

**024TI\_T14**

C/A Altitude = 1879 km

| Start Time               | End Time          | Prime Activity                |
|--------------------------|-------------------|-------------------------------|
| 2006-139T19:56:00        | 2006-139T20:26:00 | SP Turn to Waypoint           |
| 2006-139T20:26:00        | 2006-139T20:41:00 | OD Uncertainty Dead Time      |
| -15:30                   | -09:00            | CIRS                          |
| -09:00                   | -07:30            | CIRS                          |
| -07:30                   | -03:22            | UVIS                          |
| -03:22                   | -03:00            | RWA to RCS Transition         |
| -03:00                   | -02:30            | UVIS                          |
|                          |                   | Begin Custom Period           |
| -02:30                   | -01:05            | CIRS                          |
| -01:05                   | -00:55            | RSS Turn                      |
| -00:55                   | +00:55            | RSS                           |
| <b>2006-140T12:18:12</b> |                   | <b>CLOSEST APPROACH</b>       |
| +00:55                   | +01:03            | RSS Turn                      |
| +01:03                   | +01:27            | RCS to RWA Transition         |
| +01:27                   | +02:15            | CIRS                          |
|                          |                   | End Custom Period             |
| +02:15                   | +10:00            | CIRS                          |
| +10:00                   | +13:00            | CDA                           |
| +13:00                   | +15:00            | CIRS                          |
| +15:00                   | +18:00            | CDA                           |
| +18:00                   | +20:58            | CIRS                          |
| 2006-141T09:11:00        | 2006-141T09:26:00 | OD Uncertainty Dead Time      |
| 2006-141T09:26:00        | 2006-141T09:56:00 | SP Turn to Earth for Downlink |
| 2006-141T09:56:00        | 2006-141T19:56:00 | Madrid 70M/34M Array          |

| Observation Detail  | Operational Mode | Telemetry Mode |
|---|------------------|----------------|
| ISS_NAC to Titan, NEG_X to Sun  | DFPW Normal      | S_N_ER_3       |
|   | DFPW Normal      | S_N_ER_3       |
| Long Integration using FP1 body vector; 60 deg. emission angle; co-aligned ORS boresights on Titan, may choose orientation to optimize pointing | DFPW Normal      | S_N_ER_3       |
| Limb observation for vertical profile of trace hydrocarbons.  | DFPW Normal      | S_N_ER_3       |
| Limb-to-limb slow scan  | DFPW Normal      | S_N_ER_3       |
|   | ORSRCS           | S_N_ER_3       |
|   | RSS3RCS          | S_N_ER_3       |
|   |                  |                |
| Limb Integration, using FP1 body vector   | RSS3RCS          | S_N_ER_3       |
| Pick up at CIRS LAT_VIEW; secondary POS_Y to NSP  | RSS3RCS          | S_N_ER_3       |
| Bistatic (Ingress) / Occultation (-15:02) / Bistatic (Egress)   | RSS3RCS          | S_N_ER_2       |
|   |                  |                |
| Leave at CIRS LAT_VIEW: ISS_NAC to Titan, NEG_X to Sun  | RSS3RCS          | S_N_ER_3       |
|   | DFPW Normal      | S_N_ER_3       |
| Far-IR Limb integration   | DFPW Normal      | S_N_ER_3       |
|   |                  |                |
| Limb integration followed by nadir temperature map; meteorology campaign  | DFPW Normal      | S_N_ER_3       |
| Eccentricity Scan   | DFPW Normal      | S_N_ER_3       |
|   | DFPW Normal      | S_N_ER_3       |
| Eccentricity Scan   | DFPW Normal      | S_N_ER_3       |
|   | DFPW Normal      | S_N_ER_3       |
|   | DFPW Normal      | S_N_ER_3       |
|   | DFPW Normal      | S_N_ER_3       |
| XBAND to Earth, POS_X to NEP  | DFPW Normal      | S_N_ER_3       |
|   | DFPW Normal      | RTE_N_SPB      |

Delivered: December 02, 2005

| Comments                                      |
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| set deadband to (0.5, 0.5, 0.5 mrad)          |
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|   |
| set deadband to (0.5, 0.5, 20 mrad) at -00:55 |
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| CDA can not heat CIRS                         |
|   |
| CDA can not heat CIRS                         |
|   |
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| NON-ROLLING agreement                         |