

	ERT UTC OWLT = 01:15:56	SCET	PDT ERT-7hrs 07:00:00	Comments
<b>DOY 2017-141</b>				
DSS-35: Pre-Cal	12:05:00	10:49:04	05:05:00	
RSSG: Note TLM BR 1896	12:05:00	10:49:04	05:05:00	
DSS-35: BOT	13:35:00	12:19:04	06:35:00	Spacecraft is not Earth pointed. No downlink signals detectable
DSS-35: Transmitter ON, 18 kW, LCP, RAMP, SWEEP	13:45:00	12:29:04	06:45:00	
RSSG: Start DSS-35 Open-Loop Recordings	14:30:00	13:14:04	07:30:00	
Ka-Band ON	14:30:02	13:14:06	07:30:02	Per PEF
Spacecraft is Earth Pointed	14:59:59	13:44:03	07:59:59	
DSS-35: Begin X- & Ka-Band 1-Way Acquisition	14:59:59	13:44:03	07:59:59	Pc/N0 TLM ON (X-34, Ka-34) = 34, 48 dB-Hz
RSSG: Enter 1-Way Open-Loop Frequency Offsets as Needed	14:59:59	13:44:03	07:59:59	
DSS-35: Enable Monopulse	15:01:00	13:45:04	08:01:00	Enable/Disable Monopulse only when requested by RSSG
S/C at Waypoint: XBand to Earth, NEG_Y to 230.3°/63.6°	15:12:56	13:57:00	08:12:56	
DSS-35: Disable Monopulse Without Clearing the Offsets	16:15:00	14:59:04	09:15:00	Before mode switch to 2-way; when requested by RSSG
DSS-35 Transmitter ON Observed	16:16:52	15:00:56	09:16:52	
DSS-35: Begin X-band & Ka-Band 2-Way Acquisition	16:16:52	15:00:56	09:16:52	Pc/N0 TLM ON (X-34, Ka-34) = 34, 48 dB-Hz
DSS-35: Enable Monopulse	16:18:00	15:02:04	09:18:00	Enable/Disable Monopulse only when requested by RSSG
RSSG: Note TLM BR Change to 35550	16:30:00	15:14:04	09:30:00	
<b>Start of Rev 275 RSS Saturn Gravity Observaton</b>	16:30:13	15:14:17	09:30:13	
DSS-74: Pre-Cal	17:15:00	15:59:04	10:15:00	
RSSG: Start DSS-74 Open-Loop Recordings	17:30:00	16:14:04	10:30:00	
DSS-74: BOT	18:00:00	16:44:04	11:00:00	
DSS-74: Begin X- Band 3-Way Acquisition w/DSS-35	18:00:00	16:44:04	11:00:00	
DSS-74 Transmitter ON, 18 kW, LCP, RAMP	18:30:00	17:14:04	11:30:00	NO SWEEP. Uplink transfer from DSS-35 to DSS-74
DSS-35: Transmitter OFF	18:30:05	17:14:09	11:30:05	
RSSG: Note TLM BR Change to 33180	19:00:00	17:44:04	12:00:00	
RSSG: Note TLM BR Change to 27650	20:14:59	18:59:03	13:14:59	
DSS-55: Pre-Cal	20:30:00	19:14:04	13:30:00	
DSS-35 to DSS-74 Uplink Transfer Observed	21:01:52	19:45:56	14:01:52	

DSS-74: Begin X-Band 2-Way Acquisition	21:01:52	19:45:56	14:01:52	
RSSG: Continue Using 3-Way/35 Predicts at DSS-74	21:01:52	19:45:56	14:01:52	Since 2-way predicts are not available
DSS-35: Begin X- & Ka-Band 3-Way Acquisition w/DSS-74	21:01:52	19:45:56	14:01:52	
RSSG: Continue Using 2-Way Predicts at DSS-35	21:01:52	19:45:56	14:01:52	Since 3-way/74 predicts are not available
RSSG: Note TLM BR Change to 22120	21:14:59	19:59:03	14:14:59	
RSSG: Start DSS-55 Open-Loop Recordings	21:30:00	20:14:04	14:30:00	
RSSG: Note TLM BR Change to 14220	21:44:59	20:29:03	14:44:59	
DSS-55: BOT	22:00:00	20:44:04	15:00:00	
DSS-55: Begin X- & Ka-Band 3-Way Acquisition w/DSS-74	22:00:00	20:44:04	15:00:00	Pc/N0 TLM ON (X-34, Ka-34) = 34, 48 dB-Hz
RSSG: Use 3-Way/DSS-35 Predicts at DSS-55	22:00:00	20:44:04	15:00:00	Since 3-way/74 predicts are not available
DSS-35: Disable Monopulse	22:20:00	21:04:04	15:20:00	EOT
DSS-35: EOT	22:20:00	21:04:04	15:20:00	
DSS-55: Enable Monopulse	22:26:00	21:10:04	15:26:00	~10 deg EL. Enable/Disable Monopulse only when requested by RSSG
DSS-55 Transmitter ON, 18 kW, LCP, RAMP	22:32:00	21:16:04	15:32:00	NO SWEEP. Uplink transfer from DSS-74 to DSS-55
DSS-74 Transmitter OFF	22:32:05	21:16:09	15:32:05	
DSS-35: Post-Cal	22:35:00	21:19:04	15:35:00	
RSSG: End DSS-35 Open-Loop Recordings	22:40:00	21:24:04	15:40:00	
RSSG: Note TLM BR Change to 22120	23:00:00	21:44:04	16:00:00	
DSS-84: Pre-Cal	23:05:00	21:49:04	16:05:00	
RSSG: Start DSS-84 Open-Loop Recordings	23:20:00	22:04:04	16:20:00	
DSS-84: BOT	23:50:00	22:34:04	16:50:00	
DSS-84: Begin X- & Ka-Band 3-Way Acquisition w/DSS-74	23:50:00	22:34:04	16:50:00	
RSSG: Use 3-Way/35 Predicts at DSS-74	23:50:00	22:34:04	16:50:00	Since 3-way/74 predicts are not available
RSSG: Note TLM BR Change to 27650	23:59:59	22:44:03	16:59:59	
<b>DOY 2017-142</b>				
DSS-74: EOT	00:00:00	22:44:04	17:00:00	
DSS-84: Transmitter ON, 18 kW, LCP, RAMP	00:10:00	22:54:04	17:10:00	NO SWEEP. Uplink transfer from DSS-55 to DSS-84
DSS-55 Transmitter OFF	00:10:05	22:54:09	17:10:05	
DSS-74: Post-Cal	00:15:00	22:59:04	17:15:00	
RSSG: End DSS-74 Open-Loop Recordings	00:20:00	23:04:04	17:20:00	
RSSG: Switch DSS-55 Predicts to 2-Way	00:32:00	23:16:04	17:32:00	
RSSG: Switch DSS-84 Predicts to 3-Way/55	00:32:00	23:16:04	17:32:00	
DSS-74 to DSS-55 Uplink Transfer Observed	01:03:52	23:47:56	18:03:52	
DSS-55: Begin X- & Ka-Band 2-Way Acquisition	01:03:52	23:47:56	18:03:52	Pc/N0 TLM ON (X-34, Ka-34) = 34, 48 dB-Hz
DSS-84: Begin X- & Ka-Band 3-Way Acquisition w/DSS-55	01:03:52	23:47:56	18:03:52	
RSSG: Predicts Have Already Been Switched	01:03:52	23:47:56	18:03:52	
S-Band ON	01:37:58	00:22:02	18:37:58	Per PEF
DSS-63: Pre-Cal	02:00:00	00:44:04	19:00:00	

RSSG: Start DSS-63 Open-Loop Recordings	02:30:00	01:14:04	19:30:00	
DSS-55 to DSS-84 Uplink Transfer Observed	02:41:52	01:25:56	19:41:52	
DSS-84: Begin X- & Ka-Band 2-Way Acquisition	02:41:52	01:25:56	19:41:52	
RSSG: Continue Using 3-Way/55 Predicts at DSS-84	02:41:52	01:25:56	19:41:52	Since 2-way predicts are not available
DSS-55: Begin X- & Ka-Band 3-Way Acquisition w/DSS-84	02:41:52	01:25:56	19:41:52	Pc/N0 TLM ON (X-34, Ka-34) = 34, 48 dB-Hz
RSSG: Continue Using 2-Way Predicts at DSS-55	02:41:52	01:25:56	19:41:52	Since 3-way/84 predicts are not available
DSS-63: BOT	03:00:00	01:44:04	20:00:00	
DSS-63: Begin X- & S-Band 3-Way Acquisition w/DSS-84	03:00:00	01:44:04	20:00:00	Pc/N0 TLM ON (X-70, S-70) = 40, 42 dB-Hz
RSSG: Use 3-Way/55 Predicts at DSS-63	03:00:00	01:44:04	20:00:00	Since 3-way/84 predicts are not available
<b>Start of Rev 275 Periapse Ring Occultation</b>	03:37:56	02:22:00	20:37:56	Gravity observation continues
RNG OFF	03:37:56	02:22:00	20:37:56	Pc/N0 TLM OFF (X-70, S-70) = 54, 42 dB-Hz
TLM OFF	03:37:59	02:22:03	20:37:59	Pc/N0 TLM OFF (X-34, Ka-34) = 48, 48 dB-Hz
DSS-25: Pre-Cal	03:45:00	02:29:04	20:45:00	
DSS-14: Pre-Cal	04:15:00	02:59:04	21:15:00	
<b>Saturn Closest Approach (Orbit Periares)</b>	04:30:13	03:14:17	21:30:13	
Ring C In	04:30:20	03:14:24	21:30:20	Approximate time
DSS-55: Disable Monopulse Without Clearing the Offsets	04:35:28	03:19:32	21:35:28	Enable/Disable Monopulse only when requested by RSSG
Ring C Out/Ring B In	04:35:43	03:19:47	21:35:43	Approximate time
Ring B Out	04:44:28	03:28:32	21:44:28	Approximate time
RSSG: Start DSS-14 & DSS-25 Open-Loop Recordings	04:45:00	03:29:04	21:45:00	
Ring A In	04:46:12	03:30:16	21:46:12	Approximate time
DSS-55: Enable Monopulse	04:48:00	03:32:04	21:48:00	Enable/Disable Monopulse only when requested by RSSG
Ring A Out	04:52:21	03:36:25	21:52:21	Approximate time
Ring F	04:53:56	03:38:00	21:53:56	Approximate time
DSS-14 & DSS-25: BOT	05:15:00	03:59:04	22:15:00	
DSS-14: Begin X- & S-Band 3-Way Acquisition w/DSS-84	05:15:00	03:59:04	22:15:00	Pc/N0 TLM OFF (X-70, S-70) = 54, 42 dB-Hz
DSS-25: Begin X- & Ka-Band 3-Way Acquisition w/DSS-84	05:15:00	03:59:04	22:15:00	Pc/N0 TLM OFF (X-34, Ka-34) = 48, 48 dB-Hz
DSS-25: Enable Monopulse	05:35:00	04:19:04	22:35:00	~10 deg EL. Enable/Disable Monopulse only when requested by RSSG
<b>DSS-14 Transmitter ON, 18 kW, LCP, RAMP</b>	05:40:00	04:24:04	22:40:00	<b>NO SWEEP.</b> Uplink transfer from DSS-84 to DSS-14
<b>DSS-84 Transmitter OFF</b>	05:40:05	04:24:09	22:40:05	
TLM ON	05:44:50	04:28:54	22:44:50	Pc/N0 TLM ON (X-70, X-34) = 40, 34 dB-Hz
RNG ON	05:44:54	04:28:58	22:44:54	
<b>End of Rev 275 Periapse Ring Occultation</b>	05:44:56	04:29:00	22:44:56	Gravity observation continues
RSSG: Note TLM BR Change to 82951	05:44:58	04:29:02	22:44:58	

DSS-55: Disable Monopulse	05:55:00	04:39:04	22:55:00	EOT
DSS-55: EOT	05:55:00	04:39:04	22:55:00	
RSSG: Note TLM BR Change to 99541	05:59:59	04:44:03	22:59:59	
DSS-63: EOT	06:00:00	04:44:04	23:00:00	
DSS-55: Post-Cal	06:10:00	04:54:04	23:10:00	
DSS-63: Post-Cal	06:15:00	04:59:04	23:15:00	
RSSG: End DSS-63 & DSS-55 Open-Loop Recordings	06:20:00	05:04:04	23:20:00	
RSSG: Note TLM BR Change to 110601	06:29:58	05:14:02	23:29:58	
RSSG: Note TLM BR Change to 124426	06:59:58	05:44:02	23:59:58	
DSS-35: Pre-Cal	07:55:00	06:39:04	00:55:00	
<b>Start of Rev 275 Ingress Chord Ring Occultation</b>	08:02:56	06:47:00	01:02:56	Gravity observation continues
RNG OFF	08:02:56	06:47:00	01:02:56	
TLM OFF	08:02:59	06:47:03	01:02:59	
DSS-84 to DSS-14 Uplink Transfer Observed	08:11:52	06:55:56	01:11:52	
DSS-84: Start X- and Ka-Band 3-Way Acquisition w/DSS-14	08:11:52	06:55:56	01:11:52	
DSS-14: Begin X- & S-Band 2-Way Acquisition	08:11:52	06:55:56	01:11:52	Pc/N0 TLM OFF (X-70, S-70) = 54, 42 dB-Hz
DSS-25: Begin X- & Ka-Band 3-Way Acquisition w/DSS-14	08:11:52	06:55:56	01:11:52	Pc/N0 TLM OFF (X-34, Ka-34) = 48, 48 dB-Hz
DSS-43: Pre-Cal	08:15:00	06:59:04	01:15:00	
RSSG: Start DSS-43 & DSS-35 Open-Loop Recordings	08:45:00	07:29:04	01:45:00	
DSS-43: BOT	09:15:00	07:59:04	02:15:00	
DSS-43: Begin X- & S-Band 3-Way Acquisition w/DSS-14	09:15:00	07:59:04	02:15:00	Pc/N0 TLM OFF (X-70, S-70) = 54, 42 dB-Hz
DSS-35: BOT	09:25:00	08:09:04	02:25:00	
DSS-35: Begin X- & Ka-Band 3-Way Acquisition w/DSS-14	09:25:00	08:09:04	02:25:00	Pc/N0 TLM OFF (X-34, Ka-34) = 48, 48 dB-Hz
DSS-35: Enable Monopulse	09:33:00	08:17:04	02:33:00	~10 deg EL. Enable/Disable Monopulse only when requested by RSSG
Ring F	09:33:11	08:17:15	02:33:11	
Ring A In	09:40:33	08:24:37	02:40:33	Approximate time
DSS-84: EOT	10:00:00	08:44:04	03:00:00	
DSS-35: Disable Monopulse Without Clearing the Offsets	10:02:00	08:46:04	03:02:00	Enable/Disable Monopulse only when requested by RSSG
DSS-25: Disable Monopulse Without Clearing the Offsets	10:02:00	08:46:04	03:02:00	Enable/Disable Monopulse only when requested by RSSG
Ring A Out	10:12:13	08:56:17	03:12:13	Approximate time
DSS-84: Post-Cal	10:15:00	08:59:04	03:15:00	
RSSG: End DSS-84 Open-Loop Recordings	10:20:00	09:04:04	03:20:00	
Ring B In	10:22:01	09:06:05	03:22:01	Approximate time
<b>DSS-43 Transmitter ON, 18 kW, LCP, RAMP</b>	<b>10:30:00</b>	<b>09:14:04</b>	<b>03:30:00</b>	<b>NO SWEEP. Uplink transfer from DSS-14 to DSS-43</b>
<b>DSS-14 Transmitter OFF</b>	<b>10:30:05</b>	<b>09:14:09</b>	<b>03:30:05</b>	
Ring B Out/Ring C In	11:19:40	10:03:44	04:19:40	Approximate time

DSS-35: Enable Monopulse	11:21:30	10:05:34	04:21:30	Enable/Disable Monopulse only when requested by RSSG
DSS-25: Enable Monopulse	11:21:30	10:05:34	04:21:30	Enable/Disable Monopulse only when requested by RSSG
Top of the Ionosphere	11:57:07	10:41:11	04:57:07	Approximate time
Ring C Out	12:06:59	10:51:03	05:06:59	
<b>End of Rev 275 Ingress Chord Ring Occultation</b>	12:37:56	11:22:00	05:37:56	
<b>Start of Rev 275 Egress Chord Ring Occultation</b>	12:37:56	11:22:00	05:37:56	
DSS-14 to DSS-43 Uplink Transfer Observed	13:01:52	11:45:56	06:01:52	
DSS-43: Begin X- & S-Band 2-Way Acquisition	13:01:52	11:45:56	06:01:52	Pc/N0 TLM OFF (X-70, S-70) = 54, 42 dB-Hz
DSS-35: Begin X- & Ka-Band 3-Way Acquisition w/DSS-43	13:01:52	11:45:56	06:01:52	Pc/N0 TLM OFF (X-34, Ka-34) = 48, 48 dB-Hz
DSS-14: Begin X- & S-Band 3-Way Acquisition w/DSS-43	13:01:52	11:45:56	06:01:52	Pc/N0 TLM OFF (X-70, S-70) = 54, 42 dB-Hz
DSS-25: Begin X- & Ka-Band 3-Way Acquisition w/DSS-43	13:01:52	11:45:56	06:01:52	Pc/N0 TLM OFF (X-34, Ka-34) = 48, 48 dB-Hz
Top of the Ionosphere	13:30:00	12:14:04	06:30:00	
DSS-25: Disable Monopulse	13:45:00	12:29:04	06:45:00	EOT
DSS-14 & DSS-25: EOT	13:45:00	12:29:04	06:45:00	
DSS-14 & DSS-25: Post-Cal	14:00:00	12:44:04	07:00:00	
RSSG: End DSS-14 & DSS-25 Open-Loop Recordings	14:05:00	12:49:04	07:05:00	
Ring C In	14:34:32	13:18:36	07:34:32	Approximate time
DSS-35: Disable Monopulse Without Clearing the Offsets	15:19:40	14:03:44	08:19:40	Enable/Disable Monopulse only when requested by RSSG
Ring C Out/Ring B In	15:21:26	14:05:30	08:21:26	Approximate time
<b>DSS-43 Transmitter OFF</b>	<b>16:03:00</b>	14:47:04	09:03:00	
Ring B Out	16:17:48	15:01:52	09:17:48	Approximate time
Ring A In	16:27:13	15:11:17	09:27:13	Approximate time
<b>End of Rev 275 Saturn Gravity Observations</b>	16:30:23	15:14:27	09:30:23	
DSS-35: Enable Monopulse	16:37:00	15:21:04	09:37:00	
Ring A Out	16:57:14	15:41:18	09:57:14	Approximate time
Ring F	17:04:07	15:48:11	10:04:07	Approximate time
S-Band OFF	18:34:17	17:18:21	11:34:17	Per PEF
Ka-Band OFF	18:34:19	17:18:23	11:34:19	Per PEF
DSS-35: Disable Monopulse	18:34:19	17:18:23	11:34:19	Enable/Disable Monopulse only when requested by RSSG
TLM ON	18:34:50	17:18:54	11:34:50	
RSSG: Note TLM BR Change to 1896	18:34:52	17:18:56	11:34:52	
DSS-63 Transmitter OFF Observed	18:34:52	17:18:56	11:34:52	
RNG ON	18:34:54	17:18:58	11:34:54	

<b>End of Rev 275 Egress Chord Ring Occultaion</b>	18:34:56	17:19:00	11:34:56	
Begin Spacecraft Turn Away from Earth Point	18:34:56	17:19:00	11:34:56	Loss of X-band signal
DSS-43 & DSS-35: EOT	18:40:00	17:24:04	11:40:00	
DSS-43 & DSS-35: Post-Cal	18:55:00	17:39:04	11:55:00	
RSSG: End DSS-43 & DSS-35 Open-Loop Recordings	19:00:00	17:44:04	12:00:00	