
Mauna Loa Solar Observatory Observer's Log

Sat Jul 18 16:44:40 GMT 2026

Year:26 Doy:199

Observer: mcotter

Weather COMMENT BY mcotter: Sat Jul 18 16:46:56 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-18 16:41:00

Temperature : 47.26 deg F

Dew Point : 21.22 deg F

Pressure : 681.74 mbar

Wind Speed : 7.16 mph

Wind Direction : 200.1 deg

Skies: There is Cirrus clouds scattered across much of the sky. The inversion layer is a dark blue color and is located just above Hualalai in the horizon.

____end____

GENERAL COMMENT BY mcotter: Sat Jul 18 16:47:05 GMT 2026

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Sat Jul 18 16:47:12 GMT 2026

Dome open

____end____

** KCOR PM mcotter ** : Sat Jul 18 16:47:21 GMT 2026

Blew off Kcor 01

____end____

GENERAL COMMENT BY mcotter: Sat Jul 18 16:49:03 GMT 2026

Though the sky does appear to be bright and does have some Cirrus present I have opened the dome and aligned the instrument in the event there is some clear sky to observe th rough.

____end____

Sat Jul 18 17:00:26 GMT 2026 Kcor Focus/alignment program exited

KCOR BY mcotter: Sat Jul 18 17:05:15 GMT 2026

Kcor:

Though the sky is a little bright the focus and synoptic images look good and the Kcor instrument in now observing.

There still remains bands of Cirrus clouds in patches across the sky, but hopefully the se clouds will burn off as the Sun rises.

____end____

GENERAL COMMENT BY mcotter: Sat Jul 18 17:10:08 GMT 2026

The ILX was reading 32.5 when I came in this morning. It is now just getting above 34.0 .

____end____

** KCOR PM mcotter ** : Sat Jul 18 17:21:50 GMT 2026

Blew off Kcor 01:

There is a Bullet hole present in the NRGF images at approximately PA 190 Deg.; so I bl ew off the 01 again to see if it would help.

____end____

GENERAL COMMENT BY mcotter: Sat Jul 18 17:49:23 GMT 2026

The attempt to remove the foreign particle causing the bullet hole at approximately 190 Deg. PA did not work. The bullet hole is located on the furthestmost fringe of the view ing area so it is not effecting the images.

____end____

** KCOR PROBLEM REPORTED BY mcotter ** : Sat Jul 18 17:50:54 GMT 2026

Kcor circular acquisition error:

The polarization is off. Restarting the observing program.

____end____

** KCOR PROBLEM REPORTED BY mcotter ** : Sat Jul 18 17:55:08 GMT 2026

The polarization error occurred at approximately 17:40:43 UT and ended at 17:51:47 UT.

____end____

KCOR COMMENT BY mcotter: Sat Jul 18 17:58:55 GMT 2026

Kcor:

Kcor is again observing with no problem.

____end____

KCOR COMMENT BY mcotter: Sat Jul 18 18:27:50 GMT 2026

Kcor:

The synoptic images are beginning to get a little bright; we may be passing through a band of Cirrus.

____end____

Weather COMMENT BY mcotter: Sat Jul 18 18:37:31 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-18 18:32:00

Temperature : 57.07 deg F

Dew Point : 25.56 deg F

Pressure : 682.51 mbar

Wind Speed : 3.36 mph

Wind Direction : 341.2 deg

Skies: The images show the sky getting very bright, too bright to observe.

____end____

KCOR COMMENT BY mcotter: Sat Jul 18 18:43:57 GMT 2026

Kcor:

The images are getting very bright at this time and it appears that the Sun's location is entering a band of clouds, but when looking outside at the sky where the Sun is currently located nothing discernible can be seen. There must be a very thin layer of Cirrostratus clouds covering the sky where the Sun is now passing. I will continue to try and observe to see if this is a temporary situation, or if the sky has indeed developed a Cirrostratus cloud covering.

____end____

KCOR COMMENT BY mcotter: Sat Jul 18 18:47:13 GMT 2026

Kcor:

Luckily the Sun has passed out of the band of clouds and is now in a clearer area of the sky. The synoptic images continue to be a little bright but certainly acceptable.

____end____

Sat Jul 18 19:45:05 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Sat Jul 18 19:59:58 GMT 2026 KCOR End Calibration Script

Weather COMMENT BY mcotter: Sat Jul 18 21:22:54 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-18 21:17:00

Temperature : 58.53 deg F

Dew Point : 41.09 deg F

Pressure : 682.65 mbar

Wind Speed : 9.4 mph

Wind Direction : 339.4 deg

Skies: Orographic clouds are beginning to encroach into the viewing area at this time.

____end____

KCOR BY mcotter: Sat Jul 18 21:25:28 GMT 2026

Kcor:

Due to Orographic clouds moving up into the viewing area I momentarily paused observing until the clouds dissipated.

Kcor is again observing, but I may need to pause again from time to time in order to dodge the clouds in the viewing area.

____end____

Weather COMMENT BY mcotter: Sat Jul 18 21:27:31 GMT 2026

MLSO Current Weather:

Aerosols have become heavy and are readily appearing in the different observing images.

____end____

Weather COMMENT BY mcotter: Sat Jul 18 22:43:37 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-18 22:38:00

Temperature : 56.53 deg F
Dew Point : 42.5 deg F
Pressure : 682.45 mbar
Wind Speed : 6.71 mph
Wind Direction : 353.2 deg

Skies: The sky has now become mostly overcast with Orographic clouds.

____end____

KCOR BY mcotter: Sat Jul 18 22:49:49 GMT 2026

Kcor:

I was able to observe in between clouds for about an hour, but now the sky has become mostly overcast with Orographic clouds.

The Kcor instrument observing program has been stopped and I will close the dome in the event of rain.

____end____

GENERAL COMMENT BY mcotter: Sat Jul 18 22:54:43 GMT 2026

Dome window have been closed.

Dome now closed.

The Kcor Observing code has been stopped (computer still on).

The spar has been put into "Open Loop" at this time in the event that the clouds disperse and the sky becomes clear enough to observe.

____end____

Weather COMMENT BY mcotter: Sat Jul 18 23:28:42 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-18 23:23:00

Temperature : 54.88 deg F

Dew Point : 48.65 deg F

Pressure : 682.28 mbar

Wind Speed : 14.99 mph

Wind Direction : 2.8 deg

Skies: The sky has become heavily overcast and there are wisps of fog blowing through the observatory area.

____end____

Weather COMMENT BY mcotter: Sun Jul 19 00:41:30 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-19 00:35:00

Temperature : 52.99 deg F

Dew Point : 49.57 deg F

Pressure : 682.16 mbar

Wind Speed : 8.28 mph

Wind Direction : 0.3 deg

Skies: The sky is heavily overcast with dense fog and light drizzle currently moving through the area of the observatory.

____end____

KCOR COMMENT BY KCOR: Sun Jul 19 00:48:43 GMT 2026

KCOR file transfer report

KCor created 1361 .bin files

1359 .fts files

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

20260718_175004_kcor.bin

20260718_224621_kcor.bin

Remote site is complete ? no rsync required.

____end____

Guider/spar COMMENT BY mcotter: Sun Jul 19 00:55:19 GMT 2026

It is unlikely that the weather will clear so the SGS computer has been turned off and the spar parked.

____end____

KCOR BY mcotter: Sun Jul 19 00:57:03 GMT 2026

Kcor:

The Kcor computer and the ILX have been turned off.

____end____

BY mcotter: Sun Jul 19 01:52:53 GMT 2026

End Of Day:

The morning sky was clear for observations until late morning when some clouds began to appear in the observing area. I was able to continue observing by dodging clouds for a while, but eventually the sky became completely overcast.

____end____

Logger COMMENT BY mcotter: Sun Jul 19 01:52:56 GMT 2026

Log closed

ONSITE STAFF: mcotter

____end____