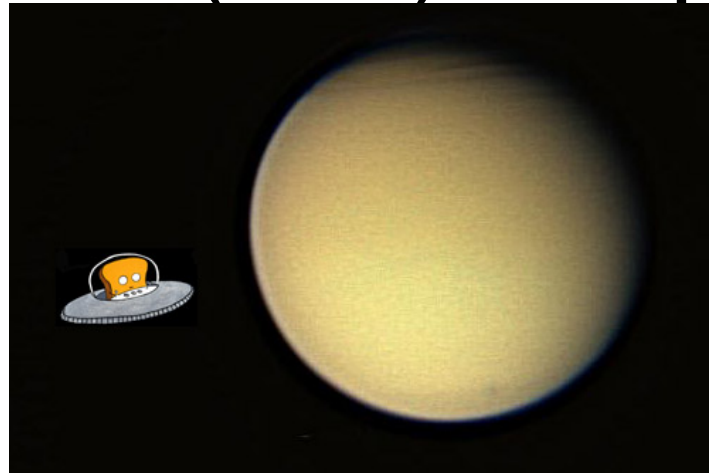


TOST: Integration 125TI (T66) Wrapup



July 8, 2009

Jo Pitesky, Nora Kelly, Trina Ray, Kim Steadman,

Segment Basics

Segment times:

BEG: 2010-028T07:16:00

END: 2010-031T07:01:00

Altitude: 7490 km

Time of C/A: 2010-028T22:28:49

Epoch: GMB_E125_Titan66

Sequence: S57

<p>At least 2 weeks prior to the Kickoff Meeting make sure that all requests are in CIMS</p>	<p>Kickoff Meeting</p> <p><u>Present</u> Master Timeline Draft Op Modes Draft Telem Modes Draft RCS Deadband</p> <p><u>Discuss</u> Timeline Op Modes Telem Modes Deadbands for RCS</p> <p><u>Homework</u> Custom Handoff Attitudes Unique Op Mode Requirements (SCO) Turn Assignments CCRs High Level Science</p>	<p>Detailed Meeting</p> <p><u>Present</u> Master Timeline SMT Report Timeline Graphic TOL SPASS DSN Reports Dual Playback Science Draft Data Volume Cuts</p> <p><u>Discuss</u> Data Volume Cuts</p> <p><u>Homework</u> CCRs High Level Science Objectives</p>	<p>Wrap-up Meeting</p> <p><u>Present</u> Wrap-up Package Checklist High Level Science Objectives</p> <p><u>Discuss</u> N/A</p> <p><u>Homework</u> N/A</p>
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High-level Science Objectives (1)

ISS – On this high-altitude encounter, ISS will acquire high-resolution observations during and after closest-approach, covering territory from the trailing hemisphere at high southern latitudes northeast to near-equatorial Adiri. (*DOY 028-029*) ISS will also ride along with VIMS to track clouds (*DOY 029*) and will continue to monitor clouds and the evolution thereof for an extra day after the Titan encounter. (*DOY 030*)

VIMS – On the inbound leg, VIMS will have the opportunity to do one stellar occultation which will allow us to constrain the composition and the spectral properties of Titan's atmosphere. (*DOY 028*) Then, VIMS will be ride along with ISS at closest approach and will mosaic an area located South of Adiri with a resolution between 5 and 20 km/pixel. . (*DOY 028-029*) On the outbound VIMS will keep monitoring for mid-latitude clouds which are predicted to vanish during Titan's northern Spring according to Global Circulation Models (*DOY 029-030*).

CIRS – Obtain vertical profiles of gas composition, aerosols and temperature near 45S. *DOY 028*

High-level Science Objectives (2)

UVIS – UVIS will obtain an image cube of Titan's atmosphere at EUV and FUV wavelengths by sweeping its slit across the disk. These cubes provide spectral and spatial information on nitrogen emissions, H emission and absorption, absorption by simple hydrocarbons, and the scattering properties of haze aerosols. This is one of many such cubes gathered over the course of the mission to provide latitude and seasonal coverage of Titan's middle atmosphere and stratosphere. *DOY 028-029*

MIMI– Energetic ion and electron energy input to atmosphere (Excellent ENA)
DOY 028-030

RPWS – Measure thermal plasmas in Titan's ionosphere and surrounding environment; search for lightning in Titan's atmosphere; investigate the interaction of Titan with Saturn's magnetosphere. *DOY 028-030*

MAG – Second 'blind flyby' since MAG is unlikely to detect Titan's induced magnetosphere. Occurring in the same SLT sector as T52-T62, it will be used to characterize Saturn's background magnetic field variation with SKR longitude at a fixed SLT. *DOY 028-030*

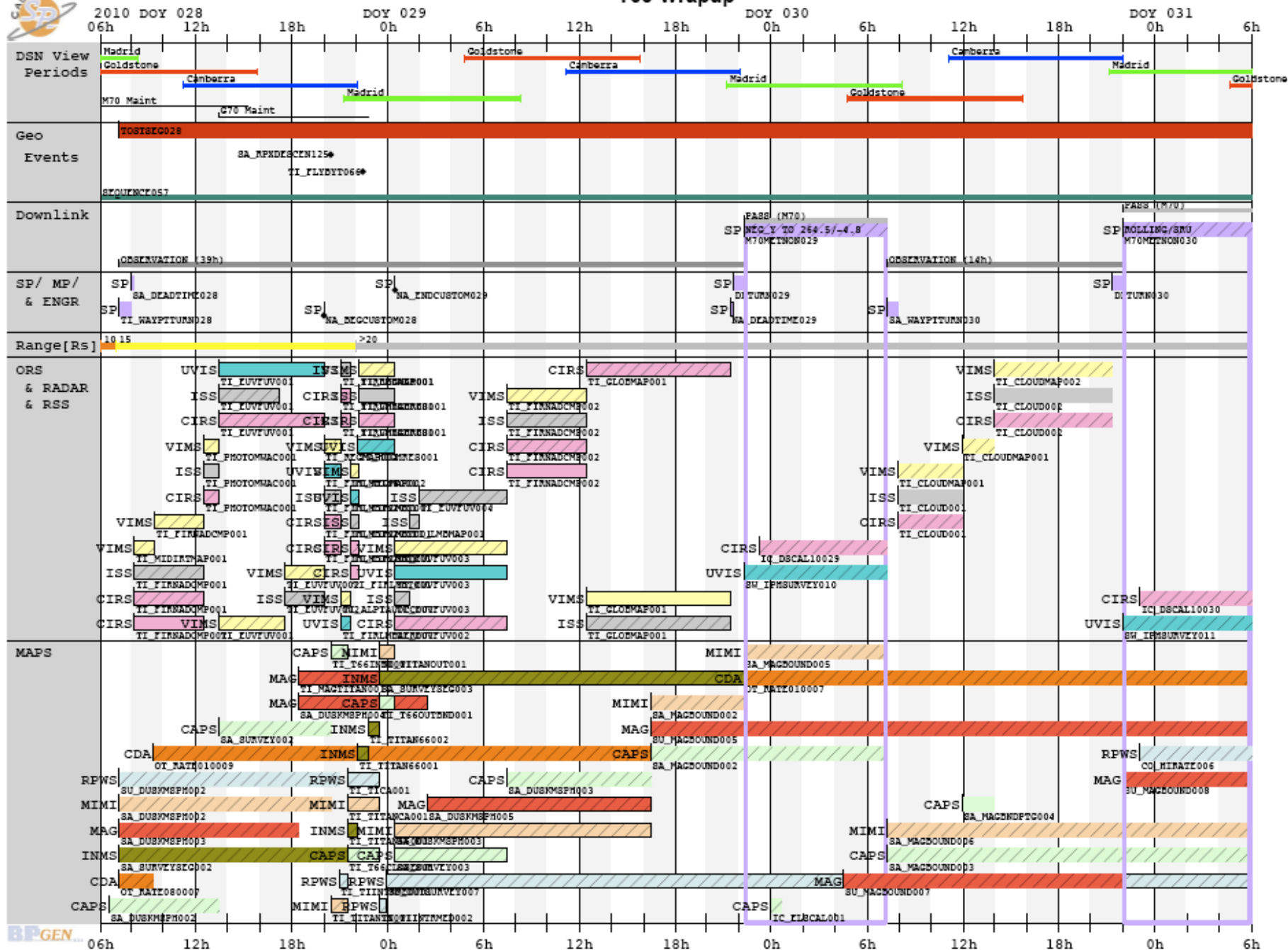
Master Timeline for T66

T66	7198
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Start Time	End Time	Prime Activity	Obs. Detail	Op Mode	TLM Mode	Comments
2010-028T07:16:00	2010-028T07:56:00	SP Turn to WP	NEG_Y to Titan, NEG_X to SUN	DFPW Normal	S_N_ER_3	
2010-028T07:56:00	C/A - 14:21:31	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
C/A - 14:21:31	-10:00	CIRS	Template M4	DFPW Normal	S_N_ER_3	
-10:00	-09:00	ISS	Template N	DFPW Normal	S_N_ER_3	
-09:00	-2:30	UVIS	Template X	DFPW Normal	S_N_ER_3	
begin custom period					S_N_ER_3	
-2:30	-1:22	CIRS	Mid-Southern Latitude	DFPW Normal	S_N_ER_3	
-1:22	-00:48:30	CIRS	Mid-Southern Latitude	DFPW Normal	S_N_ER_3	Incorporates VIMS Stellar Occultation
-00:48:30	-00:15	CIRS	Mid-Southern Latitude	DFPW Normal	S_N_ER_3	
-00:15	0	ISS		DFPW Normal	S_N_ER_3	VIMS riding along
2010-028T22:32:31		CLOSEST APPROACH	NEG_Y to Titan, NEG_X to SUN		S_N_ER_3	
0	+02:00	ISS		DFPW Normal	S_N_ER_3	VIMS riding along
end custom period					S_N_ER_3	
+02:00	+09:00	UVIS	Template X	DFPW Normal	S_N_ER_3	
+09:00	+14:00	CIRS	Template C	DFPW Normal	S_N_ER_3	
+14:00	C/A + 23	VIMS	Template B(Z)	DFPW Normal	S_N_ER_3	
C/A + 23	2010-029T21:36:00	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
2010-029T21:36:00	2010-029T22:16:00	SP Turn to Earth for downlink		DFPW Normal	S_N_ER_3	
2010-029T22:16:00	2010-030T07:16:00	70-m Array		DFPW Normal	RTE_N_SPB	
2010-030T07:16:00	2010-030T07:56:00	SP Turn to WP		DFPW Normal	S_N_ER_3	
2010-030T07:56:00	2010-030T12:00:00	ISS	ISS_NAC to Titan, NEG_X to Sun	DFPW Normal	S_N_ER_3	Titan cloud monitoring
2010-030T12:00:00	2010-030T14:00:00	CAPS		DFPW Normal	S_N_ER_3	MAPS survey
2010-030T14:00:00	2010-030T21:21:00	ISS	ISS_NAC to Titan, NEG_X to Sun	DFPW Normal	S_N_ER_3	Titan cloud monitoring
2010-030T21:21:00	2010-030T22:01:00	SP Turn to Earth for downlink		DFPW Normal	S_N_ER_3	
2010-030T22:01:00	2010-031T07:01:00			DFPW Normal	RTE_N_SPB	



T66-Wrapup



BPGEN

T66 Wrap-Up Telemetry Mode Report

TELEMETRY MODE REPORT

EPOCH RELATIVE	UTC	DURATION	TELEMETRY MODE	REQUEST
	2010-028T07:16:00.000	001T15:00:00	S_N_ER_3	SP_125NA_M70OBSNON029_NA
	2010-029T22:16:00.000	01:00:00	RTE_N_SPB_110600	SP_125EA_M70METNON029_PRIME
	2010-029T23:16:00.000	01:30:00	RTE_N_SPB_142200	SP_125EA_M70METNON029_PRIME
	2010-030T00:46:00.000	04:00:00	RTE_N_SPB_165900	SP_125EA_M70METNON029_PRIME
	2010-030T04:46:00.000	01:30:00	RTE_N_SPB_142200	SP_125EA_M70METNON029_PRIME
	2010-030T06:16:00.000	01:00:00	RTE_N_SPB_110600	SP_125EA_M70METNON029_PRIME
	2010-030T07:16:00.000	14:45:00	S_N_ER_3	SP_125NA_M70OBSNON030_NA
	2010-030T22:01:00.000	01:15:00	RTE_N_SPB_99540	SP_125EA_M70METNON030_PRIME
	2010-030T23:16:00.000	01:30:00	RTE_N_SPB_142200	SP_125EA_M70METNON030_PRIME
	2010-031T00:46:00.000	04:00:00	RTE_N_SPB_165900	SP_125EA_M70METNON030_PRIME
	2010-031T04:46:00.000	01:30:00	RTE_N_SPB_142200	SP_125EA_M70METNON030_PRIME
	2010-031T06:16:00.000	00:45:00	RTE_N_SPB_110600	SP_125EA_M70METNON030_PRIME

T63 Wrap-Up SMT 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)	(%)	CAROVR (Mb)
SP_125EA_M70METNON029_PRIME	029 22:16	030 07:16	0	3392	165	3557	3546	-10	0	421	53	4020	3991	-30	0	0%	30
SP_125EA_M70METNON030_PRIME	030 22:01	031 07:01	30	1781	62	1872	3546	1674	0	2028	53	3953	3950	-3	0	0%	3

TOST accepts risk of losing final 3 Mb at end of segment if not reduced by compression

T66 Wrap-Up SMT Report (continued)

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	028 07:16	029 22:16	496.8	78.4	376.0	24.1	656.0	209.1	167.9	0.0	703.9	277.5	357.0	0.0	163.0	3509.6
OBSERVATION_SI	028 07:16	029 22:16	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0
SP_125EA_M70METNON029_PRIME	029 22:16	030 07:16	160.2	17.0	86.4	3.2	0.0	64.0	38.9	0.0	42.4	4.9	0.0	0.0	0.0	417.1
DAILY TOTAL SCIENCE	028 07:16	030 07:16	657.0	95.4	477.4	27.3	656.0	273.1	206.8	0.0	746.3	282.4	357.0	0.0	163.0	
OBSERVATION_NOR	030 07:16	030 22:01	424.8	27.8	164.4	5.3	800.0	104.9	95.6	0.0	69.6	0.0	72.0	0.0	61.6	1826.0
SP_125EA_M70METNON030_PRIME	030 22:01	031 07:01	259.2	17.0	86.4	3.2	0.0	64.0	58.3	0.0	1516.4	4.9	0.0	0.0	0.0	2009.5
DAILY TOTAL SCIENCE	030 07:16	031 07:01	684.0	44.8	250.8	8.5	800.0	168.9	153.9	0.0	1586.0	4.9	72.0	0.0	61.6	
TOTAL RECORDED (OPNAV data not included)			1341.0	140.2	728.2	35.9	1456.0	442.1	360.7	0.0	2332.3	287.3	429.0	0.0		

T66 Wrap-Up DSN Report

CASSINI DOWNLINK/DSN COVERAGE SUMMARY for 125TI_T66_090707.apf on 2009-Jul-08 14:09:59
 (+ = pass overlaps with previous pass; * = conflicts with DSN 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
M70METNON029	029T22:16-07:16	029T23:30-08:30	09:00	110,142,165,142,110	63	029T22:16-07:16	029T23:29-08:29	09:00	60 /15	TP	N003
M70METNON030	030T22:01-07:01	030T23:15-08:15	09:00	99,142,165,142,110	63	030T22:01-07:01	030T23:14-08:14	09:00	60 /15	TP	N003

TOL for T66 (1 of 2)

Request	Start Time	Epoch	Duration	End Time	Rate	Data Volume	SPASS Type	Primary Pointing	Secondary Pointing	Pointing Agreement
MP_125NA_SEQUENCE057_NA	2010-023115:00:00		037T04:04:00	2010-060T19:04:00	0	0	SPASS Note			
CAPS_125SA_DUSKMSPH002_PRIME	2010-028T07:16:00		000T06:12:49	2010-028T13:28:49	4000	89.476	SPASS Rider			
CDA_125OT_RATE080007_RIDER	2010-028T07:16:00		000T02:04:46	2010-028T09:20:46	4192	31.381	Non-SPASS			
INMS_125SA_SURVEYSEG002_INMS	2010-028T07:16:00		000T14:12:49	2010-028T21:28:49	100	5.117	Non-SPASS			
MAG_125SA_DUSKMSPH003_MAPS	2010-028T07:16:00		000T11:12:49	2010-028T18:28:49	988	39.885	Non-SPASS			
MIMI_125SA_DUSKMSPH002_RIDER	2010-028T07:16:00		000T13:12:49	2010-028T20:28:49	1200	57.083	SPASS Rider			
RPWS_125SU_DUSKMSPH002_CAPS	2010-028T07:16:00		000T13:42:49	2010-028T20:58:49	2132.5	105.278	Non-SPASS			
SP_125NA_M700BSNON029_NA	2010-028T07:16:00		001T15:00:00	2010-029T22:16:00	0	0	Non-SPASS			
SP_125NA_TOSTSEG028_NA	2010-028T07:16:00		002T23:45:00	2010-031T07:01:00	0	0	SPASS Note			
SP_125TI_WAYPTTURN028_PRIME	2010-028T07:16:00		000T00:40:00	2010-028T07:56:00	0	0	New Waypoint	NEG Y to Titan	NEG X to Sun	
SP_125SA_DEADTIME028_PRIME	2010-028T07:56:00		000T00:11:18	2010-028T08:07:18	0	0	Prime	NEG Y to Titan	NEG X to Sun	
CIRS_125TI_FIRNADCMP001_PRIME	2010-028T08:07:18	GMB_E125_Titan66-000T14:21:31	000T04:21:31	2010-028T12:28:49	4000	62.764	Prime	CIRS_FP1 to Titan	PIC	
CIRS_125TI_FIRNADCMP001_SI	2010-028T08:07:18	GMB_E125_Titan66-000T14:21:31	000T04:21:31	2010-028T12:28:49	0	4	SPASS Rider			
ISS_125TI_FIRNADCMP001_CIRS	2010-028T08:07:18	GMB_E125_Titan66-000T14:21:31	000T04:21:31	2010-028T12:28:49	0	21	SPASS Rider			
VIMS_125TI_MIDIRMAP001_CIRS	2010-028T08:07:18	GMB_E125_Titan66-000T14:21:31	000T01:21:31	2010-028T09:28:49	2044.6	10	SPASS Rider			
CDA_125OT_RATE010009_RIDER	2010-028T09:20:46		001T12:55:14	2010-029T22:16:00	353.7	47.012	Non-SPASS			
VIMS_125TI_FIRNADCMP001_CIRS	2010-028T09:28:49	GMB_E125_Titan66-000T13:00:00	000T03:00:00	2010-028T12:28:49	1388.9	15	SPASS Rider			
CIRS_125TI_PHOTOMWAC001_ISS	2010-028T12:28:49	GMB_E125_Titan66-000T10:00:00	000T01:00:00	2010-028T13:28:49	4000	14.4	SPASS Rider			
ISS_125TI_PHOTOMWAC001_PRIME	2010-028T12:28:49	GMB_E125_Titan66-000T10:00:00	000T01:00:00	2010-028T13:28:49	0	100	Prime	ISS_NAC to Titan	NEG X to Sun	
VIMS_125TI_PHOTOMWAC001_ISS	2010-028T12:28:49	GMB_E125_Titan66-000T10:00:00	000T01:00:00	2010-028T13:28:49	4166.7	15	SPASS Rider			
CAPS_125SA_SURVEY002_PRIME	2010-028T13:28:49		000T07:00:00	2010-028T20:28:49	1000	25.2	Non-SPASS			
CIRS_125TI_EUVFUV001_UVIS	2010-028T13:28:49	GMB_E125_Titan66-000T09:00:00	000T06:30:00	2010-028T19:58:49	2000	46.8	SPASS Rider			
ISS_125TI_EUVFUV001_UVIS	2010-028T13:28:49	GMB_E125_Titan66-000T09:00:00	000T03:50:00	2010-028T17:18:49	0	25	SPASS Rider			
UVIS_125TI_EUVFUV001_PRIME	2010-028T13:28:49	GMB_E125_Titan66-000T09:00:00	000T06:30:00	2010-028T19:58:49	5032	117.749	Prime	UVIS_FUV to Titan	NEG X to Sun	
VIMS_125TI_EUVFUV001_UVIS	2010-028T13:28:49	GMB_E125_Titan66-000T09:00:00	000T04:10:00	2010-028T17:38:49	1333.3	20	SPASS Rider			
ISS_125TI_EUVFUV002_UVIS	2010-028T17:38:49	GMB_E125_Titan66-000T04:50:00	000T02:20:00	2010-028T19:58:49	0	25	SPASS Rider			
VIMS_125TI_EUVFUV002_UVIS	2010-028T17:38:49	GMB_E125_Titan66-000T04:50:00	000T02:20:00	2010-028T19:58:49	2381	20	SPASS Rider			
MAG_125SA_DUSKMSPH004_MAPS	2010-028T18:28:49	GMB_E125_Titan66-000T04:00:00	000T08:00:00	2010-029T02:28:49	0	0	Non-SPASS			
MAG_125TI_MAGTITAN001_PRIME	2010-028T18:28:49	GMB_E125_Titan66-000T04:00:00	000T08:00:00	2010-029T02:28:49	988	28.454	Non-SPASS			
CIRS_125TI_FIRLMBINT001_PRIME	2010-028T19:58:49	GMB_E125_Titan66-000T02:30:00	000T01:08:00	2010-028T21:06:49	4000	16.32	Prime	CIRS_FP1 to Titan	PIC	
CIRS_125TI_FIRLMBINT001_SI	2010-028T19:58:49	GMB_E125_Titan66-000T02:30:00	000T01:08:00	2010-028T21:06:49	0	2	SPASS Rider			
ISS_125TI_FIRLMBINT001_CIRS	2010-028T19:58:49	GMB_E125_Titan66-000T02:30:00	000T01:08:00	2010-028T21:06:49	0	15	SPASS Rider			
SP_125NA_BEGCUSTOM028_NA	2010-028T19:58:49	GMB_E125_Titan66-000T02:30:00	000T00:00:01	2010-028T19:58:50	0	0	SPASS Note			
UVIS_125TI_FIRLMBINT001_CIRS	2010-028T19:58:49	GMB_E125_Titan66-000T02:30:00	000T01:08:00	2010-028T21:06:49	3019.2	12.318	SPASS Rider			
VIMS_125TI_REGMAP001_CIRS	2010-028T19:58:49	GMB_E125_Titan66-000T02:30:00	000T01:08:00	2010-028T21:06:49	9803.9	40	SPASS Rider			
CAPS_125TI_T66INBD001_PRIME	2010-028T20:28:49	GMB_E125_Titan66-000T02:00:00	000T01:00:00	2010-028T21:28:49	4000	14.4	SPASS Rider			
MIMI_125TI_TITANIN001_RIDER	2010-028T20:28:49	GMB_E125_Titan66-000T02:00:00	000T01:00:00	2010-028T21:28:49	1200	4.32	SPASS Rider			
MP_125SA_RPXDESCEN125_NA	2010-028T20:29:39		000T00:00:01	2010-028T20:29:40	0	0	Non-SPASS			
RPWS_125TI_TIIINTRMED001_PRIME	2010-028T20:58:49	GMB_E125_Titan66-000T01:30:00	000T00:30:00	2010-028T21:28:49	15232	27.418	Non-SPASS			
CIRS_125TI_FIRLMBAR001_PRIME	2010-028T21:06:49	GMB_E125_Titan66-000T01:22:00	000T00:33:30	2010-028T21:40:19	4000	8.04	Prime	CIRS_FP1 to Titan	PIC	Includes a VIMS Titan atm occulation of alpTau (RA/E 68.980/16.509) from 2010 028T21:32:00 to 21:36:00
CIRS_125TI_FIRLMBAR001_SI	2010-028T21:06:49	GMB_E125_Titan66-000T01:22:00	000T00:33:30	2010-028T21:40:19	0	2	SPASS Rider			
ISS_125TI_FIRLMBAR001_CIRS	2010-028T21:06:49	GMB_E125_Titan66-000T01:22:00	000T00:33:30	2010-028T21:40:19	0	15	SPASS Rider			
UVIS_125TI_FIRLMBAR001_CIRS	2010-028T21:06:49	GMB_E125_Titan66-000T01:22:00	000T00:33:30	2010-028T21:40:19	3019.2	6.069	SPASS Rider			
VIMS_125TI_ALPTAUOCC001_CIRS	2010-028T21:06:49	GMB_E125_Titan66-000T01:22:00	000T00:33:30	2010-028T21:40:19	10945.3	22	SPASS Rider			
CAPS_125TI_T66CLOSE001_PRIME	2010-028T21:28:49	GMB_E125_Titan66-000T01:00:00	000T02:00:00	2010-028T23:28:49	16000	115.2	SPASS Rider			
INMS_125TI_TITAN66001_INMS	2010-028T21:28:49	GMB_E125_Titan66-000T01:00:00	000T00:40:00	2010-028T22:08:49	1498	3.595	Non-SPASS			
MIMI_125TI_TITANCA001_RIDER	2010-028T21:28:49	GMB_E125_Titan66-000T01:00:00	000T02:00:00	2010-028T23:28:49	2000	14.4	SPASS Rider			
RPWS_125TI_TICA001_PRIME	2010-028T21:28:49	GMB_E125_Titan66-000T01:00:00	000T02:00:00	2010-028T23:28:49	60927.9	438.681	Non-SPASS			
CIRS_125TI_FIRLMBT001_PRIME	2010-028T21:40:19	GMB_E125_Titan66-000T00:48:30	000T00:33:30	2010-028T22:13:49	4000	8.04	Prime	CIRS_FP1 to Titan	PIC	
CIRS_125TI_FIRLMBT001_SI	2010-028T21:40:19	GMB_E125_Titan66-000T00:48:30	000T00:33:30	2010-028T22:13:49	0	2	SPASS Rider			
ISS_125TI_FIRLMBT001_CIRS	2010-028T21:40:19	GMB_E125_Titan66-000T00:48:30	000T00:33:30	2010-028T22:13:49	0	15	SPASS Rider			
UVIS_125TI_FIRLMBT001_CIRS	2010-028T21:40:19	GMB_E125_Titan66-000T00:48:30	000T00:33:30	2010-028T22:13:49	3019.2	6.069	SPASS Rider			
VIMS_125TI_REGMAP002_CIRS	2010-028T21:40:19	GMB_E125_Titan66-000T00:48:30	000T00:33:30	2010-028T22:13:49	9950.2	20	SPASS Rider			
INMS_125TI_TITAN66001_RIDER	2010-028T22:08:49	GMB_E125_Titan66-000T00:20:00	000T00:40:00	2010-028T22:48:49	1498	3.595	Non-SPASS			
UVIS_125TI_HIGHRES001_ISS	2010-028T22:08:49	GMB_E125_Titan66-000T00:20:00	000T02:20:00	2010-029T00:28:49	1006.4	8.454	SPASS Rider			
CIRS_125TI_VHIGHRES001_ISS	2010-028T22:13:49	GMB_E125_Titan66-000T00:15:00	000T02:15:00	2010-029T00:28:49	4000	32.4	SPASS Rider			

TOL for T66 (2 of 2)

Request	Start Time	Epoch	Duration	End Time	Rate	Data Volume	SPASS Type	Primary Pointin	Secondary Pointing	Pointing Agreement
ISS 125TI_VHIGHRES001_PRIME	2010-028T22:13:49	GMB_E125_Titan66-000T00:15:00	000T02:15:00	2010-029T00:28:49	0	200	Prime	ISS_NAC to Titan	NEG_X to Sun	
VIMS 125TI_REGMAP001_ISS	2010-028T22:13:49	GMB_E125_Titan66-000T00:15:00	000T02:15:00	2010-029T00:28:49	11728.4	95	SPASS Rider			
MP 125TI_FLYBYT066_NA	2010-028T22:28:49		000T00:00:01	2010-028T22:28:50	0	0	SPASS Note			
INMS 125TI_TITAN66002_INMS	2010-028T22:48:49	GMB_E125_Titan66+000T00:20:00	000T00:40:00	2010-028T23:28:49	1498	3.595	Non-SPASS			
CAPS 125TI_T66OUTBDND001_PRIME	2010-028T23:28:49	GMB_E125_Titan66+000T01:00:00	000T01:00:00	2010-029T00:28:49	4000	14.4	SPASS Rider			
INMS 125SA_SURVEYSEG003_INMS	2010-028T23:28:49	GMB_E125_Titan66+000T01:00:00	002T07:32:10	2010-031T07:00:59	100	19.993	Non-SPASS			
MIMI 125TI_TITANOUT001_RIDER	2010-028T23:28:49	GMB_E125_Titan66+000T01:00:00	000T01:00:00	2010-029T00:28:49	1200	4.32	SPASS Rider			
RPWS 125TI_TIIINTRMED002_PRIME	2010-028T23:28:49	GMB_E125_Titan66+000T01:00:00	000T00:30:00	2010-028T23:58:49	15232	27.418	Non-SPASS			
RPWS 125SU_OUTSURVEY007_CAPS	2010-028T23:58:49	GMB_E125_Titan66+000T01:30:00	002T07:02:11	2010-031T07:01:00	1310	259.554	Non-SPASS			
CAPS 125SA_SURVEY003_PRIME	2010-029T00:28:49	GMB_E125_Titan66+000T02:00:00	000T07:00:00	2010-029T07:28:49	1000	25.2	Non-SPASS			
CIRS 125TI_EUVFUV002_UVIS	2010-029T00:28:49	GMB_E125_Titan66+000T02:00:00	000T07:00:00	2010-029T07:28:49	2000	50.4	SPASS Rider			
ISS 125TI_EUVFUV003_UVIS	2010-029T00:28:49	GMB_E125_Titan66+000T02:00:00	000T01:00:00	2010-029T01:28:49	0	25	SPASS Rider			
MIMI 125SA_DUSKMSPH003_RIDER	2010-029T00:28:49	GMB_E125_Titan66+000T02:00:00	000T15:56:11	2010-029T16:25:00	1200	68.845	SPASS Rider			
SP 125NA_ENDCUSTOM029_NA	2010-029T00:28:49	GMB_E125_Titan66+000T02:00:00	000T00:00:01	2010-029T00:28:50	0	0	SPASS Note			
UVIS 125TI_EUVFUV003_PRIME	2010-029T00:28:49	GMB_E125_Titan66+000T02:00:00	000T07:00:00	2010-029T07:28:49	5032	126.806	Prime	UVIS_FUV to Titan	NEG_X to Sun	
VIMS 125TI_EUVFUV003_UVIS	2010-029T00:28:49	GMB_E125_Titan66+000T02:00:00	000T07:00:00	2010-029T07:28:49	992.1	25	SPASS Rider			
ISS 125TI_LMBMAP001_UVIS	2010-029T01:28:49	GMB_E125_Titan66+000T03:00:00	000T00:30:00	2010-029T01:58:49	0	25	SPASS Rider			
ISS 125TI_EUVFUV004_UVIS	2010-029T01:58:49	GMB_E125_Titan66+000T03:00:00	000T05:30:00	2010-029T07:28:49	0	25	SPASS Rider			
MAG 125SA_DUSKMSPH005_MAPS	2010-029T02:28:49	GMB_E125_Titan66+000T04:00:00	000T13:56:11	2010-029T16:25:00	1976	99.138	Non-SPASS			
CAPS 125SA_DUSKMSPH003_PRIME	2010-029T07:28:49		000T08:56:10	2010-029T16:24:59	4000	128.68	SPASS Rider			
CIRS 125TI_FIRNADCM002_PRIME	2010-029T07:28:49	GMB_E125_Titan66+000T09:00:00	000T05:00:00	2010-029T12:28:49	4000	72	Prime	CIRS_FP1 to Titan	PIC	
CIRS 125TI_FIRNADCM002_SI	2010-029T07:28:49	GMB_E125_Titan66+000T09:00:00	000T05:00:00	2010-029T12:28:49	0	5	SPASS Rider			
ISS 125TI_FIRNADCM002_CIRS	2010-029T07:28:49	GMB_E125_Titan66+000T09:00:00	000T05:00:00	2010-029T12:28:49	0	15	SPASS Rider			
VIMS 125TI_FIRNADCM002_CIRS	2010-029T07:28:49	GMB_E125_Titan66+000T09:00:00	000T05:00:00	2010-029T12:28:49	1388.9	25	SPASS Rider			
CIRS 125TI_GLOBMAP001_VIMS	2010-029T12:28:49	GMB_E125_Titan66+000T14:00:00	000T09:00:00	2010-029T21:28:49	2000	64.8	SPASS Rider			
ISS 125TI_GLOBMAP001_VIMS	2010-029T12:28:49	GMB_E125_Titan66+000T14:00:00	000T09:00:00	2010-029T21:28:49	0	150	SPASS Rider			
VIMS 125TI_GLOBMAP001_PRIME	2010-029T12:28:49	GMB_E125_Titan66+000T14:00:00	000T09:00:00	2010-029T21:28:49	1543.2	50	Prime	VIMS_IR to Titan	NEG_X to Sun	
CAPS 125SA_MAGBOUND002_PRIME	2010-029T16:25:00		000T14:51:00	2010-030T07:16:00	4000	213.84	SPASS Rider			
MAG 125SU_MAGBOUND005_MAPS	2010-029T16:25:00		001T14:36:00	2010-031T07:01:00	1976	274.585	Non-SPASS			
MIMI 125SA_MAGBOUND002_RIDER	2010-029T16:25:00		000T05:51:00	2010-029T22:16:00	900	18.954	SPASS Rider			
SP 125NA_DEADTIME029_PRIME	2010-029T21:28:49	GMB_E125_Titan66+000T23:00:00	000T00:07:11	2010-029T21:36:00	0	0	Prime	NEG_Y to Titan	NEG_X to Sun	
SP 125SA_DLTRN029_PRIME	2010-029T21:36:00		000T00:40:00	2010-029T22:16:00	0	0	Prime	XBAND to Earth	NEG_Y to 264.5/-4.8	NEG_Y to 264.5/-4.8
CDA 125OT_RATE010007_RIDER	2010-029T22:16:00		006T00:02:00	2010-035T22:18:00	524	271.704	Non-SPASS			
MIMI 125SA_MAGBOUND005_RIDER	2010-029T22:16:00		000T09:00:00	2010-030T07:16:00	1200	38.88	SPASS Rider			
SP 125EA_M70METNON029_PRIME	2010-029T22:16:00		000T09:00:00	2010-030T07:16:00	0	0	Prime	XBAND to Earth	NEG_Y to 264.5/-4.8	
SP 125NA_M70METNON029_SP	2010-029T22:16:00		000T09:00:00	2010-030T07:16:00	0	0	Non-SPASS			
UVIS 125SW_IPHSURVEY010_RIDER	2010-029T22:16:00		000T09:00:00	2010-030T07:16:00	152.5	4.94	Non-SPASS			
CIRS 125IC_DSCAL10029_SP	2010-029T23:16:00		000T08:00:00	2010-030T07:16:00	3000	86.4	SPASS Rider			
CAPS 125IC_ELSCAL001_PRIME	2010-030T00:00:00		000T00:34:00	2010-030T00:34:00	15000	30.6	Non-SPASS			
MAG 125SU_MAGBOUND007_MAPS	2010-030T04:32:00		000T17:29:00	2010-030T22:01:00	0	0	Non-SPASS			
CAPS 125SA_MAGBOUND003_PRIME	2010-030T07:16:00		000T23:45:00	2010-031T07:01:00	8000	684	SPASS Rider			
MIMI 125SA_MAGBOUND006_RIDER	2010-030T07:16:00		000T23:45:00	2010-031T07:01:00	1800	153.9	SPASS Rider			
SP 125NA_M70BSNON030_NA	2010-030T07:16:00		000T14:45:00	2010-030T22:01:00	0	0	Non-SPASS			
SP 125SA_WAYPTURN030_PRIME	2010-030T07:16:00		000T00:40:00	2010-030T07:56:00	0	0	New Waypoint	NEG_Y to Titan	NEG_X to Sun	
CIRS 125TI_CLOUD001_ISS	2010-030T07:56:00		000T04:04:00	2010-030T12:00:00	4000	58.56	SPASS Rider			
ISS 125TI_CLOUD001_PRIME	2010-030T07:56:00		000T04:04:00	2010-030T12:00:00	0	400	Prime	ISS_NAC to Titan	NEG_X to Sun	Secondary orientation: NEK preferred, but flexible
VIMS 125TI_CLOUDMAP001_ISS	2010-030T07:56:00		000T04:04:00	2010-030T12:00:00	2459	36	SPASS Rider			
CAPS 125SA_MAGBNPTG004_PRIME	2010-030T12:00:00		000T02:00:00	2010-030T14:00:00	0	0	Prime	POS_X to Titan	NEG_Z to NSP	
VIMS 125TI_CLOUDMAP001_CAPS	2010-030T12:00:00		000T02:00:00	2010-030T14:00:00	694.4	5	SPASS Rider			
CIRS 125TI_CLOUD002_ISS	2010-030T14:00:00		000T07:21:00	2010-030T21:21:00	4000	105.84	SPASS Rider			
ISS 125TI_CLOUD002_PRIME	2010-030T14:00:00		000T07:21:00	2010-030T21:21:00	0	400	Prime	ISS_NAC to Titan	NEG_X to Sun	Secondary orientation: NEK preferred, but flexible
VIMS 125TI_CLOUDMAP002_ISS	2010-030T14:00:00		000T07:21:00	2010-030T21:21:00	1171.6	31	SPASS Rider			
SP 125EA_DLTRN030_PRIME	2010-030T21:21:00		000T00:40:00	2010-030T22:01:00	0	0	Prime	XBAND to Earth	POS_X to Dust_RAM	POS_X to NEP
MAG 125SU_MAGBOUND008_MAPS	2010-030T22:01:00		000T09:00:00	2010-031T07:01:00	0	0	Non-SPASS			
SP 125EA_M70METNON030_PRIME	2010-030T22:01:00		000T09:00:00	2010-031T07:01:00	0	0	Prime	XBAND to Earth	Rolling/SRU	
SP 125NA_M70METNON030_SP	2010-030T22:01:00		000T09:00:00	2010-031T07:01:00	0	0	Non-SPASS			
UVIS 125SW_IPHSURVEY011_RIDER	2010-030T22:01:00		000T09:00:00	2010-031T07:01:00	152.5	4.94	Non-SPASS			
CIRS 125IC_DSCAL10030_SP	2010-030T23:01:00		000T08:00:00	2010-031T07:01:00	3000	86.4	SPASS Rider			
RPWS 125CO_HIRATE006_CAPS	2010-030T23:01:00		000T07:00:00	2010-031T06:01:00	58490.9	1473.97	Non-SPASS			

T66 Wrapup SPASS

Request	Riders	Start (SCET)	Start (Epoch)	Duration	End (SCET)	Primary	Secondary	Comments
Sequence S57, length = 37 days		2010-023T15:00:00		037T04:04:00	2010-060T19:04:00			
Titan Flyby T66 Segment		2010-028T07:16:00		002T23:45:00	2010-031T07:01:00			
SP_125TI_WAYPTTURN028_PRIME	M	2010-028T07:16:00		000T00:40:00	2010-028T07:56:00	NEG_Y to Titan	NEG_X to Sun	
NEW WAYPOINT		2010-028T07:56:00		002T00:00:00	2010-030T07:56:0	NEG_Y to Titan	NEG_X to Sun	
SP_125SA_DEADTIME028_PRIME	M	2010-028T07:56:00		000T00:11:18	2010-028T08:07:1	NEG_Y to Titan	NEG_X to Sun	
CIRS_125TI_FIRNADCMP001_PRIME	C, I, M, V	2010-028T08:07:18	GMB_E125_Titan66-000T14:21:31	000T04:21:31	2010-028T12:28:49	CIRS_FP1 to Titar PIC		
ISS_125TI_PHOTOMWAC001_PRIME	C, M, V	2010-028T12:28:49	GMB_E125_Titan66-000T10:00:00	000T01:00:00	2010-028T13:28:49	ISS_NAC to Titan	NEG_X to Sun	
UVIS_125TI_EUVFUV001_PRIME	C, I, M, V	2010-028T13:28:49	GMB_E125_Titan66-000T09:00:00	000T06:30:00	2010-028T19:58:49	UVIS_FUV to Titan	NEG_X to Sun	
Begin Custom Period		2010-028T19:58:49	GMB_E125_Titan66-000T02:30:0	000T00:00:01	2010-028T19:58:5	NEG_Y to Titan	NEG_X to Sun	
CIRS_125TI_FIRLMBINT001_PRIME	C, I, M, U,	2010-028T19:58:49	GMB_E125_Titan66-000T02:30:00	000T01:08:00	2010-028T21:06:49	CIRS_FP1 to Titar PIC		Pick up at NEG_Y to Titan, NEG_X to Sun; Hand off at CIRS_FP1 to Titan, PIC.
CIRS_125TI_FIRLMBAAER001_PRIME	C, I, M, U,	2010-028T21:06:49	GMB_E125_Titan66-000T01:22:00	000T00:33:30	2010-028T21:40:19	CIRS_FP1 to Titar PIC		Pick up at CIRS_FP1 to Titan, PIC; Hand off at CIRS_FP1 to Titan, PIC.
CIRS_125TI_FIRLMBT001_PRIME	C, I, M, U,	2010-028T21:40:19	GMB_E125_Titan66-000T00:48:30	000T00:33:30	2010-028T22:13:49	CIRS_FP1 to Titar PIC		Pick up at CIRS_FP1 to Titan, PIC; Hand off at NEG_Y to Titan, NEG_Z to Sun.
ISS_125TI_VHIGHRES001_PRIME	C, M, V	2010-028T22:13:49	GMB_E125_Titan66-000T00:15:00	000T02:15:00	2010-029T00:28:49	ISS_NAC to Titan	NEG_X to Sun	Pick up at NEG_Y to Titan, NEG_Z to Sun; Hand off at NEG_Y to Titan, NEG_X to Sun.
125TI (t) T66 TITAN Outbo...		2010-028T22:28:49		000T00:00:01	2010-028T22:28:50			
End Custom Period		2010-029T00:28:49	GMB_E125_Titan66+000T02:00:00	000T00:00:01	2010-029T00:28:5	NEG_Y to Titan	NEG_X to Probe	
UVIS_125TI_EUVFUV003_PRIME	C, I, M, V	2010-029T00:28:49	GMB_E125_Titan66+000T02:00:00	000T07:00:00	2010-029T07:28:49	UVIS_FUV to Titan	NEG_X to Sun	
CIRS_125TI_FIRNADCMP002_PRIME	C, I, M, V	2010-029T07:28:49	GMB_E125_Titan66+000T09:00:00	000T05:00:00	2010-029T12:28:49	CIRS_FP1 to Titar PIC		
VIMS_125TI_GLOBMAP001_PRIME	C, I, M	2010-029T12:28:49	GMB_E125_Titan66+000T14:00:00	000T09:00:00	2010-029T21:28:49	VIMS_IR to Titan	NEG_X to Sun	
SP_125NA_DEADTIME029_PRIME	M	2010-029T12:28:49	GMB_E125_Titan66+000T23:00:00	000T00:07:11	2010-029T21:36:0	NEG_Y to Titan	NEG_X to Sun	
SP_125SA_DLTURN029_PRIME	M	2010-029T21:36:00		000T00:40:00	2010-029T22:16:00	XBAND to Earth	NEG_Y to 264.5/-4.1	NEG_Y to 264.5/-4.8
SP_125EA_M70METNON029_PRIME	C, M	2010-029T22:16:00		000T09:00:00	2010-030T07:16:00	XBAND to Earth	NEG_Y to 264.5/-4.8	
SP_125SA_WAYPTTURN030_PRIME	M	2010-030T07:16:00		000T00:40:00	2010-030T07:56:00	NEG_Y to Titan	NEG_X to Sun	
NEW WAYPOINT		2010-030T07:56:00		000T23:05:00	2010-031T07:01:0	NEG_Y to Titan	NEG_X to Sun	
ISS_125TI_CLOUD001_PRIME	C, M, V	2010-030T07:56:00		000T04:04:00	2010-030T12:00:00	ISS_NAC to Titan	NEG_X to Sun	Secondary orientation: NEG_X to Sun preferred, but flexible
CAPS_125SA_MAGBNDDPTG004_PRIME	M	2010-030T12:00:00		000T02:00:00	2010-030T14:00:00	POS_X to Titan	NEG_Z to NSP	
ISS_125TI_CLOUD002_PRIME	C, M, V	2010-030T14:00:00		000T07:21:00	2010-030T21:21:00	ISS_NAC to Titan	NEG_X to Sun	Secondary orientation: NEG_X to Sun preferred, but flexible
SP_125EA_DLTURN030_PRIME	M	2010-030T21:21:00		000T00:40:00	2010-030T22:01:00	XBAND to Earth	POS_X to Dust_RAM	POS_X to NEP
SP_125EA_M70METNON030_PRIME	C, M	2010-030T22:01:00		000T09:00:00	2010-031T07:01:00	XBAND to Earth	Rolling/SRU	

T66 Wrapup Open Issues

None!

Thanks to the CIRS team for doing the PDT work that allowed us to capture an occultation opportunity for VIMS!