

123TI T64

C/A Altitude = 955 km

Delivered: March 20, 2009

| Start Time | End Time | Prime Activity | Observation Detail | Operational Mode | Telemetry Mode | Comments |
|-------------------|-------------------|-------------------------------|--|----------------------|--------------------------------------|--|
| 2009-361T09:12:00 | 2009-361T09:52:00 | SP Turn to Waypoint | NEG_Y to Titan, NEG_X to SUN (turn from XBAND to Earth, NEG_X to NEP) | DFPW Normal | S_N_ER_3 | Note: NEG_Y to Titan, NEG_X to SUN is safe through entire segment (even caboose) 22.8 min turn duration |
| 2009-361T09:52:00 | C/A - 14:09:35 | OD Uncertainty Dead Time | | DFPW Normal | S_N_ER_3 | |
| C/A - 14:09:35 | -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 | RADWU | S_N_ER_5A for 15 min., then S_N_ER_3 | |
| -02:15 | -01:16 | CIRS | NEG_Y to Titan, NEG_X to SUN | RADWU | S_N_ER_3 | |
| -01:16 | -01:15 | RWA to RCS Transition | | RADRCSS | S_N_ER_3 | set deadband to (0.5, 2.0, 0.5 mrad) |
| -01:15 | -00:38 | CIRS | NEG_Y to Titan, NEG_X to SUN | RADRCSS | S_N_ER_3 | |
| | | Begin Custom Period | | | | |
| -00:38 | -00:30 | Turn to RADAR attitude | NEG_Z to Titan, NEG_X to RAM | RADRCSS | S_N_ER_8 | Note: RADAR ok with (2.0, 2.0, 20.0 mrad) deadband if SCO desires |
| -00:30 | -00:18 | RADAR Altimetry | | RADRCSS | S_N_ER_8 | Turn time to be provided by RADAR |
| -00:18 | -00:12 | Turn to INMS attitude | NEG_X to RAM, NEG_Z to Titan | RADRCSS | S_N_ER_8 | |
| -00:12 | 0 | INMS | SAR will begin at C/A - 3 mins | RADRCSS | S_N_ER_8 | |
| 2009-362T00:16:59 | | CLOSEST APPROACH | NEG_Z to Titan, NEG_X to RAM | | | |
| 0 | +00:18 | RADAR SAR | | RADRCSS | S_N_ER_8 | |
| +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 | +00:58 | Turn to VIMS attitude | NEG_Y to Titan, NEG_X to SUN | RADRCSS, then ORSRCS | S_N_ER_8 | Transition to ORSRCS to end at +00:58 |
| | | End Custom Period | | | | |
| +00:58 | +01:22 | RCS to RWA Transition | | DFPW Normal | S_N_ER_3 | set deadband to (2.0, 2.0, 2.0 mrad) through the transition |
| +01:22 | +02:00 | VIMS | | DFPW Normal | S_N_ER_3 | |
| +02:00 | +05:00 | VIMS | Template Y | DFPW Normal | S_N_ER_3 | |
| +05:00 | +09:00 | CIRS | Template F | 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(Z) | DFPW Normal | S_N_ER_3 | |
| C/A + 23:00 | 2009-362T23:32:00 | OD Uncertainty Dead Time | | DFPW Normal | S_N_ER_3 | |
| 2009-362T23:32:00 | 2009-363T00:12:00 | SP Turn to Earth for Downlink | XBAND to Earth, NEG_Y to 263.8/8.1 | DFPW Normal | S_N_ER_3 | 21.1 min turn duration |
| 2009-363T00:12:00 | 2009-363T09:12:00 | Madrid 70M | XBAND to Earth, NEG_Y to 263.8/8.1 | DFPW Normal | RTE_N_SPB | |
| 2009-363T09:12:00 | 2009-363T09:52:00 | SP Turn to Waypoint | NEG_Y to Titan, NEG_X to SUN | DFPW Normal | S_N_ER_3 | 21.0 min turn duration |
| 2009-363T09:52:00 | 2009-363T11:52:00 | ISS | Titan cloud monitoring: ISS_NAC to Titan, NEG_X to Sun | DFPW Normal | S_N_ER_3 | |
| 2009-363T11:52:00 | 2009-363T13:52:00 | CAPS | Magnetosphere Boundary Pointing Campaign: POS_Y to COROT, PIC | DFPW Normal | S_N_ER_3 | |
| 2009-363T13:52:00 | 2009-363T15:32:00 | ISS | Titan cloud monitoring: ISS_NAC to Titan, NEG_X to Sun | DFPW Normal | S_N_ER_3 | |
| 2009-363T15:32:00 | 2009-363T23:32:00 | CIRS | Titan long integration: CIRS_FPB to Titan, NEG_Z to NSP | DFPW Normal | S_N_ER_3 | VIMS, ISS ride along with sit & stare portion of CIRS design |
| 2009-363T23:32:00 | 2009-364T04:12:00 | SP Turn to Earth for Downlink | XBAND to Earth, POS_X to NEP | DFPW Normal | S_N_ER_3 | 22.2 min turn duration |
| 2009-364T00:12:00 | 2009-364T04:12:00 | Madrid 70M | XBAND to Earth, POS_X to NEP | DFPW Normal | RTE_N_SPB | Rolling, Dual Playback for RADAR, -00:05 to +00:18 |
| 2009-364T04:12:00 | 2009-364T09:12:00 | Madrid 34M HEF | XBAND to Earth, POS_X to NEP | DFPW Normal | RTE_N_SPB | Rolling/SRU |