

**236TI T120**

C/A Altitude = 975 km

Delivered: October 28, 2015

| Start Time        | End Time          | Prime Activity                 | Observation Detail  | Operational Mode | Telemetry Mode                              | Comments   |
|-------------------|-------------------|--------------------------------|---|------------------|---|--|
| 2016-159T02:45:00 | 2016-159T03:25:00 | SP Turn to Waypoint            | NEG_Y to Titan, NEG_X to NTP                                | DFPW Normal      | S_N_ER_3                                    | From XBAND to Earth, NEG_Y to Saturn (0.0, 0.0, -9.5 deg offset) |
| 2016-159T03:25:00 | C/A-10:26:18      | OD Uncertainty Dead Time       |   | DFPW Normal      | S_N_ER_3                                    |  |
|                   |                   | Begin Custom Period            |   |                  |   |  |
| C/A-10:26:18      | -09:00            | CIRS                           | Template F extended (TC1b or TN1c)                          | DFPW Normal      | S_N_ER_3                                    |  |
| -09:00            | -05:00            | CIRS                           | Template F (TC1b or TN1c)                                   | DFPW Normal      | S_N_ER_3                                    |  |
| -05:00            | -02:30            | CIRS                           | Template E (TN2c, surface temperature)                      | RADWU            | S_N_ER_5A for 1st 15 minutes, then S_N_ER_3 |  |
| -02:30            | -01:15            | CIRS                           | (TN1c)  | RADWU            | S_N_ER_3                                    |  |
| -01:15            | -01:14            | RWA to RCS Transition          |   | RADRCs           | S_N_ER_3                                    | Set deadband to (0.5, 2.0, 0.5 mrad)                             |
| -01:14            | -00:30            | CIRS                           | CIRS hands off to RADAR attitude                            | RADRCs           | S_N_ER_3                                    |  |
| -00:30            | -00:18            | RADAR                          | (TN2b)  | RADRCs           | S_N_ER_8                                    | Set deadband to (0.5, 0.5, 2.0 mrad)                             |
| -00:18            | 0                 | RADAR SAR                      | (TN1a, TN1b, TN2b, TN2c)                                    | RADRCs           | S_N_ER_8                                    |  |
| 2016-159T14:06:18 |                   | CLOSEST APPROACH               | NEG_Z to Titan, NEG_X to RAM (TC2a)                         |                  |   | Global shape area 3 (substitute for T68)                         |
| 0                 | +00:15            | RADAR design for INMS          | (TN1c, TC2a)  | RADRCs           | S_N_ER_8                                    | RADAR rider  |
| +00:15            | +00:30            | RADAR                          | (TN1c, TC2a)  | RADRCs           | S_N_ER_8                                    |  |
| +00:30            | +00:52            | RCS to RWA Transition          |   | RADRWA           | S_N_ER_8                                    | ISS, VIMS sleep. UVIS in "no HDAC" config; no CDA articulation   |
| +00:52            | +01:37            | RADAR High-Altitude SAR        | (TN1a, TN1b, TN2b, TN2c)                                    | RADRWA           | S_N_ER_8                                    | ISS, VIMS sleep.   |
| +01:37            | +02:15            | RADAR Scatterometry/Radiometry | (TN1a)  | RADRWA           | S_N_ER_8                                    | ISS, VIMS sleep.   |
|                   |                   | End Custom Period              |   |                  |   |  |
| +02:15            | +05:00            | CIRS                           | Template T (TN2c, surface temperature)                      | DFPW Normal      | S_N_ER_3                                    |  |
| +05:00            | +09:00            | CIRS                           | Template R (TN1c or TC1b, decided in implementation)        | DFPW Normal      | S_N_ER_3                                    |  |
| +09:00            | +13:00            | CIRS                           | Template N1 (TC1b, TN1c aerosol)                            | DFPW Normal      | S_N_ER_3                                    |  |
| +13:00            | C/A+16:58:42      | CIRS                           | Template M4 (TC1b, TN1c on outbound)                        | DFPW Normal      | S_N_ER_3                                    |  |
| C/A+16:58:42      | 2016-160T07:20:00 | OD Uncertainty Dead Time       |   | DFPW Normal      | S_N_ER_3                                    |  |
| 2016-160T07:20:00 | 2016-160T08:00:00 | 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                            |
| 2016-160T08:00:00 | 2016-160T17:00:00 | Canberra 70M                   |   | DFPW Normal      | RTE_N_SPB                                   |  |
| 2016-160T17:00:00 | 2016-160T17:40:00 | SP Turn to Waypoint            | NEG_Y to Titan, NEG_X to NSP                                | DFPW Normal      | S_N_ER_3                                    |  |
| 2016-160T17:40:00 | 2016-160T18:40:00 | ISS                            | (TN2c, TN2d)  | DFPW Normal      | S_N_ER_3                                    |  |
| 2016-160T18:40:00 | 2016-160T20:40:00 | CIRS                           | (TN2c, TN2d)  | DFPW Normal      | S_N_ER_3                                    |  |
| 2016-160T20:40:00 | 2016-160T21:40:00 | ISS                            | (TN2c, TN2d)  | DFPW Normal      | S_N_ER_3                                    |  |
| 2016-160T21:40:00 | 2016-160T22:40:00 | CIRS                           | (TN2c, TN2d)  | DFPW Normal      | S_N_ER_3                                    |  |
| 2016-160T22:40:00 | 2016-160T23:35:00 | ISS                            | (TN2c, TN2d)  | DFPW Normal      | S_N_ER_3                                    |  |
| 2016-160T23:35:00 | 2016-161T00:15:00 | 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                            |
| 2016-161T00:15:00 | 2016-161T01:45:00 | Y-Bias Window                  |   | DFPW Normal      | S_N_ER_3                                    |  |
| 2016-161T01:45:00 | 2016-161T10:30:00 | Goldstone 70M                  |   | DFPW Normal      | RTE_N_SPB                                   | Rolling/SRU, Dual playback for RADAR, -00:18 to +00:15           |