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Mauna Loa Solar Observatory Observer's Log  
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Mon Oct 29 16:42:52 GMT 2001

Year: 01 Doy: 302

Observer: yasukawa

WEATHER COMMENT: Mon Oct 29 16:43:27 GMT 2001

Cool, in moderate cirrostratus, brisk southeast wind.

Mon Oct 29 16:51:53 GMT 2001 CHIP Start Patrol

Mon Oct 29 16:52:15 GMT 2001 PICS Start Patrol

Mon Oct 29 17:00:05 GMT 2001 CHIP LSD

Mon Oct 29 17:02:16 GMT 2001 CHIP End LSD

Mon Oct 29 17:02:23 GMT 2001 CHIP BiasLSD

PSPT COMMENT: Mon Oct 29 17:02:16 GMT 2001

Starting PSPT observations in thin to moderate cirrostratus overcast.

Mon Oct 29 17:03:07 GMT 2001 CHIP End BiasLSD

Mon Oct 29 17:03:13 GMT 2001 CHIP Bias

Mon Oct 29 17:04:05 GMT 2001 CHIP End Bias

Mon Oct 29 17:15:19 GMT 2001 MKIV Start Patrol

WEATHER COMMENT: Mon Oct 29 17:15:23 GMT 2001

Cirrostratus thinned to gone.

Starting mk4.

Mon Oct 29 17:56:53 GMT 2001 MKIV End Patrol

Mon Oct 29 17:57:05 GMT 2001 MKIV Start Cal

Mon Oct 29 18:03:00 GMT 2001 CHIP LSD

Mon Oct 29 18:04:28 GMT 2001 PICS Flat

Mon Oct 29 18:05:16 GMT 2001 CHIP End LSD

Mon Oct 29 18:05:27 GMT 2001 CHIP BiasLSD

Mon Oct 29 18:06:11 GMT 2001 CHIP End BiasLSD

Mon Oct 29 18:06:22 GMT 2001 CHIP Bias

Mon Oct 29 18:07:16 GMT 2001 CHIP End Bias

Mon Oct 29 18:07:39 GMT 2001 PICS End Flat

Mon Oct 29 18:16:00 GMT 2001 MKIV End Cal

Mon Oct 29 18:16:15 GMT 2001 MKIV Start Patrol

Mon Oct 29 19:02:59 GMT 2001 CHIP LSD

Mon Oct 29 19:05:12 GMT 2001 CHIP End LSD

Mon Oct 29 19:05:25 GMT 2001 CHIP BiasLSD

Mon Oct 29 19:06:10 GMT 2001 CHIP End BiasLSD

Mon Oct 29 19:06:25 GMT 2001 CHIP Bias

Mon Oct 29 19:07:21 GMT 2001 CHIP End Bias

Mon Oct 29 19:08:53 GMT 2001 PICS End Patrol

PICS COMMENT: Mon Oct 29 19:08:56 GMT 2001

Stopping PICS to work on locating and removing the heat rejection filter.

Spar may get jostled around while removing insulation and covers.

Mon Oct 29 20:03:03 GMT 2001 CHIP LSD

Mon Oct 29 20:04:19 GMT 2001 PICS Start Patrol

Mon Oct 29 20:05:22 GMT 2001 CHIP End LSD

Mon Oct 29 20:05:37 GMT 2001 CHIP BiasLSD

Mon Oct 29 20:06:26 GMT 2001 CHIP End BiasLSD  
Mon Oct 29 20:06:43 GMT 2001 CHIP Bias  
Mon Oct 29 20:07:40 GMT 2001 CHIP End Bias

PICS COMMENT: Mon Oct 29 20:04:05 GMT 2001

There were two Andover filters in the beam, taped together, and mounted at an angle to the beam at the front of the main optics box. The rear element is documented so it was assumed that it is the bandpass filter and the more orange-red, less dense element, taped forward of it, is the heat rejection element we added. I removed the forward element and reinstalled the bandpass filter. Now disk image looks saturated at the brightest features but initially, David does not see a second limb on the limb images, an anomaly that the HR filter was added to eliminate.

I will stop the Patrol and iterate on exposure times to get rid of the saturation.

\*\*\*\* EVENT COMMENT \*\*\*\*: Mon Oct 29 20:22:50 GMT 2001

Coronal rain occurring on both east and west limbs all morning.

Mon Oct 29 20:23:27 GMT 2001 PICS End Patrol  
Mon Oct 29 20:25:30 GMT 2001 PICS Start Patrol  
Mon Oct 29 20:26:53 GMT 2001 PICS End Patrol  
Mon Oct 29 20:28:35 GMT 2001 PICS Start Patrol  
Mon Oct 29 20:29:58 GMT 2001 PICS End Patrol  
Mon Oct 29 20:31:27 GMT 2001 PICS Start Patrol  
Mon Oct 29 20:32:45 GMT 2001 PICS End Patrol  
Mon Oct 29 20:34:04 GMT 2001 PICS Start Patrol

PICS COMMENT: Mon Oct 29 20:39:44 GMT 2001

Changed disk exposure from 13 to 6 in /Bin/ProgramDefs.

This got rid of saturation in the brightest disk feature.

\*\*\*\* EVENT COMMENT \*\*\*\*: Mon Oct 29 20:57:31 GMT 2001

That bright active region on the disk, located in northeast quadrant, has been quite active all morning.

Mon Oct 29 21:00:04 GMT 2001 CHIP LSD  
Mon Oct 29 21:02:24 GMT 2001 CHIP End LSD  
Mon Oct 29 21:02:44 GMT 2001 CHIP BiasLSD  
Mon Oct 29 21:03:33 GMT 2001 CHIP End BiasLSD  
Mon Oct 29 21:03:42 GMT 2001 CHIP Bias  
Mon Oct 29 21:04:25 GMT 2001 CHIP End Bias

PICS COMMENT: Mon Oct 29 21:15:46 GMT 2001

David agrees that the exposure is good but the seeing is terrible.

We agreed to run this way the rest of the day and take a second look tomorrow when the seeing is better. I will put the insulation back on PICS, with minimal screws, for now. I will most likely jostle the spar around doing this.

MKIV COMMENT: Mon Oct 29 22:01:36 GMT 2001

Shipping the old opal back to Boulder via Fedex for testing.

Mon Oct 29 22:03:12 GMT 2001 CHIP LSD  
Mon Oct 29 22:05:35 GMT 2001 CHIP End LSD  
Mon Oct 29 22:05:44 GMT 2001 CHIP BiasLSD  
Mon Oct 29 22:06:18 GMT 2001 MKIV End Patrol

Mon Oct 29 22:06:27 GMT 2001	CHIP	End BiasLSD
Mon Oct 29 22:06:40 GMT 2001	CHIP	Bias
Mon Oct 29 22:07:30 GMT 2001	CHIP	End Bias
Mon Oct 29 22:08:32 GMT 2001	PICS	End Patrol
Mon Oct 29 22:09:52 GMT 2001	CHIP	End Patrol
Mon Oct 29 22:10:22 GMT 2001		

MkIV

17_15.rawmk4	18_25.rawmk4	19_23.rawmk4	20_22.rawmk4	21_21.rawmk4
17_18.rawmk4	18_28.rawmk4	19_26.rawmk4	20_25.rawmk4	21_24.rawmk4
17_21.rawmk4	18_31.rawmk4	19_29.rawmk4	20_28.rawmk4	21_27.rawmk4
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17_38.rawmk4	18_48.rawmk4	19_47.rawmk4	20_46.rawmk4	21_45.rawmk4
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17_44.rawmk4	18_54.rawmk4	19_53.rawmk4	20_52.rawmk4	21_51.rawmk4
17_47.rawmk4	18_57.rawmk4	19_56.rawmk4	20_55.rawmk4	21_54.rawmk4
17_50.rawmk4	19_00.rawmk4	19_59.rawmk4	20_58.rawmk4	21_57.rawmk4
17_53.rawmk4	19_03.rawmk4	20_02.rawmk4	21_01.rawmk4	22_00.rawmk4
18_00.rawmk4	19_06.rawmk4	20_05.rawmk4	21_04.rawmk4	22_03.rawmk4
18_06.rawmk4	19_09.rawmk4	20_08.rawmk4	21_07.rawmk4	c17_57.rawmk4
18_12.rawmk4	19_12.rawmk4	20_11.rawmk4	21_10.rawmk4	c18_03.rawmk4
18_16.rawmk4	19_15.rawmk4	20_14.rawmk4	21_13.rawmk4	c18_09.rawmk4
18_19.rawmk4	19_18.rawmk4	20_16.rawmk4	21_15.rawmk4	
18_22.rawmk4	19_21.rawmk4	20_19.rawmk4	21_18.rawmk4	