
Mauna Loa Solar Observatory Observer's Log

Mon Aug 31 16:45:20 GMT 2026

Year:26 Doy:243

Observer: mcotter

Weather COMMENT BY mcotter: Mon Aug 31 16:56:09 GMT 2026 entry was edited

MLSO Current Weather

Timestamp (UTC): 2026-08-31 16:50:00

Temperature : 48.9 deg F

Dew Point : 4.62 deg F

Pressure : 681.11 mbar

Wind Speed : 17.67 mph

Wind Direction : 175.2 deg

Skies: Beautiful clear skies overhead and in all directions. Clouds with fog and drizzle in the Saddle Valley up to approximately 7,500'. Moderately gusty winds out of the south-southeast. A blue gray inversion layer is visible on the horizon just above Hualala i.

____end____

GENERAL COMMENT BY mcotter: Mon Aug 31 16:56:20 GMT 2026

Dome open

____end____

BY mcotter: Mon Aug 31 16:57:33 GMT 2026

Dome window have remained closed at this time due to gusty wind conditions blowing from the south-southeast.

____end____

Mon Aug 31 17:10:28 GMT 2026 Kcor Focus/alignment program exited. Focus range manually changed to 134.5 from 132.4.

KCOR BY mcotter: Mon Aug 31 17:14:42 GMT 2026

Kcor:

The Sun came up over the dome sill at approximately 07:08 HST.

The Kcor instrument is now observing and synoptic images look good.

____end____

Weather COMMENT BY mcotter: Mon Aug 31 17:22:24 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-08-31 17:17:00

Temperature : 52.65 deg F

Dew Point : 4.53 deg F

Pressure : 681.35 mbar

Wind Speed : 15.21 mph

Wind Direction : 165.8 deg

Skies: Aerosols appear to be heavy and are noticeable in the Level 0 images.

____end____

** KCOR PROBLEM REPORTED BY mcotter ** : Mon Aug 31 18:19:00 GMT 2026

Kcor circular acquisition error.

I don't believe much data got through the pipeline, as I caught the error early and quickly reset the observing program.

The error appeared at approximately 180825 UT to 181019 UT.

____end____

Weather COMMENT BY mcotter: Mon Aug 31 19:38:01 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-08-31 19:14:00

Temperature : 62.42 deg F

Dew Point : -4.32 deg F

Pressure : 681.99 mbar

Wind Speed : 10.74 mph

Wind Direction : 79.5 deg

Skies: Most of the sky is beautifully clear, but some Cirrus clouds are visible on the west, southwest and southeast horizons.

____end____

Mon Aug 31 19:47:59 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Mon Aug 31 20:02:56 GMT 2026 KCOR End Calibration Script

** GENERAL PROBLEM REPORTED BY mcotter ** : Mon Aug 31 20:20:14 GMT 2026

Internet down:

Internet went down at approximately 10:12 HST.

I walked down and spoke with a NOAA representative and they told me that the power had been momentarily interrupted, but the power has now been restored.

____end____

GENERAL COMMENT BY mcotter: Mon Aug 31 20:22:13 GMT 2026

Internet:

The connection to the internet is now back on.

____end____

Weather COMMENT BY mcotter: Mon Aug 31 20:57:28 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-08-31 20:47:00

Temperature : 64.9 deg F

Dew Point : 2.41 deg F

Pressure : 681.92 mbar

Wind Speed : 11.41 mph

Wind Direction : 73.0 deg

Skies: The sky overhead continues to remain very clear, but aerosols have increase substantially are quite visible in the various images.

Cirrus clouds continue to increase on the west, southwest and southeast horizons, with the clouds to the west and southwest appearing to be heading in the general direction of the observatory.

____end____

Weather COMMENT BY mcotter: Mon Aug 31 21:58:36 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-08-31 21:50:00

Temperature : 65.52 deg F

Dew Point : 6.49 deg F

Pressure : 681.78 mbar

Wind Speed : 14.32 mph

Wind Direction : 76.6 deg

Skies: The sky remains quite clear above and in the viewing area, though aerosols have continued to increase are prevalent in the various images.

The wind continues to be gusty at times, blowing from the east-northeast.

____end____

GENERAL COMMENT BY mcotter: Mon Aug 31 22:05:30 GMT 2026

Due to the gusty wind conditions I have closed the lower dome shutter.

____end____

Weather COMMENT BY mcotter: Mon Aug 31 22:30:36 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-08-31 22:23:00

Temperature : 66.88 deg F

Dew Point : 8.91 deg F

Pressure : 681.54 mbar

Wind Speed : 14.32 mph

Wind Direction : 71.1 deg

Skies: Orographic clouds are starting to come up over the slopes of Maunaloa to the south and west..

Cirrus clouds are increasing to the west and are now visible on the southern horizon.

The wind continues to be gusty and appears to be increasing.

____end____

GENERAL COMMENT BY mcotter: Mon Aug 31 22:38:22 GMT 2026

I tried manually rotating the dome, so that the dome slit faces away from the prevailing easterly winds, but the pointing of the spar has not quite traversed the sky far enough past zenith to allow for this. In doing this I clipped the Kcor light path for a bri

ef moment.

I will attempt to manually rotate the dome slit away from the prevailing winds when the spar gets further past zenith.

____end____

Weather COMMENT BY mcotter: Mon Aug 31 23:18:25 GMT 2026 entry was edited

MLO Current Weather

Timestamp (UTC): 2026-08-31 23:08:00

Temperature : 63.27 deg F

Dew Point : 36.27 deg F

Pressure : 681.32 mbar

Wind Speed : 4.25 mph

Wind Direction : 315.7 deg

Skies: Patches of Cirrus clouds are now present overhead and appear scattered across broad areas of the sky from overhead to the north, west and south. Additionally Orographic clouds are also increasing to the northwest and southwest.

The wind has dropped off significantly at this time.

____end____

KCOR COMMENT BY mcotter: Mon Aug 31 23:19:55 GMT 2026

Kcor:

Kcor observations have been paused at this time due to poor sky conditions.

____end____

KCOR COMMENT BY KCOR: Mon Aug 31 23:42:07 GMT 2026

KCOR file transfer report

KCor created 1424 .bin files

1424 .fts files

WARNING 40 fts file(s) found locally that was not transfered dawn

ACTION must be taken to copy:

20260831_201010_kcor.fts

20260831_201025_kcor.fts

20260831_201041_kcor.fts

20260831_201056_kcor.fts

20260831_201111_kcor.fts

20260831_201126_kcor.fts

20260831_201141_kcor.fts

20260831_201157_kcor.fts

20260831_201212_kcor.fts

20260831_201227_kcor.fts

20260831_201242_kcor.fts

20260831_201257_kcor.fts

20260831_201312_kcor.fts

20260831_201328_kcor.fts

20260831_201343_kcor.fts

20260831_201358_kcor.fts

20260831_201413_kcor.fts

20260831_201428_kcor.fts

20260831_201443_kcor.fts

20260831_201459_kcor.fts

20260831_201514_kcor.fts

20260831_201529_kcor.fts

20260831_201544_kcor.fts

20260831_201559_kcor.fts

20260831_201614_kcor.fts

20260831_201630_kcor.fts

20260831_201645_kcor.fts

20260831_201700_kcor.fts

20260831_201715_kcor.fts

20260831_201730_kcor.fts

20260831_201745_kcor.fts

20260831_201801_kcor.fts

20260831_201816_kcor.fts

20260831_201831_kcor.fts

20260831_201846_kcor.fts

20260831_201901_kcor.fts

20260831_201916_kcor.fts
20260831_201932_kcor.fts
20260831_201947_kcor.fts
20260831_202002_kcor.fts

____end____

KCOR COMMENT BY mcotter: Tue Sep 01 00:06:24 GMT 2026

Kcor:

Kcor was stopped due to poor sky conditions.

While the Kcor instrument was down I took the opportunity to run the kcor_daily_check program. Normally this operation does not take long, perhaps 30 seconds. Shortly after starting the program it got hung up and the command window froze. After waiting a couple of minutes I manually closed the window and ran the catchup-kcor-transfer program. This program seemed to run fine and when it was done I closed it when prompted using the "Enter" command.

____end____

KCOR COMMENT BY mcotter: Tue Sep 01 00:07:57 GMT 2026 entry was edited

Kcor:

I have restarted the Kcor program at this time. The sky appears a little bright, but the synoptic images look acceptable.

____end____

Tue Sep 01 00:13:20 GMT 2026 Kcor Focus/alignment program exited

Tue Sep 01 00:17:43 GMT 2026 Kcor Focus/alignment program exited

KCOR BY mcotter: Tue Sep 01 00:22:46 GMT 2026

Kcor:

After restarting the Kcor instrument I thought that the synoptic images showed a bit of a light bias between the coronal ring and the occulter, but when looking at it in the Focus routine it looked fine.

The Kcor instrument is again observing, though the sky is a bit bright and the aerosols are very high.

____end____

Tue Sep 01 00:35:12 GMT 2026 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Tue Sep 01 00:40:00 GMT 2026

Kcor:

The initial NRGF that came through after restart were very washed out and appeared a bit blurry.

I stopped observing and ran the Auto-Focus routine to see if it would improve the NRGF images. The focus is now set to 133.4, as per the auto focus reading.

____end____

KCOR COMMENT BY mcotter: Tue Sep 01 00:58:29 GMT 2026 entry was edited

Kcor:

Clouds continue to periodically appear in the viewing area, prompting me to stop and restart the instrument observing.

Of note is that the Socketcam continues to be problematic and does not react smoothly to when the observing program GUI is stopped.

____end____

** KCOR PROBLEM REPORTED BY mcotter ** : Tue Sep 01 01:00:19 GMT 2026 entry was edited

Kcor circular acquisition error.

It appears to have started at approximately 005357 UT to 005840 UT.

____end____

Weather COMMENT BY mcotter: Tue Sep 01 01:03:45 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-09-01 00:59:00

Temperature : 61.63 deg F

Dew Point : 47.8 deg F

Pressure : 680.77 mbar

Wind Speed : 10.96 mph

Wind Direction : 337.5 deg

Skies: Orographic clouds are starting to encroach on the observatory area.

Aerosols are very high.

____end____

KCOR COMMENT BY mcotter: Tue Sep 01 01:11:06 GMT 2026

Kcor:

Kcor observations have been stopped due to poor sky conditions.

____end____

KCOR COMMENT BY KCOR: Tue Sep 01 02:08:49 GMT 2026

KCOR file transfer report

KCor created 1620 .bin files

1620 .fts files

WARNING 2 fts file(s) found locally that was not transfered dawn

ACTION must be taken to copy:

20260831_235413_kcor.fts

20260831_235428_kcor.fts

____end____

GENERAL COMMENT BY mcotter: Tue Sep 01 02:38:05 GMT 2026

End Of Day:

Beautiful day to observe, though aerosols got heavy by late morning/early afternoon, then clouds degraded sky conditions in the early afternoon.

____end____

Logger COMMENT BY mcotter: Tue Sep 01 02:38:11 GMT 2026

Log closed

ONSITE STAFF: mcotter

____end____