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Mauna Loa Solar Observatory Observer's Log  
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Fri Sep 17 16:37:27 GMT 1999

Year: 99 Doy: 260

Observer: yasukawa

WEATHER COMMENT: Fri Sep 17 16:39:46 GMT 1999

Cool, clear, light south wind.

Fri Sep 17 16:40:20 GMT 1999 CHIP Startup--Initializing new tape

Fri Sep 17 16:43:38 GMT 1999 MKIV Start Patrol

Fri Sep 17 16:44:05 GMT 1999 CHIP CHIP Start Patrol

Fri Sep 17 16:44:30 GMT 1999 PICS Start Patrol

LOW-L COMMENT: Fri Sep 17 16:47:58 GMT 1999

File count at 71. Unloaded L00627 from drive 0, cleaned drive.

Data redirected to L00628 in drive 1. Loaded L00629 in drive 0.

\*\*MKIV PROBLEM\*\*: Fri Sep 17 16:51:11 GMT 1999

Bright wings (domed out yet) streaked radially. Stopping scan and resetting KCC.

Fri Sep 17 16:57:18 GMT 1999 MKIV End Patrol

Fri Sep 17 17:02:50 GMT 1999 CHIP Bias

Fri Sep 17 17:03:39 GMT 1999 CHIP End Bias

Fri Sep 17 17:03:49 GMT 1999 CHIP Water

Fri Sep 17 17:04:28 GMT 1999 CHIP End Water

Fri Sep 17 17:04:48 GMT 1999 MKIV Start Patrol

\*\*PSPT PROBLEM\*\*: Fri Sep 17 17:23:39 GMT 1999

Guider wouldn't acquire sun. Did a gdr ephmcal and restarted (Run).

Fri Sep 17 18:00:33 GMT 1999 PICS Flat

Fri Sep 17 18:01:49 GMT 1999 CHIP Bias

Fri Sep 17 18:02:48 GMT 1999 CHIP End Bias

Fri Sep 17 18:02:58 GMT 1999 CHIP Water

Fri Sep 17 18:03:13 GMT 1999 PICS End Flat

Fri Sep 17 18:03:37 GMT 1999 CHIP End Water

Fri Sep 17 18:07:48 GMT 1999 MKIV Start Cal

Fri Sep 17 18:29:35 GMT 1999 MKIV Start Patrol

Fri Sep 17 19:00:53 GMT 1999 CHIP Bias

Fri Sep 17 19:01:33 GMT 1999 PICS polarization\_calibration

Fri Sep 17 19:01:52 GMT 1999 CHIP End Bias

Fri Sep 17 19:02:06 GMT 1999 CHIP Water

Fri Sep 17 19:02:53 GMT 1999 CHIP End Water

COMMENT: Fri Sep 17 19:05:19 GMT 1999

Stopping to reconfigure dome shutter.

Fri Sep 17 19:06:35 GMT 1999 CHIP CHIP End Patrol

\*\*\*\* EVENT COMMENT \*\*\*\*: Fri Sep 17 19:07:42 GMT 1999

CHIP animation reveals an active filament on the disc, near equator, on eastern hemisphere between 1700-1900 UT.

Fri Sep 17 19:11:11 GMT 1999 PICS End Patrol

Fri Sep 17 19:17:50 GMT 1999 MKIV Start Patrol

\*\*MKIV PROBLEM\*\*: Fri Sep 17 19:18:03 GMT 1999

Inspected mangin mirror during shutter reconfiguration (need to have barrel stopped). Inserted mangin periscope in hole in 1/2-wave plate motor trough. Mangin has a thin film of dust or looks pitted, but the "haze" is pretty uniform. There are a few large blemishes or particles here and there but they did not seem to be where I could see the image of the slits, nor near the central area. My contention was that the hi/lo--early/late anomaly seen by David might be due to a dust gradient on the mangin that increased the scattered light to the inner corona as the spar flexure decreased later in the morning, i.e. looking for more dust collected at the center of the mirror. Mangin could use a wash at some point but reinstalling it can cause misalignment if the assembly is not mounted square onto the casting. This is not as easy to do as it might seem. Before completing dome shutter reconfiguration, I removed the periscope and re-taped the hole.

Fri Sep 17 19:45:40 GMT 1999 MKIV End Patrol

MKIV COMMENT: Fri Sep 17 19:45:45 GMT 1999

Stopping to see how much detail can be seen via the slit periscope.

\*\*MKIV PROBLEM\*\*: Fri Sep 17 19:51:36 GMT 1999

Took a look at the image of the slots on the slits thru the periscope.

The detail is quite good. From what I can determine, the image of the

slots at the bottom end is quite wide compared to the width of the

slits and at this time, fairly well centered. It would take a lot of

flexure to move the slot image off the slits. I will need to recheck this

another day when I can start early on and recheck later in the morning.

Fri Sep 17 20:00:47 GMT 1999 MKIV Start Patrol

Fri Sep 17 20:00:47 GMT 1999 CHIP Gain

Fri Sep 17 20:05:24 GMT 1999 CHIP End Gain

Fri Sep 17 20:05:38 GMT 1999 CHIP Bias

Fri Sep 17 20:06:30 GMT 1999 CHIP End Bias

Fri Sep 17 20:06:39 GMT 1999 CHIP Water

Fri Sep 17 20:07:14 GMT 1999 CHIP End Water

\*\*MKIV PROBLEM\*\*: Fri Sep 17 20:25:20 GMT 1999

Decision was made NOT to deal with cleaning the mangin at this time.

\*\*\*\* EVENT COMMENT \*\*\*\*: Fri Sep 17 20:33:16 GMT 1999

Central filament on CHIP still changing with the inclusion of the 2000 UT image to animation.

Fri Sep 17 21:01:47 GMT 1999 CHIP Bias

Fri Sep 17 21:02:39 GMT 1999 CHIP End Bias

Fri Sep 17 21:02:49 GMT 1999 CHIP Water

Fri Sep 17 21:03:28 GMT 1999 CHIP End Water

Fri Sep 17 22:00:47 GMT 1999 CHIP Bias

Fri Sep 17 22:01:40 GMT 1999 CHIP End Bias

Fri Sep 17 22:01:50 GMT 1999 CHIP Water

Fri Sep 17 22:02:28 GMT 1999 CHIP End Water

Fri Sep 17 22:05:30 GMT 1999 PICS End Patrol

Fri Sep 17 22:05:30 GMT 1999 PICS End Patrol

Fri Sep 17 22:06:07 GMT 1999 CHIP ending tape

Fri Sep 17 22:06:23 GMT 1999 MKIV End Patrol

COMMENT: Fri Sep 17 22:07:00 GMT 1999

TAPES:

MKIV: 99-260

PICS: P01549

CHIP: C00924

LOWL: L00628

Fri Sep 17 22:09:58 GMT 1999

MkIII

16_43.rawmk3	17_50.rawmk3	19_01.rawmk3	20_21.rawmk3	21_21.rawmk3
16_47.rawmk3	17_53.rawmk3	19_04.rawmk3	20_25.rawmk3	21_24.rawmk3
16_50.rawmk3	17_57.rawmk3	19_07.rawmk3	20_28.rawmk3	21_28.rawmk3
16_54.rawmk3	18_00.rawmk3	19_17.rawmk3	20_32.rawmk3	21_31.rawmk3
17_04.rawmk3	18_04.rawmk3	19_21.rawmk3	20_35.rawmk3	21_34.rawmk3
17_08.rawmk3	18_11.rawmk3	19_24.rawmk3	20_39.rawmk3	21_38.rawmk3
17_12.rawmk3	18_18.rawmk3	19_28.rawmk3	20_42.rawmk3	21_41.rawmk3
17_15.rawmk3	18_25.rawmk3	19_31.rawmk3	20_46.rawmk3	21_45.rawmk3
17_19.rawmk3	18_29.rawmk3	19_35.rawmk3	20_49.rawmk3	21_48.rawmk3
17_22.rawmk3	18_33.rawmk3	19_38.rawmk3	20_53.rawmk3	21_52.rawmk3
17_25.rawmk3	18_36.rawmk3	19_42.rawmk3	20_56.rawmk3	21_55.rawmk3
17_29.rawmk3	18_40.rawmk3	20_00.rawmk3	21_00.rawmk3	21_59.rawmk3
17_32.rawmk3	18_43.rawmk3	20_04.rawmk3	21_03.rawmk3	22_02.rawmk3
17_36.rawmk3	18_47.rawmk3	20_07.rawmk3	21_07.rawmk3	c18_07.rawmk3
17_39.rawmk3	18_50.rawmk3	20_11.rawmk3	21_10.rawmk3	c18_15.rawmk3
17_43.rawmk3	18_54.rawmk3	20_14.rawmk3	21_14.rawmk3	c18_22.rawmk3
17_46.rawmk3	18_57.rawmk3	20_18.rawmk3	21_17.rawmk3	