

S13 Rev 165 E19 Gravity

E19 ①

DOY 122 - 123

DSS 55, 25, 34

RSS support: Aseel → Dan → Elias → Danny

NOPEs : Jack → Sandy → Lu

ACE : Bill → Grant → Dave Doodly (w/ 150)

RSRs : 2 AN B @ 55 & 25, 1 A&B @ 34 (Per Mitch's recommendation)
fgain: X: 38 KA: 53

DSS-55 support nominal. See notes attached to log.
Monopulse nominal (was problematic during ^{last} ORT).
Playback short hway segment 122/2345 - 123/0030
RSRZA SC 1 only

2-way 123/0225 - 123/0415
1 & 8 kHz BW

Weather Partly cloudy

0255 weather update: Overcast & no wind

024513 mono enabled during 1st segment \Rightarrow 0.5 dB improvement

DSS-25 support nominal. See notes attached to log.
Monopulse nominal

024130 mono enabled during 1st segment
 \rightarrow no change in power

0042050 mono enabled during 2nd segment
 \rightarrow +1 dB increase in power

Weather Slightly overcast, light winds @ Pre-Cal

0242 Wind 20 mph, gusts to 30 mph!

1103 Weather update:

58°. Cloudy. 10 mph winds

Playback : 1st segment

123/0225 - 123/0600

123/0905 - 123/1200

DSS-34 Where do I begin ?!!

~0200 NOPE said over the net that DSS-34 is down & won't be able to support. No other antenna available. DSS-43 is down. DSS-43 scheduled to ACE. Who is using DSS-43 & is it as high priority as Cassini flyby? → looking into it

Sent txt msg to Shahram (SIP lead)

Many calls.

EIA playback not as impacted. They have dual playback scheduled

DSS-43 scheduled by:

- | | | |
|-------|-------------|--|
| ODY: | 0625 - 1150 | → Said No. |
| Vgr2: | 1150 - 1440 | → Said No. Had issues w/ LNA for days now. This a special test |
| NH: | 1440 - 1835 | → Can give up last hour |

Eventually had telecon w/ SIP leads (Shahram, Shawn, Nimisha, Bill, Kan). Significant impact is to RSS.

Bill asked if we need LNA. Got confused by his Q. What he was asking was that if we don't need LNA, 34 can still support

Went to other phone to talk to NOPE (Jack)

Don't do w/o LNA. Signal before LNA still @

RF level. Nothing would get to rav w/o LNA.

No way around it. And no backup LNA.

New LNAs are dual package: X & Ka, so if get X, will get Ka (in response to me asking if they can support X only).

Bob got called into meeting. He will call other project management & will call me back.

Concentrate on getting time from Vgr2 & NH for 2nd segment.

ODY & VGR2



- Doesn't have details about problem but LNA & circuit breaker that keeps tripping. All in one package in new LNAs. Circuit breaker provides power to the whole assembly. In past used to be separate ones.

E19 (2)

.. 0405 Bob called me back
We are out of luck!

Talked to Voyager (didn't catch name. VCCA was
bored). They need to uplink commands to
determine BLF to order to ~~playback~~^{get science} data
during a later track. They already lost data.
Doesn't want to get into who's data are
more important

Not hard negotiation. Project management prob.
on east coast & hard to get a hold of
in time

No Bargain
Since no threat to Cassini S/C, difficult to
push harder for this.

Sent email to team to tell them no 3rd segment
support & C/A segment 25 min shorter, unless some
miracle

in 0650 ACE told Don that expert is @ station working on
antenna. May have it available for support!!!
(Don called me)

Shortly before Pre-coal, ACE said that station will
support but antenna will probably trip (circuit
breakers) at time, but they will be able to turn it
back on. Interruptions.

070 DSS-34 Pre-coal !!

Weather Overcast w/ light rain

got update @ 1105 → Heavy fog
Ka-band is impacted & up to -10dB
degradation (but mostly no.6dB)

I'm back on shift @ 0900

Talked w/ ACE & NOPE (Sandy) to understand
things better

Circuit breakers CP-1 & CB27 may trip. If switch off may
have to cool down, so couple of steps. Expert is
standing by.

Sandy sent me report

0919 DSS-34 1/L X & Ka !!!

n 2 minutes after DSS-25. AZ brakes were set to
ON. Will open DR.

DR # C108649

092210 Nav enabled → 2dB improvement
told ACE if this complicates ops, then no

- Small spurs (~10 dB-Hz) @ +/- 180 Hz around Ka-band carrier
Delayed telling station about it cause happy that they
are even tracking

1018 Told station about spurs, but no need to work on
it now. They care far enough not to impact data.
Just to be informed

⇒ see it in X

⇒ NO

DR C108651 for RCP uplink