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Mauna Loa Solar Observatory Observer's Log

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Sun May 17 16:46:36 GMT 2026

Year:26 Doy:137

Observer: mcotter

Weather COMMENT BY mcotter: Sun May 17 15:25:49 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-05-17 16:38:00

Temperature : 41.7 deg F

Dew Point : 26.54 deg F

Pressure : 680.76 mbar

Wind Speed : 8.05 mph

Wind Direction : 229.7 deg

Skies: A thick hazy blue brown inversion layer is visible on the horizon just below the peak of Haleakala. There are some lower level scattered Cirrostratus clouds visible on the horizon in all directions but above the sky is clear, though it appears a bit bright.

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

GENERAL COMMENT BY mcotter: Sun May 17 15:27:38 GMT 2026

Power Supply Levels:

The power levels were as follows:

ECO FLO: Battery 73%.

YETI: Battery 0%.

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

GENERAL COMMENT BY mcotter: Sun May 17 15:31:25 GMT 2026

The YETI power level was at 0%. Due to this, I switched input power to the Yeti from the panels to the output of the ECO FLO to get the charge level up. I also switched the internet computer to the Eco Flo output until the YETI reaches a satisfactory level to switch the net back again.

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

Sun May 17 15:46:05 GMT 2026 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Sun May 17 15:56:04 GMT 2026

Kcor:

I ran the Focus Routine and the image was bright, but the focus range was good and parabola trace was good. I attempted to run the Observing code but the Synoptic images were too bright to observe at this time.

The sky did appear a bit bright before I started the observing code, but I will wait about 20 minutes and try again and hopefully the Sun will have risen above the scattered light on the horizon.

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

GENERAL COMMENT BY mcotter: Sun May 17 15:57:21 GMT 2026

Dome open.

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

GENERAL COMMENT BY mcotter: Sun May 17 15:57:32 GMT 2026

Opened windows upstairs.

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

\*\* KCOR PM mcotter \*\* : Sun May 17 15:57:40 GMT 2026

Blew off Kcor 01.

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

\*\* GENERAL PROBLEM REPORTED BY mcotter \*\* : Sun May 17 16:02:33 GMT 2026

Global connect:

Having issues connecting with Global Protect. I have attempted to connect multiple times and was able to connect finally, but it has dropped out again on the Wahoo 2 computer. I will continue to attempt to connect with the Wahoo 2 computer.

I had to try with the Kcor computer a few times but was finally able to connect and it has stayed connected.

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

BY mcotter: Sun May 17 16:09:18 GMT 2026

## Power Supply Levels:

The ECO FLO panels are getting sunlight so I switched the YETI back to the panels input source.

The power input and battery levels are as follows:

ECO FLO:

Input power: 215 W.

Batter: 52%.

YETI:

Input power: 80 W.

Battery: 6%.

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

KCOR COMMENT BY mcotter: Sun May 17 16:17:35 GMT 2026

Kcor:

Observing was again attempted, but the sky still remains too bright.

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

KCOR COMMENT BY mcotter: Sun May 17 16:33:05 GMT 2026

Kcor:

The Kcor instrument is now observing. The Synoptic images have darkened and look good. The polarization was verified and looks good.

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

KCOR COMMENT BY mcotter: Sun May 17 16:52:19 GMT 2026

Kcor:

The Kcor NRGF images look a bit blurry. I am rerunning the Focus Routine to see if I can obtain a better focus.

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

Sun May 17 16:53:05 GMT 2026 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Sun May 17 16:58:35 GMT 2026

I re-ran the focus routine, but I ended up manually changing the focus range from 133.45 to 134.52.

The Observing code is now running and the polarization looks good.

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

KCOR COMMENT BY mcotter: Sun May 17 17:01:47 GMT 2026

Kcor:

The sky remains bright but the Synoptic images look good.

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

KCOR COMMENT BY mcotter: Sun May 17 18:34:32 GMT 2026

Kcor:

The Kcor NRGF image now looks to be in better focus.

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

Weather COMMENT BY mcotter: Sun May 17 18:44:19 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-05-17 18:38:00

Temperature : 48.31 deg F

Dew Point : 32.01 deg F

Pressure : 681.8 mbar

Wind Speed : 2.24 mph

Wind Direction : 100.8 deg

Skies: Orographic clouds have come in from the south and are now encroaching into the viewing area.

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

KCOR BY mcotter: Sun May 17 18:45:56 GMT 2026

Kcor:

The Kcor instrument has been stopped due to clouds coming in from the south over the peak of Maunaloa.

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

Weather COMMENT BY mcotter: Sun May 17 19:44:40 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-05-17 19:41:00

Temperature : 49.28 deg F

Dew Point : 38.17 deg F

Pressure : 682.23 mbar

Wind Speed : 12.08 mph

Wind Direction : 30.4 deg

Skies: The sky has become mostly overcast with more clouds coming in from the south and east.

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

GENERAL COMMENT BY mcotter: Sun May 17 19:45:33 GMT 2026

Dome closed:

The dome and windows are now closed due to poor sky conditions.

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

KCOR COMMENT BY KCOR: Sun May 17 20:17:57 GMT 2026

KCOR file transfer report

KCor created 211 .bin files

207 .fts files

NOTICE ? 4 .bin file(s) with no matching .fts:

20260517\_171020\_kcor.bin

20260517\_173646\_kcor.bin

20260517\_180840\_kcor.bin

20260517\_184249\_kcor.bin

Remote site is complete ? no rsync required.

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

KCOR COMMENT BY mcotter: Sun May 17 20:26:05 GMT 2026

Kcor:

The Kcor computer has been powered off to conserve ECO FLO battery level.

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

Guider/spar COMMENT BY mcotter: Sun May 17 20:27:17 GMT 2026

The Guider/SGS power has been turned off.

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

BY mcotter: Sun May 17 20:33:44 GMT 2026

Power Supply Levels:

To conserve battery levels everything, except for the network computer (and the Wahoo 2 computer that I am using to write the log) have been turned off to conserve power. I have left the network computer plugged into the ECO FLO power supply due to the YETI not having a lot of battery back up at this time.

ECO FLO battery level: 29%.

Input power: approximately 600 W

YETI battery level: 20%.

Input power: approximately 180 W.

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

Weather COMMENT BY mcotter: Sun May 17 22:01:56 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-05-17 21:56:00

Temperature : 48.2 deg F

Dew Point : 41.21 deg F

Pressure : 682.14 mbar

Wind Speed : 3.8 mph

Wind Direction : 325.6 deg

Skies: The sky is heavily overcast with a light fog starting to move into the observatory area.

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

GENERAL COMMENT BY mcotter: Sun May 17 22:59:24 GMT 2026

End Of Day:

Today's sky started off bright and caused a late start to observing. Unfortunately clouds came in shortly after observing started and the instrument was shut down. The clouds really started getting heavy and the dome was closed after a brief time.

The ECO FLO battery is currently at 43% and the YETI battery is at 35%. Because the YETI does not have a large battery supply I am going to leave the network connected to the ECO FLO power supply

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

Logger COMMENT BY mcotter: Sun May 17 22:59:30 GMT 2026

Log closed

ONSITE STAFF: mcotter

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