

## Timeline for Cassini Rev 89 RSS Occultation of Saturn's Rings on October 17, 2008 (DOY 291)

Essam Marouf 10/14/2008 (v4)

	ERT UTC OWLT = 1:24:11	SCET	PDT ERT-7hrs 7:00:00	Comments
DSS-34: Start Precal	1:15:00	23:50:49	18:15:00	
Start of RSS3a Op-Mode	1:24:53	0:00:42	18:24:53	
DSS-43: Start Precal	1:45:00	0:20:49	18:45:00	
DSS-54: Start Precal	2:30:00	1:05:49	19:30:00	
DSS-34 & 43: Begin of Track	2:45:00	1:20:49	19:45:00	
DSS-63: Start Precal	3:00:00	1:35:49	20:00:00	
SNT Measurements (all bands)	TBD			
DSS-47: Start of Track	3:30:00	2:05:49	20:30:00	
Start Observation Period	3:49:11	2:25:00	20:49:11	S/C HGA is Earth pointed; S/X/Ka-band downlink
TWNC ON	3:49:11	2:25:00	20:49:11	
TLM OFF	3:49:16	2:25:05	20:49:16	
Start Free-Space Baseline	3:49:17	2:25:06	20:49:17	Pc/N0 (X70, X&Ka34, S70) = ~54, 48, 48, and 42 dB
DSS-34: Enable Monopulse	TBD			Enable monopulse until signal is lost behind the rings
DSS-54 & 63 Begin of Track	4:00:00	2:35:49	21:00:00	
DSS-54: Enable Monopulse	TBD			Enable monopulse until signal is lost behind the rings
Ring A in	4:10:05	2:45:54	21:10:05	Very fast changing signal dynamics
Ring B in	4:11:50	2:47:39	21:11:50	Signals likely absent over most of Ring B
Ring B out	4:17:15	2:53:04	21:17:15	Very fast changing signal dynamics
Ring A out	4:19:00	2:54:49	21:19:00	Pc/N0 (X70, X&Ka34, S70) = ~54, 48, 48, and 42 dB
End of Free-Space Baseline	4:33:46	3:09:35	21:33:46	
End of RSS3a Op-Mode	4:33:47	3:09:36	21:33:47	Loss of S- and Ka-bands

TLM ON	4:34:05	3:09:54	21:34:05	
TWNC OFF	4:34:09	3:09:58	21:34:09	
End of Observation Period	4:34:11	3:10:00	21:34:11	
SNT measurements	TBD			
DSS-47: End of Track	4:45:00	3:20:49	21:45:00	
DSS-34 & 43: End of Track	4:45:00	3:20:49	21:45:00	
DSS-34 & 43: End Postcal	5:00:00	3:35:49	22:00:00	
SNT measurement	TBD			
DSS-54 End of Track	7:15:00	5:50:49	0:15:00	
DSS-54 End of Postcal	7:30:00	6:05:49	0:30:00	
DSS-63 End of Track	13:35:00	12:10:49	6:35:00	
DSS-63 End of Postcal	13:50:00	12:25:49	6:50:00	

Indicates DSS-34 & DSS-43 Realted Activities

Indicates DSS-54 & DSS-63 Realted Activities

Ring event times are based on OTM 167 OD on 10/100/2008 (81010AP\_SCPSE\_08282\_08315.bsp)