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Mauna Loa Solar Observatory Observer's Log  
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Sat Jul 17 16:20:10 GMT 2004

Year: 04 Doy: 199

Observer: stueben

WEATHER COMMENT: Sat Jul 17 16:28:41 GMT 2004

Clear, wind south 15-20 mph, temp 41F.

Sat Jul 17 16:30:50 GMT 2004 CHIP Start Patrol

Sat Jul 17 16:31:10 GMT 2004 PICS Start Patrol

MKIV COMMENT: Sat Jul 17 16:50:55 GMT 2004

Centered 01 guider.

Sat Jul 17 16:51:15 GMT 2004 MKIV Start Patrol

ECHO COMMENT: Sat Jul 17 16:51:35 GMT 2004

Time OK.

PSPT COMMENT: Sat Jul 17 16:51:59 GMT 2004

Observing.

Sat Jul 17 18:00:45 GMT 2004 CHIP LSD

Sat Jul 17 18:02:25 GMT 2004 CHIP End LSD

Sat Jul 17 18:02:33 GMT 2004 CHIP BiasLSD

Sat Jul 17 18:03:28 GMT 2004 CHIP End BiasLSD

Sat Jul 17 18:03:36 GMT 2004 CHIP Bias

Sat Jul 17 18:03:56 GMT 2004 PICS Flat

Sat Jul 17 18:04:31 GMT 2004 CHIP End Bias

Sat Jul 17 18:06:19 GMT 2004 PICS End Flat

MKIV COMMENT: Sat Jul 17 18:16:40 GMT 2004

Centered 01 guider.

\*\*PSPT PROBLEM\*\*: Sat Jul 17 18:22:09 GMT 2004

Guider found sun at startup, but was not on the sun at 18:00 when I checked.

RA axis was very loose so I tightened it and restarted. Also the dome had

difficulty moving from the morning east facing position back south towards

the shutdown position.

Sat Jul 17 18:43:17 GMT 2004 MKIV End Patrol

Sat Jul 17 18:43:24 GMT 2004 MKIV Start Cal

Sat Jul 17 19:02:09 GMT 2004 MKIV End Cal

Sat Jul 17 19:02:19 GMT 2004 MKIV Start Patrol

MKIV COMMENT: Sat Jul 17 19:11:08 GMT 2004

Centered 01 guider.

MKIV COMMENT: Sat Jul 17 20:15:49 GMT 2004

Centered 01 guider.

Sat Jul 17 20:16:29 GMT 2004 PICS End Patrol

Sat Jul 17 20:16:43 GMT 2004 CHIP End Patrol

Sat Jul 17 20:25:44 GMT 2004 CHIP Start Patrol

Sat Jul 17 20:26:07 GMT 2004 MKIV Start Patrol

Sat Jul 17 20:26:18 GMT 2004 PICS Start Patrol

\*\*\*\* EVENT COMMENT \*\*\*\*: Sat Jul 17 20:41:15 GMT 2004

Fast moving CME about PA 85-95 from about 19:15-19:45UT.

COMMENT: Sat Jul 17 21:24:27 GMT 2004

I just finished giving a tour to a mostly french speaking group of about a

dozen.

MKIV COMMENT: Sat Jul 17 21:31:45 GMT 2004

Centered 01 guider.

COMMENT: Sat Jul 17 21:54:20 GMT 2004

Dec axis reset, repointed spar.

MKIV COMMENT: Sat Jul 17 22:59:53 GMT 2004

Centered 01 guider.

MKIV COMMENT: Sun Jul 18 00:19:06 GMT 2004

Centered 01 guider.

Sun Jul 18 01:00:39 GMT 2004 CHIP End Patrol

Sun Jul 18 01:03:19 GMT 2004 MKIV End Patrol

Sun Jul 18 01:04:47 GMT 2004 PICS End Patrol

Sun Jul 18 01:12:50 GMT 2004 MKIV Start Patrol

Sun Jul 18 01:14:03 GMT 2004 CHIP Start Patrol

Sun Jul 18 01:14:16 GMT 2004 PICS Start Patrol

COMMENT: Sun Jul 18 01:16:14 GMT 2004

Reconfigured dome shutter.

MKIV COMMENT: Sun Jul 18 01:16:40 GMT 2004

Centered 01 guider.

|                              |      |            |
|------------------------------|------|------------|
| Sun Jul 18 02:06:01 GMT 2004 | MKIV | End Patrol |
| Sun Jul 18 02:06:10 GMT 2004 | CHIP | End Patrol |
| Sun Jul 18 02:06:24 GMT 2004 | PICS | End Patrol |
| Sun Jul 18 02:20:29 GMT 2004 |      |            |

MkIV

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| 00_01.rawmk4 | 01_59.rawmk4 | 18_34.rawmk4 | 20_40.rawmk4 | 22_33.rawmk4  |
| 00_04.rawmk4 | 02_02.rawmk4 | 18_37.rawmk4 | 20_43.rawmk4 | 22_36.rawmk4  |
| 00_07.rawmk4 | 16_51.rawmk4 | 18_40.rawmk4 | 20_46.rawmk4 | 22_39.rawmk4  |
| 00_10.rawmk4 | 16_54.rawmk4 | 18_46.rawmk4 | 20_49.rawmk4 | 22_42.rawmk4  |
| 00_13.rawmk4 | 16_57.rawmk4 | 18_52.rawmk4 | 20_52.rawmk4 | 22_45.rawmk4  |
| 00_16.rawmk4 | 17_00.rawmk4 | 18_58.rawmk4 | 20_55.rawmk4 | 22_48.rawmk4  |
| 00_18.rawmk4 | 17_03.rawmk4 | 19_02.rawmk4 | 20_58.rawmk4 | 22_50.rawmk4  |
| 00_21.rawmk4 | 17_06.rawmk4 | 19_05.rawmk4 | 21_01.rawmk4 | 22_53.rawmk4  |
| 00_24.rawmk4 | 17_08.rawmk4 | 19_08.rawmk4 | 21_04.rawmk4 | 22_56.rawmk4  |
| 00_27.rawmk4 | 17_11.rawmk4 | 19_11.rawmk4 | 21_07.rawmk4 | 22_59.rawmk4  |
| 00_30.rawmk4 | 17_14.rawmk4 | 19_14.rawmk4 | 21_13.rawmk4 | 23_02.rawmk4  |
| 00_33.rawmk4 | 17_17.rawmk4 | 19_17.rawmk4 | 21_16.rawmk4 | 23_05.rawmk4  |
| 00_36.rawmk4 | 17_20.rawmk4 | 19_19.rawmk4 | 21_19.rawmk4 | 23_08.rawmk4  |
| 00_39.rawmk4 | 17_23.rawmk4 | 19_22.rawmk4 | 21_22.rawmk4 | 23_11.rawmk4  |
| 00_42.rawmk4 | 17_26.rawmk4 | 19_25.rawmk4 | 21_25.rawmk4 | 23_14.rawmk4  |
| 00_45.rawmk4 | 17_29.rawmk4 | 19_28.rawmk4 | 21_28.rawmk4 | 23_17.rawmk4  |
| 00_48.rawmk4 | 17_32.rawmk4 | 19_31.rawmk4 | 21_31.rawmk4 | 23_20.rawmk4  |
| 00_51.rawmk4 | 17_35.rawmk4 | 19_34.rawmk4 | 21_34.rawmk4 | 23_23.rawmk4  |
| 00_54.rawmk4 | 17_38.rawmk4 | 19_37.rawmk4 | 21_37.rawmk4 | 23_26.rawmk4  |
| 00_57.rawmk4 | 17_41.rawmk4 | 19_40.rawmk4 | 21_40.rawmk4 | 23_29.rawmk4  |
| 01_00.rawmk4 | 17_44.rawmk4 | 19_43.rawmk4 | 21_43.rawmk4 | 23_32.rawmk4  |
| 01_12.rawmk4 | 17_47.rawmk4 | 19_46.rawmk4 | 21_46.rawmk4 | 23_34.rawmk4  |
| 01_15.rawmk4 | 17_50.rawmk4 | 19_49.rawmk4 | 21_49.rawmk4 | 23_37.rawmk4  |
| 01_18.rawmk4 | 17_53.rawmk4 | 19_52.rawmk4 | 21_52.rawmk4 | 23_40.rawmk4  |
| 01_21.rawmk4 | 17_55.rawmk4 | 19_55.rawmk4 | 21_55.rawmk4 | 23_43.rawmk4  |
| 01_24.rawmk4 | 17_58.rawmk4 | 19_58.rawmk4 | 21_58.rawmk4 | 23_46.rawmk4  |
| 01_27.rawmk4 | 18_01.rawmk4 | 20_01.rawmk4 | 22_01.rawmk4 | 23_49.rawmk4  |
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| 01_33.rawmk4 | 18_07.rawmk4 | 20_06.rawmk4 | 22_06.rawmk4 | 23_55.rawmk4  |
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| 01_39.rawmk4 | 18_13.rawmk4 | 20_12.rawmk4 | 22_12.rawmk4 | c18_43.rawmk4 |
| 01_42.rawmk4 | 18_16.rawmk4 | 20_15.rawmk4 | 22_15.rawmk4 | c18_49.rawmk4 |
| 01_45.rawmk4 | 18_19.rawmk4 | 20_26.rawmk4 | 22_18.rawmk4 | c18_55.rawmk4 |
| 01_48.rawmk4 | 18_22.rawmk4 | 20_29.rawmk4 | 22_21.rawmk4 |               |
| 01_51.rawmk4 | 18_25.rawmk4 | 20_32.rawmk4 | 22_24.rawmk4 |               |
| 01_54.rawmk4 | 18_28.rawmk4 | 20_34.rawmk4 | 22_27.rawmk4 |               |
| 01_56.rawmk4 | 18_31.rawmk4 | 20_37.rawmk4 | 22_30.rawmk4 |               |