

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

Mon Mar 22 17:06:19 GMT 2021

Year: 21 Doy: 081

Observer: berkey

WEATHER COMMENT: Observer: Mon Mar 22 17:06:42 GMT 2021

Temp: 33.2f, Humidity: 23%, Pressure: 28.799in, Wind: 6mph from 187degs, Skies: clear

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

GENERAL COMMENT BY Observer: Mon Mar 22 17:32:40 GMT 2021

Opened windows upstairs

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

GENERAL COMMENT BY Observer: Mon Mar 22 17:33:48 GMT 2021

PM Blew off Kcor 01

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

WEATHER COMMENT: Observer: Mon Mar 22 17:34:14 GMT 2021

Temp: 34.6f, Humidity: 30%, Pressure: 28.819in, Wind: 2mph from 248degs, Skies: sky too bright to observe with kcor.

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

Mon Mar 22 17:55:03 GMT 2021 Kcor Focus/alignment program exited

Log Type BY Observer: Mon Mar 22 18:07:14 GMT 2021

Skies improving slightly taking kcor data.

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

GENERAL COMMENT BY berkey: Mon Mar 22 18:07:47 GMT 2021

Moved logging to a new computer, things are now running on LAVA instead of shabarlap-2

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

WEATHER COMMENT: berkey: Mon Mar 22 20:16:38 GMT 2021

Temp: 42.8f, Humidity: 27%, Pressure: 28.861in, Wind: 5mph from 351degs, Skies: Sky is very bright but Kcor is running and the Kcor Coronagraph image is fairly good. The inversion layer is visible on the horizon at approximately the level of Maunakea or higher, so I don't think the brightness of the Kcor Synoptic image is going to improve very much.

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

GENERAL COMMENT BY berkey: Mon Mar 22 21:13:40 GMT 2021

Kcor has been stopped.

Alto cumulus clouds have moved in from the east-northeast. Clouds are increasing to the south and appear to be moving toward the observatory.

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

GENERAL COMMENT BY berkey: Mon Mar 22 21:15:41 GMT 2021

With the halting of the Kcor instrument we are beginning modification work to the spar extender to accommodate for additional movement we need to impart on Ucomp 01.

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

UCoMP COMMENT BY berkey: Tue Mar 23 01:42:24 GMT 2021

Spar extender mounting holes were enlarged from 3/8" 5/8" to accommodate a UCoMP 01 alignment.

The spar extender was reinstalled keeping the North and south faces of the spar extender as close to parallel to the spar as possible, and East-west the spar extender was moved below the spar by about 1/8" on the Chromag face. This change will force Chromag to use spacers or shims under the foreoptics to bring them back up to the level of the spar, previous investigations had found the spar extender was not square to the spar so we already knew shims would be required this change just forces larger spacers during the install.

During the O1 assembly re-installation we found some cable damage on the O1 drive motor. The CD-0025B Orange +V cable had broke next to the motor side connection. The cable was brought down stairs and pin 2 was pushed out of the PADP-12V-1S connector, the broken wire was then soldered back onto the pin and finally the pin and wire were reinstalled into the connector.

Post installation testings shows all 3 stages associated with the O1 (focus, cover and diffuser) are working nominally.

New alignment range of the O1 could not be verified or tested due to clouds/rain/hail.

Dome ADR sensors were reinstalled on the spar extender, they they likely will need some tweaking later in the week when we have sunshine.

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

WEATHER COMMENT: berkey: Tue Mar 23 01:46:19 GMT 2021

Temp: 37.2f, Humidity: 98%, Pressure: 28.746in, Wind: 5mph from 124degs, Skies: Overcast skies with drizzle, rain and free zing rain.

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

ONSITE STAFF: berkey, mcotter