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Mauna Loa Solar Observatory Observer's Log  
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Sun Dec 21 16:47:44 GMT 1997

Year: 97 Doy: 355

Observer: koon

Sun Dec 21 16:48:20 GMT 1997 CHIP Startup--Initializing new tape

WEATHER COMMENT: Sun Dec 21 16:53:50 GMT 1997

Clear sky, no wind, temp=38 F.

Sun Dec 21 17:13:42 GMT 1997 MKIII Start Patrol

Sun Dec 21 17:13:37 GMT 1997 CHIP CHIP Start Patrol

PICS COMMENT: Sun Dec 21 17:17:44 GMT 1997

Stalled with Program:init, did a Kill/Run to restart.

Sun Dec 21 17:20:35 GMT 1997 PICS Start Patrol

Sun Dec 21 18:01:09 GMT 1997 PICS Flat

Sun Dec 21 18:02:05 GMT 1997 CHIP Bias

Sun Dec 21 18:02:46 GMT 1997 PICS End Flat

Sun Dec 21 18:03:03 GMT 1997 CHIP End Bias

Sun Dec 21 18:03:12 GMT 1997 CHIP Water

Sun Dec 21 18:03:55 GMT 1997 CHIP End Water

PSPT COMMENT: Sun Dec 21 18:32:06 GMT 1997

Program stalled, will send e-mail to Haosheng.

Sun Dec 21 18:40:16 GMT 1997 PICS End Patrol

Sun Dec 21 18:52:30 GMT 1997 PICS Start Patrol

PICS COMMENT: Sun Dec 21 18:54:38 GMT 1997

The disk images and PICS images looked weird, like too much light was getting in. I traced it to what I believe is the Heat Rejection filter on the filter wheel, maybe it came loose or something. Stopped instrument, I'll have to take things apart again to check it out, don't know where the wheel is since we didn't get much PICS documentation. Will work on it if I get a chance.

PSPT COMMENT: Sun Dec 21 19:43:01 GMT 1997

OK, this is now fixed and running again.

PSPT COMMENT: Sun Dec 21 19:50:42 GMT 1997

Stalled again with a new set of errors.

Sun Dec 21 20:02:02 GMT 1997 CHIP Gain

Sun Dec 21 20:07:59 GMT 1997 CHIP End Gain

Sun Dec 21 20:08:09 GMT 1997 CHIP Bias

Sun Dec 21 20:09:03 GMT 1997 CHIP End Bias

Sun Dec 21 20:09:13 GMT 1997 CHIP Water

Sun Dec 21 20:09:53 GMT 1997 CHIP End Water

PSPT COMMENT: Sun Dec 21 20:48:08 GMT 1997

OK, it is working well again, I think that was all the fixing it will need.

MKIII COMMENT: Sun Dec 21 20:55:50 GMT 1997

Stopping to work on PICS.

CHIP COMMENT: Sun Dec 21 20:56:07 GMT 1997

Stopping to work on PICS.

PICS COMMENT: Sun Dec 21 20:56:21 GMT 1997

Stopped other instruments, will open up PICS instrument to check out filter wheel and polarizer wheel problems.

Sun Dec 21 20:58:34 GMT 1997 CHIP CHIP End Patrol

PICS COMMENT: Sun Dec 21 21:49:44 GMT 1997

OK, I R+R the Polarizer Geneva Wheel Actuator Motor and Cam Assembly, the cam was loose on the end of the motor shaft after the clutch. I reassembled using some retaining compound on the setscrew and made sure it made good contact with the shaft flat. I also made sure the cam engaged the Geneva Wheel correctly and the location limit switch as well. It will need several days to dry before testing with motor, to be safe. The filter wheel problem isn't obvious, the wheel is turning and the filters are securely attached, will investigate more.

PICS COMMENT: Sun Dec 21 22:14:07 GMT 1997

According to the displays, the Heat Rejection filter goes into the light path during the disk images. But when I try that manually it looks as though the images are overexposed. I looked ahead of the filter wheel and see what looks like metal tape and foam pieces around the light entry into the instrument after the periscope. Maybe another prefilter was there but fell out? I couldn't see anything in the instrument. Will keep looking.

PICS COMMENT: Sun Dec 21 22:23:11 GMT 1997

OK, mystery solved, I took apart the rest of the instrument enclosure and found a loose glass filter at the far back end. Will secure it in place at the front and close up the instrument. I tried Patrol again and the images look good. Problems are solved.

Sun Dec 21 22:28:02 GMT 1997 PICS End Patrol

Sun Dec 21 22:51:53 GMT 1997 CHIP ending tape

COMMENT: Sun Dec 21 23:28:41 GMT 1997

TAPES:

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MKIII: H01707

PICS: P01068

CHIP: C00454

LOWL: L00488

Sun Dec 21 23:29:53 GMT 1997

MkIII

17_13.rawmk3	17_57.rawmk3	18_59.rawmk3	19_43.rawmk3	20_27.rawmk3
17_16.rawmk3	18_00.rawmk3	19_02.rawmk3	19_46.rawmk3	20_29.rawmk3
17_19.rawmk3	18_03.rawmk3	19_05.rawmk3	19_49.rawmk3	20_32.rawmk3
17_22.rawmk3	18_06.rawmk3	19_08.rawmk3	19_51.rawmk3	20_35.rawmk3
17_25.rawmk3	18_09.rawmk3	19_11.rawmk3	19_54.rawmk3	20_38.rawmk3
17_28.rawmk3	18_12.rawmk3	19_14.rawmk3	19_57.rawmk3	20_41.rawmk3
17_31.rawmk3	18_15.rawmk3	19_16.rawmk3	20_00.rawmk3	20_44.rawmk3
17_34.rawmk3	18_18.rawmk3	19_19.rawmk3	20_03.rawmk3	20_47.rawmk3
17_37.rawmk3	18_21.rawmk3	19_22.rawmk3	20_06.rawmk3	20_50.rawmk3
17_40.rawmk3	18_24.rawmk3	19_25.rawmk3	20_09.rawmk3	20_53.rawmk3

17_43.rawmk3	18_27.rawmk3	19_28.rawmk3	20_12.rawmk3	20_56.rawmk3
17_46.rawmk3	18_33.rawmk3	19_31.rawmk3	20_15.rawmk3	c18_30.rawmk3
17_49.rawmk3	18_39.rawmk3	19_34.rawmk3	20_18.rawmk3	c18_36.rawmk3
17_52.rawmk3	18_45.rawmk3	19_37.rawmk3	20_21.rawmk3	c18_42.rawmk3
17_54.rawmk3	18_56.rawmk3	19_40.rawmk3	20_24.rawmk3	