

## SDO HMI Internal Weekly On-Orbit Report

**Week of Monday, January 3, 2011 through Sunday, January 9, 2011**

### Summary

HMI successfully performed their weekly calibrations on Tuesday, January 4<sup>th</sup> (observation mode-1) and on Wednesday, January 5<sup>th</sup> (flatfield calibration/observation mode-2, full focus sweep, detune) using timed scripts. There were three nominal clock adjustments made this week. There were two occurrences of the FSN 469769216 type corrupt images (on-orbit total of 21). HMI continues to perform nominally.

On Thursday, routine commanding was successfully conducted from the MOC workstations.

### Calibrations

Calibration	Date/Time	Ran by	FSN	Notes
Flat field (observation mode-1)	4-Jan-11 19:04:38	Timed Script	16062345	
Detune	5-Jan-11 19:06:55	Timed Script	16108498	
Flat field (observation mode - 2)	5-Jan-11 19:15:55	Timed Script	16108786	
Flat field (calibration mode)	5-Jan-11 19:24:55	Timed Script	16109074	
Focus Sweep (full)	5-Jan-11 19:29:23	Timed Script	16109217	

### Additional Operations

None

### Instrument Anomalies

None

### Limit violations

None

### Clock Information

Date/Time (UT)	HMI WRT ground (ms)	Adjustment
1/6/11 @ 21:04	+8.2	HMI from 0x800274 to 0x800275

<b>Date/Time (UT)</b>	<b>HMI WRT ground (ms)</b>	<b>Adjustment</b>
1/7/11 @ 21:27	+3.4	HMI from 0x800274 to 0x800275

**Thermal Adjustments**

None

**Sequencer Changes**

None

<b>Date/Time of Change</b>	<b>New Sequence</b>	<b>Notes</b>

**S/C Calibrations/Maneuvers**

None

**Pointing Adjustments**

None

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

Occurrences this week:

1. 2011-01-07 13:58:46
2. 2011-01-08 05:30:24

Occurrences to date: 21

**1. Corrupt Image FSN 9175180 (0x008C008C)**

Occurrences this week:

1. No new occurrences

Occurrences to date: 2

**Loads**

None

**Other****1. HMI Science Data Offline**

05-Jan-2011 20:50 UT

On Wednesday, January 5, the delivery of HMI science data was briefly stopped due to a problem between the QCP and the FOP. The problem was fixed at the MOC; data delivery resumed within 15 minutes, and the data gap was filled in.

**2. MOC Command Station Testing**

06-Jan-2011 20:00:00 UT

On Thursday, January 6, Sarah G. and Dawn M. tested the following MOC command stations: AIAMOC-CM; AIAMOC-MON; and HMIMOC-CMD. They updated the EGSE database, performed clock adjustments, and set up the weekly calibrations for both instruments to run on 1/11/11 and 1/12/11 by timed script. The procedure that was followed is located at [https://aia.lmsal.com/doc?cmd=vcur&proj\\_num=AIA03790](https://aia.lmsal.com/doc?cmd=vcur&proj_num=AIA03790). Testing was successful, and will be repeated in 6 months.

**3. SUM\_SVC Error**

06-Jan- 2011 21:30:00 UT

On Thursday, January 6, the SUM\_SVC on j1 “fell asleep”, preventing watch\_lev0 from displaying any images. Keh-Cheng fixed the problem on 07-jan-2011 at 06:00UT by killing the old process, which allowed a new one to start and images on watch\_lev0 to resume updating.