

TOST Review 019TI (T09)

Titan C/A= 2005-360T18:59:30 @ 10,409

Epoch = GMB_E019_Titan09

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**CIRS - Obtain information on trace constituents in Titan's stratosphere. Integrate on limb at two positions
POINTING: Obtain information on CO, HCN, CH₄. Integrate on disk at airmass 1.5-2.0. POINTING: -y to Titan, x away from sun.**

ISS - Low-phase global map, and an examination of wind/cloud motions

VIMS - VIMS medium resolution regional map. Use same observing strategy as T8 and other similar flybys.

UVIS - Stare at Titan's specular point. To achieve MAPS measurements +X to NSP with a -19 degree offset will keep the radiators safe, keep co-rotation well within the CAPS FOV, keep full pitch angle coverage for MIMI, and keep the -X-to-ram angle at about 70 degrees (probably 71 degrees...).
Several slow wcans across Titan's visible hemisphere to form spectral images

MAPS - Observations of Titan's interaction with Saturn's magnetosphere. Investigate large-scale and distant aspects of the Titan interaction by observing during entire period around an encounter from 10 to 25 RS

MIMI - Part of 019TI(T9) MAPS Campaign. Investigate micro-scale and near aspects of the Titan interaction by observing during about one hour period around an encounter. With -Y pointed toward Titan, when within 30 minutes of the targeted flyby, optimize secondary axis for corotation flow as close to the S/C -X, +/- Z plane as works with the other constraints on pointing. Also, measure Titan exosphere/magnetosphere interaction by imaging in ENA with INCA (when sun is not in INCA FOV).

019TI(T9) Timeline C/A= 2005-360T18:59:30 @ 10,409 km

Start (SCET)	End (SCET)	Prime Activity	Obs Detail	OpMode	Telem Mode	Comments
2005-360T06:59:00	2005-360T07:27:00	SP Waypoint Turn		DFPW Norm	S_N_ER_3	SP Turn to Waypoint
2005-360T07:27:00	2005-360T07:49:30	Deadtime		DFPW Norm		
- 11:10:00	- 09:00:00	CIRS		DFPW Norm	S_N_ER_3	
- 09:00:00	- 06:00:00	VIMS	Med Res Regional Map	DFPW Norm	S_N_ER_3	
- 06:00:00	- 04:00:00	ISS	High Res NAC	DFPW Norm	S_N_ER_3	
- 04:00:00	- 01:00:00	UVIS		DFPW Norm	S_N_ER_3	
- 01:00:00	+ 02:30:00	MAPS	UVIS Controls Pointing	DFPW Norm	S_N_ER_2	NAC to specular point on Titan, +X to NSP with a -19 degree offset about Y.
+ 02:30:00	+08:54:00	UVIS		DFPW Norm	S_N_ER_3	
2005-361T03:53:30	2005-361T04:04:00	Deadtime		DFPW Norm		
2005-361T04:04:00	2005-361T04:34:00	SP Turn to Downlink Attitude		DFPW Norm	S_N_ER_3	SP Turn to Earth; Pos X to NEP
2005-361T04:34:00	2005-251T13:34:00	Downlink to Madrid 70M		DFPW Norm	RTE_N_SPB	Rolling



T9 TOL

S17 (T09)

Request	Start Time	Epoch	Duration	End Time	Rate	Data Volume	SPASS Type	Primary Pointing	Secondary Pointing
CAPS_019SA_SURVEY008_RIDER	2005-360T06:00:00		000T04:00:00	2005-360T10:00:00	1000	14.4	Non-SPASS		
CAPS_019TI_T9EXTINB002_CIRS	2005-360T10:00:00		000T07:59:30	2005-360T17:59:30	4000	113.348	SPASS Rider		
CAPS_019TI_T9CLOSE001_UVIS	2005-360T17:59:30	GMB_E019_Titan9-000T01:00:00	000T02:00:00	2005-360T19:59:30	16000	115.2	SPASS Rider		
CAPS_019TI_T9EXTOUT001_UVIS	2005-360T19:59:30	GMB_E019_Titan9+000T01:00:00	000T13:40:06	2005-361T09:39:36	4000	196.824	SPASS Rider		
CAPS_019SA_SURVEY006_RIDER	2005-361T09:39:36	GMB_E019_Titan9+000T14:04:06	000T03:58:04	2005-361T13:37:40	1000	14.284	Non-SPASS		
CAPS_019SA_SURVEY003_RIDER	2005-361T13:33:00		002T16:19:00	2005-364T05:52:00	2000	463.08	Non-SPASS		
CDA_019DR_1700DUST127_RIDER	2005-360T06:41:34		000T03:50:02	2005-360T10:31:36	524	7.232	Non-SPASS		
CDA_019RI_1800RINGM016_RIDER	2005-360T10:32:37		000T01:59:59	2005-360T12:32:36	524	3.772	Non-SPASS		
CDA_019DR_1900DUST108_RIDER	2005-360T12:33:36		000T18:18:24	2005-361T06:52:00	149.9	9.877	Non-SPASS		
CDA_019HY_2400HYORX015_RIDER	2005-361T06:53:02		000T01:59:59	2005-361T08:53:01	524	3.772	Non-SPASS		
CDA_019DR_2500DUST109_RIDER	2005-361T08:54:01		009T05:16:25	2006-005T14:10:26	149.9	119.379	Non-SPASS		
CIRS_019TI_FIRNADCMP002_PRIME	2005-360T07:49:30	GMB_E019_Titan9-000T11:10:00	000T02:10:00	2005-360T09:59:30	4000	31.2	Prime	CIRS_FP1 to Titan	PIC
CIRS_019TI_FIRNADCMP002_SI	2005-360T07:49:30	GMB_E019_Titan9-000T11:10:00	000T02:10:00	2005-360T09:59:30	0	4	SPASS Rider		
CIRS_019TI_FIRNADMAP006_VIMS	2005-360T09:59:30	GMB_E019_Titan9-000T09:00:00	000T04:00:00	2005-360T13:59:30	4000	57.6	SPASS Rider		
CIRS_019TI_FIRNADMAP007_ISS	2005-360T13:59:30	GMB_E019_Titan9-000T05:00:00	000T01:00:00	2005-360T14:59:30	4000	14.4	SPASS Rider		
CIRS_019TI_FIRNADCMP003_UVIS	2005-360T14:59:30	GMB_E019_Titan9-000T04:00:00	000T06:30:00	2005-360T21:29:30	4000	93.6	SPASS Rider		
CIRS_019TI_FIRNADMAP005_UVIS	2005-360T21:29:30	GMB_E019_Titan9+000T02:30:00	000T06:24:00	2005-361T03:53:30	2000	46.08	SPASS Rider		
CIRS_019IC_DSCAL1293_RIDER	2005-361T04:34:45		000T06:00:00	2005-361T10:34:45	4000	86.4	SPASS Rider		
ENGR_019SC_ROUTEREU002_CDS	2005-360T17:29:30	GMB_E019_Titan9-000T01:30:00	000T03:00:00	2005-360T20:29:30	0	0	Non-SPASS		
INMS_019TI_T9INBD001_CIRS	2005-360T06:54:00		000T11:05:30	2005-360T17:59:30	100	3.95	Non-SPASS		
INMS_019TI_T9CLOSE001_UVIS	2005-360T17:59:30	GMB_E019_Titan9-000T01:00:00	000T02:00:00	2005-360T19:59:30	1498	10.786	Non-SPASS		
INMS_019TI_T9OUTBD001_UVIS	2005-360T19:59:30	GMB_E019_Titan9+000T01:00:00	000T13:40:06	2005-361T09:39:36	100	4.921	Non-SPASS		
INMS_019SA_SURVEY004_RIDER	2005-361T09:39:36		000T03:53:24	2005-361T13:33:00	50	0.7	Non-SPASS		
INMS_019SA_SURVEY005_RIDER	2005-361T13:33:00		002T16:14:00	2005-364T05:47:00	50	11.562	Non-SPASS		
ISS_019TI_FIRNADCMP002_CIRS	2005-360T07:49:30	GMB_E019_Titan9-000T11:10:00	000T02:10:00	2005-360T09:59:30	0	120	SPASS Rider		
ISS_019TI_MEDRES001_VIMS	2005-360T09:59:30	GMB_E019_Titan9-000T09:00:00	000T04:00:00	2005-360T13:59:30	0	200	SPASS Rider		
ISS_019TI_GLBMAPNLP001_PRIME	2005-360T13:59:30	GMB_E019_Titan9-000T05:00:00	000T01:00:00	2005-360T14:59:30	0	150	Prime	ISS_NAC to Titan	NEG_X to Sur
ISS_019TI_HDAC001_UVIS	2005-360T17:17:30	GMB_E019_Titan9-000T01:42:00	000T04:12:00	2005-360T21:29:30	0	400	SPASS Rider		
ISS_019TI_EUVFUV001_UVIS	2005-360T21:29:30	GMB_E019_Titan9+000T02:30:00	000T06:24:00	2005-361T03:53:30	0	28	SPASS Rider		
MAG_019CO_TINTERACT002_RIDER	2005-360T06:59:00		000T08:00:30	2005-360T14:59:30	1976	56.112	Non-SPASS		
MAG_019TI_MAGTITAN001_PRIME	2005-360T14:59:30	GMB_E019_Titan9-000T04:00:00	000T08:00:00	2005-360T22:59:30	1976	56.909	Non-SPASS		
MAG_019CO_TINTERACT003_RIDER	2005-360T22:59:30	GMB_E019_Titan9+000T04:00:00	000T10:35:26	2005-361T09:34:56	1976	75.337	Non-SPASS		
MAG_019OT_SURVEY006_RIDER	2005-361T09:34:56		000T03:59:04	2005-361T13:34:00	600	8.606	Non-SPASS		
MIMI_019TI_T9EXTINB001_CIRS	2005-360T06:59:00		000T11:00:30	2005-360T17:59:30	1800	70.555	SPASS Rider		
MIMI_019TI_T9CLOSE001_UVIS	2005-360T17:59:30	GMB_E019_Titan9-000T01:00:00	000T02:00:00	2005-360T19:59:30	1800	12.96	SPASS Rider		
MIMI_019TI_T9EXTOUT001_UVIS	2005-360T19:59:30	GMB_E019_Titan9+000T01:00:00	000T17:34:00	2005-361T13:33:00	1800	113.832	SPASS Rider		
MIMI_019CO_SURVEY004_MAPS	2005-361T13:28:50		002T16:23:10	2005-364T05:52:00	900	208.611	Non-SPASS		
MP_011NA_DSS43DOWN001_NA	2005-199T00:00:00		168T00:00:00	2006-002T00:00:00	0	0	Non-SPASS		
MP_019SA_REV019_NA	2005-345T04:26:00		025T09:42:00	2006-005T14:08:00	0	0	Non-SPASS		
MP_019NA_SEQUENCE017_NA	2005-351T14:21:00	E019_SEQUENCE_017+000T00:00:00	040T13:42:00	2006-027T04:03:00	0	0	SPASS Note		
MP_019TI_FLYBYT009_NA	2005-360T18:59:30		000T00:00:01	2005-360T18:59:31	0	0	Non-SPASS		
RPWS_019CO_TINTERACT001_UVIS	2005-360T06:59:00		001T02:35:56	2005-361T09:34:56	3500	335.147	Non-SPASS		
RPWS_019TI_TIINTRMED001_PRIME	2005-360T16:59:30	GMB_E019_Titan9-000T02:00:00	000T01:32:30	2005-360T18:32:00	10000.1	55.501	Non-SPASS		
RPWS_019TI_TICAD001_PRIME	2005-360T18:32:00	GMB_E019_Titan9-000T00:27:30	000T00:53:00	2005-360T19:25:00	1000001.1	318.004	Non-SPASS		
RPWS_019TI_TIINTRMED002_PRIME	2005-360T19:20:20		000T01:34:30	2005-360T20:54:50	10000.1	56.701	Non-SPASS		
RPWS_019SA_OUTSURVEY002_PRIME	2005-361T09:34:56		000T03:58:04	2005-361T13:33:00	1310	18.712	Non-SPASS		
RPWS_019SA_OUTSURVEY005_PRIME	2005-361T13:33:00		000T23:49:00	2005-362T13:22:00	2620	224.641	Non-SPASS		
RSS_019TI_KADOWN002_RSS	2005-361T02:29:00		000T11:05:00	2005-361T13:34:00	0	0	SPASS Rider		
SP_019NA_G70OBSNON361_NA	2005-360T06:59:00		000T21:35:00	2005-361T04:34:00	0	0	Non-SPASS		
SP_019NA_TOSTSEG360_NA	2005-360T06:59:00		001T06:35:00	2005-361T13:34:00	0	0	SPASS Note		
SP_019TI_WAYPTTURN360_PRIME	2005-360T06:59:00		000T00:12:00	2005-360T07:11:00	0	0	Prime	XBAND to Earth	NEG_X to Sur
SP_019TI_WAYPTTURN460_PRIME	2005-360T07:11:00		000T00:23:00	2005-360T07:34:00	0	0	New Waypoint	ISS_NAC to Titan	NEG_X to Sur
SP_019NA_DEADTIME360_PRIME	2005-360T07:34:30		000T00:15:00	2005-360T07:49:30	0	0	Prime		
SP_019NA_DEADTIME361_PRIME	2005-361T03:53:30		000T00:10:30	2005-361T04:04:00	0	0	Prime		
SP_019TI_DLTURN361_PRIME	2005-361T04:04:00		000T00:30:00	2005-361T04:34:00	0	0	Non-SPASS		
SP_019EA_G70METNON361_PRIME	2005-361T04:34:00		000T09:00:00	2005-361T13:34:00	0	0	Prime	XBAND to Earth	
SP_019NA_G34BWBGRSS361_SP	2005-361T04:34:00		000T09:00:00	2005-361T13:34:00	0	0	Non-SPASS		
SP_019NA_G70METNON361_SP	2005-361T04:34:00		000T09:00:00	2005-361T13:34:00	0	0	Non-SPASS		
UVIS_019TI_FIRNADCMP003_CIRS	2005-360T07:49:30	GMB_E019_Titan9-000T11:10:00	000T02:10:00	2005-360T09:59:30	1006.4	7.85	SPASS Rider		
UVIS_019TI_MEDRES001_VIMS	2005-360T09:59:30	GMB_E019_Titan9-000T09:00:00	000T04:00:00	2005-360T13:59:30	1006.4	14.492	SPASS Rider		
UVIS_019TI_GLOBMAP001_ISS	2005-360T13:59:30	GMB_E019_Titan9-000T05:00:00	000T01:00:00	2005-360T14:59:30	5032	18.115	SPASS Rider		
UVIS_019TI_HDAC001_PRIME	2005-360T14:59:30	GMB_E019_Titan9-000T04:00:00	000T06:30:00	2005-360T21:29:30	1006.4	23.55	Prime	ISS_NAC to Titan (0.0,	POS_X to NS
UVIS_019TI_EUVFUV001_PRIME	2005-360T21:29:30	GMB_E019_Titan9+000T02:30:00	000T06:24:00	2005-361T03:53:30	5032	115.937	Prime	ISS_NAC to Titan	POS_X to NS
UVIS_019SW_IPHSURVEY027_RIDER	2005-361T04:34:00		000T09:00:00	2005-361T13:34:00	76	2.462	Non-SPASS		
VIMS_019TI_NADIRCOMP001_CIRS	2005-360T07:49:30	GMB_E019_Titan9-000T11:10:00	000T02:10:00	2005-360T09:59:30	10897.4	85	SPASS Rider		
VIMS_019TI_MEDRES001_PRIME	2005-360T09:59:30	GMB_E019_Titan9-000T09:00:00	000T03:00:00	2005-360T12:59:30	19629.6	212	Prime	VIMS_IR to Titan	NEG_X to Sur
VIMS_019TI_GBMAPHDACC001_ISS	2005-360T13:59:30	GMB_E019_Titan9-000T05:00:00	000T01:00:00	2005-360T14:59:30	27777.8	100	SPASS Rider		
VIMS_019TI_HDAC001_UVIS	2005-360T14:59:30	GMB_E019_Titan9-000T04:00:00	000T06:24:00	2005-360T21:23:30	5425.3	125	SPASS Rider		
VIMS_019TI_HDAC001_UVIS	2005-360T21:29:30	GMB_E019_Titan9+000T02:30:00	000T06:35:00	2005-361T04:04:30	5822.8	138	SPASS Rider		

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

DOWNLINK PASS NAME	OBSERVATION_PERIOD		DOWNLINK_PASS														
	Start doy hh:mm	End doy hh:mm	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)	CAROVR (%)	
SP_019EA_G70METNON361_PRIME	361 04:34	361 13:34	0	3413	74	3486	3421	-64	0	375	53	3849	4507	658	592	13%	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	360 06:59	361 04:34	364.6	19.1	242.9	17.8	898.0	153.5	139.9	0.0	702.2	179.9	660.0	0.0	0.0	3377.9
OBSERVATION_SI	360 06:59	361 04:34	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
SP_019EA_G70METNON361_PRIME	361 04:34	361 13:34	87.5	7.5	86.4	2.5	0.0	44.3	58.5	0.0	82.1	2.5	0.0	0.0	0.0	371.4
DAILY TOTAL SCIENCE	360 06:59	361 13:34	452.1	26.6	333.3	20.4	898.0	197.8	198.4	0.0	784.2	182.4	660.0	0.0		

TOST agreed that the updates to CIMS based on new designs would eliminate this overrun.

T09 SPASS

Request	Riders	Start (SCET)	Start (Epoch)	Duration	End (SCET)	Primary	Secondary	Comments
Sequence S017, length = 42 ...		2005-351T14:21:00	E019_SEQUENCE_017+000	040T13:42:00	2006-027T04:03:00			
TOST rev 19 Segment		2005-360T06:59:00		001T06:35:00	2005-361T13:34:00			
SP_019TI_WAYPTTURN360_PRIME	M	2005-360T06:59:00		000T00:12:00	2005-360T07:11:00	XBAND to Earth	NEG_X to Sun	
SP_019TI_WAYPTTURN460_PRIME	M	2005-360T07:11:00		000T00:23:00	2005-360T07:34:00	ISS_NAC to Titan	NEG_X to Sun	
NEW WAYPOINT		2005-360T07:34:00		001T06:00:00	2005-361T13:34:00	ISS_NAC to Titan	NEG_X to Sun	
SP_019NA_DEADTIME360_PRIME	M	2005-360T07:34:30		000T00:15:00	2005-360T07:49:30	ISS_NAC to Titan	NEG_X to Sun	
CIRS_019TI_FIRNADCMP002_PRIME	C, I, M, U,	2005-360T07:49:30	GMB_ED19_Titan9-000T11:10	000T02:10:00	2005-360T09:59:30	CIRS_FP1 to Titan	PIC	
VIMS_019TI_MEDRES001_PRIME	C, I, M, U,	2005-360T09:59:30	GMB_ED19_Titan9-000T09:00	000T03:00:00	2005-360T12:59:30	VIMS_IR to Titan	NEG_X to Sun	
ISS_019TI_GLBMAPNLP001_PRIME	C, I, M, U,	2005-360T12:59:30	GMB_ED19_Titan9-000T06:00	000T02:00:00	2005-360T14:59:30	ISS_NAC to Titan	NEG_X to Sun	
UVIS_019TI_HDAC001_PRIME	C, I, M, V,	2005-360T14:59:30	GMB_ED19_Titan9-000T04:00	000T06:30:00	2005-360T21:29:30	ISS_NAC to Titan (0.0,-19.0,0.0 de	POS_X to NSP	
UVIS_019TI_EUVFUV001_PRIME	C, I, M, R,	2005-360T21:29:30	GMB_ED19_Titan9+000T02:30	000T06:24:00	2005-361T03:53:30	ISS_NAC to Titan	POS_X to NSP	
SP_019NA_DEADTIME361_PRIME	M, R, V	2005-361T03:53:30		000T00:10:30	2005-361T04:04:00	ISS_NAC to Titan	NEG_X to Sun	
SP_019TI_DLTURN361_PRIME	M, R, V	2005-361T04:04:00		000T00:30:00	2005-361T04:34:00	XBAND to Earth	POS_X to NEP	
SP_019EA_G70METNON361_PRIME	C, M, R	2005-361T04:34:00		000T09:00:00	2005-361T13:34:00	XBAND to Earth	Rolling	

Telemetry Rates

TELEMETRY MODE REPORT

EPOCH RELATIVE	UTC	DURATION	TELEMETRY MODE	REQUEST
	2005-360T06:59:00.000	21:35:00	S_N_ER_3	SP_019NA_G70OBSNON361_NA
	2005-361T04:34:00.000	00:32:00	RTE_N_SPB_142200	SP_019EA_G70METNON361_PRIME
	2005-361T05:06:00.000	08:13:00	RTE_N_SPB_165900	SP_019EA_G70METNON361_PRIME
	2005-361T13:19:00.000	00:15:00	RTE_N_SPB_142200	SP_019EA_G70METNON361_PRIME

DSN Report

CASSINI DOWNLINK/DSN COVERAGE SUMMARY for t9.apf generated on 2005-Aug-16 15:11:03

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

DOWNLINK PASS					DSN PASS						
NAME	START_TO_END	START_TO_END	DUR	DATA_RATES	ID	START_TO_END	START_TO_END	DUR	CALS	LABEL	CNFG
	SCET	ERT	hh:mm	kbps		SCET	ERT	hh:mm	min		
G70METNON361	361T04:34-13:34	361T05:43-14:43	09:00	142,165,142	25	361T04:34-13:34	361T05:40-14:45	09:05	90/15	Tit Grav	N748
				^-- and also -->	14	361T04:34-13:34	361T05:40-14:45	09:05	60/15	Ranging_ X_up_on	

NAV Report

CASSINI NAVIGATION SUMMARY for t9.apf generated on 2005-Aug-16 15:11:40

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

ON EARTH-LINE FOR DOWNLINK				TRACKING SUPPORT							
NAME	START_TO_END	DUR	ID	BOT_TO_EOT	GND_UPLINK	ARRIV_SC	RCV_GND	2-WAY	DOP	RNG	
	SCET	hh:mm		UTC	UTC	SCET	ERT		hh:mm	OK? OK?	
G70METNON361	361T04:34-13:34	09:00	25	361T05:40-14:45	05:50-14:40	06:59-13:34	08:08-14:43	06:35	Y?	YES	
				^-- and also -->	14	361T05:40-14:45	05:50-14:40	06:59-13:34	08:08-14:43	06:35 Y? Y?	

Open Issues

- PDT Run was clean (/home2/sp/djequils/T09/SMT/pdt_Run_#)
- SSR is currently being overfilled by 64Mb (based on an assumed initial configuration file similar to S14).
 - OpNav should be asked to compress Data Volume as much as possible (reducing P5 size)
 - Teams will update Data Volume Usage once detailed designs are done (Sept 23rd). Updates should be ready for Sponge Bit Meeting
 - Sequence level SMT run should be done to confirm initial conditions assumption
- CIRS DSCAL starts 45 seconds after start of downlink which is in violation of the TOST checklist. Two emails sent to Marcia (8/16 and 8/17).
 - Confirm if this is OK or a problem that needs to be fixed.

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.

Constraint	C=Comply V=Violate N/A=Not Applicable	Comments	Disposition
1. A. SP has checked all waypoints turns to and from waypoints.	C		
B. All initial downlink attitudes have been checked as waypoints.	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 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	N/A		
B. ±3 hours from targeted Titan Flyby	N/A		
C. OpNavs preceding/following a downlink	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.	C	K. Klaasen's margin for flyby T09 is 15 min. according to memo dated .	
6. Waypoints changes are ≤3 per day	C		
A. All turns that accomplish the waypoint strategy are requested by SP or OpNav.	C		
7. Live Movable Blocks limited to the following orbits: 7, 8, 9, 10, 12, 28, 51, 56, 57, 60, 63, 64	N/A		

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

(DOUBLE-CLICK TO MAKE CHANGES)