

**091TI T46**

C/A Altitude = 1100 km

Delivered: January 11, 2008

Start Time	End Time	Prime Activity	Observation Detail	Operational Mode	Telemetry Mode	Comments
2008-307T19:22:00	2008-307T20:02:00	SP Turn to Waypoint	NEG_Y to Titan, POS_X to NTP	DFPW Normal	S_N_ER_3	
2008-307T20:02:00	C/A - 21:17:50	OD Uncertainty Dead Time		DFPW Normal	S_N_ER_3	
C/A - 21:17:50	-13:00	CIRS	Template A	DFPW Normal	S_N_ER_3	
-13:00	-09:00	CIRS	Template C	DFPW Normal	S_N_ER_3	
-09:00	-05:00	ISS	Template H	DFPW Normal	S_N_ER_3	
-05:00	-03:30	ISS	Template S2	DFPW Normal	S_N_ER_3	
-03:30	-03:29	RWA to RCS Transition		ORSRCS	S_N_ER_3	set deadband to (0.5, 0.5, 0.5 mrad)
-03:29	-01:28	CIRS	Template S2	ORSRCS, then RSS3RCS at -03:09	S_N_ER_3	
-01:28	-01:26	SP Turn to Waypoint	XBAND to Earth, POS_X to 72.61/51.84	RSS3RCS	S_N_ER_3	
-01:26	-00:14	RSS Bistatic	XBAND to Titan, NEG_X to SUN	RSS3RCS	S_N_ER_3, then S_N_ER_2 at -00:30	set deadband to (0.5, 0.5, 2.0 mrad)
-00:14	0	RSS Occultation	XBAND to Earth, POS_X to Plasma_RAM	RSS3RCS	S_N_ER_2	
2008-308T17:34:50		<b>CLOSEST APPROACH</b>	<b>XBAND to Earth, NEG_X to RAM</b> (Check - 1: NEG_Y to RAM, 2: NEG_X to Co-Rotating Plasma RAM for contamination)			
0	+00:19	RSS Occultation	XBAND to Earth, POS_X to Plasma_RAM	RSS3RCS	S_N_ER_2	
+00:19	+01:20	RSS Bistatic	XBAND to Titan, NEG_X to SUN	RSS3RCS	S_N_ER_2, then S_N_ER_3 at +00:30	
+01:16:25	+01:17:05	SP Turn to Waypoint, Part 1 of 2-Part Turn	XBAND to Earth, POS_X to 72.61/51.84 (0.0, 0.0, 2.0 deg offset)	RSS3RCS	S_N_ER_3	30 second turn, 10 sec margin.
+01:17:05	+01:29	SP Turn to Waypoint, Part 2 of 2-Part Turn	NEG_Y to Titan, NEG_X to NTP	RSS3RCS	S_N_ER_3	00:11:55 dur, 30 sec margin
+01:29	+01:51	RCS to RWA Transition		RSSK	S_N_ER_3	keep K-band powered on for the RSS GSE (Gravity Science Enhancement) during Downlink pass.
+01:51	+09:00	UVIS	Template X	RSSK	S_N_ER_3	
+09:00	+10:00	ISS	Template N	RSSK	S_N_ER_3	
+10:00	+13:00	CIRS	Template N	RSSK	S_N_ER_3	
+13:00	+14:00	ISS	Template M2	RSSK	S_N_ER_3	
+14:00	C/A + 15:38:10	CIRS	Template M2	RSSK	S_N_ER_3	
C/A + 15:38:10	2008-309T09:28:00	OD Uncertainty Dead Time		RSSK	S_N_ER_3	
2008-309T09:28:00	2008-309T10:08:00	SP Turn to Earth for Downlink	XBAND to Earth, POS_X to NEP	RSSK	S_N_ER_3	
2008-309T10:08:00	2008-309T19:08:00	Goldstone 70M	XBAND to Earth, Rolling	RSSK	RTE_N_SPB	Split Roll; RSS GSE