

About the Occultation

- S31 Rev 46 Saturn Rings and Atmospheric occultation
 - Ingress Rings and Atmospheric occ only
 - Telemetry OFF, 1-way mode
 - Covered by Goldstone
- The rev46 egress ring occultation is second of two occultations that were especially designed to view the rings at an intermediate opening angle (the other was rev 44 completed on May 10).

DSN Antennas

- DSN Coverage

Station	Pre-cal	BOT	EOT	Post-Cal
DSS-25	162/1735	162/1920	162/2350	163/0005
DSS-26	162/1735	162/1920	162/2350	163/0005
DSS-14	162/1805	162/1905	162/2350	163/0005

- Receivers scheduled

- 2 closed-loop receivers per antenna
- All RSRs, VSRs and WVSRs at Goldstone are scheduled
 - Total: 18 open-loop receivers
- Open-loop data are prime. Closed-loop data are backup

- Antennas Band and Polarization Capabilities

DSS-14	DSS-25	DSS-26
X-RCP X-LCP	X-RCP X-LCP	X-RCP X-LCP
S-RCP S-LCP	K-RCP	K-RCP K-LCP

Either KLCP (switch 43 in B position)
or monopulse (switch 43 in A position)

- LCP data are enhancement. Prime are RCP

RSR/VSR/WVSR Assignment

Don: VOCA

Roberto: Displays

Aseel: Webcam from Jordan 😊

DSS	Operator	Station	Open-Loop Receiver	RSR Assignment
14	Gene	rsops1	RSR3	RSR3A -> XRCP
				RSR3B -> SRCP
25	Elias	rsops2	RSR2	RSR2A -> XRCP
				RSR2B -> KRCP
26	Danny	rsops3	RSR1	RSR1A -> XRCP
				RSR1B -> KRCP
26/14 LCP*	Danny	rsops3 or PC?	VSR1 and WVSR1	26 VSR1A -> XLCP
				26 VSR1B -> SLCP
				14 WVSR1A -> XLCP
				14 WVSR1B -> KLCP

* Setup and monitor for a few minutes at beginning, but no need to monitor afterwards.
Priority should be DSS-26 RCP

ORTs

Not many were scheduled since it hasn't been long since T31 (DOY 148, May 28th) and its ORTs

ORT on DOY 158 (June 7) over DSS-26 and possibly DSS-25

07 158 1800 1945 0445 0500 DSS-26 CAS TP RSR46-SAORT1 3532 N750 1A1

07 158 1845 1945 0445 0500 DSS-25 CAS TKG PASS SEQ 3532 N006 1A1

- DSS-25 is prime for uplink and telemetry. It's currently not scheduled to support Ka-band. Working with NOPEs and sequence leads to see if it can be added on best-efforts basis
- Collected pointing data (monopulse) to update the 4th-order blind pointing model