
Mauna Loa Solar Observatory Observer's Log

Sat Jul 25 16:49:56 GMT 2026

Year:26 Doy:206

Observer:

Sat Jul 25 17:02:20 GMT 2026 Kcor Focus/alignment program exited

Weather COMMENT BY : Sat Jul 25 17:06:18 GMT 2026

MLsO Current Weather

Timestamp (UTC): 2026-07-25 16:59:00

Temperature : 54.23 deg F

Dew Point : -5.21 deg F

Pressure : 681.54 mbar

Wind Speed : 14.32 mph

Wind Direction : 144.2 deg

Skies: Clouds, rain and drizzle up to approximately 9,000' elevation. The sky appears fairly clear but the wind is gusty out of the southeast.

____end____

GENERAL COMMENT BY : Sat Jul 25 17:07:02 GMT 2026

Dome open.

Windows remain closed due to gusty wind conditions.

____end____

** KCOR PM ** : Sat Jul 25 17:07:10 GMT 2026

Blew off Kcor Ol

____end____

KCOR BY : Sat Jul 25 17:09:18 GMT 2026

Kcor:

The Kcor instrument is on sky and observing. The sky conditions look good though due to gusty winds windows remain closed and the dome is positioned away from the southeasterly wind.

Initial synoptic images look very good.

____end____

** KCOR PROBLEM REPORTED BY ** : Sat Jul 25 19:34:48 GMT 2026

Kcor circular acquisition error.

Error occurred from approximately 19:19:53 UT to 19:29:45 UT.

____end____

KCOR BY : Sat Jul 25 19:38:28 GMT 2026

Kcor:

The acquisition error has been cleared and the data now looks good again.

____end____

Sat Jul 25 20:07:41 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Sat Jul 25 20:22:35 GMT 2026 KCOR End Calibration Script

** KCOR PROBLEM REPORTED BY ** : Sat Jul 25 20:39:36 GMT 2026

Kcor circular acquisition error.

Error occurred from approximately 20:31:46 UT to 20:35:49 UT.

____end____

KCOR BY : Sat Jul 25 20:44:38 GMT 2026

Kcor:

The acquisition error has been cleared the data now looks good again.

____end____

Weather COMMENT BY : Sat Jul 25 21:21:55 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-25 21:17:00

Temperature : 63.5 deg F

Dew Point : 6.24 deg F

Pressure : 682.52 mbar

Wind Speed : 16.78 mph

Wind Direction : 99.9 deg

Skies: The sky remains quite clear, though some Orographic clouds are beginning to come up from the west. The wind remains quite gusty out of the east.

____end____

GENERAL COMMENT BY : Sat Jul 25 21:24:04 GMT 2026

Due to the current gusty winds coming out of the east I have closed the lower dome shutter to help prevent any wind related shaking of the spar and instrument.

____end____

Sat Jul 25 22:40:36 GMT 2026 Kcor Focus/alignment program exited

KCOR COMMENT BY : Sat Jul 25 22:43:21 GMT 2026

Kcor:

The Kcor NRGF images are getting a little hard to read so I re-ran the focus routine again to see if I could improve upon the focus and thus image quality.

____end____

KCOR BY : Sat Jul 25 23:09:44 GMT 2026

Kcor:

I am not satisfied with how the NRGF images are looking after running the Focus routine this last time. I am going to try running it again. Aerosols are picking up and the sky is growing brighter, but I think that the images could be better.

____end____

Sat Jul 25 23:11:58 GMT 2026 Kcor Focus/alignment program exited

KCOR BY : Sat Jul 25 23:26:14 GMT 2026

After re-running the focus routine the first time, when the NRGF images came up they showed a much darker more clearly defined fringing pattern, particularly in the northeast quadrant of the image.

I have just finished re-running the focus routine a second time, but I ended up manually setting the focus position to 134.46 from the 128.18.

The sky has become much brighter and aerosols have increased quite a bit, as can be seen in the Synoptic, Level 0 and NRGF images.

____end____

** KCOR PROBLEM REPORTED BY ** : Sun Jul 26 00:04:09 GMT 2026

Dome Occulted KCor.

It's the time of year when the Sun's relative position to Earth is going south in the sky, but it still remains fairly far to the north (today is Lahaina Noon day at the MLSO). It can be difficult to get the dome to properly track the Sun's position and whether to set the dome controls to automatically rotate in a CW rotation or in a CCW rotation.

____end____

Weather COMMENT BY : Sun Jul 26 00:07:11 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-26 00:02:00

Temperature : 65.93 deg F

Dew Point : 4.41 deg F

Pressure : 681.8 mbar

Wind Speed : 17.67 mph

Wind Direction : 75.4 deg

Skies: The sky has become very bright and aerosols are quite high.

____end____

GENERAL COMMENT BY : Sun Jul 26 00:10:44 GMT 2026

The synoptic images have become bright. I tried to continue observing but the images are getting poor.

I am going to stop observing for now and wait to see if conditions improve.

____end____

KCOR BY : Sun Jul 26 01:20:47 GMT 2026

Kcor:

I tried putting the instrument back on sky to observe but the sky has become entirely too bright for any observations at this time.

____end____

Weather COMMENT BY : Sun Jul 26 01:40:07 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-07-26 01:32:00

Temperature : 64.98 deg F

Dew Point : 6.13 deg F

Pressure : 681.47 mbar

Wind Speed : 11.63 mph

Wind Direction : 61.2 deg

Skies: The sky continues to be clear but very bright; much too bright to observe. Orographic clouds are beginning to make their way over the southern and western slopes of Maunaloa. The wind is still quite gusty and continues to blow strong out of the east.

____end____

GENERAL COMMENT BY : Sun Jul 26 01:45:23 GMT 2026

Due to the bright sky conditions, the elevated aerosols and the sustained gusty winds I believe it is unlikely that conditions will improve to the point that observations can continue for today. I am going to stop the SGS and Kcor computers and close the dome in an effort to reserve power for tomorrow's observing.

____end____

KCOR COMMENT BY KCOR: Sun Jul 26 01:50:04 GMT 2026

KCOR file transfer report

KCor created 2024 .bin files

2019 .fts files

NOTICE ? 5 .bin file(s) with no matching .fts:

20260725_193046_kcor.bin

20260725_203635_kcor.bin

20260725_223817_kcor.bin

20260725_230738_kcor.bin

20260726_014544_kcor.bin

Remote site is complete ? no rsync required.

____end____

GENERAL COMMENT BY mcotter: Sun Jul 26 02:28:31 GMT 2026

End Of Day:

Good observing in the morning, but the sky became very bright in the afternoon with elevated aerosols. Gusty winds out of the east persisted all day out of the east.

____end____

Logger COMMENT BY mcotter: Sun Jul 26 02:28:39 GMT 2026

Log closed

ONSITE STAFF: mcotter

____end____