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Mauna Loa Solar Observatory Observer's Log  
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Fri Dec 28 17:24:35 GMT 2001

Year: 01 Doy: 362

Observer: yasukawa

WEATHER COMMENT: Fri Dec 28 17:24:57 GMT 2001

Cool, in patch of scattered thin cirrus, south wind.

Fri Dec 28 17:37:21 GMT 2001 CHIP Start Patrol

Fri Dec 28 17:38:25 GMT 2001 MKIV Start Patrol

\*\*PICS PROBLEM\*\*: Fri Dec 28 17:40:28 GMT 2001

David's assessment of the PICS problem is camera shutter failure. Testing yesterday using video mode confirms his assessment. Pattern on image was alternating between top and bottom, limb images use two exposures, one being wrong at the beginning and the other being wrong at the end of the exposure, in video mode I saw an odd/even variation in how the images were messed up. Camera will have to go back to Redlake MASD (formerly Kodak MASD) for repair.

PSPT COMMENT: Fri Dec 28 17:56:40 GMT 2001

Started observing.

Fri Dec 28 18:03:02 GMT 2001 CHIP LSD

Fri Dec 28 18:05:22 GMT 2001 CHIP End LSD

Fri Dec 28 18:05:36 GMT 2001 CHIP BiasLSD

Fri Dec 28 18:06:23 GMT 2001 CHIP End BiasLSD

Fri Dec 28 18:06:39 GMT 2001 CHIP Bias

Fri Dec 28 18:07:27 GMT 2001 CHIP End Bias

\*\*PSPT PROBLEM\*\*: Fri Dec 28 18:35:05 GMT 2001

PSPT stalled at 18:28 UT after centering solar image on CCD. Error message on IDL: Execution halted at: STR\_TIME

5 str\_time.pro

Killed runPspt.pro and restarted.

Fri Dec 28 19:03:01 GMT 2001 CHIP LSD

Fri Dec 28 19:05:15 GMT 2001 CHIP End LSD

Fri Dec 28 19:05:29 GMT 2001 CHIP BiasLSD

Fri Dec 28 19:06:15 GMT 2001 CHIP End BiasLSD

Fri Dec 28 19:06:23 GMT 2001 CHIP Bias

Fri Dec 28 19:07:06 GMT 2001 CHIP End Bias

\*\*PSPT PROBLEM\*\*: Fri Dec 28 19:27:25 GMT 2001

PSPT stalled again at 19:21 UT, same problem and resolution as above.

Fri Dec 28 19:30:42 GMT 2001 MKIV End Patrol

Fri Dec 28 19:30:57 GMT 2001 MKIV Start Cal

Fri Dec 28 19:49:46 GMT 2001 MKIV End Cal

Fri Dec 28 19:49:56 GMT 2001 MKIV Start Patrol

Fri Dec 28 20:02:53 GMT 2001 CHIP LSD

\*\*\*\* EVENT COMMENT \*\*\*\*: Fri Dec 28 20:03:36 GMT 2001

CME starting at 1946 UT between PA 90-140.

Fri Dec 28 20:05:13 GMT 2001 CHIP End LSD

Fri Dec 28 20:05:27 GMT 2001 CHIP BiasLSD

Fri Dec 28 20:06:20 GMT 2001 CHIP End BiasLSD  
Fri Dec 28 20:06:33 GMT 2001 CHIP Bias  
Fri Dec 28 20:07:20 GMT 2001 CHIP End Bias  
\*\*\*\* EVENT COMMENT \*\*\*\*: Fri Dec 28 20:25:43 GMT 2001  
WOW, CME is a spectacular one!  
\*\*PSPT PROBLEM\*\*: Fri Dec 28 20:32:55 GMT 2001  
PSPT stalled again at 20:20 UT, this time trying to take red image  
(Hi Res Data). Kill/restart  
\*\*GONG PROBLEM\*\*: Fri Dec 28 20:34:16 GMT 2001  
GONG crash team arrived on mountain to troubleshoot and repair the  
instrument's waveplate rotator problem.  
Fri Dec 28 21:00:03 GMT 2001 CHIP LSD  
Fri Dec 28 21:02:17 GMT 2001 CHIP End LSD  
Fri Dec 28 21:02:30 GMT 2001 CHIP BiasLSD  
Fri Dec 28 21:03:17 GMT 2001 CHIP End BiasLSD  
Fri Dec 28 21:03:25 GMT 2001 CHIP Bias  
Fri Dec 28 21:04:10 GMT 2001 CHIP End Bias  
\*\*PSPT PROBLEM\*\*: Fri Dec 28 21:35:58 GMT 2001  
PSPT stalled again at 21:17 UT, after centering. This time, IDL message  
was: Execution halted at: RTIME  
5 rtime.pro

Killed runPspt.pro and restarted.

\*\*MKIV PROBLEM\*\*: Fri Dec 28 21:52:39 GMT 2001  
Investigated barrel angle acquisition system further and diagrammed it.  
Sent email to Darryl and to Boulder detailing the interconnections and  
possible solutions. One solution would be to replace the power supply with  
a larger (higher current) unit. Other would be to disconnect the subsystem  
that supplies the OCP Barrel module display. One factor is the OCP display  
shows constant angle readouts whereas the KCC gui displays intervals of  
2-3 degree changes due to processing time requirements. The OCP provides  
better resolution when one needs to stop the barrel at some specific  
angle.

Fri Dec 28 22:00:04 GMT 2001 CHIP LSD  
PSPT COMMENT: Fri Dec 28 19:27:16 GMT 2001  
PSPT COMMENT: Fri Dec 28 22:01:42 GMT 2001  
Ended observation.  
Fri Dec 28 22:02:26 GMT 2001 CHIP End LSD  
Fri Dec 28 22:02:41 GMT 2001 CHIP BiasLSD  
Fri Dec 28 22:03:35 GMT 2001 CHIP End BiasLSD  
Fri Dec 28 22:03:50 GMT 2001 CHIP Bias  
Fri Dec 28 22:04:39 GMT 2001 CHIP End Bias  
Fri Dec 28 22:05:47 GMT 2001 MKIV End Patrol  
Fri Dec 28 22:07:00 GMT 2001 CHIP End Patrol  
Fri Dec 28 22:08:44 GMT 2001  
MkIV

17\_38.rawmk4 18\_31.rawmk4 19\_24.rawmk4 20\_28.rawmk4 21\_21.rawmk4

17_41.rawmk4	18_34.rawmk4	19_27.rawmk4	20_31.rawmk4	21_24.rawmk4
17_44.rawmk4	18_37.rawmk4	19_34.rawmk4	20_34.rawmk4	21_27.rawmk4
17_47.rawmk4	18_40.rawmk4	19_40.rawmk4	20_37.rawmk4	21_30.rawmk4
17_50.rawmk4	18_43.rawmk4	19_46.rawmk4	20_40.rawmk4	21_33.rawmk4
17_53.rawmk4	18_46.rawmk4	19_49.rawmk4	20_42.rawmk4	21_36.rawmk4
17_56.rawmk4	18_49.rawmk4	19_52.rawmk4	20_45.rawmk4	21_39.rawmk4
17_59.rawmk4	18_52.rawmk4	19_55.rawmk4	20_48.rawmk4	21_41.rawmk4
18_02.rawmk4	18_55.rawmk4	19_58.rawmk4	20_51.rawmk4	21_44.rawmk4
18_05.rawmk4	18_58.rawmk4	20_01.rawmk4	20_54.rawmk4	21_47.rawmk4
18_07.rawmk4	19_00.rawmk4	20_04.rawmk4	20_57.rawmk4	21_50.rawmk4
18_10.rawmk4	19_03.rawmk4	20_07.rawmk4	21_00.rawmk4	21_53.rawmk4
18_13.rawmk4	19_06.rawmk4	20_10.rawmk4	21_03.rawmk4	21_56.rawmk4
18_16.rawmk4	19_09.rawmk4	20_13.rawmk4	21_06.rawmk4	21_59.rawmk4
18_19.rawmk4	19_12.rawmk4	20_16.rawmk4	21_09.rawmk4	22_02.rawmk4
18_22.rawmk4	19_15.rawmk4	20_19.rawmk4	21_12.rawmk4	c19_30.rawmk4
18_25.rawmk4	19_18.rawmk4	20_22.rawmk4	21_15.rawmk4	c19_37.rawmk4
18_28.rawmk4	19_21.rawmk4	20_25.rawmk4	21_18.rawmk4	c19_43.rawmk4