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Mauna Loa Solar Observatory Observer's Log  
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Wed Dec 5 16:48:53 GMT 2018

Year: 18 Doy: 339

Observer: waters

WEATHER COMMENT: waters: Wed Dec 05 17:13:44 GMT 2018

Temp 38F with windspeed at about 18-24mph from the South-Southeast. Wind may be higher than what we are seeing as the anemometer is being blocked by our building. Sky looks clear at present.

\_\_\_\_end\_\_\_\_

WEATHER COMMENT: waters: Wed Dec 05 17:39:19 GMT 2018

Waiting for the wind to calm down a bit before opening the dome.

\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY berkey: Wed Dec 05 18:05:22 GMT 2018

For a test to see how the kcor summed fits images look with and without the Lookup tables applied. A new version of socketcam was built called socketcam-no-lut.exe which sets

#undef DO\_LUT0

#undef DO\_LUT1

set.

Unfortunately during the compiling of the no LUT version it looks like we briefly overwork the operational socketcam.exe with a debug version :(. But this has been reverted back to the proper the July, 10 2015 version of socketcam.

In Labview land we made a couple changes to the fits header to better help track which socket cam version we are running.

A new keyword SOCKETCA was also created which now contains the file name of the socketcam executable used to take data. So for now this should either be socketcam.exe or socketcam-no-lut.exe

The old OBSSWID keyword which was hard coded to 1.0.6 (for some reason which I forget) now has the date modified for socketcam. So until socketcam is recompiled this should be 7/10/2015 10:42:13 AM for socketcam and 12/4/2018 6:04:26 PM for socketcam-no-lut.exe

\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY waters: Wed Dec 05 18:22:33 GMT 2018

Dome opened but still a little so we are taking some darks and flats for the Lookup table test.

\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY berkey: Wed Dec 05 18:43:59 GMT 2018

Starting with no lut socket cam.

Flats

18:25:04-> 18:28:52

Darks:

18:29:22->18:33:40

Switched to socketcam

Darks:

18:34:52->18:38:39

Flats:

18:39:25->18:43:43

\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY berkey: Wed Dec 05 19:09:11 GMT 2018

Using the dome shutter and pointing out of the wind we are finally getting to the point of having acceptable spar guiding

\_\_\_\_end\_\_\_\_

KCOR COMMENT BY berkey: Wed Dec 05 19:09:35 GMT 2018

Reconfiguring to socketcam-no-lut.exe

Going to take a couple science images then run a calibration sequence.

\_\_\_\_end\_\_\_\_

Wed Dec 05 19:09:57 GMT 2018 SGS Alignment complete

Wed Dec 05 19:11:23 GMT 2018 Kcor Focus/alignment program exited

GENERAL COMMENT BY waters: Wed Dec 05 19:12:37 GMT 2018

PM Blew off Kcor O1

\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY waters: Wed Dec 05 19:13:09 GMT 2018

Windows opened upstairs

\_\_\_\_end\_\_\_\_

Wed Dec 05 19:14:07 GMT 2018 KCOR Start Synoptic Patrol

Wed Dec 05 19:20:10 GMT 2018 KCOR End Patrol

Wed Dec 05 19:20:11 GMT 2018 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

GENERAL COMMENT BY waters: Wed Dec 05 19:31:31 GMT 2018

Shabar sensor being blocked by the dome at the moment. Will start back up once we are out of our shutter configuration.

\_\_\_\_end\_\_\_\_

GENERAL COMMENT BY waters: Wed Dec 05 19:32:12 GMT 2018

The open loop hepa is sounding funny. Changed the max speed to low.

\_\_\_\_end\_\_\_\_

Wed Dec 05 19:35:28 GMT 2018 KCOR End Calibration Script

GENERAL COMMENT BY waters: Wed Dec 05 19:35:23 GMT 2018

Open loop hepa motor sounds like it's starting to fail; according to the logs, the closed loop hepa motor failed in October 2017.

\_\_\_\_end\_\_\_\_

Wed Dec 05 19:35:45 GMT 2018 KCOR Start Synoptic Patrol

Wed Dec 05 19:35:45 GMT 2018 KCOR Start Synoptic Patrol

Wed Dec 05 19:38:29 GMT 2018 KCOR End Patrol

GENERAL COMMENT BY berkey: Wed Dec 05 19:43:53 GMT 2018

Re-configuring for normal LUT operations.

\_\_\_\_end\_\_\_\_

Wed Dec 05 19:45:15 GMT 2018 KCOR Start Synoptic Patrol

Wed Dec 05 19:45:49 GMT 2018 KCOR End Patrol

Wed Dec 05 19:46:15 GMT 2018 KCOR Start Synoptic Patrol

Wed Dec 05 20:38:10 GMT 2018 KCOR End Patrol

Wed Dec 05 20:38:11 GMT 2018 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Wed Dec 05 20:53:29 GMT 2018 KCOR End Calibration Script

Wed Dec 05 20:53:46 GMT 2018 KCOR Start Synoptic Patrol

Wed Dec 05 20:53:46 GMT 2018 KCOR Start Synoptic Patrol

Wed Dec 05 21:17:31 GMT 2018 KCOR End Patrol

Wed Dec 05 21:17:47 GMT 2018 SGS Alignment complete

Wed Dec 05 21:17:46 GMT 2018 KCOR Start Synoptic Patrol

Wed Dec 05 21:55:59 GMT 2018 KCOR End Patrol  
Wed Dec 05 21:56:16 GMT 2018 SGS Alignment complete  
Wed Dec 05 21:56:15 GMT 2018 KCOR Start Synoptic Patrol  
Wed Dec 05 22:00:31 GMT 2018 KCOR End Patrol  
Wed Dec 05 22:00:46 GMT 2018 SGS Alignment complete  
Wed Dec 05 22:00:49 GMT 2018 KCOR Start Synoptic Patrol  
Thu Dec 06 02:23:45 GMT 2018 KCOR End Patrol  
GENERAL COMMENT BY waters: Thu Dec 06 02:28:57 GMT 2018  
Good day today, seeing stayed nice and the wind kept the aerosols low.  
\_\_\_\_end\_\_\_\_  
ONSITE STAFF: berkey, waters