

## SDO HMI Internal Weekly On-Orbit Report

### Week of Monday, January 17, 2011 through Sunday, January 23, 2011

#### Summary

HMI successfully performed their weekly calibrations on Tuesday, January 18<sup>th</sup> (observation mode-1) and on Wednesday, January 19<sup>th</sup> (flatfield calibration/observation mode-2, full focus sweep, detune) using timed scripts. There were 3 corrupt images this week of FSN 469769216 (mission total of 24). HMI continues to perform nominally.

On Thursday, the GT PZT Monthly Calibration Maneuver took place with no issues for AIA or HMI. Results will be analyzed in the near future.

#### Calibrations

Calibration	Date/Time	Ran by	FSN	Notes
Flat field (observation mode-1)	18-Jan-11 19:04:39	Timed Script	16705613	
Flat field (observation mode - 2)	19-Jan-11 19:04:40	Timed Script	16751694	
Flat field (calibration mode)	19-Jan-11 19:13:40	Timed Script	16751982	
Detune	19-Jan-11 19:22:40	Timed Script	16752270	
Focus Sweep (full)	19-Jan-11 19:31:40	Timed Script	16752558	

#### Loads

None

#### Thermal Adjustments

None

#### Additional Operations

##### 1. SDOIOC-SPR Command Testing

We tested commanding on the SDOIOC-SPR machine, and configured it to be enabled for both instruments. We were connected to Viper, the secondary machine, so no-ops were sent through to the MOC only.

18-Jan-2011 at 20:55:06 UTC  
 Author: Emma, Zoe, & Sarah

We successfully sent no-ops (through to the MOC only) for both HMI and AIA today from the SDOIOC-SPR machine. Commands were sent using SFID H3 and A3.

### **Instrument Anomalies**

None

### **Limit violations**

None

### **Clock Information**

No clock adjustments this week.

<b>Date/Time (UT)</b>	<b>HMI WRT ground (ms)</b>	<b>Adjustment</b>

### **Sequencer Changes**

None

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

### **S/C Calibrations/Maneuvers**

#### **2. GT PZT Calibration**

HMI performed nominally during an AIA Guide Telescope PZT calibration on January 20, 2011 from 15:00 UT to 17:00 UT.

20-Jan-2011 at 15:04:32 UTC  
 Author: jake wolfson

PZT Cal started on time and reasonable looking INCs were received. There was an error message "EIP: ssim\_tm: HSS101 SS unable to find wildcard filename

match for \*7004.\*.SCR" however, I imagine that isn't a problem? Will look at some plots and screens when they get updated.

### **Pointing Adjustments**

None

### **Long term Trends**

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

Occurrences this week:

1. 2011-01-17 @ 06:23:17
2. 2011-01-22 @ 09:14:28
3. 2011-01-23 @ 19:21:00

Occurrences to date: 24

#### **3. Corrupt Image FSN 9175180 (0x008C008C)**

Occurrences this week:

No new occurrences

Occurrences to date: 2

### **Other**

#### **1. Audi Reboot**

19-Jan-2011

Audi was rebooted at 17:28 UT. It was back up and running at 17:35 UT with no problems.