
Mauna Loa Solar Observatory Observer's Log

Sat Aug 7 16:28:29 GMT 2021

Year: 21 Doy: 219

Observer: mlso

WEATHER COMMENT: mcotter: Sat Aug 07 16:29:52 GMT 2021

Temp: 40.6f, Humidity: 70%, Pressure: 28.749in, Wind: 4mph from 136degs, Skies: Clear skies. Inversion layer visible on the horizon at or just below Haleakala.

____end____

Sat Aug 07 17:05:52 GMT 2021 Kcor Focus/alignment program exited

GENERAL COMMENT BY mcotter: Sat Aug 07 17:09:04 GMT 2021

Opened windows upstairs

____end____

GENERAL COMMENT BY mcotter: Sat Aug 07 17:09:13 GMT 2021

PM Blew off Kcor O1

____end____

GENERAL COMMENT BY mcotter: Sat Aug 07 17:09:19 GMT 2021

PM Blew off UCOMP O1

____end____

Sat Aug 07 17:10:27 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.ckb

Sat Aug 07 17:10:46 GMT 2021 Running UCOMP Cookbook 530_Scan.ckb

GENERAL COMMENT BY mcotter: Sat Aug 07 17:12:29 GMT 2021

Kcor now running.

SGS Offsets: X(RA): -130, Y(Dec): 100.

Polarization checked good: Mid, Bright, Dark, Mid.

____end____

GENERAL COMMENT BY mcotter: Sat Aug 07 17:13:03 GMT 2021

Ucomp now running.

____end____

Sat Aug 07 17:14:03 GMT 2021 Running UCOMP Cookbook 637_Scan.ckb

Sat Aug 07 17:16:56 GMT 2021 Running UCOMP Cookbook 656_Scan.ckb

Sat Aug 07 17:19:47 GMT 2021 Running UCOMP Cookbook 691_Scan.ckb

Sat Aug 07 17:22:38 GMT 2021 Running UCOMP Cookbook 706_Scan.ckb

Sat Aug 07 17:25:29 GMT 2021 Running UCOMP Cookbook 789_Scan.ckb

Sat Aug 07 17:28:20 GMT 2021 Running UCOMP Cookbook 1074_Scan.ckb

Sat Aug 07 17:31:13 GMT 2021 Running UCOMP Cookbook 1079_Scan.ckb

Sat Aug 07 17:34:04 GMT 2021 Running UCOMP Cookbook 1083_Scan.ckb

Sat Aug 07 17:36:54 GMT 2021 Running UCOMP Cookbook all_coronal_7_flats.ckb

Sat Aug 07 17:55:34 GMT 2021 Running UCOMP Cookbook all_coronal_7.ckb

Sat Aug 07 18:02:06 GMT 2021 Running UCOMP Cookbook all_coronal_7.ckb

Sat Aug 07 18:17:28 GMT 2021 Running UCOMP Cookbook all_coronal_7.ckb

Sat Aug 07 18:34:26 GMT 2021 Running UCOMP Cookbook all_coronal_7.ckb

Sat Aug 07 18:37:44 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.ckb

Sat Aug 07 18:38:04 GMT 2021 Running UCOMP Cookbook 530_Pol_Calibrate.ckb

Sat Aug 07 18:42:48 GMT 2021 Running UCOMP Cookbook 637_Pol_Calibrate.ckb

Sat Aug 07 18:47:16 GMT 2021 Running UCOMP Cookbook 656_Pol_Calibrate.ckb

Sat Aug 07 18:51:33 GMT 2021 Running UCOMP Cookbook 691_Pol_Calibrate.ckb

Sat Aug 07 18:55:51 GMT 2021 Running UCOMP Cookbook 706_Pol_Calibrate.ckb
Sat Aug 07 19:00:08 GMT 2021 Running UCOMP Cookbook 789_Pol_Calibrate.ckb
Sat Aug 07 19:04:26 GMT 2021 Running UCOMP Cookbook 1074_Pol_Calibrate.ckb
Sat Aug 07 19:08:45 GMT 2021 Running UCOMP Cookbook 1079_Pol_Calibrate.ckb
Sat Aug 07 19:13:00 GMT 2021 Running UCOMP Cookbook 1083_Pol_Calibrate.ckb
Sat Aug 07 19:17:16 GMT 2021 Running UCOMP Cookbook dark_200_200_1sums_80ms.ckb
Sat Aug 07 19:22:15 GMT 2021 Running UCOMP Cookbook all_coronal_7_flats.ckb
Sat Aug 07 19:40:55 GMT 2021 Running UCOMP Cookbook all_coronal_7.ckb
Sat Aug 07 19:58:31 GMT 2021 Running UCOMP Cookbook all_coronal_7.ckb

WEATHER COMMENT: mcotter: Sat Aug 07 20:02:57 GMT 2021

Skies remain clear but aerosols are increasing dramatically. Winds continue to be lightly blowing out of the northwest.
____end____

Sat Aug 07 20:05:29 GMT 2021 Running UCOMP Cookbook all_coronal_7.ckb
Sat Aug 07 20:08:19 GMT 2021 Running UCOMP Cookbook all_coronal_7.ckb
Sat Aug 07 20:08:19 GMT 2021 Running UCOMP Cookbook all_coronal_7.ckb

WEATHER COMMENT: mcotter: Sat Aug 07 20:26:25 GMT 2021

Altocumulus clouds are forming at various places across the sky, mostly to the east. Aerosols continue to increase.
____end____

Sat Aug 07 20:27:01 GMT 2021 Running UCOMP Cookbook all_coronal_7.ckb
Sat Aug 07 20:37:45 GMT 2021 UCOMP Paused for clouds

GENERAL COMMENT BY mcotter: Sat Aug 07 20:40:43 GMT 2021

Kcor and Ucomp instruments currently paused for passing clouds.
____end____

Sat Aug 07 20:51:53 GMT 2021 UCOMP Restarted from pause
Sat Aug 07 20:55:43 GMT 2021 UCOMP Paused for clouds

WEATHER COMMENT: mcotter: Sat Aug 07 21:03:28 GMT 2021

Clouds have increased dramatically and are now covering most of the summit of Maunaloa.
The dome shutter doors and windows have been closed at this time.
____end____

WEATHER COMMENT: mcotter: Sat Aug 07 21:04:57 GMT 2021

Winds have increased and are now blowing steady, with an occasional gust, from the northwest.
____end____

WEATHER COMMENT: mcotter: Sat Aug 07 21:12:13 GMT 2021

****NOTE**** - Thick clouds of smoke or dust can clearly be seen at lower elevation on the leeward side of the Big Island. The smoke/dust clouds stretch from Waimea in the north to past Hualalai in the south. I have been observing the formation for over thirty minutes and the smoke/ dust is rapidly making it's way into the interior and up in to the Saddle Valley.
____end____

WEATHER COMMENT: mcotter: Sat Aug 07 21:37:41 GMT 2021

The smoke/dust clouds have gained elevation and are now in the Western Saddle Valley. The clouds are dense and are completely blocking the view of the western shoreline of the Big Island, the Kohala Mountains, Wiakoloa and the lower parts of Hualalai. Additionally, the Pohakaloa Military Base is becoming obscured by the smoke/dust clouds. Winds continue to blow steady from the northwest and continue to carry the smoke and dust up in to the Saddle Valley and higher elevations beyond.
____end____

WEATHER COMMENT: mcotter: Sun Aug 08 00:40:29 GMT 2021

Temp: 45.8f, Humidity: 97%, Pressure: 28.718in, Wind: 6mph from 341degs, Skies: The sky is completely overcast with dark gray rainclouds. A medium rain is falling steadily and fog and mist are blowing through the science area. A very noticeable smell of smoke is in the air.
____end____

Sun Aug 08 00:54:51 GMT 2021 UCoMP Restarted from pause

GENERAL COMMENT BY mcotter: Sun Aug 08 01:06:10 GMT 2021

Emptied the trash containers in the dome and control room. Changed out the tack pad in the dome vestibule area.

____end____

GENERAL COMMENT BY mcotter: Sun Aug 08 01:18:04 GMT 2021

The early morning hours were quite clear and beautiful. At approximately 10:30 am HST Altocumulus clouds began to form over the Maunaloa summit and pretty quickly after that the sky was covered and the instruments were paused. By late morning the sky started turning a dark gray and the dome shutter doors and windows were closed. From late morning until approximately 14:00pm HST smoke/ dust could be observed on the down slopes of Maunakea and Maunaloa toward the Kohala Coast steadily making its way inland toward the Saddle Valley. The smoke and dust finally made its way up to higher altitude and became quite noticeable, blocking out all viewing of the leeward side of the Big Island and the Saddle Valley accompanied by the strong smell of smoke.

____end____

ONSITE STAFF: mcotter