

**114TI T58**

C/A Altitude = 965 km

Delivered: September 19, 2008

| Start Time        | End Time          | Prime Activity                | Observation Detail   | Operational Mode    | Telemetry Mode                      | Comments  |
|-------------------|-------------------|-------------------------------|--|---------------------|-------------------------------------|---|
| 2009-189T04:00:00 | 2009-189T04:30:00 | SP Turn to Waypoint           | NEG_Y to Titan, NEG_X to Sun   | DFPW Normal         | S_N_ER_3                            |   |
| 2009-189T04:30:00 | C/A - 12:19:04    | OD Uncertainty Dead Time      |  | DFPW Normal         | S_N_ER_3                            |   |
| C/A - 12:19:04    | -09:00            | VIMS                          | Template O   | DFPW Normal         | S_N_ER_3                            |   |
| -09:00            | -05:10            | UVIS                          | Template X   | DFPW Normal         | S_N_ER_3                            |   |
| -05:10            | -02:20            | UVIS                          | Template X   | RADWU               | S_N_ER_5A for 15 min, then S_N_ER_3 |   |
| -02:20            | -01:32            | VIMS                          |  | RADWU               | S_N_ER_3                            |   |
|                   |                   | Begin Custom Period           |  |                     |                                     |   |
| -01:32            | -00:27            | UVIS Solar Occultation        | on wheels, includes turn to Occultation attitude from Waypoint   | RADWU               | S_N_ER_3                            |   |
| -00:27            | -00:26            | RWA to RCS Transition         |  | RADRCS              | S_N_ER_8                            | set deadband to (0.5, 0.5, 0.5 mrad) for UVIS                       |
| -00:26            | -00:14:30         | RADAR Turn to RADAR Attitude  |  | RADRCS              | S_N_ER_8                            |   |
| -00:14:30         | 0                 | RADAR SAR                     |  | RADRCS              | S_N_ER_8                            |   |
| 2009-189T17:04:03 |                   | CLOSEST APPROACH              | NEG_Z to Titan, NEG_X to Titan_SC_RAM  |                     |                                     |   |
| 0                 | +00:18            | RADAR SAR                     |  | RADRCS              | S_N_ER_8                            |   |
| +00:18            | +00:26            | RADAR Turn to UVIS Attitude   |  | RADRCS, then ORSRCS | S_N_ER_8                            | Transition to ORSRCS to end at +00:26                               |
| +00:26            | +00:48            | RCS to RWA Transition         | UVIS Occultation during transition (UVIS rider)  | DFPW Normal         | S_N_ER_3                            | set deadband to (0.5, 0.5, 0.5 mrad) during the transition for UVIS |
| +00:48            | +01:25            | UVIS Stellar Occultation      | Stellar Occultation: Eta Ursae Majoris, UVIS to return to waypoint (20 min added at end for turn time) | DFPW Normal         | S_N_ER_3                            |   |
|                   |                   | End Custom Period             |  |                     |                                     |   |
| +01:25            | +02:00            | VIMS                          |  | DFPW Normal         | S_N_ER_3                            |   |
| +02:00            | +03:30            | CIRS                          | Template S2  | DFPW Normal         | S_N_ER_3                            |   |
| +03:30            | +05:00            | ISS                           | Template S2  | DFPW Normal         | S_N_ER_3                            |   |
| +05:00            | +09:00            | ISS                           | Template H   | DFPW Normal         | S_N_ER_3                            |   |
| +09:00            | +12:00            | CIRS                          | Template D2  | DFPW Normal         | S_N_ER_3                            |   |
| +12:00            | +14:00            | ISS                           | Template D2  | DFPW Normal         | S_N_ER_3                            |   |
| +14:00            | C/A + 23:00       | VIMS                          | Template B   | DFPW Normal         | S_N_ER_3                            |   |
| C/A + 23:00       | 2009-190T16:13:00 | OD Uncertainty Dead Time      |  | DFPW Normal         | S_N_ER_3                            |   |
| 2009-190T16:13:00 | 2009-190T16:53:00 | SP Turn to Earth for Downlink | XBAND to Earth, NEG_X to NEP   | DFPW Normal         | S_N_ER_3                            |   |
| 2009-190T16:53:00 | 2009-191T02:53:00 | Goldstone 70M                 |  | DFPW Normal         | RTE_N_SPB                           | Rolling for 1st 6 hours of downlink                                 |
| 2009-191T02:53:00 | 2009-191T04:53:00 | Canberra 70M                  |  | DFPW Normal         | RTE_N_SPB                           | Dual Playback for RADAR, -00:27 to +00:06                           |