
Mauna Loa Solar Observatory Observer's Log

Mon Sep 14 16:40:33 GMT 2026

Year:26 Doy:257

Observer: mcotter

Weather COMMENT BY mcotter: Mon Sep 14 16:42:52 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-09-14 16:38:00

Temperature : 43.73 deg F

Dew Point : 8.15 deg F

Pressure : 678.6 mbar

Wind Speed : 5.59 mph

Wind Direction : 204.6 deg

Skies: The air appears a little hazy but the skies are beautifully clear in all directions. The inversion layer is visible low on the horizon below Hualalai. Light wind from the southeast.

____end____

GENERAL COMMENT BY mcotter: Mon Sep 14 16:57:09 GMT 2026

Dome open

____end____

GENERAL COMMENT BY mcotter: Mon Sep 14 16:57:17 GMT 2026

Opened windows upstairs

____end____

** UCOMP PM mcotter ** : Mon Sep 14 16:57:23 GMT 2026

Blew off UCoMP 01

____end____

** KCOR PM mcotter ** : Mon Sep 14 16:57:31 GMT 2026

Blew off Kcor 01

____end____

Mon Sep 14 17:10:16 GMT 2026 Kcor Focus/alignment program exited. Focus range manually set to 134.5.

KCOR BY mcotter: Mon Sep 14 17:14:25 GMT 2026

Kcor:

Kcor on sky and observing. Synoptic images look very good.

____end____

Weather COMMENT BY mcotter: Mon Sep 14 17:33:58 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-09-14 17:29:00

Temperature : 47.8 deg F

Dew Point : 13.48 deg F

Pressure : 678.82 mbar

Wind Speed : 1.57 mph

Wind Direction : 352.3 deg

Skies: The sky remains very clear at this time, but aerosols are heavy as can be observed in the different images.

____end____

Mon Sep 14 18:04:30 GMT 2026 Report Time: 18:02:25 UTC

Image: 20260914_174600_kcor_l2_nrgf.gif

Obs time: 17:46:00

First Seen: 17:12:07 (In progress before observations began)

CME Front Height: 1.94 Rs (front)

CME Front Angle: 309.0

East Edge Angle: 293.8

West Edge Angle: 319.2

Angular Width: 25.4

CME Speed: moderate

CME Brightness: moderate

Confidence: high

Weather COMMENT BY mcotter: Mon Sep 14 18:32:40 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-09-14 18:29:00
Temperature : 49.68 deg F
Dew Point : 17.96 deg F
Pressure : 679.34 mbar
Wind Speed : 1.79 mph
Wind Direction : 355.3 deg

Skies: Clear skies remain but aerosols are very high and continuing to increase.
____end____

GENERAL COMMENT BY mcotter: Mon Sep 14 20:08:58 GMT 2026
NOAA Work Site:

NOAA Work Site construction on the new tower started up again this morning. There is currently bulldozer work taking place with rock breaking and lava being moved around the site to the northwest of the observatory.

Currently there is no discernible dust entering the viewing area, though unfortunately aerosols continue to be high.

____end____

Mon Sep 14 21:02:18 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Mon Sep 14 21:14:05 GMT 2026 KCOR ABORT Calibration Script Clouds seen above the dome.

GENERAL COMMENT BY : Mon Sep 14 21:25:14 GMT 2026

MLSO internal network moved back to the 24 port CISCO switch

The switchover this morning did not go smoothly; multiple reboots and config changes periodically caused issues with the kcor data collection. But we did land on a good working config.

Major changes:

- Connection to the outside world now on CISCO

- pfSense powered down

- Cisco now doing all of our Layer 2 switching.

- Computer Wi-Fi should go back to the high-power system, leaving the internal Raspberry Pi network for sensors.

- Pi changed to a static IP address

____end____

GENERAL COMMENT BY mcotter: Mon Sep 14 21:31:33 GMT 2026

Dome closed

____end____

Weather COMMENT BY mcotter: Mon Sep 14 22:01:28 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-09-14 21:53:00

Temperature : 52.54 deg F

Dew Point : 42.22 deg F

Pressure : 679.62 mbar

Wind Speed : 11.86 mph

Wind Direction : 293.8 deg

Skies: Orographic clouds moved in rapidly and the sky quickly became mostly overcast. The clouds are a menacing shade of gray so the dome and dome area windows have been closed. The wind has picked up and is now blowing steadily from the northwest.

____end____

KCOR COMMENT BY KCOR: Tue Sep 15 01:25:30 GMT 2026

KCOR file transfer report

KCOR created 1050 .bin files

1024 .fts files

NOTICE ? 26 .bin file(s) with no matching .fts:

20260914_184153_kcor.bin

20260914_184208_kcor.bin

20260914_184223_kcor.bin

20260914_184238_kcor.bin

20260914_184253_kcor.bin

20260914_184308_kcor.bin

20260914_184324_kcor.bin

20260914_184339_kcor.bin

20260914_184354_kcor.bin

20260914_184409_kcor.bin
20260914_184424_kcor.bin
20260914_184439_kcor.bin
20260914_184455_kcor.bin
20260914_184510_kcor.bin
20260914_184525_kcor.bin
20260914_184540_kcor.bin
20260914_184555_kcor.bin
20260914_191826_kcor.bin
20260914_191841_kcor.bin
20260914_191856_kcor.bin
20260914_191911_kcor.bin
20260914_191926_kcor.bin
20260914_191941_kcor.bin
20260914_191957_kcor.bin
20260914_192012_kcor.bin
20260914_192027_kcor.bin

Remote site is complete ? no rsync required.

____end____

GENERAL COMMENT BY mcotter: Tue Sep 15 02:14:32 GMT 2026
ucomp hardware changes

Lots of trouble shooting this morning trying to get the UCoMP computer to play happily on the KVM. Main issues were screen resolution and lack of keyboard and mouse control at various points.

ultimately we landed on temporary solution with a short KVM/VGA extension cable to address the resolution, it seems like some part of the video chain between ucomp and the kvm isn't supporting the higher frequencies. The keyboard/mouse were addressed by plugging the usb connection into the "slow" usb 2.0 ports on the front of the case, this will likely be an issue with Chromag as well. Apparently the higher speed USB 3.0 ports attempt to do things that don't play with with the old kvm.

It also looks like Windows changed the numbering scheme for some of the COM ports this caused some issues with wrong commands going to the wrong hardware.

To do: A little more testing in the morning and some troubleshooting on the data transfers. Right now the automatic transfer scripts do not seem to be working so those need to be looked at tomorrow as well.

____end____

KCOR COMMENT BY KCOR: Tue Sep 15 02:19:36 GMT 2026
KCOR file transfer report
KCor created 1050 .bin files
1024 .fts files

NOTICE ? 26 .bin file(s) with no matching .fts:

20260914_184153_kcor.bin
20260914_184208_kcor.bin
20260914_184223_kcor.bin
20260914_184238_kcor.bin
20260914_184253_kcor.bin
20260914_184308_kcor.bin
20260914_184324_kcor.bin
20260914_184339_kcor.bin
20260914_184354_kcor.bin
20260914_184409_kcor.bin
20260914_184424_kcor.bin
20260914_184439_kcor.bin
20260914_184455_kcor.bin
20260914_184510_kcor.bin
20260914_184525_kcor.bin
20260914_184540_kcor.bin
20260914_184555_kcor.bin
20260914_191826_kcor.bin
20260914_191841_kcor.bin

20260914_191856_kcor.bin
20260914_191911_kcor.bin
20260914_191926_kcor.bin
20260914_191941_kcor.bin
20260914_191957_kcor.bin
20260914_192012_kcor.bin
20260914_192027_kcor.bin

Remote site is complete ? no rsync required.

____end____

BY mcotter: Tue Sep 15 02:24:02 GMT 2026

End Of Day:

Clear skies in the morning provided for good observations early. In the late morning Orographic clouds came into the area of the observatory and poor sky conditions followed for the rest of the day.

____end____

Logger COMMENT BY mcotter: Tue Sep 15 02:26:23 GMT 2026

Log closed

ONSITE STAFF: berkey, mcotter

____end____