

# **TOST: Handoff 017TI (T8)**

Segment Boundary 2005-300T18:29 – 2005-302T09:49  
Titan C/A=2005-301T04:15:10, Altitude=1353 km  
Epoch = GMB\_E017\_Titan8

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## T8 Science Objectives

**RADAR** - SAR imaging of dark terrain west of Xanadu, including observations of Huygens landing site.

**INMS** - Determine atmospheric and ionospheric composition and thermal structure

**CAPS** - Observations of Titan's interaction with Saturn's magnetosphere

**CIRS** - Obtain vertical profiles of temperatures, HCN, and C<sub>2</sub>H<sub>2</sub> in Titan's tropopause, stratosphere, and on the surface. CIRS will also obtain information on trace constituents in the stratosphere.

**ISS** – Monitor for surface and atmospheric changes, including cloud motion. Will perform medium and high resolution imaging.

## T8 Science Objectives

**MAG** - T 8 is the first close encounter that is upstream of Titan with penetration deep into the magnetic pile-up region of Titan's upstream interaction region. This is adjacent to the ionopause region, if one believes theoretical models, and therefore very diagnostic with regard to physical understanding. If some low shock-like feature occurs at least temporarily this flyby will have a very good chance to see it. Grade 1 priority.

**MIMI** - Investigate micro-scale and near aspects of Titan's interaction with Saturn's magnetosphere by observing during a one hour period around closest approach.

**RPWS** - Observations in the immediate vicinity of Titan, including thermal plasma density and temperature measurements with the Langmuir probe. RPWS will also search for lightning and other radio emissions, perform a characterization of the plasma wave spectrum, and search for evidence of pickup ions.

Start Time	End Time	Prime Activity	Obs Detail	Op Mode	TLM Mode	Comments
300T18:29:00	300T18:59	SP turn to WP		RADAR_WU	SN_ER_5A	Nac Titan, Neg_X Sun
300T18:59	300T19:14	Dead Time		RADAR_WU	SN_ER_3	
-09:01	-08:14	ISS GLOBMAP		RADAR_WU	SN_ER_3	
-08:14	-04:48	VIMS MEDRES		RADAR_WU	SN_ER_3	
-04:48	-04:15	ISS HIRES		RADAR_WU	SN_ER_3	
-04:15	-03:45	SP turn to WP		RADAR_WU	SN_ER_8	NEG_Z Titan, POS_X NTP
-03:45	-01:43	RADAR RAD		RADAR_RWA	SN_ER_8	
-01:43	-01:21	Transition to RCS		RADAR_RCS	SN_ER_8	
-01:21	-00:32	RADAR SCAT		RADAR_RCS	SN_ER_8	
-00:32	-00:15	RADAR ALT		RADAR_RCS	SN_ER_8	
-00:15	-00:03	RADAR SAR		RADAR_RCS	SN_ER_8	
-00:03	+00:03	RADAR SAR		RADAR_RCS	SN_ER_8	
+00:03	+00:15	RADAR SAR		RADAR_RCS	SN_ER_8	
+00:15	+00:32	RADAR ALT		RADAR_RCS	SN_ER_8	
+00:32	+01:21	RADAR SCAT		RADAR_RCS	SN_ER_8	
+01:21	+01:45	Transition to RWA		RADAR_RWA	SN_ER_8	
+01:45	+05:10	RADAR RAD		RADAR_RWA	SN_ER_8	
+05:10	+05:40	SP turn to WP		DFPW_N	SN_ER_3	NAC Titan, NEG_X Sun
+05:40	+09:00	CIRS MIDIRLMBMAP		DFPW_N	SN_ER_3	
+09:00	+12:00	CIRS FIRNADCMP		DFPW_N	SN_ER_3	
+12:00	+19:48:50	CIRS MIDIRTMAP		DFPW_N	SN_ER_3	
302T00:04	302T00:19	Dead Time		DFPW_N	SN_ER_3	
302T00:19	302T00:49	SP turn to D/L		DFPW_N	SN_ER_3	
302T00:49	302T09:49	D/L to M70		DFPW_N		



# T8 TOL

017TI (T8)

Request	Start Time	Epoch	Duration	End Time	Rate	Mb	SPASS Type	Primary Pointing	Secondary Pointing	Pointing Agr
CAPS_017SA_SURVEY002_RIDER	2005-300T18:29:00		000T07:46:10	2005-301T02:15:10	1000	27.297	Non-SPASS			
CAPS_017SA_SURVEY004_RIDER	2005-301T06:15:10	GMB_E017_Titan8+000T02:00:00	002T10:45:26	2005-303T17:00:36	1000	211.526	Non-SPASS			
CAPS_017TI_T8CLOSE001_RADAR	2005-301T03:15:10	GMB_E017_Titan8-000T01:00:00	000T02:00:00	2005-301T05:15:10	16000	115.2	SPASS Rider			
CAPS_017TI_T8INBD001_RADAR	2005-301T02:15:10	GMB_E017_Titan8-000T02:00:00	000T01:00:00	2005-301T03:15:10	4000	14.4	SPASS Rider			
CAPS_017TI_T8OUTBND001_RADAR	2005-301T05:15:10	GMB_E017_Titan8+000T01:00:00	000T01:00:00	2005-301T06:15:10	4000	14.4	SPASS Rider			
CDA_017DR_0900DUST091_RIDER	2005-302T09:18:03		000T00:53:07	2005-302T10:11:10	524	1.67	Non-SPASS			
CDA_017DR_1000DUST090_RIDER	2005-302T06:58:24		000T01:27:39	2005-302T08:26:03	524	2.756	Non-SPASS			
CDA_017DR_1100DUST089_RIDER	2005-302T02:38:11		000T03:28:13	2005-302T06:06:24	524	6.546	Non-SPASS			
CDA_017DR_1300DUST088_RIDER	2005-301T21:31:28		000T03:04:42	2005-302T00:36:10	524	5.807	Non-SPASS			
CDA_017DR_1500DUST087_RIDER	2005-301T16:03:10		000T03:26:17	2005-301T19:29:27	524	6.486	Non-SPASS			
CDA_017DR_1700DUST095_RIDER	2005-300T13:01:00		001T01:00:09	2005-301T14:01:09	149.9	13.489	Non-SPASS			
CDA_017RI_0900RINGM011_RIDER	2005-302T08:27:04		000T00:49:59	2005-302T09:17:03	524	1.571	Non-SPASS			
CDA_017RI_1000RINGM011_RIDER	2005-302T06:07:25		000T00:49:59	2005-302T06:57:24	524	1.571	Non-SPASS			
CDA_017RI_1200RINGM011_RIDER	2005-302T00:37:11		000T02:00:00	2005-302T02:37:11	524	3.773	Non-SPASS			
CDA_017RI_1400RINGM011_RIDER	2005-301T19:30:28		000T02:00:00	2005-301T21:30:28	524	3.773	Non-SPASS			
CDA_017RI_1600RINGM013_RIDER	2005-301T14:02:11		000T02:00:00	2005-301T16:02:11	524	3.773	Non-SPASS			
CIRS_017IC_DSCAL1263_RIDER	2005-302T00:19:00		000T06:00:00	2005-302T06:19:00	4000	86.4	SPASS Rider			
CIRS_017IC_DSCALSHRT229_RIDER	2005-301T00:00:10	GMB_E017_Titan8-000T04:15:00	000T00:30:00	2005-301T00:30:10	4000	7.2	SPASS Rider			
CIRS_017IC_DSCALSHRT231_RIDER	2005-300T18:29:00		000T00:30:00	2005-300T18:59:00	4000	7.2	SPASS Rider			
CIRS_017IC_DSCALSHRT232_RIDER	2005-302T00:05:10	GMB_E017_Titan8+000T19:50:00	000T00:30:00	2005-302T00:35:10	4000	7.2	SPASS Rider			
CIRS_017TI_FIRNADCOMP003_PRIME	2005-301T13:15:10	GMB_E017_Titan8+000T09:00:00	000T03:00:00	2005-301T16:15:10	4000	43.2	Prime	CIRS_FP1 to Titan	NEG_X to Sun	
CIRS_017TI_FIRNADCOMP003_SI	2005-301T13:15:10	GMB_E017_Titan8+000T09:00:00	000T03:00:00	2005-301T16:15:10	0	4	SPASS Rider			
CIRS_017TI_FIRNADMAP002_ISS	2005-300T19:31:10	GMB_E017_Titan8-000T08:44:00	000T00:30:00	2005-300T20:01:10	2000	3.6	SPASS Rider			
CIRS_017TI_FIRNADMAP003_VIMS	2005-300T20:01:10	GMB_E017_Titan8-000T08:14:00	000T03:26:00	2005-300T23:27:10	2000	24.72	SPASS Rider			
CIRS_017TI_FIRNADMAP004_ISS	2005-300T23:27:10	GMB_E017_Titan8-000T04:48:00	000T00:33:00	2005-301T00:00:10	2000	3.96	SPASS Rider			
CIRS_017TI_MIDIRTMAP005_PRIME	2005-301T16:15:10	GMB_E017_Titan8+000T12:00:00	000T07:48:51	2005-302T00:04:01	2280	64.139	Prime	CIRS_FPB to Titan	POS_X to North_Pole_Dir	
CIRS_017TI_MIDIRTMAP005_SI	2005-301T16:15:10	GMB_E017_Titan8+000T12:00:00	000T08:05:00	2005-302T00:20:10	0	8	SPASS Rider			
CIRS_017TI_MIRLMBMAP003_PRIME	2005-301T09:55:10	GMB_E017_Titan8+000T05:40:00	000T03:20:00	2005-301T13:15:10	4000	48	Prime	CIRS_FPB to Titan	PIC	
CIRS_017TI_MIRLMBMAP003_SI	2005-301T09:55:10	GMB_E017_Titan8+000T05:40:00	000T03:20:00	2005-301T13:15:10	0	9	SPASS Rider			
ENGR_017SC_DFPW301_PPS	2005-301T09:19:35	GMB_E017_Titan8+000T05:04:25	000T00:05:35	2005-301T09:25:10	0	0	Non-SPASS			
ENGR_017SC_RADRCS301_PPS	2005-301T02:32:10	GMB_E017_Titan8-000T01:43:00	000T00:21:13	2005-301T02:53:23	0	0	Prime			
ENGR_017SC_RADRWA300_PPS	2005-301T00:30:10	GMB_E017_Titan8-000T03:45:00	000T00:00:44	2005-301T00:30:54	0	0	Non-SPASS			
ENGR_017SC_RADRWA301_PPS	2005-301T05:36:10	GMB_E017_Titan8+000T01:21:00	000T00:23:18	2005-301T05:59:28	0	0	Prime			
ENGR_017SC_RADWU300_PPS	2005-300T21:30:10	GMB_E017_Titan8-000T06:45:00	000T00:00:09	2005-300T21:30:19	0	0	Non-SPASS			
INMS_017SA_SURVEY002_RIDER	2005-301T16:15:10	GMB_E017_Titan8+000T12:00:00	000T17:45:03	2005-302T10:00:13	50	3.195	Non-SPASS			
INMS_017TI_T8CLOSE001_RADAR	2005-301T03:15:10	GMB_E017_Titan8-000T01:00:00	000T02:00:00	2005-301T05:15:10	1498	10.786	Non-SPASS			
INMS_017TI_T8INBD001_RADAR	2005-300T16:29:34		000T10:45:36	2005-301T03:15:10	100	3.806	Non-SPASS			
INMS_017TI_T8OUTBD001_RADAR	2005-301T05:15:10	GMB_E017_Titan8+000T01:00:00	000T11:00:00	2005-301T16:15:10	100	3.96	Non-SPASS			
ISS_017TI_FIRNADCOMP003_CIRS	2005-301T13:15:10	GMB_E017_Titan8+000T09:00:00	000T03:00:00	2005-301T16:15:10	0	30	SPASS Rider			
ISS_017TI_GLOBMAP001_PRIME	2005-300T19:14:10	GMB_E017_Titan8-000T09:01:00	000T00:47:00	2005-300T20:01:10	0	180	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_017TI_HIGHRESNA001_PRIME	2005-300T23:27:10	GMB_E017_Titan8-000T04:48:00	000T00:33:00	2005-301T00:00:10	0	150	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_017TI_MEDRES001_VIMS	2005-300T20:01:10	GMB_E017_Titan8-000T08:14:00	000T03:26:00	2005-300T23:27:10	0	300	SPASS Rider			
ISS_017TI_MIDIRTMAP005_CIRS	2005-301T16:15:10	GMB_E017_Titan8+000T12:00:00	000T06:09:00	2005-301T22:24:10	0	78	SPASS Rider			
ISS_017TI_MIRLMBMAP003_CIRS	2005-301T09:55:10	GMB_E017_Titan8+000T05:40:00	000T01:00:00	2005-301T10:55:10	0	28	SPASS Rider			
MAG_017OT_SURVEY001_RIDER	2005-300T18:29:00		000T05:46:10	2005-301T00:15:10	600	12.058	Non-SPASS			
MAG_017OT_SURVEY005_RIDER	2005-301T07:15:10	GMB_E017_Titan8+000T03:00:00	001T02:45:03	2005-302T10:00:13	600	57.782	Non-SPASS			
MAG_017TI_MAGTITAN001_PRIME	2005-301T00:15:10	GMB_E017_Titan8-000T04:00:00	000T07:00:00	2005-301T07:15:10	1976	49.795	Non-SPASS			
MIMI_017CO_SURVEY002_MAPS	2005-300T18:29:00		000T07:46:10	2005-301T02:15:10	900	24.254	Non-SPASS			
MIMI_017CO_SURVEY003_MAPS	2005-301T06:15:10	GMB_E017_Titan8+000T02:00:00	001T03:50:51	2005-302T10:06:01	900	90.226	Non-SPASS			
MIMI_017TI_T8CLOSE001_RADAR	2005-301T03:15:10	GMB_E017_Titan8-000T01:00:00	000T02:00:00	2005-301T05:15:10	1800	12.96	SPASS Rider			
MIMI_017TI_T8INBD001_RADAR	2005-301T02:15:10	GMB_E017_Titan8-000T02:00:00	000T01:00:00	2005-301T03:15:10	1800	6.48	SPASS Rider			
MIMI_017TI_T8OUTBND001_RADAR	2005-301T05:15:10	GMB_E017_Titan8+000T01:00:00	000T01:00:00	2005-301T06:15:10	1800	6.48	SPASS Rider			



# T8 TOL (cont')

017TI (T8)

MP_011NA_DSS43DOWN001_NA	2005-199T00:00:00		168T00:00:00	2006-002T00:00:00	0	0	Non-SPASS		
MP_014NA_DSS15DOWN001_NA	2005-255T00:00:00		069T00:00:00	2005-324T00:00:00	0	0	Non-SPASS		
MP_016NA_SEQUENCE015_NA	2005-281T12:30:00		035T04:31:00	2005-316T17:01:00	0	0	SPASS Note		
MP_017EA_OCCTITAN017_NA	2005-017T04:07:08		000T00:16:38	2005-301T04:23:46	0	0	Non-SPASS		
MP_017SA_REV017_NA	2005-293T23:59:00		023T04:58:00	2005-317T04:57:00	0	0	Non-SPASS		
MP_017TI_FLYBYT008_NA	2005-301T03:58:09		000T00:00:01	2005-301T03:58:10	0	0	Non-SPASS		
RADAR_017OT_Ti8P0WARM001_RIDER	2005-300T21:30:10	GMB_E017_Titan8-000T06:45:00	000T03:00:00	2005-301T00:30:10	255.4	2.758	SPASS Rider		
RADAR_017TI_Ti8P1RADJ001_PRIME	2005-301T00:30:10	GMB_E017_Titan8-000T03:45:00	000T02:02:00	2005-301T02:32:10	4997.8	36.584	Prime	NEG_Z to Titan	POS_X to North_Pole_Dir
RADAR_017TI_Ti8P2SCAT001_PRIME	2005-301T02:54:10	GMB_E017_Titan8-000T01:21:00	000T00:49:00	2005-301T03:43:10	29986.6	88.16	Prime	NEG_Z to Titan	POS_X to North_Pole_Dir
RADAR_017TI_Ti8P3ALTI001_PRIME	2005-301T03:43:10	GMB_E017_Titan8-000T00:32:00	000T00:16:48	2005-301T03:59:58	29986.6	30.226	Prime	NEG_Z to Titan	POS_X to Titan_SC_RAM
RADAR_017TI_Ti8P4LSAR001_PRIME	2005-301T03:59:58	GMB_E017_Titan8-000T00:15:12	000T00:12:12	2005-301T04:12:10	225008.6	164.706	Prime	NEG_Z to Titan	POS_X to Titan_SC_RAM
RADAR_017TI_Ti8P5HSAR001_PRIME	2005-301T04:12:10	GMB_E017_Titan8-000T00:03:00	000T00:06:00	2005-301T04:18:10	364982.4	131.394	Prime	NEG_Z to Titan	POS_X to Titan_SC_RAM
RADAR_017TI_Ti8P6LSAR001_PRIME	2005-301T04:18:10	GMB_E017_Titan8+000T00:03:00	000T00:12:00	2005-301T04:30:10	225008.6	162.006	Prime	NEG_Z to Titan	POS_X to Titan_SC_RAM
RADAR_017TI_Ti8P7ALTO001_PRIME	2005-301T04:30:10	GMB_E017_Titan8+000T00:15:00	000T00:17:00	2005-301T04:47:10	29986.6	30.586	Prime	NEG_Z to Titan	POS_X to Titan_SC_RAM
RADAR_017TI_Ti8P8SCAT001_PRIME	2005-301T04:47:10	GMB_E017_Titan8+000T00:32:00	000T00:49:00	2005-301T05:36:10	29986.6	88.16	Prime	NEG_Z to Titan	POS_X to North_Pole_Dir
RADAR_017TI_Ti8P9RADO001_PRIME	2005-301T06:00:10	GMB_E017_Titan8+000T01:45:00	000T03:25:00	2005-301T09:25:10	4997.8	61.472	Prime	NEG_Z to Titan	POS_X to North_Pole_Dir
RPWS_017SA_EQPVDUST001_RPWS	2005-302T07:03:16	E017_PerI-000T15:42:00	000T02:10:30	2005-302T09:13:46	7000	54.81	Non-SPASS		
RPWS_017SA_INSURVEY001_PRIME	2005-301T19:10:00		000T14:39:00	2005-302T09:49:00	1310	69.09	Non-SPASS		
RPWS_017SA_OUTSURVEY003_PRIME	2005-301T06:15:10	GMB_E017_Titan8+000T02:00:00	000T12:40:26	2005-301T18:55:36	1310	59.771	Non-SPASS		
RPWS_017SA_OUTSURVEY005_PRIME	2005-300T18:29:00		000T08:00:34	2005-301T02:29:34	1310	37.773	Non-SPASS		
RPWS_017TI_TICA001_PRIME	2005-301T03:47:10	GMB_E017_Titan8-000T00:28:00	000T00:55:00	2005-301T04:42:10	60921.9	201.042	Non-SPASS		
RPWS_017TI_TIIINTRMED001_PRIME	2005-301T02:15:10	GMB_E017_Titan8-000T02:00:00	000T01:32:00	2005-301T03:47:10	3500	19.32	Non-SPASS		
RPWS_017TI_TIIINTRMED002_PRIME	2005-301T04:42:10	GMB_E017_Titan8+000T00:27:00	000T01:33:00	2005-301T06:15:10	3500	19.53	Non-SPASS		
SP_017EA_DLTURN302_PRIME	2005-302T00:19:00		000T00:30:00	2005-302T00:49:00	0	0	Prime	XBAND to Earth	POS_X to NEP
SP_017EA_M70ARRNON302_PRIME	2005-302T00:49:00		000T09:00:00	2005-302T09:49:00	0	0	Prime	XBAND to Earth	Rolling
SP_017NA_DEADTIME300_PRIME	2005-300T18:59:00		000T00:15:00	2005-300T19:14:00	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun
SP_017NA_DEADTIME302_PRIME	2005-302T00:04:00		000T00:15:00	2005-302T00:19:00	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun
SP_017NA_M34BWGRSS302_SP	2005-302T00:49:00		000T09:00:00	2005-302T09:49:00	0	0	Non-SPASS		
SP_017NA_M70ARRNON302_SP	2005-302T00:49:00		000T09:00:00	2005-302T09:49:00	0	0	Non-SPASS		
SP_017NA_M70OBSNON302_NA	2005-300T18:29:00		001T06:20:00	2005-302T00:49:00	0	0	Non-SPASS		
SP_017NA_TOSTSEG300_NA	2005-300T18:29:00		001T15:20:00	2005-302T09:49:00	0	0	SPASS Note		
SP_017TI_WAYPTTURN300_PRIME	2005-300T18:29:00		000T00:30:00	2005-300T18:59:00	0	0	New Waypoint	ISS_NAC to Titan	NEG_X to Sun
SP_017TI_WAYPTTURN301_PRIME	2005-301T00:00:10	GMB_E017_Titan8-000T04:15:00	000T00:30:00	2005-301T00:30:10	0	0	New Waypoint	NEG_Z to Titan	POS_X to North_Pole_Dir
SP_017TI_WAYPTTURN501_PRIME	2005-301T09:25:10	GMB_E017_Titan8+000T05:10:00	000T00:30:00	2005-301T09:55:10	0	0	New Waypoint	ISS_NAC to Titan	NEG_X to Sun
UVIS_017SW_IPHSURVEY022_RIDER	2005-302T00:49:00		000T09:10:00	2005-302T09:59:00	76	2.507	Non-SPASS		
UVIS_017TI_FIRNADCMP003_CIRS	2005-301T13:15:10	GMB_E017_Titan8+000T09:00:00	000T03:00:00	2005-301T16:15:10	1006.4	10.869	SPASS Rider		
UVIS_017TI_HIGHRES001_ISS	2005-300T23:27:10	GMB_E017_Titan8-000T04:48:00	000T00:33:00	2005-301T00:00:10	5032	9.963	SPASS Rider		
UVIS_017TI_MEDRES001_VIMS	2005-300T20:01:10	GMB_E017_Titan8-000T08:14:00	000T03:26:00	2005-300T23:27:10	1006.4	12.439	SPASS Rider		
UVIS_017TI_MIRLMBINT001_CIRS	2005-301T09:55:10	GMB_E017_Titan8+000T05:40:00	000T03:20:00	2005-301T13:15:10	1006.4	12.077	SPASS Rider		
UVIS_017TI_MONITORNA001_ISS	2005-300T19:31:10	GMB_E017_Titan8-000T08:44:00	000T00:30:00	2005-300T20:01:10	5032	9.058	SPASS Rider		
UVIS_017TI_NIGHTNAC001_ISS	2005-301T16:15:10	GMB_E017_Titan8+000T12:00:00	000T06:30:00	2005-301T22:45:10	5032	117.749	SPASS Rider		
VIMS_017TI_HIRES001_ISS	2005-300T23:27:10	GMB_E017_Titan8-000T04:48:00	000T00:33:00	2005-301T00:00:10	50505.1	100	SPASS Rider		
VIMS_017TI_LIMBNADIR001_CIRS	2005-301T09:55:10	GMB_E017_Titan8+000T05:40:00	000T12:29:00	2005-301T22:24:10	4450.4	200	SPASS Rider		
VIMS_017TI_MEDRES001_PRIME	2005-300T20:01:10	GMB_E017_Titan8-000T08:14:00	000T03:26:00	2005-300T23:27:10	16181.2	200	Prime	ISS_NAC to Titan	PIC
VIMS_017TI_MONITOR001_ISS	2005-300T19:31:10	GMB_E017_Titan8-000T08:44:00	000T00:30:00	2005-300T20:01:10	27777.8	50	SPASS Rider		

# T8 SPASS

Request	Riders	Start (SCET)	Start (Epoch)	Duration	End (SCET)	Primary	Secondary	Comments
Sequence S015, length = 35 ...		2005-281T15:57:00	E016_SEQUENCE_015+000T00	035T01:04:00	2005-316T17:01:00			
TOST rev 17 Segment		2005-300T18:29:00		001T15:20:00	2005-302T09:49:00			
SP_017TI_WAYPTTURN300_PRIME	C	2005-300T18:29:00		000T00:30:00	2005-300T18:59:00	ISS_NAC to Titan	NEG_X to Sun	
<b>NEW WAYPOINT</b>		<b>2005-300T18:59:00</b>		<b>000T05:31:09</b>	<b>2005-301T00:30:09</b>	<b>ISS_NAC to Titan</b>	<b>NEG_X to Sun</b>	
<b>SP_017NA_DEADTIME300_PRIME</b>		<b>2005-300T18:59:00</b>		<b>000T00:15:00</b>	<b>2005-300T19:14:00</b>	<b>ISS_NAC to Titan</b>	<b>NEG_X to Sun</b>	
ISS_017TI_GLOMAP001_PRIME	C, U, V	2005-300T19:31:09	GMB_E017_Titan8-000T08:44:00	000T00:30:00	2005-300T20:01:09	ISS_NAC to Titan	NEG_X to Sun	
VIMS_017TI_MEDRES001_PRIME	C, I, R, U	2005-300T20:01:09	GMB_E017_Titan8-000T08:14:00	000T03:26:00	2005-300T23:27:09	ISS_NAC to Titan	PIC	
ISS_017TI_HIGHRESNA001_PRIME	C, R, U, V	2005-300T23:27:09	GMB_E017_Titan8-000T04:48:00	000T00:33:00	2005-301T00:00:09	ISS_NAC to Titan	NEG_X to Sun	
SP_017TI_WAYPTTURN301_PRIME	C, R	2005-301T00:00:09	GMB_E017_Titan8-000T04:15:00	000T00:30:00	2005-301T00:30:09	NEG_Z to Titan	POS_X to North_Pole_Dir	
<b>NEW WAYPOINT</b>		<b>2005-301T00:30:09</b>		<b>000T09:25:00</b>	<b>2005-301T09:55:09</b>	<b>NEG_Z to Titan</b>	<b>POS_X to North_Pole_Dir</b>	
RADAR_017TI_Ti8P1RADI001_PRIME	M	2005-301T00:30:09	GMB_E017_Titan8-000T03:45:00	000T02:02:00	2005-301T02:32:09	NEG_Z to Titan	POS_X to North_Pole_Dir	
RADAR_017TI_Ti8P2SCAT001_PRIME	M	2005-301T02:54:09	GMB_E017_Titan8-000T01:21:00	000T00:49:00	2005-301T03:43:09	NEG_Z to Titan	POS_X to North_Pole_Dir	
RADAR_017TI_Ti8P3ALTI001_PRIME	M	2005-301T03:43:09	GMB_E017_Titan8-000T00:32:00	000T00:16:48	2005-301T03:59:57	NEG_Z to Titan	POS_X to SC_RAM	
RADAR_017TI_Ti8P4LSAR001_PRIME	M	2005-301T03:59:57	GMB_E017_Titan8-000T00:15:12	000T00:12:12	2005-301T04:12:09	NEG_Z to Titan	POS_X to SC_RAM	
RADAR_017TI_Ti8P5HSAR001_PRIME	M	2005-301T04:12:09	GMB_E017_Titan8-000T00:03:00	000T00:06:00	2005-301T04:18:09	NEG_Z to Titan	POS_X to SC_RAM	
RADAR_017TI_Ti8P6LSAR001_PRIME	M	2005-301T04:18:09	GMB_E017_Titan8+000T00:03:00	000T00:12:00	2005-301T04:30:09	NEG_Z to Titan	POS_X to SC_RAM	
RADAR_017TI_Ti8P7ALTO001_PRIME	M	2005-301T04:30:09	GMB_E017_Titan8+000T00:15:00	000T00:17:00	2005-301T04:47:09	NEG_Z to Titan	POS_X to SC_RAM	
RADAR_017TI_Ti8P8SCAT001_PRIME	M	2005-301T04:47:09	GMB_E017_Titan8+000T00:32:00	000T00:49:00	2005-301T05:36:09	NEG_Z to Titan	POS_X to North_Pole_Dir	
RADAR_017TI_Ti8P9RADO001_PRIME	M	2005-301T06:00:09	GMB_E017_Titan8+000T01:45:00	000T03:25:00	2005-301T09:25:09	NEG_Z to Titan	POS_X to North_Pole_Dir	
SP_017TI_WAYPTTURN501_PRIME		2005-301T09:25:09	GMB_E017_Titan8+000T05:10:00	000T00:30:00	2005-301T09:55:09	ISS_NAC to Titan	NEG_X to Sun	
<b>NEW WAYPOINT</b>		<b>2005-301T09:55:09</b>		<b>000T23:53:51</b>	<b>2005-302T09:49:00</b>	<b>ISS_NAC to Titan</b>	<b>NEG_X to Sun</b>	
CIRS_017TI_MIRLMBMAP003_PRIME	C, I, U, V	2005-301T09:55:09	GMB_E017_Titan8+000T05:40:00	000T03:20:00	2005-301T13:15:09	CIRS_FPB to Titan	PIC	
CIRS_017TI_FIRNADCMP003_PRIME	C, I, U, V	2005-301T13:15:09	GMB_E017_Titan8+000T09:00:00	000T03:00:00	2005-301T16:15:09	CIRS_FP1 to Titan	NEG_X to Sun	
CIRS_017TI_MIDIPTMAP005_PRIME	C, I, U, V	2005-301T16:15:09	GMB_E017_Titan8+000T12:00:00	000T08:05:00	2005-302T00:20:09	CIRS_FPB to Titan	POS_X to North_Pole_Dir	
<b>SP_017NA_DEADTIME302_PRIME</b>	<b>C</b>	<b>2005-302T00:04:00</b>		<b>000T00:15:00</b>	<b>2005-302T00:19:00</b>	<b>ISS_NAC to Titan</b>	<b>NEG_X to Sun</b>	
SP_017EA_DLTURN302_PRIME	C	2005-302T00:19:00		000T00:30:00	2005-302T00:49:00	XBAND to Earth	POS_X to NEP	
SP_017EA_M70ARRNON302_PRIME	C	2005-302T00:49:00		000T09:00:00	2005-302T09:49:00	XBAND to Earth	Rolling	

# Data Volume Report

DATA VOLUME SUMMARY --- TRANSFER FRAME OVERHEAD INCLUDED (80 BITS PER 8800-BIT FRAME)

DOWNLINK PASS NAME	Start doy hh:mm	End doy hh:mm	OBSERVATION_PERIOD								DOWNLINK_PASS						
			P4				P5				RECORDED			PLAYBACK			
			START (Mb)	SCI (Mb)	HK+E (Mb)	TOTAL (Mb)	CPACTY (Mb)	MRGN (Mb)	OPNAV (Mb)	SCI (Mb)	ENGR (Mb)	TOTAL (Mb)	CPACTY (Mb)	MARGN (Mb)	NET_MARGN (Mb)	NET_MARGN (%)	CAROVR (Mb)
SP_017EA_M70ARRNON302_PRIME	302 00:49	302 09:49	0	3408	112	3520	3498	-22	0	281	53	3832	3892	61	38	1%	0

DATA VOLUME REPORT --- TRANSFER FRAME OVERHEAD NOT INCLUDED

Event	Start doy hh:mm	End doy hh:mm	CAPS (Mb)	CDA (Mb)	CIRS (Mb)	INMS (Mb)	ISS (Mb)	MAG (Mb)	MIMI (Mb)	RADAR (Mb)	RPWS (Mb)	UVIS (Mb)	VIMS (Mb)	PROBE (Mb)	ENGR (Mb)	TOTAL (Mb)
OBSERVATION_NOR	300 18:29	302 00:49	238.8	30.7	209.2	19.4	766.0	100.2	111.2	794.2	364.1	172.2	550.0	0.0	0.0	3356.1
OBSERVATION_SI	300 18:29	302 00:49	0.0	0.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.0
SP_017EA_M70ARRNON302_PRIME	302 00:49	302 09:49	32.4	16.8	79.2	1.6	0.0	19.4	29.2	0.0	97.3	2.5	0.0	0.0	0.0	278.4
DAILY TOTAL SCIENCE	300 18:29	302 09:49	271.2	47.6	309.4	21.1	766.0	119.6	140.4	794.2	461.3	174.6	550.0	0.0		



# Telemetry Rates

## TELEMETRY MODE REPORT

SCET	TELEMETRY MODE	REQUEST
2005-300T18:29:00.000	S_N_ER_5A	SP_017NA_M70OBSNON302_NA
2005-300T18:59:00.000	S_N_ER_3	SP_017NA_M70OBSNON302_NA
2005-301T00:00:10.000	S_N_ER_8	SP_017NA_M70OBSNON302_NA
2005-301T09:25:10.000	S_N_ER_3	SP_017NA_M70OBSNON302_NA
2005-302T00:49:00.000	RTE_N_SPB_142200	SP_017EA_M70ARRNON302_PRIME
2005-302T09:34:00.000	RTE_N_SPB_124425	SP_017EA_M70ARRNON302_PRIME

# DSN Report

CASSINI DOWNLINK/DSN COVERAGE SUMMARY for T8.apf generated on 2005-Jun-07 09:58:29

(+ = pass overlaps with previous pass; \* = conflicts with DSN weekly maintenance; o = overlaps occultation)

DOWNLINK PASS					DSN PASS						
NAME	START_TO_END SCET	START_TO_END ERT	DUR hh:mm	DATA_RATES kbps	ID	START_TO_END SCET	START_TO_END ERT	DUR hh:mm	CALS min	LABEL	CNFG
M70ARRNON302	302T00:49-09:49	302T02:05-11:05	09:00	142,124	55	302T00:49-09:49	302T02:05-11:05	09:00	90/15	T/P RSS	N750
				^-- and also -->	63	302T00:49-09:49	302T02:05-11:05	09:00	60/15	TP ARR	N003

# NAV Report

CASSINI NAVIGATION SUMMARY for T8.apf generated on 2005-Jun-07 09:59:59

(+ = pass overlaps with previous pass; \* = conflicts with DSN weekly maintenance; o = overlaps occultation)

ON EARTH-LINE FOR DOWNLINK			TRACKING SUPPORT								
NAME	START_TO_END SCET	DUR hh:mm	ID	BOT_TO_EOT UTC	GND_UPLINK UTC	ARRIV_SC SCET	RCV_GND ERT	2-WAY hh:mm	DOP OK?	RNG OK?	
-(missing)--	-----	-----		gap	in doppler data of 34 hours	-----	-----	-----	NO	NO	
M70ARRNON302	302T00:49-09:49	09:00		55	302T02:05-11:05	02:15-11:00	03:31-09:49	04:47-11:05	06:18	Y? YES	
				63	302T02:05-11:05	02:15-10:36	03:31-09:49	04:47-11:05	06:18	YES YES	

## T8 Open Issues

- None