
Mauna Loa Solar Observatory Observer's Log

Tue Oct 13 16:36:42 GMT 2026

Year:26 Doy:286

Observer: mcotter

Weather COMMENT BY mcotter: Tue Oct 13 16:44:34 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-10-13 16:32:00

Temperature : 39.94 deg F

Dew Point : 34.49 deg F

Pressure : 679.42 mbar

Wind Speed : 9.17 mph

Wind Direction : 167.3 deg

Skies: The sky is clear above the 11,000' elevation, but there are clouds in every direction just below 11,000'. Very wet conditions in the Saddle Valley with fog, rain and drizzle up to 10,000' elevation. It must have rained very hard at the observatory last night because the area surrounding the observatory is very wet. Moderate wind from the southwest. No discernible inversion layer is visible, just clouds in all directions.

____end____

GENERAL COMMENT BY mcotter: Tue Oct 13 16:53:16 GMT 2026

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Tue Oct 13 16:53:23 GMT 2026

Dome open

____end____

** UCOMP PM mcotter ** : Tue Oct 13 16:53:28 GMT 2026

Blew off UCoMP 01

____end____

** KCOR PM mcotter ** : Tue Oct 13 16:53:36 GMT 2026

Blew off Kcor 01

____end____

Tue Oct 13 17:17:26 GMT 2026 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Tue Oct 13 17:22:07 GMT 2026

Kcor:

Kcor on sky and observing. Initial synoptic images look very good.

____end____

Weather COMMENT BY mcotter: Tue Oct 13 18:35:07 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-10-13 18:29:00

Temperature : 48.31 deg F

Dew Point : 41.28 deg F

Pressure : 680.27 mbar

Wind Speed : 5.59 mph

Wind Direction : 278.6 deg

Skies: The sky remains clear overhead, but Orographic clouds are beginning to come up off the slopes of Maunaloa from the west and south.

____end____

Weather COMMENT BY mcotter: Tue Oct 13 19:15:05 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-10-13 19:11:00

Temperature : 49.68 deg F

Dew Point : 44.02 deg F

Pressure : 680.55 mbar

Wind Speed : 4.47 mph

Wind Direction : 33.8 deg

Skies: Orographic clouds have moved up the slopes of Maunaloa from the east, south and west and are now obstructing the observing viewing area.

____end____

KCOR COMMENT BY mcotter: Tue Oct 13 19:17:16 GMT 2026

Kcor:

Kcor observations have been paused due to poor sky conditions.

The dome remains open for now and the spar continues to track in the event that the clouds dissipate and observations may resume.

____end____

Weather COMMENT BY mcotter: Tue Oct 13 20:02:31 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-10-13 19:59:00

Temperature : 49.17 deg F

Dew Point : 45.65 deg F

Pressure : 680.61 mbar

Wind Speed : 9.4 mph

Wind Direction : 352.3 deg

Skies: Sky conditions have degraded quickly and the sky is now totally overcast.

____end____

GENERAL COMMENT BY mcotter: Tue Oct 13 20:33:45 GMT 2026

Due to very poor sky conditions the dome and dome area windows have been closed at this time.

____end____

KCOR COMMENT BY KCOR: Tue Oct 13 20:42:54 GMT 2026

KCOR file transfer report

KCor created 389 .bin files

389 .fts files

Remote site is complete ? no rsync required.

____end____

Weather COMMENT BY mcotter: Tue Oct 13 21:05:49 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-10-13 21:02:00

Temperature : 48.67 deg F

Dew Point : 42.9 deg F

Pressure : 680.55 mbar

Wind Speed : 5.37 mph

Wind Direction : 358.4 deg

Skies: The sky continues to be heavily overcast with wisps of fog blowing through the area of the observatory.

____end____

GENERAL COMMENT BY mcotter: Wed Oct 14 02:24:04 GMT 2026

Comment:

I started cleaning the Kcor #4-01 Lens, but a small particle of a foreign substance is on the lens that I was not able to get off. I rinsed and washed the lens multiple times and also tried using alcohol to remove the particle but it would not move. It may be necessary to use First Contact on the lens to remove the particle. Overall the lens looks very clean but for the particle. I have left the lens in the cleaning fixture for now ; I did not want to return it to its cradle as there may still be water contained in the voids of the lens frame.

____end____

Logger COMMENT BY mcotter: Wed Oct 14 02:36:42 GMT 2026

Log closed

ONSITE STAFF:

____end____

BY mcotter: Wed Oct 14 02:36:47 GMT 2026

End Of Day:

The morning sky was very clear for some observations, but unfortunately Orographic clouds moved into the area of the observatory by mid morning and the sky quickly became overcast.

NOTE: Andrew said he would like us to note the focus setting after we do the Auto-focus procedure.

NOTE: When the Kcor #4-01 Lens is clean Joan would like us to run a test for her using the #3 Lens and the #4 Lens when the sky appears that it will stay clear for approximately 3 hours. Hold off doing the test if a CME is in progress.

- 1)Observe with the #3 Lens for 45 minutes to 1 hour.
- 2) Run a calibration using the #3 Lens.
- 3) Swap out the #3 Lens for the #4 Lens.
- 4) Run a calibration immediately.
- 5) Observe with the #4 Lens for a minimum of 45 minutes to 1 hour.

If the data looks good with #4 Lens leave the lens in the instrument and continue to observe. If the data does not look good swap out #4 Lens for #3 Lens and clean the #4 Lens again. After the cleaning is complete repeat the test when conditions are good.

____end____