
Mauna Loa Solar Observatory Observer's Log

Tue Sep 08 17:30:45 GMT 2026

Year:26 Doy:251

Observer: berkey

Weather COMMENT BY berkey: Tue Sep 08 17:31:23 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-09-08 17:26:00

Temperature : 53.87 deg F

Dew Point : 30.4 deg F

Pressure : 679.79 mbar

Wind Speed : 0.45 mph

Wind Direction : 156.2 deg

Skies: broken cirrus overcast, we are in the outer bands of Lowell.

____end____

GENERAL COMMENT BY berkey: Tue Sep 08 17:43:13 GMT 2026

Observatory and campus looks like it is in ok shape having the hurricane pass well south and west of the observatory.

We did apparently the Goal zero 3000 battery system died about just before mid-night on Sunday. This morning the system was charging but the AC output was offline. Pushing the AC output button it briefly came on then went "RED" indicating an inverter fault.

A soft reset holding the info and units button, got the system to reboot but didn't seem to fix the inverter. A hard reset, using the button under the cover (there are two buttons one is a wireless button with wireless icons, the reset is the other) along with the info button, the unit was forced into a hard reset. After coming back online the AC could be turned back on. After waiting a few minutes the load as reconnected and came up.

It is not clear why the inverter faulted. My guess is the battery was fully depleted after cloudy days and the system did not come back up properly. But we were not logging the battery levels over the weekend so this is only a guess.

With the goal zero off the internet and pi were off so the kcor heaters did not turn on until staff arrived on site.

____end____

GENERAL COMMENT BY berkey: Tue Sep 08 18:15:42 GMT 2026

Tower construction contractor on site.

____end____

Tue Sep 08 23:39:15 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Tue Sep 08 23:40:02 GMT 2026 KCOR ABORT Calibration Script

Tue Sep 08 23:40:40 GMT 2026 KCOR Start Calibration script: C:\kcor\dark-test-20260908.ini

Tue Sep 08 23:42:38 GMT 2026 KCOR End Calibration Script

KCOR COMMENT BY berkey: Wed Sep 09 00:11:52 GMT 2026

Reverted back to the old Packard shutter to sent the uniblitz back for repair. It was a struggle of a process to work in the tight/awkward space. On testing after reassembling it was found that the burnt (bottom) shutter snagged and randomly got stuck in mid travel when trying to open. With out fully disassembling the bad shutter it is not clear how to address this issue.

It was deemed worse to have it 1/2 closed while taking data vs taking it out of service and leaving it open. This shutter is normal opened expect when forced closed by the solenoid so the software was updated to only control the front good shutter.

____end____

BY berkey: Wed Sep 09 00:34:28 GMT 2026

Skies were poor all day. There may have been a 10 minute window where the cirrus had cleared and there was a gap between some dark rain clouds. unfortunately kcor was apart of the shutter swap when this was noticed.

Other was high clouds all morning then around 11 the low clouds rolled in.

____end____

Logger COMMENT BY berkey: Wed Sep 09 00:41:52 GMT 2026

Log closed

ONSITE STAFF: berkey

____end____