

190TI T91

C/A Altitude = 970 km

Delivered: September 24, 2012

Start Time	End Time	Prime Activity	Observation Detail	Operational Mode	Telemetry Mode	Comments
2013-143T01:46:00	2013-143T02:26:00	SP Turn to Waypoint	NEG_Y to Titan, NEG_X to NTP	DFPW Normal	S_N_ER_3	
2013-143T02:26:00	C/A-14:51:55	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
C/A-14:51:55	-13:00	CIRS	Template M3 (TC1b)	DFPW Normal	S_N_ER_3	ISS rider
-13:00	-09:00	CIRS	Template N1 (TC1b, TN1c aerosol)	DFPW Normal; then RADWU at -09:15	S_N_ER_3, then S_N_ER_5A at -09:15 for 15 min	RADAR warm-up begins at -09:15
-09:00	-06:00	CIRS	Template R1 (TN1c or TC1b, decided in implementation)	RADWU	S_N_ER_3	
-06:00	-02:15	RADAR	Templates R1 + L (TN2c)	RADRWA	S_N_ER_8	ISS, VIMS sleep.
-02:15	-01:12	RADAR Scatterometry/Radiometry	CAPS pick secondary except for SAR (TN2c, TN1a)	RADRWA	S_N_ER_8	ISS, VIMS sleep.
-01:12	-00:31	RADAR High-Altitude SAR	(TC1a, TN1a, TN1b, TN2b)	RADRWA	S_N_ER_8	ISS, VIMS sleep.
-00:31	-00:30	RWA to RCS Transition		RADRCS	S_N_ER_8	Set deadband to (2, 2, 20 mrad)
-00:30	-00:18	RADAR Altimetry	(TN2b)	RADRCS	S_N_ER_8	
-00:18	-00:10	RADAR SAR	use secondary NEG_X to Titan_SC_RAM	RADRCS	S_N_ER_8	
-00:10	0	RADAR Altimetry	(TN2b)	RADRCS	S_N_ER_8	RADAR to check what a roll about Z does to altimetry
2013-143T17:32:55		CLOSEST APPROACH	NEG_Z to Titan, CAPS riding along picking secondary when possible (TC2a)			Altimetry at North Pole - 240W, Ligeia Mare
0	+00:30	RADAR Altimetry	(TN2b)	RADRCS	S_N_ER_8	
+00:30	+00:50	RADAR High-Altitude SAR	(TC1a, TN1a, TN1b, TN2b)	RADRCS	S_N_ER_8	
+00:50	+01:12	RCS to RWA Transition		RADRWA	S_N_ER_8	Set deadband to (2, 2, 20 mrad) through transition
+01:12	+02:15	RADAR Scatterometry/Radiometry	(TN2c, TN1a)	RADRWA	S_N_ER_8	ISS, VIMS sleep
+02:15	+06:00	RADAR	Templates L + H1 (TN2c)	RADRWA	S_N_ER_8	ISS, VIMS sleep
+06:00	+09:00	ISS	Template H1 (TC1a, TN1a, TN2c - could also be TC1b and/or TN1c, depending on geometry, or TN2d, depending on timing.)	DFPW Normal	S_N_ER_3	
+09:00	+14:00	CIRS	Template C (TN1c, TN2c for VIMS rider --add for any VIMS later than +02:00)	DFPW Normal	S_N_ER_3	VIMS rider
+14:00	C/A+22:03:05	CIRS	Template A2 (TC1b)	DFPW Normal	S_N_ER_3	ISS rider
C/A+22:03:05	2013-144T15:51:00	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
2013-144T15:51:00	2013-144T16:31:00	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
2013-144T16:31:00	2013-145T01:31:00	Madrid 70M		DFPW Normal	RTE_N_SPB	Rolling
2013-145T01:31:00	2013-145T03:31:00	Goldstone 70M		DFPW Normal	RTE_N_SPB	Rolling, Dual playback for RADAR, -00:18 to +00:30
2013-145T03:31:00	2013-145T04:11:00	SP Turn to Waypoint	NEG_Y to Titan, NEG_X to NTP	DFPW Normal	S_N_ER_3	
2013-145T04:11:00	2013-145T08:11:00	ISS	ISS mosaic at first, then sit and stare for CIRS (TN2c, TN2d)	DFPW Normal	S_N_ER_3	
2013-145T08:11:00	2013-145T12:11:00	ISS	ISS mosaic at first, then sit and stare for CIRS (TN2c, TN2d)	DFPW Normal	S_N_ER_3	
2013-145T12:11:00	2013-145T16:11:00	ISS	ISS mosaic at first, then sit and stare for CIRS (TN2c, TN2d)	RADWU	S_N_ER_5A for 15 min, then S_N_ER_3 afterwards	
2013-145T16:11:00	2013-145T18:51:00	ISS	ISS mosaic at first, then sit and stare for CIRS (TN2c, TN2d)	RADWU	S_N_ER_3	
2013-145T18:51:00	2013-145T20:51:00	RADAR	Radiometry Calibration (TN2c)	RADWU	S_N_ER_8	
2013-145T20:51:00	2013-145T21:51:00	ISS	ISS mosaic (TN2c, TN2d)	DFPW Normal	S_N_ER_3	
2013-145T21:51:00	2013-145T22:31:00	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
2013-145T22:31:00	2013-146T00:01:00	Y-Bias Window		DFPW Normal	S_N_ER_3	
2013-146T00:01:00	2013-146T03:01:00	Goldstone 70M		DFPW Normal	RTE_N_SPB	Rolling/SRU
2013-146T03:01:00	2013-146T09:01:00	Goldstone 34M		DFPW Normal	RTE_N_SPB	Rolling/SRU