

SDO HMI Internal Weekly On-Orbit Report
Week of Monday, May 9, 2011 through Sunday, May 15, 2011

Summary

HMI successfully performed its weekly calibrations on Tuesday, May 10th (obs-mode flatfield) and on Wednesday, May 11th (obs-mode flatfield, cal-mode flatfield, reduced focus sweep, detune). HMI had one corrupt image this week (type: FSN= 469769216), for an on-orbit total of 34. There was a bit more noise than usual in the PZT voltage signals this week. The noise is still very small and not a cause for concern, but the operations team will continue to monitor it closely. HMI is performing nominally.

Weekly Calibrations

Calibration	Date/Time	Script	Ran by	Notes
Flat field (observation mode-1)	10-May-11 17:00 UT	2701	Timed Script	
Flat field (observation mode-1)	11-May-11 17:00 UT	2701	Timed Script	
Flat field (calibration mode)	11-May-11 17:08 UT	2702	Timed Script	
Reduced focus sweep	11-May-11 17:16 UT	2704	Timed Script	
Detune	11-May-11 17:24 UT	2703	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
05/09/11 @ 17:54	+28	HMI from 0x800271 to 0x80026f
05/11/11 @ 17:54	+4.8	HMI from 0x80026f to 0x800270

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

Occurrences this week:

1. 2011-05-10 @ 09:22:47

Occurrences to date: 32

2. Corrupt Image FSN 9175180 (0x008C008C)

Occurrences this week: None

Occurrences to date: 2

Other**1. Increased Jitter**

There was a bit more noise than usual in the PZT voltage signals this week. The noise is still very small and not a cause for concern, but the operations team will continue to monitor it closely.