
Mauna Loa Solar Observatory Observer's Log

Sun Nov 4 17:05:19 GMT 2012

Year: 12 Doy: 309

Observer: berkey

WEATHER COMMENT: Sun Nov 4 17:05:33 GMT 2012

temp 48f, wind 5mph from s, clear skies with a very thick vog layer below the 7000ft temp inversion

____end____

Sun Nov 4 17:14:16 GMT 2012: PSPT Start Patrol

Sun Nov 4 17:15:44 GMT 2012 CHIP Start Patrol

Sun Nov 04 17:19:38 GMT 2012 COMP Start Patrol

Sun Nov 4 18:00:46 GMT 2012 CHIP LSD

Sun Nov 4 18:02:43 GMT 2012 CHIP End LSD

Sun Nov 4 18:02:54 GMT 2012 CHIP BiasLSD

Sun Nov 4 18:03:49 GMT 2012 CHIP End BiasLSD

Sun Nov 4 18:03:57 GMT 2012 CHIP Bias

Sun Nov 4 18:04:52 GMT 2012 CHIP End Bias

Sun Nov 4 18:05:02 GMT 2012 CHIP ReStart Patrol

Sun Nov 04 20:18:51 GMT 2012 COMP End Patrol

Sun Nov 04 20:18:52 GMT 2012 COMP Start Patrol

Sun Nov 4 23:02:46 GMT 2012 CHIP LSD

Sun Nov 4 23:04:37 GMT 2012 CHIP End LSD

Sun Nov 4 23:04:46 GMT 2012 CHIP BiasLSD

Sun Nov 4 23:05:16 GMT 2012 CHIP End BiasLSD

Sun Nov 4 23:05:30 GMT 2012 CHIP Bias

Sun Nov 4 23:05:51 GMT 2012 CHIP End Bias

Sun Nov 4 23:05:59 GMT 2012 CHIP ReStart Patrol

Sun Nov 04 23:17:51 GMT 2012 COMP End Patrol

Sun Nov 04 23:17:53 GMT 2012 COMP Start Patrol

NOTE BY BEN: Mon Nov 5 00:30:14 GMT 2012

Volcanic haze has been moving in for the last couple hours, and there are now clouds starting to move into the direction of the sun.

____end____

Mon Nov 05 00:36:53 GMT 2012 COMP End Patrol

Mon Nov 5 00:37:01 GMT 2012 CHIP End Patrol

Mon Nov 5 00:41:47 GMT 2012: PSPT Abort Patrol

GONG COMMENT BY BEN: Mon Nov 5 00:50:36 GMT 2012

Gong monthly pm done.

____end____

MKIV COMMENT BY BEN: Mon Nov 5 00:50:51 GMT 2012

To get a better inspection of the back end optics the occulting disk assembly was pulled out today. I found the field lens has a lot of clouding and some burn/marks in one of the layers of coatings matching the 5 solar spots that

pass through the plate behind the occulting disk. The retarder was also found to have a lot of clouding, dust and a chip near the end of the optic.

It also seems that a brown powder (I assume either wear from of lubricant of) the retarder rotation stage was found to be lightly scattered on the field lens and covering the retarder and retarder rotation motor/gears train.

I also found pieces of a thin brittle film that remind me a lot of highly uv damage plastic packing. But it could also be some sort of coating. It is not at all apparently where the plastic film came from.

Also on the field lens it appears that the coating is starting to fail near the edges of the optic leading to strange interference patterns at oblique angles.

My guess is most of these problems have been slow to build up over time and to represent the sudden loss of mk4 last month. Tomorrow I will bring a bright head lamp to try and investigate further.

____end____

Mon Nov 5 00:59:29 GMT 2012

MkIV