
Mauna Loa Solar Observatory Observer's Log

Wed Feb 12 17:13:10 GMT 2020

Year: 20 Doy: 043

Observer: berkey

WEATHER COMMENT: berkey: Wed Feb 12 17:15:22 GMT 2020

Temp: 30.9f, Humidity: 66%, Pressure: 28.623in, Wind: 1mph from 116degs, Skies: overcast to the east. Some ice/snow on the road for the last 2 miles. T-storms in Hilo.

____end____

GPS COMMENT by MLSO: Wed Feb 12 21:45:07 GMT 2020

Successfully logged in to system

Good disk mount

GPS software running

Last 5 GPS data files are:

dataoutiq_2020_038_2226.bin 2147483647

dataoutiq_2020_039_2226.bin 2147483647

dataoutiq_2020_040_2226.bin 2147483647

dataoutiq_2020_041_2145.bin 2147483647

dataoutiq_2020_042_2145.bin 2147483647

____end____

GENERAL COMMENT BY berkey: Thu Feb 13 22:35:15 GMT 2020

PM Blew off Kcor 01 and opened windows up stairs.

____end____

Wed Feb 12 22:40:35 GMT 2020 SGS Alignment complete

Wed Feb 12 22:41:28 GMT 2020 Kcor Focus/alignment program exited

GENERAL COMMENT BY berkey: Wed Feb 12 22:54:06 GMT 2020

Had the dome rotator set to run the wrong way so we drove the dome into the beam instead of away when the edge was detected

____end____

Wed Feb 12 23:51:07 GMT 2020 KCOR Start Synoptic Patrol

GENERAL COMMENT BY berkey: Thu Feb 13 00:13:16 GMT 2020

Interesting loop near PA 300

____end____

Thu Feb 13 00:25:55 GMT 2020 KCOR End Patrol

Thu Feb 13 00:26:00 GMT 2020 KCOR End Patrol

GENERAL COMMENT BY berkey: Thu Feb 13 00:38:33 GMT 2020

Added some aeronet data to the wahoo (TV monitor) weather. charts display.

The aeronet sensors while live on cement pad on the west side of the board walk. Measure aerosols which I think could correlate to kcor performance. The nasa aeronet processing pipeline takes ~30 minutes to update the graphs so these are not helpful in realtime decision making but there does seem to be a correlation between the AOD values and aerosols in Kcor. So I would like to try and get a better feel for what kind of aerosols optical depth we need to make kcor happy, and which wavelengths are the most important for this.

The graph on the left L1 shows all the aerosol data for the day. The L1.5 graph passes his data thru a cloud filter and only plots data plots "clear" skies. Today for example we had heavy overcast in the morning with AOD values of about 2.5 and clear skies in the afternoon of ~.02-1. With the L1 scaling the afternoon measurements just look like noise around 0.

But with the L1.5 gating of clouds the graph fails to show a window of clouds that came around 23UT.

____end____

Thu Feb 13 00:38:39 GMT 2020 KCOR Start Synoptic Patrol

Thu Feb 13 00:39:04 GMT 2020 KCOR End Patrol

Thu Feb 13 00:39:05 GMT 2020 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

KCOR COMMENT BY berkey: Thu Feb 13 00:52:38 GMT 2020

Clouds passed thru the calibrations ~00:50 UT

____end____

Thu Feb 13 00:54:19 GMT 2020 KCOR End Calibration Script

Thu Feb 13 00:54:36 GMT 2020 KCOR Start Synoptic Patrol

Thu Feb 13 00:54:36 GMT 2020 KCOR Start Synoptic Patrol

Thu Feb 13 01:01:29 GMT 2020 KCOR End Patrol

GENERAL COMMENT BY berkey: Thu Feb 13 01:03:18 GMT 2020

The clouds that block disrupted the calcs, was actually a snow flurry blowing down the hill. Got the dome just before the snow got here.

____end____

GENERAL COMMENT BY berkey: Thu Feb 13 01:27:04 GMT 2020

Swapped out the French Trimble COSMIC gps unit per request from Jan.

____end____

ONSITE STAFF: berkey