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Mauna Loa Solar Observatory Observer's Log  
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Mon Jun 11 15:57:42 GMT 2018

Year: 18 Doy: 162

Observer: waters

WEATHER COMMENT: waters: Mon Jun 11 16:31:59 GMT 2018

Temp 39.9f with windspeed at about 7-13mph from the East. Sky is currently covered with cirrocumulus. Waiting for better conditions before opening.

\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY waters: Mon Jun 11 17:51:08 GMT 2018

PM Blew off Kcor O1

\_\_\_\_end\_\_\_\_

\*\*KCOR PROBLEM COMMENT BY waters\*\* : Mon Jun 11 17:55:36 GMT 2018

Lens cover stopped shortly after trying to put it back in beam. Moved the spar out of the Sun's line of sight for now while Ben looks at what is happening.

\_\_\_\_end\_\_\_\_

Mon Jun 11 18:43:15 GMT 2018 SGS Alignment complete

Mon Jun 11 18:43:38 GMT 2018 Kcor Focus/alignment program exited

Mon Jun 11 18:47:22 GMT 2018 KCOR Start Synoptic Patrol

Mon Jun 11 19:10:53 GMT 2018 KCOR End Patrol

GENERAL COMMENT BY waters: Mon Jun 11 19:11:15 GMT 2018

Ben is currently doing an O1 inspection real quick.

\_\_\_\_end\_\_\_\_

Mon Jun 11 19:16:23 GMT 2018 KCOR Start Synoptic Patrol

Mon Jun 11 19:32:30 GMT 2018 KCOR End Patrol

GENERAL COMMENT BY waters: Mon Jun 11 19:32:44 GMT 2018

Ben is inspecting the field lens

\_\_\_\_end\_\_\_\_

Mon Jun 11 19:34:48 GMT 2018 KCOR Start Synoptic Patrol

Mon Jun 11 19:43:22 GMT 2018 KCOR End Patrol

GENERAL COMMENT BY waters: Mon Jun 11 20:04:14 GMT 2018

Stopped taking data so Ben could pull the O1 for cleaning

\_\_\_\_end\_\_\_\_

KCOR COMMENT BY Observer: Mon Jun 11 21:53:34 GMT 2018

O1 was washed under normal procedure, to deal with the polarization signal we were seeing over the weekend. Inspection in full sun shows no obvious signs of residue.

\_\_\_\_end\_\_\_\_

Mon Jun 11 21:57:03 GMT 2018 SGS Alignment complete

\*\*KCOR PROBLEM COMMENT BY Observer\*\* : Mon Jun 11 21:58:06 GMT 2018

Troubleshooting the lens cover it was found that the in-beam proximity limit sensor (The one closest to the door.) Was flaky at first it appeared to be a cabling issue due as it would kind of come and go and the connector was backed off. But swapping it with spare prox gave I was able to tighten the cable all the way down and not see any dropouts.

Testing moving the cover back and forth seems to show that the new prox is working properly. During the install I was unable to put the new prox back in the exactly same place as the old one due to clocking of the cable; so I think we are now about .5mm further away from the flag than we were the last time. Since the old prox showed some potential contact damage I think this new location is ok and maybe even better.

\_\_\_end\_\_\_

GENERAL COMMENT BY waters: Mon Jun 11 22:02:03 GMT 2018  
Delaying taking data because of cirrus coming in.

\_\_\_end\_\_\_

Mon Jun 11 22:36:25 GMT 2018 SGS Alignment complete  
Mon Jun 11 22:36:40 GMT 2018 Kcor Focus/alignment program exited  
Mon Jun 11 22:40:14 GMT 2018 KCOR Start Synoptic Patrol  
GENERAL COMMENT BY waters: Mon Jun 11 23:04:34 GMT 2018

Ben rotated the O1 90 degrees clockwise looking down the tube when he reinstalled the lens into its housing.

\_\_\_end\_\_\_

Mon Jun 11 23:40:43 GMT 2018 KCOR End Patrol  
GENERAL COMMENT BY waters: Mon Jun 11 23:41:38 GMT 2018  
Some cirrus coming in, K-cor idle for now.

\_\_\_end\_\_\_

Mon Jun 11 23:44:59 GMT 2018 KCOR Start Synoptic Patrol  
Mon Jun 11 23:53:08 GMT 2018 KCOR End Patrol  
GENERAL COMMENT BY waters: Mon Jun 11 23:53:36 GMT 2018  
Cirrus, Kcor idled

\_\_\_end\_\_\_

KCOR COMMENT BY berkey: Tue Jun 12 00:28:21 GMT 2018

Tired to blow off the back of the kcor o1 to get rid of the 2 bulletholes. Not sure if this worked; looked ok outside the telescope looked worse after going back in :/

\_\_\_end\_\_\_

Tue Jun 12 00:29:01 GMT 2018 Kcor Focus/alignment program exited  
Tue Jun 12 00:30:07 GMT 2018 Kcor sees an SGS Guiding Error closing lens cover  
Tue Jun 12 00:30:08 GMT 2018 KCOR End Patrol

GENERAL COMMENT BY berkey: Tue Jun 12 00:40:17 GMT 2018

Kcor images post last inspection seem to have a halo of light off oneside of the occulter in the raw data. I think the Halo is in the north side but I am not 100% I am doing the transformation in my head properly.

\_\_\_end\_\_\_

GENERAL COMMENT BY berkey: Tue Jun 12 00:42:19 GMT 2018

Spar dec dropped and then shot back up at 230pm hst, which triggered the SGS error.

\_\_\_end\_\_\_

Tue Jun 12 00:46:16 GMT 2018 KCOR Start Synoptic Patrol  
Tue Jun 12 01:00:29 GMT 2018 KCOR End Patrol  
Tue Jun 12 01:00:44 GMT 2018 KCOR Start Synoptic Patrol  
Tue Jun 12 01:01:16 GMT 2018 KCOR End Patrol  
Tue Jun 12 01:02:00 GMT 2018 KCOR Start Synoptic Patrol  
Tue Jun 12 01:06:32 GMT 2018 KCOR End Patrol  
Tue Jun 12 01:06:48 GMT 2018 KCOR Start Synoptic Patrol  
GENERAL COMMENT BY berkey: Tue Jun 12 01:07:58 GMT 2018

Going in and out of bright patches.

\_\_\_end\_\_\_

Tue Jun 12 01:08:09 GMT 2018 KCOR End Patrol

GENERAL COMMENT BY waters: Tue Jun 12 01:30:04 GMT 2018

Today was an alright day for taking data; a good amount of aerosols, especially in the afternoon as well as cirrus.

\_\_\_end\_\_\_

ONSITE STAFF: berkey, waters