SDO HMI Internal Weekly On-Orbit Report

Week of Monday, February 14, 2011 through Sunday, February 20, 2011

Summary

HMI successfully performed their weekly calibrations on Wednesday, February 15th (observation mode-1) and on Thursday, February 16th (detune, flatfield calibration/observation mode-2, reduced focus sweep) using timed scripts. There was one occurrence of the FSN 469769216 type corrupt images (on-orbit total of 25). HMI continues to perform nominally.

Calibrations

Calibration	Date/Time	Ran by	FSN	Notes
Flat field (observation mode-1)	15-Feb-11 20:03:14	Timed Script	17997680	
Detune	16-Feb-11 19:09:11	Timed Script	18042030	
Flat field (observation mode - 2)	16-Feb-11 19:20:27	Timed Script	18042391	
Flat field (calibration mode)	16-Feb-11 19:27:11	Timed Script	18042606	
Reduced Focus Sweep	16-Feb-11 19:33:59	Timed Script	18042824	

Loads

None

Thermal Adjustments

None

S/C Calibrations/Maneuvers

None

Additional Operations

None

Instrument Anomalies

None

Limit violations

None

Clock Adjustments

None

Date/Time (UT)	HMI WRT ground (ms)	Adjustment

Sequencer Changes

None

Date/Time of Change	New Sequence	Notes

Long term Trends

1. **Corrupt Image FSN 469769216 (0x1C001C000)**
   Occurrences this week:
   1. 2011-02-17 @ 15:09:19

   Occurrences to date: 25

2. **Corrupt Image FSN 9175180 (0x008C008C)**
   Occurrences this week: None
   Occurrences to date: 2

Other

1. **EGSE Limit Updates**
   Last week, the yellow limits for the HMI camera offsets and CIF SDRAM errors were updated to have a tolerance of 0, so if the values changes from the current value a yellow limit will go off. These values were updated locally, but (purposefully) not in the RDL files.

2. **EGSE Database Updates**
   16 Feb 2011 18:40 GMT
   The EGSE database was updated to remove the stale telemetry warnings for packet 133. Version 208 is now installed and running on all JSOC workstations. The EGSE was restarted on all IOC, SDP, and MOC workstations to read in the new database version.

3. **DDS Core Cleaning and Complications**
   16 Feb 2011

Side effects of a nominal DDS Core Cleaning performed on 2/16/11 caused complications with the Stanford level 0 processing system that has taken about 6 days to clear up. The anomaly is being investigated by the FOT.