

198TI T95

C/A Altitude = 961 km

Delivered: February 11, 2013

Start Time	End Time	Prime Activity	Observation Detail	Operational Mode	Telemetry Mode	Comments
2013-285T06:15:00	2013-285T06:55:00	SP Turn to Waypoint	NEG_Y to Titan, NEG_X to NTP	DFPW Normal	S_N_ER_3	
2013-285T06:55:00	2013-285T10:55:00	ISS	ISS mosaic at first, then sit and stare for CIRS and VIMS (TN2c, TN2d)	DFPW Normal	S_N_ER_3	
2013-285T10:55:00	2013-285T14:00:00	ISS	ISS mosaic at first, then sit and stare for CIRS and VIMS (TN2c, TN2d)	DFPW Normal	S_N_ER_3	
2013-285T14:00:00	2013-285T15:00:00	ISS	ISS mosaic (TC1a)	DFPW Normal	S_N_ER_3	
2013-285T15:00:00	2013-285T19:05:00	CIRS Rings PIE (Pre-Integrated Event)	Rings PIE - NP20L30S19054 (RC1a)	DFPW Normal	S_N_ER_3	Secondary TBD
2013-285T19:05:00	2013-285T19:45:00	SP Turn to Earth for Downlink	XBAND to Earth, NEG_Y to 123.0/-25.0	DFPW Normal	S_N_ER_3	Secondary pointing is RA/DEC-equivalent of MIMI-preferred NEG_Y to Saturn with (0.0, 0.0, -9.5 deg) offset
2013-285T19:45:00	2013-285T21:15:00	Y-Bias Window		DFPW Normal	S_N_ER_3	
2013-285T21:15:00	2013-286T06:15:00	Canberra 34M		DFPW Normal	S_N_ER_3	
2013-286T06:15:00	2013-286T06:55:00	SP Turn to Waypoint	NEG_Y to Titan, NEG_X to NTP	DFPW Normal	S_N_ER_3	
2013-286T06:55:00	C/A-21:46:27	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
C/A-21:46:27	-14:00	CIRS	Template A2 (TC1b)	DFPW Normal	S_N_ER_3	ISS collaborative rider
-14:00	-12:00	ISS	Template D2 (TC1a, TC1b, TN1a, TN2c - could also use TN1c for limb haze layer, depending on geometry if along limb, or TN2d, depending on timing.)	DFPW Normal	S_N_ER_3	
-12:00	-09:00	CIRS	Template D2 (TN1c)	DFPW Normal, then RADWU at -09:15	S_N_ER_3, then S_N_ER_5A for 15 min at -9:15	
-09:00	-06:00	CIRS	Template F1 (TC1b OR TN1c)	RADWU	S_N_ER_3	
-06:00	-02:15	RADAR	Templates L + F1 (TN2c, TN2c)	RADWU	S_N_ER_8	ISS, VIMS sleep
-02:15	-01:00	RADAR scatterometry/radiometry	(TN2c, TN1a)	RADWU	S_N_ER_8	ISS, VIMS sleep
-01:00	-00:31	RADAR High-Altitude SAR	(TN1a, TN1b, TN2c)	RADWU	S_N_ER_8	ISS, VIMS sleep
-00:31	-00:30	RWA to RCS Transition		RADWU	S_N_ER_8	Set deadband to (0.5, 0.5, 2.0 mrad)
-00:18	0	INMS	(TN1a, TN1b, TN2b, TN1c, MC2a)	RADWU	S_N_ER_8	RADAR rider
2013-287T04:56:27		CLOSEST APPROACH	NEG_X to RAM, NEG_Z to Titan (TC2a)			High solar activity; equatorial; near noon. INMS needs either this pass or T94
0	+00:18	INMS	(TN1a, TN1b, TN2b, TN1c, MC2a)	RADWU	S_N_ER_8	RADAR rider Heating CIRS outbound, possible consumable usage
+00:18	+00:30	RADAR Altometry	(TN2b)	RADWU	S_N_ER_8	
+00:30	+00:52	RCS to RWA Transition		RADWU	S_N_ER_8	Set deadband to (2.0, 2.0, 20.0 mrad) through transition
+00:52	+01:12	RADAR High-Altitude SAR	(TN1a, TN1b, TN2c)	RADWU	S_N_ER_8	
+01:12	+02:15	RADAR scatterometry/radiometry	(TN1a, TN2c)	RADWU	S_N_ER_8	ISS, VIMS sleep
+02:15	+06:00	RADAR	Templates L + R1 (TN2c, TN2c)	RADWU	S_N_ER_8	ISS, VIMS sleep
+06:00	+09:00	CIRS	Template R1 (TN1c or TC1b, decided in implementation)	DFPW Normal	S_N_ER_3	
+09:00	+13:00	CIRS	Template N1 (TC1b, TN1c aerosol)	DFPW Normal	S_N_ER_3	
+13:00	C/A+13:53:33	CIRS	Template M4 (TC1b, TN1c on outbound)	DFPW Normal	S_N_ER_3	
C/A+13:53:33	2013-287T19:05:00	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
2013-287T19:05:00	2013-287T19:45:00	SP Turn to Earth for Downlink	XBAND to Earth, NEG_Y to Saturn, (0.0, 0.0, -9.5 deg offset)	DFPW Normal	S_N_ER_3	Secondary pointing is MIMI-preference
2013-287T19:45:00	2013-288T07:25:00	Canberra 70M		DFPW Normal	RTE_N_SPB	Rolling
2013-288T07:25:00	2013-288T09:15:00	Madrid 70M		DFPW Normal	RTE_N_SPB	Rolling/SRU, Dual playback for INMS/RADAR, -00:06 to +00:06
2013-288T09:15:00	2013-288T09:55:00	SP Turn to Waypoint	NEG_Y to Titan, NEG_X to NTP	DFPW Normal	S_N_ER_3	
2013-288T09:55:00	2013-288T12:25:00	ISS	ISS mosaic at first, then sit and stare for CIRS (TN2c, TN2d)	DFPW Normal	S_N_ER_3	
2013-288T12:25:00	2013-288T16:25:00	ISS	ISS mosaic at first, then sit and stare for CIRS (TN2c, TN2d)	DFPW Normal, then RADWU at 288T16:10	S_N_ER_3, then S_N_ER_5A for 15 min at 288T16:10	
2013-288T16:25:00	2013-288T20:25:00	ISS	ISS mosaic at first, then sit and stare for CIRS (TN2c, TN2d)	RADWU	S_N_ER_3	
2013-288T20:25:00	2013-289T01:05:00	ISS	ISS mosaic at first, then sit and stare for CIRS (TN2c, TN2d)	RADWU	S_N_ER_3	
2013-289T01:05:00	2013-289T02:05:00	ISS	ISS mosaic (TC1a)	RADWU	S_N_ER_3	
2013-289T02:05:00	2013-289T04:05:00	RADAR	Radiometry Calibration (TN2c)	RADWU	S_N_ER_8	
2013-289T04:05:00	2013-289T07:00:00	ISS	ISS mosaic (TC1a)	DFPW Normal	S_N_ER_3	Additional 01:40 of obs time at end to close gap with VIMS Occultation
2013-289T07:00:00	2013-289T12:00:00	VIMS	Stellar Occultation: R Lyrae - brought over from XD segment (RN2a)	DFPW Normal	S_N_ER_3	May possibly get an additional 01:40 of obs time at start, or additional 20 minutes at end.
2013-289T12:00:00	2013-289T12:20:00	Undecided at Integration		DFPW Normal	S_N_ER_3	Decide with SIP lead if gap should precede or follow D/L turn
2013-289T12:20:00	2013-289T13:00:00	SP Turn to Earth for Downlink	XBAND to Earth, NEG_Y to Saturn, (0.0, 0.0, -9.5 deg offset)	DFPW Normal	S_N_ER_3	Secondary pointing is MIMI-preference
2013-289T13:00:00	2013-289T14:30:00	Y-Bias Window		DFPW Normal	S_N_ER_3	
2013-289T14:30:00	2013-290T00:00:00	Goldstone 70M		DFPW Normal	RTE_N_SPB	Rolling/SRU