

|                                |            |                   |                                  |              |                   |   |                       |  |
|--------------------------------|------------|-------------------|----------------------------------|--------------|-------------------|---|-----------------------|--|
| TITAN FLYBYT119 SEGMENT        |            | 2016-126T19:14:00 |                                  | 003T00:00:00 | 2016-129T19:14:00 |   |                       |  |
| SP_235TI_WAYPTURN126_PRIME     |            | 2016-126T19:14:00 |                                  | 000T00:40:00 | 2016-126T19:54:00 | NEG_Y TO TITAN                            | NEG_X TO SUN          |  |
| NEW WAYPOINT                   |            | 2016-126T19:54:00 |                                  | 001T14:20:00 | 2016-128T10:14:00 | NEG_Y TO TITAN                            | NEG_X TO SUN          |  |
| SP_235TI_DEADTIME126_PRIME     |            | 2016-126T19:54:00 |                                  | 000T00:08:51 | 2016-126T20:02:51 | NEG_Y TO TITAN                            | NEG_X TO SUN          |  |
| CIRS_235TI_MIDIRTMAP001_PRIME  | I, V       | 2016-126T20:02:51 | GMB_E235_TITAN_T119-000T20:51:46 | 000T06:51:46 | 2016-127T02:54:37 | CIRS_FPB TO TITAN                         | PIC                   | COLLABORATIVE RIDER(S): ISS  |
| ISS_235TI_MONITORAD001_PRIME   | C, U, V    | 2016-127T02:54:37 | GMB_E235_TITAN_T119-000T14:00:00 | 000T02:00:00 | 2016-127T04:54:37 | ISS_NAC TO TITAN                          | NEG_X TO SUN          |  |
| CIRS_235TI_FIRNADCMP001_PRIME  | I, U, V    | 2016-127T04:54:37 | GMB_E235_TITAN_T119-000T12:00:00 | 000T03:00:00 | 2016-127T07:54:37 | CIRS_FP1 TO TITAN                         | PIC                   |  |
| CIRS_235TI_MIRLMBMAP001_PRIME  | V          | 2016-127T07:54:37 | GMB_E235_TITAN_T119-000T09:00:00 | 000T04:00:00 | 2016-127T11:54:37 | CIRS_FPB TO TITAN                         | PIC                   |  |
| BEGIN CUSTOM PERIOD            |            | 2016-127T11:54:37 | GMB_E235_TITAN_T119-000T05:00:00 | 000T00:00:01 | 2016-127T11:54:38 |   |                       |  |
| CIRS_235TI_FIRNADMAP001_PRIME  | V          | 2016-127T11:54:37 | GMB_E235_TITAN_T119-000T05:00:00 | 000T02:42:00 | 2016-127T14:36:37 | CIRS_FP1 TO TITAN                         | NEG_Z TO EARTH        | PICK UP AT NEG_Y TO TITAN, NEG_X TO SUN;<br>HAND OFF AT NEG_Y TO TITAN, NEG_Z TO EARTH.  |
| ENGR_235SC_ORSRCS127_PRIME     | R          | 2016-127T14:36:37 | GMB_E235_TITAN_T119-000T02:18:00 | 000T00:01:00 | 2016-127T14:37:37 | NEG_Y TO TITAN                            | NEG_Z TO EARTH        | PICK UP AT NEG_Y TO TITAN, NEG_Z TO EARTH;<br>HAND OFF AT NEG_Y TO TITAN, NEG_Z TO EARTH.<br>DEADBAND = (0.5, 2, 0.5) FOR CIRS   |
| CIRS_235TI_FIRLMBINT001_PRIME  | I, M, R, V | 2016-127T14:37:37 | GMB_E235_TITAN_T119-000T02:17:00 | 000T01:02:00 | 2016-127T15:39:37 | CIRS_FP1 TO TITAN                         | NEG_Z TO EARTH        | COLLABORATIVE RIDER(S): MIMI. PICK UP AT<br>NEG_Y TO TITAN, NEG_Z TO EARTH; HAND OFF AT<br>CIRS_FP1 TO TITAN, NEG_Z TO EARTH.<br>COLLABORATIVE RIDER(S): MIMI  |
| CIRS_235TI_FIRLMBAR001_PRIME   | M, R, V    | 2016-127T15:39:37 | GMB_E235_TITAN_T119-000T01:15:00 | 000T00:30:00 | 2016-127T16:09:37 | CIRS_FP1 TO TITAN                         | NEG_Z TO EARTH        | COLLABORATIVE RIDER(S): MIMI. PICK UP AT<br>CIRS_FP1 TO TITAN, NEG_Z TO EARTH; HAND OFF<br>AT CIRS_FP1 TO TITAN, NEG_Z TO EARTH.<br>COLLABORATIVE RIDER(S): MIMI   |
| CIRS_235TI_FIRLMBT001_PRIME    | M, R, V    | 2016-127T16:09:37 | GMB_E235_TITAN_T119-000T00:45:00 | 000T00:30:00 | 2016-127T16:39:37 | CIRS_FP1 TO TITAN                         | NEG_Z TO EARTH        | COLLABORATIVE RIDER(S): MIMI. PICK UP AT<br>CIRS_FP1 TO TITAN, NEG_Z TO EARTH; HAND OFF<br>AT NEG_X TO TITAN_SC_RAM, NEG_Z TO EARTH.<br>COLLABORATIVE RIDER(S): MIMI   |
| SET DEADBAND TO (2,2,2) TO ... |            | 2016-127T16:39:27 | GMB_E235_TITAN_T119-000T00:15:10 | 000T00:01:00 | 2016-127T16:40:27 |   |                       | DEADBAND = (2, 0, 2, 0)  |
| INMS_235TI_TITAN19001_PRIME    | C, M, R    | 2016-127T16:39:37 | GMB_E235_TITAN_T119-000T00:15:00 | 000T00:23:39 | 2016-127T17:03:16 | NEG_X TO TITAN_SC_RAM                     | XBAND TO EARTH        | COLLABORATIVE RIDER(S): MIMI. PICK UP AT<br>NEG_X TO TITAN_SC_RAM, NEG_Z TO EARTH;<br>HAND OFF AT XBAND TO EARTH (12.0, 8.5, -6.5<br>DEG. OFFSET), NEG_X TO TITAN_SC_RAM.<br>COLLABORATIVE RIDER(S): MIMI. USE MIMI-<br>PREFERRED SECONDARY NEG_Z TO EARTH |
| 235TI (T) T119 TITAN OUTBOU... |            | 2016-127T16:54:37 |                                  | 000T00:00:01 | 2016-127T16:54:38 |   |                       |  |
| SET DEADBAND TO (0.5,0.5,2)... |            | 2016-127T17:03:06 | GMB_E235_TITAN_T119+000T00:08:29 | 000T00:01:00 | 2016-127T17:04:06 |   |                       | DEADBAND = (0.5, 0.5, 2.0)   |
| RSS_235TI_OCC001_PRIME         | C, M       | 2016-127T17:03:16 | LUB_E235_TITAN_T119+000T00:08:39 | 000T00:18:21 | 2016-127T17:21:37 | XBAND TO EARTH                            | NEG_X TO TITAN_SC_RAM | COLLABORATIVE RIDER(S): MIMI. PICK UP AT<br>XBAND TO EARTH (12.0, 8.5, -6.5 DEG. OFFSET),<br>NEG_X TO TITAN_SC_RAM; HAND OFF AT XBAND<br>TO EARTH, NEG_X TO TITAN_SC_RAM.<br>COLLABORATIVE RIDER(S): MIMI. RSS EGRESS<br>OCULTATION OF TITAN'S ATMOSPHERE  |
| RSS_235TI_BISTATOUT001_PRIME   | C, M       | 2016-127T17:21:37 | LUB_E235_TITAN_T119+000T00:27:00 | 000T01:43:00 | 2016-127T19:04:37 | XBAND TO TITAN                            | PIC                   | COLLABORATIVE RIDER(S): MIMI. PICK UP AT<br>XBAND TO EARTH, NEG_X TO TITAN_SC_RAM;<br>HAND OFF AT NEG_Y TO TITAN, NEG_X TO SUN.<br>COLLABORATIVE RIDER(S): MIMI. EGRESS<br>BISTATIC SURFACE SCATTERING OBSERVATION   |
| END CUSTOM PERIOD              |            | 2016-127T19:04:37 | GMB_E235_TITAN_T119+000T02:10:00 | 000T00:00:01 | 2016-127T19:04:38 |   |                       |  |
| ENGR_235SC_DFPWBIA127_PPS      | C, V       | 2016-127T19:04:37 | GMB_E235_TITAN_T119+000T02:10:00 | 000T00:21:07 | 2016-127T19:25:44 |   |                       | DEADBAND: (2, 2, 2).   |
| VIMS_235TI_REGMAP001_PRIME     | C, I       | 2016-127T19:26:37 | GMB_E235_TITAN_T119+000T02:32:00 | 000T02:28:00 | 2016-127T21:54:37 | VIMS_IR TO TITAN                          | NEG_X TO SUN          |  |
| VIMS_235TI_MEDRES001_PRIME     | C, I       | 2016-127T21:54:37 | GMB_E235_TITAN_T119+000T05:00:00 | 000T04:00:00 | 2016-128T01:54:37 | VIMS_IR TO TITAN                          | NEG_X TO SUN          | COLLABORATIVE RIDER(S): ISS  |
| CIRS_235TI_FIRNADCMP002_PRIME  | I, U, V    | 2016-128T01:54:37 | GMB_E235_TITAN_T119+000T09:00:00 | 000T04:00:00 | 2016-128T05:54:37 | CIRS_FP1 TO TITAN                         | PIC                   |  |
| CIRS_235TI_MIDIRTMAP002_PRIME  | I, V       | 2016-128T05:54:37 | GMB_E235_TITAN_T119+000T13:00:00 | 000T03:24:23 | 2016-128T09:19:00 | CIRS_FPB TO TITAN                         | PIC                   |  |
| SP_235TI_DEADTIME128_PRIME     |            | 2016-128T09:19:00 | GMB_E235_TITAN_T119+000T16:24:23 | 000T00:15:00 | 2016-128T09:34:00 | NEG_Y TO TITAN                            | NEG_X TO SUN          |  |
| SP_235EA_DLTRN128_PRIME        |            | 2016-128T09:34:00 |                                  | 000T00:40:00 | 2016-128T10:14:00 | XBAND TO EARTH (0.0,0.0,-9.5 DEG. OFFSET) | NEG_Y TO SATURN       |  |
| NEW WAYPOINT                   |            | 2016-128T10:14:00 |                                  | 000T09:40:00 | 2016-128T19:54:00 | XBAND TO EARTH (0.0,0.0,-9.5 DEG. OFFSET) | NEG_Y TO SATURN       |  |
| SP_235EA_C70METNON128_PRIME    | C          | 2016-128T10:14:00 |                                  | 000T07:20:00 | 2016-128T17:34:00 | XBAND TO EARTH (0.0,0.0,-9.5 DEG. OFFSET) | ROLLING/SRU           | MIMI.NEG_Y TO SATURN (0.0,-9.5).SRU.   |
| SP_235TI_WAYPTURN128_PRIME     |            | 2016-128T19:14:00 |                                  | 000T00:40:00 | 2016-128T19:54:00 | NEG_Y TO TITAN                            | NEG_X TO NTP          |  |
| NEW WAYPOINT                   |            | 2016-128T19:54:00 |                                  | 000T12:50:00 | 2016-129T08:44:00 | NEG_Y TO TITAN                            | NEG_X TO NTP          |  |
| ISS_235TI_CLOUD001_PRIME       | V          | 2016-128T19:54:00 |                                  | 000T04:00:00 | 2016-128T23:54:00 | ISS_NAC TO TITAN                          | NEG_X TO NTP          |  |
| ISS_235TI_CLOUD002_PRIME       | V          | 2016-128T23:54:00 |                                  | 000T04:10:00 | 2016-129T04:04:00 | ISS_NAC TO TITAN                          | NEG_X TO NTP          |  |
| ISS_235TI_CLOUD003_PRIME       | V          | 2016-129T04:04:00 |                                  | 000T01:00:00 | 2016-129T05:04:00 | ISS_NAC TO TITAN                          | NEG_X TO NTP          |  |
| RADAR_235TI_RADIOCAL134_PRIME  |            | 2016-129T05:04:00 |                                  | 000T02:00:00 | 2016-129T07:04:00 | NEG_Z TO TITAN                            | NEG_X TO NTP          |  |
| ISS_235TI_CLOUD004_PRIME       | V          | 2016-129T07:04:00 |                                  | 000T01:00:00 | 2016-129T08:04:00 | ISS_NAC TO TITAN                          | NEG_X TO NTP          |  |
| SP_235EA_DLTRN129_PRIME        |            | 2016-129T08:04:00 |                                  | 000T00:40:00 | 2016-129T08:44:00 | XBAND TO EARTH (0.0,0.0,-9.5 DEG. OFFSET) | NEG_Y TO SATURN       |  |
| NEW WAYPOINT                   |            | 2016-129T08:44:00 |                                  | 000T10:41:00 | 2016-129T19:25:00 | XBAND TO EARTH (0.0,0.0,-9.5 DEG. OFFSET) | NEG_Y TO SATURN       |  |
| SP_235EA_YGAP129_PRIME         |            | 2016-129T08:44:00 |                                  | 000T01:30:00 | 2016-129T10:14:00 | XBAND TO EARTH (0.0,0.0,-9.5 DEG. OFFSET) | NEG_Y TO SATURN       |  |
| SP_235EA_C34BWNON129_PRIME     | C          | 2016-129T10:14:00 |                                  | 000T09:00:00 | 2016-129T19:14:00 | XBAND TO EARTH (0.0,0.0,-9.5 DEG. OFFSET) | ROLLING/SRU           | MIMI.NEG_Y TO SATURN (0.0,-9.5).SRU.   |