

## SDO HMI Internal Weekly On-Orbit Report

### Week of Monday, May 16, 2011 through Sunday, May 22, 2011

#### Summary

HMI successfully performed its weekly calibrations on Tuesday, May 17<sup>th</sup> (obs-mode flatfield) and on Wednesday, May 18<sup>th</sup> (obs-mode flatfield, cal-mode flatfield, full focus sweep). HMI had one corrupt image this week (type: FSN= 469769216), for an on-orbit total of 35. There continued to be extra noise in the PZT voltage signals this week, indicating jitter in the ISS. The noise is still very low and not a cause for concern, but the operations team will continue to monitor it closely and investigate possible causes. HMI is performing nominally.

#### Weekly Calibrations

Calibration	Date/Time	Script	Ran by	Notes
Flat field (observation mode-1)	17-May-11 19:00 UT	2701	Timed Script	
Flat field (observation mode-1)	18-May-11 19:00 UT	2701	Timed Script	
Flat field (calibration mode)	18-May-11 19:08 UT	2702	Timed Script	
Full focus sweep	18-May-11 19:16 UT	2705	Timed Script	

#### Loads

None

#### Thermal Adjustments

None

#### S/C Calibrations/Maneuvers

None

#### Additional Operations

None

#### Instrument Anomalies

None

#### Limit violations

None

## Clock Adjustments

Date/Time (UT)	HMI WRT ground (ms)	Adjustment
05/16/11 @ 17:54	-8.5	HMI from 0x800270 to 0x800261
05/18/11 @ 17:54	+10	HMI from 0x800271 to 0x800270
05/20/11 @ 17:54	+14.5	HMI from 0x800270 to 0x80026f

## Long term Trends

### 1. Corrupt Image FSN 469769216 (0x1C001C000)

Occurrences this week:

1. 2011-05-20 @ 07:35:00

Occurrences to date: 33

### 2. Corrupt Image FSN 9175180 (0x008C008C)

Occurrences this week: None

Occurrences to date: 2

## Other

### 1. Workstation Reboots

The JSOC workstations were rebooted this week. The next reboot will be in about 90 days.

- The JSOC-IOC MON and CMD workstations for AIA and HMI were rebooted on 17-May-2011.
- The MOC workstations were rebooted on 18-May-2011
- The SDOIOC-SPR workstation was rebooted on 20-May-2011.
- The SDP workstations will be rebooted shortly.
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### 2. ISS Jitter

There continued to be extra noise in the PZT voltage signals this week, indicating jitter in the ISS. The noise still very low and not a cause for concern, but the operations team will continue to monitor it closely and investigate possible causes.