Cassini T34: Titan Inbound Bistatic Scattering Observation July 18-19. 2007 (DOY 199-200)

Essam Marouf, 07/07/07 (v2)

	ERT UTC	SCET UTC OWLT = 1:24:04	PDT ERT - 7 hrs 7:00:00	Comments
Start Precals DSS 14 Start Precals DSS 25, 26, 43, 34 Load Free-Space Predicts	20:45:00 21:00:00	19:20:56 19:35:56	13:45:00 14:00:00	See separate detailed Precals worksheets
Begin-of-Track DSS 14 Begin-of-Track DSS 25, 26, 43 Begin-of-Track DSS 34	23:45:00 0:00:00 0:10:00	22:20:56 22:35:56 22:45:56	16:45:00 17:00:00 17:10:00	No Cassini downlink signals till shortly before 01:04:12
Start Bistatic Minical 1 End Bistatic Minical 1				See separate Minical 1 worksheets for time sequence Should end before the turn to Earth starts at 00:57:31
TLM OFF/TWNC ON/ RNG OFF Start turn to Earth point Start 6 minutes free-space baseline	0:57:24 0:57:31 1:04:16	23:33:20 23:33:27 23:40:12	17:57:24 17:57:31 18:04:16	PC/N0 ~ 54, 48, 48, & 41 dB-Hz for X70, K34, X34, S70
Enable Monopulse: DSS 25, 26, 34? Disable Monopulse: DSS 25, 26, 34?	1.04.10	23.40.12	10.04.10	Start/End times are provided to the operators in real-time Keep/Clear the offsets decision made in real-time
End free-space baseline Start turn to Titan surface	1:10:21 1:10:23	23:46:17 23:46:19	18:10:21 18:10:23	Quick loss of of all three carriers
End Turn to Titan surface Start Bistatic Observations	1:17:57 1:17:58	23:53:53 23:53:54	18:17:57 18:17:58	HGA boresight is pointed to Titan's surface Potential weak RCP & LCP surface echo centered within the
End Bistatic Observations Start turn to new waypoint	2:22:54 2:22:56	0:58:50 0:58:52	19:22:54 19:22:56	observations bandwidth
End Turn to new wapoint TLM ON/TWNC OFF/RNG ON End of T34 RSS Observation	2:29:51 2:30:18 2:30:24	1:05:46 1:06:14 1:06:20	19:29:51 19:30:18 19:30:24	No detectable signals at the end of the observation
Start Bistatic Minical 2 End Bistatic Minical 2				See separate Minical 2 worksheets for time sequence
End-of-Track DSS 14, 25, 26, 43, 34 End of Postcals DSS 14, 25, 26, 43, 34	3:30:00 4:30:00	3:05:56 3:05:56	20:30:00 21:30:00	

DSN Activities
SWITCHING OF FREQUENCY PREDICTS

CASSINI RSS