

SDO HMI Internal Weekly On-Orbit Report

Week of Monday, April 18, 2011 through Sunday, April 24, 2011

Summary

HMI successfully performed its weekly calibrations on Monday, April 18th (leg adjust, flatfield observation mode-1) and on Tuesday, April 19th (flatfield calibration/observation mode-2, full focus sweep) using timed scripts. On April 19th, some preparations were made for the upcoming lunar transit on May 3rd. On April 20th the spacecraft performed an EVE Field Of View maneuver between 13:15 UT and 15:57 UT, and an AIA/HMI Off-point maneuver between 16:30 UT and 19:15 UT. HMI did not perform any special operations during these maneuvers. Weekly calibrations were performed one day earlier than usual in order to avoid interfering with the AIA/HMI Off-point maneuver. HMI is performing nominally.

Weekly Calibrations

Calibration	Date/Time	Script	Ran by	Notes
Leg adjustment	18-Apr-11 18:00 UT	N/A	STOL	
Flat field (observation mode-1)	18-Apr-11 19:00 UT	2701	Timed Script	Calibrations were run one day earlier than usual in order to avoid interfering with the AIA/HMI Offpoint maneuver.
Flat field (observation mode-1)	19-Apr-11 19:00 UT	2701	Timed Script	
Flat field (calibration mode)	19-Apr-11 19:08 UT	2702	Timed Script	
Full focus sweep	19-Apr-11 19:16 UT	2705	Timed Script	

Loads

None

Thermal Adjustments

None

S/C Calibrations/Maneuvers

1. EVE Field Of View Maneuver

20-Apr-2011

13:15 UT

The spacecraft performed an EVE Field Of View maneuver between 13:15 UT and 15:57 UT. HMI did not perform any special operations.

2. AIA/HMI Off-point Maneuver

20-Apr-2011

16:30 UT

The spacecraft performed an AIA/HMI Off-point maneuver between 16:30 UT and 19:15 UT. HMI performed nominally.

Additional Operations**1. Lunar Transit Preparation**

19-Apr-2011 at 18:27:40 UTC

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Hooked up eclipse entry and exit INCs (HCM064 and HCM065) to Scripts 2064 and 2065 for the upcoming lunar transit on May 3rd. These scripts raise the zones 1, 2, and 3 cold duty cycles to 100 for the duration of the transit.

Instrument Anomalies

None

Limit violations

None

Clock Adjustments

Date/Time (UT)	HMI WRT ground (ms)	Adjustment
04/20/11 @ 18:56	+13	HMI from 0x800272 to 0x800271

Long term Trends**1. Corrupt Image FSN 469769216 (0x1C001C000)**

Occurrences this week: None

Occurrences to date: 31

2. Corrupt Image FSN 9175180 (0x008C008C)

Occurrences this week: None

Occurrences to date: 2

Other

None