Rev 9 Cassini Radio Science Occultation: Event Times on DOY 2005-159

Essam Marouf 06/02/05

	SCET UTC	ERT UTC OWLT = 1:22:03	Pacific Time GMT-7hrs 7:00:00	Comments
Start LMB	8:42:57	10:05:00	3:05:00	Off Earth Point
Behind Saturn				
DSS-25: Begin-of-Track	14:57:57	16:20:00	9:20:00	No signal at start of track; blind poionting
DSS-26: Begin-of-Track	14:57:57	16:20:00	9:20:00	No signal at start of track; blind poionting
DSS-55: Begin-of-Track	14:57:57	16:20:00	9:20:00	No signal at start of track; blind pointing
Start of Egress	15:47:28	17:09:31	10:09:31	Observations start on blind pointing
Troposphere out	16:18:56	17:40:59	10:40:59	Signal level builds up systematically
Ionosphere out	16:28:21	17:50:24	10:50:24	Strong signal level
DSS-25: Enable Monopulse	16:28:27	17:50:30	10:50:30	Monopulse enabled at ~68,000 km impact radius
DSS-26: Enable Monopulse	16:28:27	17:50:30	10:50:30	Monopulse enabled at ~68,000 km impact radius
Ring C in	16:31:10	17:53:13	10:53:13	Strong, dynamically changing signal level
DSS-25: Disable Monopulse	16:52:57	18:15:00	11:15:00	Monopulse offset used to reintialize blind pointin
DSS-26: Disable Monopulse	16:52:57	18:15:00	11:15:00	Monopulse offset used to reintialize blind pointin
Ring B in	16:53:18	18:15:21	11:15:21	Signal level drops substantially
Ring B out	17:25:37	18:47:40	11:47:40	Signal level is small in Ring B
DSS-25: Enable Monopulse	17:25:57	18:48:00	11:48:00	Monopulse enabled ~20 s after exit from Ring B
DSS-26: Enable Monopulse	17:25:57	18:48:00	11:48:00	Monopulse enabled ~20 s after exit from Ring B
Ring A in	17:31:23	18:53:26	11:53:26	Clear dynamic signal throughout most of Ring A
Enke Gap	17:46:11	19:08:14	12:08:14	Strong signal
Ring A out	17:50:18	19:12:21	12:12:21	Sudden transition to free-space signal level
Ring F	17:55:09	19:17:12	12:17:12	Rings F is only detectable in postprocessing
End of Baseline	18:26:28	19:48:31	12:48:31	Strong signal level
End LMB	19:16:57	20:39:00	13:39:00	End of the rev 9 radio occultation experiment
DSS-25: End-of-Track	19:22:57	20:45:00	13:45:00	
DSS-26: End-of-Track	19:22:57	20:45:00	13:45:00	
DSS-55: End-of-Track	19:22:57	20:45:00	13:45:00	

Note: Some Ring Edges are known to be noncircular, which will affect event times above

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