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Mauna Loa Solar Observatory Observer's Log  
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Fri Jul 24 16:21:36 GMT 1998

Year: 98 Doy: 205

Observer: yasukawa

WEATHER COMMENT: Fri Jul 24 16:24:15 GMT 1998

Cool, clear, light southeast wind. Heavy haze thru saddle.

Fri Jul 24 16:25:06 GMT 1998 CHIP Startup--Initializing new tape

Fri Jul 24 16:33:04 GMT 1998 CHIP CHIP Start Patrol

\*\*MKIII PROBLEM\*\*: Fri Jul 24 16:33:25 GMT 1998

Looked down tube between O1 and occulter. Did not see any obstructions to cause 'smudge' signature. O1 did not have any discernable smudges on it. Looked up toward sun thru hatch behind O1 and found that O1 is quite dusty. Dust is relatively uniform, but may be causing some of that polarization that was speculated to be from the central american haze, but did not change as spar position relative to horizon changed.

I will try rotating O1 later on this morning to see if that changes the smudge signature orientation.

Fri Jul 24 16:38:32 GMT 1998 MKIII Start Patrol

Fri Jul 24 17:00:49 GMT 1998 CHIP Bias

Fri Jul 24 17:01:44 GMT 1998 PICS Flat

Fri Jul 24 17:01:44 GMT 1998 PICS Flat

Fri Jul 24 17:01:53 GMT 1998 CHIP Water

Fri Jul 24 17:02:33 GMT 1998 CHIP End Water

Fri Jul 24 17:03:15 GMT 1998 PICS End Flat

\*\*MKIII PROBLEM\*\*: Fri Jul 24 17:43:06 GMT 1998

I was leaning on spar trying to connect O1 rotator connector.

Realized that that circuit is no longer available. Leaned on spar while removing connector.

\*\*CHIP PROBLEM\*\*: Fri Jul 24 17:52:50 GMT 1998

CHIP lost its center reference during that spar bashing. Stopping and attempting to center image manually.

Fri Jul 24 17:55:20 GMT 1998 CHIP CHIP End Patrol

Fri Jul 24 17:57:44 GMT 1998 CHIP CHIP Start Patrol

Fri Jul 24 18:01:37 GMT 1998 PICS Flat

Fri Jul 24 18:01:59 GMT 1998 CHIP Bias

Fri Jul 24 18:03:07 GMT 1998 CHIP End Bias

Fri Jul 24 18:03:07 GMT 1998 CHIP End Bias

Fri Jul 24 18:03:20 GMT 1998 CHIP Water

Fri Jul 24 18:04:03 GMT 1998 CHIP End Water

\*\*MKIII PROBLEM\*\*: Fri Jul 24 18:24:30 GMT 1998

Stopping again to attempt to rotate O1.

COMMENT: Fri Jul 24 18:32:00 GMT 1998

Stopping CHIP and PICS. I am moving spar around too much.

Fri Jul 24 18:34:15 GMT 1998 CHIP CHIP End Patrol

Fri Jul 24 18:50:15 GMT 1998 MKIII Start Patrol

Fri Jul 24 18:50:50 GMT 1998 PICS Start Patrol

**\*\*MKIII PROBLEM\*\***: Fri Jul 24 18:52:26 GMT 1998

I could not rotate O1 manually. Gearing for stepper makes rotating nearly impossible. Cannot remove O1 and mount in rotated position due to locator pin. I did an in-situ washdown of the O1 in lieu of rotating it. Used Ethyl alcohol and 'lint-less' wipers. It'll probably need a good cleaning--Darryl-style, but the cleaning should improve imaging and if nothing else, change the smudge signature if the dirty O1 is the cause.

**\*\*\*\* EVENT COMMENT \*\*\*\***: Fri Jul 24 18:59:02 GMT 1998

David reported CME in SSW early this morning from around 1700-1800 UT.

Fri Jul 24 19:00:46 GMT 1998	PICS	Flat
Fri Jul 24 19:01:56 GMT 1998	CHIP	Bias
Fri Jul 24 19:02:15 GMT 1998	PICS	End Flat
Fri Jul 24 19:02:56 GMT 1998	CHIP	End Bias
Fri Jul 24 19:03:06 GMT 1998	CHIP	Water
Fri Jul 24 19:03:49 GMT 1998	CHIP	End Water
Fri Jul 24 19:24:36 GMT 1998	PICS	End Patrol
Fri Jul 24 19:25:29 GMT 1998	CHIP	CHIP End Patrol
Fri Jul 24 19:32:21 GMT 1998	MKIII	Start Patrol

COMMENT: Fri Jul 24 19:32:43 GMT 1998

Stopped to reconfigure dome shutter.

art Patrol

Fri Jul 24 19:32:45 GMT 1998	PICS	Start Patrol
Fri Jul 24 20:00:45 GMT 1998	PICS	Flat
Fri Jul 24 20:02:12 GMT 1998	PICS	End Flat
Fri Jul 24 20:02:52 GMT 1998	CHIP	Gain
Fri Jul 24 20:07:27 GMT 1998	CHIP	End Gain
Fri Jul 24 20:07:42 GMT 1998	CHIP	Bias
Fri Jul 24 20:08:35 GMT 1998	CHIP	End Bias
Fri Jul 24 20:08:44 GMT 1998	CHIP	Water
Fri Jul 24 20:09:20 GMT 1998	CHIP	End Water

COMMENT: Fri Jul 24 20:40:00 GMT 1998

Hydraulic lift was dead this morning after overnight charge.

Checked battery and it was showing 12V. After more checking, I found that the positive terminal connection was loose and oxidized. Removed connector and cleaned and sanded surfaces then reattached. Lift worked. Checked and filled battery cells with distilled water. I will put the charger back on overnight to fully charge the battery in case it didn't get charged efficiently due to the loose cable.

**\*\*MKIII PROBLEM\*\***: Fri Jul 24 20:45:33 GMT 1998

Alice indicated that the cleaning improved the image, smudge case closed for now. Good work Darryl, Alice and David!

WEATHER COMMENT: Fri Jul 24 20:48:42 GMT 1998

Orographic clouds scattered about station.

Fri Jul 24 21:00:40 GMT 1998	PICS	Flat
Fri Jul 24 21:00:49 GMT 1998	CHIP	Bias

Fri Jul 24 21:01:51 GMT 1998 CHIP End Bias  
 Fri Jul 24 21:02:01 GMT 1998 CHIP Water  
 Fri Jul 24 21:02:12 GMT 1998 PICS End Flat  
 Fri Jul 24 21:02:44 GMT 1998 CHIP End Water  
 Fri Jul 24 22:00:36 GMT 1998 PICS Flat  
 Fri Jul 24 22:02:02 GMT 1998 PICS End Flat  
 WEATHER COMMENT: Fri Jul 24 22:03:13 GMT 1998  
 In heavy orographic clouds.  
 Fri Jul 24 22:03:17 GMT 1998 CHIP Bias  
 Fri Jul 24 22:04:21 GMT 1998 CHIP End Bias  
 Fri Jul 24 22:04:35 GMT 1998 CHIP Water  
 Fri Jul 24 22:05:04 GMT 1998 PICS End Patrol  
 Fri Jul 24 22:05:24 GMT 1998 CHIP End Water  
 COMMENT: Fri Jul 24 22:06:12 GMT 1998  
 Tapes:  
 CHIP: C00646  
 PICS: P01251  
 LOWL: L00534  
 Fri Jul 24 22:08:44 GMT 1998 CHIP CHIP End Patrol  
 Fri Jul 24 22:09:14 GMT 1998 CHIP ending tape  
 Fri Jul 24 22:10:04 GMT 1998

MkIII

16_38.rawmk3	17_37.rawmk3	19_10.rawmk3	20_16.rawmk3	21_14.rawmk3
16_41.rawmk3	17_40.rawmk3	19_13.rawmk3	20_19.rawmk3	21_17.rawmk3
16_44.rawmk3	17_43.rawmk3	19_16.rawmk3	20_22.rawmk3	21_20.rawmk3
16_47.rawmk3	17_45.rawmk3	19_19.rawmk3	20_25.rawmk3	21_23.rawmk3
16_50.rawmk3	17_48.rawmk3	19_22.rawmk3	20_27.rawmk3	21_26.rawmk3
16_53.rawmk3	17_51.rawmk3	19_32.rawmk3	20_30.rawmk3	21_29.rawmk3
16_56.rawmk3	17_54.rawmk3	19_35.rawmk3	20_33.rawmk3	21_32.rawmk3
16_59.rawmk3	17_57.rawmk3	19_38.rawmk3	20_36.rawmk3	21_35.rawmk3
17_02.rawmk3	18_00.rawmk3	19_41.rawmk3	20_39.rawmk3	21_38.rawmk3
17_05.rawmk3	18_03.rawmk3	19_44.rawmk3	20_42.rawmk3	21_41.rawmk3
17_07.rawmk3	18_09.rawmk3	19_47.rawmk3	20_45.rawmk3	21_43.rawmk3
17_10.rawmk3	18_15.rawmk3	19_49.rawmk3	20_48.rawmk3	21_46.rawmk3
17_13.rawmk3	18_21.rawmk3	19_52.rawmk3	20_51.rawmk3	21_49.rawmk3
17_16.rawmk3	18_50.rawmk3	19_55.rawmk3	20_54.rawmk3	21_52.rawmk3
17_19.rawmk3	18_53.rawmk3	19_58.rawmk3	20_57.rawmk3	21_55.rawmk3
17_22.rawmk3	18_56.rawmk3	20_01.rawmk3	21_00.rawmk3	21_58.rawmk3
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17_28.rawmk3	19_02.rawmk3	20_07.rawmk3	21_05.rawmk3	c18_06.rawmk3
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17_34.rawmk3	19_07.rawmk3	20_13.rawmk3	21_11.rawmk3	c18_18.rawmk3