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Mauna Loa Solar Observatory Observer's Log  
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Sat Feb 27 17:37:27 GMT 2021

Year: 21 Doy: 058

Observer: mlso

WEATHER COMMENT: mcotter: Sat Feb 27 17:42:45 GMT 2021

Temp: 33.1f, Humidity: 43%, Pressure: 28.873in, Wind: 4mph from 186degs, Skies: Very Heavy rain with localized flooding from Hilo to Maunaloa access road turn off. Rain and drizzle to approximately 9000' level. Mostly clear at observatory and summit of Maunaloa, but high altitude Cirrocumulus clouds are scattered across the sky, mostly in the east. Fresh snow on Maunakea. Inversion layer visible at the level of Haleakala.

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

Sat Feb 27 17:52:17 GMT 2021 Kcor Focus/alignment program exited

GENERAL COMMENT BY mcotter: Sat Feb 27 17:58:04 GMT 2021

Kcor up and running. Image is a little bright but better than I thought it would be based on the high altitude clouds that are scattered across the sky.

SGS Guider offsets; X(RA): -103, Y(Dec): 47.

Checked Polarization: Mid, Bright, Dark, Mid.

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

\*\*\*\*Possible CME in Progress mcotter\*\*\*\* : Sat Feb 27 18:36:50 GMT 2021

Possible CME seen launching near PA:300 at time 18:20 UT

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

Sat Feb 27 19:39:27 GMT 2021 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Sat Feb 27 19:54:42 GMT 2021 KCOR End Calibration Script

GONG COMMENT BY mcotter: Sat Feb 27 19:58:33 GMT 2021

Removed GONG cover and re-started the GONG instrument. Brought heater back to observatory.

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

GENERAL COMMENT BY mcotter: Sat Feb 27 20:55:27 GMT 2021

Alto cumulus clouds have moved in from the east, southeast and are now covering the observatory. Kcor has been paused and the dome shutter doors are now closed in the event of precipitation.

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

GENERAL COMMENT BY mcotter: Sat Feb 27 22:48:56 GMT 2021

The windows in the dome are now closed.

Cloud coverage has increased and the summit and observatory are both overcast. Light fog and mist are present, and seems to be increasing from the west, northwest.

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

WEATHER COMMENT: mcotter: Sun Feb 28 00:57:53 GMT 2021

Temp: 35.8f, Humidity: 87%, Pressure: 28.822in, Wind: 0mph from 52degs, Skies: The weather has turned very bad. Hale and freezing rain has been going on for the past 20 to 30 minutes.

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

GENERAL COMMENT BY mcotter: Sun Feb 28 01:06:51 GMT 2021

Thunder and lightning is taking place along with freezing rain, sleet and small pellets of hail.

POSSIBLE LIGHTNING STRIKE: when I was about to exit the observatory to cover the GONG a lightning strike hit directly in front of the observatory and all power dropped out off the observatory. I called Ben and made him aware of the situation. Ben instructed me to check the instrument panel on the power regulator in the front of the observatory; the three phases were all in the green and the instrument power light was illuminated. After five minutes the power came returned and everything seemed to come up properly. There doesn't appear to be any damage incurred from the strike.

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

GENERAL COMMENT BY mcotter: Sun Feb 28 01:08:13 GMT 2021

Weather conditions are very poor with freezing rain and hail. I am going to cover GONG and then head down the mountain.  
\_\_\_\_end\_\_\_\_

ONSITE STAFF: mcotter