
Mauna Loa Solar Observatory Observer's Log

Tue Mar 31 17:33:46 GMT 2026

Year:26 Doy:090

Observer: berkey

Weather COMMENT BY berkey: Tue Mar 31 17:34:02 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-03-31 17:29:00

Temperature : 38.89 deg F

Dew Point : -11.61 deg F

Pressure : 677.15 mbar

Wind Speed : 3.13 mph

Wind Direction : 213.5 deg

Skies: clear

____end____

GENERAL COMMENT BY berkey: Tue Mar 31 17:38:54 GMT 2026 entry was edited

Dome open

____end____

GENERAL COMMENT BY berkey: Tue Mar 31 17:38:58 GMT 2026 entry was edited

Opened windows upstairs

____end____

Guider/spar COMMENT BY mcotter: Tue Mar 31 18:38:30 GMT 2026

When we brought the SGS system back online the RA Drive was acting extremely erratically and the plot traces were plotting to the extreme; there appeared to be chatter in the mechanism due to the prolong period of sitting idle. I suspect that the clutch plates have perhaps hardened over time and have lost their inherent ability to provide sufficient steady drag on the adjacent clutch plate. I also found that the brass spur gear that engages with the drive worm gear had some wear on it and there was fine particles of brass distributed throughout the assembly. Because of time constraints I vacuumed all surfaces within the assembly with the HEPA vacuum and then wiped every surface with alcohol. The clutch pad to clutch plate friction was backed off slightly to reduce drag and to try to improve the chatter we have seen. The spar movement now appears to be slightly smoother and our plot traces appear to be back to a normal condition.

____end____

Guider/spar COMMENT BY berkey: Tue Mar 31 18:46:39 GMT 2026

Ran the guider tuning algorithm new values have been saved in the startup config.

RA now:

30

.007

____end____

Source Log Type BY berkey: Tue Mar 31 18:52:03 GMT 2026 entry was edited

Kcor realtime software has been selected by the observer.

LYOT Stop change to 35mm_metal_DFS

____end____

** KCOR PROBLEM REPORTED BY ** : Tue Mar 31 19:21:01 GMT 2026

KCOR time was off by about 3 minutes time adjusted between

19:15:30 and 19:20:55

All data before 19:15:30 had the wrong time stamp

____end____

** GENERAL PROBLEM REPORTED BY mcotter ** : Tue Mar 31 20:19:15 GMT 2026

Internet down

Global Protect dropped out at 20:04 UT and was brought back online at approximately 20:14 UT.

No Data transferred during that period.

____end____

GENERAL COMMENT BY mcotter: Tue Mar 31 21:20:18 GMT 2026

Solar contractors site supervisor and team came out to the observatory to inspect their equipment and get a lay of the land. They are headed back to Oahu to formalize and plan and order missing parts before getting back to on site to start installation.

____end____

KCOR COMMENT BY mcotter: Tue Mar 31 23:07:42 GMT 2026

The Kcor instrument ran a calibration at 22:21 UTC.

____end____

Weather COMMENT BY mcotter: Tue Mar 31 23:13:59 GMT 2026 entry was edited

MLO Current Weather

Timestamp (UTC): 2026-03-31 23:08:00

Temperature : 47.05 deg F

Dew Point : 27.96 deg F

Pressure : 677.85 mbar

Wind Speed : 12.97 mph

Wind Direction : 333.3 deg

Skies: Clouds are beginning to encroach from all directions into the viewing area and images are getting bright.

____end____

KCOR COMMENT BY mcotter: Tue Mar 31 23:16:33 GMT 2026

The Kcor instrument has been stopped.

____end____

** KCOR PM berkey ** : Wed Apr 01 00:01:05 GMT 2026

Washed Kcor 01 with soap and water.

____end____

KCOR COMMENT BY KCOR: Wed Apr 01 00:47:22 GMT 2026

KCOR file transfer report

KCor created 1155 .bin files

1154 .fts files

NOTICE ? 1 .bin file(s) with no matching .fts:

20260401_001253_kcor.bin

Remote site is complete ? no rsync required.

____end____

Logger COMMENT BY berkey: Wed Apr 01 00:50:06 GMT 2026

Log closed

ONSITE STAFF: berkey, mcotter

____end____