
Mauna Loa Solar Observatory Observer's Log

Thu Aug 06 18:35:05 GMT 2026

Year:26 Doy:218

Observer: berkey

KCOR COMMENT BY berkey: Thu Aug 06 18:35:39 GMT 2026 entry was edited

Delayed start up to finish cleaning the O1.

First contact was applied yesterday and left overnight on both sides of the lens; this seemed like the best application so far as it peeled off in one layer with no additional cleaning required to remove torn material. The surface looked pretty good after the peel, but we did accumulate some dust during the peel and transport up to the telescope. We were able to remove all of visible large dust material. However a "point" source was seen on the O1 during inspection in full sun, which would not blow off. Based on how it caught the light it looks like this is a defect in the lens surface not the dust on top. We think this bright point is likely the source of the large bullet hole seen in the south.

Inspection of the NRGF images does after completing the cleaning does not show a significant change in image quality. The fringes and large southern bullet hole remain. But at this point it is not clear what other interventions could be done to clean up the lens. All of these features have survived the full range of the cleaning techniques we have to bring to bear.

____end____

Thu Aug 06 18:53:27 GMT 2026 Kcor Focus/alignment program exited

Thu Aug 06 19:14:35 GMT 2026 Kcor Focus/alignment program exited

Thu Aug 06 19:22:37 GMT 2026 Kcor Focus/alignment program exited went back to this morning's focus' as 134.9 looked like a better focus than 133.3.

Weather COMMENT BY lisapg: Thu Aug 06 19:51:56 GMT 2026

MLO Current Weather

Timestamp (UTC): 2026-08-06 00:14:00

Temperature : 47.35 deg F

Dew Point : 46.78 deg F

Pressure : 681.04 mbar

Wind Speed : 5.59 mph

Wind Direction : 53.7 deg

Skies: Clear overhead but cirrus on all the horizons.

____end____

KCOR COMMENT BY KCOR: Thu Aug 06 20:37:52 GMT 2026

KCOR file transfer report

KCor created 339 .bin files

336 .fts files

NOTICE ? 3 .bin file(s) with no matching .fts:

20260806_190720_kcor.bin

20260806_192025_kcor.bin

20260806_203010_kcor.bin

Remote site is complete ? no rsync required.

____end____

Weather COMMENT BY berkey: Thu Aug 06 21:47:55 GMT 2026

MLO Current Weather

Skies: Thin cirrus overhead, Kcor stopped and shut down

____end____

KCOR COMMENT BY berkey: Thu Aug 06 23:39:22 GMT 2026

More testing on the kcor shutter today. Trying to address the lack of feedback we get from the hall sensor on open/close states. The sensor claims to need a 5 V signal where the driver board supplies 6.75 V. As a temporary check the sensor was moved to an external 5 V power supply to see if this changed the feedback signal; but the results remained the same. The 5 V power was removed and the hall sensor is currently unpowered while we wait for more information from the vendor.

The shutter is operational and the header meta-data remains tied to the commanded state not the position feedback. As a note; even with the feedback working I still think we would have sensed the 90% closed state as closed. The feedback system only has 2 values which switch at 80% closed.

____end____

Logger COMMENT BY berkey: Thu Aug 06 23:39:25 GMT 2026

Log closed

ONSITE STAFF: berkey, lisapg

____end____