

TOST Handoff Package 028TI (T17)

Segment: 2006-249T21:06:00 – 2006-251T21:06:00
Titan C/A: 2006-250T20:12:04, Altitude = 950 km
Epoch: GMB_E028_Titan17

April 1, 2003

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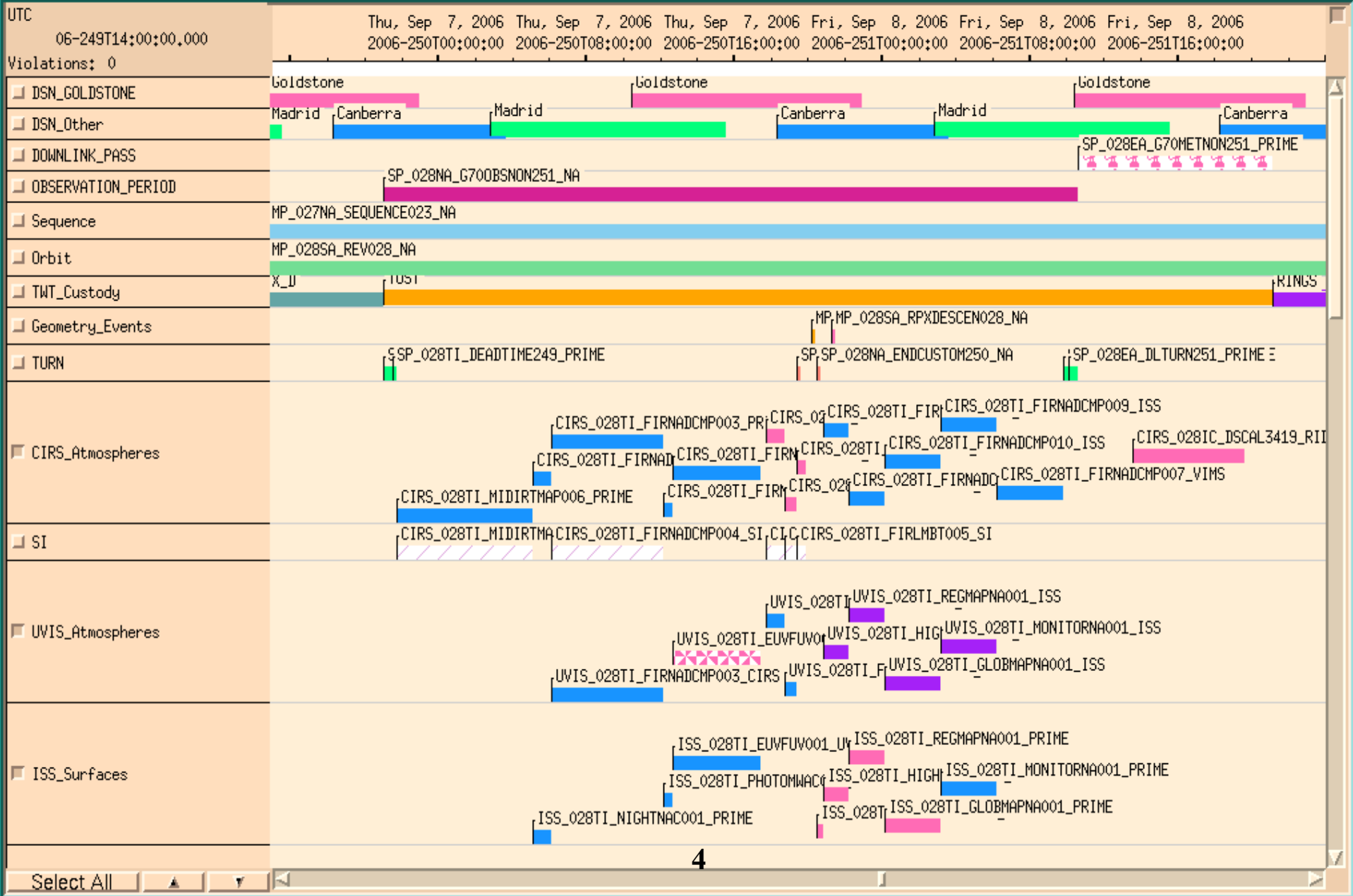
028TI(T17) Timeline

C/A= 2006-250T20:12:04 @ 950 km

Start Time	End Time	Prime Activity	Obs. Detail	Op Mode	TLM Mode	Comments
249T21:06	249T21:36	SP Turn to waypoint	NAC to Titan, -X to Sun	DFPW Normal	S_N_ER_3	
249T21:36	249T21:51	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
-22:20	-15:00	CIRS_028TI_MIDIRTMAP006_PRIME		DFPW Normal	S_N_ER_3	
-15:00	-14:00	ISS_028TI_NIGHTNAC001_PRIME		DFPW Normal	S_N_ER_3	
-14:00	-08:00	CIRS_028TI_FIRNADCMP003_PRIME		DFPW Normal	S_N_ER_3	
-08:00	-07:30	ISS_028TI_PHOTOMWAC001_PRIME		DFPW Normal	S_N_ER_3	
-07:30	-02:45	UVIS_028TI_EUVFUV001_PRIME		DFPW Normal	S_N_ER_3	
-02:45	-02:24	Transition RWA to RCS		ORS_RCS	S_N_ER_3	
-02:24	-01:24	CIRS_028TI_FIRLMBINT002_PRIME		ORS_RCS	S_N_ER_3	
-01:24	-00:45	CIRS_028TI_FIRLMBBAER002_PRIME		RAD_RCS	S_N_ER_5A, S_N_ER_2	_5A until -01:09, _2 until -00:03
-00:45		Begin Custom Period				
-00:45	-00:15	CIRS_028TI_FIRLMBT002_PRIME		RAD_RCS	S_N_ER_2	End at VIMS occ attitude
-00:15	-00:08	VIMS_028TI_STAROCC001_PRIME		RAD_RCS	S_N_ER_2	
-00:08	+00:17	INMS	NEG_X to RAM	RAD_RCS	S_N_ER_2, S_N_ER_8, S_N_ER_2	Start at VIMS attitude; rotate to/from RADAR SAR; end at waypoint; _2 until -00:03, _8 until +00:02, _2 until +00:17
+00:17		End Custom Period				
+00:17	+00:40	Transition RCS to RWA		DFPW Normal	S_N_ER_3	
+00:40	+02:00	ISS_028TI_HIGHRESNA001_PRIME		DFPW Normal	S_N_ER_3	
+02:00	+04:00	ISS_028TI_REGMAPNA001_PRIME		DFPW Normal	S_N_ER_3	
+04:00	+07:00	ISS_028TI_GLOBMAPNA001_PRIME		DFPW Normal	S_N_ER_3	
+07:00	+10:00	ISS_028TI_MONITORNA001_PRIME		DFPW Normal	S_N_ER_3	
+10:00	+13:38	VIMS_028TI_PHOTOMETR002_PRIME		DFPW Normal	S_N_ER_3	
251T09:51	251T10:06	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
251T10:06	251T10:36	SP Turn to Earth for downlink	XBAND to Earth, -X to NEP	DFPW Normal	S_N_ER_3	
251T10:36	251T21:06	Downlink over Goldstone	XBAND to Earth, rolling	DFPW Normal	RTE_N_SPB	10.5 hrs req'd to return 2 SSRs



028TI (T17) ORS Only



CIMS TOL for 028TI (T17)

Request	Start Time	Epoch	Relative Start Time	Duration	EndTime	Effective Rate (bps)	Data Volume (10 ⁶ bits)	SPASS Type	Primary Pointing	Secondary Pointing	Agreement
CIRS_028T1_MIDRTMAP06_PRIME	2006-249721:52.04	GMB	E028_Titan17-000722:20.00	000707:20.00	2006-250705:12.04	2000	52.8	Prime	CIRS_FPB to Titan	NEG_X to Sun	
CIRS_028T1_MIDRTMAP07_SI	2006-249721:52.04	GMB	E028_Titan17-000722:20.00	000707:20.00	2006-250705:12.04	0	8	SPASS Rider			
CIRS_028T1_FIRNADMAP06_ISS	2006-250705:12.04	GMB	E028_Titan17-000715:00.00	000701:00.00	2006-250706:12.04	2000	7.2	SPASS Rider			
CIRS_028T1_FIRNADMAP03_PRIME	2006-250706:12.04	GMB	E028_Titan17-000714:00.00	000706:00.00	2006-250712:12.04	3000	64.5	Prime	CIRS_FPB to Titan	FC	
CIRS_028T1_FIRNADMAP04_SI	2006-250706:12.04	GMB	E028_Titan17-000714:00.00	000706:00.00	2006-250712:12.04	0	7	SPASS Rider			
CIRS_028T1_FIRNADMAP05_ISS	2006-250712:12.04	GMB	E028_Titan17-000708:00.00	000700:30.00	2006-250712:42.04	2000	3.6	SPASS Rider			
CIRS_028T1_FIRNADMAP02_LVIMS	2006-250712:42.04	GMB	E028_Titan17-000707:30.00	000704:45.00	2006-250717:27.04	2000	34.2	SPASS Rider			
CIRS_028T1_FIRNADMAP02_PRIME	2006-250717:48.04	GMB	E028_Titan17-000702:24.00	000701:00.00	2006-250718:48.04	4000	14.4	Prime	CIRS_FPB to Titan	FC	
CIRS_028T1_FIRNADMAP04_SI	2006-250717:48.04	GMB	E028_Titan17-000702:24.00	000701:00.00	2006-250718:48.04	0	2	SPASS Rider			
CIRS_028T1_FIRNADMAP02_PRIME	2006-250718:48.04	GMB	E028_Titan17-000701:24.00	000700:39.00	2006-250719:27.04	2000	4.68	Prime	CIRS_FPB to Titan	FC	
CIRS_028T1_FIRNADMAP04_SI	2006-250718:48.04	GMB	E028_Titan17-000701:24.00	000700:39.00	2006-250719:27.04	0	2	SPASS Rider			
CIRS_028T1_FIRNADMAP02_PRIME	2006-250719:27.04	GMB	E028_Titan17-000700:45.00	000700:30.00	2006-250719:57.04	2000	3.6	Prime	CIRS_FPB to Titan	FC	End at VIMS_IR to 101.287/-16.716 and NEG_X to SC RAM
CIRS_028T1_FIRNADMAP04_SI	2006-250719:27.04	GMB	E028_Titan17-000700:45.00	000700:30.00	2006-250719:57.04	0	2	SPASS Rider			
CIRS_028T1_FIRNADMAP02_ISS	2006-250720:52.04	GMB	E028_Titan17+000700:40.00	000701:20.00	2006-250722:12.04	2000	9.6	SPASS Rider			
CIRS_028T1_FIRNADMAP08_ISS	2006-250722:12.04	GMB	E028_Titan17+000702:00.00	000702:00.00	2006-251100:12.04	2000	14.4	SPASS Rider			
CIRS_028T1_FIRNADMAP10_ISS	2006-251100:12.04	GMB	E028_Titan17+000704:00.00	000703:00.00	2006-251103:12.04	2000	21.6	SPASS Rider			
CIRS_028T1_FIRNADMAP09_ISS	2006-251103:12.04	GMB	E028_Titan17+000707:00.00	000703:00.00	2006-251106:12.04	2000	21.6	SPASS Rider			
CIRS_028T1_FIRNADMAP07_VIMS	2006-251106:12.04	GMB	E028_Titan17+000710:00.00	000703:38.00	2006-251109:50.04	2000	28.16	SPASS Rider			
CIRS_028C_DSCAL3419_RIDER	2006-251113:36.00			000706:00.00	2006-251119:36.00	3200	69.12	SPASS Rider			
Request	Start Time	Epoch	Relative Start Time	Duration	EndTime	Effective Rate (bps)	Data Volume (10 ⁶ bits)	SPASS Type	Primary Pointing	Secondary Pointing	Agreement
ISS_028T1_NIGHTNAC01_PRIME	2006-250705:12.04	GMB	E028_Titan17-000715:00.00	000701:00.00	2006-250706:12.04	0	20	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_028T1_PHOTOMAC01_PRIME	2006-250712:12.04	GMB	E028_Titan17-000708:00.00	000700:30.00	2006-250712:42.04	0	30	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_028T1_EUVFV001_LVIMS	2006-250712:42.04	GMB	E028_Titan17-000707:30.00	000704:45.00	2006-250717:27.04	0	20	SPASS Rider			
ISS_028T1_TRANSIT001_AAACS	2006-250720:29.04	GMB	E028_Titan17-000700:17.00	000700:23.00	2006-250720:52.04	0	20	SPASS Rider			
ISS_028T1_HGHRRESNA01_PRIME	2006-250722:12.04	GMB	E028_Titan17+000700:40.00	000701:20.00	2006-251100:12.04	0	212	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_028T1_REGMAPNA01_PRIME	2006-250722:12.04	GMB	E028_Titan17+000702:00.00	000702:00.00	2006-251100:12.04	0	309	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_028T1_GLOBMAPNA01_PRIME	2006-251100:12.04	GMB	E028_Titan17+000704:00.00	000703:00.00	2006-251103:12.04	0	135	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_028T1_MONITORNA01_PRIME	2006-251103:12.04	GMB	E028_Titan17+000707:00.00	000703:00.00	2006-251106:12.04	0	252	Prime	ISS_NAC to Titan	NEG_X to Sun	
Request	Start Time	Epoch	Relative Start Time	Duration	EndTime	Effective Rate (bps)	Data Volume (10 ⁶ bits)	SPASS Type	Primary Pointing	Secondary Pointing	Agreement
LVIMS_028T1_FIRNADMAP03_CIRS	2006-250706:12.04	GMB	E028_Titan17-000714:00.00	000706:00.00	2006-250712:12.04	503.2	10.869	SPASS Rider			
LVIMS_028T1_EUVFV001_PRIME	2006-250712:42.04	GMB	E028_Titan17-000707:30.00	000704:45.00	2006-250717:27.04	503.2	86.047	Prime	ISS_NAC to Titan	NEG_X to Sun	
LVIMS_028T1_FIRNADMAP02_CIRS	2006-250717:48.04	GMB	E028_Titan17-000702:24.00	000701:00.00	2006-250718:48.04	1006.4	3.63	SPASS Rider			
LVIMS_028T1_FIRNADMAP02_CIRS	2006-250718:48.04	GMB	E028_Titan17-000701:24.00	000700:39.00	2006-250719:27.04	1006.4	2.355	SPASS Rider			
LVIMS_028T1_HGHRRESNA01_ISS	2006-250720:52.04	GMB	E028_Titan17+000700:40.00	000701:20.00	2006-250722:12.04	1006.4	4.831	SPASS Rider			
LVIMS_028T1_REGMAPNA01_ISS	2006-250722:12.04	GMB	E028_Titan17+000702:00.00	000702:00.00	2006-251100:12.04	4025.6	28.984	SPASS Rider			
LVIMS_028T1_GLOBMAPNA01_ISS	2006-251100:12.04	GMB	E028_Titan17+000704:00.00	000703:00.00	2006-251103:12.04	1006.4	10.869	SPASS Rider			
LVIMS_028T1_MONITORNA01_ISS	2006-251103:12.04	GMB	E028_Titan17+000707:00.00	000703:00.00	2006-251106:12.04	1006.4	10.869	SPASS Rider			
LVIMS_028SW_PHSURVEY002_RIDER	2006-251110:36.00			000710:30.00	2006-251121:06.00	76	2.872	Non-SPASS			
Request	Start Time	Epoch	Relative Start Time	Duration	EndTime	Effective Rate (bps)	Data Volume (10 ⁶ bits)	SPASS Type	Primary Pointing	Secondary Pointing	Agreement
VIMS_028T1_MAPMONT001_ISS	2006-249721:52.04	GMB	E028_Titan17-000722:20.00	000708:20.00	2006-250706:12.04	1333.3	40	SPASS Rider			
VIMS_028T1_MAP001_CIRS	2006-250706:12.04	GMB	E028_Titan17-000714:00.00	000706:00.00	2006-250712:12.04	1851.9	40	SPASS Rider			
VIMS_028T1_PHOTOMETR001_ISS	2006-250712:12.04	GMB	E028_Titan17-000708:00.00	000700:30.00	2006-250712:42.04	5000	9	SPASS Rider			
VIMS_028T1_SCAN001_LVIMS	2006-250720:29.04	GMB	E028_Titan17-000700:17.00	000700:23.00	2006-250720:52.04	2631.8	45	SPASS Rider			
VIMS_028T1_MAP002_CIRS	2006-250717:48.04	GMB	E028_Titan17-000702:24.00	000702:09.00	2006-250719:57.04	5168	40	SPASS Rider			
VIMS_028T1_STAR002_PRIME	2006-250719:57.04	GMB	E028_Titan17-000700:15.00	000700:07.00	2006-250720:04.00	19047.6	8	Prime	VIMS_IR to 101.287/-16.716	NEG_X to Sun	
VIMS_028T1_PHOTMAP001_ISS	2006-250720:52.04	GMB	E028_Titan17+000700:40.00	000709:20.00	2006-251106:12.04	4464.3	150	SPASS Rider			
VIMS_028T1_PHOTOMETR002_PRIME	2006-251106:12.04	GMB	E028_Titan17+000710:00.00	000703:38.00	2006-251109:50.04	6192.7	81	Prime	VIMS_IR to Titan	NEG_X to Sun	
Request	Start Time	Epoch	Relative Start Time	Duration	EndTime	Effective Rate (bps)	Data Volume (10 ⁶ bits)	SPASS Type	Primary Pointing	Secondary Pointing	Agreement
RADAR_0280T_WARMRAS001_RIDER	2006-250718:48.04	GMB	E028_Titan17-000701:24.00	000701:21.00	2006-250720:09.04	255.4	1.241	SPASS Rider			
RADAR_028T1_T1TRASAR001_INMIS	2006-250720:09.04	GMB	E028_Titan17-000700:03.00	000700:05.00	2006-250720:14.04	327590.4	99.277	SPASS Rider			
Request	Start Time	Epoch	Relative Start Time	Duration	EndTime	Effective Rate (bps)	Data Volume (10 ⁶ bits)	SPASS Type	Primary Pointing	Secondary Pointing	Agreement
ENGR_028C_ORSRCS250_PPS	2006-250717:27.04	GMB	E028_Titan17-000702:45.00	000700:20.49	2006-250717:47:53	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun	
ENGR_028C_RADCRS250_PPS	2006-250718:48.04	GMB	E028_Titan17-000701:24.00	000700:00.10	2006-250718:48.14	0	0	Non-SPASS			
ENGR_028C_DFPVBSA250_PPS	2006-250720:29.04	GMB	E028_Titan17+000700:17.00	000700:22.48	2006-250720:51:52	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun	
Request	Start Time	Epoch	Relative Start Time	Duration	EndTime	Effective Rate (bps)	Data Volume (10 ⁶ bits)	SPASS Type	Primary Pointing	Secondary Pointing	Agreement
SP_028NA_G7OBSNON251_NA	2006-249721:06.00			00113:30.00	2006-251110:36.00	0	0	Non-SPASS			
SP_028NA_T051SEG249_NA	2006-249721:06.00			002100:00.00	2006-251121:06.00	0	0	SPASS Note			
SP_028T1_WAYPTUR001_PRIME	2006-249721:06.00	GMB	E028_Titan17-000700:30.00	000700:00.00	2006-249721:06.00	0	0	New Waypoint	ISS_NAC to Titan	NEG_X to Sun	SP Turn to Waypoint
SP_028T1_DEADMET249_PRIME	2006-249721:06.00			000700:15.00	2006-249721:06.00	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun	
SP_028NA_BEGCUSTOM250_NA	2006-250719:27.04	GMB	E028_Titan17-000700:45.00	000700:01.00	2006-250719:28.04	0	0	SPASS Note			
SP_028NA_ENDCUSTOM250_NA	2006-250720:29.04	GMB	E028_Titan17+000700:17.00	000700:01.00	2006-250720:30.04	0	0	SPASS Note			
SP_028T1_DEADMET251_PRIME	2006-251109:51.00			000700:15.00	2006-251110:06.00	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun	
SP_028EA_CUTURN251_PRIME	2006-251103:12.04	GMB	E028_Titan17-000700:30.00	000700:00.00	2006-251110:36.00	0	0	Prime	NEG_X to Earth	NEG_X to NEP	SP Turn to Earth
SP_028EA_G7OMETNON251_PRIME	2006-251110:36.00			000710:30.00	2006-251121:06.00	0	0	Prime	XBAND to Earth	Rolling	
SP_028NA_G7OMETNON251_SP	2006-251110:36.00			000710:30.00	2006-251121:06.00	0	0	Non-SPASS			
Request	Start Time	Epoch	Relative Start Time	Duration	EndTime	Effective Rate (bps)	Data Volume (10 ⁶ bits)	SPASS Type	Primary Pointing	Secondary Pointing	Agreement
CAPS_028SA_SURVEY005_RIDER	2006-249721:06.00			000704:00.04	2006-250701:06.04	700	10.083	Non-SPASS			
CDA_028DR_1307DUSTB149_RIDER	2006-249721:06.00	GMB	E028_Titan17-000723:06.04	001123:59.59	2006-251121:05.59	134.7	23.27	Non-SPASS			
INMIS_0280T_MAGTAL002_CAPS	2006-249721:06.00			000708:14.00	2006-250708:20.00	100	2.964	Non-SPASS			
MAG_0280T_SURVEY001_PRIME	2006-249721:06.00	GMB	E028_Titan17-000700:30.00	000719:33.04	2006-250716:39.34	600	42.248	Non-SPASS			
RPVS_028SA_OUTSURVEY004_PRIME	2006-249721:06.00			000708:14.00	2006-250708:20.00	1310	38.829	Non-SPASS			
MMI_0280T_MAGTAL007_RIDER	2006-249721:06.51			000706:53.09	20						

T17 Attitude Strategy from CIMS

Request	Riders	Start(SCET)	Start(Epoch)	Duration	End(SCET)	Primary Pointing	Secondary Pointing	Comments
Sequence S023, length = 39 ...		2006-231T22:06:00		031T22:16:00	2006-263T20:22:00			
TOST rev 28 Segment		2006-249T21:06:00		002T00:00:00	2006-251T21:06:00			
SP_028TI_WAYPTTURN249_PRIME	M	2006-249T21:06:00		000T00:30:00	2006-249T21:36:00	ISS_NAC to Titan	NEG_X to Sun	SP Turn to Waypoint
NEW WAYPOINT		2006-249T21:36:00		001T23:30:00	2006-251T21:06:00	ISS_NAC to Titan	NEG_X to Sun	
SP_028TI_DEADTIME249_PRIME	M	2006-249T21:36:00		000T00:15:00	2006-249T21:51:00	ISS_NAC to Titan	NEG_X to Sun	
CIRS_028TI_MIDIRTMAP006_PRIME	C, M, V	2006-249T21:52:04	GMB_E028_Titan17-000T22:20:00	000T07:20:00	2006-250T05:12:04	CIRS_FP1 to Titan	NEG_X to Sun	
ISS_028TI_NIGHTNAC001_PRIME	C, V	2006-250T05:12:04	GMB_E028_Titan17-000T15:00:00	000T01:00:00	2006-250T06:12:04	ISS_NAC to Titan	NEG_X to Sun	
CIRS_028TI_FIRNADCMP003_PRIME	C, U, V	2006-250T06:12:04	GMB_E028_Titan17-000T14:00:00	000T06:00:00	2006-250T12:12:04	CIRS_FP1 to Titan	PIC	
ISS_028TI_PHOTOMWAC001_PRIME	C, V	2006-250T12:12:04	GMB_E028_Titan17-000T08:00:00	000T00:30:00	2006-250T12:42:04	ISS_NAC to Titan	NEG_X to Sun	
UVIS_028TI_EUVFUV001_PRIME	C, I, V	2006-250T12:42:04	GMB_E028_Titan17-000T07:30:00	000T04:45:00	2006-250T17:27:04	ISS_NAC to Titan	NEG_X to Sun	
ENGR_028SC_ORSRCS250_PPS		2006-250T17:27:04	GMB_E028_Titan17-000T02:45:00	000T00:20:49	2006-250T17:47:53	ISS_NAC to Titan	NEG_X to Sun	
CIRS_028TI_FIRLMBINT002_PRIME	C, M, U, V	2006-250T17:48:04	GMB_E028_Titan17-000T02:24:00	000T01:00:00	2006-250T18:48:04	CIRS_FP1 to Titan	PIC	
CIRS_028TI_FIRLMBBAER002_PRIME	C, M, R, U, V	2006-250T18:48:04	GMB_E028_Titan17-000T01:24:00	000T00:39:00	2006-250T19:27:04	CIRS_FP1 to Titan	PIC	
Begin Custom Period		2006-250T19:27:04	GMB_E028_Titan17-000T00:45:00	000T00:01:00	2006-250T19:28:04			
CIRS_028TI_FIRLMBT002_PRIME	C, M, R, V	2006-250T19:27:04	GMB_E028_Titan17-000T00:45:00	000T00:30:00	2006-250T19:57:04	CIRS_FP1 to Titan	PIC	End at VIMS_IR to 101.287/-16.716 and NEG_X to SC_RAM
VIMS_028TI_STAROCC001_PRIME	M, R	2006-250T19:57:04	GMB_E028_Titan17-000T00:15:00	000T00:07:00	2006-250T20:04:04	VIMS_IR to 101.287/-16.716	NEG_X to Sun	
INMS_028TI_T17RMPNT002_PRIME	M, R	2006-250T20:04:04	GMB_E028_Titan17-000T00:08:00	000T00:25:00	2006-250T20:29:04	NEG_X to SC_RAM	NEG_Y to Titan	Start VIMS 101.287/-16.716, -X RAM. To/From RADAR SAR. End ISS Titan, -X Sun.
End Custom Period		2006-250T20:29:04	GMB_E028_Titan17+000T00:17:00	000T00:01:00	2006-250T20:30:04			
ENGR_028SC_DFPWBIAS250_PPS	I, M	2006-250T20:29:04	GMB_E028_Titan17+000T00:17:00	000T00:22:48	2006-250T20:51:52	ISS_NAC to Titan	NEG_X to Sun	
ISS_028TI_HIGHRESNA001_PRIME	C, M, U, V	2006-250T20:52:04	GMB_E028_Titan17+000T00:40:00	000T01:20:00	2006-250T22:12:04	ISS_NAC to Titan	NEG_X to Sun	
ISS_028TI_REGMAPNA001_PRIME	C, U, V	2006-250T22:12:04	GMB_E028_Titan17+000T02:00:00	000T02:00:00	2006-251T00:12:04	ISS_NAC to Titan	NEG_X to Sun	
ISS_028TI_GLOBMAPNA001_PRIME	C, U, V	2006-251T00:12:04	GMB_E028_Titan17+000T04:00:00	000T03:00:00	2006-251T03:12:04	ISS_NAC to Titan	NEG_X to Sun	
ISS_028TI_MONITORNA001_PRIME	C, U, V	2006-251T03:12:04	GMB_E028_Titan17+000T07:00:00	000T03:00:00	2006-251T06:12:04	ISS_NAC to Titan	NEG_X to Sun	
VIMS_028TI_PHOTOMETR002_PRIME	C	2006-251T06:12:04	GMB_E028_Titan17+000T10:00:00	000T03:38:00	2006-251T09:50:04	VIMS_IR to Titan	NEG_X to Sun	
SP_028TI_DEADTIME251_PRIME		2006-251T09:51:00		000T00:15:00	2006-251T10:06:00	ISS_NAC to Titan	NEG_X to Sun	
SP_028EA_DLTURN251_PRIME		2006-251T10:06:00		000T00:30:00	2006-251T10:36:00	XBAND to Earth	NEG_X to NEP	SP Turn to Earth
SP_028EA_G70METNON251_PRIME	C	2006-251T10:36:00		000T10:30:00	2006-251T21:06:00	XBAND to Earth	Rolling	

T17 OpMode Strategy

Start Time	End Time	Request
2006-250T17:27:04	2006-250T17:47:53	ENGR_028SC_ORSRCS250_PPS
2006-250T18:48:04	2006-250T18:48:14	ENGR_028SC_RADRCS250_PPS
2006-250T20:29:04	2006-250T20:51:52	ENGR_028SC_DFPWBIAS250_PPS



Telemetry Modes

TELEMETRY MODE REPORT

SCET	TELEMETRY MODE	REQUEST
2006-249T21:06:00	S_N_ER_3	SP_028NA_G70OBSNON251_NA
2006-250T18:48:04	S_N_ER_5A	SP_028NA_G70OBSNON251_NA
2006-250T19:03:04	S_N_ER_2	SP_028NA_G70OBSNON251_NA
2006-250T20:09:04	S_N_ER_8	SP_028NA_G70OBSNON251_NA
2006-250T20:14:04	S_N_ER_2	SP_028NA_G70OBSNON251_NA
2006-250T20:29:04	S_N_ER_3	SP_028NA_G70OBSNON251_NA
2006-251T10:36:00	RTE_N_SPB_47400	SP_028EA_G70METNON251_PRIME
2006-251T11:21:00	RTE_N_SPB_82950	SP_028EA_G70METNON251_PRIME
2006-251T12:21:00	RTE_N_SPB_110600	SP_028EA_G70METNON251_PRIME
2006-251T13:21:00	RTE_N_SPB_124425	SP_028EA_G70METNON251_PRIME
2006-251T19:51:00	RTE_N_SPB_99540	SP_028EA_G70METNON251_PRIME



T17 SMT Results

DATA VOLUME SUMMARY

DOWNLINK PASS NAME	Start doy hh:mm	End doy hh:mm	OBSERVATION_PERIOD								DOWNLINK_PASS						
			START (Mb)	SCI (Mb)	HK+E (Mb)	TOTAL (Mb)	CPACTY (Mb)	MARGIN (%)	OPNAV (Mb)	SCI (Mb)	ENGR (Mb)	TOTAL (Mb)	CPACTY (Mb)	MARGIN (%)	CAROVR (Mb)		
SP_028EA_G70METNON251_PRIME	251 10:36	251 21:06	0	2947	126	3074	3569	495	14%	0	212	61	3347	3538	191	5%	0

DATA VOLUME REPORT

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	249 21:06	251 10:36	246.9	18.2	278.6	22.6	998.0	116.1	113.6	99.5	461.5	158.4	413.0	0.0	0.0	2926.4
OBSERVATION_SI	249 21:06	251 10:36	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_028EA_G70METNON251_PRIME	251 10:36	251 21:06	26.5	5.1	69.1	1.9	0.0	22.7	34.0	0.0	49.5	2.9	0.0	0.0	0.0	211.7

AVERAGE DATA RATE REPORT (calculated over observation periods and downlink passes)

Event	Start doy hh:mm	End doy hh:mm	CAPS (bps)	CDA (bps)	INMS (bps)	MAG (bps)	MIMI (bps)	RPWS (bps)	UVIS (bps)
SP_028NA_G70OBSNON251_NA	249 21:06	251 10:36	1828.8	134.7	167.2	859.9	841.3	3418.7	1173.7
SP_028EA_G70METNON251_PRIME	251 10:36	251 21:06	700.0	134.7	50.0	600.0	900.0	1310.0	76.0



T17 DSN Requests

CASSINI DSN COVERAGE SUMMARY for 028TI_T17_030401.apf generated on 2003-Apr-01 11:59:11
(+ = pass overlaps with previous pass; * = in conflict with DSN weekly maintenance)

C ANT	ID	BOT_TO_EOT	DUR	XMT_AT	2WAY_PERIOD	DUR	DL_PERIOD	DL_PERIOD	DUR	NOT CALS	RADIO_CONFIG	DATA_RATES
		ERT	hh:mm	ERT	ERT	hh:mm	ERT	SCET	hh:mm	min	UD D UD MAR	kbps
G 70MET 14		251T12:00-22:30	10:30		251T12:10	14:58-22:30	07:32		251T12:00-22:30	251T10:36-21:06	10:30	--- 15/15 XX - -- --0 47,82,110,124,99

028TI(T17) Comments & Open Issues/Liens

- **Pointing Issues**

- Waypoint is FR safe throughout segment and s/c can track Titan at c/a (as modeled in PDT on RWA)
- SP turns are FR safe and have enough time allocated to them.
- Timing of the transition from RWA to RCS at -0T02:45 may need to be revisited once the true cost of executing the CIRS FIRLMBINT & FIRLMBAER on RCS with 0.5 mrad deadband (in terms of hydrazine & thruster cycles) is known. No such estimates were possible at the time the segment was delivered
 - If the costs are prohibitive, the transition will be moved later (I.e., closer to c/a)
 - CIRS does not want the transition moved later, as it will interfere with far-IR coverage of the limb in the time range of -0T01:15 to -0T00:15 (M. Flasar)
- CIRS->VIMS->INMS handoffs inside custom period have been modeled and are OK (per C. Nixon & G. Fletcher)
 - VIMS STAROCC doesn't require an add'l pointing and may not even require a separate PDT design; CIRS will leave the s/c at the desired VIMS attitude; INMS will pick up from the desired VIMS attitude
 - INMS will also rotate -Z to Titan to accommodate the RADAR SAR rider

028TI(T17) Comments & Open Issues/Liens (cont.)

- **Data Volume Issues**
 - No issues. The DSN pass was lengthened to 10:30 in duration in order to increase the capability above 3500 Mb. Pass currently has 5% margin on the capability.
- **CIMS Issues**
 - None. All expected requests are delivered & approved. CIMS SPASS is up-to-date.
- **Power Issues**
 - None. All required OpMode transitions are in CIMS.
- **Flight Rule/Mission Planning Guidelines & Constraints**
 - T17 is 950 km flyby. Transition to RCS currently complete at -0T02:24 (alt = ~44772 km). Transition to RWA begins at +0T00:17 (alt = ~3678 km)
 - All prime requests inside moveable block are relative to GMB_028TI_T17 epoch
 - 15-minute “dead time” explicitly called out on both sides of moveable block