
Mauna Loa Solar Observatory Observer's Log

Mon Jul 27 16:49:16 GMT 2026

Year:26 Doy:208

Observer: mcotter

Weather COMMENT BY mcotter: Mon Jul 27 16:51:10 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-07-27 16:47:00

Temperature : 52.32 deg F

Dew Point : 0.07 deg F

Pressure : 681.41 mbar

Wind Speed : 10.29 mph

Wind Direction : 129.4 deg

Skies: Clear sky in all directions. The air is a bit hazy at lower elevations. The inversion layer is located just below Haleakala.

____end____

GENERAL COMMENT BY mcotter: Mon Jul 27 16:51:40 GMT 2026

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Mon Jul 27 16:51:46 GMT 2026

Dome open

____end____

** KCOR PM mcotter ** : Mon Jul 27 16:51:53 GMT 2026

Blew off Kcor 01

____end____

Mon Jul 27 17:02:31 GMT 2026 Kcor Focus/alignment program exited

KCOR COMMENT BY KCOR: Mon Jul 27 17:04:32 GMT 2026

KCOR file transfer report

KCor created 3 .bin files

3 .fts files

WARNING 3 fts file(s) found locally that was not transferred dawn

ACTION must be taken to copy:

20260727_170302_kcor.fts

20260727_170318_kcor.fts

20260727_170333_kcor.fts

____end____

KCOR COMMENT BY mcotter: Mon Jul 27 17:16:33 GMT 2026

Kcor:

Focus routine run; focus manually set to 134.5 from 133.5.

____end____

** KCOR PROBLEM REPORTED BY mcotter ** : Mon Jul 27 17:30:38 GMT 2026 entry was edited

Kcor circular acquisition error

Error occurred at approximately 17:24:32 UT to approximately 17:26:35 UT. I caught the error as it was happening and quickly stopped the observing program.

____end____

Weather COMMENT BY mcotter: Mon Jul 27 18:56:42 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-07-27 18:47:00

Temperature : 61.0 deg F

Dew Point : -9.6 deg F

Pressure : 681.71 mbar

Wind Speed : 13.65 mph

Wind Direction : 66.8 deg

Skies: The sky is very clear in all directions.

The wind is picking up and continues to be a little gusty blowing from the northeast. The Dew Point is fairly low today and within the observatory static electricity is quite noticeable and static shocks have been felt several times today moving around the observatory.

____end____

GENERAL COMMENT BY mcotter: Mon Jul 27 19:06:18 GMT 2026

Due to the moderately gusty wind conditions I have closed the dome windows and the lower dome shutter at this time to inhibit unwanted shake on the instrument and spar.

____end____

Mon Jul 27 20:00:46 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Mon Jul 27 20:24:15 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

** KCOR PROBLEM REPORTED BY mcotter ** : Mon Jul 27 20:30:40 GMT 2026

Kcor circular acquisition error during a calibration procedure:

During the calibration there was an acquisition error due to the lack of available storage space on drive E, so space was cleared on the E drive and the observing code and Socket Cam program was restarted.

The observing code was run for a few minutes, then the calibration procedure was restarted.

So far so good and the system appears to be running properly.

____end____

Mon Jul 27 20:39:12 GMT 2026 KCOR End Calibration Script

Weather COMMENT BY mcotter: Mon Jul 27 22:40:21 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-27 22:28:00

Temperature : 65.57 deg F

Dew Point : -0.04 deg F

Pressure : 681.97 mbar

Wind Speed : 12.53 mph

Wind Direction : 63.0 deg

Skies: The sky continues to be very clear in all directions. Aerosols are increasing, as can be seen in the images, but they are not too bad at this time and don't appear to be having a discernible effect on the observations at this time.

The wind continues to be elevated and gusty, primarily blowing out of the east-northeast.

____end____

GENERAL COMMENT BY mcotter: Mon Jul 27 23:05:14 GMT 2026

When the spar and instrument passed zenith we manually rotated the dome 180 degrees so that the open dome slit is now facing to the west; this was done so as to keep the early gusty winds effects on our observing to a minimum.

____end____

** GENERAL PROBLEM REPORTED BY mcotter ** : Tue Jul 28 00:38:43 GMT 2026

Internet down:

At approximately 13:18 HST there was a power glitch on the output of the Yeti Power Unit. The output power dropped out and it caused the network to go down for a brief period of time. The first obvious thing that happened is that the Kcor computer screen disappeared and the KVM computer Log In page appeared on the screen. After putting in the User Name and Password for the KVM computer we were able to once again select the Kcor computer screen in order to start issuing commands. On the Kcor computer screen there was an error GUI that appeared advising us that Kcor lost the SGS connection. The observing screen was still on, so the program was briefly stopped then restarted in order to re-establish the connection between the Kcor observing code and the SGS. The Global Connect connections had dropped out for both the Kcor and Wahoo 2 computers, so both connections were re-established.

After getting everything running again I checked the Grafana web page that Ben set up displaying GUI's showing graphs of the Eco Flo and Yeti Power Units input/output power and battery power level status. The displays show when the glitch occurred and may be associated with the fact that the Yeti Power Unit is now fully charged at 100% battery capacity.

____end____

Weather COMMENT BY mcotter: Tue Jul 28 00:46:17 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-28 00:35:00

Temperature : 66.15 deg F

Dew Point : 9.73 deg F

Pressure : 681.48 mbar

Wind Speed : 15.21 mph

Wind Direction : 51.5 deg

Skies: Though the sky remains mostly clear there are now some Orographic clouds starting to come over the southern and western slopes of Maunaloa.

The wind speed continues to increase and is very gusty from the northeast.

Aerosols have continued to increase but so far do not seem to be effecting the image quality adversely.

____end____

** KCOR PROBLEM REPORTED BY mcotter ** : Tue Jul 28 00:58:45 GMT 2026

Kcor:

Though the Kcor observing program seemed to be running okay, it appeared that the Socketcam Command Window data was hung up and not updating. The information on the Update-Data and the Kcor NRGF Command Windows was updating and read out properly, so I am unsure why this anomaly would take place. I stopped and restarted the observing program and both the Kcor Synoptic GUI and the Socketcam Command Window appear to be running correctly.

____end____

Tue Jul 28 01:24:55 GMT 2026 Report Time: 01:24:27 UTC

Image: 20260727_234600_kcor_l2_nrgf.gif

Obs time: 23:46:00

Launch Time: 23:46:00 UT

CME Front Height: 2.00 Rs (front)

CME Front Angle: 55.4

East Wing Angle: 54.9

West Wing Angle: 61.9

Angular Width: 7.0

CME Speed: moderate

CME Brightness: faint

Confidence: medium

Seen in: nrgf

KCOR COMMENT BY mcotter: Tue Jul 28 02:08:24 GMT 2026

Kcor:

Images started getting bright. Observations stopped for the day.

____end____

KCOR COMMENT BY KCOR: Tue Jul 28 02:11:21 GMT 2026

KCOR file transfer report

KCor created 2116 .bin files

2108 .fts files

NOTICE ? 8 .bin file(s) with no matching .fts:

20260727_172517_kcor.bin

20260727_201056_kcor.bin

20260727_201229_kcor.bin

20260727_201352_kcor.bin

20260727_202107_kcor.bin

20260727_234932_kcor.bin

20260728_004725_kcor.bin

20260728_020834_kcor.bin

WARNING 34 fts file(s) found locally that was not transferred dawn

ACTION must be taken to copy:

20260727_170348_kcor.fts

20260727_170403_kcor.fts

20260727_170418_kcor.fts

20260727_170433_kcor.fts

20260727_170449_kcor.fts

20260727_170504_kcor.fts

20260727_170519_kcor.fts

20260727_170534_kcor.fts

20260727_170549_kcor.fts

20260727_200638_kcor.fts

20260727_200653_kcor.fts

20260727_200708_kcor.fts

20260727_200724_kcor.fts
20260727_200739_kcor.fts
20260727_200754_kcor.fts
20260727_200809_kcor.fts
20260727_200824_kcor.fts
20260727_200839_kcor.fts
20260727_200855_kcor.fts
20260727_200910_kcor.fts
20260727_200925_kcor.fts
20260727_200940_kcor.fts
20260727_200955_kcor.fts
20260727_201010_kcor.fts
20260727_201026_kcor.fts
20260727_201041_kcor.fts
20260727_233809_kcor.fts
20260727_233824_kcor.fts
20260727_233840_kcor.fts
20260727_233855_kcor.fts
20260727_233910_kcor.fts
20260727_233925_kcor.fts
20260727_233940_kcor.fts
20260727_233955_kcor.fts

____end____

GENERAL COMMENT BY mcotter: Tue Jul 28 02:20:40 GMT 2026

I forgot to make a log earlier that I connected power to the orange dome ladder battery to charge it this morning and just disconnected the power now at the end of the day.

____end____

GENERAL COMMENT BY mcotter: Tue Jul 28 02:21:24 GMT 2026

End Of Day:

Beautifully clear day to observe.

____end____

Logger COMMENT BY mcotter: Tue Jul 28 02:21:28 GMT 2026

Log closed

ONSITE STAFF: berkey, mcotter

____end____