

# **TOST: RE-Delivery**

## **062TI (T42)**

Segment: 2008-085T01:35:00 – 2008-087T01:20:00

Titan C/A: 2008-085T14:27:48, Altitude = 1000 km

Epoch: GMB\_E062\_Titan42

Sept 21, 2007

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## High-Level Science Objectives

- INMS – Determination of ionosphere and atmosphere composition and thermal structure near noon local time, from approximately  $-30^{\circ}$  latitude to the equator. Just prior to closest approach.
- VIMS – Small phase angle, high resolution imaging of the probe landing site, just past closest approach. Other observations include a cloud map, a regional map, and a global map.
- CIRS — CIRS spends 8 hours looking at several positions on Titan’s limb, measuring stratospheric temperatures around 1/4 of the visible disk, and also searching for new trace species. We also obtain thermal maps in the far-IR and sub-mm of tropospheric temperature variation across the disk. Additionally, CIRS will be riding along with ISS imagery of the landing site.
- ISS – Very high-res (24-85 m/pixel) imaging of the predicted Huygens landing site (ride-along with VIMS). High-resolution (120-245 m/pixel) imaging of the bright-dark boundary around 27 N, 230 W. Regional-scale (254-500 m/pixel) mapping of the dark region around 29 N, 234 W. Full-disk, color mosaic (centered at 30 N, 244 W) at 1.4-1.7 km/pixel. Monitor for surface and atmospheric changes, attempt to see surface color variations, and monitor limb hazes.



# TOL for 062TI (T42)

062TI (T42)

Start Time	End Time	Prime Activity	Obs. Detail	Op Mode	TLM Mode	Comments
085T01:35	085T02:05	SP Turn to waypoint		DFPW Normal	S_N_ER_3	-Y LAT_VIEW (-55, 90, HRS, 0) +Z FOV_LIMB (-55, RHS)
085T02:05	085T02:20	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
-12:15	-09:00	VIMS	Cloud Map	DFPW Normal	S_N_ER_3	Template O (modified)
-09:00	-05:00	CIRS	Mid-IR Limb	DFPW Normal	S_N_ER_3	Template R
-05:00	-02:00	CIRS	Nadir	DFPW Normal	S_N_ER_3	Template T
-02:00	-01:59	RWA to RCS Transition		ORS/RCS	S_N_ER_3	Deadband (.5, 2, .5)
-01:59	-00:21	CIRS	Limb	ORS/RCS	S_N_ER_3	
-00:21	-00:15	SP turn to WP				-X RAM, -Y Titan
-00:15	+00:15	INMS		ORS/RCS	S_N_ER_2	-Y to Titan 2nd axis for ORS
+00:15	+00:27	SP turn to WP			S_N_ER_3	-Y Titan, -X SUN (0,30,0)
+00:27	+00:46	VIMS	Landing site	ORS/RCS	S_N_ER_3	
+00:46	+01:08	RCS to RWA Transition		DFPW Normal	S_N_ER_3	
+01:08	+02:00	VIMS		DFPW Normal	S_N_ER_3	
+02:00	+04:00	ISS	Reg Map	DFPW Normal	S_N_ER_3	Template J
+04:00	+05:00	CIRS		DFPW Normal	S_N_ER_3	Template J
+05:00	+09:00	CIRS	Limb Map	DFPW Normal	S_N_ER_3	Template F
+09:00	+11:00	CIRS	FP1	DFPW Normal	S_N_ER_3	Template D
+11:00	+13:00	ISS	Mosaic	DFPW Normal	S_N_ER_3	Template D
+13:00	+14:00	VIMS	Reg Map	DFPW Normal	S_N_ER_3	Template D
+14:00	+1T00:59	VIMS	Global Map	DFPW Normal	S_N_ER_3	Template B (modified)
+1T00:59	086T15:50	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
086T15:50	086T16:20	SP Turn to downlink		DFPW Normal	S_N_ER_3	
086T16:20	087T01:20	Downlink over Goldstone		DFPW Normal	RTE_N_SPB	

**Modified from original integration timeline due to shortening of RWA/RCS Transition times**



# CIMS TOL for 062TI (T42)

062TI (T42)

Request	Duration	End Time	Rate	Data Volume	SPASS Type	Primary Pointing	Secondary Pointing
MP 058NA DSS54DOWN001 NA	097T23:59:59	2008-132T23:59:59	0	0	Non-SPASS		
MP 059NA DSS15DOWN001 NA	083T23:59:59	2008-132T23:59:59	0	0	Non-SPASS		
MP 062NA SEQUENCE039 NA	027T05:28:00	2008-110T07:18:00	0	0	SPASS Note		
CAPS 062SA SURVEY003 RIDER	001T16:07:48	2008-085T12:27:48	1000	144.468	Non-SPASS		
INMS 062SA SURVEY004 RIDER	000T12:00:08	2008-085T02:35:08	50	2.16	Non-SPASS		
CDA 062DR 1607SUOUT006 RIDER	000T02:01:58	2008-085T02:06:34	300	2.195	Non-SPASS		
ENGR 062SC DFPW085 PPS	000T00:00:30	2008-085T01:35:30	0	0	Non-SPASS		
MAG 062OT SURVEY001 PRIME	000T09:23:07	2008-085T10:58:07	600	20.272	Non-SPASS		
MIMI 062CO SURVEY008 RIDER	000T10:52:48	2008-085T12:27:48	1150	45.043	Non-SPASS		
RPWS 062SA OUTSURVEY004 PRIME	000T10:52:48	2008-085T12:27:48	1310	51.311	Non-SPASS		
SP 062NA M700BSNON086 NA	001T14:45:00	2008-086T16:20:00	0	0	Non-SPASS		
SP 062NA TOSTSEG085 NA	001T23:45:00	2008-087T01:20:00	0	0	SPASS Note		
SP 062TI WAYPTTURN085 PRIME	000T00:30:00	2008-085T02:05:00	0	0	New Waypoint	NEG Y to Titan	POS Z to 231.0/-10.0
SP 062TI DEADTIME085 PRIME	000T00:07:48	2008-085T02:12:48	0	0	Prime	ISS_NAC to Titan	NEG X to Sun
CDA 062DR 1707DUST522 RIDER	002T23:21:26	2008-088T01:28:00	300	77.063	Non-SPASS		
CIRS 062TI CLOUDMAP001 VIMS	000T03:15:00	2008-085T05:27:48	4000	46.8	SPASS Rider		
ISS 062TI CLOUDMAP001 VIMS	000T03:15:00	2008-085T05:27:48	0	20	SPASS Rider		
UVIS 062TI CLOUDMAP001 VIMS	000T03:15:00	2008-085T05:27:48	1006.4	11.775	SPASS Rider		
VIMS 062TI CLOUDMAP001 PRIME	000T03:15:00	2008-085T05:27:48	8461.5	99	Prime	ISS_NAC to Titan	POS Z to 231.0/-10.0
INMS 062TI T42INBD001 RIDER	000T10:52:40	2008-085T13:27:48	100	3.916	Non-SPASS		
CIRS 062TI MIRLMBINT001 PRIME	000T04:00:00	2008-085T09:27:48	4000	57.6	Prime	CIRS_FP1 to Titan	PIC
CIRS 062TI MIRLMBINT001 SI	000T04:00:00	2008-085T09:27:48	0	4	SPASS Rider		
ISS 062TI MIRLMBINT001 CIRS	000T04:00:00	2008-085T09:27:48	0	10	SPASS Rider		
UVIS 062TI MIRLMBINT001 CIRS	000T04:00:00	2008-085T09:27:48	2516	36.23	SPASS Rider		
VIMS 062TI MIRLMBINT001 CIRS	000T04:00:00	2008-085T09:27:48	4375	63	SPASS Rider		
CIRS 062TI FIRNADMAP001 PRIME	000T03:00:00	2008-085T12:27:48	2000	21.6	Prime	CIRS_FP1 to Titan	POS X to North Pole Dir
CIRS 062TI FIRNADMAP001 SI	000T03:00:00	2008-085T12:27:48	0	3	SPASS Rider		
ISS 062TI FIRNADMAP001 CIRS	000T03:00:00	2008-085T12:27:48	0	10	SPASS Rider		
VIMS 062TI LIMB001 CIRS	000T03:00:00	2008-085T12:27:48	4166.7	45	SPASS Rider		
MAG 062TI MAGTITAN001 PRIME	000T06:59:22	2008-085T17:57:29	1976	49.72	Non-SPASS		
ENGR 062SC AACSDUAL001 CDS	000T03:10:05	2008-085T15:34:53	1638	18.681	Non-SPASS		
CAPS 062TI T42INBD001 PRIME	000T01:00:00	2008-085T13:27:48	4000	14.4	SPASS Rider		
ENGR 062SC ORSRCS085 PPS	000T00:20:51	2008-085T12:48:39	0	0	Non-SPASS		
ENGR 062SC ORSRCS085 PRIME	000T00:01:00	2008-085T12:28:48	0	0	Prime	CIRS_FP1 to Titan	PIC
MIMI 062TI T42INBD001 CAPS	000T01:00:00	2008-085T13:27:48	2000	7.2	SPASS Rider		
RPWS 062TI TIINTRMED001 PRIME	000T01:30:00	2008-085T13:57:48	3500	18.9	Non-SPASS		
CIRS 062TI FIRLMBINT003 PRIME	000T00:44:00	2008-085T13:12:48	4000	10.56	Prime	CIRS_FP1 to Titan	PIC
ISS 062TI FIRLMBINT001 CIRS	000T00:46:00	2008-085T13:37:48	0	5	SPASS Rider		
VIMS 062TI LIMB003 CIRS	000T01:15:00	2008-085T14:06:48	8000	36	SPASS Rider		
CIRS 062TI FIRLMBINT001 PRIME	000T00:25:00	2008-085T13:37:48	4000	6	Prime	CIRS_FP1 to Titan	PIC
CIRS 062TI FIRLMBINT001 SI	000T00:25:00	2008-085T13:37:48	0	1	SPASS Rider		
CAPS 062TI T42CLOSE001 PRIME	000T02:00:00	2008-085T15:27:48	16000	115.2	SPASS Rider		
INMS 062TI T42RMPNT001 INMS	000T00:45:00	2008-085T14:12:48	1498	4.045	Non-SPASS		
MIMI 062TI T42CLOSE001 CAPS	000T02:00:00	2008-085T15:27:48	1800	12.96	SPASS Rider		
CIRS 062TI FIRLMBT001 PRIME	000T00:29:00	2008-085T14:06:48	4000	6.96	Prime	CIRS_FP1 to Titan	PIC
CIRS 062TI FIRLMBT001 SI	000T00:29:00	2008-085T14:06:48	0	1	SPASS Rider		
ISS 062TI FIRLMBT001 CIRS	000T00:29:00	2008-085T14:06:48	0	5	SPASS Rider		
RPWS 062TI TICA001 PRIME	000T00:19:00	2008-085T14:10:48	60927.4	69.457	Non-SPASS		
SP 062TI WAYPTTURN485 PRIME	000T00:06:00	2008-085T14:12:48	0	0	New Waypoint	NEG X to Titan_SC_RAM	NEG Y to Titan
RPWS 062TI TICA002 PRIME	000T00:32:00	2008-085T14:42:48	100001.1	192.002	Non-SPASS		
CIRS 062IC T42RMPNT001 INMS	000T00:30:00	2008-085T14:42:48	4000	7.2	SPASS Rider		
INMS 062TI T42RMPNT001 PRIME	000T00:30:00	2008-085T14:42:48	1498	2.696	Prime	NEG X to Titan_SC_RAM	NEG Y to Titan
MP 062TI FLYBYT042 NA	000T00:00:01	2008-085T14:27:32	0	0	Non-SPASS		
INMS 062TI T42RMPNT002 INMS	000T00:45:00	2008-085T15:27:48	1498	4.045	Non-SPASS		
RPWS 062TI TICA003 PRIME	000T00:20:00	2008-085T15:02:48	60927.4	73.113	Non-SPASS		
SP 062TI WAYPTTURN585 PRIME	000T00:12:00	2008-085T14:54:48	0	0	New Waypoint	NEG Y to Titan (0.0,30.0,0.0 deg. offset)	NEG X to Sun



# CIMS TOL for 062TI (T42) (con't)

062TI (T42)

SP 062NA BEGHIVAL085 NA	000T00:00:01	2008-085T14:49:49	0	0	SPASS Note		
RPWS 062TI TIINTRMED002 PRIME	000T01:35:00	2008-085T16:27:48	3500	19.95	Non-SPASS		
CIRS 062TI HIRES001 VIMS	000T00:19:00	2008-085T15:13:48	4000	4.56	SPASS Rider		
ISS 062TI HIRES001 VIMS	000T00:19:00	2008-085T15:13:48	0	50	SPASS Rider		
VIMS 062TI HIRES001 PRIME	000T00:19:00	2008-085T15:13:48	39473.7	45	Prime	ISS_NAC to Titan	NEG X to Sun
MP 062SA RPXASCEND062 NA	000T00:00:01	2008-085T15:09:25	0	0	Non-SPASS		
CIRS 062TI TRANS003 RIDER	000T00:22:00	2008-085T15:35:48	4000	5.28	SPASS Rider		
ENGR 062SC DFPWBIA085 PPS	000T00:21:05	2008-085T15:34:53	0	0	Prime	ISS_NAC to Titan	NEG X to Sun
SP 062NA ENDHIVAL085 NA	000T00:00:01	2008-085T15:13:49	0	0	SPASS Note		
VIMS 062TI TRANS003 ENGR	000T00:22:00	2008-085T15:35:48	12500	16.5	SPASS Rider		
CAPS 062TI T42OUTBND001 PRIME	000T01:00:00	2008-085T16:27:48	4000	14.4	SPASS Rider		
INMS 062TI T42OUTBD001 RIDER	000T11:00:00	2008-086T02:27:48	100	3.96	Non-SPASS		
MIMI 062TI T42OUTBND001 CAPS	000T01:00:00	2008-085T16:27:48	2000	7.2	SPASS Rider		
CIRS 062TI HIRESNAC001 VIMS	000T00:52:00	2008-085T16:27:48	4000	12.48	SPASS Rider		
ISS 062TI HIRESNAC001 VIMS	000T00:51:00	2008-085T16:26:48	0	90	SPASS Rider		
VIMS 062TI HIRESNAC001 PRIME	000T00:52:00	2008-085T16:27:48	11538.5	36	Prime	VIMS_IR to Titan (0.0,30.0,0.0 deg. offset)	NEG X to Sun
CAPS 062SA SURVEY004 RIDER	002T09:08:38	2008-088T01:36:26	1000	205.718	Non-SPASS		
CIRS 062TI REGMAP001 ISS	000T02:00:00	2008-085T18:27:48	4000	28.8	SPASS Rider		
ISS 062TI REGMAP001 PRIME	000T02:00:00	2008-085T18:27:48	0	348	Prime	ISS_NAC to Titan (0.0,30.0,0.0 deg. offset)	NEG X to Sun
MIMI 062CO SURVEY007 RIDER	000T21:58:48	2008-086T14:26:36	1000	79.128	Non-SPASS		
RPWS 062SA_OUTSURVEY005 PRIME	001T08:44:52	2008-087T01:12:40	1310	154.44	Non-SPASS		
VIMS 062TI REGMAP001 ISS	000T02:00:00	2008-085T18:27:48	11111.1	80	SPASS Rider		
MAG 062OT SURVEY004 PRIME	001T07:22:31	2008-087T01:20:00	600	67.771	Non-SPASS		
CIRS 062TI FIRNADMAP002 PRIME	000T01:00:00	2008-085T19:27:48	2000	7.2	Prime	CIRS_FP1 to Titan	POS X to North_Pole_Dir
CIRS 062TI FIRNADMAP002 SI	000T01:00:00	2008-085T19:27:48	0	1	SPASS Rider		
ISS 062TI FIRNADMAP002 CIRS	000T01:00:00	2008-085T19:27:48	0	10	SPASS Rider		
VIMS 062TI FIRNADCMP001 CIRS	000T01:00:00	2008-085T19:27:48	8333.3	30	SPASS Rider		
CIRS 062TI MIRLMBMAP002 PRIME	000T04:00:00	2008-085T23:27:48	4000	57.6	Prime	CIRS_FPB to Titan	PIC
CIRS 062TI MIRLMBMAP002 SI	000T04:00:00	2008-085T23:27:48	0	4	SPASS Rider		
ISS 062TI MIRLMBMAP002 CIRS	000T04:00:00	2008-085T23:27:48	0	10	SPASS Rider		
UVIS 062TI MIRLMBMAP002 CIRS	000T04:00:00	2008-085T23:27:48	5032	72.461	SPASS Rider		
VIMS 062TI LIMB002 CIRS	000T04:00:00	2008-085T23:27:48	8125	117	SPASS Rider		
CIRS 062TI FIRNADCMP002 PRIME	000T02:00:00	2008-086T01:27:48	4000	28.8	Prime	CIRS_FP1 to Titan	PIC
CIRS 062TI FIRNADCMP002 SI	000T02:00:00	2008-086T01:27:48	0	4	SPASS Rider		
ISS 062TI FIRNADCMP002 CIRS	000T02:00:00	2008-086T01:27:48	0	10	SPASS Rider		
VIMS 062TI FIRNADCMP002 CIRS	000T02:00:00	2008-086T01:27:48	5000	36	SPASS Rider		
CIRS 062TI MONITORNA001 ISS	000T02:00:00	2008-086T03:27:48	4000	28.8	SPASS Rider		
ISS 062TI MONITORNA001 PRIME	000T02:00:00	2008-086T03:27:48	0	300	Prime	ISS_NAC to Titan (0.0,30.0,0.0 deg. offset)	NEG X to Sun
VIMS 062TI MOSAIC001 ISS	000T02:00:00	2008-086T03:27:48	9722.2	70	SPASS Rider		
INMS 062SA SURVEY005 RIDER	000T11:59:52	2008-086T14:27:40	50	2.16	Non-SPASS		
CIRS 062TI GLOBMAP002 VIMS	000T01:00:00	2008-086T04:27:48	4000	14.4	SPASS Rider		
ISS 062TI GLOBMAP002 VIMS	000T01:00:00	2008-086T04:27:48	0	20	SPASS Rider		
VIMS 062TI GLOBMAP002 PRIME	000T01:00:00	2008-086T04:27:48	10000	36	Prime	ISS_NAC to Titan (0.0,30.0,0.0 deg. offset)	NEG X to Sun
CIRS 062TI GLOBMAPFA001 VIMS	000T10:59:00	2008-086T15:26:48	2000	79.08	SPASS Rider		
ISS 062TI GLOBMAPFA001 VIMS	000T10:59:00	2008-086T15:26:48	0	20	SPASS Rider		
VIMS 062TI GLOBMAPFA001 PRIME	000T11:07:00	2008-086T15:34:48	2473.8	99	Prime	ISS_NAC to Titan (0.0,30.0,0.0 deg. offset)	NEG X to Sun
ENGR 062SC RSSKRWAF086 PPS	000T00:05:04	2008-086T14:04:29	0	0	Non-SPASS		
RSS 062SA OCCORT002 RSS	000T11:05:00	2008-087T01:20:00	0	0	SPASS Rider		
INMS 062SA SURVEY006 RIDER	001T11:01:26	2008-088T01:36:26	50	6.304	Non-SPASS		
MIMI 062SA MAGDYN002 PRIME	001T11:02:31	2008-088T01:37:32	1200	151.381	SPASS Rider		
SP 062TI DEADTIME086 PRIME	000T00:15:12	2008-086T15:50:00	0	0	Prime	NEG_Y to Titan (0.0,30.0,0.0 deg. offset)	NEG X to Sun
SP 062EA DLTURN086 PRIME	000T00:30:00	2008-086T16:20:00	0	0	Prime	XBAND to Earth	NEG X to Sun
ENGR 062SC AACSDUAL002 CDS	000T00:00:02	2008-086T16:19:49	0	0	Non-SPASS		
SP 062EA M70METNON086 PRIME	000T09:00:00	2008-087T01:20:00	0	0	Prime	XBAND to Earth	NEG X to Sun
SP 062NA M34BWGNON086 SP	000T09:00:00	2008-087T01:20:00	0	0	Non-SPASS		
SP 062NA M70METNON086 SP	000T09:00:00	2008-087T01:20:00	0	0	Non-SPASS		
UVIS 062SW IPHSURVEY003 RIDER	000T09:00:00	2008-087T01:20:00	76	2.462	Non-SPASS		
CIRS 062IC DSCAL1707 RIDER	000T06:00:00	2008-086T23:05:00	4000	86.4	SPASS Rider		



# 062TI (T42) CIMS TOL Sorted by Team

062TI (T42)

Request	Duration	End Time	Rate	Data Volume	SPASS Type	Primary Pointing	Secondary Pointing
CAPS 062SA SURVEY003 RIDER	001T16:07:48	2008-085T12:27:48	1000	144.468	Non-SPASS		
CAPS 062SA SURVEY004 RIDER	002T09:08:38	2008-088T01:36:26	1000	205.718	Non-SPASS		
CAPS 062TI T42CLOSE001 PRIME	000T02:00:00	2008-085T15:27:48	16000	115.2	SPASS Rider		
CAPS 062TI T42INBND001 PRIME	000T01:00:00	2008-085T13:27:48	4000	14.4	SPASS Rider		
CAPS 062TI T42OUTBND001 PRIME	000T01:00:00	2008-085T16:27:48	4000	14.4	SPASS Rider		
CDA 062DR 1607SUOUT006 RIDER	000T02:01:58	2008-085T02:06:34	300	2.195	Non-SPASS		
CDA 062DR 1707DUST522 RIDER	002T23:21:26	2008-088T01:28:00	300	77.063	Non-SPASS		
CIRS 062IC DSCAL1707 RIDER	000T06:00:00	2008-086T23:05:00	4000	86.4	SPASS Rider		
CIRS 062IC T42RMPNT001 INMS	000T00:30:00	2008-085T14:42:48	4000	7.2	SPASS Rider		
CIRS 062TI CLOUDMAP001 VIMS	000T03:15:00	2008-085T05:27:48	4000	46.8	SPASS Rider		
CIRS 062TI FIRLMBEAER001 PRIME	000T00:25:00	2008-085T13:37:48	4000	6	Prime	CIRS_FP1 to Titan	PIC
CIRS 062TI FIRLMBEAER001 SI	000T00:25:00	2008-085T13:37:48	0	1	SPASS Rider		
CIRS 062TI FIRLMBINT003 PRIME	000T00:44:00	2008-085T13:12:48	4000	10.56	Prime	CIRS_FP1 to Titan	PIC
CIRS 062TI FIRLMBT001 PRIME	000T00:29:00	2008-085T14:06:48	4000	6.96	Prime	CIRS_FP1 to Titan	PIC
CIRS 062TI FIRLMBT001 SI	000T00:29:00	2008-085T14:06:48	0	1	SPASS Rider		
CIRS 062TI FIRNADCMP002 PRIME	000T02:00:00	2008-086T01:27:48	4000	28.8	Prime	CIRS_FP1 to Titan	PIC
CIRS 062TI FIRNADCMP002 SI	000T02:00:00	2008-086T01:27:48	0	4	SPASS Rider		
CIRS 062TI FIRNADMAP001 PRIME	000T03:00:00	2008-085T12:27:48	2000	21.6	Prime	CIRS_FP1 to Titan	POS_X to North_Pole_Dir
CIRS 062TI FIRNADMAP001 SI	000T03:00:00	2008-085T12:27:48	0	3	SPASS Rider		
CIRS 062TI FIRNADMAP002 PRIME	000T01:00:00	2008-085T19:27:48	2000	7.2	Prime	CIRS_FP1 to Titan	POS_X to North_Pole_Dir
CIRS 062TI FIRNADMAP002 SI	000T01:00:00	2008-085T19:27:48	0	1	SPASS Rider		
CIRS 062TI GLOBMAP002 VIMS	000T01:00:00	2008-086T04:27:48	4000	14.4	SPASS Rider		
CIRS 062TI GLOBMAPFA001 VIMS	000T10:59:00	2008-086T15:26:48	2000	79.08	SPASS Rider		
CIRS 062TI HIRES001 VIMS	000T00:19:00	2008-085T15:13:48	4000	4.56	SPASS Rider		
CIRS 062TI HIRESNAC001 VIMS	000T00:52:00	2008-085T16:27:48	4000	12.48	SPASS Rider		
CIRS 062TI MIRLMBINT001 PRIME	000T04:00:00	2008-085T09:27:48	4000	57.6	Prime	CIRS_FPB to Titan	PIC
CIRS 062TI MIRLMBINT001 SI	000T04:00:00	2008-085T09:27:48	0	4	SPASS Rider		
CIRS 062TI MIRLMBMAP002 PRIME	000T04:00:00	2008-085T23:27:48	4000	57.6	Prime	CIRS_FPB to Titan	PIC
CIRS 062TI MIRLMBMAP002 SI	000T04:00:00	2008-085T23:27:48	0	4	SPASS Rider		
CIRS 062TI MONITORNA001 ISS	000T02:00:00	2008-086T03:27:48	4000	28.8	SPASS Rider		
CIRS 062TI REGMAP001 ISS	000T02:00:00	2008-085T18:27:48	4000	28.8	SPASS Rider		
CIRS 062TI TRANS003 RIDER	000T00:22:00	2008-085T15:35:48	4000	5.28	SPASS Rider		
ENGR 062SC AACSDUAL001_CDS	000T03:10:05	2008-085T15:34:53	1638	18.681	Non-SPASS		
ENGR 062SC AACSDUAL002_CDS	000T00:00:02	2008-086T16:19:49	0	0	Non-SPASS		
ENGR 062SC DFPW085 PPS	000T00:00:30	2008-085T01:35:30	0	0	Non-SPASS		
ENGR 062SC DFPWBIAS085 PPS	000T00:21:05	2008-085T15:34:53	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun
ENGR 062SC ORSRCS085 PPS	000T00:20:51	2008-085T12:48:39	0	0	Non-SPASS		
ENGR 062SC ORSRCS085 PRIME	000T00:01:00	2008-085T12:28:48	0	0	Prime	CIRS_FP1 to Titan	PIC
ENGR 062SC RSSKRWAF086 PPS	000T00:05:04	2008-086T14:04:29	0	0	Non-SPASS		
INMS 062SA SURVEY004 RIDER	000T12:00:08	2008-085T02:35:08	50	2.16	Non-SPASS		
INMS 062SA SURVEY005 RIDER	000T11:59:52	2008-086T14:27:40	50	2.16	Non-SPASS		
INMS 062SA SURVEY006 RIDER	001T11:01:26	2008-088T01:36:26	50	6.304	Non-SPASS		
INMS 062TI T42INBND001 RIDER	000T10:52:40	2008-085T13:27:48	100	3.916	Non-SPASS		
INMS 062TI T42OUTBD001 RIDER	000T11:00:00	2008-086T02:27:48	100	3.96	Non-SPASS		
INMS 062TI T42RMPNT001 INMS	000T00:45:00	2008-085T14:12:48	1498	4.045	Non-SPASS		
INMS 062TI T42RMPNT001 PRIME	000T00:30:00	2008-085T14:42:48	1498	2.696	Prime	NEG_X to Titan_SC_RAM	NEG_Y to Titan
INMS 062TI T42RMPNT002 INMS	000T00:45:00	2008-085T15:27:48	1498	4.045	Non-SPASS		
ISS 062TI CLOUDMAP001 VIMS	000T03:15:00	2008-085T05:27:48	0	20	SPASS Rider		
ISS 062TI FIRLMBEAER001_CIRS	000T00:46:00	2008-085T13:37:48	0	5	SPASS Rider		
ISS 062TI FIRLMBT001_CIRS	000T00:29:00	2008-085T14:06:48	0	5	SPASS Rider		
ISS 062TI FIRNADCMP002_CIRS	000T02:00:00	2008-086T01:27:48	0	10	SPASS Rider		
ISS 062TI FIRNADMAP001_CIRS	000T03:00:00	2008-085T12:27:48	0	10	SPASS Rider		
ISS 062TI FIRNADMAP002_CIRS	000T01:00:00	2008-085T19:27:48	0	10	SPASS Rider		
ISS 062TI GLOBMAP002 VIMS	000T01:00:00	2008-086T04:27:48	0	20	SPASS Rider		
ISS 062TI GLOBMAPFA001 VIMS	000T10:59:00	2008-086T15:26:48	0	20	SPASS Rider		
ISS 062TI HIRES001 VIMS	000T00:19:00	2008-085T15:13:48	0	50	SPASS Rider		
ISS 062TI HIRESNAC001 VIMS	000T00:51:00	2008-085T16:26:48	0	90	SPASS Rider		
ISS 062TI MIRLMBINT001_CIRS	000T04:00:00	2008-085T09:27:48	0	10	SPASS Rider		
ISS 062TI MIRLMBMAP002_CIRS	000T04:00:00	2008-085T23:27:48	0	10	SPASS Rider		
ISS 062TI MONITORNA001 PRIME	000T02:00:00	2008-086T03:27:48	0	300	Prime	ISS_NAC to Titan (0.0,30.0,0.0 deg. offset)	NEG_X to Sun
ISS 062TI REGMAP001 PRIME	000T02:00:00	2008-085T18:27:48	0	348	Prime	ISS_NAC to Titan (0.0,30.0,0.0 deg. offset)	NEG_X to Sun



# 062TI (T42) CIMS TOL Sorted by Team (con't) 062TI (T42)

MAG 062OT SURVEY001 PRIME	000T09:23:07	2008-085T10:58:07	600	20.272	Non-SPASS		
MAG 062OT SURVEY004 PRIME	001T07:22:31	2008-087T01:20:00	600	67.771	Non-SPASS		
MAG 062TI MAGTITAN001 PRIME	000T06:59:22	2008-085T17:57:29	1976	49.72	Non-SPASS		
MIMI 062CO SURVEY007 RIDER	000T21:58:48	2008-086T14:26:36	1000	79.128	Non-SPASS		
MIMI 062CO SURVEY008 RIDER	000T10:52:48	2008-085T12:27:48	1150	45.043	Non-SPASS		
MIMI 062SA MAGDYN002 PRIME	001T11:02:31	2008-088T01:37:32	1200	151.381	SPASS Rider		
MIMI 062TI T42CLOSE001 CAPS	000T02:00:00	2008-085T15:27:48	1800	12.96	SPASS Rider		
MIMI 062TI T42INBND001 CAPS	000T01:00:00	2008-085T13:27:48	2000	7.2	SPASS Rider		
MIMI 062TI T42OUTBND001 CAPS	000T01:00:00	2008-085T16:27:48	2000	7.2	SPASS Rider		
MP 058NA DSS54DOWN001 NA	097T23:59:59	2008-132T23:59:59	0	0	Non-SPASS		
MP 059NA DSS15DOWN001 NA	083T23:59:59	2008-132T23:59:59	0	0	Non-SPASS		
MP 062NA SEQUENCE039 NA	027T05:28:00	2008-110T07:18:00	0	0	SPASS Note		
MP 062SA RPXASCEND062 NA	000T00:00:01	2008-085T15:09:25	0	0	Non-SPASS		
MP 062TI FLYBYT042 NA	000T00:00:01	2008-085T14:27:32	0	0	Non-SPASS		
RPWS 062SA OUTSURVEY004 PRIME	000T10:52:48	2008-085T12:27:48	1310	51.311	Non-SPASS		
RPWS 062SA OUTSURVEY005 PRIME	001T08:44:52	2008-087T01:12:40	1310	154.44	Non-SPASS		
RPWS 062TI TICA001 PRIME	000T00:19:00	2008-085T14:10:48	60927.4	69.457	Non-SPASS		
RPWS 062TI TICA002 PRIME	000T00:32:00	2008-085T14:42:48	100001.1	192.002	Non-SPASS		
RPWS 062TI TICA003 PRIME	000T00:20:00	2008-085T15:02:48	60927.4	73.113	Non-SPASS		
RPWS 062TI TIINTRMED001 PRIME	000T01:30:00	2008-085T13:57:48	3500	18.9	Non-SPASS		
RPWS 062TI TIINTRMED002 PRIME	000T01:35:00	2008-085T16:27:48	3500	19.95	Non-SPASS		
RSS 062SA OCCORT002_RSS	000T11:05:00	2008-087T01:20:00	0	0	SPASS Rider		
SP 062EA DLTURN086 PRIME	000T00:30:00	2008-086T16:20:00	0	0	Prime	XBAND to Earth	NEG X to Sun
SP 062EA M70METNON086 PRIME	000T09:00:00	2008-087T01:20:00	0	0	Prime	XBAND to Earth	NEG X to Sun
SP 062NA BEGHIVAL085 NA	000T00:00:01	2008-085T14:49:49	0	0	SPASS Note		
SP 062NA ENDHIVAL085 NA	000T00:00:01	2008-085T15:13:49	0	0	SPASS Note		
SP 062NA M34BWGNON086 SP	000T09:00:00	2008-087T01:20:00	0	0	Non-SPASS		
SP 062NA M70METNON086 SP	000T09:00:00	2008-087T01:20:00	0	0	Non-SPASS		
SP 062NA M70OBSNON086 NA	001T14:45:00	2008-086T16:20:00	0	0	Non-SPASS		
SP 062NA TOSTSEG085 NA	001T23:45:00	2008-087T01:20:00	0	0	SPASS Note		
SP 062TI DEADTIME085 PRIME	000T00:07:48	2008-085T02:12:48	0	0	Prime	ISS_NAC to Titan	NEG X to Sun
SP 062TI DEADTIME086 PRIME	000T00:15:12	2008-086T15:50:00	0	0	Prime	NEG Y to Titan (0.0,30.0,0.0 deg. offset)	NEG X to Sun
SP 062TI WAYPTTURN085 PRIME	000T00:30:00	2008-085T02:05:00	0	0	New Waypoint	NEG Y to Titan	POS Z to 231.0/-10.0
SP 062TI WAYPTTURN485 PRIME	000T00:06:00	2008-085T14:12:48	0	0	New Waypoint	NEG X to Titan_SC_RAM	NEG Y to Titan
SP 062TI WAYPTTURN585 PRIME	000T00:12:00	2008-085T14:54:48	0	0	New Waypoint	NEG Y to Titan (0.0,30.0,0.0 deg. offset)	NEG X to Sun
UVIS 062SW IPHSURVEY003 RIDER	000T09:00:00	2008-087T01:20:00	76	2.462	Non-SPASS		
UVIS 062TI CLOUDMAP001 VIMS	000T03:15:00	2008-085T05:27:48	1006.4	11.775	SPASS Rider		
UVIS 062TI MIRLMBINT001 CIRS	000T04:00:00	2008-085T09:27:48	2516	36.23	SPASS Rider		
UVIS 062TI MIRLMBMAP002 CIRS	000T04:00:00	2008-085T23:27:48	5032	72.461	SPASS Rider		
VIMS 062TI CLOUDMAP001 PRIME	000T03:15:00	2008-085T05:27:48	8461.5	99	Prime	ISS_NAC to Titan	POS Z to 231.0/-10.0
VIMS 062TI FIRNADCMP001 CIRS	000T01:00:00	2008-085T19:27:48	8333.3	30	SPASS Rider		
VIMS 062TI FIRNADCMP002 CIRS	000T02:00:00	2008-086T01:27:48	5000	36	SPASS Rider		
VIMS 062TI GLOBMAP002 PRIME	000T01:00:00	2008-086T04:27:48	10000	36	Prime	ISS_NAC to Titan (0.0,30.0,0.0 deg. offset)	NEG X to Sun
VIMS 062TI GLOBMAPFA001 PRIME	000T11:07:00	2008-086T15:34:48	2473.8	99	Prime	ISS_NAC to Titan (0.0,30.0,0.0 deg. offset)	NEG X to Sun
VIMS 062TI HIRES001 PRIME	000T00:19:00	2008-085T15:13:48	39473.7	45	Prime	ISS_NAC to Titan	NEG X to Sun
VIMS 062TI HIRESNAC001 PRIME	000T00:52:00	2008-085T16:27:48	11538.5	36	Prime	VIMS_IR to Titan (0.0,30.0,0.0 deg. offset)	NEG X to Sun
VIMS 062TI LIMB001 CIRS	000T03:00:00	2008-085T12:27:48	4166.7	45	SPASS Rider		
VIMS 062TI LIMB002 CIRS	000T04:00:00	2008-085T23:27:48	8125	117	SPASS Rider		
VIMS 062TI LIMB003 CIRS	000T01:15:00	2008-085T14:06:48	8000	36	SPASS Rider		
VIMS 062TI MIRLMBINT001 CIRS	000T04:00:00	2008-085T09:27:48	4375	63	SPASS Rider		
VIMS 062TI MOSAIC001 ISS	000T02:00:00	2008-086T03:27:48	9722.2	70	SPASS Rider		
VIMS 062TI REGMAP001 ISS	000T02:00:00	2008-085T18:27:48	11111.1	80	SPASS Rider		
VIMS 062TI TRANS003_ENGR	000T00:22:00	2008-085T15:35:48	12500	16.5	SPASS Rider		



## T42 SPASS

Request	Riders	Start (SCET)	Start (Epoch)	Duration	End (SCET)	Primary	Secondary	Comments
Sequence S039, length = 27 ...		2008-083T01:50:00	E062_SEQUENCE_039+000T00:00:00	027T05:28:00	2008-110T07:18:00			
TOST rev 62 Segment		2008-085T01:35:00		001T23:45:00	2008-087T01:20:00			
SP_062TI_WAYPTTURN085_PRIME		2008-085T01:35:00		000T00:30:00	2008-085T02:05:00	NEG_Y to Titan	POS_Z to 231.0/-10.0	NEG_Y to Titan Lat_View (-55,90,RHS,0), POS_Z to RADEC
<b>NEW WAYPOINT</b>		<b>2008-085T02:05:00</b>		<b>000T12:07:48</b>	<b>2008-085T14:12:48</b>	<b>NEG_Y to Titan</b>	<b>POS_Z to 231.0/-10.0</b>	
<b>SP_062TI_DEADTIME085_PRIME</b>		<b>2008-085T02:05:00</b>		<b>000T00:07:48</b>	<b>2008-085T02:12:48</b>	<b>ISS_NAC to Titan</b>	<b>NEG_X to Sun</b>	
VIMS_062TI_CLOUDMAP001_PRIME	C, I, U	2008-085T02:12:48	GMB_E062_Titan42-000T12:15:00	000T03:15:00	2008-085T05:27:48	ISS_NAC to Titan	POS_Z to 231.0/-10.0	
CIRS_062TI_MIRLMBINT001_PRIME	C, I, U, V	2008-085T05:27:48	GMB_E062_Titan42-000T09:00:00	000T04:00:00	2008-085T09:27:48	CIRS_FPB to Titan	PIC	
CIRS_062TI_FIRNADMAP001_PRIME	C, I, V	2008-085T09:27:48	GMB_E062_Titan42-000T05:00:00	000T03:00:00	2008-085T12:27:48	CIRS_FP1 to Titan	POS_X to North_Pole_Dir	
ENGR_062SC_ORSRCS085_PRIME	M	2008-085T12:27:48	GMB_E062_Titan42-000T02:00:00	000T00:01:00	2008-085T12:28:48	CIRS_FP1 to Titan	PIC	Actual duration = 20:51
CIRS_062TI_FIRLMBINT003_PRIME	I, M, V	2008-085T12:28:48	GMB_E062_Titan42-000T01:59:00	000T00:44:00	2008-085T13:12:48	CIRS_FP1 to Titan	PIC	
CIRS_062TI_FIRLMBAR001_PRIME	C, I, M, V	2008-085T13:12:48	GMB_E062_Titan42-000T01:15:00	000T00:25:00	2008-085T13:37:48	CIRS_FP1 to Titan	PIC	
CIRS_062TI_FIRLMBT001_PRIME	C, I, M, V	2008-085T13:37:48	GMB_E062_Titan42-000T00:50:00	000T00:29:00	2008-085T14:06:48	CIRS_FP1 to Titan	PIC	
SP_062TI_WAYPTTURN485_PRIME	M	2008-085T14:06:48	GMB_E062_Titan42-000T00:21:00	000T00:06:00	2008-085T14:12:48	NEG_X to Titan_SC_RAM	NEG_Y to Titan	on thrusters
<b>NEW WAYPOINT</b>		<b>2008-085T14:12:48</b>		<b>000T00:42:00</b>	<b>2008-085T14:54:48</b>	<b>NEG_X to Titan_SC_RAM</b>	<b>NEG_Y to Titan</b>	
INMS_062TI_T42RMPNT001_PRIME	C, M	2008-085T14:12:48	GMB_E062_Titan42-000T00:15:00	000T00:30:00	2008-085T14:42:48	NEG_X to Titan_SC_RAM	NEG_Y to Titan	
SP_062TI_WAYPTTURN585_PRIME	M	2008-085T14:42:48	GMB_E062_Titan42+000T00:15:00	000T00:12:00	2008-085T14:54:48	NEG_Y to Titan (0.0,30.0,0.0 deg. offs)	NEG_X to Sun	on thrusters
<b>NEW WAYPOINT</b>		<b>2008-085T14:54:48</b>		<b>001T10:25:12</b>	<b>2008-087T01:20:00</b>	<b>NEG_Y to Titan (0.0,30.0,0.0 deg. offs)</b>	<b>NEG_X to Sun</b>	
VIMS_062TI_HIRES001_PRIME	C, I, M, V	2008-085T14:54:48	GMB_E062_Titan42+000T00:27:00	000T00:19:00	2008-085T15:13:48	ISS_NAC to Titan	NEG_X to Sun	
ENGR_062SC_DFPWBAS085_PPS	C, M, V	2008-085T15:13:48	GMB_E062_Titan42+000T00:46:00	000T00:21:05	2008-085T15:34:53	ISS_NAC to Titan	NEG_X to Sun	
VIMS_062TI_HIRESNAC001_PRIME	C, I, M, V	2008-085T15:35:48	GMB_E062_Titan42+000T01:08:00	000T00:52:00	2008-085T16:27:48	VIMS_IR to Titan (0.0,30.0,0.0 deg. of	NEG_X to Sun	
ISS_062TI_REGMAP001_PRIME	C, V	2008-085T16:27:48	GMB_E062_Titan42+000T02:00:00	000T02:00:00	2008-085T18:27:48	ISS_NAC to Titan (0.0,30.0,0.0 deg. of	NEG_X to Sun	
CIRS_062TI_FIRNADMAP002_PRIME	C, I, V	2008-085T18:27:48	GMB_E062_Titan42+000T04:00:00	000T01:00:00	2008-085T19:27:48	CIRS_FP1 to Titan	POS_X to North_Pole_Dir	
CIRS_062TI_MIRLMBAP002_PRIME	C, I, U, V	2008-085T19:27:48	GMB_E062_Titan42+000T05:00:00	000T04:00:00	2008-085T23:27:48	CIRS_FPB to Titan	PIC	
CIRS_062TI_FIRNADCMP002_PRIME	C, I, V	2008-085T23:27:48	GMB_E062_Titan42+000T09:00:00	000T02:00:00	2008-086T01:27:48	CIRS_FP1 to Titan	PIC	
ISS_062TI_MONITORNA001_PRIME	C, V	2008-086T01:27:48	GMB_E062_Titan42+000T11:00:00	000T02:00:00	2008-086T03:27:48	ISS_NAC to Titan (0.0,30.0,0.0 deg. of	NEG_X to Sun	
VIMS_062TI_GLOBMAP002_PRIME	C, I	2008-086T03:27:48	GMB_E062_Titan42+000T13:00:00	000T01:00:00	2008-086T04:27:48	ISS_NAC to Titan (0.0,30.0,0.0 deg. of	NEG_X to Sun	
VIMS_062TI_GLOBMAPFA001_PRIME	C, I, M	2008-086T04:27:48	GMB_E062_Titan42+000T14:00:00	000T11:07:00	2008-086T15:34:48	ISS_NAC to Titan (0.0,30.0,0.0 deg. of	NEG_X to Sun	
<b>SP_062TI_DEADTIME086_PRIME</b>	<b>M</b>	<b>2008-086T15:34:48</b>	<b>GMB_E062_Titan42+001T01:07:00</b>	<b>000T00:15:12</b>	<b>2008-086T15:50:00</b>	<b>NEG_Y to Titan (0.0,30.0,0.0 deg. offs)</b>	<b>NEG_X to Sun</b>	
SP_062EA_DLTURN086_PRIME	M	2008-086T15:50:00		000T00:30:00	2008-086T16:20:00	XBAND to Earth	NEG_X to Sun	SP Turn to Earth
SP_062EA_M70METNON086_PRIME	C, M	2008-086T16:20:00		000T09:00:00	2008-087T01:20:00	XBAND to Earth	NEG_X to Sun	





# 062TI 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)	MARGN (Mb)	OPNAV (Mb)	SCI (Mb)	ENGR (Mb)	TOTAL (Mb)	CPACTY (Mb)	MARGN (Mb)	NET_MARGN (Mb)	(%)	CAROVR (Mb)
SP_062EA_M70METNON086_PRIME	086 16:20	087 01:20	0	3457	182	3639	3552	-86	0	235	53	3840	4418	578	578	13%	0

OK

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	085 01:35	086 16:20	269.1	41.8	423.7	21.3	908.0	118.3	159.1	0.0	537.3	120.5	808.5	0.0	50.3	3458.0
OBSERVATION_SI	085 01:35	086 16:20	0.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0
SP_062EA_M70METNON086_PRIME	086 16:20	087 01:20	32.4	9.7	86.4	1.6	0.0	19.4	38.9	0.0	41.9	2.5	0.0	0.0	0.0	232.8
DAILY TOTAL SCIENCE	085 01:35	087 01:20	301.5	51.6	528.1	22.9	908.0	137.8	198.0	0.0	579.2	122.9	808.5	0.0		

	CAPS (Mb)	CDA (Mb)	CIRS (Mb)	INMS (Mb)	ISS (Mb)	MAG (Mb)	MIMI (Mb)	RADAR (Mb)	RPWS (Mb)	UVIS (Mb)	VIMS (Mb)	PROBE (Mb)
TOTAL RECORDED (OPNAV data not included)	301.5	51.6	528.1	22.9	908.0	137.8	198.0	0.0	579.2	122.9	808.5	0.0



# Telemetry Modes

## TELEMETRY MODE REPORT

EPOCH RELATIVE	UTC	DURATION	TELEMETRY MODE	REQUEST
	2008-085T01:35:00.000	12:35:48	S_N_ER_3	SP_062NA_M70OBSNON086_NA
GMB_E062_Titan42-000T00:17:00	2008-085T14:10:48.000	00:32:00	S_N_ER_2	SP_062NA_M70OBSNON086_NA
GMB_E062_Titan42+000T00:15:00	2008-085T14:42:48.000	001T01:37:12	S_N_ER_3	SP_062NA_M70OBSNON086_NA
	2008-086T16:20:00.000	00:15:00	RTE_N_SPB_124425	SP_062EA_M70METNON086_PRIME
	2008-086T16:35:00.000	01:00:00	RTE_N_SPB_142200	SP_062EA_M70METNON086_PRIME
	2008-086T17:35:00.000	07:15:00	RTE_N_SPB_165900	SP_062EA_M70METNON086_PRIME
	2008-087T00:50:00.000	00:30:00	RTE_N_SPB_142200	SP_062EA_M70METNON086_PRIME



# DSN Requests

CASSINI DOWNLINK/DSN COVERAGE SUMMARY for T42\_071002.apf on 2007-Oct-02 10:12:32

(+ = 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
M70METNON086	086T16:20-01:20	086T17:30-02:30	09:00	124,142,165,142	55	086T16:20-01:20	086T17:30-02:30	09:00	105/15	RSS ORT	N750
				^-- and also -->	63	086T16:20-01:20	086T17:30-02:30	09:00	60/15	TP	N003



# SPLAT Report

**No Issues**



- Dual playback of VIMS high res data; Saturn has agreed to take on the 148 Mb data volume
- Changes for turn 485:
  - Turn margin split changes from 4/2 to 5/1 (turn time = 04:32:37)
  - Z-axis profile rate violation, so rates are dropped from 4.54 to 4.5



**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. B. All initial downlink attitudes have been checked as waypoints.	C		
2. All turns to and from waypoints checked for violations and margins. <input type="checkbox"/> CAPS <input type="checkbox"/> CDA <input type="checkbox"/> CIRS <input type="checkbox"/> INMS <input type="checkbox"/> ISS <input type="checkbox"/> MIMI <input type="checkbox"/> MAG <input type="checkbox"/> NAV <input type="checkbox"/> RADAR <input type="checkbox"/> RPWS <input type="checkbox"/> RSS <input type="checkbox"/> UVIS <input type="checkbox"/> VIM S Each Prime Instrument agrees to accept a reduction in observation time during implementation if problems arise.	N/A		
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		
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 T31 is 15 min. according to memo dated .	
6. Waypoints changes are ≤3 per day A. All turns that accomplish the waypoint strategy are requested by SP or OpNav.	V		
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?	Yes	

(DOUBLE-CLICK TO MAKE CHANGES)