

S100 Rev 280 Open-Loop Receiver Assignment

DSS Prdx Mode	Operator (S) Scripted By	Ops Machine	Open-loop Receiver	Channels	Subchannels	Bandwidths KHz
DOY 173						
55 1-/2-way	Elias (S)Elias	rsops1	RSR2 RSR1	RSR2A -> XRCP RSR1B -> KRCP	1, 2, 3, 4 1, 2, 3, 4	1, 16, 50, 100 1, 16, 50, 100
DOY 174						
25 1-/2-/3-way	Elias/ Clement (S)Elias	rsops1	RSR1	RSR1A -> XRCP RSR1B -> KRCP	1, 2, 3, 4 1, 2, 3, 4	1, 16, 50, 100 1, 16, 50, 100
25 1-/2-/3-way	Jay (S)Elias	rsops2	RSR3 Precision Mode	RSR3A -> XRCP RSR3B -> KRCP	1, 2, 3, 4 1, 2, 3, 4	1, 16, 50, 100 1, 16, 50, 100
84 3-way	Aseel	MAC/ psdg5	PRSR 168.96.250.72	PRSR -> XRCP	1, 2, 3, 4	1, 16, 50, 100
43 2-/3-way	Clement/ Elias (S)Clement	rsops1	RSR1	RSR1A -> XRCP RSR1B -> SRCP	1, 2, 3, 4 1, 2, 3, 4	1, 16, 50, 16 1, 16, 50, 100
43 1-way	Danny/Jay (S)Danny	rsops4	WVSR1	WVSR1A -> XRCP WVSR1B -> SRCP	1, 2, 3 4 5, 6, 7, 8 1, 2, 3, 4 5, 6, 7, 8	1, 16, 50 16 (with offset) 1, 16, 50, 100 (with offset) 1, 16, 50, 100 1, 16, 50, 100 (with offset)
35 2-/3-way	Clement/ Elias (S)Clement	rsops1	RSR2	RSR2A -> XRCP RSR2B -> KRCP	1, 2, 3, 4 1, 2, 3, 4	1, 16, 50, 16 1, 16, 50, 100
35 2-/3-way	Danny/Jay (S)Danny	rsops4	WVSR2 Precision Mode	WVSR2A -> XRCP WVSR2B -> KRCP	1, 2, 3, 4 1, 2, 3, 4	1, 16, 50, 100 1, 16, 50, 100
35 1-way	Danny (S)Danny	rsops3	VSR1	VSR1A -> XRCP VSR1B -> KRCP	1, 2, 3, 4 1, 2, 3, 4	1, 16, 50, 100 (with offset) 1, 16, 50, 100 (with offset)

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DSS Prdx Mode	Operator (S) Scripted By	Ops Machine	Open-loop Receiver	Channels	Subchannels	Bandwidths KHz
74 2-/3-way	Aseel	MAC/ psdg5	PRSR 134.159.181.84	PRSR -> XRCP	1, 2, 3, 4	1, 16, 50, 100
63 1-/2-/2-way	Clement (S)Elias	rsops2	RSR2 RSR1	RSR2A -> XRCP RSR1B -> SRCP	1, 2, 3, 4 1, 2, 3, 4	1, 16, 50, 100 1, 16, 50, 100
63 1-way	Danny (S)Jay	rsops5	WVSR1	WVSR1A -> XRCP WVSR1B -> SRCP	1, 2, 3, 4 5, 6, 7, 8 1, 2, 3, 4 5, 6, 7, 8	1, 16, 50, 100 1, 16, 50, 100 (with offset) 1, 16, 50, 100 1, 16, 50, 100 (with offset)
55 1-/3-way	Clement (S)Elias	rsops2	RSR1/RSR2	RSR1A -> XRCP RSR2B -> KRCP	1, 2, 3, 4 1, 2, 3, 4	1, 16, 50, 100 1, 16, 50, 100
55 1-/3-way	Danny (S)Jay	rsops5	PRSR	PRSR -> KRCP	1, 2, 3, 4	1, 16, 50, 100
55 1-way	Danny (S)Jay	rsops5	WVSR2	WVSR2A -> XRCP WVSR2B -> SRCP	1, 2, 3, 4 5, 6, 7, 8 1, 2, 3, 4 5, 6, 7, 8	1, 16, 50, 100 1, 16, 50, 100 (with offset) 1, 16, 50, 100 1, 16, 50, 100 (with offset)
84 3-way	Aseel	MAC/ psdg5	PRSR 168.96.250.72	PRSR -> KRCP	1, 2, 3, 4	1, 16, 50, 100 (3-way)

All the receivers on this page will record the distant chord rings occ when TLM is off

Don't record

Same fgain throughout (use TLM off fgain)

Re-set gain when TLM is off at 174/11:21:21 and don't change

	ERT UTC OWLT = 01:15:18	SCET	PDT ERT-7hrs 07:00:00	Comments
DOY 2017-173				
DSS-55: Start Pre-Cal	19:55:00	18:39:42	12:55:00	
RSSG: Start DSS-55 Open-Loop Recordings	20:55:00	19:39:42	13:55:00	
DSS-55: Beginning Of Track	21:25:00	20:09:42	14:25:00	Spacecraft is not Earth-pointed yet
RSSG: Note TLM BR 1896	21:25:00	20:09:42	14:25:00	
Spacecraft is Earth-Pointed	21:30:18	20:15:00	14:30:18	X-band signal may be detectable a few minutes earlier
DSS-55: Begin X-Band 1-Way Acquisition	21:30:18	20:15:00	14:30:18	Pc/N0 TLM ON (X-34) = 34 dB-Hz
RSSG: Enter 1-Way Open-Loop Frequency Offsets as Needed	21:30:18	20:15:00	14:30:18	
DSS-55: Transmitter ON, 18kW, LCP, RAMP, SWEEP	21:35:00	20:19:42	14:35:00	
Ka-Band ON	22:00:14	20:44:56	15:00:14	Per PEF
DSS-55: Begin Ka-Band 1-Way Acquisition	22:00:14	20:44:56	15:00:14	Pc/N0 TLM ON (Ka-34) = 48 dB-Hz
S/C at Waypoint: X-Band to Earth, POS_X to 298.6°/63.7°	22:00:18	20:45:00	15:00:18	
DSS-55: Enable Monopulse	22:03:00	20:47:42	15:03:00	> 10 deg EL. Enable/Disable Monopulse only when requested by RSSG
DSS-84: Start Pre-Cal	23:15:00	21:59:42	16:15:00	
RSSG: Start DSS-84 Open-Loop Recordings	23:30:00	22:14:42	16:30:00	
DOY 2017-174				
DSS 84: Beginning Of Track	00:00:00	22:44:42	17:00:00	
DSS-84: Do Not Acquire 1-Way Signal	00:00:00	22:44:42	17:00:00	
Start of Rev 280 RSS Saturn Gravity Observation	00:00:18	22:45:00	17:00:18	
RSSG: Note TLM BR 27650	00:00:19	22:45:01	17:00:19	
DSS-55: Disable Monopulse Without Clearing the Offsets	00:04:00	22:48:42	17:04:00	Before mode switch to 2-way; when requested by RSSG
DSS-55 Transmitter ON Observed	00:05:35	22:50:17	17:05:35	
DSS-55: Begin X- & Ka-Band 2-Way Acquisition	00:05:35	22:50:17	17:05:35	Pc/N0 TLM ON (X-34, Ka-34) = 34, 48 dB-Hz
DSS-84: Begin X- & Ka-Band 3-Way Acquisition w/DSS-55	00:05:35	22:50:17	17:05:35	
RSSG: Clear 1-Way Open-Loop Frequency Offsets	00:05:35	22:50:17	17:05:35	
DSS-55: Enable Monopulse	00:10:00	22:54:42	17:10:00	Enable/Disable Monopulse only when requested by RSSG
DSS-25: Start Pre-Cal	01:30:00	00:14:42	18:30:00	
RSSG: Note TLM BR 22120	02:00:20	00:45:02	19:00:20	
RSSG: Start DSS-25 Open-Loop Recordings	02:30:00	01:14:42	19:30:00	
DSS:25 Beginning Of Track	03:00:00	01:44:42	20:00:00	

DSS-25: Begin X- & Ka-Band 3-Way Acquisition w/DSS-55	03:00:00	01:44:42	20:00:00	Pc/N0 TLM ON (X-34, Ka-34) = 34, 48 dB-Hz
RSSG: Note TLM BR 14220	03:00:19	01:45:01	20:00:19	
DSS-55: Transmitter OFF	03:17:30	02:02:12	20:17:30	
DSS-25: Enable Monopulse	03:20:00	02:04:42	20:20:00	~10 deg EL. Enable/Disable Monopulse only when requested by RSSG
DSS-25: Transmitter ON, 18kW, LCP, RAMP	03:22:30	02:07:12	20:22:30	NO SWEEP
RSSG: Note TLM BR 22120	03:30:19	02:15:01	20:30:19	
DSS-55: Disable Monopulse	03:35:00	02:19:42	20:35:00	
DSS-55: EOT	03:35:00	02:19:42	20:35:00	
DSS-55: Post-Cal	03:50:00	02:34:42	20:50:00	
RSSG: End DSS-55 Open-Loop Recordings	03:55:00	02:39:42	20:55:00	
RSSG: Note TLM BR 27650	04:15:20	03:00:02	21:15:20	
DSS-35: Start Pre-Cal	05:40:00	04:24:42	22:40:00	
DSS-35: Fix Subreflector at 45 Degrees	05:40:00	04:24:42	22:40:00	Keep it fixed until 16:13:05
DSS-25: Disable Monopulse Without Clearing the Offsets	05:45:00	04:29:42	22:45:00	Before mode switch to 1-way; when requested by RSSG
DSS-55 Transmitter OFF Observed	05:48:06	04:32:48	22:48:06	Begin ~6 min coherent gap
DSS-25: Begin X- & Ka-Band 1-Way Acquisition	05:48:06	04:32:48	22:48:06	Pc/N0 TLM ON (X-34, Ka-34) = 34, 48 dB-Hz
DSS-84: Do Not Acquire 1-Way Signal	05:48:06	04:32:48	22:48:06	Configure for 3-way/25
RSSG: Adjust 1-Way Open-Loop Frequency Offsets as Needed	05:48:06	04:32:48	22:48:06	
DSS-25 Transmitter ON Observed	05:53:06	04:37:48	22:53:06	End ~6 min coherent gap
DSS-25: Begin X- & Ka-Band 2-Way Acquisition	05:53:06	04:37:48	22:53:06	Pc/N0 TLM ON (Ka-34, X-34) = 48, 34 dB-Hz
DSS-84: Begin X- & Ka-Band 3-Way Acquisition w/DSS-25	05:53:06	04:37:48	22:53:06	
RSSG: Clear 1-Way Open-Loop Frequency Offsets	05:53:06	04:37:48	22:53:06	
DSS-25: Enable Monopulse	05:56:00	04:40:42	22:56:00	Enable/Disable Monopulse only when requested by RSSG
DSS-43: Start Pre-Cal	06:00:00	04:44:42	23:00:00	
DSS-84: EOT	06:00:00	04:44:42	23:00:00	
DSS-84: Post-Cal	06:15:00	04:59:42	23:15:00	
RSSG: End DSS-84 Open-Loop Recordings	06:20:00	05:04:42	23:20:00	
RSSG: Start DSS-43 X-Band Open-Loop Recordings	06:30:00	05:14:42	23:30:00	
RSSG: Start DSS-35 Open-Loop Recordings	06:30:00	05:14:42	23:30:00	
DSS-43: Beginning Of Track	07:00:00	05:44:42	00:00:00	
DSS-43: Begin X-Band 3-Way Acquisition w/DSS-25	07:00:00	05:44:42	00:00:00	Pc/N0 TLM ON (X-70) = 40 dB-Hz
RSSG: Note TLM BR 47400	07:00:19	05:45:01	00:00:19	
DSS-35: Beginning Of Track	07:10:00	05:54:42	00:10:00	
DSS-35: Begin X- & Ka-Band 3-Way Acquisition w/DSS-25	07:10:00	05:54:42	00:10:00	Pc/N0 TLM ON (X-34, Ka-34) = 34, 48 dB-Hz
DSS-35: Enable Monopulse	07:18:00	06:02:42	00:18:00	~10 deg EL. Enable/Disable Monopulse only when requested by RSSG
DSS-35: Transmitter ON, 18 kW, LCP, RAMP	07:20:00	06:04:42	00:20:00	NO SWEEP. Uplink Transfer from DSS-25 to DSS-35
DSS-25: Transmitter OFF	07:20:05	06:04:47	00:20:05	
RSSG: Note TLM BR 82951	07:30:20	06:15:02	00:30:20	
RSSG: Note TLM BR 110601	08:00:19	06:45:01	01:00:19	
RSSG: Note TLM BR 124426	08:30:19	07:15:01	01:30:19	
RSSG: Start DSS-43 S-Band Open-Loop Recordings	08:50:00	07:34:42	01:50:00	

S-Band ON	09:21:20	08:06:02	02:21:20	Via real-time commands
DSS-43: Start S-Band 3-Way Acquisition w/DSS-25	09:21:20	08:06:02	02:21:20	Pc/N0 TLM ON (S-70) = 42 dB-Hz
RSSG: Note TLM BR 142201	09:30:19	08:15:01	02:30:19	
DSS-25 to DSS-35 Uplink Transfer Observed	09:50:36	08:35:18	02:50:36	
DSS-35: Start X- & Ka-Band 2-Way Acquisition	09:50:36	08:35:18	02:50:36	Pc/N0 TLM ON (X-34, Ka-34) = 34, 48 dB-Hz
DSS-43: Start X- & S-Band 3-Way Acquisition w/DSS-35	09:50:36	08:35:18	02:50:36	Pc/N0 TLM ON (X-70) = 40 dB-Hz
DSS-25: Start X- & Ka-Band 3-Way Acquisition w/DSS-35	09:50:36	08:35:18	02:50:36	Pc/N0 TLM ON (X-34, Ka-34) = 34, 48 dB-Hz
Start of Rev 280 Periapse Ring Occultation	11:21:18	10:06:00	04:21:18	Gravity observation continues
RNG OFF	11:21:18	10:06:00	04:21:18	
Redundant S-Band ON Command	11:21:20	10:06:02	04:21:20	Per PEF. In background sequence
TLM OFF	11:21:21	10:06:03	04:21:21	
Start Free-Space 2-Way/3-Way Baseline	11:21:22	10:06:04	04:21:22	Pc/N0 TLM OFF (X-70, S-70, X-34, Ka-34) = 54, 42, 48, 48 dB-Hz
DSS-25: Disable Monopulse	11:30:00	10:14:42	04:30:00	
DSS-25: EOT	11:30:00	10:14:42	04:30:00	
DSS-25: Post-Cal	11:45:00	10:29:42	04:45:00	
RSSG: End DSS-25 Open-Loop Recordings	11:50:00	10:34:42	04:50:00	
Ring C In	12:12:28	10:57:10	05:12:28	Approximate time
Saturn Closest Approach (Orbit Periapse)	12:13:05	10:57:47	05:13:05	
DSS-35: Disable Monopulse Without Clearing the Offsets	12:17:40	11:02:22	05:17:40	Enable/Disable Monopulse only when requested by RSSG
Ring C Out/Ring B In	12:17:53	11:02:35	05:17:53	Approximate time
Ring B Out	12:26:40	11:11:22	05:26:40	Approximate time
Ring A In	12:28:24	11:13:06	05:28:24	Approximate time
DSS-35: Enable Monopulse	12:30:25	11:15:07	05:30:25	Enable/Disable Monopulse only when requested by RSSG
Ring A Out	12:34:32	11:19:14	05:34:32	Approximate time
Ring F	12:36:08	11:20:50	05:36:08	Approximate time
Start Free-Space 2-Way/3-Way Baseline	12:36:09	11:20:51	05:36:09	
TLM ON	13:28:12	12:12:54	06:28:12	
RNG ON	13:28:16	12:12:58	06:28:16	
End of Rev 280 Periapse Ring Occultation	13:28:18	12:13:00	06:28:18	Gravity observation continues
RSSG: Note TLM BR 142201	13:28:19	12:13:01	06:28:19	
DSS-43: Transmitter ON, 18 kW, LCP, RAMP	13:42:29	12:27:11	06:42:29	NO SWEEP. Uplink transfer from DSS-35 to DSS-43
DSS-35: Transmitter OFF	13:42:34	12:27:16	06:42:34	
DSS-74: Start Pre-Cal	15:15:00	13:59:42	08:15:00	
RSSG: Start DSS-74 Open-Loop Recordings	15:30:00	14:14:42	08:30:00	
Start of Rev 280 Chord Ring Occultation	15:54:18	14:39:00	08:54:18	Gravity Observation Continues

RNG OFF	15:54:18	14:39:00	08:54:18	
TLM OFF	15:54:21	14:39:03	08:54:21	
DSS-74: Beginning Of Track	16:00:00	14:44:42	09:00:00	
DSS-74: Begin X- & S-Band 3-Way Acquisition/DSS-35	16:00:00	14:44:42	09:00:00	
DSS-74 Transmitter ON, 18 kW, LCP, RAMP	16:08:24	14:53:06	09:08:24	NO SWEEP. Uplink transfer from DSS-43 to DSS-74
DSS-43: Transmitter OFF	16:08:29	14:53:11	09:08:29	
DSS-35 to DSS-43 Uplink Transfer Observed	16:13:05	14:57:47	09:13:05	
DSS-43: Start X- & S-Band 2-Way Acquisition	16:13:05	14:57:47	09:13:05	Pc/N0 TLM OFF (X-70, S-70) = 54, 42 dB-Hz
DSS-35: Start X- & Ka-Band 3-Way Acquisition w/DSS-43	16:13:05	14:57:47	09:13:05	Pc/N0 TLM ON (X-34, Ka-34) = 34, 48 dB-Hz
DSS-35: Move Subreflector	16:13:05	14:57:47	09:13:05	
DSS-74: Begin X- & S-Band 3-Way Acquisition/DSS-43	16:13:05	14:57:47	09:13:05	
Ring F	17:23:26	16:08:08	10:23:26	Approximate time
Ring A In	17:31:18	16:16:00	10:31:18	Approximate time
DSS-35: Disable Monopulse	17:54:00	16:38:42	10:54:00	Enable/Disable Monopulse only when requested by RSSG
Ring A Out	18:05:42	16:50:24	11:05:42	Approximate time
DSS-55: Start Pre-Cal	18:10:00	16:54:42	11:10:00	
Ring B In	18:16:38	17:01:20	11:16:38	Approximate time
DSS-43 to DSS-74 Uplink Transfer Observed	18:39:00	17:23:42	11:39:00	In the optically thick B3 region
DSS-74: Begin X- & S-Band 2-Way Acquisition	18:39:00	17:23:42	11:39:00	
RSSG: Continue using 3-Way/DSS-43 Predicts at DSS-74	18:39:00	17:23:42	11:39:00	Since 2-way predicts are not available
DSS-43: Start X- & S-Band 3-Way Acquisition/DSS-74	18:39:00	17:23:42	11:39:00	Pc/N0 TLM OFF (X-70, S-70) = 54, 42 dB-Hz
RSSG: Continue using 2-Way Predicts at DSS-43	18:39:00	17:23:42	11:39:00	Since 3-way/74 predicts are not available
DSS-35: Start X- & Ka-Band 3-Way Acquisition w/DSS-74	18:39:00	17:23:42	11:39:00	Pc/N0 TLM ON (X-34, Ka-34) = 34, 48 dB-Hz
RSSG: Continue using 3-Way/DSS-43 Predicts at DSS-74	18:39:00	17:23:42	11:39:00	Since 3-way/74 predicts are not available
DSS-63: Start Pre-Cal	18:40:00	17:24:42	11:40:00	
RSSG: Start DSS-63 & DSS-55 Open-Loop Recordings	19:10:00	17:54:42	12:10:00	
Ring B Out/Ring C In	19:27:30	18:12:12	12:27:30	Approximate time
DSS-35: Enable Monopulse	19:30:10	18:14:52	12:30:10	Enable/Disable Monopulse only when requested by RSSG
DSS-63 & DSS-55: Beginning Of Track	19:40:00	18:24:42	12:40:00	
DSS-63: Begin X- & S-Band 3-Way Acquisition w/DSS-74	19:40:00	18:24:42	12:40:00	
DSS-55: Begin X- & Ka-Band 3-Way Acquisition w/DSS-74	19:40:00	18:24:42	12:40:00	
RSSG: Use 3-Way/DSS-43 Predicts at DSS-63 & DSS-55	19:40:00	18:24:42	12:40:00	Since 3-way/74 predicts are not available
DSS-35: Disable Monopulse	20:00:00	18:44:42	13:00:00	
DSS-43 & DSS-35: End Of Track	20:00:00	18:44:42	13:00:00	
DSS-55: Enable Monopulse	20:06:00	18:50:42	13:06:00	~10 deg EL. Monopulse only when requested by RSSG
DSS-43 & DSS-35: Post-Cal	20:15:00	18:59:42	13:15:00	
RSSG: End DSS-43 & DSS-35 Open-Loop Recordings	20:20:00	19:04:42	13:20:00	
DSS-63: Transmitter ON, 18 kW, LCP, RAMP	20:23:23	19:08:05	13:23:23	NO SWEEP. Uplink Transfer from DSS-74 to DSS-63
DSS-74: Transmitter OFF	20:23:28	19:08:10	13:23:28	Uplink Transfer from DSS-74 to DSS-63
Ring C Turn Around	20:50:30	19:35:12	13:50:30	Approximate time
DSS-84: Start Pre-Cal	21:15:00	19:59:42	14:15:00	

RSSG: Start DSS-84 Open-Loop Recordings	21:30:00	20:14:42	14:30:00	
DSS 84: Beginning Of Track	22:00:00	20:44:42	15:00:00	
DSS-84: Begin X- & Ka-Band 3-Way Acquisition w/DSS-74	22:00:00	20:44:42	15:00:00	
RSSG: Use 3-Way/DSS-43 Predicts at DSS-84	22:00:00	20:44:42	15:00:00	Since 3-way/74 predicts are not available
DSS-55: Disable Monopulse Without Clearing the Offsets	22:09:20	20:54:02	15:09:20	
Ring C Out/Ring B In	22:11:39	20:56:21	15:11:39	Approximate time
DSS-74: End Of Track	22:15:00	20:59:42	15:15:00	EOT is 21:20 ERT in the allocation file
RSSG: Switch DSS-63 Predicts to 2-Way	22:30:00	21:14:42	15:30:00	
RSSG: Switch DSS-55 Predicts to 3-Way w/DSS-63	22:30:00	21:14:42	15:30:00	
RSSG: Switch DSS-84 Predicts to 3-Way w/DSS-63	22:30:00	21:14:42	15:30:00	
DSS-74: Post-Cal	22:30:00	21:14:42	15:30:00	Post-Cal is 22:25 ERT in the allocation file
RSSG: End DSS-74 Open-Loop Recordings	22:35:00	21:19:42	15:35:00	
DSS-74 to DSS-63 Uplink Transfer Observed	22:53:59	21:38:41	15:53:59	
DSS-63: Begin X- & Ka-Band 2-Way Acquisition	22:53:59	21:38:41	15:53:59	Pc/N0 TLM OFF (X-70, S-70) = 54, 42 dB-Hz
DSS-55: Begin X- & Ka-Band 3-Way Acquisition w/DSS-63	22:53:59	21:38:41	15:53:59	Pc/N0 TLM OFF (X-34, Ka-34) = 48, 48 dB-Hz
DSS-84: Begin X- & Ka-Band 3-Way Acquisition w/DSS-63	22:53:59	21:38:41	15:53:59	
RSSG: Predicts Have Already Been Switched	22:53:59	21:38:41	15:53:59	
DSS-63: Transmitter OFF	23:13:42	21:58:24	16:13:42	
Ring B Out	23:21:15	22:05:57	16:21:15	Approximate time
Ring A In	23:31:49	22:16:31	16:31:49	Approximate time
DSS-55: Enable Monopulse	23:43:00	22:27:42	16:43:00	Enable/Disable Monopulse only when requested by RSSG
DOY 2017-175				
Ring A Out	00:04:37	22:49:19	17:04:37	Approximate time
Ring F	00:12:00	22:56:42	17:12:00	Approximate time
Start Free-Space 2-Way/3-Way Baseline	00:12:01	22:56:43	17:12:01	
End of Rev 280 RSS Saturn Gravity Observation	00:13:05	22:57:47	17:13:05	
S-Band OFF	01:43:39	00:28:21	18:43:39	Per PEF
Ka-Band OFF	01:43:41	00:28:23	18:43:41	Per PEF
DSS-55: Disable Monopulse	01:43:41	00:28:23	18:43:41	
TLM ON	01:44:12	00:28:54	18:44:12	
RSSG: Note TLM BR 1896	01:44:15	00:28:57	18:44:15	
RNG ON	01:44:16	00:28:58	18:44:16	
End of Rev 280 Chord Ring Occultation	01:44:18	00:29:00	18:44:18	
DSS-63 Transmitter OFF Observed	01:44:18	00:29:00	18:44:18	
DSS-63: Begin X-Band 1-Way Acquisition	01:44:18	00:29:00	18:44:18	Pc/N0 TLM ON (X-70) = 40 dB-Hz
DSS-55: Begin X-Band 1-Way Acquisition	01:44:18	00:29:00	18:44:18	Pc/N0 TLM ON (X-34) = 34 dB-Hz
DSS-84: Begin X-Band 1-Way Acquisition	01:44:18	00:29:00	18:44:18	

RSSG: Adjust 1-Way Open-Loop Frequency Offsets as Needed	01:44:18	00:29:00	18:44:18	
DSS-84: EOT	01:55:00	00:39:42	18:55:00	
DSS-63 & DSS-55: End Of Track	02:00:00	00:44:42	19:00:00	
DSS-84: Post-Cal	02:10:00	00:54:42	19:10:00	
DSS-63 & DSS-55: Post-Cal	02:15:00	00:59:42	19:15:00	
RSSG: End DSS-84 Open-Loop Recordings	02:15:00	00:59:42	19:15:00	
RSSG: End DSS-63 & DSS-55 Open-Loop Recordings	02:20:00	01:04:42	19:20:00	

Canberra DSS-43 & DSS-35 related activities

Madrid DSS-63 & DSS-55 related activities

Goldstone DSS-25 related activities

Malargue DSS-84 related activities

New Norcia DSS-74 related activities

Predicted ring event times are approximate and are based on reference trajectory 150901