

TOST: Handoff 020TI (T10)

Segment Boundary 2006-014T13:38 – 2006-016T12:05

Titan C/A=2006-015T11:41:27, Altitude=2043 km

Epoch = GMB_E020_Titan10

August 9, 2005

Candy Hansen, Trina Ray, Amanda Hendrix, Doug Equils,
and Dave Mohr

ISS – will perform a distant mosaic (pixel scale > 1 km) of western Xanadu and the dark region to the west of Xanadu, including the Huygens landing site and a closer mosaic (pixel scales ~600-350 m) that includes the Huygens landing site and territory to the north of it. The latter is also designed to match frames in a similar T37 mosaic (lat -40 to 40, long 150-210) in case some stereo is possible and will provide an opportunity to look for surface changes.

CIRS –will be observing the northern limb at +55 latitude, both on the inbound (distant, mid-IR) and the outbound (close-in, far-IR). This is expected to be on or near the transition to a possible winter polar vortex region over the north pole, where strong zonal winds in the stratosphere inhibit mixing of air with lower latitudes. CIRS will also perform hemispheric temperature mapping in the stratosphere, increasing temporal coverage, and also adding to the spatial coverage of our far-infrared composition mapping.

UVIS – EUVFUV to image Titan in the EUV and FUV channels - one of several to collect a global spectral map at a variety of phase angles to study aerosol scattering and hydrocarbon absorption and distribution. This will also be UVIS' first solar occultation. With the solar occultation UVIS can observe the EUV spectrum below 110 nm and can sample opacity from nitrogen and methane and possibly some other hydrocarbons. Earlier stellar occultations (at longer wavelengths in the FUV) were insensitive to nitrogen.

VIMS – T10 will allow us to get new high resolution images that will help us to understand Titan's geology and the fate of CH₄.

Start Time	End Time	Prime Activity	Obs Detail	Op Mode	TLM Mode	Comments
014T13:38:00	014T14:08:00	SP turn to WP		DFPW_N	SN_ER_3	Nac Titan, Neg_X Sun
014T14:08:00	014T14:23:00	Dead Time		DFPW_N	SN_ER_3	
-21:18	-12:00	CIRS Mid-IR Nadir Temp Map		DFPW_N	SN_ER_3	
-12:00	-10:00	CIRS Far-IT Nadir comp		DFPW_N	SN_ER_3	
-10:00	-09:00	ISS MONITOR_NA		DFPW_N	SN_ER_3	
-09:00	-05:00	CIRS Mid-IR Limb Temp Map		DFPW_N	SN_ER_3	
-05:00	-02:00	ISS Glob Map		DFPW_N	SN_ER_3	
-02:00	-00:40	VIMS		DFPW_N	SN_ER_3	
-00:40	-00:30	Turn UVIS Solar port to Titan		DFPW_N	SN_ER_3	
-00:30	+01:00	UVIS Solar Occultation		DFPW_N	SN_ER_3	
+01:00	+02:00	CIRS Far-IR Limb		DFPW_N	SN_ER_3	
+02:00	+03:00	VIMS Aurora		DFPW_N	SN_ER_3	
+03:00	+08:00	UVIS EUV-FUV		DFPW_N	SN_ER_3	
+08:00	+14:43	ISS NIGHT_NA		DFPW_N	SN_ER_3	
016T02:24	016T02:35	Dead Time		DFPW_N	SN_ER_3	
016T02:35	016T03:05	SP turn to D/L		DFPW_N	SN_ER_3	
016T03:05	016T12:05	D/L to G70		DFPW_N		



T10 TOL

020TI (T10)

Request	Start Time	Epoch	Duration	End Time	Rate	Mb	SPASS Type	Primary Pointing	Secondary Pointing
CAPS_020SA_SURVEY002_RIDER	2006-014T13:38:00		000T20:23:27	2006-015T10:01:27	1000	73.8	Non-SPASS		
CAPS_020SA_SURVEY005_RIDER	2006-015T13:21:27	GMB_E020_Titan10+000T01:40:00	003T22:42:14	2006-019T12:03:41	1000	340.9	Non-SPASS		
CAPS_020TI_T10CLOSE001_RIDER	2006-015T10:41:27	GMB_E020_Titan10-000T01:00:00	000T02:00:00	2006-015T12:41:27	16000	115.2	SPASS Rider		
CAPS_020TI_T10INBND001_RIDER	2006-015T10:01:27	GMB_E020_Titan10-000T01:40:00	000T00:40:00	2006-015T10:41:27	4000	9.6	SPASS Rider		
CAPS_020TI_T10OUTBND001_RIDER	2006-015T12:41:27	GMB_E020_Titan10+000T01:00:00	000T00:35:19	2006-015T13:16:46	4000	7.0	SPASS Rider		
CDA_020DR_1100DUST130_RIDER	2006-016T10:48:30		000T03:43:19	2006-016T14:31:49	524	7.0	Non-SPASS		
CDA_020DR_1300DUST129_RIDER	2006-016T05:31:00		000T03:15:29	2006-016T08:46:29	524	6.1	Non-SPASS		
CDA_020DR_1500DUST128_RIDER	2006-016T00:01:13		000T03:27:45	2006-016T03:28:58	524	6.5	Non-SPASS		
CDA_020DR_1700DUST111_RIDER	2006-014T22:01:00		000T23:58:13	2006-015T21:59:13	149.9	12.9	Non-SPASS		
CDA_020DR_2500DUST110_RIDER	2006-005T14:40:27		009T05:18:32	2006-014T19:58:59	100.1	79.7	Non-SPASS		
CDA_020HY_2400HYORX016_RIDER	2006-014T20:00:00		000T01:59:59	2006-014T21:59:59	524	3.8	Non-SPASS		
CDA_020RI_1200RINGM017_RIDER	2006-016T08:47:30		000T01:59:59	2006-016T10:47:29	524	3.8	Non-SPASS		
CDA_020RI_1400RINGM017_RIDER	2006-016T03:30:00		000T01:59:59	2006-016T05:29:59	524	3.8	Non-SPASS		
CDA_020RI_1600RINGM019_RIDER	2006-015T22:00:14		000T01:59:59	2006-016T00:00:13	524	3.8	Non-SPASS		
CIRS_020IC_DSCAL1303_RIDER	2006-016T03:50:00		000T06:00:00	2006-016T09:50:00	4000	86.4	SPASS Rider		
CIRS_020TI_FIRLMBINT003_PRIME	2006-015T12:41:27	GMB_E020_Titan10+000T01:00:00	000T01:00:00	2006-015T13:41:27	4000	14.4	Prime	CIRS_FP1 to Titan	PIC
CIRS_020TI_FIRLMBINT003_SI	2006-015T12:41:27	GMB_E020_Titan10+000T01:00:00	000T01:00:00	2006-015T13:41:27	0	4.0	SPASS Rider		
CIRS_020TI_FIRNADCMP001_ISS	2006-015T06:41:27	GMB_E020_Titan10-000T05:00:00	000T04:20:00	2006-015T11:01:27	2000	31.2	SPASS Rider		
CIRS_020TI_FIRNADCMP002_PRIME	2006-014T23:41:27	GMB_E020_Titan10-000T12:00:00	000T02:00:00	2006-015T01:41:27	4000	28.8	Prime	CIRS_FP1 to Titan	PIC
CIRS_020TI_FIRNADCMP002_SI	2006-014T23:41:27	GMB_E020_Titan10-000T12:00:00	000T02:00:00	2006-015T01:41:27	0	4.0	SPASS Rider		
CIRS_020TI_FIRNADCMP003_ISS	2006-015T01:41:27	GMB_E020_Titan10-000T10:00:00	000T01:00:00	2006-015T02:41:27	4000	14.4	SPASS Rider		
CIRS_020TI_FIRNADCMP004_UVIS	2006-015T14:41:27	GMB_E020_Titan10+000T03:00:00	000T05:00:00	2006-015T19:41:27	2000	36.0	SPASS Rider		
CIRS_020TI_FIRNADCMP005_ISS	2006-015T19:41:27	GMB_E020_Titan10+000T08:00:00	000T06:20:00	2006-016T02:01:27	3640	83.0	SPASS Rider		
CIRS_020TI_FIRNADCMP008_VIMS	2006-015T13:41:27	GMB_E020_Titan10+000T02:00:00	000T01:00:00	2006-015T14:41:27	4000	14.4	SPASS Rider		
CIRS_020TI_MIDIRTMAP010_PRIME	2006-014T14:23:27	GMB_E020_Titan10-000T21:18:00	000T09:18:00	2006-014T23:41:27	2000	67.0	Prime	CIRS_FPB to Titan	POS_X to North_Pole_Dir
CIRS_020TI_MIDIRTMAP010_SI	2006-014T14:23:27	GMB_E020_Titan10-000T21:18:00	000T09:18:00	2006-014T23:41:27	0	4.0	SPASS Rider		
CIRS_020TI_MIRLMBINT002_PRIME	2006-015T02:41:27	GMB_E020_Titan10-000T09:00:00	000T04:00:00	2006-015T06:41:27	4000	57.6	Prime	CIRS_FPB to Titan	PIC
CIRS_020TI_MIRLMBINT002_SI	2006-015T02:41:27	GMB_E020_Titan10-000T09:00:00	000T04:00:00	2006-015T06:41:27	0	4.0	SPASS Rider		
ENGR_020SC_ROUTEREU001_CDS	2006-015T10:11:27	GMB_E020_Titan10-000T01:30:00	000T03:00:00	2006-015T13:11:27	0	0.0	Non-SPASS		
INMS_020SA_SURVEY002_RIDER	2006-014T13:38:00		000T10:37:36	2006-015T00:15:36	50	1.9	Non-SPASS		
INMS_020SA_SURVEY003_RIDER	2006-015T23:41:27	GMB_E020_Titan10+000T12:00:00	000T11:49:24	2006-016T11:30:51	50	2.1	Non-SPASS		
INMS_020SA_SURVEY004_RIDER	2006-016T11:30:51		000T01:36:19	2006-016T13:07:10	50	0.3	Non-SPASS		
INMS_020TI_T10CLOSE001_UVIS	2006-015T10:41:27	GMB_E020_Titan10-000T01:00:00	000T02:00:00	2006-015T12:41:27	1498	10.8	Non-SPASS		
INMS_020TI_T10INBND001_ISS	2006-015T00:15:36		000T10:25:51	2006-015T10:41:27	100	3.8	Non-SPASS		
INMS_020TI_T10OUTBND001_CIRS	2006-015T12:41:27	GMB_E020_Titan10+000T01:00:00	000T11:00:00	2006-015T23:41:27	100	4.0	Non-SPASS		
ISS_020TI_AURORAE001_VIMS	2006-015T13:41:27	GMB_E020_Titan10+000T02:00:00	000T01:00:00	2006-015T14:41:27	0	20.0	SPASS Rider		
ISS_020TI_EUVFUV001_UVIS	2006-015T14:41:27	GMB_E020_Titan10+000T03:00:00	000T05:00:00	2006-015T19:41:27	0	28.0	SPASS Rider		
ISS_020TI_FIRLMBINT003_CIRS	2006-015T12:41:27	GMB_E020_Titan10+000T01:00:00	000T01:00:00	2006-015T13:41:27	0	20.0	SPASS Rider		
ISS_020TI_FIRNADCMP002_CIRS	2006-014T23:41:27	GMB_E020_Titan10-000T12:00:00	000T02:00:00	2006-015T01:41:27	0	20.0	SPASS Rider		
ISS_020TI_GLBMAPNLP001_PRIME	2006-015T06:41:27	GMB_E020_Titan10-000T05:00:00	000T03:00:00	2006-015T09:41:27	0	385.0	Prime	ISS_NAC to Titan	NEG_X to Sun
ISS_020TI_HIGHRESNA001_VIMS	2006-015T09:41:27	GMB_E020_Titan10-000T02:00:00	000T01:20:00	2006-015T11:01:27	0	256.0	SPASS Rider		
ISS_020TI_MIDIRTMAP010_CIRS	2006-014T14:28:27	GMB_E020_Titan10-000T21:13:00	000T09:13:00	2006-014T23:41:27	0	20.0	SPASS Rider		
ISS_020TI_MIRLMBINT002_CIRS	2006-015T02:41:27	GMB_E020_Titan10-000T09:00:00	000T04:00:00	2006-015T06:41:27	0	20.0	SPASS Rider		
ISS_020TI_MONITORNA001_PRIME	2006-015T01:41:27	GMB_E020_Titan10-000T10:00:00	000T01:00:00	2006-015T02:41:27	0	250.0	Prime	ISS_NAC to Titan	NEG_X to Sun
ISS_020TI_NIGHTNAC002_PRIME	2006-015T19:41:27	GMB_E020_Titan10+000T08:00:00	000T06:43:00	2006-016T02:24:27	0	20.0	Prime	ISS_NAC to Titan	NEG_X to Sun

MAG_0200T_SURVEY003_RIDER	2006-014T13:38:00		000T18:22:27	2006-015T08:00:27	600	39.9	Non-SPASS		
MAG_0200T_SURVEY014_RIDER	2006-015T15:22:27	GMB_E020_Titan10+000T03:41:00	000T20:42:33	2006-016T12:05:00	600	44.7	Non-SPASS		
MAG_020TI_MAGTITAN001_PRIME	2006-015T08:00:27	GMB_E020_Titan10-000T03:41:00	000T07:22:00	2006-015T15:22:27	1976	52.4	Non-SPASS		
MIMI_020CO_SURVEY002_RIDER	2006-014T13:38:00		000T20:03:27	2006-015T09:41:27	900	64.7	Non-SPASS		
MIMI_020CO_SURVEY003_RIDER	2006-015T13:41:27	GMB_E020_Titan10+000T02:00:00	000T22:28:14	2006-016T12:09:41	900	72.8	Non-SPASS		
MIMI_020TI_T10CLOSE001_UVIS	2006-015T10:41:27	GMB_E020_Titan10-000T01:00:00	000T02:00:00	2006-015T12:41:27	1800	13.0	SPASS Rider		
MIMI_020TI_T10INBND001_ISS	2006-015T09:41:27	GMB_E020_Titan10-000T02:00:00	000T01:00:00	2006-015T10:41:27	1800	6.5	SPASS Rider		
MIMI_020TI_T10OUTBND001_CIRS	2006-015T12:41:27	GMB_E020_Titan10+000T01:00:00	000T01:00:00	2006-015T13:41:27	1800	6.5	SPASS Rider		
MP_019NA_SEQUENCED17_NA	2005-351T14:21:00	E019_SEQUENCE_017+000T00	040T13:42:00	2006-027T04:03:00	0	0.0	SPASS Note		
MP_020EA_OCCTITAN020_NA	2006-015T11:49:04		000T00:14:30	2006-015T12:03:34	0	0.0	Non-SPASS		
MP_020SA_REV020_NA	2006-005T14:08:00		031T06:50:00	2006-036T20:58:00	0	0.0	Non-SPASS		
MP_020SU_OCCTITAN020_NA	2006-015T11:49:58		000T00:13:15	2006-015T12:03:13	0	0.0	Non-SPASS		
MP_020TI_FLYBYT010_NA	2006-015T11:41:27		000T00:00:01	2006-015T11:41:28	0	0.0	Non-SPASS		
RPWS_020SA_INSURVEY002_PRIME	2006-016T03:10:00		000T08:55:00	2006-016T12:05:00	1310	42.1	Non-SPASS		
RPWS_020SA_OUTSURVEY004_PRIME	2006-015T13:41:27	GMB_E020_Titan10+000T02:00:00	000T13:33:14	2006-016T03:14:41	1310	63.9	Non-SPASS		
RPWS_020SA_OUTSURVEY013_PRIME	2006-014T13:38:00		000T20:03:27	2006-015T09:41:27	1310	95.1	Non-SPASS		
RPWS_020TI_T10INTRMED001_PRIME	2006-015T09:41:27	GMB_E020_Titan10-000T02:00:00	000T04:00:00	2006-015T13:41:27	12000.1	172.8	Non-SPASS		
SP_020EA_DLTRN016_PRIME	2006-016T02:35:00		000T00:30:00	2006-016T03:05:00	0	0.0	Prime	XBAND to Earth	POS_X to NEP
SP_020EA_G70METNON016_PRIME	2006-016T03:05:00		000T09:00:00	2006-016T12:05:00	0	0.0	Prime	XBAND to Earth	POS_X to NEP
SP_020NA_DEADTIME014_PRIME	2006-014T14:08:00		000T00:15:00	2006-014T14:23:00	0	0.0	Prime		
SP_020NA_DEADTIME016_PRIME	2006-016T02:24:27	GMB_E020_Titan10+000T14:43:00	000T00:10:33	2006-016T02:35:00	0	0.0	Prime		
SP_020NA_G70METNON016_SP	2006-016T03:05:00		000T09:00:00	2006-016T12:05:00	0	0.0	Non-SPASS		
SP_020NA_G70OBSNON016_NA	2006-014T13:38:00		001T13:27:00	2006-016T03:05:00	0	0.0	Non-SPASS		
SP_020NA_TOSTSEG014_NA	2006-014T13:38:00		001T22:27:00	2006-016T12:05:00	0	0.0	SPASS Note		
SP_020TI_WAYPTTURN014_PRIME	2006-014T13:38:00		000T00:30:00	2006-014T14:08:00	0	0.0	New Waypoint	ISS_NAC to Titan	NEG_X to Sun
UVIS_020SU_USUNOCC001_PRIME	2006-015T11:01:27	GMB_E020_Titan10-000T00:40:00	000T01:40:00	2006-015T12:41:27	12677.9	76.1	Prime	ISS_NAC to Sun (-20.0,0.0,0.0 deg. offset)	POS_X to Titan
UVIS_020SW_IPHSURVEY028_RIDER	2006-016T03:05:00		000T09:00:00	2006-016T12:05:00	76	2.5	Non-SPASS		
UVIS_020TI_EUVFUV001_PRIME	2006-015T14:41:27	GMB_E020_Titan10+000T03:00:00	000T05:00:00	2006-015T19:41:27	5032	90.6	Prime	ISS_NAC to Titan	NEG_X to Sun
UVIS_020TI_FIRNADCMP002_CIRS	2006-014T23:41:27	GMB_E020_Titan10-000T12:00:00	000T02:00:00	2006-015T01:41:27	1006.4	7.2	SPASS Rider		
UVIS_020TI_MIDIRTMAP010_CIRS	2006-014T14:28:27	GMB_E020_Titan10-000T21:13:00	000T09:13:00	2006-014T23:41:27	820.2	27.2	SPASS Rider		
UVIS_020TI_MIRLMBINT002_CIRS	2006-015T02:41:27	GMB_E020_Titan10-000T09:00:00	000T04:00:00	2006-015T06:41:27	1006.4	14.5	SPASS Rider		
UVIS_020TI_MONITORAD001_ISS	2006-015T06:41:27	GMB_E020_Titan10-000T05:00:00	000T04:20:00	2006-015T11:01:27	1006.4	15.7	SPASS Rider		
UVIS_020TI_NIGHTNAC001_ISS	2006-015T19:41:27	GMB_E020_Titan10+000T08:00:00	000T06:20:00	2006-016T02:01:27	1006.4	22.9	SPASS Rider		
VIMS_020TI_AURORAE001_PRIME	2006-015T13:41:27	GMB_E020_Titan10+000T02:00:00	000T01:00:00	2006-015T14:41:27	14722.2	53.0	Prime		
VIMS_020TI_EUV001_UVIS	2006-015T14:41:27	GMB_E020_Titan10+000T03:00:00	000T00:05:00	2006-015T14:46:27	333333.3	100.0	SPASS Rider		
VIMS_020TI_NADIRTEMP001_CIRS	2006-014T14:28:27	GMB_E020_Titan10-000T21:13:00	000T20:33:00	2006-015T11:01:27	6109.8	452.0	SPASS Rider		
VIMS_020TI_SOLAROCC002_UVIS	2006-015T11:11:27	GMB_E020_Titan10-000T00:30:00	000T02:30:00	2006-015T13:41:27	22222.2	200.0	SPASS Rider		
VIMS_020TI_HIGHRESNA001 (TBD)		GMB_E020_Titan10-000T02:00:00	000T01:20:00						

T10 SPASS

Request	Riders	Start (SCET)	Start (Epoch)	Duration	End (SCET)	Primary	Secondary	Comments
Sequence S017, length = 42 ...		2006-351T14:21:00	E019_SEQUENCE_017+000T	040T13:42:00	2006-027T04:03:00			
TOST rev 20 Segment		2006-014T13:38:00		001T22:27:00	2006-016T12:05:00			
SP_020TI_WAYPTTURN014_PRIME		2006-014T13:38:00		000T00:30:00	2006-014T14:08:00	ISS_NAC to Titan	NEG_X to Sun	
NEW WAYPOINT		2006-014T14:08:00		001T21:57:00	2006-016T12:05:00	ISS_NAC to Titan	NEG_X to Sun	
SP_020NA_DEADTIME014_PRIME		2006-014T14:08:00		000T00:15:00	2006-014T14:23:00			
CIRS_020TI_MIDIRTMAP010_PRIME	C,I,U,V	2006-014T14:23:27	GMB_E020_Titan10-000T21:18:00	000T09:18:00	2006-014T23:41:27	CIRS_FP1 to Titan	POS_X to North_Pole_Dir	
CIRS_020TI_FIRNADCMP002_PRIME	C,I,U,V	2006-014T23:41:27	GMB_E020_Titan10-000T12:00:00	000T02:00:00	2006-015T01:41:27	CIRS_FP1 to Titan	PIC	
ISS_020TI_MONITORNAD01_PRIME	C,V	2006-015T01:41:27	GMB_E020_Titan10-000T10:00:00	000T01:00:00	2006-015T02:41:27	ISS_NAC to Titan	NEG_X to Sun	
CIRS_020TI_MIRLMBINT002_PRIME	C,I,U,V	2006-015T02:41:27	GMB_E020_Titan10-000T09:00:00	000T04:00:00	2006-015T06:41:27	CIRS_FP1 to Titan	PIC	
ISS_020TI_GLBMAPNLP001_PRIME	C,U,V	2006-015T06:41:27	GMB_E020_Titan10-000T05:00:00	000T03:00:00	2006-015T09:41:27	ISS_NAC to Titan	NEG_X to Sun	
UVIS_020SU_USUNOCC001_PRIME	M,V	2006-015T11:01:27	GMB_E020_Titan10-000T00:40:00	000T01:40:00	2006-015T12:41:27	ISS_NAC to Sun (-20.0,0.0,0.0 deg_offset)	POS_X to Titan	
CIRS_020TI_FIRLMBINT003_PRIME	C,I,M,V	2006-015T12:41:27	GMB_E020_Titan10+000T01:00:00	000T01:00:00	2006-015T13:41:27	CIRS_FP1 to Titan	PIC	
VIMS_020TI_AURORAE001_PRIME	C,I	2006-015T13:41:27	GMB_E020_Titan10+000T02:00:00	000T01:00:00	2006-015T14:41:27			
UVIS_020TI_EUVFUV001_PRIME	C,I,V	2006-015T14:41:27	GMB_E020_Titan10+000T03:00:00	000T05:00:00	2006-015T19:41:27	ISS_NAC to Titan	NEG_X to Sun	
ISS_020TI_NIGHTNAC002_PRIME	C,U	2006-015T19:41:27	GMB_E020_Titan10+000T08:00:00	000T06:43:00	2006-016T02:24:27	ISS_NAC to Titan	NEG_X to Sun	
SP_020NA_DEADTIME016_PRIME		2006-016T02:24:27	GMB_E020_Titan10+000T14:43:00	000T00:10:33	2006-016T02:35:00			
SP_020EA_DLTURND16_PRIME		2006-016T02:35:00		000T00:30:00	2006-016T03:05:00	XBAND to Earth	POS_X to NEP	
SP_020EA_G70METNOND16_PRIME	C	2006-016T03:05:00		000T09:00:00	2006-016T12:05:00	XBAND to Earth	POS_X to NEP	

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)	MARGN (Mb)	OPNAV (Mb)	SCI (Mb)	ENGR (Mb)	TOTAL (Mb)	CPACTY (Mb)	MARGN (Mb)	NET_MARGN (Mb)	NET_MARGN (%)	CAROVR (Mb)
SP_020EA_G70METNON016_PRIME	016 03:05	016 12:05	0	3380	128	3507	3523	15	0	233	53	3794	4472	679	679	15%	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	014 13:38	016 03:05	256.1	28.5	346.8	21.0	1039.0	117.4	134.3	0.0	330.6	254.2	805.0	0.0	0.0	3332.9
OBSERVATION_SI	014 13:38	016 03:05	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0
SP_020EA_G70METNON016_PRIME	016 03:05	016 12:05	32.4	16.8	86.4	1.6	0.0	19.4	29.2	0.0	42.8	2.5	0.0	0.0	0.0	231.1
DAILY TOTAL SCIENCE	014 13:38	016 12:05	288.5	45.4	449.2	22.6	1039.0	136.8	163.5	0.0	373.4	256.7	805.0	0.0		

Telemetry Rates

TELEMETRY MODE REPORT

EPOCH RELATIVE	UTC	DURATION	TELEMETRY MODE	REQUEST
2006-014T13:38:00.000		001T13:27:00	S_N_ER_3	SP_020NA_G70OBSNON016_NA
2006-016T03:05:00.000		00:32:00	RTE_N_SPB_142200	SP_020EA_G70METNON016_PRIME
2006-016T03:37:00.000		07:45:00	RTE_N_SPB_165900	SP_020EA_G70METNON016_PRIME
2006-016T11:22:00.000		00:43:00	RTE_N_SPB_142200	SP_020EA_G70METNON016_PRIME

DSN Report

CASSINI DOWNLINK/DSN COVERAGE SUMMARY for S10.apf generated on 2005-Aug-09 11:43:01

(+ = 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
G70METNON016	016T03:05-12:05	016T04:13-13:13	09:00	142,165,142	14	016T03:05-12:05	016T04:10-13:15	09:05	60/15	Ranging_	X_up_on

NAV Report

CASSINI NAVIGATION SUMMARY for S10.apf generated on 2005-Aug-09 11:43:35

(+ = 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	DOP	RNG		
-(missing)--				gap in doppler data of 41 hours							NO	NO
G70METNON016	016T03:05-12:05	09:00	14	016T04:10-13:15	04:20-13:10	05:28-12:05	06:36-13:13	06:37	Y?	Y?		

T10 Open Issues

- SSID needed for the waypoint for 6 min near C/A.
- VIMS needs to add their new Prime request in CIMS (from C/A-2:00:00 to C/A-00:40:00).
 - The VIMS total data volume should not change.

TWT/OST Integration Constraint and Guideline Checklist

Below are Target Working Team (TWT) and Orbiter Science Team (OST) constraints that must be followed during segment implementation. Any exceptions to constraint numbers 3, 4, 6, or 7 must be approved by the Science Planning Manager.

C=Comply

V=Violate

N/A=Not Applicable

Constraint		Comments	Disposition
1. A. SP has checked all waypoints turns to and from waypoints. B. All initial downlink attitudes have been checked as waypoints.	C		
	C		
2. All turns to and from waypoints checked for violations and margins. <input checked="" type="checkbox"/> CAPS <input checked="" type="checkbox"/> CDA <input checked="" type="checkbox"/> CIRS <input checked="" type="checkbox"/> INMS <input checked="" type="checkbox"/> ISS <input checked="" type="checkbox"/> MIMI <input checked="" type="checkbox"/> MAG <input checked="" type="checkbox"/> NAV <input type="checkbox"/> RADAR <input checked="" type="checkbox"/> RPWS <input checked="" type="checkbox"/> RSS <input checked="" type="checkbox"/> UVIS <input checked="" type="checkbox"/> VIMS Each Prime Instrument agrees to accept a reduction in observation time during implementation if problems arise.	C		
3. Custom handoffs limited to: A. ±3 hours from targeted Icy Satellite flyby B. ±3 hours from targeted Titan Flyby C. OpNavs preceding/following a downlink			
	N/A		
	N/A		
4. Minimum 30 min SPASS Prime request duration outside ±5 hours from targeted satellite flyby (5 min. integer duration if >30 min.)	C		
5. Live and Ground Movable Blocks include appropriate time margins.	V	K. Klaasen's margin for flyby T40 is 15 min. according to memo dated .	The outbound deadtime is 10min.
6. Waypoints changes are ≤3 per day A. All turns that accomplish the waypoint strategy are requested by SP or OpNav.	C		
	C		
7. Live Movable Blocks limited to the following orbits: 7, 8, 9, 10, 12, 28, 51, 56, 57, 60, 63, 64	C		

Guideline	Yes / No	Comments
1. Were repeatable/reusable templates used where possible?	No	
2. During Pre-Integration: Was 30 min. used for 90° RWA turns and/or 10 min. for RCS turns?	Yes	

(DOUBLE-CLICK TO MAKE CHANGES)