

**159TI T80**

C/A Altitude = 29415 km

Delivered: January 25, 2011

| Start Time        | End Time          | Prime Activity                | Observation Detail   | Operational Mode                  | Telemetry Mode                     | Comments   |
|-------------------|-------------------|-------------------------------|--|-----------------------------------|------------------------------------|--|
| 2012-002T00:22:00 | 2012-002T01:02:00 | SP Turn to Waypoint           | NEG_Y to Titan, POS_X to 231.1/-23.9   | DFPW Normal                       | S_N_ER_3                           |  |
| 2012-002T01:02:00 | C/A-13:56:38      | OD Uncertainty Dead Time      |  | DFPW Normal                       | S_N_ER_3                           |  |
| C/A-13:56:38      | -13:00            | CIRS                          | Template M4 (TC1b)   | DFPW Normal                       | S_N_ER_3                           |  |
| -13:00            | -09:00            | CIRS                          | Template N1 (TC1b, TN1c)   | DFPW Normal                       | S_N_ER_3                           |  |
| -09:00            | -05:00            | CIRS                          | Template R (TN1c or TC1b, decided in implementation)   | DFPW Normal                       | S_N_ER_3                           |  |
| -05:00            | -02:15            | CIRS                          | Template T (TN2c)  | DFPW Normal, then RADWU at -02:30 | S_N_ER_3, then S_N_ER_5A at -02:30 |  |
| -02:15            | 0                 | ISS                           | (TC1a, TN1a, TN2d)   | RADWU                             | S_N_ER_3                           |  |
| 2012-002T15:13:38 |                   | <b>CLOSEST APPROACH</b>       | <b>NEG_Y to Titan (TC2a)</b>   | <b>RADWU</b>                      | <b>S_N_ER_3</b>                    | <b>Mid-southern trailing hemisphere (60°S, 300°W gap); C/A &gt;29,000 km</b> |
| 0                 | +02:15            | ISS                           | (TC1a, TN1a, TN2d)   | RADWU                             | S_N_ER_3                           |  |
| +02:15            | +05:00            | RADAR                         | Template L (TN2c)  | RADRWA                            | S_N_ER_8                           |  |
| +05:00            | +09:00            | VIMS Stellar Occultations     | Titan stellar occultations:<br>CW Leo at +05:31 to +05:56,<br>R Leo at +06:15 to +06:34 (TN1c) | DFPW Normal                       | S_N_ER_3                           |  |
| +09:00            | +14:00            | VIMS                          | Template V (TC1a, TC1b)  | DFPW Normal                       | S_N_ER_3                           |  |
| +14:00            | C/A+14:44:22      | VIMS                          | (TC1a, TC1b)   | DFPW Normal                       | S_N_ER_3                           |  |
| C/A+14:44:22      | 2012-003T06:13:00 | OD Uncertainty Dead Time      |  | DFPW Normal                       | S_N_ER_3                           |  |
| 2012-003T06:13:00 | 2012-003T06:53:00 | SP Turn to Earth for Downlink | XBAND to Earth, NEG_X to NEP   | DFPW Normal                       | S_N_ER_3                           |  |
| 2012-003T06:53:00 | 2012-003T08:23:00 | Y-Bias Window                 |  | DFPW Normal                       | S_N_ER_3                           |  |
| 2012-003T08:23:00 | 2012-003T18:23:00 | Goldstone 70M                 |  | DFPW Normal                       | RTE N SPB                          |  |