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Mauna Loa Solar Observatory Observer's Log  
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Tue May 4 16:50:47 GMT 2021

Year: 21 Doy: 124

Observer: mlso

WEATHER COMMENT: mcotter: Tue May 04 16:54:24 GMT 2021

Temp: 37.2f, Humidity: 100%, Pressure: 28.728in, Wind: 4mph from 304degs, Skies: Mixed skies. High altitude cirrus scattered across the sky with with Cumulus and Altocumulus clouds scattered all around the mountains at various levels. Fog and mist driving up the Maunaloa access road to about 10,500' with very wet conditions at the observatory area. Sun is currently shining through mist and upper level clouds.

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

GENERAL COMMENT BY mcotter: Tue May 04 17:48:58 GMT 2021

Misty conditions persist so I am going to inspect the RA mechanical assembly, clean out any particulate matter that I had previously observed and measure the worm gear tension bracket and springs to verify that there is uniform pressure being applied between the worm gear and spur gear.

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

GENERAL COMMENT BY mcotter: Wed May 05 01:48:14 GMT 2021

Inspected the RA mechanism and discussed with Ben plans for a modification to part of the assembly so that we may gain better access to the clutch cam nuts. Additionally I cleaned the cam rollers and adjusted the gap that determines the amount of travel the worm assembly will move when it encounters undue resistance and the worm needs to to disengage from the spur gear.

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

UCoMP COMMENT BY mcotter: Wed May 05 01:53:45 GMT 2021

The occulter did not look like it was square, or parallel, with the field lens. I readjusted and squared all the components within the assembly and when tightening down the hardware I applied Loctite 242 thread locker to ensure that the screws maintained their desired tightness.

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

UCoMP COMMENT BY mcotter: Wed May 05 01:54:44 GMT 2021

Removed the ND filter from the front of the instrument and stowed it in its storage container.

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

GENERAL COMMENT BY mcotter: Wed May 05 01:55:25 GMT 2021

The weather was very poor today so no observing was done.

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

ONSITE STAFF: berkey