Commissioning and Science Operations

OUTLINE

• Overview of first month
• Early orbit summary
• Looking ahead to upcoming science events
• Calibration rolls and off-points
• Status of operational requests
Early Operations – 1st week

Scheduled activities for Week 43:

M Oct 23
T Oct 24
W Oct 25
T Oct 26  Launch (00:38 UT; 8:38 EDT 25 Oct)
F Oct 27  Power on SECCHI, move doors from superclosed to closed
          Power on SWAVES, deploy antennas
S Oct 28  1st Engineering Burn
          Power on IMPACT IDPU, SWEA,
          Deploy SWEA cover
          Power on PLASTIC
S Oct 29  Power on IMPACT/SWEA HVPS
Early Operations – 2\textsuperscript{nd} week

Scheduled activities for Week 44:

M Oct 30  A1 Prime Delta V Maneuver
T Oct 31  A1 Apogee
          A1 Backup #1 Delta V Maneuver
W Nov 01  A1 Backup #2 Delta V Maneuver
          Deploy IMPACT boom
T Nov 02  2nd Engineering Burn
F Nov 03
S Nov 04
S Nov 05
Early Operations – 3rd week

Scheduled activities for Week 45:

M Nov 06  P1 Perigee & Delta V Maneuver
Ahead: EA mode test

T Nov 07
W Nov 08
T Nov 09
F Nov 10  Behind: A2 Prime Delta V Maneuver
S Nov 11  Ahead: A2 Prime Delta V Maneuver
Ahead: 1st enabling of GT use
Behind: A2 Apogee
S Nov 12  Ahead: A2 Apogee
Behind: A2 Backup Delta V Maneuver
Early Operations – 4th week

Scheduled activities for Week 46:

M Nov 13  Ahead:  A2 Backup Delta V Maneuver
           Behind:  1st enabling of GT use
           Power up IMPACT SEP and STE

T Nov 14
W Nov 15
T Nov 16
F Nov 17  P2 Perigee & Delta V Maneuver
S Nov 18
S Nov 19
Scheduled activities for Week 46:

M Nov 20
T Nov 21
W Nov 22  A3 Prime Delta V Maneuver
           IMPACT MAG rolls,
           HGA end-to-end slew
T Nov 23  A3 Apogee
F Nov 24  A3 Backup Delta V Maneuver
S Nov 25
S Nov 26
## Early Orbit Summary

<table>
<thead>
<tr>
<th>Event</th>
<th>STEREO A</th>
<th>STEREO B</th>
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<tbody>
<tr>
<td>P1 Perigee</td>
<td>6-Nov-2006 10:36</td>
<td>6-Nov-2006 08:33</td>
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<td>P2 Perigee</td>
<td>17-Nov-2006 16:34</td>
<td>17-Nov-2006 12:45</td>
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<td>A4 Apogee</td>
<td>5-Dec-2006 20:50</td>
<td>5-Dec-2006 21:19</td>
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<td>P4 Perigee</td>
<td>12-Dec-2006 00:20</td>
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<td>A5 Apogee</td>
<td>2-Jan-2007 03:09</td>
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<tr>
<td>S2 Swingby</td>
<td>21-Jan-2007 15:52</td>
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Looking Ahead

• IMPACT/MAG roll in magnetosphere
  – Possibly post-P3, November 29
• S1 Lunar swingby, December 15
  – May pass through Moon’s wake
• Ulysses quadrature, Dec 2006–May 2007
• SUMER/Hinode (Solar-B) campaign
  – March 13 to April 30
• SECCHI campaign, May 1-15, 2007
• Messenger flyby of Venus, June 5
• Ulysses ecliptic plane passage, August 19
Calibration Activities

• Rolls:
  – IMPACT calibration roll
  – COR1/COR2 stepped calibration roll
  – SWAVES calibration roll
  – HI cross-calibration roll maneuver
  – HI flat-field roll maneuver

• Off-points:
  – SECCHI/G&C calibration
  – COR1/COR2 pointing calibration off-point
  – EUVI calibration off-point
  – HI stray-light off-point
Status of Operational Requests

- SECCHI EUVI off-point: Tests in progress
- SECCHI HI cross calibration roll maneuver: Submitted
- SECCHI HI stray-light off-point: Submitted
- SECCHI HI flat-field roll maneuver: Submitted
- SECCHI GT/G&C commissioning: Implemented
- SECCHI Survival Power Usage: Implemented
- SECCHI SSR2 playback problem: Patch going up day 4
- SECCHI campaign DSN pass duration: Implemented
- IMPACT/MAG calibration roll changes: Tested
- Beacon convolutional 1/6 encoding: Implemented
- SWAVES calibration roll: Tested
- SECCHI COR calibration roll: Tested
- SECCHI campaign dates: Implemented
- IMPACT 45 degrees off-point: REJECTED
- Mercury transit: No longer feasible