## Mauna Loa Solar Observatory Observer's Log \_\_\_\_\_\_ Wed Mar 3 17:51:54 GMT 1999 Year: 99 Doy: 062 Observer: koon WEATHER COMMENT: Wed Mar 3 17:51:56 GMT 1999 Clear sky, wind=5 mph from the SW, temp=40 F. Patrol Wed Mar 3 17:56:26 GMT 1999 CHIP Startup--Initializing new tape Wed Mar 3 17:58:15 GMT 1999 CHIP CHIP Start Patrol Wed Mar 3 17:58:51 GMT 1999 PICS Start Patrol Wed Mar 3 18:00:42 GMT 1999 PICS Flat Wed Mar 3 18:02:01 GMT 1999 CHIP Bias PICS Wed Mar 3 18:02:24 GMT 1999 End Flat Wed Mar 3 18:03:07 GMT 1999 CHIP End Bias PICS COMMENT: Wed Mar 3 18:03:15 GMT 1999 I removed the tape P01381 from the drive, it was labeled with yesterdays date and was write protected. End Water HIP \*\*PICS PROBLEM\*\*: Wed Mar 3 18:46:20 GMT 1999 The disk image looks overexposed at the current exposure setting of 3. Wed Mar 3 19:00:46 GMT 1999 PICS Flat Wed Mar 3 19:01:53 GMT 1999 CHIP Bias Wed Mar 3 19:02:21 GMT 1999 End Flat PICS Wed Mar 3 19:02:46 GMT 1999 End Bias CHIP Wed Mar 3 19:02:56 GMT 1999 CHIP Water Wed Mar 3 19:03:38 GMT 1999 CHTP End Water \*\*PICS PROBLEM\*\*: Wed Mar 3 19:06:13 GMT 1999 I found an email from David saying he changed the limb exposure from 25 to 10 and the disk exposure from 3 to 2. For some reason the exposures are still 25 and 3, so I changed them to 10 and 2 in the ProgramDefs script which can be found in /local/usr/local/src/ACOS/Bin directory. \*\*PICS PROBLEM\*\*: Wed Mar 3 19:15:00 GMT 1999 The disk images now look great, the focus looks better than I've ever seen it. The display gain is set to 4 to see the best image quality, but that causes the limb images to be overexposed, so I am trying different limb exposure settings to find the setting that works the best with the display gain of 4. \*\*\*\* EVENT COMMENT \*\*\*\*: Wed Mar 3 19:40:41 GMT 1999 A faint CME has been in progress since about 1841 ut at PA=250, there is a nice small EPL at that location also. CHIP COMMENT: Wed Mar 3 19:58:15 GMT 1999 The EPL at PA=250 is visible in the images as continuum scaled pixels at the front of the EPL, indicating a doppler shift away from us. GMT 1999 CHIP

Wed Mar 3 20:02:08 GMT 1999 PICS End Flat Wed Mar 3 20:06:22 GMT 1999 CHIP End Gain

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Wed Mar 3 20:06:32 GMT 1999
                                CHIP
                                         Bias
Wed Mar 3 20:07:20 GMT 1999
                                CHIP
                                         End Bias
Wed Mar 3 20:07:30 GMT 1999
                                CHIP
                                         Water
Wed Mar 3 20:08:06 GMT 1999
                                CHIP
                                         End Water
**MKIV PROBLEM**: Wed Mar 3 20:45:10 GMT 1999
I noticed the last scan looked funny and that the barrel was stuck at
azimuth=278 +/- 2 degrees, it was kind of oscillating slightly. I waited
for a full 6 minutes hoping that it would clear by the next cycle where
the barrel is at the same place and going in the same direction as the
software might see it (although in reality it just sat there for those
6 minutes and wasn't really turning according to the Barrel Angle LED
readout on the OCP panel. That worked, the problem cleared itself, it
is scanning normally again.
        CHIP
                 Bias
Wed Mar 3 21:03:42 GMT 1999
                                CHIP
                                         End Bias
Wed Mar 3 21:03:58 GMT 1999
                                CHIP
                                         Water
Wed Mar 3 21:04:36 GMT 1999
                                CHIP
                                         End Water
**** EVENT COMMENT ****: Wed Mar 3 21:07:57 GMT 1999
CME is still in progress.
PICS COMMENT: Wed Mar 3 21:08:27 GMT 1999
The camera needs to be centered in th X direction, I will hold off on doing
that until after the CME is finished because I'll be bumping the Spar
around while I adjust the camera. The optimum exposure times appear to be
3 msec for the limb images and 5 msec for the disk images. The Display Gain
should be set to 2 when adjusting the exposure, to get the most accurate
view displayed in the Display window of what the actually sees. During
normal observations the Display Gain also works well when set to 2.
Wed Mar 3 22:01:41 GMT 1999
                                PTCS
                                         Flat
Wed Mar 3 22:02:47 GMT 1999
                                         Bias
                                CHIP
Wed Mar 3 22:03:08 GMT 1999
                                         End Flat
                                PICS
Wed Mar 3 22:03:57 GMT 1999
                                CHIP
                                         End Bias
Wed Mar 3 22:04:07 GMT 1999
                                CHIP
                                         Water
Wed Mar 3 22:04:45 GMT 1999
                                CHIP
                                         End Water
Wed Mar 3 22:32:06 GMT 1999
                                MKIII
                                         Start Cal
MKIV COMMENT: Wed Mar 3 22:35:26 GMT 1999
The CME looked like it was finished so I finally started the calibration,
then I noticed that the dome slot was starting to cut off the PICS and
CHIP so I quickly ran up and extended the slot before the cal could start.
But I didn't make it, the first quadrant of the first cal scan was affected
by having the dome shutter blocking the sun. So I will do another cal after
this cal, the 2nd cal is the good one.
PICS COMMENT: Wed Mar 3 22:39:11 GMT 1999
I'll try to do the camera adjustment tomorrow, not enough time left today.
Wed Mar 3 22:52:15 GMT 1999
                                         End Cal
                                MKIII
Wed Mar 3 22:56:09 GMT 1999
                                         Start Cal
                                MKIII
Wed Mar 3 23:01:31 GMT 1999
                                PICS
                                         Flat
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CHIP

PICS

Bias

End Flat

Wed Mar 3 23:02:01 GMT 1999

Wed Mar 3 23:02:59 GMT 1999

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Wed Mar
         3 23:02:59 GMT 1999
                                 PICS
                                          End Flat
Wed Mar
         3 23:03:11 GMT 1999
                                 CHIP
                                          Water
Wed Mar
         3 23:03:58 GMT 1999
                                 CHIP
                                          End Water
Wed Mar
         3 23:16:19 GMT 1999
                                 MKIII
                                          End Cal
Wed Mar
         3 23:22:26 GMT 1999
                                 CHIP
                                          CHIP End Patrol
Wed Mar
        3 23:28:03 GMT 1999
                                          ending tape
                                 CHIP
Wed Mar 3 23:28:27 GMT 1999
                                          End Patrol
                                 PICS
**MLSO PROBLEM**: Wed Mar 3 23:45:15 GMT 1999
Network crashed while I was logged into Boulder writing an email. Sure would
be nice if we had our own email server up here.
**MLSO PROBLEM**: Wed Mar 3 23:54:56 GMT 1999
I was able to login to Boulder using the modem and RAS account.
COMMENT: Thu Mar 4 00:10:29 GMT 1999
TAPES:
*****
MKIV: 99062
CHIP: C00796
PICS: P01382
LOWL: L00584 in drive #0
Thu Mar
        4 00:11:57 GMT 1999
        MkIII
17 55.rawmk3
               19 00.rawmk3
                               20 05.rawmk3
                                              21 08.rawmk3
                                                              22 12.rawmk3
17 59.rawmk3
               19 03.rawmk3
                               20 08.rawmk3
                                              21 11.rawmk3
                                                             22 16.rawmk3
18 02.rawmk3
                                              21 14.rawmk3
                                                              22 19.rawmk3
               19 06.rawmk3
                               20 11.rawmk3
               19 10.rawmk3
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18 05.rawmk3
18_08.rawmk3
               19_13.rawmk3
                               20_18.rawmk3
                                              21_21.rawmk3
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18_12.rawmk3
               19_16.rawmk3
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18_15.rawmk3
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18_18.rawmk3
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18_21.rawmk3
               19_26.rawmk3
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                                              21_34.rawmk3
18 25.rawmk3
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                                                              22 59.rawmk3
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20 37.rawmk3

20 40.rawmk3

20 41.rawmk3

20\_45.rawmk3

20 48.rawmk3

20 52.rawmk3

20\_55.rawmk3

20 58.rawmk3

21 01.rawmk3

21\_05.rawmk3

21 40.rawmk3

21 43.rawmk3

21 47.rawmk3

21\_50.rawmk3

21 53.rawmk3

21 56.rawmk3

21\_59.rawmk3

22 03.rawmk3

22 06.rawmk3

22\_09.rawmk3

23 06.rawmk3

23 13.rawmk3

c22 32.rawmk3

c22\_38.rawmk3

c22 45.rawmk3

c22 56.rawmk3

c23\_02.rawmk3

c23\_09.rawmk3

18\_28.rawmk3

18 31.rawmk3

18\_34.rawmk3 18\_37.rawmk3

18 41.rawmk3

18 44.rawmk3

18\_47.rawmk3

18 50.rawmk3

18 54.rawmk3

18\_57.rawmk3

19\_32.rawmk3

19 36.rawmk3

19 39.rawmk3

19\_42.rawmk3

19 45.rawmk3

19 48.rawmk3

19\_52.rawmk3

19 55.rawmk3

19 58.rawmk3

20\_01.rawmk3