
Mauna Loa Solar Observatory Observer's Log

Tue Jul 07 16:23:41 GMT 2026

Year:26 Doy:188

Observer: mcotter

Weather COMMENT BY mcotter: Tue Jul 07 16:26:27 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-07 16:20:00

Temperature : 48.34 deg F

Dew Point : -26.48 deg F

Pressure : 679.51 mbar

Wind Speed : 11.18 mph

Wind Direction : 152.8 deg

Skies: Skies appear mostly clear but there are some strands of Cirrocumulus clouds visible on the horizon to the west and north. Very dense fog with rain and drizzle in the Saddle Valley up to approximately 9,500' elevation. Light wind from the southeast.

____end____

GENERAL COMMENT BY mcotter: Tue Jul 07 16:37:28 GMT 2026

Dome open

____end____

GENERAL COMMENT BY mcotter: Tue Jul 07 16:37:37 GMT 2026

Opened windows upstairs

____end____

** KCOR PM mcotter ** : Tue Jul 07 16:37:45 GMT 2026

Blew off Kcor 01

____end____

Tue Jul 07 16:49:32 GMT 2026 Kcor Focus/alignment program exited

Tue Jul 07 16:56:37 GMT 2026 Kcor Focus/alignment program exited

KCOR BY mcotter: Tue Jul 07 17:00:27 GMT 2026

Kcor:

The sky is a little bright but not too bad; the Kcor instrument is now observing.

____end____

Weather COMMENT BY mcotter: Tue Jul 07 17:07:13 GMT 2026

Skies: Cirrostratus clouds are increasing in the west, but so far they appear to be moving in a northeasterly direction. Some aerosols are visible in the Level 0 and NRGF images.

____end____

KCOR COMMENT BY mcotter: Tue Jul 07 17:19:08 GMT 2026

Kcor:

The Kcor synoptic images are getting a little brighter. When looking out I cannot see anything in the sky but there may be some thin wisps of Cirrus accounting for this. The images do not look bad, but it is an item that will need to be monitored. The previously reported clouds that are increasing in the west are continuing to move in a northeasterly direction.

____end____

KCOR COMMENT BY mcotter: Tue Jul 07 17:33:59 GMT 2026

Unfortunately the bands of Cirrostratus from the west have increased and are now moving in a easterly direction and have moved into the viewing area.

Kcor paused due to poor sky conditions.

____end____

Weather COMMENT BY mcotter: Tue Jul 07 17:53:38 GMT 2026

Skies: The wisps of clouds that made their way into the viewing area a beginning to disperse. There do remain some clouds in the vicinity but they are currently not directly in the viewing area.

Kcor is again observing.

____end____

Weather COMMENT BY mcotter: Tue Jul 07 19:17:32 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-07 19:14:00

Temperature : 58.55 deg F

Dew Point : -18.36 deg F

Pressure : 680.66 mbar
Wind Speed : 7.61 mph
Wind Direction : 70.3 deg

Skies: A very thin layer of Cirrostratus clouds have moved in and it is now in the viewing area.

____end____

KCOR COMMENT BY mcotter: Tue Jul 07 19:19:12 GMT 2026

Kcor:

A thin layer of Cirrostratus clouds have formed in the viewing area.
Due to poor sky conditions the Kcor instrument has been paused.

____end____

KCOR BY mcotter: Tue Jul 07 19:47:43 GMT 2026

Kcor:

I was hoping that the thin layer of clouds that moved into the viewing area may have been short lived, but the clouds have become prevalent across much of the sky and it does not appear that they are going anywhere at this time. I will continue to closely monitor the sky conditions to see if we may get a break in the clouds.

The Kcor observing program has been stopped.

____end____

Weather COMMENT BY mcotter: Tue Jul 07 20:18:26 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-07 20:11:00

Temperature : 60.35 deg F

Dew Point : -3.53 deg F

Pressure : 680.66 mbar

Wind Speed : 10.51 mph

Wind Direction : 68.3 deg

Skies: The sky has become completely overcast with Cirrostratus clouds and now there is a translucent rainbow halo around the Sun.

____end____

KCOR COMMENT BY KCOR: Tue Jul 07 20:19:37 GMT 2026

KCOR file transfer report

KCor created 655 .bin files

654 .fts files

NOTICE ? 1 .bin file(s) with no matching .fts:

20260707_194250_kcor.bin

Remote site is complete ? no rsync required.

____end____

GENERAL COMMENT BY mcotter: Tue Jul 07 20:22:32 GMT 2026

Because of poor sky conditions no observation can be done at this time.

In the event the sky does clear I have shut down the Kcor computer to preserve power.

____end____

KCOR COMMENT BY KCOR: Tue Jul 07 21:08:06 GMT 2026

KCOR file transfer report

KCor created 655 .bin files

654 .fts files

NOTICE ? 1 .bin file(s) with no matching .fts:

20260707_194250_kcor.bin

Remote site is complete ? no rsync required.

____end____

Tue Jul 07 21:14:20 GMT 2026 Kcor Focus/alignment program exited

Weather COMMENT BY mcotter: Tue Jul 07 21:17:03 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-07 21:11:00

Temperature : 56.48 deg F

Dew Point : 34.28 deg F

Pressure : 680.6 mbar

Wind Speed : 8.5 mph

Wind Direction : 344.3 deg

Skies: The sky is still bright but the clouds have burned off.

____end____

KCOR COMMENT BY mcotter: Tue Jul 07 21:18:19 GMT 2026

Kcor:

The sky remains bright and aerosols are very heavy, but the Kcor instrument is again observing and the synoptic images look good.

____end____

Tue Jul 07 21:32:51 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Tue Jul 07 21:47:48 GMT 2026 KCOR End Calibration Script

Weather COMMENT BY mcotter: Tue Jul 07 21:55:39 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-07 21:50:00

Temperature : 57.99 deg F

Dew Point : 41.69 deg F

Pressure : 680.64 mbar

Wind Speed : 12.53 mph

Wind Direction : 331.1 deg

Skies: Orographic clouds are moving up from the north and west.

____end____

Tue Jul 07 22:11:36 GMT 2026 Report Time: 22:10:51 UTC

Image: 20260707_215012_kcor_l2_nrgf.gif

Obs time: 21:50:12

Launch Time: 21:50:12

CME Front Height: 1.21 Rs (front)

CME Front Angle: 64.7

East Wing Angle: 57.3

West Wing Angle: 83.7

Angular Width: 26.4

CME Speed: moderate

CME Brightness: bright

Confidence: high

Seen in: nrgf

** KCOR PROBLEM REPORTED BY mcotter ** : Tue Jul 07 22:31:49 GMT 2026

The Kcor synoptic images all turned white, except for the bottom one being black. The Socketcam command window stated that an error had occurred. I suspected that the drive that the socketcam has been sending data to became full again, therefore socket cam had no place to put it's data. I opened the "E" drive and deleted four of the oldest folders of data from April 2026, then I restarted the observing program.

The kcor instrument is now observing again with no issues.

____end____

KCOR COMMENT BY berkey: Tue Jul 07 22:51:25 GMT 2026

Added the animation code user to the cme@ucar.edu google group to allow alerts to start coming from the observers again. While making the edit to the group, the planned future mail sending locations were added to the group, so hopefully when we switch servers again in a few weeks this will be a seamless transition from the cme email side.

____end____

Tue Jul 07 23:09:19 GMT 2026 Report Time: 23:09:04 UTC

Image: 20260707_230203_kcor_l2_nrgf.gif

Obs time: 23:02:03

Launch Time: 22:58:00 UT

CME Front Height: 1.61 Rs (front)

CME Front Angle: 285.9

East Wing Angle: 276.0

West Wing Angle: 296.1

Angular Width: 20.1

CME Speed: fast

CME Brightness: moderate

Confidence: high

Seen in: nrgf

Weather COMMENT BY mcotter: Tue Jul 07 23:23:29 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-07 23:17:00

Temperature : 62.85 deg F

Dew Point : 27.56 deg F

Pressure : 680.22 mbar

Wind Speed : 21.7 mph

Wind Direction : 36.4 deg

Skies: The sky remains clear but the aerosols are high. The windy has pick up quite a bit and is becoming very gusty.

____end____

** KCOR PM mcotter ** : Wed Jul 08 00:14:49 GMT 2026

Blew off Kcor 01.

A bullet hole has appeared in the west side of the NRGF image. I blew off the Kcor 01 lens to see if I could dislodge it.

____end____

KCOR COMMENT BY mcotter: Wed Jul 08 01:13:45 GMT 2026

Kcor:

It looks like the bullet hole that I saw earlier in the west side of the NRGF image was successfully removed.

____end____

KCOR COMMENT BY KCOR: Wed Jul 08 02:13:51 GMT 2026

KCOR file transfer report

KCor created 1820 .bin files

1817 .fts files

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

20260707_194250_kcor.bin

20260707_222249_kcor.bin

20260708_021056_kcor.bin

WARNING 23 fts file(s) found locally that was not transfered dawn

ACTION must be taken to copy:

20260707_221701_kcor.fts

20260707_221716_kcor.fts

20260707_221731_kcor.fts

20260707_221746_kcor.fts

20260707_221801_kcor.fts

20260707_221816_kcor.fts

20260707_221832_kcor.fts

20260707_221847_kcor.fts

20260707_221902_kcor.fts

20260707_221917_kcor.fts

20260707_221932_kcor.fts

20260707_221947_kcor.fts

20260707_222003_kcor.fts

20260707_222018_kcor.fts

20260707_222033_kcor.fts

20260707_222048_kcor.fts

20260707_222103_kcor.fts

20260707_222118_kcor.fts

20260707_222134_kcor.fts

20260707_222149_kcor.fts

20260707_222204_kcor.fts

20260707_222219_kcor.fts

20260707_222234_kcor.fts

____end____

BY mcotter: Wed Jul 08 02:20:22 GMT 2026

End Of Day:

Overall good day to take observations.

Two CME launches observed.

____end____

Logger COMMENT BY mcotter: Wed Jul 08 02:20:30 GMT 2026

Log closed
ONSITE STAFF: mcotter
____end____