

194TI_T92

C/A Altitude = 964 km

Delivered: December 11, 2012

Start Time	End Time	Prime Activity	Observation Detail	Operational Mode	Telemetry Mode	Comments
2013-190T22:26:00	2013-190T23:06:00	SP Turn to Waypoint	NEG_Y to Titan, NEG_X to NEP	DFPW Normal	S_N_ER_3	Waypoint goes bad near C/A but OK due to custom period.
2013-190T23:06:00	C/A-14:00:47	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
C/A-14:00:47	-12:00	ISS	Template D2 extended (TC1a, TC1b, TN1a, TN2c)	DFPW Normal	S_N_ER_3	
-12:00	-09:00	CIRS	Template D2 reversed (TN1c)	DFPW Normal	S_N_ER_3	VIMS rider
-09:00	-06:00	CIRS	Template R1 (TN1c or TC1b, decided in implementation)	RADWU	S_N_ER_5A for 15 min, then S_N_ER_3	
		Begin Custom Period				
-06:00	-02:15	RADAR	Templates L + R1 (TN2c)	RADRWA	S_N_ER_8	ISS, VIMS sleep
-02:15	-01:12	RADAR scatterometry/radiometry	(TN2c, TN1a)	RADRWA	S_N_ER_8	ISS, VIMS sleep
-01:12	-00:31	RADAR High-Altitude SAR	(TC1a, TN1a, TN1b, TN2b)	RADRCS	S_N_ER_8	
-00:31	-00:30	RWA to RCS Transition	(TC1a, TN1a, TN1b, TN2b)	RADRCS	S_N_ER_8	Set deadband to (0.5, 0.5, 2.0 mrad) for RADAR
-00:30	-00:18	RADAR Altimetry	(TN2b)	RADRCS	S_N_ER_8	
-00:18	0	RADAR SAR	(TC1a, TN1a, TN1b, TN2b)	RADRCS	S_N_ER_8	
2013-191T13:21:47		CLOSEST APPROACH	NEG_Z to Titan, NEG_X to RAM, INMS riding along at C/A (TC2a)			T92 Left-look/T93 Left-Look Priority pair for stereo/change on small lakes
0	+00:18	RADAR SAR	(TC1a, TN1a, TN1b, TN2b)	RADRCS	S_N_ER_8	INMS rider minor CIRS heating possible
+00:18	+00:30	RADAR Altimetry	(TN2b)	RADRCS	S_N_ER_8	may need to change secondary to avoid additional heating to CIRS
+00:30	+00:50	RADAR High-Altitude SAR	(TC1a, TN1a, TN1b, TN2b)	RADRCS	S_N_ER_8	
+00:50	+01:00	RADAR	RADAR hands off to ORS attitude at +01:00 (TN2c, TN1a)	RADRCS	S_N_ER_8	
+01:00	+01:22	RCS to RWA Transition		DFPW Normal	S_N_ER_3	Set deadband to (2.0, 2.0, 20.0 mrad) through transition
+01:22	+02:15	VIMS	(TC1a, TN2c)	DFPW Normal	S_N_ER_3	
+02:15	+05:00	VIMS	Template Y (TN1c)	DFPW Normal	S_N_ER_3	
+05:00	+09:00	VIMS	Template I (TC1a, TN2c)	DFPW Normal	S_N_ER_3	ISS rider
		End Custom Period				
+09:00	C/A+13:54:13	ISS	(TC1a, TN1a, TN2c)	DFPW Normal	S_N_ER_3	
C/A+13:54:13	2013-192T03:31:00	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
2013-192T03:31:00	2013-192T04:11:00	SP Turn to Earth for Downlink	XBAND to Earth, NEG_Y to 114.0/-48.0	DFPW Normal	S_N_ER_3	Secondary pointing is RA/DEC equivalent of MIMI preference with additional offset due to CIRS Heating (NEG_Y to Saturn, -45 deg roll offset)
2013-192T04:11:00	2013-192T13:11:00	Canberra 70M		DFPW Normal	RTE_N_SPB	Rolling
2013-192T13:11:00	2013-192T15:11:00	Madrid 70M		DFPW Normal	RTE_N_SPB	Rolling, Dual playback for RADAR, -00:18 to +00:18
2013-192T15:11:00	2013-192T15:51:00	SP Turn to Waypoint	NEG_Y to Titan, NEG_X to 354.0/28.0	DFPW Normal	S_N_ER_3	
2013-192T15:51:00	2013-192T19:51:00	ISS	ISS mosaic at first, then sit and stare for CIRS	DFPW Normal	S_N_ER_3	
2013-192T19:51:00	2013-192T23:51:00	ISS	ISS mosaic at first, then sit and stare for CIRS	DFPW Normal	S_N_ER_3	
2013-192T23:51:00	2013-193T03:51:00	ISS	ISS mosaic at first, then sit and stare for CIRS	DFPW Normal	S_N_ER_3	
2013-193T03:51:00	2013-193T07:51:00	ISS	ISS mosaic at first, then sit and stare for CIRS	DFPW Normal	S_N_ER_3	
2013-193T07:51:00	2013-193T11:51:00	ISS	ISS mosaic at first, then sit and stare for CIRS	DFPW Normal, then RADWU at 11:36	S_N_ER_3, then S_N_ER_5A at 11:36 for 15 min	
2013-193T11:51:00	2013-193T15:31:00	ISS	ISS mosaic at first, then sit and stare for CIRS	RADWU	S_N_ER_3	
2013-193T15:31:00	2013-193T17:31:00	RADAR	Radiometry Calibration	RADWU	S_N_ER_8	
2013-193T17:31:00	2013-193T18:31:00	ISS	ISS mosaic	DFPW Normal	S_N_ER_3	
2013-193T18:31:00	2013-193T19:11:00	SP Turn to Earth for Downlink	XBAND to Earth, NEG_Y to 114.0/-48.0	DFPW Normal	S_N_ER_3	
2013-193T19:11:00	2013-193T20:41:00	Y-Bias Window		DFPW Normal	S_N_ER_3	
2013-193T20:41:00	2013-194T23:41:00	Goldstone 70M		DFPW Normal	RTE_N_SPB	Rolling
2013-193T23:41:00	2013-194T05:41:00	Goldstone 34M		DFPW Normal	RTE_N_SPB	Rolling for 1st 3 hours of downlink