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Rev 72 Saturn Atmospheric Occultation

June 15/16 2008

SAI Rev 72
DOY 168

Day 168

Pass 3908 (C)
3907 (G)

Fgain: DSS 14 + 43 S48 X61
DSS 25, 26, 34 X56 K56
DSS 47 K62

PRDX 3-way/3 Ka 1, 2, 16, 50
Ingress SFRG 1 +400 2 +700

JPL Comm

14 clear green
26 " "
25 " " 14, 8k/h 212

14 asks about the 12 in brief NOPE provides info

03:06 Nope asked 26 to redistribute products

43 Fine Green S-Band Maser Orange
34 Fine Green No winds

Endo is Down - Don calling Kevin

VSR has OUTCHK error
RSR3 has EVT 34 warning

03:35 SMT 43 confirm OFF
34 confirm XON K OFF
14 OFF
25 OFF
26 X ON K OFF

Non coherent loop bandwidth to 8Hz X upper threshold to 15

AOS ~ 03:48 CAS25 pointing model
03:49 rec ae 34 in lock Mono is enabled 25 doing monopulse cal

03:51 14 in lock
43 in lock

04:02 26 in lock but waiting til bias finishes

03:56 RWA Bias
- 04:12

2

04:08 AOS at DSS 25 Late because of redoing monocal.

04:10 25 in lock

SNT	14	x 21.33	S 17.9
	25	K 61.712	X 25.076
	26	x 25.02	K 47.8
	34	x 24.9	48.8
	43	x 24.88	S 23.48

14 off
 34 K off
 26 OK
 25 OK
 43 OK

04:21 25 + 26 enable

04:30 :29

04:35 in lock Antenna 2 out of action

04:52 25 clear offset

26 + 34 ~~keep offsets~~ stay on
 26 stay on

05:55 SNT 06:00 switch s/cro

DSS 34 -6

47 Released 05:30
 Antenna 2 Down because of cabling
 issue

34 -4 mdeg
 26 -6 mdeg

04:45 47) 50.52
 34 X 49.1
 K 49.27

25 X 48.53
 K 47.59
 26 X 49.1
 K 49.30
 14 S 43.1
 X 55.0
 43 S ~~55.1~~ 43.6
 X 55.1

3

05:44 DSS-26 cleared offsets

05:45 DSS-24 cleared offsets

DSS-47 reports:

26 -6 mdeg entered
34 -4 mdeg entered

Cable peg chewed thru

SNT 05:59

25	K = 84.7	X = 31	✓
26	K = 68.6	X = 32.4	✓
14	S = 21.9	X = 28.5	✓
43	X = 21.0	S = 26.0	✓
34	K = 50.2	X = 24.9	✓

→ can't see in our display but NOPE confirms

06:23 Nope ask 47 for DR to document cable problem

06:32 SNR 47 32

34	X	49.17
34	K	48.45
14	X	45.8
14	S	40.6
43	X	35.5
43	S	43.9
25	X	46.12
25	K	41.05
26	X	46.14
26	K	43.24

06:50 DSS47 LOS

06:55 SNR 47 14

34	X	49.12
34	K	49.2
43	X	35.5
	S	43.8

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07:09 DSS-39 enable Ming

07:36 enable SNT 34 + 43

$$\begin{aligned} 39 \text{ } \cancel{\text{}} \text{ } \cancel{\text{}} X &= 24,529 \\ K &= 51.0 \end{aligned}$$

$$\begin{aligned} \cancel{\text{}} \text{ } \cancel{\text{}} 43 X &= 21,195 \\ S &= 19,718 \end{aligned}$$

07:35 Good Nite and Good Luck!

47 DR# C106427