

-----  
Mauna Loa Solar Observatory Observer's Log  
-----

Tue May 1 16:25:45 GMT 2001

Year: 01 Doy: 121

Observer: yasukawa

WEATHER COMMENT: Tue May 1 16:26:19 GMT 2001

Cool, in broken altocumulus, light southbreeze.

WEATHER COMMENT: Tue May 1 16:31:00 GMT 2001

Too cloudy to guide properly at this time. Spar pointed and standing by.

Tue May 1 16:50:38 GMT 2001 CHIP Start Patrol

Tue May 1 16:55:13 GMT 2001 PICS Start Patrol

Tue May 1 17:02:30 GMT 2001 CHIP LSD

Tue May 1 17:06:14 GMT 2001 CHIP End LSD

Tue May 1 17:06:21 GMT 2001 CHIP BiasLSD

Tue May 1 17:07:04 GMT 2001 CHIP End BiasLSD

Tue May 1 17:07:13 GMT 2001 CHIP Bias

Tue May 1 17:07:58 GMT 2001 CHIP End Bias

Tue May 1 17:21:53 GMT 2001 MKIV Start Correct

MKIV COMMENT: Tue May 1 17:22:16 GMT 2001

Correct since transformation board had strapping changed since last one.

Tue May 1 17:23:26 GMT 2001 MKIV End Correct

Tue May 1 17:24:13 GMT 2001 MKIV Start Patrol

ECHO COMMENT: Tue May 1 17:27:54 GMT 2001

Code change installed and compiled.

Tue May 1 17:29:33 GMT 2001 MKIV Start Patrol

WEATHER COMMENT: Tue May 1 17:30:50 GMT 2001

Broken clouds have cleared away.

\*\*\*\* EVENT COMMENT \*\*\*\*: Tue May 1 17:32:49 GMT 2001

Nice arching EPL at PA 290-310.

Tue May 1 17:41:38 GMT 2001 MKIV End Patrol

Tue May 1 17:42:06 GMT 2001 MKIV Start Cal

MKIV COMMENT: Tue May 1 17:48:47 GMT 2001

Some remnants of cirrus around but doing a calibrate anyway. Cirrus is so thin, intensity should not be affected. The coronal scan two before the cal looked OK. The one just before the cal was bad. The one between cal0 and cal15 was bad. Coronal scan between cal15 and dark is good. This is the one to use in getcal.

Tue May 1 18:00:51 GMT 2001 MKIV End Cal

Tue May 1 18:01:03 GMT 2001 MKIV Start Cal

Tue May 1 18:02:33 GMT 2001 CHIP LSD

Tue May 1 18:04:02 GMT 2001 PICS Flat

Tue May 1 18:06:26 GMT 2001 CHIP End LSD

Tue May 1 18:06:38 GMT 2001 CHIP BiasLSD

Tue May 1 18:07:13 GMT 2001 PICS End Flat

Tue May 1 18:07:30 GMT 2001 CHIP End BiasLSD

Tue May 1 18:07:43 GMT 2001 CHIP Bias  
Tue May 1 18:08:37 GMT 2001 CHIP End Bias  
Tue May 1 18:19:49 GMT 2001 MKIV End Cal  
Tue May 1 18:20:01 GMT 2001 MKIV Start Patrol  
MKIV COMMENT: Tue May 1 18:23:24 GMT 2001  
The 1800 sequence of calibration scans look good, even  
the corona.  
Tue May 1 18:26:12 GMT 2001 MKIV End Patrol  
Tue May 1 18:27:51 GMT 2001 MKIV Start Patrol  
MKIV COMMENT: Tue May 1 18:28:08 GMT 2001  
Objective lens rotated to see if streaky features in  
intensity rotate with it. Rotation amount was 45 degrees CCW  
45 degrees CCW looking at the Sun.  
45 Degrees CCW looking at the Sun.  
Tue May 1 18:34:33 GMT 2001 MKIV End Patrol  
Tue May 1 18:34:42 GMT 2001 MKIV Start Patrol  
ECHO COMMENT: Tue May 1 18:35:44 GMT 2001  
Got Echo to point properly by either or both rebooting the PC and  
minimizing the Garmin32 rather than exiting it.  
MKIV COMMENT: Tue May 1 18:39:48 GMT 2001  
Two scans with lens rotated back CCW 45 degrees. No  
streaks seen in Q real time display, but quadrant  
signal is seen to rotate as seen previously.  
MKIV COMMENT: Tue May 1 18:41:23 GMT 2001  
Depol takes out the quadrant signature.  
ECHO COMMENT: Tue May 1 18:52:18 GMT 2001  
Testing by placing a "cloud" in front of aperture (at 1851) and leaving it there for 15 minutes or so to see where the eph  
emeris and the quad cells  
end up.  
\*\*MKIV PROBLEM\*\*: Tue May 1 18:56:32 GMT 2001  
O1 guider started the day 880% of the way to CW limit. It is  
now bouncing on CW limit. This may explain why corona  
seems to have moved in RA. NS was mid range at start of day.  
Tue May 1 18:58:32 GMT 2001 MKIV End Patrol  
Tue May 1 18:58:44 GMT 2001 MKIV Start Cal  
Tue May 1 19:02:20 GMT 2001 CHIP LSD  
Tue May 1 19:05:56 GMT 2001 CHIP End LSD  
Tue May 1 19:06:12 GMT 2001 CHIP BiasLSD  
Tue May 1 19:07:10 GMT 2001 CHIP End BiasLSD  
Tue May 1 19:07:20 GMT 2001 CHIP Bias  
Tue May 1 19:08:05 GMT 2001 CHIP End Bias  
ECHO COMMENT: Tue May 1 19:09:30 GMT 2001  
Image did not move all that much when cloud removed after 15 minutes.  
  
Pausint data taking to work on MOF cell replacement.  
Tue May 1 19:17:29 GMT 2001 MKIV End Cal  
Tue May 1 19:17:40 GMT 2001 MKIV Start Patrol  
\*\*MKIV PROBLEM\*\*: Tue May 1 19:30:09 GMT 2001

Ra and Dec for guide telescope were adjusted to center  
O1 guider stepper motor during last scan.

Tue May 1 20:02:22 GMT 2001 CHIP LSD  
Tue May 1 20:05:14 GMT 2001 MKIV End Patrol  
Tue May 1 20:05:42 GMT 2001 CHIP End LSD  
Tue May 1 20:05:59 GMT 2001 CHIP BiasLSD  
Tue May 1 20:06:17 GMT 2001 MKIV Start Cal  
Tue May 1 20:06:55 GMT 2001 CHIP End BiasLSD  
Tue May 1 20:07:08 GMT 2001 CHIP Bias  
Tue May 1 20:07:59 GMT 2001 CHIP End Bias  
Tue May 1 20:15:45 GMT 2001 PICS End Patrol  
Tue May 1 20:16:04 GMT 2001 CHIP End Patrol

\*\*MLSO PROBLEM\*\*  
Tue May 1 20:16:45 GMT 2001  
ADR sensor saw the top of the dome and rotated the dome  
into Mk4 during coronal scan between tilt15 and dark.  
Tue May 1 20:23:00 GMT 2001 CHIP Start Patrol  
COMMENT: Tue May 1 20:23:05 GMT 2001

reconfigured dome shutter.

Tue May 1 20:23:14 GMT 2001 PICS Start Patrol

\*\*MLSO PROBLEM\*\*  
Tue May 1 20:23:23 GMT 2001

Beginning of coronal scan after dark has a sliver  
of dome slot as reconfiguration was not yet complete

Tue May 1 20:25:05 GMT 2001 MKIV End Cal  
Tue May 1 20:27:22 GMT 2001 MKIV Start Patrol

MKIV COMMENT: Tue May 1 20:27:27 GMT 2001

CalMkIV modified on nahenahe so that after transferring  
files to /data/mk4, creation of a gif file is skipped  
if the last scan was a calibration.

-- david

Tue May 1 21:02:09 GMT 2001 CHIP LSD  
Tue May 1 21:04:37 GMT 2001 MKIV Start Cal  
Tue May 1 21:05:40 GMT 2001 CHIP End LSD  
Tue May 1 21:05:51 GMT 2001 CHIP BiasLSD  
Tue May 1 21:06:37 GMT 2001 CHIP End BiasLSD  
Tue May 1 21:06:46 GMT 2001 CHIP Bias  
Tue May 1 21:07:31 GMT 2001 CHIP End Bias

ECHO COMMENT: Tue May 1 20:58:09 GMT 2001

Both MOF cells have been replaced. Covers on temporarily secured for testing.  
Turned instrument power back on and restarted ECHO.

Tue May 1 21:24:19 GMT 2001 MKIV End Cal  
Tue May 1 21:24:30 GMT 2001 MKIV Start Patrol

\*\*\*\* EVENT COMMENT \*\*\*\*  
Tue May 1 21:26:55 GMT 2001

There is ongoing "coronal nervousness", as David is calling it, at PA  
260-300.

Tue May 1 22:01:18 GMT 2001 CHIP LSD  
Tue May 1 22:01:45 GMT 2001 MKIV End Patrol  
Tue May 1 22:01:54 GMT 2001 MKIV Start Cal

Tue May 1 22:04:46 GMT 2001 CHIP End LSD  
 Tue May 1 22:05:04 GMT 2001 CHIP BiasLSD  
 MKIV COMMENT: Tue May 1 22:05:32 GMT 2001  
 Cumulus have rolled in.  
 Tue May 1 22:06:00 GMT 2001 CHIP End BiasLSD  
 Tue May 1 22:06:16 GMT 2001 CHIP Bias  
 Tue May 1 22:07:08 GMT 2001 CHIP End Bias  
 MKIV COMMENT: Tue May 1 22:14:28 GMT 2001  
 Coronal scan between call5 and dark is OK.  
 Tue May 1 22:21:21 GMT 2001 MKIV End Cal  
 Tue May 1 22:21:36 GMT 2001 MKIV Start Patrol  
 Tue May 1 22:33:41 GMT 2001 MKIV End Patrol  
 Tue May 1 22:33:53 GMT 2001 MKIV Start Patrol  
 Tue May 1 22:40:37 GMT 2001 MKIV End Patrol  
 Tue May 1 22:47:54 GMT 2001 MKIV Start Patrol  
 WEATHER COMMENT: Tue May 1 22:54:38 GMT 2001  
 In orographic clouds.  
 Tue May 1 22:59:55 GMT 2001 MKIV End Patrol  
 Tue May 1 23:01:23 GMT 2001 CHIP LSD  
 Tue May 1 23:03:46 GMT 2001 MKIV Start Patrol  
 Tue May 1 23:04:58 GMT 2001 CHIP End LSD  
 Tue May 1 23:05:10 GMT 2001 CHIP BiasLSD  
 Tue May 1 23:05:59 GMT 2001 CHIP End BiasLSD  
 Tue May 1 23:06:08 GMT 2001 CHIP Bias  
 Tue May 1 23:06:54 GMT 2001 CHIP End Bias  
 Tue May 1 23:09:15 GMT 2001 MKIV Start Patrol  
 Tue May 1 23:16:24 GMT 2001 MKIV End Patrol  
 ECHO COMMENT: Tue May 1 23:15:56 GMT 2001  
 We ended up with the MOF1 temperature setpoint at 143. Looks like gui  
 won't go there so the button is red but current temperature indicates  
 we are at 143. Display is set at max 2500 and images look good.  
 Buttoned up optics bay on echo.  
 \*\*PICS PROBLEM\*\*: Tue May 1 23:20:35 GMT 2001  
 PICS was dark--looking at the dome. ADR was off, rotated dome to west  
 and turned ADR back on.  
 Tue May 1 23:21:18 GMT 2001 MKIV Start Patrol  
 Tue May 1 23:25:53 GMT 2001 MKIV End Patrol  
 Tue May 1 23:26:03 GMT 2001 MKIV End Patrol  
 Tue May 1 23:29:59 GMT 2001 MKIV Start Patrol  
 Tue May 1 23:36:17 GMT 2001 MKIV End Patrol  
 Tue May 1 23:37:18 GMT 2001 MKIV Start Patrol  
 Wed May 2 00:01:28 GMT 2001 CHIP LSD  
 Wed May 2 00:01:58 GMT 2001 PICS polarization\_calibration  
 \*\*\*\* EVENT COMMENT \*\*\*\*: Wed May 2 00:03:34 GMT 2001  
 EPL in progress at PA 286-290.  
 Wed May 2 00:05:05 GMT 2001 CHIP End LSD  
 Wed May 2 00:05:16 GMT 2001 CHIP BiasLSD  
 Wed May 2 00:06:06 GMT 2001 CHIP End BiasLSD

Wed May 2 00:06:19 GMT 2001 CHIP Bias  
 Wed May 2 00:07:06 GMT 2001 CHIP End Bias  
 Wed May 2 00:09:00 GMT 2001 MKIV Start Cal  
 Wed May 2 00:15:25 GMT 2001 PICS Start Patrol  
 \*\*PICS PROBLEM\*\*: Wed May 2 00:16:10 GMT 2001  
 PICS crashed a while ago. Killed processes and restarted Patrol.  
 Wed May 2 00:27:55 GMT 2001 MKIV End Cal  
 Wed May 2 00:28:04 GMT 2001 MKIV Start Patrol  
 \*\*MKIV PROBLEM\*\*: Wed May 2 00:47:14 GMT 2001  
 Guider was at CW limit and we have been seeing spill in the North geocentric. Brought it off the limit and tweaked RA as well as it was driven to a limit in the adjustment.  
 Wed May 2 01:01:19 GMT 2001 CHIP LSD  
 Wed May 2 01:04:51 GMT 2001 MKIV Start Cal  
 Wed May 2 01:05:00 GMT 2001 CHIP End LSD  
 Wed May 2 01:05:17 GMT 2001 CHIP BiasLSD  
 Wed May 2 01:06:08 GMT 2001 CHIP End BiasLSD  
 Wed May 2 01:06:17 GMT 2001 CHIP Bias  
 Wed May 2 01:07:03 GMT 2001 CHIP End Bias  
 Wed May 2 01:23:25 GMT 2001 MKIV End Cal  
 Wed May 2 01:23:34 GMT 2001 MKIV Start Patrol  
 \*\*MKIV PROBLEM\*\*: Wed May 2 01:38:59 GMT 2001  
 This time RA guider was pegged and again it took adjusting both RA and Dec to correct the problem.  
 Alos Gif display shows bad rays geocentric north at a location where the corona is faint. The raw data show no such bad rays at that location! I think the calibration sees small or slightly negative Q and reverses the sign thereby causing the bad rays.  
 Wed May 2 02:01:23 GMT 2001 CHIP LSD  
 Wed May 2 02:04:54 GMT 2001 CHIP End LSD  
 Wed May 2 02:05:03 GMT 2001 CHIP BiasLSD  
 Wed May 2 02:06:02 GMT 2001 MKIV End Patrol  
 Wed May 2 02:05:50 GMT 2001 CHIP End BiasLSD  
 Wed May 2 02:06:20 GMT 2001 MKIV Start Cal  
 Wed May 2 02:06:09 GMT 2001 CHIP Bias  
 Wed May 2 02:07:05 GMT 2001 CHIP End Bias  
 PICS COMMENT: Wed May 2 02:21:47 GMT 2001  
 PICS blocked by dome shutter. We plan not to reconfigure...pics pau for today  
 Wed May 2 02:23:43 GMT 2001 PICS End Patrol  
 Wed May 2 02:25:08 GMT 2001 MKIV End Cal  
 Wed May 2 02:25:20 GMT 2001 MKIV Start Patrol  
 Wed May 2 02:43:19 GMT 2001 MKIV End Patrol  
 MKIV COMMENT: Wed May 2 02:44:47 GMT 2001  
 Had to reconfigure anyway to keep the guider on the Sun  
 Wed May 2 02:45:34 GMT 2001 MKIV Start Patrol  
 Wed May 2 02:51:28 GMT 2001 CHIP End Patrol

Wed May 2 02:51:49 GMT 2001 MKIV End Patrol

Wed May 2 02:51:57 GMT 2001 MKIV Start Cal

\*\*MKIV PROBLEM\*\* Wed May 2 03:03:06 GMT 2001

Lost tracking due to tight cables during coronal scan between  
call15 and dark. Dark is OK. Coronal scan between Cal0 and Call15  
is good.

Wed May 2 03:12:58 GMT 2001

MkIV

00_04.rawmk4	02_21.rawmk4	19_01.rawmk4	21_13.rawmk4	23_49.rawmk4
00_12.rawmk4	02_25.rawmk4	19_07.rawmk4	21_20.rawmk4	23_52.rawmk4
00_18.rawmk4	02_28.rawmk4	19_14.rawmk4	21_24.rawmk4	23_55.rawmk4
00_24.rawmk4	02_31.rawmk4	19_17.rawmk4	21_27.rawmk4	23_58.rawmk4
00_28.rawmk4	02_34.rawmk4	19_20.rawmk4	21_30.rawmk4	c00_09.rawmk4
00_31.rawmk4	02_37.rawmk4	19_23.rawmk4	21_33.rawmk4	c00_15.rawmk4
00_33.rawmk4	02_40.rawmk4	19_26.rawmk4	21_36.rawmk4	c00_21.rawmk4
00_36.rawmk4	02_45.rawmk4	19_29.rawmk4	21_39.rawmk4	c01_04.rawmk4
00_39.rawmk4	02_48.rawmk4	19_32.rawmk4	21_42.rawmk4	c01_11.rawmk4
00_42.rawmk4	02_55.rawmk4	19_35.rawmk4	21_45.rawmk4	c01_17.rawmk4
00_45.rawmk4	03_01.rawmk4	19_38.rawmk4	21_48.rawmk4	c02_06.rawmk4
00_48.rawmk4	03_07.rawmk4	19_41.rawmk4	21_51.rawmk4	c02_12.rawmk4
00_51.rawmk4	17_29.rawmk4	19_44.rawmk4	21_57.rawmk4	c02_18.rawmk4
00_54.rawmk4	17_32.rawmk4	19_47.rawmk4	22_05.rawmk4	c02_51.rawmk4
00_57.rawmk4	17_35.rawmk4	19_50.rawmk4	22_11.rawmk4	c02_58.rawmk4
01_00.rawmk4	17_38.rawmk4	19_52.rawmk4	22_17.rawmk4	c03_04.rawmk4
01_07.rawmk4	17_45.rawmk4	19_55.rawmk4	22_21.rawmk4	c17_42.rawmk4
01_14.rawmk4	17_51.rawmk4	19_58.rawmk4	22_24.rawmk4	c17_48.rawmk4
01_20.rawmk4	17_57.rawmk4	20_01.rawmk4	22_27.rawmk4	c17_54.rawmk4
01_23.rawmk4	18_04.rawmk4	20_09.rawmk4	22_30.rawmk4	c18_01.rawmk4
01_26.rawmk4	18_10.rawmk4	20_15.rawmk4	22_33.rawmk4	c18_07.rawmk4
01_29.rawmk4	18_16.rawmk4	20_21.rawmk4	22_47.rawmk4	c18_13.rawmk4
01_32.rawmk4	18_20.rawmk4	20_27.rawmk4	22_50.rawmk4	c18_58.rawmk4
01_35.rawmk4	18_22.rawmk4	20_30.rawmk4	22_53.rawmk4	c19_04.rawmk4
01_38.rawmk4	18_27.rawmk4	20_33.rawmk4	22_56.rawmk4	c19_11.rawmk4
01_41.rawmk4	18_30.rawmk4	20_36.rawmk4	23_09.rawmk4	c20_06.rawmk4
01_44.rawmk4	18_34.rawmk4	20_39.rawmk4	23_12.rawmk4	c20_12.rawmk4
01_47.rawmk4	18_37.rawmk4	20_42.rawmk4	23_21.rawmk4	c20_18.rawmk4
01_50.rawmk4	18_40.rawmk4	20_45.rawmk4	23_30.rawmk4	c21_04.rawmk4
01_55.rawmk4	18_43.rawmk4	20_50.rawmk4	23_33.rawmk4	c21_10.rawmk4
01_59.rawmk4	18_46.rawmk4	20_54.rawmk4	23_37.rawmk4	c21_17.rawmk4
02_02.rawmk4	18_49.rawmk4	20_57.rawmk4	23_40.rawmk4	c22_01.rawmk4
02_09.rawmk4	18_52.rawmk4	21_00.rawmk4	23_43.rawmk4	c22_08.rawmk4
02_15.rawmk4	18_55.rawmk4	21_07.rawmk4	23_46.rawmk4	c22_14.rawmk4