

-----  
Mauna Loa Solar Observatory Observer's Log  
-----

Wed Dec 6 17:18:14 GMT 2000

Year: 00 Doy: 341

Observer: koon

WEATHER COMMENT: Wed Dec 6 17:18:15 GMT 2000

Clear sky, wind=5 mph from the SW, temp=40 F.

Wed Dec 6 17:19:05 GMT 2000 CHIP Startup--Initializing new tape

COMMENT: Wed Dec 6 17:24:10 GMT 2000

Will start instruments after I figure out why the heater and light are up in the dome and turned on, not sure if I should move Spar, etcetera.

Wed Dec 6 17:46:45 GMT 2000 CHIP Start 7 Passband Patrol

COMMENT: Wed Dec 6 17:46:22 GMT 2000

The lamp and heater were used to try to heat up the CHIP plate temperature, they didn't work so I removed them. The plate temp is the same as it has been with the cooler out of order, about 13 C. The dome was about 45 F due to the heater, probably only about 5 degrees warmer than it would be without the heater, there is no insulation up there.

MKIV COMMENT: Wed Dec 6 17:50:11 GMT 2000

The O1 guider is connected again and at both limits and making a lot of noise as it slowly self destructs, just like before I started leaving it disconnected. I'll watch it, if it doesn't get better by mid day I'll set it as usual and disconnect it, that way we'll still have a semi-functioning O1 guider to use for occulting corrections. The spill problems can sometimes be corrected in late morning by repointing the Spar and resetting the guider, instead of hooking up the O1 guider and changing the Spar guiding.

Wed Dec 6 18:15:27 GMT 2000 PICS Start Patrol

\*\*PICS PROBLEM\*\*: Wed Dec 6 18:15:34 GMT 2000

Didn't start, fixed with Kill/Run.

COMMENT: Wed Dec 6 18:47:29 GMT 2000

The Spar lost guiding so I repointed and reset the guider. There was spill around the East side of the occulter earlier, now after repointing there is no spill.

\*\*MKIV PROBLEM\*\*: Wed Dec 6 18:52:01 GMT 2000

Now seeing possible spill around occulter in North and South. The O1 guider is still connected at this time.

Wed Dec 6 18:55:22 GMT 2000 PICS Start Patrol

\*\*MKIV PROBLEM\*\*: Wed Dec 6 19:41:38 GMT 2000

Spill looks worse than ever. O1 guider is still connected. Will set occulting and disconnect the O1 guider.

Wed Dec 6 20:00:40 GMT 2000 CHIP LSD

\*\*MKIV PROBLEM\*\*: Wed Dec 6 19:50:57 GMT 2000

Occulting recentered and O1 guider disconnected. I still see some light pixels mainly grouped far out away from the limb in the NNE and SSW, they are evenly dispersed and so I think that is an indication of centering, also the solar image looks centered on the occulting disk when I look at it. If the occulting changes try repointing the Spar and resetting the guider, I think

this will cure any image spill, without having to adjust the guider. This may be more of a Spar balance and flexure problem than an O1 guiding problem. With the O1 guider on, the occulting varied greatly as the O1 guider hunted to correct its own mechanical cross-talk, this is why I disconnected it a long time ago. The gears wear out from excess hunting and they are difficult to change. Gear dust is also created and that gets on optics. So the guider should be used sparingly.

```
Wed Dec 6 20:03:28 GMT 2000 CHIP End LSD
Wed Dec 6 20:03:45 GMT 2000 CHIP BiasLSD
Wed Dec 6 20:04:39 GMT 2000 CHIP End BiasLSD
Wed Dec 6 20:04:55 GMT 2000 CHIP Bias7
Wed Dec 6 20:05:52 GMT 2000 CHIP End Bias7
WEATHER COMMENT: Wed Dec 6 21:43:54 GMT 2000
Thick orographic clouds have moved in, shutting down.
Wed Dec 6 21:44:42 GMT 2000 PICS End Patrol
Wed Dec 6 21:45:50 GMT 2000 CHIP End Patrol
Wed Dec 6 21:50:21 GMT 2000 CHIP FrontEnd finished.
Wed Dec 6 22:12:04 GMT 2000
```

MkIV

17_46.rawmk4	18_34.rawmk4	19_21.rawmk4	20_18.rawmk4	21_06.rawmk4
17_49.rawmk4	18_37.rawmk4	19_24.rawmk4	20_21.rawmk4	21_09.rawmk4
17_52.rawmk4	18_40.rawmk4	19_27.rawmk4	20_24.rawmk4	21_12.rawmk4
17_55.rawmk4	18_43.rawmk4	19_30.rawmk4	20_27.rawmk4	21_15.rawmk4
17_58.rawmk4	18_46.rawmk4	19_33.rawmk4	20_30.rawmk4	21_18.rawmk4
18_01.rawmk4	18_49.rawmk4	19_36.rawmk4	20_33.rawmk4	21_21.rawmk4
18_04.rawmk4	18_52.rawmk4	19_39.rawmk4	20_36.rawmk4	21_23.rawmk4
18_07.rawmk4	18_54.rawmk4	19_42.rawmk4	20_39.rawmk4	21_26.rawmk4
18_10.rawmk4	18_57.rawmk4	19_45.rawmk4	20_42.rawmk4	21_29.rawmk4
18_13.rawmk4	19_00.rawmk4	19_48.rawmk4	20_45.rawmk4	21_32.rawmk4
18_16.rawmk4	19_03.rawmk4	19_51.rawmk4	20_48.rawmk4	21_35.rawmk4
18_19.rawmk4	19_06.rawmk4	19_54.rawmk4	20_51.rawmk4	21_38.rawmk4
18_22.rawmk4	19_09.rawmk4	19_57.rawmk4	20_54.rawmk4	21_41.rawmk4
18_25.rawmk4	19_12.rawmk4	20_00.rawmk4	20_57.rawmk4	c20_03.rawmk4
18_28.rawmk4	19_15.rawmk4	20_06.rawmk4	21_00.rawmk4	c20_09.rawmk4
18_31.rawmk4	19_18.rawmk4	20_12.rawmk4	21_03.rawmk4	c20_15.rawmk4