
Mauna Loa Solar Observatory Observer's Log

Fri Jul 03 16:55:58 GMT 2026

Year:26 Doy:184

Observer: mcotter

Weather COMMENT BY mcotter: Fri Jul 03 16:58:07 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-03 16:53:00

Temperature : 49.98 deg F

Dew Point : -3.5 deg F

Pressure : 679.39 mbar

Wind Speed : 0.67 mph

Wind Direction : 329.3 deg

Skies: Wet misty conditions in the Saddle Valley up to approximately 9,500' elevation. Skies appear fairly clear but a bit bright with the inversion layer visible on the horizon just above Hualalai. No wind.

____end____

GENERAL COMMENT BY mcotter: Fri Jul 03 16:58:14 GMT 2026

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Fri Jul 03 16:58:20 GMT 2026

Dome open

____end____

** KCOR PM mcotter ** : Fri Jul 03 16:58:25 GMT 2026

Blew off Kcor 01

____end____

Fri Jul 03 17:03:38 GMT 2026 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Fri Jul 03 17:08:45 GMT 2026

Kcor:

The Kcor cor instrument is now observing though the sky is slightly bright and some aerosols were visible in the Focus routine. The Focus was manually reset from 133.26 to 134.46.

____end____

** KCOR PROBLEM REPORTED BY mcotter ** : Fri Jul 03 17:24:29 GMT 2026

Kcor circular acquisition error.

Error began at 17:15:26 UT and went to 17:19:44 UT.

Kcor is again observing and the Polarization looks good.

____end____

KCOR COMMENT BY mcotter: Fri Jul 03 17:28:03 GMT 2026

Kcor:

Observations look good, but the sky is a bit bright and aerosols are heavy and prevalent in the images.

____end____

Fri Jul 03 18:17:04 GMT 2026 Report Time: 18:16:40 UTC

Image: 20260703_174409_kcor_l2_nrgf.gif

Obs time: 17:44:09

Launch Time: 18:06

CME Front Height: 1.40 Rs (front)

CME Front Angle: 282.2

East Wing Angle: 265.9

West Wing Angle: 295.4

Angular Width: 29.5

CME Speed: fast

CME Brightness: moderate

Confidence: medium

** GENERAL PROBLEM REPORTED BY mcotter ** : Fri Jul 03 18:23:35 GMT 2026

After using the NRGF CME Viewer to report a CME the program froze up and was not responding. I closed the program and restart it and it opened with no problem and is now running normally.

____end____

Fri Jul 03 19:13:11 GMT 2026 Report Time: 19:12:52 UTC

Image: 20260703_190805_kcor_l2_nrgf.gif

Obs time: 19:08:05

CME Front Height: 1.50 Rs (front)

CME Front Angle: 250.4

East Wing Angle: 242.0

West Wing Angle: 264.5

Angular Width: 22.5

CME Speed: moderate

CME Brightness: bright

Confidence: high

Seen in: nrgf

**** GENERAL PROBLEM REPORTED BY mcotter **** : Fri Jul 03 19:37:12 GMT 2026

After reporting a CME on the NRGF CME Viewer the program froze up and crashed. I had to close out the program and reopen to get it operating.

The program seems to be operating normally now, but the CME Launch reports that I am making on the NRGF CME Viewer are not showing up in my email.

____end____

Fri Jul 03 20:03:01 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Fri Jul 03 20:17:58 GMT 2026 KCOR End Calibration Script

**** GENERAL PM mcotter **** : Fri Jul 03 20:37:07 GMT 2026

At 10:00 am HST I noted the input for the Eco Flo Power Supply and the reading were as follows:

Input: Approximately 920 W

Output: Approximately 650 W

As per Ben's previous action on the YETI Power Supply panels earlier this week, I brought the photovoltaic panels for the Eco Flo Power Supply to level with the ground. This has brought the panels more in line with the Sun's current path in the sky. After realigning the Eco Flo Power Supply panels the readings at 10:10 am HST were as follows:

Input: Approximately 1090 W.

Output: Approximately 650 W.

An approximate increase of 18%.

____end____

Weather COMMENT BY mcotter: Fri Jul 03 20:41:04 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-03 20:35:00

Temperature : 54.57 deg F

Dew Point : 35.83 deg F

Pressure : 680.18 mbar

Wind Speed : 9.17 mph

Wind Direction : 320.8 deg

Skies: Orographic clouds have formed and are now rising above the western slope of Maunaloa. The rest of the sky remains clear but aerosols are heavy.

____end____

Weather COMMENT BY mcotter: Fri Jul 03 21:24:51 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-03 21:20:00

Temperature : 52.95 deg F

Dew Point : 36.12 deg F

Pressure : 680.13 mbar

Wind Speed : 6.71 mph

Wind Direction : 18.4 deg

Skies: The sky continues to be clear overhead but aerosols are very high. Orographic clouds are rising up over the eastern and western slopes of Maunaloa and moving toward the observatory.

____end____

Weather COMMENT BY mcotter: Fri Jul 03 21:51:47 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-03 21:47:00

Temperature : 52.86 deg F

Dew Point : 39.57 deg F

Pressure : 680.14 mbar

Wind Speed : 3.36 mph

Wind Direction : 342.3 deg

Skies: Orographic clouds are moving in close from the west, north and east. For now the sky remains clear in the viewing area but aerosols are very high.

____end____

KCOR COMMENT BY mcotter: Fri Jul 03 21:56:31 GMT 2026

Kcor:

The Kcor instrument is now paused due to clouds in the viewing area.

____end____

KCOR COMMENT BY KCOR: Fri Jul 03 22:45:24 GMT 2026

KCOR file transfer report

KCor created 1318 .bin files

1316 .fts files

NOTICE ? 2 .bin file(s) with no matching .fts:

20260703_171959_kcor.bin

20260703_223813_kcor.bin

Remote site is complete ? no rsync required.

____end____

BY mcotter: Fri Jul 03 22:52:35 GMT 2026

End Of Day:

The morning was clear and observations were good.

Two CME launches were reported, but the Dusk computer is being worked upon so the observer initiated CME alerts did not go out on the email notification; I informed Ben of this is happening.

Clouds came into the viewing area at approximately 12:00 PM HST then it got completely overcast at approximately 12:30 PM HST.

Happy Independence Day!!

____end____

Logger COMMENT BY mcotter: Fri Jul 03 22:52:40 GMT 2026

Log closed

ONSITE STAFF: mcotter

____end____