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Mauna Loa Solar Observatory Observer's Log  
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Tue Dec 15 18:09:29 GMT 1998

Year: 98 Doy: 349

Observer: yasukawa

WEATHER COMMENT: Tue Dec 15 18:09:43 GMT 1998

Warm, clear, no wind.

MKIV COMMENT: Tue Dec 15 18:10:00 GMT 1998

System just started up, Kitty and I were troubleshooting /local/e disk drive. Started CHIP at around 1723 UT--automatic logging has not been writing to logs as nahenahe was involved in troubleshoot. PICS did not initialize properly and I was trying to type in Cancel commands with one hand between troubleshoot tasks. I will start PICS up soon. We determined that the drive is not working. I removed it from the system, re cabled to tape drive, and we edited out local/e from /etc/vfstab file so the system won't look for it for now. I will ship faulty drive back to Boulder and CSMT will locate a replacement, format and partition it and ship it out to us.

Tue Dec 15 18:15:47 GMT 1998 MKIII Start Patrol

Tue Dec 15 18:16:04 GMT 1998 PICS Start Patrol

CHIP COMMENT: Tue Dec 15 18:16:37 GMT 1998

CHIP started up at 1723 UT.

LOW-L COMMENT: Tue Dec 15 18:20:39 GMT 1998

LOWL time and date OK. It was OK each time I checked it yesterday and this morning.

\*\*PSPT PROBLEM\*\*: Tue Dec 15 18:21:25 GMT 1998

PSPT stalled initializing focus. Stopped program and went thru focus stall recovery routine from PC (it is outlined in our log notebook). Restarting PSPT.

\*\*MKIV PROBLEM\*\*: Tue Dec 15 18:26:32 GMT 1998

MKIII OK, MKIV writing streaks to KCC display. Streaks are not at random azimuths like first scan of the day. There must be a timing problem between the modulator and the transformation board.

Tue Dec 15 18:35:14 GMT 1998 MKIII Start Cal

\*\*MKIV PROBLEM\*\*: Tue Dec 15 18:37:19 GMT 1998

I can see the streaks writing somewhat linearly, but backing up over a previous streak as it scans around.

\*\*MKIV PROBLEM\*\*: Tue Dec 15 18:44:25 GMT 1998

Listened to 1/2-wave plate motor and drivetrain, no unusual sounds or indications that there is binding or a bad bearing. P+S signal at monitor looks stable.

Tue Dec 15 18:55:25 GMT 1998 MKIII Start Patrol

\*\*MKIV PROBLEM\*\*: Tue Dec 15 18:59:59 GMT 1998

Stopping to try resetting KCC.

Tue Dec 15 19:00:14 GMT 1998 PICS Flat

Tue Dec 15 19:00:53 GMT 1998 CHIP Bias

Tue Dec 15 19:01:58 GMT 1998 MKIII End Patrol

Tue Dec 15 19:01:49 GMT 1998 CHIP End Bias  
 Tue Dec 15 19:01:49 GMT 1998 CHIP End Bias  
 Tue Dec 15 19:02:11 GMT 1998 CHIP Water  
 Tue Dec 15 19:02:52 GMT 1998 CHIP End Water  
 Tue Dec 15 19:04:17 GMT 1998 MKIII Start Patrol  
 \*\*MKIV PROBLEM\*\*: Tue Dec 15 19:06:36 GMT 1998  
 Streaking gone but no coronal image being written to display--image like a dark scan.  
 \*\*MKIV PROBLEM\*\*: Tue Dec 15 19:09:07 GMT 1998  
 OK, the KCC reset must have done the trick. Second scan looks good. No streaks, coronal image. I will repeat calibration in case that got screwed up.  
 Tue Dec 15 19:11:50 GMT 1998 MKIII Start Cal  
 Tue Dec 15 19:31:10 GMT 1998 PICS End Patrol  
 Tue Dec 15 19:32:00 GMT 1998 MKIII Start Patrol  
 \*\*PICS PROBLEM\*\*: Tue Dec 15 19:45:49 GMT 1998  
 Checking out shutter on PICS. Running Video mode on disc and changing exposures.  
 \*\*PICS PROBLEM\*\*: Tue Dec 15 19:47:33 GMT 1998  
 Camera image is blinking between a "nominal" exposure and a underexposed one, it doesn't go dark completely between displays. I can see what looks like partial nominal/underexp images occasionally, like a leaf shutter is caught partially in the image.  
 Tue Dec 15 19:51:28 GMT 1998 PICS Start Patrol  
 Tue Dec 15 20:00:49 GMT 1998 CHIP Gain  
 Tue Dec 15 20:02:22 GMT 1998 PICS Flat  
 \*\*\*\* EVENT COMMENT \*\*\*\*: Tue Dec 15 20:02:36 GMT 1998  
 There has been an active prominence that has been changing slowly throughout the morning at PA 225-245.  
 Tue Dec 15 20:03:49 GMT 1998 PICS End Flat  
 Tue Dec 15 20:05:35 GMT 1998 CHIP End Gain  
 Tue Dec 15 20:05:46 GMT 1998 CHIP Bias  
 Tue Dec 15 20:06:35 GMT 1998 CHIP End Bias  
 Tue Dec 15 20:06:45 GMT 1998 CHIP Water  
 Tue Dec 15 20:07:21 GMT 1998 CHIP End Water  
 PICS COMMENT: Tue Dec 15 20:07:42 GMT 1998  
 I may be speaking too soon, but that exercise I did with the shutter in Video mode seems to have stopped the disk image vignetting and the vertically split limb images on the Display window. I haven't seen a recurrence since doing the tests.  
 \*\*\*\* EVENT COMMENT \*\*\*\*: Tue Dec 15 20:34:19 GMT 1998  
 AP at PA 225-245 has receded back to the limb, not sure whether it erupted or not.  
 Tue Dec 15 21:00:14 GMT 1998 PICS Flat  
 Tue Dec 15 21:01:41 GMT 1998 PICS End Flat  
 Tue Dec 15 21:01:51 GMT 1998 CHIP Bias  
 Tue Dec 15 21:02:44 GMT 1998 CHIP End Bias  
 Tue Dec 15 21:03:04 GMT 1998 CHIP Water

Tue Dec 15 21:03:49 GMT 1998 CHIP End Water  
LOW-L COMMENT: Tue Dec 15 21:48:36 GMT 1998  
Date and time was correct each time I checked today.  
PICS COMMENT: Tue Dec 15 21:53:29 GMT 1998  
Image display has been good since performing the tests earlier.  
Disk image shows no gradient and exposure is good.  
Limb and k-corona images on display window have been centered  
well and not split vertically.  
PSPT COMMENT: Tue Dec 15 21:57:58 GMT 1998  
Packed up the thermoprinter for shipment back to Boulder since I will  
be going to FEDEX either this afternoon or tomorrow morning to  
ship the failed disk drive back to CSMT.  
Tue Dec 15 22:00:24 GMT 1998 PICS Flat  
Tue Dec 15 22:01:47 GMT 1998 CHIP Bias  
Tue Dec 15 22:01:56 GMT 1998 PICS End Flat  
Tue Dec 15 22:02:40 GMT 1998 CHIP End Bias  
Tue Dec 15 22:02:50 GMT 1998 CHIP Water  
Tue Dec 15 22:03:28 GMT 1998 CHIP End Water  
Tue Dec 15 22:06:54 GMT 1998 MKIII End Patrol  
Tue Dec 15 22:06:51 GMT 1998 PICS End Patrol  
Tue Dec 15 22:06:51 GMT 1998 PICS End Patrol  
Tue Dec 15 22:07:25 GMT 1998 CHIP ending tape  
COMMENT: Tue Dec 15 22:07:38 GMT 1998

TAPES:

MKIV: 98-349  
PICS: P01354  
CHIP: C00741  
LOWL: L00563

Tue Dec 15 22:08:47 GMT 1998  
MkIII

18_15.rawmk3	19_22.rawmk3	20_10.rawmk3	20_56.rawmk3	21_41.rawmk3
18_19.rawmk3	19_28.rawmk3	20_14.rawmk3	20_59.rawmk3	21_44.rawmk3
18_22.rawmk3	19_32.rawmk3	20_17.rawmk3	21_02.rawmk3	21_47.rawmk3
18_25.rawmk3	19_35.rawmk3	20_20.rawmk3	21_05.rawmk3	21_50.rawmk3
18_28.rawmk3	19_38.rawmk3	20_23.rawmk3	21_08.rawmk3	21_54.rawmk3
18_32.rawmk3	19_41.rawmk3	20_27.rawmk3	21_12.rawmk3	21_57.rawmk3
18_38.rawmk3	19_45.rawmk3	20_30.rawmk3	21_15.rawmk3	22_00.rawmk3
18_45.rawmk3	19_48.rawmk3	20_33.rawmk3	21_18.rawmk3	22_03.rawmk3
18_52.rawmk3	19_51.rawmk3	20_36.rawmk3	21_21.rawmk3	c18_35.rawmk3
18_55.rawmk3	19_54.rawmk3	20_39.rawmk3	21_25.rawmk3	c18_42.rawmk3
18_58.rawmk3	19_57.rawmk3	20_43.rawmk3	21_28.rawmk3	c18_48.rawmk3
19_05.rawmk3	20_01.rawmk3	20_46.rawmk3	21_31.rawmk3	c19_11.rawmk3
19_08.rawmk3	20_04.rawmk3	20_49.rawmk3	21_34.rawmk3	c19_18.rawmk3
19_15.rawmk3	20_07.rawmk3	20_52.rawmk3	21_37.rawmk3	c19_25.rawmk3