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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 mo
stly clear
___end___
GENERAL COMMENT BY berkey: Mon Jul 15 16:43:22 GMT 2019
PM Blew off Kcor O1 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)/M
OD1 >  .1  Once this condition is observered 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 anecodatal data; we exect 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
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