
Mauna Loa Solar Observatory Observer's Log

Tue May 19 18:29:02 GMT 2026

Year:26 Doy:139

Observer:

Weather COMMENT BY : Tue May 19 18:30:20 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-05-19 18:26:00

Temperature : 47.12 deg F

Dew Point : 40.92 deg F

Pressure : 681.45 mbar

Wind Speed : 6.04 mph

Wind Direction : 49.0 deg

Skies: Clear but bright sky. The inversion layer is a blue gray and appears above the observatory on the horizon. Some Orographic clouds to the south and east.

____end____

BY : Tue May 19 18:35:09 GMT 2026

Power Supply Levels:

The ECO FLO battery was at 2% and the YETI was at 5% when I arrived onsite at 0640 HST.

The ILX was off due to the low battery levels. I waited until 0800 HST to turn on the ILX, which is now at approximately 20 C. The ECO FLO is now at 7% and the YETI is still at 5%. I have turned everything on and am now getting ready to observe, as long as the power input increases and maintains the ECO FLO battery.

____end____

KCOR BY : Tue May 19 18:51:18 GMT 2026

Kcor:

Unfortunately by the time I started running the Focus routine Orographic clouds developed over the viewing area and came in from the south-southeast.

____end____

Weather COMMENT BY : Tue May 19 18:52:25 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-05-19 18:47:00

Temperature : 46.83 deg F

Dew Point : 41.57 deg F

Pressure : 681.6 mbar

Wind Speed : 6.26 mph

Wind Direction : 13.3 deg

Skies: With incredible speed the sky has become mostly overcast, prompting me to pause any attempts to get on sky for observations.

____end____

KCOR COMMENT BY : Tue May 19 19:00:48 GMT 2026

Kcor:

Due to poor sky conditions I have turned off the Kcor computer in an attempt to get more power in the ECO FLO battery, just in case the sky clears again. The sky has quickly become completely overcast so I have closed the dome and windows. I have left the SGS computer on and have put the spar in Open Loop, in the event the sky does come clear again.

____end____

Weather COMMENT BY : Tue May 19 19:03:10 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-05-19 18:56:00

Temperature : 46.21 deg F

Dew Point : 41.77 deg F

Pressure : 681.57 mbar

Wind Speed : 6.93 mph

Wind Direction : 30.4 deg

Skies: The sky is now almost completely overcast...weather conditions change unbelievably fast on the mountain.

I will continue to monitor conditions regularly in the event we get some sky clearing

o observe.

____end____

GENERAL COMMENT BY : Tue May 19 19:06:53 GMT 2026

The ILX & heaters, Wahoo 2 computer, Control Station monitors, SGS computer and SPAR are all still energized in the event the sky does clear enough for observing.

____end____

GENERAL COMMENT BY : Tue May 19 19:15:41 GMT 2026

The cloud coverage had become so thick that the input wattage became much lower than the output wattage .

I have turned everything off except for the ILX, Wahoo 2 computer and monitors.

Even after multiple attempts I have not been able to connect to Global Protect on either Wahoo 2 or Kcor computers. The Kcor computer is now off, but I will continue to try to connect to Global Protect on the Wahoo 2 computer.

____end____

Weather COMMENT BY : Tue May 19 19:37:27 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-05-19 19:32:00

Temperature : 45.27 deg F

Dew Point : 43.95 deg F

Pressure : 681.65 mbar

Wind Speed : 7.38 mph

Wind Direction : 11.1 deg

Skies: The sky is completely overcast and a light fog is beginning to roll in and form in the observatory area.

____end____

GENERAL COMMENT BY : Tue May 19 19:58:50 GMT 2026

EPC has arrived onsite.

____end____

Weather COMMENT BY : Tue May 19 20:02:14 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-05-19 19:56:00

Temperature : 44.77 deg F

Dew Point : 44.17 deg F

Pressure : 681.71 mbar

Wind Speed : 9.62 mph

Wind Direction : 9.4 deg

Skies: Completely overcast.

A thick heavy fog has now completely settled over the entire observatory area.

____end____

GENERAL COMMENT BY : Tue May 19 20:03:43 GMT 2026

I have turned the ILX off.

____end____

BY : Tue May 19 20:07:30 GMT 2026

Jay Paulk has arrived onsite.

____end____

BY : Tue May 19 20:08:42 GMT 2026

I still have not been able to connect to Global Protect. I will continue trying to establish a connection.

____end____

GENERAL COMMENT BY : Tue May 19 20:21:12 GMT 2026

Power Supply Levels:

ECO FLO 4%.

YETI 5%.

Because of the dense fog surrounding the observatory the panels are collecting very little Sun input so the input power to the power units is quite low.

____end____

Weather COMMENT BY : Tue May 19 22:08:53 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-05-19 22:38:00

Temperature : 46.85 deg F
Dew Point : 45.19 deg F
Pressure : 681.11 mbar
Wind Speed : 14.09 mph
Wind Direction : 39.4 deg

Skies: The sky remains completely overcast and the wind is picking up and getting gusty . A bit of fog remains around the entire area of the observatory and a light rain has been falling on and off at times.

____end____

GENERAL COMMENT BY : Tue May 19 22:51:54 GMT 2026

Power Supply Levels.

The power levels are as follows:

ECO FLO battery: 10%.

YETI battery: 1%.

____end____

GENERAL COMMENT BY : Tue May 19 22:59:50 GMT 2026

Network changes.

Due to the low power available on the YETI power supply (~1%) I have switched the network computer to the ECO FLO power supply (~10%). The ECO FLO. There is approximately 25 W of power coming into the YETI battery and approximately 150 W of power coming into the ECO FLO.

____end____

BY : Tue May 19 23:03:35 GMT 2026

End Of Day.

Upon arriving today the battery power levels were too low to start observing, but the sky was very bright and when I did try to observe clouds quickly came into the viewing area, so regardless of the power available we would not have been able to observe today.

Today has been a cold and blustery day with lots of clouds, fog and a light rain; not a good day to observe.

____end____

Logger COMMENT BY : Tue May 19 23:03:44 GMT 2026

Log closed

ONSITE STAFF: mcotter, Jay Paulk, EPC

____end____