

**211TI T108**

C/A Altitude = 970 km

Delivered: May 02, 2014

| Start Time        | End Time          | Prime Activity                        | Observation Detail   | Operational Mode | Telemetry Mode                       | Comments  |
|-------------------|-------------------|---------------------------------------|--|------------------|--------------------------------------|---|
| 2015-011T01:47:00 | 2015-011T02:27:00 | SP Turn to Waypoint                   | NEG_Y to Titan, POS_X to 308.0/6.0                                     | DFPW Normal      | S_N_ER_3                             |   |
| 2015-011T02:27:00 | C/A-17:06:36      | OD Uncertainty Dead Time              |  | DFPW Normal      | S_N_ER_3                             |   |
| C/A-17:06:36      | -16:18            | NONE                                  |  | DFPW Normal      | S_N_ER_3                             |   |
| -16:18            | -12:33            | UVIS Rings PIE (Pre-Integrated Event) | UVIS Stellar Occultation: Delta Ceti (2015-011T03:30:00 - 07:15:00)    | DFPW Normal      | S_N_ER_3                             |   |
| -12:33            | -09:00            | CIRS                                  | Template C modified (TN1c)   | DFPW Normal      | S_N_ER_3                             | VIMS rider  |
| -09:00            | -05:00            | CIRS                                  | Template F (TC1b or TN1c)  | DFPW Normal      | S_N_ER_3                             |   |
| -05:00            | -02:15            | VIMS                                  | Template Y (TC1a, TN1a depending on pointing, and TN2c)                | RADWU            | S_N_ER_5A, for 15 min, then S_N_ER_3 | RWA SLOW at -02:15  |
| -02:15            | -01:12            | RADAR Scatterometry/Radiometry        |  | RADRWA           | S_N_ER_8                             | ISS, UVIS, VIMS off until 02:15. MIMI, RPWS sleep.                                |
| -01:12            | -01:11            | RWA to RCS Transition                 |  | RADRCSS          | S_N_ER_8                             | Set deadband to (0.5, 0.5, 2.0 mrad), Turn back on MAPS instruments.              |
| -01:11            | -00:30            | RADAR High-Altitude SAR               |  | RADRCSS          | S_N_ER_8                             |   |
| -00:30            | -00:18            | RADAR Altimetry                       |  | RADRCSS          | S_N_ER_8                             |   |
| -00:18            | 0                 | RADAR SAR                             | (TC1a, TN1a, TN1b, TN2b, TN2c little)                                  | RADRCSS          | S_N_ER_8                             | INMS Rider  |
| 2015-011T19:48:36 |                   | CLOSEST APPROACH                      | NEG_Z to Titan (TC2a)  |                  |                                      | Change detection and stereo on dark lakes (N.B.: Right-look SAR fills Kraken gap) |
| 0                 | +00:18            | RADAR SAR                             | (TC1a, TN1a, TN1b, TN2b, TN2c little)                                  | RADRCSS          | S_N_ER_8                             | INMS Rider  |
| +00:18            | +00:30            | RADAR Altimetry                       |  | RADRCSS          | S_N_ER_8                             |   |
| +00:30            | +00:50            | RADAR High-Altitude SAR               |  | RADRCSS          | S_N_ER_8                             |   |
| +00:50            | +01:12            | RCS to RWA Transition                 |  | RADRWA           | S_N_ER_8                             | Set deadband to (2.0, 2.0, 20.0 mrad) through transition                          |
| +01:12            | +02:15            | RADAR Scatterometry/Radiometry        |  | RADRWA           | S_N_ER_8                             | ISS, UVIS, VIMS, MIMI, RPWS sleep   |
| +02:15            | +05:00            | RADAR                                 | Templates L + R1 (TN2c, TN2c)  | RADRWA           | S_N_ER_8                             |   |
| +05:00            | +09:00            | CIRS                                  | Template R1 (TN1c or TC1b, decided in implementation)                  | DFPW Normal      | S_N_ER_3                             | Turn on all instruments.  |
| +09:00            | +13:00            | CIRS                                  | Template N1 (TC1b, TN1c aerosol)                                       | DFPW Normal      | S_N_ER_3                             |   |
| +13:00            | C/A+19:03:24      | CIRS                                  | Template M4 (TC1b, TN1c on outbound)                                   | DFPW Normal      | S_N_ER_3                             |   |
| C/A+19:03:24      | 2015-012T15:07:00 | OD Uncertainty Dead Time              |  | DFPW Normal      | S_N_ER_3                             |   |
| 2015-012T15:07:00 | 2015-012T15:47:00 | 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   |
| 2015-012T15:47:00 | 2015-013T03:17:00 | Canberra 70M                          |  | DFPW Normal      | RTE_N_SPB                            |   |
| 2015-013T03:17:00 | 2015-013T06:17:00 | Madrid 70M                            |  | DFPW Normal      | RTE_N_SPB                            | Dual playback for RADAR, -00:18 to +00:18   |
| 2015-013T06:17:00 | 2015-013T06:57:00 | SP Turn to Waypoint                   | NEG_Z to Titan, NEG_X to NEP   | DFPW Normal      | S_N_ER_3                             |   |
| 2015-013T06:57:00 | 2015-013T10:57:00 | ISS                                   | ISS mosaic at first, then sit and stare for CIRS and VIMS (TN2c, TN2d) | DFPW Normal      | S_N_ER_3                             |   |
| 2015-013T10:57:00 | 2015-013T14:22:00 | ISS                                   | ISS mosaic at first, then sit and stare for CIRS and VIMS (TN2c, TN2d) | DFPW Normal      | S_N_ER_3                             |   |
| 2015-013T14:22:00 | 2015-013T15:02:00 | SP Turn to Earth for Downlink         | XBAND to Earth, NEG_X to 314.0/33.0                                    | DFPW Normal      | S_N_ER_3                             | Secondary pointing is CDA preference  |
| 2015-013T15:02:00 | 2015-013T16:32:00 | Y-Bias Window                         |  | DFPW Normal      | S_N_ER_3                             |   |
| 2015-013T16:32:00 | 2015-014T19:32:00 | Canberra 70M                          |  | DFPW Normal      | RTE_N_SPB                            |   |
| 2015-013T19:32:00 | 2015-014T01:32:00 | Canberra 34M                          |  | DFPW Normal      | RTE_N_SPB                            |   |