

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

Mon Oct 28 17:27:12 GMT 2019

Year: 19 Doy: 301

Observer: berkey

WEATHER COMMENT: berkey: Mon Oct 28 17:27:14 GMT 2019

Temp: 46.4f, Humidity: 7%, Pressure: 28.591in, Wind: 7mph from 164degs, Skies: clear

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

GENERAL COMMENT BY berkey: Mon Oct 28 17:27:33 GMT 2019

PM Blew off Kcor O1 and opened windows up stairs

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

Mon Oct 28 17:29:20 GMT 2019 SGS Alignment complete

Mon Oct 28 17:30:50 GMT 2019 Kcor Focus/alignment program exited

Mon Oct 28 17:36:16 GMT 2019 KCOR Start Synoptic Patrol

Mon Oct 28 19:32:53 GMT 2019 KCOR End Patrol

Mon Oct 28 19:32:55 GMT 2019 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

GENERAL COMMENT BY berkey: Mon Oct 28 19:45:55 GMT 2019

Lost guiding in the cal.

Lots of slop dec. Seems like there is somethign loose on the spar side of the clutch surface

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

Mon Oct 28 19:48:14 GMT 2019 KCOR End Calibration Script

Mon Oct 28 19:48:31 GMT 2019 KCOR Start Synoptic Patrol

Mon Oct 28 19:48:32 GMT 2019 KCOR Start Synoptic Patrol

Mon Oct 28 19:48:43 GMT 2019 KCOR End Patrol

Mon Oct 28 23:33:28 GMT 2019 SGS Alignment complete

Mon Oct 28 23:34:37 GMT 2019 Kcor Focus/alignment program exited

GENERAL COMMENT BY berkey: Mon Oct 28 23:43:06 GMT 2019

Inspected the DEC guider mechanical train. Something is definatly loose, but I dont understand what I am looking at well e nough to know what to adjust or what might be broken. To address this in the short term I have tried to slightly optiomiz e the spar balance to work with the kcor calibration optics both in and out of the beam. Histocially the spar was balance d with ND in and cal pol out. But there is a resoanble big balance moment change when the cal pol is in the beam. Such t hat we the loose dec train we tended to get guiding issues during the cal.

This probally wont address the issue Greg saw yesterday afternoon where he lost guiding ever 30-40 minutes.

The Dec clutch is also slightly looser now than it had been. Based at looking at how the DEC arm moves relative to the sp ar I think our drive train damage may have roots in a dec clutch that was too tight; so the dec drive train slipped instea d of the clutch.

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

GENERAL COMMENT BY berkey: Tue Oct 29 01:50:02 GMT 2019

Foggy and raining.

Some data today.

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

ONSITE STAFF: berkey