
Mauna Loa Solar Observatory Observer's Log

Sat Oct 03 16:28:31 GMT 2026

Year:26 Doy:276

Observer: mcotter

Weather COMMENT BY mcotter: Sat Oct 03 16:30:33 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-10-03 16:26:00

Temperature : 38.15 deg F

Dew Point : 19.65 deg F

Pressure : 679.91 mbar

Wind Speed : 8.95 mph

Wind Direction : 205.8 deg

Skies: Clear skies in all directions, though they are a bit hazy a lower elevations. The inversion layer is visible on the horizon just above Hualalai. Moderate steady wind from the south southeast.

____end____

GENERAL COMMENT BY mcotter: Sat Oct 03 17:11:51 GMT 2026

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Sat Oct 03 17:11:58 GMT 2026

Dome open

____end____

** UCOMP PM mcotter ** : Sat Oct 03 17:12:07 GMT 2026

Blew off UCoMP 01

____end____

** KCOR PM mcotter ** : Sat Oct 03 17:12:21 GMT 2026

Blew off Kcor 01

____end____

Sat Oct 03 17:14:48 GMT 2026 Kcor Focus/alignment program exited

KCOR COMMENT BY KCOR: Sat Oct 03 17:17:30 GMT 2026

KCOR file transfer report

KCor created 2 .bin files

2 .fts files

WARNING 2 fts file(s) found locally that was not transfered dawn

ACTION must be taken to copy:

20261003_171632_kcor.fts

20261003_171648_kcor.fts

____end____

KCOR COMMENT BY KCOR: Sat Oct 03 17:41:00 GMT 2026

KCOR file transfer report

KCor created 66 .bin files

66 .fts files

WARNING 64 fts file(s) found locally that was not transfered dawn

ACTION must be taken to copy:

20261003_171703_kcor.fts

20261003_171718_kcor.fts

20261003_171733_kcor.fts

20261003_171748_kcor.fts

20261003_171803_kcor.fts

20261003_171819_kcor.fts

20261003_171834_kcor.fts

20261003_171849_kcor.fts

20261003_171904_kcor.fts

20261003_171919_kcor.fts

20261003_171934_kcor.fts

20261003_171950_kcor.fts

20261003_172005_kcor.fts

20261003_172020_kcor.fts

20261003_172035_kcor.fts

20261003_172050_kcor.fts

20261003_172105_kcor.fts

20261003_172121_kcor.fts

20261003_172136_kcor.fts

20261003_172151_kcor.fts

20261003_172206_kcor.fts
20261003_172221_kcor.fts
20261003_172237_kcor.fts
20261003_172252_kcor.fts
20261003_172307_kcor.fts
20261003_172322_kcor.fts
20261003_172337_kcor.fts
20261003_172352_kcor.fts
20261003_172408_kcor.fts
20261003_172423_kcor.fts
20261003_172438_kcor.fts
20261003_172453_kcor.fts
20261003_172508_kcor.fts
20261003_172523_kcor.fts
20261003_172539_kcor.fts
20261003_172554_kcor.fts
20261003_172609_kcor.fts
20261003_172624_kcor.fts
20261003_172639_kcor.fts
20261003_172654_kcor.fts
20261003_172710_kcor.fts
20261003_172725_kcor.fts
20261003_172740_kcor.fts
20261003_172755_kcor.fts
20261003_172810_kcor.fts
20261003_172825_kcor.fts
20261003_172841_kcor.fts
20261003_172856_kcor.fts
20261003_172911_kcor.fts
20261003_172926_kcor.fts
20261003_172941_kcor.fts
20261003_172956_kcor.fts
20261003_173012_kcor.fts
20261003_173027_kcor.fts
20261003_173042_kcor.fts
20261003_173057_kcor.fts
20261003_173112_kcor.fts
20261003_173128_kcor.fts
20261003_173143_kcor.fts
20261003_173158_kcor.fts
20261003_173213_kcor.fts
20261003_173228_kcor.fts
20261003_173243_kcor.fts
20261003_173259_kcor.fts

____end____

Sat Oct 03 17:52:27 GMT 2026 Kcor Focus/alignment program exited

** KCOR PROBLEM REPORTED BY mcotter ** : Sat Oct 03 18:19:44 GMT 2026

When starting the Kcor instrument this morning the Kcor Watchdog would not open. After several attempts and it not opening I texted Ben to ensure that we are still using this device for pipeline data transfer (we had spoken earlier in the week about eliminating this function) and he said that we still needed to run this app. I shut down the observing program then ran the Kcor-Daily app and manually sent the data collected this morning to the pipeline, then restarted the computer. After the computer restarted everything came up as normal, including the Kcor Watchdog app. Everything is now operating as normal.

It should be noted that earlier this week when I was observing I had a problem with the Kcor data not making it through the pipeline. After investigating it showed that the pipeline with the processed data from Boulder to MLSO appeared to be operating normally, but the Kcor-NRGF and Update-Data apps were not reading out or displaying the processed data from Boulder. I closed both apps and restarted them and they started operating as normal and the data began to flow and display.

Additionally, this morning I had an issue with the SGS app not seeing the Home Position and an GUI popped up advising me of this error. I shutdown and restarted the SGS app and the program came up and could see Home Position and began running normally.

Until all our devices are operating in a normal operating condition it may be a good idea to formally shutdown the various instrument apps on all the desk tops at the end of the day in order to minimize error conditions of this nature when restarting in the morning.

____end____

Sat Oct 03 18:46:35 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Sat Oct 03 19:01:49 GMT 2026 KCOR End Calibration Script

Sat Oct 03 19:59:39 GMT 2026 Kcor Focus/alignment program exited

Sat Oct 03 20:03:22 GMT 2026 Kcor Focus/alignment program exited

Sat Oct 03 20:29:06 GMT 2026 Kcor Focus/alignment program exited

KCOR COMMENT BY mcotter: Sat Oct 03 20:35:20 GMT 2026

Kcor:

At approximately 0905 HST I stopped the instrument and started the process of changing out the #2 O1 lens for the #3 O1 lens. I finished the installation and updated the Kcor config file to reflect the O1 lens substitution. I started the Kcor instrument, ran the focus routine and started observing, but the occulter centering did not look good to me. I closed the observing code and opened the focus again then manually adjusted the SGS values to better position the occulter. After making adjustment to the SGS values I restarted the Kcor observing program at approximately 1005 HST.

The Kcor instrument is now observing with the #3-O1 lens.

____end____

Sat Oct 03 21:17:42 GMT 2026 Kcor Focus/alignment program exited

BY mcotter: Sat Oct 03 21:25:06 GMT 2026

Kcor:

After putting the new O1 #3 lens into the instrument I restarted the observing program.

A few minutes later I had gotten an error message email from the pipeline saying that that the way I entered the new lens info into the configuration file was incorrect. I went back and re-entered the information again in the correct format. The Kcor observing program was restarted and the instrument is now observing with O1-#3 lens.

____end____

Sat Oct 03 21:29:17 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Sat Oct 03 21:44:31 GMT 2026 KCOR End Calibration Script

Weather COMMENT BY mcotter: Sat Oct 03 22:06:46 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-10-03 21:59:00

Temperature : 54.73 deg F

Dew Point : 35.11 deg F

Pressure : 681.15 mbar

Wind Speed : 13.65 mph

Wind Direction : 17.4 deg

Skies: Clear skies continue but some Orographic clouds are making their way up the eastern slope of Maunaloa.

____end____

Sat Oct 03 22:15:02 GMT 2026 Kcor Focus/alignment program exited

** KCOR PROBLEM REPORTED BY mcotter ** : Sat Oct 03 22:18:43 GMT 2026

Kcor:

After running the second calibration for the O1-#3 lens the observation images looked blurred on the NRGF images. I stopped the observing program and re-ran the focus routine then restarted the observing program.

____end____

Sat Oct 03 22:41:22 GMT 2026 Kcor Focus/alignment program exited

KCOR BY mcotter: Sat Oct 03 22:53:00 GMT 2026

Kcor:

After re-running the focus routine and re-starting observing program the initial image still looked out of focus.

I shut down the observing program and restarted the computer. I re-ran the focus routine and started the observing program again; the NRGF images now look good.

____end____

Weather COMMENT BY mcotter: Sat Oct 03 23:29:50 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-10-03 23:26:00

Temperature : 56.5 deg F

Dew Point : 38.85 deg F

Pressure : 680.44 mbar

Wind Speed : 10.29 mph

Wind Direction : 339.6 deg

Skies: The sky remains clear but it is getting brighter and aerosols are increasing.

____end____

Weather COMMENT BY mcotter: Sat Oct 03 23:44:27 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-10-03 23:38:00

Temperature : 56.93 deg F

Dew Point : 40.0 deg F

Pressure : 680.43 mbar

Wind Speed : 4.7 mph

Wind Direction : 320.5 deg

Skies: Orographic clouds have entered the area of the observatory and are starting to obstruct observations.

____end____

KCOR COMMENT BY mcotter: Sat Oct 03 23:45:38 GMT 2026

Kcor:

Observations have been paused due to deteriorating sky conditions.

____end____

KCOR COMMENT BY KCOR: Sat Oct 03 23:56:14 GMT 2026

KCOR file transfer report

KCor created 1115 .bin files

1115 .fts files

WARNING 1 fts file(s) found locally that was not transferred dawn

ACTION must be taken to copy:

20261003_174104_kcor.fts

____end____

Weather COMMENT BY mcotter: Sun Oct 04 00:02:12 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-10-03 23:56:00

Temperature : 56.7 deg F

Dew Point : 44.43 deg F

Pressure : 680.29 mbar

Wind Speed : 5.37 mph

Wind Direction : 355.9 deg

Skies: Orographic clouds are now moving in to the observatory area from all directions and the sky is becoming mostly overcast.

____end____

GENERAL COMMENT BY mcotter: Sun Oct 04 00:03:40 GMT 2026

Dome closed.

Dome area windows closed.

____end____

KCOR BY mcotter: Sun Oct 04 00:05:04 GMT 2026

Kcor:

Due to poor sky conditions the observations have stopped.

____end____

BY mcotter: Sun Oct 04 02:37:11 GMT 2026

End Of Day:

Good data with very clear skies early in the day then clouds moved in around the mid afternoon.

Observations done with the #2-01 lens followed by cal. Then the #3-01 lens was installed and observations were done followed by a cal, then more observations.

The #3-01 lens remains in the instrument.

The #2-01 lens was put into the #2-01 lens storage container with a note on top of the container identifying the #3 lens inside. The #3-01 lens is inside the pelican case in the clean room.

____end____

Logger COMMENT BY mcotter: Sun Oct 04 02:37:30 GMT 2026

Log closed

ONSITE STAFF: mcotter

____end____