

CASSINI TOST_T125 SEGMENT

Rev 250 Handoff Package

Segment Boundary 2016-334T05:28:00 – 2016-336T09:13:00

3 June 2016

Rudy Boehmer

SMT Report, Timeline, SPASS

Science Highlights

Notes & Liens

This document has been reviewed and determined not to contain export controlled technical data

SMT Report

TOST T125

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

			OBSERVATION_PERIOD						DOWNLINK_PASS								
			P4 P5					RECO	RDED			PLAYB	ACK				
DOWNLINK PASS NAME	Start	End	START	SCI	HK+E	TOTAL	CPACTY	MRGN	OPNAV	SCI	ENGR	TOTAL	CPACTY	MARGN	NET_MA	ARGN	CAROVR
	doy hh:mm	doy hh:mm	(Mb)	(Mb)	(Mb)	(Mb)	(Mb)	(Mb)	(Mb)	(Mb)	(Mb)	(Mb)	(Mb)	(Mb)	(Mb)	(%)	(Mb)
SP_250EA_C34BWGNON335_PRIME	335 20:13	336 02:26	0	1775	164	1938	3322	1384	0	103	37	2078	384	-1695	0	08	1695
SP_251EA_C70METNON336_PRIME	336 02:26	336 07:13	1695	0	0	1695	3322	1627	0	94	28	1816	1314	-503	0	08	502
SP_251EA_M70METNON336_PRIME	336 07:13	336 09:13	502	0	0	502	3322	2820	0	308	12	822	346	-477	0	08	476

Note: accepting 48 Mb carryover from preceding SOST_250

SSR PARTITION SIZE SUMMARY - SELECTED SSR CONFIGURATION: DOUBLE

		SSR A/B		
OBSERVATION PERIOD	P4 Size (Frames)	P5 Size (Frames)	P6 Size (Frames)	
SP_250NA_OBSERV334_NA	188954	10	38863	

DATA VOLUME REPORT --- TRANSFER FRAME OVERHEAD NOT INCLUDED

Science Planning & Sequence Team

Event	Star doy	t 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 SP_250EA_C34BWGNON335_PRIME SP_251EA_C70METNON336_PRIME SP_251EA_M70METNON336_PRIME DAILY TOTAL SCIENCE	334 335 336 336 336 334	05:28 20:13 02:26 07:13 05:28	335 336 336 336 336 336	20:13 02:26 07:13 09:13 09:13	0.0 0.0 0.0 0.0 0.0	73.1 11.7 9.0 3.8 97.6	312.8 56.3 51.7 21.6 442.4	24.0 2.2 1.7 0.7 28.7	470.0 0.0 0.0 470.0	41.6 5.5 4.3 3.3 54.7	53.5 6.2 10.3 4.3 74.4	0.0 0.0 0.0 0.0 0.0	346.1 20.4 15.7 6.6 388.6	37.6 0.0 0.0 1.1 38.7	400.0 0.0 0.0 0.0 400.0	0.0 0.0 0.0 0.0 0.0	162.0 0.0 0.0 263.7 425.6	1920.6 102.4 92.7 305.1
TOTAL RECORDED (OPNAV data no	ot in	cluded)	,	CAPS (Mb) 	CD (M 97	0A (b)	CIRS (Mb)	INMS (Mb) 28.7	ISS (Mb) 470.0	MAG (Mb) 54.7	MIMI (Mb) 74.4	I RA) (! 4 0	DAR F Mb) (.0 38	2PWS Mb) 8.6	UVIS (Mb) 38.7	VIMS (Mb) 400.0	PROBE (Mb)	

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This document has been reviewed and determined not to contain export controlled technical data

T125 TOST Master Timeline

250TI_T125 3158.4

Start Time	End Time	Prime Activity	Obs. Detail	Op Mode	TLM Mode	Comments
2016-334T05:28:00	2016-334T06:08:00	SP Turn to WP	NEG_Y to Titan, NEG_X to NTP	DFPW Normal	S_N_ER_3	
2016-334T06:08:00	C/A-15:57:20	OD Uncertainty Dead Time				
C/A-15:57:20	-14:00	VIMS	B (TC1a, TC1b, TN2c)	DFPW Normal	S_N_ER_3	
-14:00	-09:00	VIMS	V (TC1a, TC1b, TN2c)	DFPW Normal	S_N_ER_3	
-09:00	-05:00	VIMS	l (TC1a, TC1a, TN2c)	DFPW Normal	S_N_ER_3	
-05:00	-02:15	VIMS	Y (TC1a, TC1b, TN1a, TN2c)	DFPW Normal	S_N_ER_3	
-02:15	-00:30	ISS	TN1a, hand off at wp	DFPW Normal	S_N_ER_3	Hotei
Begin custom period						
-00:30	0	VIMS	TC1a, TN1a	DFPW Normal	S_N_ER_3	
2016-334T22:14:32		CLOSEST APPROACH	NEG_Y to Titan (TC2a)			
0	+00:15	VIMS	TC1a, TN1a	DFPW Normal	S_N_ER_3	VIMS turning to CIRS attitude
+00:15	+00:45	CIRS	TN1c	DFPW Normal	S_N_ER_3	FIRLMB at 55N and 10S
+00:45	+01:15	CIRS	TN1c	DFPW Normal	S_N_ER_3	FIRLMB at 55N and 10S
+01:15	+02:15	CIRS	TN1c	DFPW Normal	S_N_ER_3	FIRLMB at 55N and 10S
+02:15	+05:00	CIRS	T (TN2c (surface temperature))	DFPW Normal	S_N_ER_3	VIMS Collaborative Riders at +02:15 and +04:45
+05:00	+09:00	CIRS	R (TN1c or Tc1b, decided in implementation)	DFPW Normal	S_N_ER_3	
+09:00	+13:00	CIRS	N1 (Tc1b, TN1c aerosol)	DFPW Normal	S_N_ER_3	
+13:00	C/A+19:33:28	CIRS	M3 (Tc1b (TN1c on outbound))	DFPW Normal	S_N_ER_3	ISS Collaborative Rider
End custom period						
C/A+25:46:28	2016-336T00:16:00	OD Uncertainty Dead Time				
2016-336T00:16:00	2016-336T00:56:00	SP Turn to Earth for downlink	XBAND to Earth, NEG_Y to Saturn Offset: (0.0, 0.0, -9.5 deg)	DFPW Normal	S_N_ER_3	
2016-336T00:56:00	2016-336T02:26:00	Y-Bias window		DFPW Normal	S_N_ER_3	
2016-335T20:13:00	2016-336T02:26:00	Canberra 34M	D/L + concurrent RSS Solar Conjuction Experiment#13	RSS_K_RWAF	RTE_N_SPB	
2016-336T02:26:00	2016-336T07:13:00	Canberra 70M	D/L + concurrent RSS Solar Conjuction Experiment#13	RSS2RWAF	RTE_N_SPB	
2016-336T07:13:00	2016-336T09:13:00	Madrid 70M	D/L + concurrent RSS Solar Conjuction Experiment#13	RSS2RWAF	RTE_N_SPB	Dual playback for VIMS, -00:30 to +00:15

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T125 TOST SPASS

TOST T125

Support 27 days Spin 28 Jung h - 72 days Spin 38 Jung h -	Request	Riders	Start (SCET)	Start (Epoch)	Duration	End	Primary	Secondary	Comments
Theam May 1.23 Magnetic No.	Sequence S97, length = 72 days		2016-328T05:43:00		072T01:22:00	2017-034T07:05:00			
Spin Sympoly	Titan Flyby T125 Segment		2016-334T05:28:00		002T03:45:00	2016-336T09:13:00			
NAW WATCHIT 2015-31116.000.000 001112.300 2016-331116.4200 NGC YU THAN NGC YU THAN NGC YU THAN NGC YU THAN </td <td>SP_250TI_WAYPTTURN334_PRIME</td> <td></td> <td>2016-334T05:28:00</td> <td></td> <td>000T00:40:00</td> <td>2016-334T06:08:00</td> <td>NEG_Y to Titan</td> <td>NEG_X to NTP</td> <td></td>	SP_250TI_WAYPTTURN334_PRIME		2016-334T05:28:00		000T00:40:00	2016-334T06:08:00	NEG_Y to Titan	NEG_X to NTP	
Sp. 2001. INCLUSION SPAND. No. No. No. No. No. No. No. No. No. NVS. 2001. GLOBANCOR PIMAL C. I. 2005-59178-1123 MMS. 250 TTMA 112-500715-230 0001157.23 2005-591713-1123 MMS. 150 TTMA 112-500715-200 0001100.20 2005-591713-1123 MMS. 150 TTMA 112-500716-200 000110.20 2005-591713-123 MMS. 150 TTMA 112-500716-200 000110.20 2005-591713-123 MMS. 150 TTMA 112-500716-200 000110.20 2005-591713-123 MMS. 150 TTMA 112-500716-200 0000110.20 <td>NEW WAYPOINT</td> <td></td> <td>2016-334T06:08:00</td> <td></td> <td>001T12:35:00</td> <td>2016-335T18:43:00</td> <td>NEG_Y to Titan</td> <td>NEG_X to NTP</td> <td></td>	NEW WAYPOINT		2016-334T06:08:00		001T12:35:00	2016-335T18:43:00	NEG_Y to Titan	NEG_X to NTP	
VMX 52 070 CLOBMAND FMME CL 2016 330706.212.0 MME 200 TTAM 122-000715.200 2015-33170.312.0 VMX 51 R0 Taam MCX X h0 TP Accord (C) X h0 TP VMX 52 070 CMX 5000 FMME CL 206 53170.312.0 VMX 5000 FMME CL 2016 53170.312.0 VMX 5000 FMME CL 2016 53170.214.00 SVX FM FM SV	SP_250TI_DEADTIME334_PRIME		2016-334T06:08:00		000T00:09:12	2016-334T06:17:12	NEG_Y to Titan	NEG_X to NTP	
VINIS _2001_INCREMENDO_PRIME C1 2016 334708.4122 MMR_S 2001_INCREMENDO_PRIME C1 2016 334712.4123 VINIS _2001_INCREMENDO_PRIME VINIS _2001_INCREMENDO	VIMS_250TI_GLOBMAP001_PRIME	C, I	2016-334T06:17:12	GMB_E250_TITAN_T125-000T15:57:20	000T01:57:20	2016-334T08:14:32	VIMS_IR to Titan	NEG_X to NTP	
VMX_2001_PLODESCOL_PRIME C, I Disl-3471.314.32 GMB_C200_TRAM_D2: SOUTH ALL 2000TO: SOUD DOTE-SOUD DOTE-SOUD VMX_S IR to Tran. MEG_X No MTP KS_2001_REMANDOL_PRIME C, I Disl-3171.314.33 GMB_C200_TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 34471.443.3 KS_NAC In Tran. MEG_X No MTP KS_2001_REMANDOL_PRIME C, IM Disl-3171.413.3 GMB_C200_TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 34471.443.3 KS_NAC In Tran. MEG_X No MTP KS_2001_REMANDOL_PRIME C, IM Disl-3171.413.3 GMB_C200_TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 34472.343.3 KES_X NO TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 34772.343.3 KES_X NO TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 34772.343.3 KES_X NO TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 34772.343.3 KES_X NO TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 34772.343.3 KES_X NO TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 34772.343.3 KES_X NO TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 34772.343.3 KES_X NO TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 34772.343.3 KES_X NO TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 34772.343.3 KES_X NO TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 34772.343.3 KES_X NO TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 34772.343.3 KES_X NO TRAM_T25: SOUTH ALL 2000TO: SOUD ZOID 3477	VIMS_250TI_GLOBMAP002_PRIME	C, I	2016-334T08:14:32	GMB_E250_TITAN_T125-000T14:00:00	000T05:00:00	2016-334T13:14:32	VIMS_IR to Titan	NEG_X to NTP	
VMDS. 35071 REGUMANDQL PMME C. I. D016-33071714/32 GMDE 220 TTMA T125 00070.0000 D07024/500 VMDS. RK 0 Thman NEG. X to NTP Secon REGUMANDL PMME VMD 015-311714/32 GMDE 220 TTMA T125 00070.0000 2016-311714/31 Secon TMA Pailup at Secon Pailup at Second Pailup at Second <t< td=""><td>VIMS_250TI_MEDRES001_PRIME</td><td>C, I</td><td>2016-334T13:14:32</td><td>GMB_E250_TITAN_T125-000T09:00:00</td><td>000T04:00:00</td><td>2016-334T17:14:32</td><td>VIMS_IR to Titan</td><td>NEG_X to NTP</td><td></td></t<>	VIMS_250TI_MEDRES001_PRIME	C, I	2016-334T13:14:32	GMB_E250_TITAN_T125-000T09:00:00	000T04:00:00	2016-334T17:14:32	VIMS_IR to Titan	NEG_X to NTP	
Sis 250T RECMANDOL PRIME C.M. V 2016-331714432 KME 250 TITAL T125-000703.000 D00001200000 2016-331714433 KME 240 TITAL KME 240 TITAL Regin durin Preided C.M. V 2016-331714432 KME 250 TITAL T125-000703.000 D0000-000 2016-331714433 KME 240 TITAL T125-000703.000 D0000-000 2016-331714433 KME 240 TITAL T125-000703.000 D0000-000 2016-331724433 KME 240 TITAL T125-000703.000 D0000-000 2016-331724433 KME 240 TITAL T125-000700.000 2016-331724433 KME 240 TITAL T125-000700.000 2016-331722433 KME 240 TITAL T125-000700.000 2016-331724433 KME 240 TITAL T125-000700.000 2016-331724430 KME 240 TITAL T1	VIMS_250TI_REGMAP001_PRIME	C, I	2016-334T17:14:32	GMB_E250_TITAN_T125-000T05:00:00	000T02:45:00	2016-334T19:59:32	VIMS_IR to Titan	NEG_X to NTP	
Dem Dep Highels Service Out	ISS_250TI_REGMAP001_PRIME	C, M, V	2016-334T19:59:32	GMB_E250_TITAN_T125-000T02:15:00	000T01:45:00	2016-334T21:44:32	ISS_NAC to Titan	NEG_X to NTP	
Begin Quing Printed OILE 34271/44.3 GRUE 220/TLAN, TL25 000700 2000, 000700040 2016-334721-433 Inclusion Pickup at KES_VP Tran, NES_X to 78, Pickup at KES_VP Tran, NES_X to 77, Pickup at KES_VP Tran, NES_X to 7	Begin Dual Playback Science		2016-334T21:44:32	GMB_E250_TITAN_T125-000T00:30:00	000T00:00:01	2016-334T21:44:33			
VIMS_250T_HRES00_PRIME C, M 2016-334T21:44:32 CMM E 250_TTAN_T125 000T0:03:00 2016-334T22:433 PR: Ump A MEG_X to 178, PE1 to Tran, NEG_X to 28/022.0 2016 112 STTAN Outbound 2016-334T22:44:32 CMM E 250_TTAN_T125:000T0:03:00 2016-334T22:433 PR: Ump A TRAN, NEG_X to 28/022.0 CRS_250T_REUMBT002_PRIME V 2016-334T22:432 CMM E 250_TTAN_T125:000T0:03:00 2016-334T22:932 CRS_5 PE1 to Tran, NEG_X to 28/022.0 CRS_250T_REUMBT002_PRIME V 2016-334T22:932 CRS_5 PE1 to Tran, NEG_X to 28/022.0 PR: Ump A CRS_5 PE1 to Tran, NEG_X to 28/022.0 CRS_250T_REUMBT002_PRIME V 2016-334T22:932 CRS_5 PE1 to Tran, NEG_X to 28/02.0 PR: Ump A CRS_5 PE1 to Tran, NEG_X to 28/02.0 CRS_250T_REUMBER002_PRIME V 2016-334T22:932 CRS_5 PE1 to Tran, NEG_X to MEG_X to	Begin Custom Period		2016-334T21:44:32	GMB_E250_TITAN_T125-000T00:30:00	000T00:00:01	2016-334T21:44:33			
VIMS_2001_HIRESOU_PRIME C, M. 20634722.432 OMS_200_00000 20634722.2433 MKS_R to Than NEC_X to 28.0/22.0 off at CRS_P1 to Than, NEC_X to 28.0/22.0 CRID Dial Playback Scenec. 2016/33472.2432 OWN_20000000 20634722.2433 OWN_20000000 20634722.2433 Pick up at CRS_P1 to Than, NEC_X to 28.0/22.0 CRID Dial Playback Scenec. 2016/33472.2432 OWN_200000000 20633472.2433 Pick up at CRS_P1 to Than, NEC_X to 28.0/22.0, Hand off at CRS_P1 to Than, NEC_X to 28.0/22.0, Hand off at CRS_P1 to Than, NEC_X to 28.0/22.0, Hand off at CRS_P1 to Than, NEC_X to 28.0/22.0, Hand off at CRS_P1 to Than, NEC_X to TRAN, TL2-HOUTDIS 00 20633472.2432 CRS_P1 to Than, NEC_X to 17.0, NEC_X to 28.0/22.0, Hand off at CRS_P1 to Than, NEC_X to TRAN, TL2-HOUTDIS 00 20633472.2432 CRS_P1 to Than, NEC_X to TRAN, TL2-HOUTDIS 00 206333702.432 CRS_P1 to Than, NEC_X to TRAN, TL2-HOUTDIS 00 206333702.432 CRS_P1 to Than, NEC_X to TRAN, TL2-HOUTDIS 00 206333702.432 CRS_P1 to Than, NEC_X to TRAN, TL2-HOUTDIS 00 206333702.432 CRS_P1 to Than, NEC_X to TRAN, TL2-HOUTDIS 00 206333702.432 CRS_P1 to Than, NEC_X to TRAN, TL2-HOUTDIS 00 2066333702.432 CRS_P1 to Than, NEC_X to TRAN, TL2-HOUTDIS 00 2066333702.432 CRS_P1 to Than, NEC_X to TRAN, TL2-HOUTDIS 00 206333702.432 CRS_P1 to Than, NEC_X to TRAN, TL2-HOUTDIS 00 2066333702.432 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Pick up at NEG_Y to Titan, NEG_X to NTP; Hand</td></th<>									Pick up at NEG_Y to Titan, NEG_X to NTP; Hand
25011 (112): 31TAA Outbound 2016-34722:14.32 000700-0001 2016-34722:24:33 0 26011 (112): 31TAA Outbound 2016-34722:24:32 0.001700-0001 2016-34722:24:33 0 PR	VIMS_250TI_HIRES001_PRIME	C, I, M	2016-334T21:44:32	GMB_E250_TITAN_T125-000T00:30:00	000T00:45:00	2016-334T22:29:32	VIMS_IR to Titan	NEG_X to 28.0/22.0	off at CIRS_FP1 to Titan, NEG_X to 28.0/22.0.
Card Data Paybox Science 20163347222932 GMB E250 TTAM, T125+000T001500 201063347225932 CIRS, FP1 to Titan, NEC, X to Pick up at CIRS, FP1 to Titan, NEC, X to CIRS, ZDDT, FIRLMBTODZ, PRIME M, V 20163347225932 GMB E250 TTAM, T125+000T003500 20163347225932 CIRS, FP1 to Titan, NEC, X to 280/220, Hand off at CIRS, FP1 to Titan, NEC, X to CIRS, ZDDT, FIRLMBARR002, PRIME M, V 20163347225932 GMB E250 TTAM, T125+000T003500 20163347225932 CIRS, FP1 to Titan, NEC, X to Pick up at CIRS, FP1 to Titan, NEC, X to CIRS, ZDDT, FIRLMBARR002, PRIME M, V 20163347232932 GMB E250 TTAM, T125+000T013:00 20163357002932 CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at CIRS, FP1 to Titan, NEC, X to MTP, CIRM off at NEC, Y to Titan, VIE2, V to MTP, CIRM off at N	250TI (t) T125 TITAN Outbound		2016-334T22:14:32		000T00:00:01	2016-334T22:14:33			
CRE	End Dual Playback Science		2016-334T22:29:32	GMB_E250_TITAN_T125+000T00:15:00	000T00:00:01	2016-334T22:29:33			
CIRS_250TL_FIRLMSTOOL_PRIME W. V 2016-33472:23-932 CIRS_FP1 to Tran., PIC. PIC 22.072.0; Hand_FIRL_RD, PIC. CIRS_250TL_FIRLMSAEROOL_PRIME W. V 2016-33472:23-932 CIRS_FP1 to Tran., PIC. PIC 26.072.0; Hand_FIRL_RD, PIC. CIRS_250TL_FIRLMSWTROOL_PRIME W. V 2016-33472:23-932 GMB_E250_TTRAN_T125+000T01:15:00 000T01:00:00 2016-33472:32-932 CIRS_FP1 to Tran., PIC. PIC CIRS_FP1 to Tran., PIC. CIRS_250TL_FIRLMSWTROOL_PRIME W. 2016-335T02:932 GMB_E250_TTRAN_T125+000T01:15:00 000T01:00:00 2016-335T01:14:32 CIRS_FP1 to Tran., PIC. CIRS_FP1 to T									Pick up at CIRS_FP1 to Titan, NEG_X to
CRS_250T_FRI.MBAER002_PRIME M. V 2016-33472.329.3 GMB_252_0_TTAN_T125+000T01.5:00 000T0:0:0:0 2016-33472.329.32 GRS_FP1 to Titan, PLC CRS_FP1 to Titan, PLC CRS_250T_FRI.MBWTR001_PRIME M. V 2016-33472.329.32 GMB_252_0_TTAN_T125+000T01.5:00 000T0:0:0:0 2016-335T00:29.32 GRS_FP1 to Titan PLC CRS_FP1 to Titan, PLC CRS_250T_FRI.MBWTR001_PRIME V 2016-335T00:29.32 GRS_FP1 to Titan PLC CRS_FP1 to Titan, PLC CRS_250T_FRI.MBWTR001_PRIME V 2016-335T00:29.32 GRS_FP1 to Titan PLC CRS_FP1 to Titan, PLC CRS_250T_MIRLMBINT002_PRIME V 2016-335T00:29.32 GMB_E250_TTAN_T125+000T00:0:00 000T0:40:00 2016-335T01:43:2 CRS_FP1 to Titan PLC HRGS_VTO NTP CRS_250T_MIRLMBINT002_PRIME I, V 2016-335T01:43:2 GMB_E250_TTAN_T125+000T09:00:00 000T0:40:00 2016-335T01:43:2 CRS_FP1 to Titan PLC HRGS_VTO NTP CRS_250T_FRINADCMP002_PRIME I, V 2016-335T0:43:2 GMB_E250_TTAN_T125+000T09:00:00 000T0:40:00 2016-335T1:43:2 CRS_FP1 to Titan PLC HRGS_VTO NTP CRS_250T_FRINADCMP002_PRIME I, U, V 2016-335T1:43:2 GMB_E250_TTAN_T125+00	CIRS_250TI_FIRLMBT002_PRIME	M, V	2016-334T22:29:32	GMB_E250_TITAN_T125+000T00:15:00	000T00:30:00	2016-334T22:59:32	CIRS_FP1 to Titan	PIC	28.0/22.0; Hand off at CIRS_FP1 to Titan, PIC.
CIRS_250TL_FIRLMARAR002_PRIME M, V 2016 334722:95:32 CMB_225_TTAN_T125:4000T03:50.0 2016-334732:32:32 CIRS_FP1 to Than PIC									Pick up at CIRS_FP1 to Titan, PIC; Hand off at
CRS_250T_FRIAMBWTR001_PRIME M, V 2016-334723:29:32 GMB E250_TTAN_T125+000T01:15:0 000T01:00:00 2016-335702:932 CRS_FP1 to Titan PEC CRS_FP1 to Titan, PEC. CRS_250T_FRIAMDW1R001_PRIME V 2016-335700:29:32 GMB E250_TTAN_T125+000T0:15:00 000T01:00:00 2016-335700:29:32 CRS_FP1 to Titan PEC CRS_FP1 to Titan, PEC. Collaborative Rider(s) VMS. PEX up at CRS_FP1 to Titan, PEC. Collaborative Rider(s) VMS. PEX up at CRS_FP1 to Titan, PEC. Collaborative Rider(s) VMS. PEX up at CRS_FP1 to Titan, PEC. Collaborative Rider(s) VMS. PEX up at CRS_FP1 to Titan, PEC. Collaborative Rider(s) VMS. PEX up at CRS_FP1 to Titan, PEC. Collaborative Rider(s) VMS. PEX up at CRS_FP1 to Titan, PEC. Collaborative Rider(s) VMS. PEX up at CRS_FP1 to Titan, PEC. VMS. PEX up at CRS_FP1 to Titan, PEC. VMS. PEX up at CRS_FP1 to Titan, PEC. Collaborative Rider(s) VMS. PEX up at CRS_FP1 to Titan, PEC. VMS. <	CIRS_250TI_FIRLMBAER002_PRIME	M, V	2016-334T22:59:32	GMB_E250_TITAN_T125+000T00:45:00	000T00:30:00	2016-334T23:29:32	CIRS_FP1 to Titan	PIC	CIRS_FP1 to Titan, PIC.
CIRS_250TL_FIRLMBWTR001_PRIME M_V 2016-334723:29:32 CIRS_125:00TTAN_T125+000T01:15:00 D00T0:00:00 2016-335T00:29:32 CIRS_FP1 to Titan PIC CirS_FP1 to Titan Collaborative Rider(s): VIDS. Pick up at Collaborative Rider(s): VIDS. Pick up at Collaborative Rider(s): VIDS. Pick up at CirS_250TL_MIRLMBINT002_PRIME V 2016-335T00:29:32 GMB_E250_TITAN_T125+000T02:15:00 000T02:45:00 2016-335T03:14:32 CIRS_FP1 to Titan PIC Pick up at CIRS_FP1 to Titan, NEG_X to NTP; Pick up at CIRS_FP1 to Titan, NEG_X to NTP; CIRS_250TL_MIRLMBINT002_PRIME I, V 2016-335T01:14:32 GMB_E250_TITAN_T125+000T05:00:0 000T04:00:00 2016-335T01:14:32 CIRS_FP1 to Titan PIC Pick up at CIRS_FP1 to Titan, NEG_X to NTP; CIRS_250TL_MIRLMBINT002_PRIME I, U, V 2016-335T0:14:32 GMB_E250_TITAN_T125+000T03:00:0 000T04:00:0 2016-335T1:14:32 GRS_FP1 to Titan PIC Pick up at CIRS_FP1 to Titan, NEG_X to NTP; CIRS_250TL_MIRLMADWD02_PRIME I, U, V 2016-335T1:14:32 GMB_E250_TITAN_T125+000T13:00:0 000T0:00:00 2016-335T1:43:00 CIRS_FP1 to Titan NEG_X to NTP Collaborative Rider(s): Tran, NEG_X to NTP; CIRS_250TL_MIRLMADWD02_PRIME I, V 2016-335T1:43:0 GMB_E250_TITAN_T125+000T1									Pick up at CIRS_FP1 to Titan, PIC; Hand off at
CIRS_250TL_FIRNADMAP002_PRIME V 2016-335T00-29-32 GMB_E250_TTTAN_T125+000T05:15:00 000T02:45:00 2016-335T03:14:32 CIRS_FP1 to Titan, NEG_X to NTP Fitan MEG_X to NTP	CIRS_250TI_FIRLMBWTR001_PRIME	M, V	2016-334T23:29:32	GMB_E250_TITAN_T125+000T01:15:00	000T01:00:00	2016-335T00:29:32	CIRS_FP1 to Titan	PIC	CIRS_FP1 to Titan, PIC.
CRS_250T_FIRNADMAP002_PRIME V 2016-335700-29:0 GMB_2520_TITAN_T125+000T02:15:00 000T02:45:0 2016-335703:14:32 CRS_FP1 to Titan, PIC, Hand off at CRF_FP1 to Titan, PIC, Han									Collaborative Rider(s): VIMS. Pick up at
CIRS_250TL_FIRNADOM_POO2_PRIME V 2016-335T02:4:32 CIRS_FP1 to Titan NEG_X to NTP Titan, NEG_X to NTP, Collaborative Rider(s): Pickup at CIRS_FP1 to Titan, NEG_X to NTP, CIRS_250TL_MIRLMBINTOO2_PRIME I, V 2016-335T07:14:32 GMB_E250_TITAN_T125+000T05:00:00 000T04:00:00 2016-335T07:14:32 CIRS_FP1 to Titan PIC Hand off at CIRS_FP1 to Titan, NEG_X to NTP; CIRS_250TL_MIRLMBINTOO2_PRIME I, U 2016-335T07:14:32 GMB_E250_TITAN_T125+000T09:00:00 000T04:00:00 2016-335T17:14:32 CIRS_FP1 to Titan PIC Hand off at CIRS_FP1 to Titan, NEG_X to NTP; CIRS_250TL_FIRNADCMP002_PRIME I, U 2016-335T07:14:32 GMB_E250_TITAN_T125+000T09:00:00 000T06:30:32 2016-335T17:48:00 CIRS_FP1 to Titan NEG_X to NTP Collaborative Rider(s): ISS. Teck up at CIRS_FPB to Titan NEG_X to NTP Collaborative Rider(s): ISS. Teck up at CIRS_FPB to Titan NEG_X to NTP Collaborative Rider(s): ISS. Teck up at CIRS_FPB to Titan NEG_X to NTP Collaborative Rider(s): ISS. Teck up at CIRS_FPB to Titan NEG_X to NTP Collaborative Rider(s): ISS. Tech up at CIRS_FPB to Titan NEG_X to NTP Collaborative Rider(s): ISS. Tech up at CIRS_FPB to Titan NEG_X to NTP Collaborative Rider(s): ISS. Tech up at CIRS_FPB to Titan NEG_X to NTP Co									CIRS_FP1 to Titan, PIC; Hand off at CIRS_FPB to
CIRS_250T_MIRLMBINT002_PRIME I, V 2016-335T03:14:32 GMB_E250_TITAN_T125:000T05:00:0 000704:00:0 2016-335T07:14:32 GRS_FPB to Titan PIC Hand off at CIRS_FP1 to Titan, NEG_X to NTP; CIRS_250T_FIRMADCMP002_PRIME I, U, V 2016-335T07:14:32 GMB_E250_TITAN_T125:000T05:00:0 000704:00:0 2016-335T11:14:32 CIRS_FP1 to Titan NEG_X to NTP Hand off at CIRS_FP1 to Titan, NEG_X to NTP; CIRS_250T_FIRMADCMP002_PRIME I, U, V 2016-335T17:14:32 GMB_E250_TITAN_T125:000T09:00:0 000706:33:28 2016-335T17:48:00 CIRS_FP8 to Titan NEG_X to NTP Hand off at CIRS_FP8 to Titan, NEG_X to NTP. CIRS_250T_IMIDIRTMAP002_PRIME I, V 2016-335T17:48:00 GMB_E250_TITAN_T125:000T19:30:00 000706:33:28 2016-335T17:48:00 CIRS_FP8 to Titan NEG_X to NTP CIRS_TO NTP, Hand off at CIRS_FP1 to Titan, NEG_X to NTP. CIRS_250T_DEADTIME335_PRIME I, V 2016-335T17:48:00 GMB_E250_TITAN_T125:000T19:33:28 000T00:10:00 2016-335T18:48:00 NEG_X to NTP. MIG_X to NTP. SP_250EA_DTURN335_PRIME 2016-335T17:48:00 GMB_E250_TITAN_T125:000T19:33:28 000T00:10:00 2016-335T18:43:00 NEG_X to NTP. MIG_X to NTP.	CIRS_250TI_FIRNADMAP002_PRIME	V	2016-335T00:29:32	GMB_E250_TITAN_T125+000T02:15:00	000T02:45:00	2016-335T03:14:32	CIRS_FP1 to Titan	NEG_X to NTP	Titan, NEG_X to NTP. Collaborative Rider(s):
CIRS_250T_MIRLMBINTODRRIME I, V 2016-335T03:14:32 GMB_252_TITAN_T125:000T05:00::00 000T04:00::00 2016-335T07:14:32 CIRS_PP to Titan PIC Hand off at CIRS_PP to Titan, NEG_X to NTP; CIRS_250T_FIRMADCMP002_PRIME I, U, V 2016-335T07:14:32 GMB_252_TITAN_T125:000T05:00::00 000T04:00::00 2016-335T11:14:32 CIRS_PP to Titan PICk up at CIRS_PP to Titan, NEG_X to NTP; Hand off at CIRS_PP to Titan, NEG_X to NTP. Hand off at CIRS_PP to Titan, NEG_X to NTP; Hand off at CIRS_PP to Titan, NEG_X to NTP; CIRS_250TI_FIRMADCMP002_PRIME I, V 2016-335T11:14:32 CIRS_PP to Titan NEG_X to NTP. End Custom Period 2016-335T12:48::00 GMB_E250_TITAN_T125:000T19:33:28 2016-335T17:48::00 CIRS_FP to Titan NEG_X to NTP SP_250EA_DLTURN335_PRIME 2016-335T18:43::00 GMB_E250_TITAN_T125:000T19:33:28 000T00::00: 2016-335T18:43::00 NEG_Y to Saturn NEW WAYPOINT 2016-335T18:43::00 GMB_E250_TITAN_T125:000T19:33:28 000T00::00: 2016-335T18:43::00 NEG_Y to Saturn SP_250EA_YGAP335_PRIME 2016-335T18:43::00 000T14:30::00 2016-335T18:43::00 NEG_Y to Saturn NEG_Y to Saturn <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Pick up at CIRS_FPB to Titan, NEG_X to NTP;</td></t<>									Pick up at CIRS_FPB to Titan, NEG_X to NTP;
CIRS_250T_FIRNADCMP002_PRIME I, U, V 2016-335T07:14:32 GMB_E250_TITAN_T125+000T09:0:00 000704:00:00 2016-335T11:14:32 CIRS_FP1 to Titan NEG_X to NTP Hand off at CIRS_FP1 to Titan, NEG_X to NTP. CIRS_250T_MIDIRTMAP002_PRIME I, V 2016-335T11:14:32 GMB_E250_TITAN_T125+000T19:30:00 000706:33:28 2016-335T17:48:00 CIRS_FP1 to Titan NEG_X to NTP Collaborative Rider(s): ISS. Pick up at CIRS_FPB to Titan, NEG_X to NTP. CIRS_250TI_MIDIRTMAP002_PRIME I, V 2016-335T11:14:32 GMB_E250_TITAN_T125+000T19:30:00 000706:33:28 2016-335T17:48:00 CIRS_FPB to Titan NEG_X to NTP ISS. Template M32 End Custom Period 2016-335T17:48:00 GMB_E250_TITAN_T125+000T19:32:8 000700:15:00 2016-335T17:48:00 NEG_Y to Titan NEG_X to NTP ISS. Template M32 SP_250EA_DLTURN335_PRIME 2016-335T18:03:00 GMB_E250_TITAN_T125+000T19:32:8 000701:00:00 2016-335T18:43:00 NEG_Y to Titan NEG_Y to Saturn ISS. Template M32 SP_250EA_DLTURN335_PRIME 2016-335T18:43:00 GMB_E250_TITAN_T125+000T19:32:8 000701:30:00 2016-335T18:43:00 NEG_Y to Saturn ISS. Template M32 SP_250EA_YGAP335_PRIME 2016-335T18:43:00 O000T01:40:00 2016-335T18:43:00 <t< td=""><td>CIRS_250TI_MIRLMBINT002_PRIME</td><td>I, V</td><td>2016-335T03:14:32</td><td>GMB_E250_TITAN_T125+000T05:00:00</td><td>000T04:00:00</td><td>2016-335T07:14:32</td><td>CIRS_FPB to Titan</td><td>PIC</td><td>Hand off at CIRS_FP1 to Titan, NEG_X to NTP.</td></t<>	CIRS_250TI_MIRLMBINT002_PRIME	I, V	2016-335T03:14:32	GMB_E250_TITAN_T125+000T05:00:00	000T04:00:00	2016-335T07:14:32	CIRS_FPB to Titan	PIC	Hand off at CIRS_FP1 to Titan, NEG_X to NTP.
CHS_250T_FIRNADCMP002_PRIME I, U 2016-335T07:14:32 GMB_E250_TTAM_T125+000T09:00:0 D00T04:00:0 2016-335T11:14:32 CHS_FP1 to Titan NEG_X to NTP Hand of the CHS_FPB to Titan, NEG_x to NTP. CHS_250TI_MIDIRTMAP002_PRIME I, V 2016-335T11:14:32 GMB_E250_TTAM_T125+000T13:00:00 000T06:33:28 2016-335T17:48:00 CHS_FPB to Titan NEG_X to NTP Collaborative Rider(s): ISS. Pick up at CHS_FPB End Custom Period 2016-335T17:48:00 GMB_E250_TTTAM_T125+000T19:33:28 000T00:0:00 2016-335T17:48:00 CHS_FPB to Titan NEG_X to NTP SEE to Titan, NEG_X to NTP SP_250EA_DLTURN335_PRIME 2016-335T17:48:00 GMB_E250_TTTAM_T125+000T19:33:28 000T00:0:00 2016-335T18:43:00 CHS_Y to Titan NEG_Y to Titan NEG_Y to Titan SP_250EA_DLTURN335_PRIME 2016-335T18:43:00 COUT0:40:00 2016-335T18:43:00 COUT0:40:00 2016-335T09:13:00 (0.0,0,0,-9.5 deg, offset) NEG_Y to Saturn SP_250EA_C34BWGNON335_PRIME E 2016-335T18:43:00 COUT0:40:00 2016-335T02:13:00 (0.0,0,0,-9.5 deg, offset) NEG_Y to Saturn SP_250EA_C34BWGNON335_PRIME E 2016-335T18:43:00 COUT0:13:00:0									Pick up at CIRS_FP1 to Titan, NEG_X to NTP;
New MayPoint Section 2016-335T18:43:00 Control Contente Contrecon Control Control Control Contente Control Control Co	CIRS_250TI_FIRNADCMP002_PRIME	I, U, V	2016-335T07:14:32	GMB_E250_TITAN_T125+000T09:00:00	000T04:00:00	2016-335T11:14:32	CIRS_FP1 to Titan	NEG_X to NTP	Hand off at CIRS_FPB to Titan, NEG_X to NTP.
CIRS_250T_MIDIRTMAP002_PRIME I, V 2016-335T11:14:32 GMB_E250_TITAN_T125+000T13:00:0 000706:33:28 2016-335T17:48:00 CIRS_FPB to Titan NEG_X to NTP ISS_Template M3? End_Custom Period 2016-335T11:14:30 GMB_E250_TITAN_T125+000T19:33:28 000T00:00:0 2016-335T17:48:00 NEG_Y to NTP ISS_Template M3? SP_250T_DEADTIME335_PRIME 2016-335T17:48:00 GMB_E250_TITAN_T125+000T19:33:28 000T00:00:0 2016-335T17:48:00 NEG_Y to Titan NEG_Y to NTP Coll Coll Coll Coll Coll Coll Coll Coll									Collaborative Rider(s): ISS. Pick up at CIRS_FPB
CIRS_250TI_MIDIRTMAPQ02_PRIME I, V 2016-335T11:14:32 GMB_E250_TITAN_T125+000T19:33:28 2016-335T17:48:00 CIRS_FPB to Titan NEG_X to NTP Ittan, NEG_X to NTP. End_Outom Period 2016-335T17:48:00 GMB_E250_TITAN_T125+000T19:33:28 000T00:0:00 2016-335T18:0:00 NEG_Y to Titan NEG_X to NTP SP_250T_DEADTIME335_PRIME 2016-335T18:0:00 GMB_E250_TITAN_T125+000T19:33:28 000T00:15:00 2016-335T18:0:00 NEG_Y to Titan									to Titan, NEG_X to NTP; Hand off at NEG_Y to
ClkS_25011_MIDRINAPD02_PRIME I, V Z016-335112:43:20 GMB_E250_TITAN_125+000119:33:28 2016-335112:48:00 ClkS_PB to Tran NEG_X to NTP Iss. Template M3? End Custom Period 2016-335112:48:00 GMB_E250_TITAN_125+000T19:33:28 000T00:10010 2016-335112:48:00 NEG_Y to NTP Iss. Template M3? SP_250TI_DEADTIME335_PRIME 2016-335114:48:00 GMB_E250_TITAN_125+000T19:33:28 000T00:1000 2016-335118:03:00 NEG_Y to NTP Iss. Template M3? SP_250EA_DLTURN335_PRIME 2016-335118:03:00 GMB_E250_TITAN_125+000T19:33:28 000T00:01:00 2016-335118:03:00 NEG_Y to Saturn NEW WAYPOINT 2016-335118:03:00 000T14:30:00 2016-335112:00 (0.0,0.0,9.5 deg. offset) NEG_Y to Saturn SP_250EA_YGAP335_PRIME E 2016-335118:43:00 000T10:30:00 2016-335172:01:30 (0.0,0.0,9.5 deg. offset) NEG_Y to Saturn SP_250EA_C34BWGN0N335_PRIME C, R 2016-335120:13:00 000T00:00:10 2016-335120:13:00 (0.0,0.0,-9.5 deg. offset) NEG_Y to Saturn MIMI.NEG_Y to Saturn (0,0,-9.5). SP_250EA_C34BWGN0N335_PRIME C, R 2016-335120:13:00 000T00:00:10 2016-335120									litan, NEG_X to NTP. Collaborative Rider(s):
End Custom Period 2016-33517/248:00 GME_E250_ITTAN_1125+000119332;8 000100:00:01 2016-33517/248:01 NEG_X to NTP SP_250TL_DEADTIME335_PRIME 2016-335T17:48:00 GMB_E250_ITTAN_1125+000T19:33:28 000100:00:01 2016-335T18:03:00 NEG_Y to Titan NEG_Y to NTP SP_250EA_DLTURN335_PRIME 2016-335T18:03:00 GMB_E250_ITTAN_1125+000T19:33:28 000100:00:01 2016-335T18:03:00 NEG_Y to Saturn SP_250EA_DLTURN335_PRIME 2016-335T18:43:00 000T04:000 2016-335T18:43:00 NEG_Y to Saturn NEW WAYPOINT 2016-335T18:43:00 000T01:30:00 2016-335T20:13:00 (0.0,0.0,-9.5 deg. offset) NEG_Y to Saturn SP_250EA_YGAP335_PRIME E 2016-335T20:13:00 000T01:30:00 2016-335T20:13:00 (0.0,0.0,-9.5 deg. offset) NEG_Y to Saturn SP_250EA_C348WGNON335_PRIME C, R 2016-335T23:140 000T00:0:01 2016-335T23:140 NBAND to Earth NIMI.NEG_Y to Saturn (0.0,-9.5). Apoapse Per = 7.2 d, inc = 63.7 deg 2016-335T0:13:00 000T00:0:01 2016-335T0:13:00 (0.0,0.0,-9.5 deg. offset) 5 Hr_Rolling MIMI.NEG_Y to Saturn (0.0,-9.5). Pointer Reset in preparatio 2016-335T07:13:00 000T00:0:001 2016-335T07:13:00	CIRS_250TI_MIDIRTMAP002_PRIME	I, V	2016-335T11:14:32	GMB_E250_TITAN_T125+000T13:00:00	000T06:33:28	2016-335T17:48:00	CIRS_FPB to Titan	NEG_X to NTP	ISS. Template M3?
SP_250F_DEAD1INESSS_PRIME 2016-335117:48:00 GMB_2230_ITHAN_1123+000119:33:28 000100:19:00 2016-335118:03:00 NEG_Y to Saturn SP_250EA_DLTURN335_PRIME 2016-335T18:03:00 000000:40:00 2016-335T18:43:00 NEG_Y to Saturn NEW WAYPOINT 2016-335T18:43:00 0000101:30:00 2016-335T09:13:00 (0.0,0.0,-9.5 deg. offset) NEG_Y to Saturn SP_250EA_YGAP335_PRIME E 2016-335T18:43:00 00011:30:00 2016-335T09:13:00 (0.0,0.0,-9.5 deg. offset) NEG_Y to Saturn SP_250EA_YGAP335_PRIME E 2016-335T18:43:00 000101:30:00 2016-335T02:13:00 (0.0,0.0,-9.5 deg. offset) NEG_Y to Saturn SP_250EA_YGAP335_PRIME E 2016-335T20:13:00 000101:30:00 2016-335T02:26:00 (0.0,0.0,-9.5 deg. offset) NEG_Y to Saturn SP_250EA_C34BWGNON335_PRIME C, R 2016-335T20:13:00 0000000:001 2016-335T02:26:00 (0.0,0.0,-9.5 deg. offset) NEG_Y to Saturn (0.0,-9.5). Apoapse Per = 7.2 d, inc = 63.7 deg 2016-336T02:26:00 0000T04:47:00 2016-336T07:13:00 (0.0,0.0,-9.5 deg. offset) 4_Hr_Rolling MIMI.NEG_Y to Saturn (0.0,-9.5). Pointer Reset in preparatio 2016-336T07:13:00 000T00:0001 2016-336T07:			2016-335117:48:00	GMB_E250_IIIAN_T125+000119:33:28	000100:00:01	2016-335117:48:01	NEC V to Titon		
SP_250EA_DLTURN335_PRIME 2016-335T18:03:00 000T00:40:00 2016-335T18:35(0) NEG_Y to Saturn NEW WAYPOINT 2016-335T18:43:00 000T14:30:00 2016-335T20:13:00 (0.0,0.0,-9.5 deg. offset) NEG_Y to Saturn SP_250EA_YGAP335_PRIME E 2016-335T18:43:00 000T01:30:00 2016-335T20:13:00 (0.0,0.0,-9.5 deg. offset) NEG_Y to Saturn SP_250EA_YGAP335_PRIME E 2016-335T18:43:00 000T01:30:00 2016-335T20:13:00 (0.0,0.0,-9.5 deg. offset) NEG_Y to Saturn SP_250EA_C34BWGNON335_PRIME C, R 2016-335T20:13:00 000T06:13:00 2016-335T20:13:00 (0.0,0.0,-9.5 deg. offset) NEG_Y to Saturn SP_250EA_C34BWGNON335_PRIME C, R 2016-335T20:13:00 000T06:13:00 2016-335T20:13:00 (0.0,0.0,-9.5 deg. offset) SHAND to Earth Apoapse Per = 7.2 d, inc = 63.7 deg 2016-335T20:13:00 000T00:00:10 2016-335T72:31:41 C C C SP_251EA_C70METNON336_PRIME C, R 2016-336T02:26:00 000T04:47:00 2016-336T07:13:00 (0.0,0.0,-9.5 deg. offset) 4_Hr_Rolling MIMI.NEG_Y to Saturn (0.0,-9.5). Pointer Reset in preparatio 2016-336T07:13:00 000T00:00:10 2016-336T07:13:00	SP_250TI_DEADTIME535_PRIME		2010-555117:48:00	GMB_E250_TTAN_T125+000119:33:28	000100:15:00	2010-555118:05:00	VPAND to Forth	NEG_X LO NTP	
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	SP 251EA M70METNON336 PRIME	C. R	2016-336T07:13:00		000T02:00:00	2016-336T09:13:00	(0.0.0.09.5 deg. offset)	NEG Y to Saturn	MIMI.NEG Y to Saturn (0.09.5).

Boehmer

Science Planning & Sequence Team

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T125 TOST High-Priority Observations

T125 Sum	mary of PIEs and Other High Prio	rity Observations					
Discipline	CIMS Request Name	Start Time	End Time	Flexibility in secondary pointing	Comments (e.g., pointing tolerance, uniqueness; relative priority)	Science Traceability Matrix Code(s)	Pointing designer POC
							Jason Perry
Titan	ISS_250TI_REGMAP001_PRIME	2016-334T19:59:32	2016-334T21:44:32	Flexible		TN1a	<volcanopele@gmail.com></volcanopele@gmail.com>
							Edward Audi
Titan	VIMS_250TI_HIRES001_PRIME	2016-334T21:44:32	2016-334T22:29:32	Flexible	Dual Playback data	TC1a, TN1a	<edaudi@lpl.arizona.edu></edaudi@lpl.arizona.edu>
							Todd Ansty
Titan	CIRS_250TI_FIRLMBT002_PRIME	2016-334T22:29:32	2016-334T22:59:32	Significant Science Impact if Secondary Changed	Significant Impact to Science	TN1c	<tma22@cornell.edu></tma22@cornell.edu>
							Todd Ansty
Titan	CIRS_250TI_FIRLMBAER002_PRIME	2016-334T22:59:32	2016-334T23:29:32	Significant Science Impact if Secondary Changed	Significant Impact to Science	TN1c	<tma22@cornell.edu></tma22@cornell.edu>
							Todd Ansty
Titan	CIRS_250TI_FIRLMBWTR001_PRIME	2016-334T23:29:32	2016-335T00:29:32	Significant Science Impact if Secondary Changed	Significant Impact to Science	TN1c	<tma22@cornell.edu></tma22@cornell.edu>
							Todd Ansty
Titan	CIRS_250TI_MIRLMBINT002_PRIME	2016-335T03:14:32	2016-335T07:14:32	Significant Science Impact if Secondary Changed	Significant Impact to Science	TN1c	<tma22@cornell.edu></tma22@cornell.edu>

November 29 (DOY 334) – The T125 campaign, the last ORS closest-approach targeted-Titan flyby of the mission, begins with VIMS as prime observer. On the inbound, VIMS will acquire a mosaic that includes the eastern part of Xanadu, Hotei Arcus, Menrva, and the North Pole. In additiion, VIMS will monitor cloud activity and the evolution of the south polar vortex. ISS and CIRS will ride along with VIMS: in particular, ISS will image Titan's surface and atmosphere over the sub-Saturnian and leading hemisphere at mid-southern latitudes. ISS takes over as prime and will acquire a medium- to high-resolution mosaic over Titan's leading hemisphere, including Hotei Regio. At closest approach, VIMS is prime and will acquire a high-resolution map of the North Pole to look for variations at and around the seas and lakes.

On the outbound, CIRS is prime until the end of segment, and will perform a number of important and unique last-of-kind observations, starting with the final far-infrared limb observations and surface temperature map. These will provide the last opportunity for vertical profile determination of gases, such as water and aerosols, in the mission. VIMS will ride along on these observations, looking for specular reflections on Titan seas to monitor the evolution of the liquid hydrocarbon reservoirs. UVIS will ride along on the temperature map to obtain vertical profiles of emissions emissions of nitrogen and hydrocarbons, which are diagnostic of temperature and excitation processes in the high atmosphere of Titan. In fact, this observation provides UVIS a limb viewing opportunity at the highest spatial resolution available outside of occultations.

T125 has MAPS objectives as well. MAG will explore the north sector of Titan's magnetic tail. MIMI will measure energetic ion and electron energy input to Titan's atmosphere. Finally, RPWS will measure thermal plasmas in Titan's ionosphere and surrounding environment, search for lightning in Titan's atmosphere, and investigate the interaction of Titan with Saturn's atmosphere. November 30 (DOY 335) – CIRS continues as prime for the remainder of T125 outbound. CIRS will make limb and nadir observations in the mid-infrared that will extend temporal coverage of seasonal change in Titan's stratosphere as the southern hemisphere approaches winter solstice. VIMS, ISS, and UVIS are riding along with CIRS. VIMS will look again for specular reflections on Titan seas to monitor the evolution of the liquid hydrocarbon reservoirs. In particular, VIMS has collaborative opportunities at Kraken Mare, including the throat of Kraken. ISS will image Titan's surface and atmosphere over the trailing hemisphere at mid-northern latitudes. UVIS will ride along on CIRS NADCMP primes to obtain long integration times and thus, high signal/noise data on hydrocarbon emissions, nitrogen airglow, and haze properties, although with lower vertical resolution relative to limb observations or occultations.

T125 MAPS objectives continue into DOY 335.

Playback of the data follows, and will occur over a split Canberra 34M/70M downlink. The first pass of the final RSS Solar Conjunction Experiment in the mission (SCE #13) will take place during the downlinks as well. The RSS SCE is a month long experiment centered around conjunction day (minimum SEP) to characterize the solar corona at 2 frequency bands (X and Ka1 or X and S, depending on DSN antenna used for downlink – for T125 as current: DSS-34 will be X and Ka1, and DSS-43 & 63 will be X & S-band), and assess the electron content and possible Faraday rotation.

December 1 (DOY 336) – Playback continues over the Canberra 70M downlink, followed immediately by Dual Playback of the high-value VIMS data over the subsequent Madrid 70M downlink. SCE #13 continues over these downlinks as well.

T125 Dual Playback

				-			-
Flyby	BEGHIVAL	ENDHIVAL	P4 Dual Playback Data Volume	SSR empty before hi-val observation period? (if not verify any carryover on A fits with Hi-Val data)	SSR-A empty after first playback?	PPL set to A4,B4 for first AND second playbacks?	SSRs empty after second playback? (if not does any Hi-Val data carry over?)
T125	T125-30 min	T125+15 min	264 Mb	No (carryoveron SSR-B only)	Yes	Yes	No (no Hi-Val carryover)

Playbacks contiguous:

48 Mb on SSR-B

525 Mb carryover, no Hi-Val

TOST T125



Reminder - ALL instruments' data is played back twice during P4 dual playback periods

Boehmer

Science Planning & Sequence Team

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- Pointing:
 - Custom Period invoked to minimize turn time between VIMS and CIRS at closest approach.
 - Note: turns checked in CTV & PDT but designs not delivered: T125 not a FRPO segment.
 - Waypoint secondaries chosen for science, but close to RBOT-friendly RA/DECs.
 - Rolling downlink over 11-hour split pass (DSS-34/DSS-43): 5-hour + 4-hour rolls over the 2 passes to meet SCO Rolling Guidelines.
 - Apoapse in segment: AACS "2 of 3" Rule met no MAG rolls in segment.
- Data Volume:
 - TOST agrees to 48 Mb carryover from preceding SOST_250 segment.
 - Saturn_251 has agreed to 525 Mb carryover from T125 segment.
 - SMT warnings:
 - SP_250EA_C34BWGNON335_PRIME: Priority List conflicts with selected SSR (SSR_B) OK and expected. Dual Playback strategy requires SSR_A playback first.
 - SP_251EA_C70METNON336_PRIME: Priority List conflicts with selected SSR (SSR_B) OK and expected. Dual Playback strategy requires SSR_A playback first.
 - SP_251EA_M70METNON336_PRIME: Priority List conflicts with selected SSR (SSR_B) OK and expected. Dual Playback strategy requires SSR_A playback first.

TOST T125

- DSN:
 - Juno has requested DSS-43 to 335T01:26 SCET for their PJ5 (+10h) activity. Cassini has accommodated by splitting the main downlink from DSS-43 to DSS-34 handing over to DSS-43.
 - Cassini has cut 923 Mb to accommodate this request.
 - The DSS-34/DSS-43 split pass now has a total downlink capacity of 1698 Mb, barely enough to preserve the dual playback.
 - Note: Juno has not finalized their 70M requests and may propose more DSS-43 time from Cassini. Further requests should involve Project Management.
 - Dual Playback pass originally preceded main downlink; moved to DSS-63 after main downlink
 - Segment boundary extended at end by 1h 45m, approved by following segment Saturn_251.
 - DSS-35 extended maintenance from DOY 325-344: Not requested in T125
 - RSS Solar Conjunction Experiment #13: RSS would have preferred DSS-35 over DSS-34 for SCE. DSS-36 may be a preferable substitute as well (will be available resource by then?)
 - AP_Downlink report check warnings:
 - SP_250EA_C34BWGNON335_PRIME has an unusual priority playback list OK and expected. Dual Playback strategy requires SSR_A playback first.
 - SP_251EA_C70METNON336_PRIME has an unusual priority playback list OK and expected. Dual Playback strategy requires SSR_A playback first.
 - SP_251EA_M70METNON336_PRIME has an unusual priority playback list OK and expected. Dual Playback strategy requires SSR_A playback first.
 - SP_251EA_M70METNON336_SP fully within DSS-63 weekly maintenance; move elsewhere to resolve. Pass must be on DSS-63 for Dual Playback strategy to work.
 - SP_251EA_C70METNON336_PRIME, SP_251EA_M70METNON336_PRIME an unusual DSN lockup time; usual for post-handover passes is 60 sec. OK and expected, Playback occurs at BOT with no D/L handover, 300 seconds required.

Notes (3/3)

TOST T125

- Resource checker (6 items):
 - SP_250EA_C34BWGNON335_PRIME: First_Part value of SSRAP4 does not match default of SSRBP4, Second_Part value of SSRBP4 does not match default of SSRAP4 OK and expected. Dual Playback strategy requires SSR_A playback first.
 - SP_251EA_C70METNON336_PRIME: First_Part value of SSRAP4 does not match default of SSRBP4, Second_Part value of SSRBP4 does not match default of SSRAP4 OK and expected. Dual Playback strategy requires SSR_A playback first.
 - SP_251EA_M70METNON336_PRIME: First_Part value of SSRAP4 does not match default of SSRBP4, Second_Part value of SSRBP4 does not match default of SSRAP4 OK and expected. Dual Playback strategy requires SSR_A playback first.
 - CIRS_250TI_FIRLMBT002_PRIME: Custom period request is using PIC in secondary BV of handoff pointing OK, CIRS picking up/handing off to self.
 - CIRS_250TI_FIRLMBAER002_PRIME: Custom period request is using PIC in secondary BV of handoff pointing OK, CIRS picking up/handing off to self.
 - CIRS_250TI_FIRLMBWTR001_PRIME: Custom period request is using PIC in secondary BV of handoff pointing OK, CIRS picking up/handing off to self.
- Opmodes:
 - No unique opmodes.
 - RSS Solar Conjunction Experiment #13 on downlink passes:
 - RSS requests RSSKRWAF on DSS-34, then RSS2RWAF on DSS-43 and DSS-63.
 - Note: if stations change during DSN negotiation, please consult with RSS for appropriate Opmode.
- Hydrazine:
 - No RCS, not applicable.
- Special Activities:
 - Dual Playback for VIMS

Liens

Sequence Liens (should all be SPLAT items):

- T125 Dual Playback
 - SPLAT item initiated for SP to track viability of dual playback strategy following DSN negotiations.
- RSS Solar Conjunction Experiment
 - SPLAT item initiated for SP/RSS/SCO to track Opmode in case of station change due to DSN negotiations.

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