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Mauna Loa Solar Observatory Observer's Log  
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Tue Mar 19 17:19:37 GMT 2019

Year: 19 Doy: 078

Observer: berkey

WEATHER COMMENT: berkey: Tue Mar 19 17:23:23 GMT 2019

Temp: 41.5f, Humidity: 26%, Pressure: 28.648in, Wind: 7mph from 210degs, Skies: clear

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

Tue Mar 19 17:54:41 GMT 2019 SGS Alignment complete

Tue Mar 19 17:54:48 GMT 2019 Kcor Focus/alignment program exited

KCOR COMMENT BY berkey: Tue Mar 19 17:59:40 GMT 2019

Based on reports of bad fringes and other artifacts in the kcor images over the weekend. An occulter inspection was performed and the occulter was reseated.

Inspection showed no obvious issues; occulter seemed well aligned and well seated. After pulling the occulter it appears that the occulter went back in like it was before. Kcor will be run for a little while but I expect this intervention wont clear up the fringing issues.

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

GENERAL COMMENT BY berkey: Tue Mar 19 17:59:53 GMT 2019

PM Blew off Kcor O1 and windows open.

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

GENERAL COMMENT BY berkey: Tue Mar 19 18:00:07 GMT 2019

PM Blew off Kcor Field Lens

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

Tue Mar 19 18:02:45 GMT 2019 KCOR Start Synoptic Patrol

Tue Mar 19 18:52:24 GMT 2019 SGS Alignment complete

Tue Mar 19 18:52:26 GMT 2019 Kcor Focus/alignment program exited

KCOR COMMENT BY berkey: Tue Mar 19 18:56:39 GMT 2019

Checked O1 seating of the O1 holder into the telescope to try and understand if the fringing came from a miss-alignment there.

Bolts that attached the massive O1 mount to the telescope were tightened to close the gap between the O1 mount and the moving section of the O1 stage. NOTE!!! these bolts do not compress the O1 orings or in anyway hold the glass into the lens cell they just hold heavy pieces of aluminum to other pieces of aluminum.

No obvious change to the beam alignment w.r.t. to the occulter was seen during this work.

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

In a phone conversation, Ben reports the objective lens is filthy. It will be cleaned on Friday. Currently out of gloves needed for optics work. - J.B.

GENERAL COMMENT BY berkey: Tue Mar 19 19:47:15 GMT 2019

Adjusted the O1 lens cell inside its mount. New position has a ~2 degree change in O1 clocking.

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

Tue Mar 19 19:50:35 GMT 2019 Kcor Focus/alignment program exited

Tue Mar 19 21:08:43 GMT 2019 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Tue Mar 19 21:28:09 GMT 2019 KCOR End Calibration Script  
GENERAL COMMENT BY berkey: Wed Mar 20 00:42:31 GMT 2019  
Lost guiding due to bumping into the ladder.

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

ONSITE STAFF: berkey