
Mauna Loa Solar Observatory Observer's Log

Sun Jun 07 16:46:38 GMT 2026

Year:26 Doy:158

Observer: mcotter

Weather COMMENT BY mcotter: Sun Jun 07 16:50:10 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-06-07 16:44:00

Temperature : 46.56 deg F

Dew Point : 1.24 deg F

Pressure : 680.79 mbar

Wind Speed : 23.04 mph

Wind Direction : 163.3 deg

Skies: Very gusty and windy, blowing from the southeast. Dense fog in the Saddle Valley with clouds up to approximately 8500" elevation. The sky is quite clear in all directions. The inversion layer is visible on the horizon well below Haleakala and just above Hualalai.

____end____

GENERAL COMMENT BY mcotter: Sun Jun 07 17:05:04 GMT 2026

Dome open.

The loser dome shutter door is open all the way, but due to the windy conditions I have opened the upper dome shutter only a small amount.

The window remain closed due to the windy conditions.

____end____

** GENERAL PROBLEM REPORTED BY mcotter ** : Sun Jun 07 17:06:56 GMT 2026

The dome monitor and screen are not working at this time. I needed to start the SGS computer and spar in the control room.

I will troubleshoot once I am on sky and observing.

____end____

Sun Jun 07 17:09:41 GMT 2026 Kcor Focus/alignment program exited

Sun Jun 07 17:26:02 GMT 2026 Kcor Focus/alignment program exited

Sun Jun 07 17:39:30 GMT 2026 Kcor Focus/alignment program exited

Sun Jun 07 17:42:06 GMT 2026 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Sun Jun 07 18:01:16 GMT 2026

Kcor:

Ran focus routine and manually set focus to 134.53.

Started observations.

____end____

KCOR COMMENT BY mcotter: Sun Jun 07 18:12:53 GMT 2026

When starting the Kcor observing program today The MC4U reported a Red LED for the ePDU Up #1 Field. I went to the Git Hub repository for corrective actions and it indicated when having problems with the MC4U Status indicator LED's to try power cycling the unit. I tried power cycling the computer then running the MC4U and observing programs again. The ePDU Up#1 LED came up Red again and I noticed that the modulator temperature was "0" in the Temp Field. At first I now thought that I had a modulator reporting error and power cycled the ILX and checked the cables, When I returned to the control station the Modulator temp was now showing 34. I called been and asked him about the ePDU Up#1 reporting error and he told me to let it go and observe if all other criteria had been met in the MC4U, which they were all reading good.

Polarization checked good.

Kcor now observing with no problems.

____end____

GENERAL COMMENT BY mcotter: Sun Jun 07 18:21:01 GMT 2026

The monitor and KVM selector were not working in the dome when came in this morning. I checked the cables and then power cycled the monitor and KVM unit and the display came up and the selector worked properly.

____end____

Weather COMMENT BY mcotter: Sun Jun 07 19:13:22 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-06-07 19:02:00
Temperature : 54.66 deg F
Dew Point : -0.38 deg F
Pressure : 681.42 mbar
Wind Speed : 11.18 mph
Wind Direction : 155.2 deg

Skies: Sky remains clear in all directions. The wind continues to be gusty at times, primarily from the southeast. I opened the upper dome shutter door some more to account for the Sun rising in the sky, but I still have kept it partially closed due to the gusty winds.

____end____

GENERAL COMMENT BY mcotter: Sun Jun 07 19:16:26 GMT 2026

Sky conditions appear good, but there has been an uptick in the aerosols visible in the images.

____end____

** KCOR PROBLEM REPORTED BY mcotter ** : Sun Jun 07 19:32:19 GMT 2026

Dome Occulted KCor:

The dome was set in auto advance and when it rotated it rotated in the wrong direction.

At this time of the year the Sun is far enough north that the domes automatic rotation controls should rotate the dome in a clockwise direction (CW when looking up at the dome from the dome floor). I briefly paused the Kcor instrument observations and corrected the positioning of the dome automatic advance direction to CW. I also opened the upper dome shutter door all the way now that it is no longer exposed to the southern wind.

____end____

KCOR COMMENT BY mcotter: Sun Jun 07 19:32:58 GMT 2026

Kcor is again observing after a brief pause.

____end____

Sun Jun 07 20:19:49 GMT 2026 Report Time: 20:19:34 UTC

Image: 20260607_194604_kcor_l2_nrgf.gif

Obs time: 19:46:04

Launch Time: 19:38:13

CME Front Height: 1.58 Rs (front)

CME Front Angle: 272.6

East Wing Angle: 267.2

West Wing Angle: 276.1

Angular Width: 8.9

CME Speed: fast

CME Brightness: moderate

Confidence: high

Seen in: nrgf

Observer Comment: Small fast moving CME observed launching from western hemisphere.

CME Alert COMMENT BY mcotter: Sun Jun 07 20:23:25 GMT 2026

TIME: 19:38:13 UT

PA: 276 deg

WIDTH: 8.9 deg

Confidence: High

Small fast moving CME observed launching at western hemisphere.

____end____

Sun Jun 07 21:19:57 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Sun Jun 07 21:35:11 GMT 2026 KCOR End Calibration Script

Weather COMMENT BY mcotter: Sun Jun 07 21:46:27 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-06-07 21:38:00

Temperature : 59.95 deg F

Dew Point : 6.1 deg F

Pressure : 681.27 mbar

Wind Speed : 11.63 mph

Wind Direction : 125.1 deg

Skies: The sky remains very clear overhead with just a few Orographic clouds forming of

f to the west at lower elevations. The wind remains a bit gusty at times, but it has calmed down a bit. Though the images remain nice and clear, aerosols are becoming more observable in the images.

____end____

Weather COMMENT BY mcotter: Sun Jun 07 22:48:45 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-06-07 22:41:00

Temperature : 57.16 deg F

Dew Point : 35.46 deg F

Pressure : 681.08 mbar

Wind Speed : 6.26 mph

Wind Direction : 241.2 deg

Skies: The sky is clear overhead in all directions, but there are some Orographic clouds coming up from the east-southeast and the wind has died down a quite a bit.

Aerosols are increasing and are becoming quite visible in the images.

____end____

Weather COMMENT BY mcotter: Sun Jun 07 23:23:21 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-06-07 23:17:00

Temperature : 57.6 deg F

Dew Point : 31.52 deg F

Pressure : 680.88 mbar

Wind Speed : 6.49 mph

Wind Direction : 332.5 deg

Skies: Though the sky does remain clear in the viewing area the aerosols are getting very high and are very pronounced in the images.

____end____

KCOR COMMENT BY mcotter: Sun Jun 07 23:24:12 GMT 2026

Kcor:

Due to very high aerosols the Kcor instrument is being stopped at this time.

____end____

KCOR COMMENT BY KCOR: Sun Jun 07 23:25:59 GMT 2026

KCOR file transfer report

KCor created 1355 .bin files

1353 .fts files

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

20260607_192030_kcor.bin

20260607_232432_kcor.bin

Remote site is complete ? no rsync required.

____end____

BY mcotter: Sun Jun 07 23:48:09 GMT 2026

End Of Day.

Good day to observe until aerosols became excessively heavy in the early afternoon.

____end____

Logger COMMENT BY mcotter: Sun Jun 07 23:48:22 GMT 2026

Log closed

ONSITE STAFF: mcotter

____end____