

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

Wed Dec 17 17:09:04 GMT 2003

Year: 03 Doy: 351

Observer: yasukawa

WEATHER COMMENT: Wed Dec 17 17:10:33 GMT 2003

Cool, clear, west wind. Cirrostratus bands approaching from west.

Wed Dec 17 17:16:45 GMT 2003 CHIP Start Patrol

Wed Dec 17 17:16:54 GMT 2003 PICS Start Patrol

PSPT COMMENT: Wed Dec 17 17:19:05 GMT 2003

Start-up.

ECHO COMMENT: Wed Dec 17 17:20:24 GMT 2003

Timd OK.

A NEW TAPE HAS BEEN PUT INTO KAIEE DLT DRIVE, Wed Dec 17 17:25:29 GMT 2003

PSPT COMMENT: Wed Dec 17 17:27:05 GMT 2003

Observing.

**\*\*ECHO PROBLEM\*\***: Wed Dec 17 17:29:02 GMT 2003

No images on display, sighting over the top of the guider head, methinks it may be pointing a bit below where sun is.

MKIV COMMENT: Wed Dec 17 17:50:30 GMT 2003

Centered O1 after mk4 cleared dome cylinder.

WEATHER COMMENT: Wed Dec 17 17:50:48 GMT 2003

Passing cirrostratus band.

Wed Dec 17 17:57:24 GMT 2003 MKIV Start Patrol

Wed Dec 17 18:01:48 GMT 2003 CHIP LSD

Wed Dec 17 18:02:10 GMT 2003 PICS Flat

Wed Dec 17 18:03:30 GMT 2003 CHIP End LSD

Wed Dec 17 18:03:48 GMT 2003 CHIP BiasLSD

Wed Dec 17 18:04:29 GMT 2003 PICS End Flat

Wed Dec 17 18:04:44 GMT 2003 CHIP End BiasLSD

Wed Dec 17 18:04:59 GMT 2003 CHIP Bias

Wed Dec 17 18:05:59 GMT 2003 CHIP End Bias

**\*\*ECHO PROBLEM\*\***: Wed Dec 17 18:38:19 GMT 2003

got image back in display by changing HA error to use from -0.25 to -1.28 and Dec error to use from 0.159 to 0.32.

Image is close to left edge of display but changing values further did not change image location.

MKIV COMMENT: Wed Dec 17 18:59:22 GMT 2003

Centered O1.

MKIV COMMENT: Wed Dec 17 19:01:47 GMT 2003

MKIV COMMENT: Wed Dec 17 19:01:57 GMT 2003

Canceled Cal request, just got into large patch of cirrus.

WEATHER COMMENT: Wed Dec 17 19:25:32 GMT 2003

In clear hole.

Wed Dec 17 19:26:04 GMT 2003 MKIV End Patrol

**\*\*MKIV PROBLEM\*\***: Wed Dec 17 19:27:41 GMT 2003

Opal did not go all the way in. Moved it in by hand.

After 0-tilt scan, opal stalled moving out. Had to move it out all the way by hand.

\*\*MKIV PROBLEM\*\*:  
Wed Dec 17 19:37:15 GMT 2003

Helped opal along again before and after 15-tilt calibration scans.

\*\*MKIV PROBLEM\*\*:  
Wed Dec 17 19:43:11 GMT 2003

Helped opal out after dark scan.

WEATHER COMMENT:  
Wed Dec 17 19:43:48 GMT 2003

In cirrostratus. Idling mk4 after calibration series pau until sun moves out of cirrostratus deck.

Wed Dec 17 19:45:47 GMT 2003 MKIV End Cal

Wed Dec 17 19:51:48 GMT 2003 CHIP End Patrol

\*\*MKIV PROBLEM\*\*:  
Wed Dec 17 19:51:56 GMT 2003

Stopping CHIP and PICS in cirrus to tighten up opal mechanism. Need to remove the shroud over O1 area, this will upset spar balance while working on the opal mechanism.

Wed Dec 17 19:53:25 GMT 2003 PICS End Patrol

Wed Dec 17 20:29:44 GMT 2003 CHIP Start Patrol

Wed Dec 17 20:29:50 GMT 2003 PICS Start Patrol

\*\*PSPT PROBLEM\*\*:  
Wed Dec 17 20:29:39 GMT 2003

Well.... PSPT decided to crash while I was working on the MK4 opal.

Crashed at "MirIsOn = 0 CapIsOpen = 1" at 1957 UT. Killed/restarted.

\*\*MKIV PROBLEM\*\*:  
Wed Dec 17 20:34:00 GMT 2003

Did not see a simple way to fix opal. Need to await Darryl's examination and assessment and two-person day so someone can exercise the opal while the other observer watches the action. Opal is pinned to motor shaft with a roll pin and the location of the pin is very awkward. May need to remove and disassemble mechanism to repair. Problem could alternately be a motor stall. In the meantime, observer will have to assist the opal during calibration.

Wed Dec 17 20:37:17 GMT 2003 MKIV Start Patrol

MKIV COMMENT:  
Wed Dec 17 20:37:19 GMT 2003

Dusted off O1 after reassembling opal/O1 housing covers.

MKIV COMMENT:  
Wed Dec 17 21:24:30 GMT 2003

Centered O1.

COMMENT:  
Wed Dec 17 21:36:35 GMT 2003

Declination reset. Repointed spar and reset guider.

\*\*MKIV PROBLEM\*\*:  
Wed Dec 17 21:48:11 GMT 2003

Images in xanim window look saturated compared to raw images on KCC monitor.

cmdtool is also not updating because edit log size has exceeded its maximum.

Stopping and restarting Run.

Wed Dec 17 21:54:02 GMT 2003 MKIV End Patrol

Wed Dec 17 21:56:00 GMT 2003

MkIV

---

Mauna Loa Solar Observatory Observer's Log

---

Wed Dec 17 21:56:26 GMT 2003

Year: 03 Doy: 351  
Observer: yasukawa  
Wed Dec 17 21:57:24 GMT 2003 MKIV Start Patrol  
\*\*MKIV PROBLEM\*\*: Wed Dec 17 21:50:31 GMT 2003

\*\*MKIV PROBLEM\*\*: Wed Dec 17 22:06:32 GMT 2003  
Xanim images still hosed, raw images still look OK when not in clouds.  
\*\*MKIV PROBLEM\*\*: Wed Dec 17 22:09:35 GMT 2003  
Cmdtool funnies and maybe the xanim funnies may be due to the slew of  
"gauss\_func zeros!" entries I am seeing and then comments about a lousy fit  
(can't see the comment because the cmdtool window has frozen).  
\*\*MKIV PROBLEM\*\*: Wed Dec 17 22:13:33 GMT 2003  
Stopping again. This time I will be trying to exit and reboot nahenahe and  
KCC.  
Wed Dec 17 22:17:52 GMT 2003  
MkIV

---

Mauna Loa Solar Observatory Observer's Log

---

Wed Dec 17 22:25:48 GMT 2003  
Year: 03 Doy: 351  
Observer: yasukawa  
Wed Dec 17 22:30:38 GMT 2003 MKIV Start Patrol  
MKIV COMMENT: Wed Dec 17 22:33:47 GMT 2003  
Centered O1.  
\*\*MKIV PROBLEM\*\*: Wed Dec 17 22:35:34 GMT 2003  
Reboot appeared to have gotten rid of the "gauss\_func zeroes!" and cleaned up  
the xanim images.  
WEATHER COMMENT: Wed Dec 17 22:46:52 GMT 2003  
In broken cirrostratus again.  
WEATHER COMMENT: Thu Dec 18 01:01:44 GMT 2003  
In extensive cirrostratus, pausing mk4.  
Thu Dec 18 01:03:49 GMT 2003 MKIV End Patrol  
Thu Dec 18 02:28:24 GMT 2003 PICS End Patrol  
Thu Dec 18 02:30:20 GMT 2003 CHIP End Patrol  
Thu Dec 18 02:31:21 GMT 2003  
MkIV

00_01.rawmk4	18_06.rawmk4	19_16.rawmk4	21_30.rawmk4	23_05.rawmk4
00_04.rawmk4	18_09.rawmk4	19_19.rawmk4	21_33.rawmk4	23_08.rawmk4
00_07.rawmk4	18_12.rawmk4	19_22.rawmk4	21_36.rawmk4	23_11.rawmk4
00_10.rawmk4	18_15.rawmk4	19_30.rawmk4	21_39.rawmk4	23_14.rawmk4
00_13.rawmk4	18_18.rawmk4	19_36.rawmk4	21_41.rawmk4	23_17.rawmk4
00_16.rawmk4	18_21.rawmk4	19_42.rawmk4	21_44.rawmk4	23_20.rawmk4

00_19.rawmk4	18_23.rawmk4	20_37.rawmk4	21_47.rawmk4	23_23.rawmk4
00_22.rawmk4	18_26.rawmk4	20_40.rawmk4	21_50.rawmk4	23_26.rawmk4
00_25.rawmk4	18_29.rawmk4	20_43.rawmk4	21_57.rawmk4	23_29.rawmk4
00_28.rawmk4	18_32.rawmk4	20_46.rawmk4	22_00.rawmk4	23_32.rawmk4
00_31.rawmk4	18_35.rawmk4	20_49.rawmk4	22_03.rawmk4	23_35.rawmk4
00_34.rawmk4	18_38.rawmk4	20_52.rawmk4	22_06.rawmk4	23_38.rawmk4
00_37.rawmk4	18_41.rawmk4	20_54.rawmk4	22_30.rawmk4	23_41.rawmk4
00_40.rawmk4	18_44.rawmk4	20_57.rawmk4	22_33.rawmk4	23_44.rawmk4
00_43.rawmk4	18_47.rawmk4	21_00.rawmk4	22_36.rawmk4	23_47.rawmk4
00_45.rawmk4	18_50.rawmk4	21_03.rawmk4	22_39.rawmk4	23_50.rawmk4
00_48.rawmk4	18_53.rawmk4	21_06.rawmk4	22_42.rawmk4	23_53.rawmk4
00_51.rawmk4	18_56.rawmk4	21_09.rawmk4	22_45.rawmk4	23_56.rawmk4
00_54.rawmk4	18_59.rawmk4	21_12.rawmk4	22_48.rawmk4	23_58.rawmk4
00_57.rawmk4	19_02.rawmk4	21_15.rawmk4	22_51.rawmk4	c19_26.rawmk4
01_00.rawmk4	19_05.rawmk4	21_18.rawmk4	22_54.rawmk4	c19_33.rawmk4
17_57.rawmk4	19_08.rawmk4	21_21.rawmk4	22_57.rawmk4	c19_39.rawmk4
18_00.rawmk4	19_11.rawmk4	21_24.rawmk4	23_00.rawmk4	
18_03.rawmk4	19_13.rawmk4	21_27.rawmk4	23_03.rawmk4	