

1836 Structured recordings 3A
 1844 Structured recordings 4B LCP
 1851 Structured recordings 4B LCP
 1847 John Swifted from WSR1 to USB2 for 4B LCP
 1845 3A 1/L Xbus
 1847 4B 1/L Xbus
 u 1834 Squares at 3A

Dany / Elisa
 John / Dan
 5A
 5A
 31
 35
 49
 59

3A/SS LR
 3A/SS XB
 43/63 SL
 43/63 XL
 43/63 SZ
 43/63 XL

Finger:

FLDX: 1-way (free space of mirrors)

Weather: Rainy

New module at 55
 in (+)
 Same module w/ Z-S module off
 No update to 3A learning
 nothing module

ACE: B:11 Mognesia

Dark

NOFE: LN 1st shift

second shift (4-1pm) Elou, Dan
 first shift (9-4pm) Dany, John
 QPS Room: Fasef, David, Essam

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DSS-3A, 43 DSS-SS, 63

Links (in & out) & Item (errors)

QCC

SSC Rev 123  
12/25/09

SSC Rev 123 Sathu Item & Links

①

1952 Fluctuations at X & Ka due to rain

1953 monopulse enabled

1942 34 weather update.. raining harder than before  
wind 8 kph  
fluctuating Ka & X due to rain

1949 SNT measurement

43 X 96.95

43 S 24.127

34 X 31.525

34 Ka 125.67 (was 143 for a bit)

1952 SNT disabled except 34 X-band

"previously we could see through rain B .. today completely blind"

1958 43 signal power is just 1-2 dB higher than 34

2001 Asked Lu if we should have station Censcan

2002 43 enabled Censcan for 6 mins to see if

Lu called

2004 Dichroic plate extended (outside feed horn)

to track X & S, so impact of rain on 43 X would  
be greater than BWG. BWG has everything under  
antenna (because of droplets accumulating on  
43 reflector)

2008 43 reported had Censcan on for 8 mins 70-m antennas equip  
all exposed. 54-m h basement

2010 Lu called.. Said 1st two cycles good, but last  
not good → so clear offset  $\Rightarrow$  Yes

2011 Lu asked 43 to clear offset  $\Rightarrow$  drop 2d B in X

2013 On phone w/ Lu.. told him still have time for another  
censcan (instead of using old values)

(2)

S560  
Rev 123

- 2013 Lu asked 43 to conscan again for 6 min.
- 2018 Lu asking station what radii of conscan is (David wants to know in case we're locked up on sidelobe)
- 2.9 miles
- Asked station if they can change radii  
→ ~~1mdeg~~ to 5 degree
- David wants 0.01 deg (10 mdeg)
- "<sup>Essam</sup>  
this is an experiment where every dB counts  
be rms are closed.."
- Asked station if it takes more time to complete cycle if changed radii  
→ 43 said not sure. They don't usually change that parameter, but don't think so (NOPS thinks it will)
- 2029 43 disabled conscan & kept offsets
- 2030 Incomplete SOM (Software Operators Manual) does not explain how changing radii would impact period
- 2032 NOPS told 43  
On DC01 to halt rcvr & re-acquire  
(in response to us saying we may be locked up on sidelobe)
- 2037 34 monopulse disabled & kept offsets
- 2040 P/N.
- |      |           |
|------|-----------|
| 43XR | 47.85     |
| 43SR | 44.062    |
| 43XL | 34.19     |
| 43SL | no signal |
| 34XR | 48.47     |
| 34KR | 45.32     |
- 2042 Talked to Essam about manual offsets (David suggested earlier in direction of current offsets but double). → No .. no time.

2053 Weather update from A3

Overcast & light drizzle

conservative offsets

-9.6 EL

212350 P/N<sub>o</sub> (Just before entering Ring B)

|       |       |
|-------|-------|
| 43 XR | 43.91 |
| 43 SR | 43.96 |
| 43 XL | 33.75 |
| 43 SL | 14.31 |
| 34 XR | 48.39 |
| 34 KR | 45.72 |

2127 on DDC6, reconfigure D/L channel in open-loop mode so that RS can see SNT in NMC log

DR# C107202 for A3 X-band pointing

All rcvrs out of lock during mrs B

2206 34 back to closed-loop mode in prep for Ring C

220700 34 I/L on X & Kα

2239 P/N<sub>o</sub>

|       |       |
|-------|-------|
| 43 XR | 48.42 |
| 43 SR | 43.46 |
| 43 XL | 32.91 |
| 43 SL | 19.49 |
| 34 XR | 48.50 |
| 34 KR | 45.91 |

2241 34 monopulse enabled  $\Rightarrow$  P/N<sub>o</sub> 46.5

224150 34 DC in open-loop

( $\sim$  6dB jump)

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## 230150 SNT measurement

556  
Rev 123

43X 75.463 (maybe some water.. moisture got there)  
 over 7mdeg affects so that's why opened dB  
 43S 20.457 expect ~17 Kelvin)

- 7mdeg offset +3 dB
- 9mdeg .. -5.6dB down
- SNT .. 6 dB

will let antenna people investigate  
 But pointing model is a little off.. didn't use same  
 model before

Impress 1845 - 2305  
 Playback

NOPE : Jack  
PACE : Dave Doodly

Eggers

63X ADC amplitude not as expected on RSR2A.  
Asked Don to bring up WSR2. A little better but  
still not as expected (Don had problem connecting to  
WSR2. Needed password). Brought back RSR2 &  
decided to stay with it

55Ka ADC amplitude not as expected on RSR1B.  
Was OK, but then increased: Desired Amp to -6.4  
& ADC Amp to -5.4.  
Asked Eggers to bring up VSR  $\Rightarrow$  Ka on VSR1B  
 $\Rightarrow$  Values as expected! first record 015036

### 0149 SNT Measurement

63X 90.1  $\Rightarrow$  83.00  
63S 21.6  
55X 33.559  
55Ka 48.354

### 015250 Disabled SNT

0154 asked 55 for weather update

Rain stopped

20.4 38NE

0156 Asked NOPE if high SNT expected if rain  
stopped

$\Rightarrow$  possible.

0200 RSR2 again changes (had wrong values)

021309 55 X-band 1/L

022040 55 Ka. 1/L

021406 63  $\leq$  1/L

022219 63 X 1/L

(4)

SS6  
Rev 1230224 P/N<sub>o</sub> reading

|      |           |
|------|-----------|
| 63XR | 41.06     |
| 63SR | 42.87     |
| 63XL | 18.625.54 |
| 63SL | 18.69     |
| 55XR | 48.11     |
| 55KR | 44.28     |

0312 Revrs losing lock as going through ring B

0313 Asked NOPE if we can ask 55 to configure X in open-loop

031340 Nope asking 55 to configure X-band in open-loop mode

0354 Asked NOPE to let 55 be ready for X-band

0356 55 has Xrcvr I/L but in &amp; out

035624 63 S-band I/L

035740 55 has solid lock on X &amp; Ku

035755 63 has lock on X-band

0439 P/N<sub>o</sub>

|      |       |
|------|-------|
| 63XR | 48.01 |
| 63SR | 43.72 |
| 63XL | 21.00 |
| 63SL | 14.29 |
| 55XR | 48.78 |
| 55KR | 41.16 |

0441 Asked 55 for weather update: light rain, Ø wind speed

Playback 0145 → 0550

V821B 0151 → 0550