

SDO HMI Weekly Report

Week of Monday, August 23, 2010 through Sunday, August 29, 2010

Z. Frank

Weekly Calibration Results

Wednesday August 25, 2010 @ 10:20 am PST

- 1) Obs mode flat field, FTS 3001, 17:21:16 UT, FSN 9987161
- 2) Cal mode flat field, FTS 3002, 17:25:47 UT, FSN 9987303
- 3) Focus sweep (reduced), FTS 3000, 17:30:20 UT, FSN 9987447
- 4) Clock adjustment, 17:33:50 UT, 0x800271 -> 0x800274
- 5) Leg Alignment, 17:35:50 UT, AL1=1, AL2=2, FSN 9987630
- 6) Obs mode flat field (2), 17:39:16 UT, FSN 9987737

Additional Operations

Script 7003 run during Regulus offpoint. Report from Rock Bush:
"The HMI observing sequence for the Regulus observation executed as expected and the spacecraft slewed to the designated position. The observations, however, will not likely be useable to determine the roll orientation. The long exposure (3.2 seconds) saturated the entire CCD detector; my guess is that so much charge accumulated on the "sun" side of the CCD that it bled into the other half of the CCD. The normal length exposure looked ok and adding together the series of short exposures may provide a detectable signal."

Anomalies?

None

Limit violations?

None

Clock Information

Date/Time	S/C Time Offset +slow	HMI wrt S/C +fast	HMI wrt GND	S/C or Inst. Adustment?
8/23/10 @00:00 UT	+8.0 ms slow	-21.5 ms slow	29.5 ms slow	No change
8/24/10 @13:25 UT	0.0 ms	-38.0 ms slow	38.0 ms slow	SC reset to 0
8/25/10 @17:33 UT	+1.1 ms slow	-46.6 ms slow	47.7 ms slow	HMI from 0x800271 to 0x800274
8/26/10 @19:25 UT	-3.0 ms fast	-25.5 ms slow	19.5 ms slow	HMI from 0x800274 to 0x800273
8/27/10 @18:00 UT	0.0 ms	+1.0 ms fast	1.0 ms fast	SC reset to 0 HMI from 0x800273 to 0x800272

8/28/10 @00:00 UT	-1.0 ms fast	+2.0 ms fast	3.5 ms fast	No change
8/29/10 @00:00 UT	-6.0 ms fast	+8.5 ms fast	14.5 ms fast	No change

Thermal Adjustments

23 Aug 2010 @ 20:38 UT

Changed operational heater limits

Zone 1: high=29.5, target=28, low=27

Zone 2: high=29.5, target=28.5, low=27.5

Zone 3: high=29.5, target=28, low=27

Sequencer Changes

None

Date/Time of Change	New Sequence	Notes
8/23 @ 05:02 UT – 05:38 UT	7003	Longer exposures, additional dark currents, for Regulus offpoint

S/C Calibrations/Maneuvers

Regulus Offpoint – 8/23 @ 05:02 UT – 05:38 UT

Pointing Adjustments

Leg Alignment, 8/25 @ 17:35:50 UT

Long term Trends

Corrupt Image FSN 469769216 (**0x1C001C000**) occurrences (this week / mission to date):

- 1) 0/9 (no corrupt images this week)

Loads

None

Note: