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Mauna Loa Solar Observatory Observer's Log
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Mon Oct 19 16:37:48 GMT 2026
Year:26 Doy:292
Observer: mcotter
Weather COMMENT BY mcotter: Mon Oct 19 16:41:07 GMT 2026
MLO Current Weather
Timestamp (UTC): 2026-10-19 16:35:00
Temperature    : 38.49  deg F
Dew Point      : -3.57  deg F
Pressure       : 681.35 mbar
Wind Speed     : 18.34 mph
Wind Direction : 168.7  deg

Skies: Clear skies overhead with clouds in the Saddle Valley up to approximately 10,000 ' elevation. The air appears a bit hazy at lower elevations with the inversion layer vi sible on the horizon just above Haleakala. Gusty and cold steady wind blowing from the southeast.
___end___
GENERAL COMMENT BY mcotter: Mon Oct 19 16:48:58 GMT 2026
Dome open
___end___
** UCOMP PM mcotter ** : Mon Oct 19 16:49:05 GMT 2026
Blew off UCoMP O1
___end___
** KCOR PM mcotter ** : Mon Oct 19 16:49:17 GMT 2026
Blew off Kcor O1
___end___
GENERAL COMMENT BY mcotter: Mon Oct 19 16:50:08 GMT 2026
Due to the gusty winds blowing from the southeast the dome window have been left closed .
___end___
Mon Oct 19 17:19:38 GMT 2026 Kcor Focus/alignment program exited. Focus range set at 13 6.58
KCOR COMMENT BY mcotter: Mon Oct 19 17:22:53 GMT 2026
Kcor:

The Kcor instrument is now on sky and observing. The initial synoptic images look very good.
___end___
GENERAL COMMENT BY mcotter: Mon Oct 19 17:29:05 GMT 2026
The NOAA construction crew is onsite and have started working driving heavy vehicles ac ross the lava. Due to a strong steady wind blowing from the south the dust that they ar e kicking up does not appear to be making its way into the area of the sky where observ ations are taking place, so observations are at this time continuing. I will continue t o closely monitor conditions to ensure that the NOAA site activity does not adversely a ffect the observations.
___end___
GENERAL COMMENT BY mcotter: Mon Oct 19 18:22:46 GMT 2026
Concrete pour in tower footing nearest to the observatory is underway.  Winds still str ong out of the south east so dust generated in the process is not an issue.
___end___
** KCOR PM mcotter ** : Mon Oct 19 19:50:10 GMT 2026
First Contact Kcor #4-O1

The Kcor #4-O1 was cleaned last week with soap and water and spot cleaned with alcohol. After this cleaning process there were still some foreign particles present in a somew hat spot pattern in areas resembling a spray pattern. This morning the O1 lens frame wa s taken apart and one half of the frame was separated from the lens glass, exposing the edge of the glass all the way around. Then using painters masking tape with plastic at tached ( the kind of tape for masking a window) a layer of tape was put around the enti re outer edge of the circumference of the lens (this was accomplished by cutting the ta pe into 1.5" segments and applying them in an overlapping pattern, so a uniform berm wa s established around the entire outer surface of the glass). Two coats of First Contact was applied to the #4-O1 lens in the clean room. The lens is still in the clean room a s we wait for the First Contact to cure.

___end___
Weather COMMENT BY mcotter: Mon Oct 19 19:59:44 GMT 2026
MLSO Current Weather
Timestamp (UTC): 2026-10-19 19:56:00
Temperature    : 55.58  deg F
Dew Point      : -5.89  deg F
Pressure       : 682.83 mbar
Wind Speed     : 15.88 mph
Wind Direction : 85.1  deg

Skies: The sky continues to be very clear overhead.
___end___
Mon Oct 19 19:59:55 GMT 2026 KCOR Start Calibration script: c:\kcor\mlso-calibration22d
eg-20171025.ini
Mon Oct 19 20:15:11 GMT 2026 KCOR End Calibration Script
GENERAL COMMENT BY mcotter: Mon Oct 19 20:26:19 GMT 2026
Weather report:

The sky remains very clear but aerosols are starting to get heavy.
___end___
GENERAL COMMENT BY mcotter: Mon Oct 19 20:40:19 GMT 2026 entry was edited
Closed Lower Dome Shutter Door.

The Lower Dome Shutter Door has been closed at this time due to gusty wind conditions,
blowing from the east, in order to inhibit wind buffeting on the instruments and spar.
___end___
Weather COMMENT BY mcotter: Mon Oct 19 21:39:43 GMT 2026
MLSO Current Weather
Timestamp (UTC): 2026-10-19 21:29:00
Temperature    : 57.38  deg F
Dew Point      : 0.16  deg F
Pressure       : 682.45 mbar
Wind Speed     : 15.21 mph
Wind Direction : 61.6  deg

Skies: The sky continues to be very clear overhead and in the viewing area.
Aerosol have increased significantly and are quite visible in the synoptic, Level 0 and
 NRGF images.
The wind continues to be elevated and and blowing gustily from the east-northeast.
___end___
  BY mcotter: Mon Oct 19 21:49:07 GMT 2026
Weather Report:

Orographic clouds can be seen forming to the east and west at this time.
The wind continues to blow quite gustily from the east-northeast.
Aerosols are significant and very heavy.
___end___
  BY mcotter: Mon Oct 19 22:23:10 GMT 2026
Weather Report:

The sky continues to be clear overhead and in the viewing area.
Orographic clouds continue to increase to the west, and Orographic clouds are now comin
g over the summit of Maunaloa to the south.
The wind appears to be increasing and is blowing quite gustily from the northeast.
Aerosols continue to be very high.
___end___
  BY mcotter: Tue Oct 20 01:24:05 GMT 2026
Reopened Lower Dome Shutter Door:

The lower dome shutter door has been reopen due to the spar and instrument now pointing
 lower on the western sky as it tracks the Sun.
___end___
GENERAL COMMENT BY mcotter: Tue Oct 20 01:27:57 GMT 2026
Weather Report:

The sky overhead and in the viewing area continues to be very clear.
Aerosols have dropped noticeably since mid day when they had been at their heaviest.

The wind continues to be strong and gusty, but it continues to blow out of the east so it appears to be helping keep the Orographic clouds from advancing toward the observatory.
___end___
KCOR COMMENT BY KCOR: Tue Oct 20 02:56:08 GMT 2026
KCOR file transfer report
KCor created  2262 .bin files
2262 .fts files
  Remote site is complete ? no rsync required.

___end___
Logger COMMENT BY mcotter: Tue Oct 20 02:58:03 GMT 2026
Log closed
ONSITE STAFF: berkey, mcotter
___end___