

133TI T70

C/A Altitude = 880 km

Delivered: October 16, 2009

| Start Time | End Time | Prime Activity | Observation Detail | Operational Mode | Telemetry Mode | Comments |
|-------------------|-------------------|-----------------------------------|--|------------------|----------------|--|
| 2010-171T11:11:00 | 2010-171T11:51:00 | SP Turn to Waypoint | NEG_Y to Titan, NEG_X to Sun | DFPW Normal | S_N_ER_3 | |
| 2010-171T11:51:00 | C/A - 13:21:17 | OD Uncertainty Dead Time | | DFPW Normal | S_N_ER_3 | |
| C/A - 13:21:17 | -13:00 | CIRS | Template M4 | DFPW Normal | S_N_ER_3 | |
| -13:00 | -10:00 | CIRS | Template N | DFPW Normal | S_N_ER_3 | |
| -10:00 | -09:00 | ISS | Template N | DFPW Normal | S_N_ER_3 | |
| -09:00 | -05:00 | CIRS | Template R | DFPW Normal | S_N_ER_3 | |
| -05:00 | -02:15 | CIRS | Template T | DFPW Normal | S_N_ER_3 | |
| | | Begin Custom Period | | | | |
| -02:15 | -01:15 | CIRS | CIRS turns to CAPS attitude | DFPW Normal | S_N_ER_3 | CAPS Rider |
| -01:15 | -01:14 | RWA to RCS Transition | Suspend SID (SRU violations) | ORSRCS | S_N_ER_3 | Set deadband to (2, 2, 2 mrad) |
| -01:14 | -00:29 | CAPS | Requires sit-and-stare | ORSRCS | S_N_ER_3 | |
| -00:29 | 0 | MAG Science; Engineering Prime | Minimum Torque Attitude required to be stable; ENGR turns from CAPS attitude | ORSRCS | S_N_ER_3 | |
| 2010-172T01:27:43 | | CLOSEST APPROACH | | | | Lowest flyby altitude of the mission |
| 0 | +00:27 | MAG Science; Engineering Prime | ENGR turns to UVIS attitude for occultation prior to transition. Must be at occultation attitude by +00:27 | ORSRCS | S_N_ER_3 | |
| +00:27 | +00:48:05 | RCS to RWA Transition | Enable SID, UVIS Stellar Occultation | ORSRCS | S_N_ER_3 | Set deadband to (0.5, 0.5, 0.5 mrad) through the transition for UVIS |
| +00:48:05 | +01:07 | UVIS Stellar Occultation | Stellar Occultation: Alpha Virginis | DFPW Normal | S_N_ER_3 | |
| +01:07 | +02:00 | VIMS | VIMS turns from UVIS attitude | DFPW Normal | S_N_ER_3 | |
| | | End Custom Period | | | | |
| +02:00 | +05:00 | VIMS | Template Y | DFPW Normal | S_N_ER_3 | |
| +05:00 | +08:30 | VIMS | Template I | DFPW Normal | S_N_ER_3 | |
| +08:30 | +09:00 | ISS | Template I | DFPW Normal | S_N_ER_3 | |
| +09:00 | C/A + 14:00 | VIMS | Template V | DFPW Normal | S_N_ER_3 | |
| C/A + 14:00 | 2010-172T15:43:00 | OD Uncertainty Dead Time | | DFPW Normal | S_N_ER_3 | |
| 2010-172T15:43:00 | 2010-172T16:23:00 | SP Turn to Earth for Downlink | XBAND to Earth, POS_X to NEP | DFPW Normal | S_N_ER_3 | |
| 2010-172T16:23:00 | 2010-172T22:00:00 | Madrid 70M | | DFPW Normal | RTE_N_SPB | Note: G70 is down for extended maintenance. |
| 2010-172T22:00:00 | 2010-173T04:56:00 | Goldstone 34M HEF | | DFPW Normal | RTE_N_SPB | Dual Playback for ENGR/AACS, -00:29 to +00:18 |
| 2010-173T04:56:00 | 2010-173T05:36:00 | SP Turn to Waypoint | NEG_Y to Titan, NEG_X to Sun | DFPW Normal | S_N_ER_3 | |
| 2010-173T05:36:00 | 2010-173T07:36:00 | CAPS | Magnetosphere Boundary Pointing Campaign | DFPW Normal | S_N_ER_3 | |
| 2010-173T07:36:00 | 2010-173T17:46:00 | ISS | Long cloud observation | DFPW Normal | S_N_ER_3 | |
| 2010-173T17:46:00 | 2010-173T18:26:00 | SP Turn to Earth for Downlink | XBAND to Earth, POS_X to NEP | DFPW Normal | S_N_ER_3 | |
| 2010-173T18:26:00 | 2010-173T19:56:00 | CAPS | | DFPW Normal | S_N_ER_3 | Includes RWA Bias window |
| 2010-173T19:56:00 | 2010-174T04:56:00 | Goldstone 34M | | DFPW Normal | RTE_N_SPB | |
| 2010-174T04:56:00 | 2010-174T05:36:00 | SP Turn to Waypoint | NEG_Y to Titan, NEG_X to Sun | DFPW Normal | S_N_ER_3 | |
| 2010-174T05:36:00 | 2010-174T12:00:00 | ISS | Long cloud observation | DFPW Normal | S_N_ER_3 | |
| 2010-174T12:00:00 | 2010-174T14:00:00 | CAPS | Magnetosphere Boundary Pointing Campaign | DFPW Normal | S_N_ER_3 | |
| 2010-174T14:00:00 | 2010-174T15:15:00 | ISS | Titan cloud monitoring | DFPW Normal | S_N_ER_3 | |
| 2010-174T15:15:00 | 2010-175T01:16:00 | CIRS | Out of Discipline observation: Rings polarization | DFPW Normal | S_N_ER_3 | |
| 2010-175T01:16:00 | 2010-175T01:56:00 | SP Turn to Earth for Downlink | XBAND to Earth, NEG_Y to 269.0/2.0 | 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 |
| 2010-175T01:56:00 | 2010-175T10:56:00 | Canberra 70M | | DFPW TCM | RTE_N_SPB | |