
Mauna Loa Solar Observatory Observer's Log

Mon Jun 29 16:48:02 GMT 2026

Year:26 Doy:180

Observer:

Weather COMMENT BY : Mon Jun 29 16:50:45 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-06-29 16:44:00

Temperature : 50.92 deg F

Dew Point : -11.4 deg F

Pressure : 680.14 mbar

Wind Speed : 3.8 mph

Wind Direction : 241.5 deg

Skies: Clouds in the Saddle Valley up to approximately 10,000' with an inversion layer visible on the horizon above Haleakala. The sky has a bright slightly hazy appearance.

____end____

GENERAL COMMENT BY : Mon Jun 29 16:50:54 GMT 2026

Opened windows upstairs

____end____

GENERAL COMMENT BY : Mon Jun 29 16:51:02 GMT 2026

Dome open

____end____

** KCOR PM ** : Mon Jun 29 16:51:09 GMT 2026

Blew off Kcor Ol

____end____

Mon Jun 29 17:01:51 GMT 2026 Kcor Focus/alignment program exited

KCOR BY : Mon Jun 29 17:12:15 GMT 2026

Kcor:

Kcor now observing. After running the Focus routine I manually set the focus to 134.46 . Polarization looks good. The sky appears a little bright and aerosols are visible in the different images, but overall the images look good.

____end____

Mon Jun 29 17:20:49 GMT 2026 KCOR Start Synoptic Patrol

GENERAL COMMENT BY : Mon Jun 29 17:50:47 GMT 2026

Lowered the network solar planes from a ~45 degree position to a flat position, this appears to have given us at least 2 x the solar production as we saw at 45. We probably should have done this day one.

____end____

Mon Jun 29 18:46:52 GMT 2026 KCOR End Patrol

Mon Jun 29 18:46:53 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Mon Jun 29 19:02:08 GMT 2026 KCOR End Calibration Script

Mon Jun 29 19:02:25 GMT 2026 KCOR Start Synoptic Patrol

Mon Jun 29 19:02:26 GMT 2026 KCOR Start Synoptic Patrol

Mon Jun 29 19:32:35 GMT 2026 KCOR Start Synoptic Patrol

KCOR COMMENT BY berkey: Mon Jun 29 19:33:06 GMT 2026

kcor hardware changes

Swapped the light dump material for the new hexablock structure made by Andrew

____end____

Mon Jun 29 19:50:48 GMT 2026 KCOR End Patrol

Mon Jun 29 19:50:49 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Mon Jun 29 20:06:00 GMT 2026 KCOR End Calibration Script

Mon Jun 29 20:06:17 GMT 2026 KCOR Start Synoptic Patrol

Mon Jun 29 20:06:18 GMT 2026 KCOR Start Synoptic Patrol

Weather COMMENT BY berkey: Mon Jun 29 20:22:31 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-06-29 20:17:00

Temperature : 58.35 deg F

Dew Point : 31.16 deg F

Pressure : 681.13 mbar

Wind Speed : 9.17 mph

Wind Direction : 336.9 deg

Skies: The sky is clear but there are a lot of aerosols. There are Orographic clouds coming up from the Saddle Valley and coming up from the south over Maunaloa.

____end____

Weather COMMENT BY berkey: Mon Jun 29 20:45:59 GMT 2026

MLSO Current Weather

Timestamp (UTC): 2026-06-29 20:41:00

Temperature : 56.23 deg F

Dew Point : 42.29 deg F

Pressure : 681.22 mbar

Wind Speed : 11.41 mph

Wind Direction : 346.9 deg

Skies: Orographic clouds have moved into the viewing area.

____end____

KCOR BY berkey: Mon Jun 29 20:47:17 GMT 2026

Kcor:

Clouds have moved into the cleaning area. Observations have been paused.

____end____

** KCOR PROBLEM REPORTED BY berkey ** : Mon Jun 29 21:02:04 GMT 2026

Kcor realtime software

KCor calibration code was not putting the dark shutter in. Last week when the dark shutter was installed it was tested/verified with the mc4u (observer gui) but not the calibration code. Both of these two programs made independent calls to the dark shutter program. So during the last 4 days of calibration runs a command was sent out to the Mc4u GUI to command removed hardware; so no changes were made.

The confusing part is because the old shutter path was set to in beam the meta-data was also set to in. Then when the Mc4u gui polled the correct uniblitz shutter it was found to be open so the meta was changed back to open after a few seconds ~30 seconds but it could be more or less depending on when the calibration code made its command during the timeout window for checking the shutter (and other hardware) states.

____end____

Mon Jun 29 21:05:44 GMT 2026 KCOR Start Calibration script: C:\kcor\polarizer-calibration.ini

Mon Jun 29 21:06:43 GMT 2026 KCOR Start Calibration script: C:\kcor\polarizer-calibration.ini

Mon Jun 29 21:07:15 GMT 2026 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg-20171025.ini

Mon Jun 29 21:14:36 GMT 2026 KCOR Start Calibration script: C:\kcor\dark-test-20260629.ini

Mon Jun 29 21:22:59 GMT 2026 KCOR End Calibration Script

Mon Jun 29 21:31:03 GMT 2026 KCOR Start Calibration script: C:\kcor\dark-test-20260629.ini

KCOR COMMENT BY berkey: Mon Jun 29 21:37:08 GMT 2026

Kcor realtime software

Updated the kcor calibration shutter code to command the new shutter and write the meta data based on feedback from the shutter controller. It now looks like the logic is correct.

Looking in some clouds with diffuser in the counts go up and down as I expect with the shutter in and out as commanded by the script. Note with the clouds it is hard to evaluate if the intensity change between diffuser and dark images is the expected value for a good dark.

____end____

Mon Jun 29 21:38:25 GMT 2026 KCOR ABORT Calibration Script

KCOR COMMENT BY KCOR: Mon Jun 29 23:15:24 GMT 2026

KCOR file transfer report

KCor created 861 .bin files

857 .fts files

NOTICE ? 4 .bin file(s) with no matching .fts:

20260629_190539_kcor.bin

20260629_204101_kcor.bin

20260629_212612_kcor.bin

20260629_213823_kcor.bin
WARNING 96 fts file(s) found locally that was not transfered dawn
ACTION must be taken to copy:

20260629_211303_kcor.fts
20260629_211318_kcor.fts
20260629_211333_kcor.fts
20260629_211348_kcor.fts
20260629_211404_kcor.fts
20260629_211419_kcor.fts
20260629_211434_kcor.fts
20260629_211449_kcor.fts
20260629_211504_kcor.fts
20260629_211519_kcor.fts
20260629_211535_kcor.fts
20260629_211550_kcor.fts
20260629_211605_kcor.fts
20260629_211620_kcor.fts
20260629_211635_kcor.fts
20260629_211650_kcor.fts
20260629_211706_kcor.fts
20260629_211721_kcor.fts
20260629_211736_kcor.fts
20260629_211751_kcor.fts
20260629_211806_kcor.fts
20260629_211821_kcor.fts
20260629_211837_kcor.fts
20260629_211852_kcor.fts
20260629_211907_kcor.fts
20260629_211922_kcor.fts
20260629_211937_kcor.fts
20260629_211952_kcor.fts
20260629_212008_kcor.fts
20260629_212023_kcor.fts
20260629_212038_kcor.fts
20260629_212053_kcor.fts
20260629_212108_kcor.fts
20260629_212123_kcor.fts
20260629_212139_kcor.fts
20260629_212154_kcor.fts
20260629_212209_kcor.fts
20260629_212224_kcor.fts
20260629_212239_kcor.fts
20260629_212255_kcor.fts
20260629_212310_kcor.fts
20260629_212325_kcor.fts
20260629_212340_kcor.fts
20260629_212355_kcor.fts
20260629_212410_kcor.fts
20260629_212426_kcor.fts
20260629_212441_kcor.fts
20260629_212456_kcor.fts
20260629_212511_kcor.fts
20260629_212526_kcor.fts
20260629_212541_kcor.fts
20260629_212557_kcor.fts
20260629_212715_kcor.fts
20260629_212730_kcor.fts
20260629_212745_kcor.fts
20260629_212801_kcor.fts
20260629_212816_kcor.fts
20260629_212831_kcor.fts
20260629_212846_kcor.fts
20260629_212901_kcor.fts
20260629_212916_kcor.fts
20260629_212932_kcor.fts
20260629_212947_kcor.fts
20260629_213002_kcor.fts

20260629_213017_kcor.fts
20260629_213032_kcor.fts
20260629_213047_kcor.fts
20260629_213103_kcor.fts
20260629_213118_kcor.fts
20260629_213133_kcor.fts
20260629_213148_kcor.fts
20260629_213203_kcor.fts
20260629_213218_kcor.fts
20260629_213234_kcor.fts
20260629_213249_kcor.fts
20260629_213304_kcor.fts
20260629_213319_kcor.fts
20260629_213334_kcor.fts
20260629_213349_kcor.fts
20260629_213405_kcor.fts
20260629_213420_kcor.fts
20260629_213435_kcor.fts
20260629_213450_kcor.fts
20260629_213505_kcor.fts
20260629_213520_kcor.fts
20260629_213536_kcor.fts
20260629_213551_kcor.fts
20260629_213606_kcor.fts
20260629_213621_kcor.fts
20260629_213636_kcor.fts
20260629_213651_kcor.fts
20260629_213707_kcor.fts
20260629_213722_kcor.fts
20260629_213737_kcor.fts
20260629_213752_kcor.fts
20260629_213807_kcor.fts

____end____

Logger COMMENT BY berkey: Tue Jun 30 00:44:11 GMT 2026

Log closed

ONSITE STAFF: berkey, mcotter

____end____