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Mauna Loa Solar Observatory Observer's Log  
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Fri Aug 27 16:33:58 GMT 1999

Year: 99 Doy: 239

Observer: yasukawa

WEATHER COMMENT: Fri Aug 27 16:34:46 GMT 1999

Cool, clear, light southeast wind.

Fri Aug 27 16:35:18 GMT 1999 CHIP Startup--Initializing new tape

Fri Aug 27 16:39:34 GMT 1999 PICS Start Patrol

Fri Aug 27 16:39:58 GMT 1999 CHIP CHIP Start Patrol

Fri Aug 27 16:44:07 GMT 1999 MKIV Start Patrol

\*\*MKIV PROBLEM\*\*: Fri Aug 27 16:48:33 GMT 1999

Bright regions on east and west, due to pre-sunrise condition (looking at the dome wall) is streaky, dark regions not streaked. Not sure if this is an effect of all the changes going on with MKIV but it shouldn't hurt to reset the KCC while MKIV is still domed out.

Fri Aug 27 16:56:37 GMT 1999 MKIV Start Patrol

\*\*MKIV PROBLEM\*\*: Fri Aug 27 16:59:32 GMT 1999

Streaks gone.

Fri Aug 27 17:01:49 GMT 1999 CHIP Bias

Fri Aug 27 17:02:38 GMT 1999 CHIP End Bias

Fri Aug 27 17:02:46 GMT 1999 CHIP Water

Fri Aug 27 17:03:22 GMT 1999 CHIP End Water

\*\*MKIV PROBLEM\*\*: Fri Aug 27 17:08:22 GMT 1999

Did a Cancel KccRead, then a KccRead & to pick up a new MKIV display

for nahenahe. Noticed that barrel stopped after first scan, this occurred before the Cancels.

David is currently trying to get things to work.

\*\*MKIV PROBLEM\*\*: Fri Aug 27 17:18:09 GMT 1999

Barrel stalled again.

Downloading new version of code again.

Fri Aug 27 17:26:12 GMT 1999 MKIV Start Patrol

\*\*MKIV PROBLEM\*\*: Fri Aug 27 17:53:42 GMT 1999

David removed routine using raw data from the code and the program now works. Barrel is scanning and the MKIV gif images are being displayed on nahenahe--very nice!

Fri Aug 27 18:00:48 GMT 1999 CHIP Bias

Fri Aug 27 18:01:45 GMT 1999 CHIP End Bias

Fri Aug 27 18:02:05 GMT 1999 PICS Flat

Fri Aug 27 18:02:05 GMT 1999 PICS Flat

Fri Aug 27 18:02:46 GMT 1999 CHIP End Water

Fri Aug 27 18:04:41 GMT 1999 PICS End Flat

MKIV COMMENT: Fri Aug 27 18:29:49 GMT 1999

Calibration pau. Installing prime focus height mask to document new alignment.

MKIV COMMENT: Fri Aug 27 18:35:48 GMT 1999

Height mask in place, taking a couple of coronal scans.

Fri Aug 27 18:36:21 GMT 1999 MKIV Start Patrol

Fri Aug 27 18:43:17 GMT 1999 MKIV End Patrol  
Fri Aug 27 18:43:37 GMT 1999 MKIV Start Patrol  
MKIV COMMENT: Fri Aug 27 18:44:05 GMT 1999  
Running height mask test with opal in.  
MKIV COMMENT: Fri Aug 27 18:50:09 GMT 1999  
height mask test pau. Removing mask.  
Fri Aug 27 18:55:10 GMT 1999 MKIV Start Patrol  
MKIV COMMENT: Fri Aug 27 18:55:17 GMT 1999  
Resuming patrol until time to reconfigure dome shutter.  
Fri Aug 27 19:02:54 GMT 1999 CHIP Bias  
Fri Aug 27 19:03:04 GMT 1999 PICS polarization\_calibration  
Fri Aug 27 19:03:56 GMT 1999 CHIP End Bias  
Fri Aug 27 19:04:06 GMT 1999 CHIP Water  
Fri Aug 27 19:04:42 GMT 1999 CHIP End Water  
COMMENT: Fri Aug 27 19:05:57 GMT 1999  
Stopping to reconfigure dome shutter.  
Fri Aug 27 19:07:39 GMT 1999 CHIP CHIP End Patrol  
Fri Aug 27 19:09:00 GMT 1999 MKIV End Patrol  
Fri Aug 27 19:13:48 GMT 1999 PICS End Patrol  
Fri Aug 27 19:28:40 GMT 1999 MKIV Start Patrol  
COMMENT: Fri Aug 27 19:28:45 GMT 1999  
Starting MKIII/IV and CHIP.  
HIP CHIP Start Patrol  
PICS COMMENT: Fri Aug 27 19:29:11 GMT 1999  
Setting up PICS for Hartman mask focus test.  
PICS COMMENT: Fri Aug 27 19:30:58 GMT 1999  
Will begin by testing software routine and taking a set of focus data  
with micrometer setting at "original" setting of 15373.5  
Hartman mask 3 cm. wide placed across middle of O1 in east/west direction.  
Fri Aug 27 19:34:10 GMT 1999 PICS Start Focus  
Fri Aug 27 19:40:31 GMT 1999 PICS End Focus  
Fri Aug 27 19:42:23 GMT 1999 PICS Start Focus  
Fri Aug 27 19:45:23 GMT 1999 PICS End Focus  
PICS COMMENT: Fri Aug 27 19:47:12 GMT 1999  
Focus program needed modification to get the prompts to work but it  
would not pause for data entry and prompts. We decided to do the data  
entry via phone and use abort to stop the program as end did not work.  
Pausing test to determine which way camera moves per micrometer entry  
and to set camera forward of current focus.  
PICS COMMENT: Fri Aug 27 20:02:53 GMT 1999  
Founf directional info on sheet of paper that was hiding under the  
notepad. A jog of micrometer UP, moves the camera to the rear.  
Moved the camera forward 1000 microns and will begin test at  
14365.9 and move in +200 micron increments (approximately).  
Fri Aug 27 20:07:22 GMT 1999 CHIP End Gain  
Fri Aug 27 20:07:36 GMT 1999 CHIP Bias  
Fri Aug 27 20:07:51 GMT 1999 PICS Start Focus  
Fri Aug 27 20:08:29 GMT 1999 CHIP End Bias

Fri Aug 27 20:08:43 GMT 1999 CHIP Water  
Fri Aug 27 20:09:18 GMT 1999 CHIP End Water  
PICS COMMENT: Fri Aug 27 20:12:29 GMT 1999  
David modified the program, meanwhile, so that I could run the test  
from the cmdtool window. Tested it and it works so test is proceeding.  
PICS COMMENT: Fri Aug 27 20:23:30 GMT 1999  
Ran from 14365 back to 15373. Running +1000 microns beyond old setting now.  
PICS COMMENT: Fri Aug 27 20:37:19 GMT 1999  
OK, ran thru micrometer settings. Focus on disk looked good between 15373 and  
15573(approximate). I will try 3 more settings, approximately  
15273, 15473, and 15673.... uh, maybe one more at 15873.  
PICS COMMENT: Fri Aug 27 20:41:14 GMT 1999  
pushed camera forward to new micrometer setting 15264 and will work back  
again.  
PICS COMMENT: Fri Aug 27 20:51:26 GMT 1999  
OK, test is pau. Setting focus back close to where it was, securing  
camera, replacing covers, and removing Hartman mask.  
Fri Aug 27 21:01:16 GMT 1999 CHIP Bias  
Fri Aug 27 21:02:14 GMT 1999 CHIP End Bias  
Fri Aug 27 21:02:31 GMT 1999 CHIP Water  
Fri Aug 27 21:03:17 GMT 1999 CHIP End Water  
COMMENT: Fri Aug 27 21:06:36 GMT 1999  
Jostled spar around putting covers back on PICS.  
MKIII/MKIV and CHIP hourly images probably hosed.  
PICS COMMENT: Fri Aug 27 21:07:41 GMT 1999  
PICS back close to original focus. Focus at 15371.3  
Fri Aug 27 21:08:56 GMT 1999 PICS Start Patrol  
PICS COMMENT: Fri Aug 27 21:16:46 GMT 1999  
Focus test images are stored on disk in Boulder with the micrometer  
settings attached to the files. These will be analyzed there probably  
using an IDL program to determine the best focus.  
MKIV COMMENT: Fri Aug 27 21:34:36 GMT 1999  
Stopped, doing an End Day to initialize the barrel and then resetting  
the KCC to pick up latest version of David's software for test.  
Fri Aug 27 21:39:08 GMT 1999 MKIV Start Patrol  
MKIV COMMENT: Fri Aug 27 21:39:18 GMT 1999  
Starting up Patrol with the new KCC software version.  
\*\*MKIV PROBLEM\*\*: Fri Aug 27 21:42:41 GMT 1999  
There were two radial dropouts on first pass. Access Fault occurred  
after stop of first scan. Message follows:

```
send_time  
/local/d/Data/MkIII/21_39.rawmk3
```

```
Access Fault  
Program Counter: 0x00073380  
Status Register: 0x3004  
Access Address : 0x04040443
```

Special Status : 0x0125  
Task: 0x398ae4 "Dalsa"  
/local/d/Data/MkIV/21\_39.rawmk4

\*\*MKIV PROBLEM\*\* : Fri Aug 27 21:44:11 GMT 1999  
Barrel not starting up again.  
\*\*MKIV PROBLEM\*\* : Fri Aug 27 21:47:04 GMT 1999  
Downloaded the current version again, resetting KCC to pick it back up.  
Fri Aug 27 21:50:53 GMT 1999 MKIV Start Patrol  
MKIV COMMENT: Fri Aug 27 21:51:01 GMT 1999  
barrel initialized, starting Patrol.  
\*\*MKIV PROBLEM\*\* : Fri Aug 27 21:51:59 GMT 1999  
Image is not being written to display. Queueing up Idle.

\*\*MKIV PROBLEM\*\* : Fri Aug 27 21:57:04 GMT 1999  
No gif image on nahenahe either, just a dark screen. Scan did turn around  
OK. Stopped at end correctly.

No image with last scan either.

Fri Aug 27 22:00:48 GMT 1999 CHIP Bias  
Fri Aug 27 22:01:40 GMT 1999 CHIP End Bias  
Fri Aug 27 22:01:50 GMT 1999 CHIP Water  
Fri Aug 27 22:02:28 GMT 1999 CHIP End Water

\*\*MKIV PROBLEM\*\* : Fri Aug 27 22:04:00 GMT 1999  
David had no clue as to what went wrong, we supposedly had the program  
that was working loaded. Resetting KCC and trying again.

\*\*MKIV PROBLEM\*\* : Fri Aug 27 22:05:55 GMT 1999  
Could a "4p" I typed in while cursor was in akamai window by mistake,  
did not do a return because Messages were flying by at the time,  
cause program to screw up???

Fri Aug 27 22:07:38 GMT 1999 MKIV Start Patrol

\*\*MKIV PROBLEM\*\* : Fri Aug 27 22:08:28 GMT 1999  
KCC display is back. I almost did it again... mouse had moved cursor into  
akamai window unbeknownst to me, and I started typing a log entry.  
fortunately David has the system \*IN USE\* via rlogin. Nothing got  
written to akamai window by that screw-up.

Fri Aug 27 22:11:26 GMT 1999 PICS End Patrol  
Fri Aug 27 22:11:26 GMT 1999 PICS End Patrol  
Fri Aug 27 22:12:43 GMT 1999 CHIP ending tape

COMMENT: Fri Aug 27 22:16:01 GMT 1999

Tapes

MKIV: 99-239  
PICS: P01531  
CHIP: C00907  
LOWL: L00622 in drive 0  
Fri Aug 27 22:21:24 GMT 1999  
MkIII

16\_44.rawmk3 18\_04.rawmk3 19\_39.rawmk3 20\_31.rawmk3 21\_23.rawmk3

16_47.rawmk3	18_11.rawmk3	19_42.rawmk3	20_34.rawmk3	21_26.rawmk3
16_56.rawmk3	18_18.rawmk3	19_46.rawmk3	20_38.rawmk3	21_30.rawmk3
17_12.rawmk3	18_25.rawmk3	19_49.rawmk3	20_41.rawmk3	21_39.rawmk3
17_26.rawmk3	18_36.rawmk3	19_53.rawmk3	20_45.rawmk3	21_51.rawmk3
17_29.rawmk3	18_39.rawmk3	19_56.rawmk3	20_48.rawmk3	21_54.rawmk3
17_33.rawmk3	18_43.rawmk3	20_00.rawmk3	20_51.rawmk3	22_07.rawmk3
17_36.rawmk3	18_47.rawmk3	20_03.rawmk3	20_55.rawmk3	22_11.rawmk3
17_40.rawmk3	18_55.rawmk3	20_06.rawmk3	20_58.rawmk3	c18_07.rawmk3
17_43.rawmk3	18_58.rawmk3	20_10.rawmk3	21_02.rawmk3	c18_14.rawmk3
17_46.rawmk3	19_02.rawmk3	20_13.rawmk3	21_05.rawmk3	c18_21.rawmk3
17_50.rawmk3	19_05.rawmk3	20_17.rawmk3	21_09.rawmk3	
17_53.rawmk3	19_28.rawmk3	20_20.rawmk3	21_12.rawmk3	
17_57.rawmk3	19_32.rawmk3	20_24.rawmk3	21_16.rawmk3	
18_00.rawmk3	19_35.rawmk3	20_27.rawmk3	21_19.rawmk3	