Rev 13 Cassini Radio Science Ring Occultation: Event Times on DOY 2005-232 Essam Marouf 08/18/05

	SCET UTC	ERT UTC	Pacific Time	_
		OWLT =	GMT-7hrs	Comments
		1:23:14	7:00:00	
Behind Saturn				
DSS-26: Begin-of-Track	16:36:46	18:00:00		No signal at start of track; blind pointing
DSS-25: Begin-of-Track	16:51:46	18:15:00	11:15:00	No signal at start of track; blind pointing
Start GMB	17:22:00	18:45:14	11:45:14	Behind Saturn; no signals expected
Strong Ka, X, S Signals	17:57:42	19:20:56		Full strength; weaker signals appear shortly before
Troposphere out	17:57:42	19:20:56	12:20:56	Fortuitous stratospheric occultation
Ionosphere out	18:08:08	19:31:22	12:31:22	Fortuitous ionospheric occultation
DSS-25: Enable Monopulse	18:08:38	19:31:52	12:31:52	Monopulse enabled at ~68,000 km impact rad
DSS-26: Enable Monopulse	18:08:38	19:31:52	12:31:52	Monopulse enabled at ~68,000 km impact rad
Ring C in	18:16:47	19:40:01	12:40:01	Strong, dynamically changing signal level
DSS-25: Disable Monopulse	18:39:39	20:02:53	13:02:53	Monopulse offset used to reintialize blind pointing
DSS-26: Disable Monopulse	18:39:39	20:02:53	13:02:53	Monopulse offset used to reintialize blind pointing
Ring B in	18:40:19	20:03:33	13:03:33	Signal level drops substantially
Ring B out	19:14:29	20:37:43	13:37:43	Signal level is small in Ring B
DSS-25: Enable Monopulse	19:15:00	20:38:14	13:38:14	Monopulse enabled ~30 s after exit from Ring B
DSS-26: Enable Monopulse	19:15:00	20:38:14	13:38:14	Monopulse enabled ~30 s after exit from Ring B
Ring A in	19:20:34	20:43:48	13:43:48	Clear dynamic signal throughout most of Ring A
Enke Gap	19:36:07	20:59:21	13:59:21	Strong signal
Ring A out	19:40:27	21:03:41	14:03:41	Sudden transition to free-space signal level
Ring F	19:45:32	21:08:46		Rings F is only detectable in postprocessing
End GMB	20:41:14	22:04:28	15:04:28	End of the rev 13 ring occultation experiment
DSS-25: End-of-Track	21:11:46	22:35:00	15:35:00	
DSS-26: End-of-Track	21:11:46	22:35:00	15:35:00	

Note: Some Ring Edges are known to be noncircular, which will affect event times above Monoplulse strategy above is preliminary and may be changed in realtime