| 109TI_nT | C/A Altitude = 714119 km | | | | | Delivered: September 17, 2008 |
|-------------------|--------------------------|-------------------------------|---|------------------|----------------|-------------------------------------|
| Start Time | End Time | Prime Activity | Observation Detail | Operational Mode | Telemetry Mode | Comments |
| 2009-116T00:33:00 | 2009-116T01:13:00 | SP Turn to Waypoint | ISS_NAC to Titan, NEG_X to Sun | DFPW Normal | S_N_ER_3 | |
| 116T01:13:00 | 116T07:45:00 | ISS | Cloud Monitoring | DFPW Normal | S_N_ER_3 | |
| 116T07:45:00 | 116T11:30:00 | ISS | Rhea | DFPW Normal | S_N_ER_3 | |
| 116T11:30:00 | 116T21:22:00 | ISS | Cloud Monitoring | DFPW Normal | S_N_ER_3 | |
| 116T21:22:00 | 116T22:07:00 | ISS | | DFPW Normal | S_N_ER_3 | |
| 2009-116T22:07:00 | 2009-116T22:47:00 | SP Turn to Earth for Downlink | XBAND to Earth, POS_X to NEP | DFPW Normal | S_N_ER_3 | |
| 2009-116T22:47:00 | 2009-117T07:47:00 | Goldstone 34M | | DFPW Normal | RTE_N_SPB | Rolling |
| 2009-117T03:22:18 | | CLOSEST APPROACH | | | | |
| 2009-117T07:47:00 | 2009-117T08:27:00 | SP Turn to Waypoint | ISS_NAC to Titan, NEG_X to Sun | DFPW Normal | S_N_ER_3 | |
| 117T08:27:00 | 118T00:13:00 | ISS | Cloud Monitoring, with CIRS Compositional Mapping Rider | DFPW Normal | S_N_ER_3 | |
| 118T00:13:00 | 118T00:58:00 | ISS | | DFPW Normal | S_N_ER_3 | |
| 118T00:58:00 | 118T02:22:00 | ISS | Cloud Monitoring | DFPW Normal | S_N_ER_3 | |
| 118T02:22:00 | 118T04:22:00 | CAPS | | DFPW Normal | S_N_ER_3 | |
| 2009-118T04:22:00 | 2009-118T05:02:00 | SP Turn to Earth for Downlink | XBAND to Earth, NEG_Y to 123.06/-78.94 | DFPW Normal | S_N_ER_3 | |
| 2009-118T05:02:00 | 2009-118T14:02:00 | Canberra 70M Array | | DFPW TCM | RTE_N_SPB | Rolling for 1st 4 hours of downlink |