMIT off.

~20 min earlier than DKF time to give 25
 some time to do 1-way on-pump phase cal before
 begin of baseline

fgain

25X	54	34X	54	63XR	60
25Ka	55	34Ka	55	63SR	50
15X	54	43X	60	63XL	28
15S	42	43S	50	63SL	30

Prdx at BOT 3 way / 63
 ~2105 signals @ Goldstone
 210930 15 1/L S&X w/63
 DC01 210855 DC03 210900

25	X DC06	Ka DC06
15	X DC03	S DC01
63	X DC01	S DC06

~2107 25 appears to conscan (or monopulse cal) till 2115

Ingrid

212730 Signals dropped going 1-way

212740 AH auto at all stations

+ pidx change to 3-way/2

Except 63.. use 1-way (since they don't hit atmosphere)
212835 NOPE asking station²⁵ if they were able
to complete man. cell in 3-way
⇒ NO

2128 15 1/L

X 212824 S 212828

Dropped X 212731 S 212729

63 times

X 212757 o/L

212834 1/L

S 212736 o/L

212823 1/L

25

X 212729 o/L

212857 1/L

Ka 212731 o/L

213046 1/L

2159 Asked 15 to enable SNT

25 said they did their best on mono..
wind bet. 29 & 40 km

2200 SNT measurement

15X 25.937

63X 27.374

15S 32.809

63S 18.134

25X 27.3

25 Ka 34.6 **

don't trust it
see note next page

2201 Asked 25 about man. .. they said they completed
Cells & man. cell be used

6/18/10
Rev 133
007169-77
(2)

2202 Asked 63 & 15 to disable SNT on both
25 disabled Ka only

220447/48 TLM off

220650 Asked 25 to disable mon. & clear offsets
David said offsets low, but wind may be brassy. wants to watch offsets w/ mon. disabled & decide if use manual offsets.

2208 R/No

15X	48.80	63XR	54.68
15S	34.80	63SR	42.95
25X	48.4	63XL	33.55
25Ka	48.0	63SL	21.40

2209 25 operator said that was told by engineer: Don't trust Ka SNT values bec. they replaced system there & have not had chance to check it.

2211 David said can put a manual offset in cross EI -2.5 mdeg & watch it for a few min (will gain us a few tenths of dB, less than .5). Decided to go w/o offset

2211 Drops in Ka-band!
Similar to what John & Danny saw during ORTs

2214 Asked Madrid for weather update
⇒ Skies overcast

223555 15 S OIL } Ring A in
223438 15 X OIL }

22509 started seeing weak signals. Ring A out
225924 15 X ILL

230052 25 Ka ILL

230101 15 S ILL

230150 25 X Solid lock

230230 25 enabled X SNT

hmm.. why did they have to re-enable?
Thought it was enabled from start.

230520 .. Asked station ..

they said values were fluctuating so they
disabled & re-enabled ... Asked for times ..)

230109 disable SNT

230228 re-enable SNT

230738 25 X configured in open-loop
15 asked if they should do the same

235459 15 X ILL
& then S

235545 25 ILL X

2357 25 X opened-loop

DSS-63 Playback

2130 - 0020

↑

no 1-way signal till 2140. John was trying 3-way/2 prdx but for 63 it was 1-way

6/18/10
Rev 133
DOY 169-170
(3)

001545 Asked 15 for weather update
⇒ 26 mph from SW 87°
clear skies

0018 Pc/No

15X 49.42

~~63X~~ Ops!

15S 35.33

25X 48.8

25K 48.2

002300 25 mon. Enabled
though signal level at Ring C at is same as when we started, this is to help decide what we'll do during occultation before egrow
⇒ .4 dB increase

0038 25 said Ka band dropping d/L & mon. disabled. Re-enable?
⇒ no

S-band losing before others bec. using 34-m antenna. In past it would be last.

DSS-15X 25 Playback

169/2130 - 170/0110

0108 SNT	
15X	22.528
15S	40.005
25X	24.4
25Ka	53.8

011045 25 X configured in open-loop mode

Egrew S60 Rev 133 Sect. Atm & Rings

Prdx 3-way/3
OCCS In & Eg

For egrews, David suggests -3.0 mdeg (-0.003 deg)
in cross-EI & nothing in elevation.

0117 Asked 25 to do \uparrow . Clear offset & enter -30 mdeg

0117 25 manual man. offset entered

Canberra RSRI problem. Used VSRI instead

0300 Start rec

0330 Canberra alt auto

033150 Asked 34 & 43 to enable SWT on aep
Goldstone already enabled

15X	23.0	43X	33.2
15S	29.8	43S	27.4
25X	24.486	34X	29.413
25Ka	61.635	34Ka	68.40

0335 Asked 15 & 43 to disable SWT on both

033550 Asked 25 & 34 to disable SWT on Ka only

Weather Canberra: Overcast, winds 16.7 kph
0345 Weak signals (egress)

6/18/10
Rev 133
DOY 169-170
(4)

0354 P_c/N_o

15X	49.45	43XR	53.43
15S	35.31	43SR	42.48
25X	48.98	34X	48.30
25Ka	47.90	34Ka	48.14

43XL	28.44
43SL	24.86

0359 15 finally s-band 1/L

(ACE ~~was~~ told them it's weak when they said they haven't locked up on it, so I corrected him & said it's full strength. Station then tried to acquire & they did).

040450 Asked 34 for weather update ⇒ overcast & wind
040810 34 enabled mon. ⇒ u2dB jump
040851 25 cleared affect
040921 25 enabled mon

0415 P_c/N_o Ka only
34K 48.48
25K 48.38

041730 34 getting back to me on weather. Fine.
9.3 kph

0426 Station 34 re-enabled monopulse w/o us asking
⇒ can u please not reenable w/o us asking

0434 Noticed 34 mon. was enabled
Asked 34 if they re-enabled it again

⇒ yes

⇒ again, asked them to leave it disabled
& not enable again

0449 25 asking if they should configure
for open-loop since they are going to be
out of lck for a while

⇒ yes

0655 P_c/N₀

15X 48.20

~~15S~~ 33.58

25X 47.65

25Ka 45.40

~~43~~ XR 55.63

43 SR 44.06

34X 49.49

34Ka 49.81

43XL 32.30

43SL 22.56

0718 25 & 34 enable mon.

⇒ w/ dB jump @ 34

0721 LOS

0729 SNT meas

15X 38.153

15S 48.918

25X 40.078

25Ka 139.637

0730 SNT meas

43X 20.888

43S 17.521

34X 20.750

34Ka 41.063

0740 Released Canberra

Espresso Playback 0330 - 0740