
Mauna Loa Solar Observatory Observer's Log

Mon Jul 06 16:29:31 GMT 2026

Year:26 Doy:187

Observer: mcotter

Weather COMMENT BY mcotter: Mon Jul 06 16:37:34 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-06 16:32:00

Temperature : 47.86 deg F

Dew Point : -4.47 deg F

Pressure : 680.52 mbar

Wind Speed : 7.61 mph

Wind Direction : 244.7 deg

Skies: Nice clear morning with little wind. The inversion layer is visible on the horizon just above Hualalai.

____end____

GENERAL COMMENT BY mcotter: Mon Jul 06 16:37:39 GMT 2026

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Mon Jul 06 16:37:46 GMT 2026

Dome open

____end____

** KCOR PM mcotter ** : Mon Jul 06 16:38:35 GMT 2026

Blew off Kcor 01

____end____

Mon Jul 06 16:56:18 GMT 2026 Kcor Focus/alignment program exited

Mon Jul 06 17:38:11 GMT 2026 Report Time: 17:37:34 UTC

Image: 20260706_171600_kcor_l2_nrgf.gif

Obs time: 17:16:00

Launch Time: 17:16:00

CME Front Height: 1.50 Rs (front)

CME Front Angle: 253.6

East Wing Angle: 246.4

West Wing Angle: 258.6

Angular Width: 12.2

CME Speed: fast

CME Brightness: faint

Confidence: low

Seen in: nrgf

Observer Comment: Very faint CME in west-southwest quadrant.

** KCOR PM mcotter ** : Mon Jul 06 17:53:23 GMT 2026

Blew off Kcor Field Lens:

There appears to be a small a couple of artifacts in the NRGF image, so I blew off the Kcor 01 to see if it may alleviate the issue.

____end____

Weather COMMENT BY mcotter: Mon Jul 06 18:14:22 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-06 18:11:00

Temperature : 54.7 deg F

Dew Point : -0.36 deg F

Pressure : 680.87 mbar

Wind Speed : 5.14 mph

Wind Direction : 324.9 deg

Skies: The skies remain very clear and so far the aerosols remain low.

____end____

Mon Jul 06 19:02:27 GMT 2026 Report Time: 19:00:20 UTC

Image: 20260706_184802_kcor_l2_nrgf.gif

Obs time: 18:48:02

CME Front Height: 1.61 Rs (front)

CME Front Angle: 272.3
East Wing Angle: 248.0
West Wing Angle: 293.3
Angular Width: 45.3
CME Speed: moderate
CME Brightness: moderate
Confidence: high
Seen in: nrgf

Weather COMMENT BY mcotter: Mon Jul 06 19:22:14 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-06 19:17:00

Temperature : 56.79 deg F

Dew Point : -0.36 deg F

Pressure : 681.19 mbar

Wind Speed : 6.04 mph

Wind Direction : 303.9 deg

Skies: Skies remain clear, but aerosols are increasing.

____end____

Weather COMMENT BY mcotter: Mon Jul 06 19:59:54 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-06 19:56:00

Temperature : 57.6 deg F

Dew Point : 0.9 deg F

Pressure : 681.28 mbar

Wind Speed : 8.95 mph

Wind Direction : 0.7 deg

Skies: The skies remain clear, though aerosols are increasing.

____end____

Mon Jul 06 20:00:23 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Mon Jul 06 20:15:17 GMT 2026 KCOR End Calibration Script

BY mcotter: Mon Jul 06 21:03:27 GMT 2026

MLSO mountain scripts moved to point at mahi and corona2 instead of dawn. We still need to test the end of day email and cme email.

____end____

Weather COMMENT BY mcotter: Mon Jul 06 21:47:50 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-06 21:38:00

Temperature : 58.71 deg F

Dew Point : 16.57 deg F

Pressure : 681.08 mbar

Wind Speed : 8.28 mph

Wind Direction : 273.6 deg

Skies: The sky remains clear but, but aerosols have increase dramatically and are now quite prevalent in the images.

____end____

Weather COMMENT BY mcotter: Mon Jul 06 22:24:57 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-06 22:14:00

Temperature : 58.86 deg F

Dew Point : 13.96 deg F

Pressure : 680.93 mbar

Wind Speed : 13.2 mph

Wind Direction : 346.5 deg

Skies: The sky remains clear, but the aerosols have increased dramatically. Aerosols are quite visible in the images. The wind has picked up and is blowing stronger from west

____end____

Mon Jul 06 23:23:59 GMT 2026 Kcor Focus/alignment program exited

KCOR BY mcotter: Mon Jul 06 23:36:48 GMT 2026

Kcor:

The NRGF images are appearing extremely grainy from the excessive aerosols that are currently present in the air. I re-ran the Focus routine to see if I could get an improvement in the images.

I cannot detect much of an improvement as yet.

____end____

Weather COMMENT BY mcotter: Tue Jul 07 00:00:29 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-06 23:56:00

Temperature : 58.42 deg F

Dew Point : 23.92 deg F

Pressure : 680.63 mbar

Wind Speed : 13.87 mph

Wind Direction : 20.0 deg

Skies: Skies remain clear but aerosols remain heavy. Orographic clouds are just beginning to make their way up over the eastern slope of Maunaloa.

____end____

KCOR COMMENT BY KCOR: Tue Jul 07 00:38:37 GMT 2026

KCOR file transfer report

KCor created 1793 .bin files

1791 .fts files

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

20260706_232022_kcor.bin

20260707_003409_kcor.bin

WARNING 1 fts file(s) found locally that was not transferred dawn

ACTION must be taken to copy:

20260706_205629_kcor.fts

____end____

Tue Jul 07 01:07:06 GMT 2026 Kcor Focus/alignment program exited

** Guider/spar PROBLEM REPORTED BY mcotter ** : Tue Jul 07 01:17:12 GMT 2026

The synoptic images turned white and the SGS traces dropped off. I put the dark shutter in the beam and went to the dome thinking that perhaps the dome had clipped the observing area. When I got to the dome I could hear the RA Mechanism make an audible click about once every thirty to forty seconds. I thought that perhaps the RA needed to be adjusted. To preserve power while I was working on the RA Mechanism I turned off the Kcor and SGS computers. Prior to making any adjustments to the RA Mechanism I wanted to manually move the spar through its RA range of motion to see how it felt. When doing this I immediately noticed that the cables that run along the spars west face were getting caught up and pinched when the spar tried to follow the Sun's movement low into the western sky. I redressed the cables along the spars west face and started the SGS again. It is now running smoothly with no issues.

I have restarted the Kcor computer and the instrument is again observing.

____end____

GENERAL COMMENT BY mcotter: Tue Jul 07 02:11:21 GMT 2026

Eco Flo readings are as follows:

Input at this time is approximately 700 W.

Output at this time is approximately 700 W.

The battery is at approximately 71 %.

____end____

KCOR COMMENT BY KCOR: Tue Jul 07 02:13:31 GMT 2026

KCOR file transfer report

KCor created 2046 .bin files

2043 .fts files

NOTICE ? 3 .bin file(s) with no matching .fts:

20260706_232022_kcor.bin

20260707_003409_kcor.bin

20260707_021208_kcor.bin

Remote site is complete ? no rsync required.

____end____

BY mcotter: Tue Jul 07 02:26:50 GMT 2026

Dome closed.

Windows closed.

____end____

GENERAL COMMENT BY mcotter: Tue Jul 07 02:28:41 GMT 2026

End Of Day:

Good day for observing; nice weather and clear skies all day, but aerosols did get heavy at times.

____end____

Logger COMMENT BY mcotter: Tue Jul 07 02:28:49 GMT 2026

Log closed

ONSITE STAFF: berkey, mcotter

____end____