

# **TOST: RE-Delivery**

## **050TI (T36)**

Segment: 2007-274T12:51:00 – 2007-276T14:19:00

Titan C/A: 2007-275T04:42:43, Altitude = 975 km

Epoch: GMB\_E050\_Titan36

May 22, 2007

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## High-Level Science Objectives

- RADAR - SAR imaging of south pole
- INMS—Part of the MAPS/TOST Campaign. Determine atmospheric and ionospheric composition and thermal structure.
- ISS - Limited global-scale (1 km/pixel) mapping of the equatorial bright/dark boundary region around 1.4 N, 209 W. Opportunity for stereo imaging with later flyby. \*\*Low phase angle ~34 deg.\*\*

Full-disk, color mosaic (centered at 1.8 N, 213 W) at 1.4-1.7 km/pixel.

Low phase angle 34 deg.\*\*



# 050TI(T36) Timeline

## C/A 2007-275T04:43@975km

Start Time	End Time	Prime Activity	Obs. Detail	Op Mode	TLM Mode	Comments
274T12:51	274T13:21	SP Turn to waypoint		DFPW Normal	S_N_ER_3	ISS_NAC to Titan, +X to NTP
274T13:21	274T13:31	OD Dead Time		DFPW Normal	S_N_ER_3	
-15:12	-10:00	CIRS	FP1	RADAR_WU @ -10:15	S_N_ER_5a @ -10:15	Template N (SNER_5a for 15 min)
-10:00	-09:00	ISS	Photometry	RADAR_WU	S_N_ER_3	Template N
-09:00	-05:11	UVIS	EUVFUV	RADAR_WU	S_N_ER_3	Template P
-05:11	-04:49	SP Turn to waypoint		RADAR_WU	S_N_ER_3	-Z to Titan, +X to 205/-20
-04:49		Begin Custom Period				
-04:49	-02:00	RADAR	Radiometry	RADAR_RWA	S_N_ER_8	Template S
-02:00	-00:52	RADAR	Scatterometry	RADAR_RWA	S_N_ER_8	
-00:52	-00:30	RWA to RCS Transition		RADAR/INMS	S_N_ER_8	
-00:30	-00:15	RADAR	Altimetry	RADAR/INMS	S_N_ER_8	
-00:15	+00:15	RADAR		RADAR/INMS	S_N_ER_8	
+00:15	+00:30	RADAR	Altimetry	RADAR/INMS	S_N_ER_8	
+00:30	+00:53	RCS to RWA Transition		RADAR_RWA	S_N_ER_8	
+00:53	+02:00	RADAR	Scatterometry	RADAR_RWA	S_N_ER_8	
+02:00	+04:50	RADAR	Radiometry	RADAR_RWA	S_N_ER_8	Template L
	+00:30	End Custom Period				
+04:50	+05:10	SP Turn to waypoint		DFPW Normal	S_N_ER_3	-Y to Titan, -X to Sun
+05:10	+08:00	VIMS	Regional Map	DFPW Normal	S_N_ER_3	Template I
+08:00	+09:00	ISS	NAC & WAC	DFPW Normal	S_N_ER_3	Template I
+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	Regional Map	DFPW Normal	S_N_ER_3	Template D
+14:00	+22:46	CIRS		DFPW Normal ; RSSKRAWAF @ 2007- 276T02:12:00	S_N_ER_3	Template A (modified)
276T03:29	276T03:51	OD Dead Time		RSSKRAWAF	S_N_ER_3	
276T03:51	276T04:19	SP Turn to downlink		RSSKRAWAF	S_N_ER_3	
276T04:19	276T14:19	Madrid 70-m Array		RSSKRAWAF	RTE_N_SPB	DSN Maintenance from 06:37 - 14:37



# CIMS TOL for 050TI (T36)

050TI (T36)

Request	Start Time	Epoch	Duration	End Time	Rate	Data Volume	SPASS Type	Primary Pointing	Secondary Pointing	Pointing Agreement
MP_049NA_DSS45DOWN003_NA	2007-239T00:00:00		035T23:59:59	2007-274T23:59:59	0	0	Non-SPASS			
MP_050NA_SEQUENCE034_NA	2007-265T20:51:00	E050_SEQUENCE_034+000T00:00:00	038T21:49:00	2007-304T18:40:00	0	0	SPASS Note			
CDA_050OT_DRATE001_PRIME	2007-272T16:00:00		002T02:00:00	2007-274T18:00:00	3668	660.24	Non-SPASS			
MP_050NA_DSS45DOWN001_NA	2007-274T00:00:00		048T23:59:59	2007-322T23:59:59	0	0	Non-SPASS			
CAPS_050SA_SURVEY004_RIDER	2007-274T03:26:00		000T23:16:43	2007-275T02:42:43	1000	83.803	Non-SPASS			
INMS_050SA_SURVEY004_RIDER	2007-274T04:47:00		000T11:59:50	2007-274T16:46:50	50	2.16	Non-SPASS			
MAG_050OT_SURVEY003_PRIME	2007-274T04:47:00		000T19:55:43	2007-275T00:42:43	600	43.046	Non-SPASS			
CDA_050DR_1101DUST247_RIDER	2007-274T04:48:51		000T08:19:50	2007-274T13:08:41	524	15.715	Non-SPASS			
ENGR_050SC_DFPW274_PPS	2007-274T12:51:00		000T00:00:30	2007-274T12:51:30	0	0	Non-SPASS			
MIMI_050SA_SURVEY004_RIDER	2007-274T12:51:00		000T13:51:43	2007-275T02:42:43	900	44.913	SPASS Rider			
RPWS_050SA_INSURVEY003_PRIME	2007-274T12:51:00		000T02:39:00	2007-274T15:30:00	1310	12.498	Non-SPASS			
SP_050NA_M700BSNON276_NA	2007-274T12:51:00		001T15:28:00	2007-276T04:19:00	0	0	Non-SPASS			
SP_050NA_TOSTSEG274_NA	2007-274T12:51:00		002T01:28:00	2007-276T14:19:00	0	0	SPASS Note			
SP_050TI_WAYPTTURN274_PRIME	2007-274T12:51:00		000T00:30:00	2007-274T13:21:00	0	0	New Waypoint	ISS_NAC to Titan	NEG_X to Sun	SP Turn to Waypoint
CDA_050RI_1400RINGM034_RIDER	2007-274T13:09:38		000T02:00:00	2007-274T15:09:38	524	3.773	Non-SPASS			
SP_050TI_DEADTIME274_PRIME	2007-274T13:21:00		000T00:09:43	2007-274T13:30:43	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun	
CIRS_050TI_FIRNADCM001_PRIME	2007-274T13:30:43	GMB_E050_Titan36-000T15:12:00	000T05:12:00	2007-274T18:42:43	4000	74.88	Prime	CIRS_FP1 to Titan	PIC	
CIRS_050TI_FIRNADCM001_SI	2007-274T13:30:43	GMB_E050_Titan36-000T15:12:00	000T05:12:00	2007-274T18:42:43	0	5	SPASS Rider			
ISS_050TI_FIRNADCM001_CIRS	2007-274T13:30:43	GMB_E050_Titan36-000T15:12:00	000T05:12:00	2007-274T18:42:43	0	15	SPASS Rider			
VIMS_050TI_MIDIRMAP002_CIRS	2007-274T13:30:43	GMB_E050_Titan36-000T15:12:00	000T02:12:00	2007-274T15:42:43	3409.1	27	SPASS Rider			
CDA_050DR_1500DUST248_RIDER	2007-274T15:10:38		000T03:23:29	2007-274T18:34:07	524	6.398	Non-SPASS			
RPWS_050SA_OUTSURVEY002_PRIME	2007-274T15:30:00		000T11:12:43	2007-275T02:42:43	1310	52.876	Non-SPASS			
VIMS_050TI_FIRNADCM001_CIRS	2007-274T15:42:43	GMB_E050_Titan36-000T13:00:00	000T03:00:00	2007-274T18:42:43	2500	27	SPASS Rider			
INMS_050TI_T36INBD001_RIDER	2007-274T16:46:50		000T10:55:53	2007-275T03:42:43	100	3.935	Non-SPASS			
ENGR_050SC_RADWU274_PPS	2007-274T18:27:43	GMB_E050_Titan36-000T10:15:00	000T00:00:07	2007-274T18:27:50	0	0	Non-SPASS			
RADAR_050TI_T36WARMUP001_RIDER	2007-274T18:27:43	GMB_E050_Titan36-000T10:15:00	000T05:26:00	2007-274T23:53:43	474.2	9.276	SPASS Rider			
CDA_050RI_1600RINGM036_RIDER	2007-274T18:35:06		000T02:00:00	2007-274T20:35:06	524	3.773	Non-SPASS			
CIRS_050TI_PHOTOMWAC001_ISS	2007-274T18:42:43	GMB_E050_Titan36-000T10:00:00	000T01:00:00	2007-274T19:42:43	2000	7.2	SPASS Rider			
ISS_050TI_PHOTOMWAC001_PRIME	2007-274T18:42:43	GMB_E050_Titan36-000T10:00:00	000T01:00:00	2007-274T19:42:43	0	30	Prime	ISS_NAC to Titan	NEG_X to Sun	
VIMS_050TI_FIRNADCM003_ISS	2007-274T18:42:43	GMB_E050_Titan36-000T10:00:00	000T01:00:00	2007-274T19:42:43	9166.7	33	SPASS Rider			
CIRS_050TI_EUVFUV001_UVIS	2007-274T19:42:43	GMB_E050_Titan36-000T09:00:00	000T03:49:00	2007-274T23:31:43	2000	27.48	SPASS Rider			
ISS_050TI_EUVFUV001_UVIS	2007-274T19:42:43	GMB_E050_Titan36-000T09:00:00	000T03:49:00	2007-274T23:31:43	0	10	SPASS Rider			
UVIS_050TI_EUVFUV001_PRIME	2007-274T19:42:43	GMB_E050_Titan36-000T09:00:00	000T03:49:00	2007-274T23:31:43	5032	69.14	Prime	NEG_Y to Titan	POS_X to NTP	
VIMS_050TI_EUVFUV001_UVIS	2007-274T19:42:43	GMB_E050_Titan36-000T09:00:00	000T03:45:00	2007-274T23:27:43	5333.3	72	SPASS Rider			
CDA_050DR_1700DUST388_RIDER	2007-274T20:36:05		000T23:35:06	2007-275T20:11:11	149.9	12.724	Non-SPASS			
MP_050SA_RPXDESCEN050_NA	2007-274T22:49:40		000T00:00:01	2007-274T22:49:41	0	0	Non-SPASS			
SP_050TI_WAYPTTURN474_PRIME	2007-274T23:31:43	GMB_E050_Titan36-000T05:11:00	000T00:22:00	2007-274T23:53:43	0	0	New Waypoint	NEG_Z to Titan	POS_X to 205.0/-20.0	
ENGR_050SC_RADRWA274_PPS	2007-274T23:53:43	GMB_E050_Titan36-000T04:49:00	000T00:00:44	2007-274T23:54:27	0	0	Non-SPASS			
RADAR_050TI_T36INRAD001_PRIME	2007-274T23:53:43	GMB_E050_Titan36-000T04:49:00	000T02:49:00	2007-275T02:42:43	5216.6	52.897	Prime	NEG_Z to Titan (0.0,0.0,-45.0 deg. offset)	POS_Y to North_Pole_Dir	Use +Y_NTP and +X_NTP for the two polarizations.
SP_050NA_BEGCUSTOM275_NA	2007-274T23:53:43	GMB_E050_Titan36-000T04:49:00	000T00:00:01	2007-274T23:53:44	0	0	SPASS Note			
MAG_050TI_MAGTITAN001_PRIME	2007-275T00:42:43	GMB_E050_Titan36-000T04:00:00	000T08:00:00	2007-275T08:42:43	988	28.454	Non-SPASS			
CAPS_050TI_T36INBD001_PRIME	2007-275T02:42:43	GMB_E050_Titan36-000T02:00:00	000T01:15:00	2007-275T03:57:43	4000	18	SPASS Rider			
MIMI_050TI_T36INBD001_CAPS	2007-275T02:42:43	GMB_E050_Titan36-000T02:00:00	000T01:00:00	2007-275T03:42:43	2000	7.2	SPASS Rider			
RADAR_050TI_T36INSCAT001_PRIME	2007-275T02:42:43	GMB_E050_Titan36-000T02:00:00	000T01:08:00	2007-275T03:50:43	25973.8	105.973	Prime	NEG_Z to Titan	POS_X to North_Pole_Dir	
RPWS_050TI_TIIINTRMED001_PRIME	2007-275T02:42:43	GMB_E050_Titan36-000T02:00:00	000T01:30:00	2007-275T04:12:43	3499.8	18.899	Non-SPASS			
INMS_050TI_T36RMPNT001_INMS	2007-275T03:42:43	GMB_E050_Titan36-000T01:00:00	000T00:45:00	2007-275T04:27:43	1498	4.045	Non-SPASS			
MIMI_050TI_T36CLOSE001_CAPS	2007-275T03:42:43	GMB_E050_Titan36-000T01:00:00	000T02:00:00	2007-275T05:42:43	2000	14.4	SPASS Rider			
ENGR_050SC_RADRCS275_PPS	2007-275T03:50:43	GMB_E050_Titan36-000T00:52:00	000T00:21:13	2007-275T04:11:56	0	0	Prime	NEG_Z to Titan	POS_X to North_Pole_Dir	Deadband (2, 2, 20)
CAPS_050TI_T36CLOSE001_PRIME	2007-275T03:57:43	GMB_E050_Titan36-000T00:45:00	000T01:30:00	2007-275T05:27:43	16000	86.4	SPASS Rider			
RADAR_050TI_T36INALT001_PRIME	2007-275T04:11:56	GMB_E050_Titan36-000T00:30:47	000T00:15:47	2007-275T04:27:43	32211.8	30.505	Prime	NEG_Z to Titan	NEG_X to Titan_SC_RAM	
RPWS_050TI_TICA001_PRIME	2007-275T04:12:43	GMB_E050_Titan36-000T00:30:00	000T01:00:00	2007-275T05:12:43	30464.3	109.672	Non-SPASS			
ENGR_050SC_AACSDUAL001_CDS	2007-275T04:27:43	GMB_E050_Titan36-000T00:15:00	000T00:30:00	2007-275T04:57:43	1638	2.948	Non-SPASS			
INMS_050TI_T36RMPNT002_PRIME	2007-275T04:27:43	GMB_E050_Titan36-000T00:15:00	000T00:30:00	2007-275T04:57:43	1498	2.696	SPASS Rider			
RADAR_050TI_T36INMSRA001_PRIME	2007-275T04:27:43	GMB_E050_Titan36-000T00:15:00	000T00:30:00	2007-275T04:57:43	236171.5	425.109	Prime	NEG_X to Titan_SC_RAM	NEG_Z to Titan	To do pointing sasf for INMS



# CIMS TOL for 050TI (T36) (con't)

050TI (T36)

MP_050TI_FLYBYT036_NA	2007-275T04:42:43		000T00:00:01	2007-275T04:42:44	0	0	Non-SPASS			
INMS_050TI_T36RMPNT002_INMS	2007-275T04:57:43	GMB_E050_Titan36+000T00:15:00	000T00:45:00	2007-275T05:42:43	1498	4.045	Non-SPASS			
RADAR_050TI_T36OUTALT001_PRIM	2007-275T04:57:43	GMB_E050_Titan36+000T00:15:00	000T00:15:00	2007-275T05:12:43	32211.8	28.991	Prime	NEG_Z to Titan (0.0,0.0,-40.0 deg. offset)	NEG_X to Titan_SC_RAM	Turn to -X to NTP (0,0,-45) at the end.
ENGR_050SC_RADRWBIAS275_PPS	2007-275T05:12:43	GMB_E050_Titan36+000T00:30:00	000T00:23:18	2007-275T05:36:01	0	0	Prime	NEG_Z to Titan (0.0,0.0,-45.0 deg. offset)	NEG_X to North_Pole_Dir	
RPWS_050TI_T1INTRMED002_PRIME	2007-275T05:12:43	GMB_E050_Titan36+000T00:30:00	000T01:30:00	2007-275T06:42:43	9749.5	52.647	Non-SPASS			
CAPS_050TI_T36OUTBND001_PRIME	2007-275T05:27:43	GMB_E050_Titan36+000T00:45:00	000T01:15:00	2007-275T06:42:43	4000	18	SPASS Rider			
RADAR_050TI_T36OUTSCT001_PRIM	2007-275T05:36:01	GMB_E050_Titan36+000T00:53:18	000T01:06:42	2007-275T06:42:43	25973.8	103.947	Prime	NEG_Z to Titan (0.0,0.0,-45.0 deg. offset)	NEG_X to North_Pole_Dir	
INMS_050TI_T36OUTBD001_RIDER	2007-275T05:42:43	GMB_E050_Titan36+000T01:00:00	000T11:00:00	2007-275T16:42:43	100	3.96	Non-SPASS			
MIMI_050TI_T36OUTBND001_CAPS	2007-275T05:42:43	GMB_E050_Titan36+000T01:00:00	000T01:00:00	2007-275T06:42:43	2000	7.2	SPASS Rider			
CAPS_050SA_SURVEY003_RIDER	2007-275T06:42:43	GMB_E050_Titan36+000T02:00:00	004T13:24:17	2007-279T20:07:00	1000	393.857	Non-SPASS			
MIMI_050CO_SURVEY003_RIDER	2007-275T06:42:43	GMB_E050_Titan36+000T02:00:00	000T21:57:10	2007-276T04:39:53	900	71.127	Non-SPASS			
RADAR_050TI_T36OUTRAD001_PRIM	2007-275T06:42:43	GMB_E050_Titan36+000T02:00:00	000T02:50:00	2007-275T09:32:43	5216.6	53.21	Prime	NEG_Z to Titan (0.0,0.0,-45.0 deg. offset)	NEG_X to North_Pole_Dir	Use -X_NTP and -Y_NTP with (0,0,-45) for the two polarizations.
RPWS_050SA_OUTSURVEY006_PRIM	2007-275T06:42:43	GMB_E050_Titan36+000T02:00:00	001T07:29:10	2007-276T14:11:53	1310	148.49	Non-SPASS			
MAG_050OT_SURVEY005_PRIME	2007-275T08:42:43	GMB_E050_Titan36+000T04:00:00	001T05:36:17	2007-276T14:19:00	600	63.946	Non-SPASS			
ENGR_050SC_DFPW275_PPS	2007-275T09:32:06	GMB_E050_Titan36+000T04:49:23	000T00:00:37	2007-275T09:32:43	0	0	Non-SPASS			
SP_050NA_ENDCUSTOM275_NA	2007-275T09:32:43	GMB_E050_Titan36+000T04:50:00	000T00:00:01	2007-275T09:32:44	0	0	SPASS Note			
SP_050TI_WAYPTTURN275_PRIME	2007-275T09:32:43	GMB_E050_Titan36+000T04:50:00	000T00:20:00	2007-275T09:52:43	0	0	New Waypoint	NEG_Y to Titan	NEG_X to Sun	
CIRS_050TI_MEDRES001_VIMS	2007-275T09:52:43	GMB_E050_Titan36+000T05:10:00	000T02:50:00	2007-275T12:42:43	2000	20.4	SPASS Rider			
ISS_050TI_MEDRES001_VIMS	2007-275T09:52:43	GMB_E050_Titan36+000T05:10:00	000T02:50:00	2007-275T12:42:43	0	99	SPASS Rider			
VIMS_050TI_MEDRES001_PRIME	2007-275T09:52:43	GMB_E050_Titan36+000T05:10:00	000T02:50:00	2007-275T12:42:43	10980.4	112	Prime	ISS_NAC to Titan	NEG_X to Sun	
CIRS_050TI_GLOBMAP001_ISS	2007-275T12:42:43	GMB_E050_Titan36+000T08:00:00	000T00:40:00	2007-275T13:22:43	2000	4.8	SPASS Rider			
ISS_050TI_GLOBMAP001_PRIME	2007-275T12:42:43	GMB_E050_Titan36+000T08:00:00	000T00:40:00	2007-275T13:22:43	0	72	Prime	ISS_NAC to Titan	NEG_X to Sun	
VIMS_050TI_PHOTOMWAC001_ISS	2007-275T12:42:43	GMB_E050_Titan36+000T08:00:00	000T01:00:00	2007-275T13:42:43	10555.6	38	SPASS Rider			
CIRS_050TI_PHOTOMWAC002_ISS	2007-275T13:22:43	GMB_E050_Titan36+000T08:40:00	000T00:20:00	2007-275T13:42:43	2000	2.4	SPASS Rider			
ISS_050TI_PHOTOMWAC002_PRIME	2007-275T13:22:43	GMB_E050_Titan36+000T08:40:00	000T00:20:00	2007-275T13:42:43	0	30	Prime	ISS_NAC to Titan	NEG_X to Sun	
CIRS_050TI_FIRNADCMP002_PRIME	2007-275T13:42:43	GMB_E050_Titan36+000T09:00:00	000T02:00:00	2007-275T15:42:43	4000	28.8	Prime	CIRS_FP1 to Titan	PIC	
CIRS_050TI_FIRNADCMP002_SI	2007-275T13:42:43	GMB_E050_Titan36+000T09:00:00	000T02:00:00	2007-275T15:42:43	0	5	SPASS Rider			
ISS_050TI_FIRNADCMP002_CIRS	2007-275T13:42:43	GMB_E050_Titan36+000T09:00:00	000T02:00:00	2007-275T15:42:43	0	20	SPASS Rider			
VIMS_050TI_FIRNADCMP002_CIRS	2007-275T13:42:43	GMB_E050_Titan36+000T09:00:00	000T02:00:00	2007-275T15:42:43	5000	36	SPASS Rider			
MP_050SA_RPXASCEND050_NA	2007-275T15:09:14		000T00:00:01	2007-275T15:09:15	0	0	Non-SPASS			
CIRS_050TI_MONITORNA001_ISS	2007-275T15:42:43	GMB_E050_Titan36+000T11:00:00	000T02:00:00	2007-275T17:42:43	2000	14.4	SPASS Rider			
ISS_050TI_MONITORNA001_PRIME	2007-275T15:42:43	GMB_E050_Titan36+000T11:00:00	000T02:00:00	2007-275T17:42:43	0	276	Prime	ISS_NAC to Titan	NEG_X to Sun	
VIMS_050TI_MONITORNA002_ISS	2007-275T15:42:43	GMB_E050_Titan36+000T11:00:00	000T02:00:00	2007-275T17:42:43	11111.1	80	SPASS Rider			
INMS_050SA_SURVEY005_RIDER	2007-275T16:42:43	GMB_E050_Titan36+000T12:00:00	000T11:52:56	2007-276T04:35:39	50	2.139	Non-SPASS			
ISS_050TI_GLOBMAP002_VIMS	2007-275T17:42:43	GMB_E050_Titan36+000T13:00:00	000T01:00:00	2007-275T18:42:43	0	28	SPASS Rider			
VIMS_050TI_GLOBMAP002_PRIME	2007-275T17:42:43	GMB_E050_Titan36+000T13:00:00	000T01:00:00	2007-275T18:42:43	10000	36	Prime	ISS_NAC to Titan	NEG_X to Sun	
CIRS_050TI_MIDIRTMAP002_PRIME	2007-275T18:42:43	GMB_E050_Titan36+000T14:00:00	000T08:46:00	2007-276T03:28:43	4000	126.24	Prime	CIRS_FPB to Titan	North_Pole_Dir	
CIRS_050TI_MIDIRTMAP002_SI	2007-275T18:42:43	GMB_E050_Titan36+000T14:00:00	000T08:46:00	2007-276T03:28:43	0	3	SPASS Rider			
ISS_050TI_MIDIRTMAP002_CIRS	2007-275T18:42:43	GMB_E050_Titan36+000T14:00:00	000T08:46:00	2007-276T03:28:43	0	10	SPASS Rider			
VIMS_050TI_MIDIRTMAP003_CIRS	2007-275T18:42:43	GMB_E050_Titan36+000T14:00:00	000T08:46:00	2007-276T03:28:43	1996.2	63	SPASS Rider			
CDA_050HY_2400HYORX034_RIDER	2007-275T20:12:13		000T02:00:00	2007-275T22:12:13	524	3.773	Non-SPASS			
CDA_050DR_2500DUST389_RIDER	2007-275T22:13:17		0003T21:53:43	2007-279T20:07:00	149.9	122.798	Non-SPASS			
ENGR_050SC_RSSKRWAF276_PPS	2007-276T02:12:00		000T00:05:04	2007-276T02:17:04	0	0	Non-SPASS			
RSS_050SA_OCCORT002_RSS	2007-276T02:12:00		000T12:07:00	2007-276T14:19:00	0	0	SPASS Rider			
SP_050TI_DEADTIME276_PRIME	2007-276T03:28:43	GMB_E050_Titan36+000T22:46:00	000T00:22:17	2007-276T03:51:00	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun	
SP_050EA_DLTURN276_PRIME	2007-276T03:51:00		000T00:28:00	2007-276T04:19:00	0	0	Prime	XBAND to Earth	POS_X to NEP	SP Turn to Earth
ENGR_050SC_AACSDUAL002_CDS	2007-276T04:18:47		000T00:00:02	2007-276T04:18:49	0	0	Non-SPASS			
SP_050EA_M70ARRNON276_PRIME	2007-276T04:19:00		000T02:18:00	2007-276T06:37:00	0	0	Prime	XBAND to Earth	Rolling	
SP_050NA_M34BWNON276_SP	2007-276T04:19:00		000T10:00:00	2007-276T14:19:00	0	0	Non-SPASS			
SP_050NA_M70ARRNON276_SP	2007-276T04:19:00		000T02:18:00	2007-276T06:37:00	0	0	Non-SPASS			
UVIS_050SW_IPHSURVEY005_RIDER	2007-276T04:19:00		000T10:00:00	2007-276T14:19:00	76	2.735	Non-SPASS			
INMS_050SA_SURVEY006_RIDER	2007-276T04:47:00		002T15:35:00	2007-278T20:22:00	50	11.445	Non-SPASS			
MIMI_050CO_SURVEY006_RIDER	2007-276T04:47:01		009T05:18:23	2007-285T10:05:24	900	717.033	Non-SPASS			
CIRS_050IC_DSCAL1617_RIDER	2007-276T05:49:00		000T06:00:00	2007-276T11:49:00	4000	86.4	SPASS Rider			
SP_050EA_M34BWNON276_PRIME	2007-276T06:37:00		000T07:42:00	2007-276T14:19:00	0	0	Prime	XBAND to Earth	Rolling	



# 050TI (T36) CIMS TOL Sorted by Team

050TI (T36)

Request	Start Time	Epoch	Duration	End Time	Rate	Data Volume	SPASS Type	Primary Pointing	Secondary Pointing	Pointing Agreement
CAPS_050SA_SURVEY004_RIDER	2007-274T03:26:00		000T23:16:43	2007-275T02:42:43	1000	83.803	Non-SPASS			
CAPS_050TI_T36INBD001_PRIME	2007-275T02:42:43	GMB_E050_Titan36-000T02:00:00	000T01:15:00	2007-275T03:57:43	4000	18	SPASS Rider			
CAPS_050TI_T36CLOSE001_PRIME	2007-275T03:57:43	GMB_E050_Titan36-000T00:45:00	000T01:30:00	2007-275T05:27:43	16000	86.4	SPASS Rider			
CAPS_050TI_T36OUTBND001_PRIME	2007-275T05:27:43	GMB_E050_Titan36+000T00:45:00	000T01:15:00	2007-275T06:42:43	4000	18	SPASS Rider			
CAPS_050SA_SURVEY003_RIDER	2007-275T06:42:43	GMB_E050_Titan36+000T02:00:00	004T13:24:17	2007-279T20:07:00	1000	393.857	Non-SPASS			
CDA_0500T_DRATE001_PRIME	2007-272T16:00:00		002T02:00:00	2007-274T18:00:00	3668	660.24	Non-SPASS			
CDA_050DR_1101DUST247_RIDER	2007-274T04:48:51		000T08:19:50	2007-274T13:08:41	524	15.715	Non-SPASS			
CDA_050RI_1400RINGM034_RIDER	2007-274T13:09:38		000T02:00:00	2007-274T15:09:38	524	3.773	Non-SPASS			
CDA_050DR_1500DUST248_RIDER	2007-274T15:10:38		000T03:23:29	2007-274T18:34:07	524	6.398	Non-SPASS			
CDA_050RI_1600RINGM036_RIDER	2007-274T18:35:06		000T02:00:00	2007-274T20:35:06	524	3.773	Non-SPASS			
CDA_050DR_1700DUST388_RIDER	2007-274T20:36:05		000T23:35:06	2007-275T20:11:11	149.9	12.724	Non-SPASS			
CDA_050HY_2400HYORX034_RIDER	2007-275T20:12:13		000T02:00:00	2007-275T22:12:13	524	3.773	Non-SPASS			
CDA_050DR_2500DUST389_RIDER	2007-275T22:13:17		0003T21:53:43	2007-279T20:07:00	149.9	122.798	Non-SPASS			
CIRS_050TI_FIRNADCMP001_PRIME	2007-274T13:30:43	GMB_E050_Titan36-000T15:12:00	000T05:12:00	2007-274T18:42:43	4000	74.88	Prime	CIRS_FP1 to Titan	PIC	
CIRS_050TI_FIRNADCMP001_SI	2007-274T13:30:43	GMB_E050_Titan36-000T15:12:00	000T05:12:00	2007-274T18:42:43	0	5	SPASS Rider			
CIRS_050TI_PHOTOMWAC001_ISS	2007-274T18:42:43	GMB_E050_Titan36-000T10:00:00	000T01:00:00	2007-274T19:42:43	2000	7.2	SPASS Rider			
CIRS_050TI_EUVFUV001_UVIS	2007-274T19:42:43	GMB_E050_Titan36+000T09:00:00	000T03:49:00	2007-274T23:31:43	2000	27.48	SPASS Rider			
CIRS_050TI_MEDRES001_VIMS	2007-275T09:52:43	GMB_E050_Titan36+000T05:10:00	000T02:50:00	2007-275T12:42:43	2000	20.4	SPASS Rider			
CIRS_050TI_GLOBMAP001_ISS	2007-275T12:42:43	GMB_E050_Titan36+000T08:00:00	000T00:40:00	2007-275T13:22:43	2000	4.8	SPASS Rider			
CIRS_050TI_PHOTOMWAC002_ISS	2007-275T13:22:43	GMB_E050_Titan36+000T08:40:00	000T00:20:00	2007-275T13:42:43	2000	2.4	SPASS Rider			
CIRS_050TI_FIRNADCMP002_PRIME	2007-275T13:42:43	GMB_E050_Titan36+000T09:00:00	000T02:00:00	2007-275T15:42:43	4000	28.8	Prime	CIRS_FP1 to Titan	PIC	
CIRS_050TI_FIRNADCMP002_SI	2007-275T13:42:43	GMB_E050_Titan36+000T09:00:00	000T02:00:00	2007-275T15:42:43	0	5	SPASS Rider			
CIRS_050TI_MONITORNA001_ISS	2007-275T15:42:43	GMB_E050_Titan36+000T11:00:00	000T02:00:00	2007-275T17:42:43	2000	14.4	SPASS Rider			
CIRS_050TI_MIDIRTMAP002_PRIME	2007-275T18:42:43	GMB_E050_Titan36+000T14:00:00	000T08:46:00	2007-276T03:28:43	4000	126.24	Prime	CIRS_FPB to Titan	North_Pole_Dir	
CIRS_050TI_MIDIRTMAP002_SI	2007-275T18:42:43	GMB_E050_Titan36+000T14:00:00	000T08:46:00	2007-276T03:28:43	0	3	SPASS Rider			
CIRS_050IC_DSCAL1617_RIDER	2007-276T05:49:00		000T06:00:00	2007-276T11:49:00	4000	86.4	SPASS Rider			
ENGR_050SC_DFPW274_PPS	2007-274T12:51:00		000T00:00:30	2007-274T12:51:30	0	0	Non-SPASS			
ENGR_050SC_RADWU274_PPS	2007-274T18:27:43	GMB_E050_Titan36-000T10:15:00	000T00:00:07	2007-274T18:27:50	0	0	Non-SPASS			
ENGR_050SC_RADRWA274_PPS	2007-274T23:53:43	GMB_E050_Titan36-000T04:49:00	000T00:00:44	2007-274T23:54:27	0	0	Non-SPASS			
ENGR_050SC_RADRCS275_PPS	2007-275T03:50:43	GMB_E050_Titan36-000T00:52:00	000T00:21:13	2007-275T04:11:56	0	0	Prime	NEG_Z to Titan	North_Pole_Dir	Deadband (2, 2, 20)
ENGR_050SC_AACSDUAL001_CDS	2007-275T04:27:43	GMB_E050_Titan36-000T00:15:00	000T00:30:00	2007-275T04:57:43	1638	2.948	Non-SPASS			
ENGR_050SC_RADRWBIAS275_PPS	2007-275T05:12:43	GMB_E050_Titan36+000T00:30:00	000T00:23:18	2007-275T05:36:01	0	0	Prime	NEG_Z to Titan (0.0,0.0,-45.0 deg. offset)	NEG_X to North_Pole_Dir	
ENGR_050SC_DFPW275_PPS	2007-275T09:32:06	GMB_E050_Titan36+000T04:49:23	000T00:00:37	2007-275T09:32:43	0	0	Non-SPASS			
ENGR_050SC_RSSKRWAF276_PPS	2007-276T02:12:00		000T00:05:04	2007-276T02:17:04	0	0	Non-SPASS			
ENGR_050SC_AACSDUAL002_CDS	2007-276T04:18:47		000T00:00:02	2007-276T04:18:49	0	0	Non-SPASS			
INMS_050SA_SURVEY004_RIDER	2007-274T04:47:00		000T11:59:50	2007-274T16:46:50	50	2.16	Non-SPASS			
INMS_050TI_T36INBD001_RIDER	2007-274T16:46:50		000T10:55:53	2007-275T03:42:43	100	3.935	Non-SPASS			
INMS_050TI_T36RMPNT001_INMS	2007-275T03:42:43	GMB_E050_Titan36-000T01:00:00	000T00:45:00	2007-275T04:27:43	1498	4.045	Non-SPASS			
INMS_050TI_T36RMPNT002_PRIME	2007-275T04:27:43	GMB_E050_Titan36-000T00:15:00	000T00:30:00	2007-275T04:57:43	1498	2.696	SPASS Rider			
INMS_050TI_T36RMPNT002_INMS	2007-275T04:57:43	GMB_E050_Titan36+000T00:15:00	000T00:45:00	2007-275T05:42:43	1498	4.045	Non-SPASS			
INMS_050TI_T36OUTBD001_RIDER	2007-275T05:42:43	GMB_E050_Titan36+000T01:00:00	000T11:00:00	2007-275T16:42:43	100	3.96	Non-SPASS			
INMS_050SA_SURVEY005_RIDER	2007-275T16:42:43	GMB_E050_Titan36+000T12:00:00	000T11:52:56	2007-276T04:35:39	50	2.139	Non-SPASS			
INMS_050SA_SURVEY006_RIDER	2007-276T04:47:00		002T15:35:00	2007-278T20:22:00	50	11.445	Non-SPASS			
ISS_050TI_FIRNADCMP001_CIRS	2007-274T13:30:43	GMB_E050_Titan36-000T15:12:00	000T05:12:00	2007-274T18:42:43	0	15	SPASS Rider			
ISS_050TI_PHOTOMWAC001_PRIME	2007-274T18:42:43	GMB_E050_Titan36-000T10:00:00	000T01:00:00	2007-274T19:42:43	0	30	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_050TI_EUVFUV001_UVIS	2007-274T19:42:43	GMB_E050_Titan36-000T09:00:00	000T03:49:00	2007-274T23:31:43	0	10	SPASS Rider			
ISS_050TI_MEDRES001_VIMS	2007-275T09:52:43	GMB_E050_Titan36+000T05:10:00	000T02:50:00	2007-275T12:42:43	0	99	SPASS Rider			
ISS_050TI_GLOBMAP001_PRIME	2007-275T12:42:43	GMB_E050_Titan36+000T08:00:00	000T00:40:00	2007-275T13:22:43	0	72	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_050TI_PHOTOMWAC002_PRIME	2007-275T13:22:43	GMB_E050_Titan36+000T08:40:00	000T00:20:00	2007-275T13:42:43	0	30	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_050TI_FIRNADCMP002_CIRS	2007-275T13:42:43	GMB_E050_Titan36+000T09:00:00	000T02:00:00	2007-275T15:42:43	0	20	SPASS Rider			
ISS_050TI_MONITORNA001_PRIME	2007-275T15:42:43	GMB_E050_Titan36+000T11:00:00	000T02:00:00	2007-275T17:42:43	0	276	Prime	ISS_NAC to Titan	NEG_X to Sun	
ISS_050TI_GLOBMAP002_VIMS	2007-275T17:42:43	GMB_E050_Titan36+000T13:00:00	000T01:00:00	2007-275T18:42:43	0	28	SPASS Rider			
ISS_050TI_MIDIRTMAP002_CIRS	2007-275T18:42:43	GMB_E050_Titan36+000T14:00:00	000T08:46:00	2007-276T03:28:43	0	10	SPASS Rider			



# 050TI (T36) CIMS TOL Sorted by Team (con't) 050TI (T36)

MAG_0500T_SURVEY003_PRIME	2007-274T04:47:00		000T19:55:43	2007-275T00:42:43	600	43.046	Non-SPASS			
MAG_050TI_MAGTITAN001_PRIME	2007-275T00:42:43	GMB_E050_Titan36-000T04:00:00	000T08:00:00	2007-275T08:42:43	988	28.454	Non-SPASS			
MAG_0500T_SURVEY005_PRIME	2007-275T08:42:43	GMB_E050_Titan36+000T04:00:00	001T05:36:17	2007-276T14:19:00	600	63.946	Non-SPASS			
MIMI_050SA_SURVEY004_RIDER	2007-274T12:51:00		000T13:51:43	2007-275T02:42:43	900	44.913	SPASS Rider			
MIMI_050TI_T36INBND001_CAPS	2007-275T02:42:43	GMB_E050_Titan36-000T02:00:00	000T01:00:00	2007-275T03:42:43	2000	7.2	SPASS Rider			
MIMI_050TI_T36CLOSE001_CAPS	2007-275T03:42:43	GMB_E050_Titan36-000T01:00:00	000T02:00:00	2007-275T05:42:43	2000	14.4	SPASS Rider			
MIMI_050TI_T36OUTBND001_CAPS	2007-275T05:42:43	GMB_E050_Titan36+000T01:00:00	000T01:00:00	2007-275T06:42:43	2000	7.2	SPASS Rider			
MIMI_050CO_SURVEY003_RIDER	2007-275T06:42:43	GMB_E050_Titan36+000T02:00:00	000T21:57:10	2007-276T04:39:53	900	71.127	Non-SPASS			
MIMI_050CO_SURVEY006_RIDER	2007-276T04:47:01		009T05:18:23	2007-285T10:05:24	900	717.033	Non-SPASS			
MP_049NA_DSS45DOWN003_NA	2007-239T00:00:00		035T23:59:59	2007-274T23:59:59	0	0	Non-SPASS			
MP_050NA_SEQUENCE034_NA	2007-265T20:51:00	E050_SEQUENCE_034+000T00:00:00	038T21:49:00	2007-304T18:40:00	0	0	SPASS Note			
MP_050NA_DSS45DOWN001_NA	2007-274T00:00:00		048T23:59:59	2007-322T23:59:59	0	0	Non-SPASS			
MP_050SA_RPXDESCEN050_NA	2007-274T22:49:40		000T00:00:01	2007-274T22:49:41	0	0	Non-SPASS			
MP_050TI_FLYBYT036_NA	2007-275T04:42:43		000T00:00:01	2007-275T04:42:44	0	0	Non-SPASS			
MP_050SA_RPXASCEN050_NA	2007-275T15:09:14		000T00:00:01	2007-275T15:09:15	0	0	Non-SPASS			
RADAR_050TI_T36WARMUP001_RID	2007-274T18:27:43	GMB_E050_Titan36-000T10:15:00	000T05:26:00	2007-274T23:53:43	474.2	9.276	SPASS Rider			
RADAR_050TI_T36INRAD001_PRIME	2007-274T23:53:43	GMB_E050_Titan36-000T04:49:00	000T02:49:00	2007-275T02:42:43	5216.6	52.897	Prime	NEG_Z to Titan (0.0,0.0,-45.0 deg. offset)	POS_Y to North_Pole_Dir	Use +Y_NTP and +X_NTP for the two polarizations.
RADAR_050TI_T36INSCAT001_PRIME	2007-275T02:42:43	GMB_E050_Titan36-000T02:00:00	000T01:08:00	2007-275T03:50:43	25973.8	105.973	Prime	NEG_Z to Titan	North_Pole_Dir	
RADAR_050TI_T36INALT001_PRIME	2007-275T04:11:56	GMB_E050_Titan36-000T00:30:47	000T00:15:47	2007-275T04:27:43	32211.8	30.505	Prime	NEG_Z to Titan	Titan_SC_RAM	
RADAR_050TI_T36INMSRA001_PRIM	2007-275T04:27:43	GMB_E050_Titan36-000T00:15:00	000T00:30:00	2007-275T04:57:43	236171.5	425.109	Prime	NEG_X to Titan_SC_RAM	NEG_Z to Titan	To do pointing sasf for INMS
RADAR_050TI_T36OUTALT001_PRIM	2007-275T04:57:43	GMB_E050_Titan36+000T00:15:00	000T00:15:00	2007-275T05:12:43	32211.8	28.991	Prime	NEG_Z to Titan (0.0,0.0,-40.0 deg. offset)	NEG_X to Titan_SC_RAM	Turn to -X to NTP (0,0,-45) at the end.
RADAR_050TI_T36OUTSCT001_PRIM	2007-275T05:36:01	GMB_E050_Titan36+000T00:53:18	000T01:06:42	2007-275T06:42:43	25973.8	103.947	Prime	NEG_Z to Titan (0.0,0.0,-45.0 deg. offset)	NEG_X to North_Pole_Dir	
RADAR_050TI_T36OUTRAD001_PRIM	2007-275T06:42:43	GMB_E050_Titan36+000T02:00:00	000T02:50:00	2007-275T09:32:43	5216.6	53.21	Prime	NEG_Z to Titan (0.0,0.0,-45.0 deg. offset)	NEG_X to North_Pole_Dir	Use -X_NTP and -Y_NTP with (0,0,-45) for the two polarizations.
RPWS_050SA_INSURVEY003_PRIME	2007-274T12:51:00		000T02:39:00	2007-274T15:30:00	1310	12.498	Non-SPASS			
RPWS_050SA_OUTSURVEY002_PRIM	2007-274T15:30:00		000T11:12:43	2007-275T02:42:43	1310	52.876	Non-SPASS			
RPWS_050TI_TIIINTRMED001_PRIME	2007-275T02:42:43	GMB_E050_Titan36-000T02:00:00	000T01:30:00	2007-275T04:12:43	3499.8	18.899	Non-SPASS			
RPWS_050TI_TICA001_PRIME	2007-275T04:12:43	GMB_E050_Titan36-000T00:30:00	000T01:00:00	2007-275T05:12:43	30464.3	109.672	Non-SPASS			
RPWS_050TI_TIIINTRMED002_PRIME	2007-275T05:12:43	GMB_E050_Titan36+000T00:30:00	000T01:30:00	2007-275T06:42:43	9749.5	52.647	Non-SPASS			
RPWS_050SA_OUTSURVEY006_PRIM	2007-275T06:42:43	GMB_E050_Titan36+000T02:00:00	001T07:29:10	2007-276T14:11:53	1310	148.49	Non-SPASS			
RSS_050SA_OCCORT002_RSS	2007-276T02:12:00		000T12:07:00	2007-276T14:19:00	0	0	SPASS Rider			
SP_050NA_M70OBSNON276_NA	2007-274T12:51:00		001T15:28:00	2007-276T04:19:00	0	0	Non-SPASS			
SP_050NA_TOSTSEG274_NA	2007-274T12:51:00		002T01:28:00	2007-276T14:19:00	0	0	SPASS Note			
SP_050TI_WAYPTTURN274_PRIME	2007-274T12:51:00		000T00:30:00	2007-274T13:21:00	0	0	New Waypoint	ISS_NAC to Titan	NEG_X to Sun	SP Turn to Waypoint
SP_050TI_DEADTIME274_PRIME	2007-274T13:21:00		000T00:09:43	2007-274T13:30:43	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun	
SP_050TI_WAYPTTURN474_PRIME	2007-274T23:31:43	GMB_E050_Titan36-000T05:11:00	000T00:22:00	2007-274T23:53:43	0	0	New Waypoint	NEG_Z to Titan	POS_X to 205.0/-20.0	
SP_050NA_BEGCUSTOM275_NA	2007-274T23:53:43	GMB_E050_Titan36-000T04:49:00	000T00:00:01	2007-274T23:53:44	0	0	SPASS Note			
SP_050NA_ENDCUSTOM275_NA	2007-275T09:32:43	GMB_E050_Titan36+000T04:50:00	000T00:00:01	2007-275T09:32:44	0	0	SPASS Note			
SP_050TI_WAYPTTURN275_PRIME	2007-275T09:32:43	GMB_E050_Titan36+000T04:50:00	000T00:20:00	2007-275T09:52:43	0	0	New Waypoint	NEG_Y to Titan	NEG_X to Sun	
SP_050TI_DEADTIME276_PRIME	2007-276T03:28:43	GMB_E050_Titan36+000T22:46:00	000T00:22:17	2007-276T03:51:00	0	0	Prime	ISS_NAC to Titan	NEG_X to Sun	
SP_050EA_DLTURN276_PRIME	2007-276T03:51:00		000T00:28:00	2007-276T04:19:00	0	0	Prime	XBAND to Earth	POS_X to NEP	SP Turn to Earth
SP_050EA_M70ARRNON276_PRIME	2007-276T04:19:00		000T02:18:00	2007-276T06:37:00	0	0	Prime	XBAND to Earth	Rolling	
SP_050NA_M34BWGNON276_SP	2007-276T04:19:00		000T10:00:00	2007-276T14:19:00	0	0	Non-SPASS			
SP_050NA_M70ARRNON276_SP	2007-276T04:19:00		000T02:18:00	2007-276T06:37:00	0	0	Non-SPASS			
SP_050EA_M34BWGNON276_PRIME	2007-276T06:37:00		000T07:42:00	2007-276T14:19:00	0	0	Prime	XBAND to Earth	Rolling	
UVIS_050TI_EUVFUV001_PRIME	2007-274T19:42:43	GMB_E050_Titan36-000T09:00:00	000T03:49:00	2007-274T23:31:43	5032	69.14	Prime	NEG_Y to Titan	POS_X to NTP	
UVIS_050SW_IPHSURVEY005_RIDER	2007-276T04:19:00		000T10:00:00	2007-276T14:19:00	76	2.735	Non-SPASS			
VIMS_050TI_MIDIRTMAP002_CIRS	2007-274T13:30:43	GMB_E050_Titan36-000T15:12:00	000T02:12:00	2007-274T15:42:43	3409.1	27	SPASS Rider			
VIMS_050TI_FIRNADCPM001_CIRS	2007-274T15:42:43	GMB_E050_Titan36-000T13:00:00	000T03:00:00	2007-274T18:42:43	2500	27	SPASS Rider			
VIMS_050TI_FIRNADCPM003_ISS	2007-274T18:42:43	GMB_E050_Titan36-000T10:00:00	000T01:00:00	2007-274T19:42:43	9166.7	33	SPASS Rider			
VIMS_050TI_EUVFUV001_UVIS	2007-274T19:42:43	GMB_E050_Titan36-000T09:00:00	000T03:45:00	2007-274T23:27:43	5333.3	72	SPASS Rider			
VIMS_050TI_MEDRES001_PRIME	2007-275T09:52:43	GMB_E050_Titan36+000T05:10:00	000T02:50:00	2007-275T12:42:43	10980.4	112	Prime	ISS_NAC to Titan	NEG_X to Sun	
VIMS_050TI_PHOTOMWAC001_ISS	2007-275T12:42:43	GMB_E050_Titan36+000T08:00:00	000T01:00:00	2007-275T13:42:43	10555.6	38	SPASS Rider			
VIMS_050TI_FIRNADCPM002_CIRS	2007-275T13:42:43	GMB_E050_Titan36+000T09:00:00	000T02:00:00	2007-275T15:42:43	5000	36	SPASS Rider			
VIMS_050TI_MONITORN002_ISS	2007-275T15:42:43	GMB_E050_Titan36+000T11:00:00	000T02:00:00	2007-275T17:42:43	11111.1	80	SPASS Rider			
VIMS_050TI_GLOBMAP002_PRIME	2007-275T17:42:43	GMB_E050_Titan36+000T13:00:00	000T01:00:00	2007-275T18:42:43	10000	36	Prime	ISS_NAC to Titan	NEG_X to Sun	
VIMS_050TI_MIDIRTMAP003_CIRS	2007-275T18:42:43	GMB_E050_Titan36+000T14:00:00	000T08:46:00	2007-276T03:28:43	1996.2	63	SPASS Rider			



# T36 SPASS

Request	Riders	Start (SCET)	Start (Epoch)	Duration	End (SCET)	Primary	Secondary	Comments
Sequence S034, length = 40 ...		2007-265T20:51:00	E050_SEQUENCE_034+000T00:00:00	038T21:49:00	2007-304T18:40:00			
TOST rev 50 Segment		2007-274T12:51:00		002T01:28:00	2007-276T14:19:00			
SP_050TI_WAYPTTURN274_PRIME	M	2007-274T12:51:00		000T00:30:00	2007-274T13:21:00	ISS_NAC to Titan	NEG_X to Sun	SP Turn to Waypoint
<b>NEW WAYPOINT</b>		<b>2007-274T13:21:00</b>		<b>000T10:32:43</b>	<b>2007-274T23:53:43</b>	<b>ISS_NAC to Titan</b>	<b>NEG_X to Sun</b>	
<b>SP_050TI_DEADTIME274_PRIME</b>	<b>M</b>	<b>2007-274T13:21:00</b>		<b>000T00:09:43</b>	<b>2007-274T13:30:43</b>	<b>ISS_NAC to Titan</b>	<b>NEG_X to Sun</b>	
CIRS_050TI_FIRNADCP001_PRIME	C, I, M, R, V	2007-274T13:30:43	GMB_E050_Titan36-000T15:12:00	000T05:12:00	2007-274T18:42:43	CIRS_FP1 to Titan	PIC	
ISS_050TI_PHOTOMWAC001_PRIME	C, M, R, V	2007-274T18:42:43	GMB_E050_Titan36-000T10:00:00	000T01:00:00	2007-274T19:42:43	ISS_NAC to Titan	NEG_X to Sun	
UVIS_050TI_ELVFUV001_PRIME	C, I, M, R, V	2007-274T19:42:43	GMB_E050_Titan36-000T09:00:00	000T03:49:00	2007-274T23:31:43	NEG_Y to Titan	POS_X to NTP	
SP_050TI_WAYPTTURN474_PRIME	M, R	2007-274T23:31:43	GMB_E050_Titan36-000T05:11:00	000T00:22:00	2007-274T23:53:43	NEG_Z to Titan	POS_X to 205.0/-20.0	
<b>NEW WAYPOINT</b>		<b>2007-274T23:53:43</b>		<b>000T09:59:00</b>	<b>2007-275T09:52:43</b>	<b>NEG_Z to Titan</b>	<b>POS_X to 205.0/-20.0</b>	
<b>Begin Custom Period</b>		<b>2007-274T23:53:43</b>	<b>GMB_E050_Titan36-000T04:49:00</b>	<b>000T00:00:01</b>	<b>2007-274T23:53:44</b>	<b>NEG_Z to Titan</b>	<b>POS_X to 205.0/-20.0</b>	
RADAR_050TI_T36INRAD001_PRIME	M	2007-274T23:53:43	GMB_E050_Titan36-000T04:49:00	000T02:49:00	2007-275T02:42:43	NEG_Z to Titan (0.0,0.0,-45.0 deg. offset)	POS_Y to North_Pole_Dir	Pick up at NEG_Z to Titan, POS_X to 205.0/-20.0; Hand off at NEG_Z to Titan, POS_X to North_Pole_Dir. Use +Y_NTP and +X_NTP for the two polarizations.
RADAR_050TI_T36INSCAT001_PRIME	M	2007-275T02:42:43	GMB_E050_Titan36-000T02:00:00	000T01:08:00	2007-275T03:50:43	NEG_Z to Titan	POS_X to North_Pole_Dir	Pick up at NEG_Z to Titan, POS_X to North_Pole_Dir; Hand off at NEG_Z to Titan, POS_X to North_Pole_Dir.
ENGR_050SC_RADRCS275_PPS	M	2007-275T03:50:43	GMB_E050_Titan36-000T00:52:00	000T00:21:13	2007-275T04:11:56	NEG_Z to Titan	POS_X to North_Pole_Dir	Pick up at NEG_Z to Titan, POS_X to North_Pole_Dir; Hand off at NEG_Z to Titan, POS_X to North_Pole_Dir. Deadband (2, 2, 20)
RADAR_050TI_T36INALT001_PRIME	M	2007-275T04:11:56	GMB_E050_Titan36-000T00:30:47	000T00:15:47	2007-275T04:27:43	NEG_Z to Titan	NEG_X to Titan_SC_RAM	Pick up at NEG_Z to Titan, POS_X to North_Pole_Dir; Hand off at NEG_Z to Titan, NEG_X to Titan_SC_RAM.
RADAR_050TI_T36INMSRA001_PRIME	M	2007-275T04:27:43	GMB_E050_Titan36-000T00:15:00	000T00:30:00	2007-275T04:57:43	NEG_X to Titan_SC_RAM	NEG_Z to Titan	Pick up at NEG_Z to Titan, NEG_X to Titan_SC_RAM; Hand off at NEG_Z to Titan (0.0,0.0,-40.0 deg. offset), NEG_X to Titan_SC_RAM.
RADAR_050TI_T36OUTALT001_PRIME	M	2007-275T04:57:43	GMB_E050_Titan36+000T00:15:00	000T00:15:00	2007-275T05:12:43	NEG_Z to Titan (0.0,0.0,-40.0 deg. offset)	NEG_X to Titan_SC_RAM	Pick up at NEG_Z to Titan (0.0,0.0,-40.0 deg. offset), NEG_X to Titan_SC_RAM; Hand off at NEG_Z to Titan (0.0,0.0,-45.0 deg. offset), NEG_X to North_Pole_Dir. Turn to -X to NTP (0,0,45) at the end.
ENGR_050SC_RADRWBIAS275_PPS	M	2007-275T05:12:43	GMB_E050_Titan36+000T00:30:00	000T00:23:18	2007-275T05:36:01	NEG_Z to Titan (0.0,0.0,-45.0 deg. offset)	NEG_X to North_Pole_Dir	Pick up at NEG_Z to Titan (0.0,0.0,-45.0 deg. offset), NEG_X to North_Pole_Dir; Hand off at NEG_Z to Titan (0.0,0.0,-45.0 deg. offset), NEG_X to North_Pole_Dir.
RADAR_050TI_T36OUTSCT001_PRIME	M	2007-275T05:36:01	GMB_E050_Titan36+000T00:53:18	000T01:06:42	2007-275T06:42:43	NEG_Z to Titan (0.0,0.0,-45.0 deg. offset)	NEG_X to North_Pole_Dir	Pick up at NEG_Z to Titan (0.0,0.0,-45.0 deg. offset), NEG_X to North_Pole_Dir; Hand off at NEG_Z to Titan (0.0,0.0,-45.0 deg. offset), NEG_X to North_Pole_Dir.
RADAR_050TI_T36OUTRAD001_PRIME		2007-275T06:42:43	GMB_E050_Titan36+000T02:00:00	000T02:50:00	2007-275T09:32:43	NEG_Z to Titan (0.0,0.0,-45.0 deg. offset)	NEG_X to North_Pole_Dir	Pick up at NEG_Z to Titan (0.0,0.0,-45.0 deg. offset), NEG_X to North_Pole_Dir; Hand off at NEG_Z to Titan, POS_X to 205.0/-20.0. Use -X_NTP and -Y_NTP with (0,0,-45) for the two polarizations.
<b>End Custom Period</b>		<b>2007-275T09:32:43</b>	<b>GMB_E050_Titan36+000T04:50:00</b>	<b>000T00:00:01</b>	<b>2007-275T09:32:44</b>	<b>NEG_Z to Titan</b>	<b>POS_X to 205.0/-20.0</b>	
SP_050TI_WAYPTTURN275_PRIME		2007-275T09:32:43	GMB_E050_Titan36+000T04:50:00	000T00:20:00	2007-275T09:52:43	NEG_Y to Titan	NEG_X to Sun	
<b>NEW WAYPOINT</b>		<b>2007-275T09:52:43</b>		<b>001T04:26:17</b>	<b>2007-276T14:19:00</b>	<b>NEG_Y to Titan</b>	<b>NEG_X to Sun</b>	
VIMS_050TI_MEDRES001_PRIME	C, I	2007-275T09:52:43	GMB_E050_Titan36+000T05:10:00	000T02:50:00	2007-275T12:42:43	ISS_NAC to Titan	NEG_X to Sun	
ISS_050TI_GLOBMAP001_PRIME	C, V	2007-275T12:42:43	GMB_E050_Titan36+000T08:00:00	000T00:40:00	2007-275T13:22:43	ISS_NAC to Titan	NEG_X to Sun	
ISS_050TI_PHOTOMWAC002_PRIME	C, V	2007-275T13:22:43	GMB_E050_Titan36+000T08:40:00	000T00:20:00	2007-275T13:42:43	ISS_NAC to Titan	NEG_X to Sun	
CIRS_050TI_FIRNADCP002_PRIME	C, I, V	2007-275T13:42:43	GMB_E050_Titan36+000T09:00:00	000T02:00:00	2007-275T15:42:43	CIRS_FP1 to Titan	PIC	
ISS_050TI_MONITORNA001_PRIME	C, V	2007-275T15:42:43	GMB_E050_Titan36+000T11:00:00	000T02:00:00	2007-275T17:42:43	ISS_NAC to Titan	NEG_X to Sun	
VIMS_050TI_GLOBMAP002_PRIME	I	2007-275T17:42:43	GMB_E050_Titan36+000T13:00:00	000T01:00:00	2007-275T18:42:43	ISS_NAC to Titan	NEG_X to Sun	
CIRS_050TI_MIDIRTMAP002_PRIME	C, I, R, V	2007-275T18:42:43	GMB_E050_Titan36+000T14:00:00	000T08:46:00	2007-276T03:28:43	CIRS_FP2 to Titan	POS_X to North_Pole_Dir	
<b>SP_050TI_DEADTIME276_PRIME</b>	<b>R</b>	<b>2007-276T03:28:43</b>	<b>GMB_E050_Titan36+000T22:46:00</b>	<b>000T00:22:17</b>	<b>2007-276T03:51:00</b>	<b>ISS_NAC to Titan</b>	<b>NEG_X to Sun</b>	
SP_050EA_DLTURN276_PRIME	R	2007-276T03:51:00		000T00:28:00	2007-276T04:19:00	XBAND to Earth	POS_X to NEP	SP Turn to Earth
SP_050EA_M70ARRNON276_PRIME	C, R	2007-276T04:19:00		000T02:18:00	2007-276T06:37:00	XBAND to Earth	Rolling	
SP_050EA_M34BWGNON276_PRIME	C, R	2007-276T06:37:00		000T07:42:00	2007-276T14:19:00	XBAND to Earth	Rolling	





# 050TI 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							
			START (Mb)	SCI (Mb)	HK+E (Mb)	TOTAL (Mb)	CPACTY (Mb)	MRGN (Mb)	OPNAV (Mb)	RECORDED	PLAYBACK						
											SCI (Mb)	ENGR (Mb)	TOTAL (Mb)	CPACTY (Mb)	MARGN (Mb)	NET_MARGN (Mb)	NET_MARGN (%)
SP_050EA_M70ARRNON276_PRIME	276 04:19	276 06:37	0	3296	146	3443	3569	127	0	45	14	3501	833	-2668	0	0%	2668
SP_050EA_M34BWGNON276_PRIME	276 06:37	276 14:19	2668	0	0	2668	3569	901	0	189	45	2903	533	-2370	0	0%	2369

XD TWT agreed to accept 2414Mb

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	274 12:51	276 04:19	250.1	102.3	306.6	21.5	590.0	96.4	143.7	801.1	348.5	69.1	524.0	0.0	11.0	3264.3
OBSERVATION_SI	274 12:51	276 04:19	0.0	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0
SP_050EA_M70ARRNON276_PRIME	276 04:19	276 06:37	8.3	1.2	11.5	0.4	0.0	5.0	7.1	0.0	10.8	0.6	0.0	0.0	0.0	44.9
SP_050EA_M34BWGNON276_PRIME	276 06:37	276 14:19	27.7	4.2	74.9	1.4	0.0	16.6	24.9	0.0	35.8	2.1	0.0	0.0	0.0	187.6
DAILY TOTAL SCIENCE	274 12:51	276 14:19	286.1	107.7	406.0	23.2	590.0	118.0	175.7	801.1	395.1	71.9	524.0	0.0		
TOTAL RECORDED (OPNAV data not included)			286.1	107.7	406.0	23.2	590.0	118.0	175.7	801.1	395.1	71.9	524.0	0.0		



# Telemetry Modes

## TELEMETRY MODE REPORT

EPOCH RELATIVE	UTC	DURATION	TELEMETRY MODE	REQUEST
	2007-274T12:51:00.000	05:36:43	S_N_ER_3	SP_050NA_M70OBSNON276_NA
GMB_E050_Titan36-000T10:15:00	2007-274T18:27:43.000	00:15:00	S_N_ER_5A	SP_050NA_M70OBSNON276_NA
GMB_E050_Titan36-000T10:00:00	2007-274T18:42:43.000	05:11:00	S_N_ER_3	SP_050NA_M70OBSNON276_NA
GMB_E050_Titan36-000T04:49:00	2007-274T23:53:43.000	09:39:00	S_N_ER_8	SP_050NA_M70OBSNON276_NA
GMB_E050_Titan36+000T04:50:00	2007-275T09:32:43.000	18:46:17	S_N_ER_3	SP_050NA_M70OBSNON276_NA
	2007-276T04:19:00.000	00:18:00	RTE_N_SPB_110600	SP_050EA_M70ARRNON276_PRIME
	2007-276T04:37:00.000	02:00:00	RTE_N_SPB_124425	SP_050EA_M70ARRNON276_PRIME
	2007-276T06:37:00.000	04:30:00	RTE_N_SPB_27650	SP_050EA_M34BWGNON276_PRIME
	2007-276T11:07:00.000	02:15:00	RTE_N_SPB_22120	SP_050EA_M34BWGNON276_PRIME
	2007-276T13:22:00.000	00:57:00	RTE_N_SPB_14220	SP_050EA_M34BWGNON276_PRIME



# DSN Requests

CASSINI DOWNLINK/DSN COVERAGE SUMMARY for 050TI\_T36\_2007\_05\_15.apf on 2007-May-15 14:03:42  
(+ = 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
M70ARRNON276	276T04:19-06:37	276T05:42-08:00	02:18	110,124,142	55	276T04:19-14:19	276T05:40-15:45	10:05	105/15	TP ARR R	N750
				^-- and also -->	63*	276T04:19-06:37	276T05:40-08:00	02:20	60/15	TP ARR	N003
+M34BWGNON276	276T06:37-14:19	276T08:00-15:42	07:42	27,22,14	55	276T04:19-14:19	276T05:40-15:45	10:05	105/15	TP ARR R	N750



- Maintenance Waiver requested for DSS63 pass.
- CRC run indicates that there is a telemetry mode change during an ISS observation at 2007-274T13:30:43 for ISS\_050TI\_FIRNADCMP001\_CIRS. In fact, there is no telemetry mode change taking place at that time. The ISS observation does specify S\_N\_ER\_3 as the telem mode, which is the telem mode that is chosen by the SP Observation block; apparently the CRC is falsely triggering on the telemetry mode field being filled in by ISS as a telemetry change.

- SMT run finds two spurious problems:

```
SP_SMT_1      RADAR  2007-274T18:27:43.000  RADAR_050TI_T36WARMUP001_RIDER  Found an activity whose data are
NOT recorded in this telemetry mode "S_N_ER_3" commanded at 2007-274T18:42:43.000. Volume of 8.849318 Mb not
given data policing space.          Ensur
e compatibility between this activity and telemetry mode.
SP_SMT_2      RADAR  2007-275T06:42:43.000  RADAR_050TI_T36OUTRAD001_PRIME  Found an activity whose data are
NOT recorded in this telemetry mode "S_N_ER_3" commanded at 2007-275T09:32:43.000. Volume of 2.049627e-10 Mb
not given data policing space.      Ensur
e compatibility between this activity and telemetry mode.
```

These are not a problem. RADAR only needs S\_N\_ER\_5a for first 15 minutes (which is what is in the SP Obs request). For second RADAR activity, S\_N\_ER\_3 start time is the end time of the RADAR observation--note small volume of data that is not being recorded.



# SPLAT Report

Tracking Number	Status	Priority	Distribution	Must Do	Cost	Identifying Team or Code	Working Teams	Time	Request/Action Name	Lien or Action	Proposed Solution
S34000317	Open		TOST_050TI_T36-Aftermarket, 2XD_050_051-Aftermarket	N		SP	SP	2007-276T14:19:00	carryover data	At the end of S34 SOP implementation the carry over data from Tost 50 (T36) into XD 50/51 was 2198 Mb. S34 as a sequence can handle this carryover.	Remember during aftermarket



**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 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		
	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.	C		
	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?	Yes	

(DOUBLE-CLICK TO MAKE CHANGES)