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Mauna Loa Solar Observatory Observer's Log  
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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

Wed Mar 3 18:02:24 GMT 1999 PICS 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.

HIP End Water

\*\*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 PICS End Flat

Wed Mar 3 19:02:46 GMT 1999 CHIP End Bias

Wed Mar 3 19:02:56 GMT 1999 CHIP Water

Wed Mar 3 19:03:38 GMT 1999 CHIP 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 Gain

Wed Mar 3 20:02:08 GMT 1999 PICS End Flat

Wed Mar 3 20:06:22 GMT 1999 CHIP End Gain

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 PICS Flat  
Wed Mar 3 22:02:47 GMT 1999 CHIP Bias  
Wed Mar 3 22:03:08 GMT 1999 PICS End Flat  
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 MKIII End Cal  
Wed Mar 3 22:56:09 GMT 1999 MKIII Start Cal  
Wed Mar 3 23:01:31 GMT 1999 PICS Flat  
Wed Mar 3 23:02:01 GMT 1999 CHIP Bias  
Wed Mar 3 23:02:59 GMT 1999 PICS End Flat  
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 CHIP ending tape  
Wed Mar 3 23:28:27 GMT 1999 PICS End Patrol

\*\*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:

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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	19_06.rawmk3	20_11.rawmk3	21_14.rawmk3	22_19.rawmk3
18_05.rawmk3	19_10.rawmk3	20_14.rawmk3	21_18.rawmk3	22_22.rawmk3
18_08.rawmk3	19_13.rawmk3	20_18.rawmk3	21_21.rawmk3	22_25.rawmk3
18_12.rawmk3	19_16.rawmk3	20_21.rawmk3	21_24.rawmk3	22_28.rawmk3
18_15.rawmk3	19_19.rawmk3	20_24.rawmk3	21_27.rawmk3	22_35.rawmk3
18_18.rawmk3	19_23.rawmk3	20_27.rawmk3	21_30.rawmk3	22_42.rawmk3
18_21.rawmk3	19_26.rawmk3	20_30.rawmk3	21_34.rawmk3	22_49.rawmk3
18_25.rawmk3	19_29.rawmk3	20_34.rawmk3	21_37.rawmk3	22_59.rawmk3
18_28.rawmk3	19_32.rawmk3	20_37.rawmk3	21_40.rawmk3	23_06.rawmk3
18_31.rawmk3	19_36.rawmk3	20_40.rawmk3	21_43.rawmk3	23_13.rawmk3
18_34.rawmk3	19_39.rawmk3	20_41.rawmk3	21_47.rawmk3	c22_32.rawmk3
18_37.rawmk3	19_42.rawmk3	20_45.rawmk3	21_50.rawmk3	c22_38.rawmk3

18_41.rawmk3	19_45.rawmk3	20_48.rawmk3	21_53.rawmk3	c22_45.rawmk3
18_44.rawmk3	19_48.rawmk3	20_52.rawmk3	21_56.rawmk3	c22_56.rawmk3
18_47.rawmk3	19_52.rawmk3	20_55.rawmk3	21_59.rawmk3	c23_02.rawmk3
18_50.rawmk3	19_55.rawmk3	20_58.rawmk3	22_03.rawmk3	c23_09.rawmk3
18_54.rawmk3	19_58.rawmk3	21_01.rawmk3	22_06.rawmk3	
18_57.rawmk3	20_01.rawmk3	21_05.rawmk3	22_09.rawmk3	