#### 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 – 1<sup>st</sup> 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<sup>nd</sup> week

```
Scheduled activities for Week 44:
M Oct 30 Al Prime Delta V Maneuver
T Oct 31 Al Apogee
          Al Backup #1 Delta V Maneuver
          Al Backup #2 Delta V Maneuver
W Nov 01
          Deploy IMPACT boom
          2nd Engineering Burn
T Nov 02
F Nov 03
S Nov 04
S Nov 05
```

### Early Operations – 3<sup>rd</sup> 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 – 4<sup>th</sup> 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
```

### Early Operations – 5<sup>th</sup> week

Scheduled activities for Week 46:

# **Early Orbit Summary**

STEREO B

STEREO A

	SIEREO A		STEREOD	
Launch	26-Oct-2006		26-Oct-2006	
A1 Apogee	31-Oct-2006	17:17	31-Oct-2006	16:16
P1 Perigee	6-Nov-2006	10:36	6-Nov-2006	08:33
A2 Apogee	12-Nov-2006	01:38	11-Nov-2006	22:43
P2 Perigee	17-Nov-2006	16:34	17-Nov-2006	12:45
A3 Apogee	23-Nov-2006	16:39	23-Nov-2006	14:13
P3 Perigee	29-Nov-2006	17:38	29-Nov-2006	16:37
A4 Apogee	5-Dec-2006	20:50	5-Dec-2006	21:19
P4 Perigee	12-Dec-2006	00:20	12-Dec-2006	02:21
S1 Swingby	15-Dec-2006	13:53	15-Dec-2006	13:47
A5 Apogee			2-Jan-2007	03:09
S2 Swingby			21-Jan-2007	15:52

## **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
- SECCHI HI cross calibration roll maneuver
- SECCHI HI stray-light off-point
- SECCHI HI flat-field roll maneuver
- SECCHI GT/G&C commissioning
- SECCHI Survival Power Usage
- SECCHI SSR2 playback problem
- SECCHI campaign DSN pass duration
- IMPACT/MAG calibration roll changes
- Beacon convolutional 1/6 encoding
- SWAVES calibration roll
- SECCHI COR calibration roll
- SECCHI campaign dates
- IMPACT 45 degrees off-point
- Mercury transit

Tests in progress

Submitted

**Submitted** 

Submitted

Implemented

Implemented

Patch going up day 4

Implemented

**Tested** 

Implemented

**Tested** 

**Tested** 

Implemented

**REJECTED** 

No longer feasible