
Mauna Loa Solar Observatory Observer's Log

Tue Sep 15 16:44:45 GMT 2026

Year:26 Doy:258

Observer: mcotter

Weather COMMENT BY mcotter: Tue Sep 15 16:46:31 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-09-15 16:41:00

Temperature : 40.55 deg F

Dew Point : 20.38 deg F

Pressure : 679.54 mbar

Wind Speed : 8.72 mph

Wind Direction : 204.2 deg

Skies: Clear skies in all directions. The air is slightly hazy at lower elevations with the inversion layer visible on the horizon just above Hualalai. Mild wind from the southeast.

____end____

GENERAL COMMENT BY mcotter: Tue Sep 15 17:00:35 GMT 2026

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Tue Sep 15 17:00:45 GMT 2026

Dome open

____end____

** UCOMP PM mcotter ** : Tue Sep 15 17:00:52 GMT 2026

Blew off UCoMP 01

____end____

** KCOR PM mcotter ** : Tue Sep 15 17:01:01 GMT 2026

Blew off Kcor 01

____end____

Tue Sep 15 17:09:53 GMT 2026 Kcor Focus/alignment program exited. Focus range manually set to 134.5.

KCOR BY mcotter: Tue Sep 15 17:12:41 GMT 2026

Kcor:

The Kcor instrument is now on sky and observing. Initial synoptic images look very good.

____end____

KCOR BY mcotter: Tue Sep 15 17:21:34 GMT 2026

Kcor:

The synoptic images look quite good as does the NRGF image, with aerosols appearing to be low.

____end____

Weather COMMENT BY mcotter: Tue Sep 15 17:31:22 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-09-15 17:26:00

Temperature : 49.35 deg F

Dew Point : 19.59 deg F

Pressure : 679.75 mbar

Wind Speed : 0.89 mph

Wind Direction : 226.6 deg

Skies: I spoke too soon, as the aerosols are now picking up and can be readily seen in the various images.

____end____

** UCOMP PROBLEM REPORTED BY mcotter ** : Tue Sep 15 18:47:54 GMT 2026

UCoMP wasn't talking to the filter wheel, paused kcor observations to try and troubleshoot issues. All cabling looked ok, but the wheel would not talk to labview or the vendor software. USB cables were reseated a couple of times and the yepkit (inline usb power relay) was removed from the filter wheel USB signal chain to simplify and hopefully address any USB issue.

While doing this work the dark shutter was also noticed to be inoperable, this was related to a spelling error in the scheme that decides if it is to be simulated or real hardware. The spelling was addressed and the shutter moves again.

___end___

** UCOMP PROBLEM REPORTED BY mcotter ** : Tue Sep 15 18:50:13 GMT 2026 entry was edited
UCoMP seems to be having an issue with the camera code. The occulter alignment read out fine. In the observing code we got 1 351 MB dark file followed by a couple 8 KB files. Troubleshooting now.

___end___

Tue Sep 15 19:50:21 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

UCOMP COMMENT BY mcotter: Tue Sep 15 19:59:27 GMT 2026

UCoMP filter wheel and camera continued to be a problem. yepkit reinstalled and instrument rebooted. Currently trying to watch the camera code closely but now no errors are seen and we are taking data that at least seems ok. Note the darks are now over 350 MB due to the extra repeats so the first dark was actually the correct size..

___end___

Tue Sep 15 20:05:23 GMT 2026 KCOR End Calibration Script

UCOMP COMMENT BY mcotter: Tue Sep 15 20:52:09 GMT 2026

Filter wheel died again during the scans.

___end___

GENERAL COMMENT BY mcotter: Tue Sep 15 21:06:37 GMT 2026

Dome closed

___end___

UCOMP COMMENT BY mcotter: Tue Sep 15 21:56:17 GMT 2026

Turned off power management for the USB devices maybe this will prevent the filter wheel from dropping.

___end___

GENERAL COMMENT BY mcotter: Tue Sep 15 23:00:53 GMT 2026

Updated the python scripts that move the filter wheel to automatically try to reconnect via the yepkit if it is detected that the usb disconnected

___end___

GENERAL COMMENT BY mcotter: Tue Sep 15 23:44:32 GMT 2026

KCoR USB connection to the ILX modulator heater moved back to the KCoR computer. It had been on the raspberry pi as a hack to allow us to turn it on before sunrise. This change reverts us back to the old and "correct" configuration.

___end___

KCOR COMMENT BY KCOR: Tue Sep 15 23:44:56 GMT 2026

KCOR file transfer report

KCoR created 921 .bin files

921 .fts files

Remote site is complete ? no rsync required.

___end___

BY mcotter: Wed Sep 16 02:29:59 GMT 2026

End Of Day:

Clear early in the morning but by late morning Orographic clouds moved into the area of the observatory and sky conditions remained poor for the rest of the day.

___end___

Logger COMMENT BY mcotter: Wed Sep 16 02:30:00 GMT 2026

Log closed

ONSITE STAFF: berkey, mcotter

___end___