
Mauna Loa Solar Observatory Observer's Log

Tue Jul 28 16:47:19 GMT 2026

Year:26 Doy:209

Observer: mcotter

Weather COMMENT BY mcotter: Tue Jul 28 16:49:30 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-28 16:44:00

Temperature : 53.02 deg F

Dew Point : -17.01 deg F

Pressure : 681.09 mbar

Wind Speed : 8.5 mph

Wind Direction : 138.9 deg

Skies: Bright sky with Cirrostratus present in the eastern and southern sky. The inversion layer is a pale blue color and is located below Haleakala. Light breeze from the southeast.

____end____

GENERAL COMMENT BY mcotter: Tue Jul 28 16:49:42 GMT 2026

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Tue Jul 28 16:49:48 GMT 2026

Dome open

____end____

** KCOR PM mcotter ** : Tue Jul 28 16:49:54 GMT 2026

Blew off Kcor 01

____end____

Tue Jul 28 16:59:44 GMT 2026 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Tue Jul 28 16:59:51 GMT 2026

There are currently bands of clouds in the viewing area.

No observations can be done at this time.

____end____

Tue Jul 28 17:29:25 GMT 2026 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Tue Jul 28 17:41:00 GMT 2026

Kcor:

I tried running the observing code and for a brief period it looked acceptable, but unfortunately the Sun rose into a band of Cirrus clouds. The clouds seem to be more concentrated at the lower elevation, so I will try to observe again in ten to fifteen minutes.

____end____

Tue Jul 28 18:11:05 GMT 2026 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Tue Jul 28 18:31:07 GMT 2026

Kcor:

We noticed a small alignment error on the occulter showing the corona ring to be slightly brighter on one side. Ben showed me how to correct for errors of this kind if they become noticeably bad. Due to this correction there is a slight jump on the corona position in the NRGF images at

____end____

GENERAL COMMENT BY mcotter: Tue Jul 28 19:04:53 GMT 2026

The CME Retraction drop down field was identified as not working when an operator prior to today tried to issue a CME retraction in response to an automated email alert that could not be verified by the operator. Ben found that the error was caused by an error in the code that contained the wrong location for the CME alert data. The code has been updated and should now work properly.

____end____

Weather COMMENT BY mcotter: Tue Jul 28 20:00:08 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-28 19:53:00

Temperature : 60.15 deg F

Dew Point : 6.82 deg F

Pressure : 682.36 mbar

Wind Speed : 12.97 mph

Wind Direction : 70.5 deg

Skies: The sky overhead remains very clear with no noticeable aerosols, but there are wisps of Cirrus clouds on the horizon to the east, south and north.

____end____

GENERAL COMMENT BY mcotter: Tue Jul 28 20:04:13 GMT 2026

Due to the winds picking up and starting to get gusty the dome windows have been closed and the lower dome shutter has been closed so as to inhibit spar and instrument shake.

____end____

Tue Jul 28 20:04:36 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Tue Jul 28 20:19:30 GMT 2026 KCOR End Calibration Script

Weather COMMENT BY mcotter: Tue Jul 28 22:01:10 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-28 21:53:00

Temperature : 62.19 deg F

Dew Point : 16.54 deg F

Pressure : 682.36 mbar

Wind Speed : 12.08 mph

Wind Direction : 26.7 deg

Skies: A very thin layer of Cirrostratus clouds has developed and is now covering most of the sky. Thin wisps of Cirrus clouds are scattered around the horizon in all directions, with some few wisps of clouds sporadically passing through the observing area.

____end____

KCOR COMMENT BY mcotter: Tue Jul 28 22:15:00 GMT 2026

Kcor:

High thin Cirrostratus clouds have been present for much of the latter morning, but surprisingly the images continued to look relatively good. Infrequently a band of Cirrus cloud would pass through the observing area causing momentary brightness to the images that quickly passed.

The Cirrostratus clouds are now increased substantially and covering the observing area.

Due to deteriorating sky conditions Kcor observations have been stopped at this time.

____end____

Tue Jul 28 22:37:18 GMT 2026 Kcor Focus/alignment program exited

Tue Jul 28 22:40:15 GMT 2026 KCOR Start Synoptic Patrol

Tue Jul 28 22:40:16 GMT 2026 KCOR End Patrol

KCOR COMMENT BY KCOR: Tue Jul 28 23:27:56 GMT 2026

KCOR file transfer report

KCor created 1031 .bin files

1028 .fts files

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

20260728_173508_kcor.bin

20260728_221157_kcor.bin

20260728_224135_kcor.bin

Remote site is complete ? no rsync required.

____end____

KCOR COMMENT BY mcotter: Tue Jul 28 23:30:00 GMT 2026

Updated the kcor shutter control code to make connections to the controller more robust after starting and stopping the mc4u software.

We were getting periodic issues where restarting the mc4u gave an error because it was trying to use a stale handle the hardware. This seems to address that.

____end____

Weather COMMENT BY mcotter: Tue Jul 28 23:40:02 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-28 23:35:00

Temperature : 59.92 deg F

Dew Point : 29.37 deg F

Pressure : 682.04 mbar

Wind Speed : 8.72 mph

Wind Direction : 10.3 deg

Skies: The sky is now completely overcast with Cirrostratus clouds, with long trails of Cirrus clouds dispersed across much of the sky. Orographic clouds are coming over the southern and western slopes of Maunaloa.

____end____

GENERAL COMMENT BY mcotter: Tue Jul 28 23:45:58 GMT 2026

Due to the deteriorating sky conditions observations have been stopped for the day.

The dome is closed and the spar is parked.

The SGS and Kcor computers have been powered down.

____end____

BY mcotter: Wed Jul 29 01:20:26 GMT 2026

End Of Day:

Good observing in the morning with clouds in the early afternoon.

____end____

Logger COMMENT BY mcotter: Wed Jul 29 01:20:28 GMT 2026

Log closed

ONSITE STAFF: berkey, mcotter

____end____