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Mauna Loa Solar Observatory Observer's Log  
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Mon Jul 15 16:37:28 GMT 2019

Year: 19 Doy: 196

Observer: berkey

WEATHER COMMENT: berkey: Mon Jul 15 16:43:10 GMT 2019

Temp: 45.4f, Humidity: 24%, Pressure: 28.697in, Wind: 5mph from 171degs, Skies: patchy cirrus moving around the sky but mostly clear

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

GENERAL COMMENT BY berkey: Mon Jul 15 16:43:22 GMT 2019

PM Blew off Kcor 01 and opened windows upstairs

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

Mon Jul 15 16:59:12 GMT 2019 SGS Alignment complete

Mon Jul 15 17:00:08 GMT 2019 Kcor Focus/alignment program exited

KCOR COMMENT BY berkey: Mon Jul 15 17:18:53 GMT 2019

Mod state ok

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

Mon Jul 15 17:19:50 GMT 2019 KCOR Start Synoptic Patrol

Mon Jul 15 18:38:53 GMT 2019 KCOR End Patrol

Mon Jul 15 18:38:55 GMT 2019 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Mon Jul 15 18:54:11 GMT 2019 KCOR End Calibration Script

Mon Jul 15 18:54:28 GMT 2019 KCOR Start Synoptic Patrol

Mon Jul 15 18:54:30 GMT 2019 KCOR Start Synoptic Patrol

Mon Jul 15 20:25:56 GMT 2019 KCOR End Patrol

Mon Jul 15 20:31:41 GMT 2019 SGS Alignment complete

Mon Jul 15 20:31:43 GMT 2019 Kcor Focus/alignment program exited

Mon Jul 15 20:32:20 GMT 2019 KCOR Modulation started in the proper state

Mon Jul 15 20:45:51 GMT 2019 KCOR Start Synoptic Patrol

GENERAL COMMENT BY berkey: Mon Jul 15 21:51:00 GMT 2019

Clouds starting to come up a little west of the obs.

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

Mon Jul 15 21:53:01 GMT 2019 KCOR End Patrol

Mon Jul 15 22:16:11 GMT 2019 KCOR Modulation started in the proper state

GENERAL COMMENT BY berkey: Mon Jul 15 22:33:29 GMT 2019

Closing the dome.

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

KCOR COMMENT BY berkey: Mon Jul 15 23:22:11 GMT 2019

Added some logic to kcor to detect and log when kcor starts up in the correct modulation state.

Code looks to see if the sum of all the pixels in CAM0 MOD1 > CAM0 MOD0. And if that is the case check if (MOD1-MOD0)/MOD1 > .1 Once this condition is observed the comment: KCOR Modulation started in the proper state is sent to the log.

And a flag is raised to stop checking.

Based on testing and a few years of anecdotal data; we expect to see >15% different between MOD1 and MOD0 with the CALPOL in the beam. And > 50% when CALPOL+DIFFSER is in the beam.

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

ONSITE STAFF: berkey