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          Mauna Loa Solar Observatory Observer's Log
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          Sat Jan 23 17:23:57 GMT 2021
Year: 21  Doy: 023
Observer: berkey
WEATHER COMMENT: berkey: Sat Jan 23 17:26:06 GMT 2021
Temp: 36.0f, Humidity: 12%, Pressure: 28.746in, Wind: 11mph from 159degs, Skies: patchy cirrus covering the sky.  Startup
of kcor will be delayed.
___end___
GPS COMMENT by MLSO: Sat Jan 23 21:45:08 GMT 2021
Successfully logged in to system
Unable to mount disk
GPS software failure to start
___end___
UCoMP COMMENT BY berkey: Sun Jan 24 02:29:57 GMT 2021
Most of the morning was spent bring up and verifying UCoMP subsystems.

Shutter:  After swapping the +/-28V input leads on the Uniblitz board the shutter was found to be functional.    In softwa
re the  DAQ addresses to the shutter were hardwired to the old Boulder values.  The code was updated to read routes out of
 the instrument_config.ini and the routes in the ini file where updated to reflect the MLSO as built DAQ routes.

Cameras:  When running the full observing code/camera setup code an error was thrown while tying to get/set attributes.  T
his was traced down to having the wrong camera_config.fmt file.  Looks like the camera config files explicitly describe/re
ference individual cameras (SN not model numbers).   And I think this is the first time we have tried to bring up the whol
e system with the new camera.    This issues was fixed (after much head scratching) by going into XCAP and exporting a new
 format file that describes the as deployed cameras from the XCAP PIXCI Menu ->  "PIXCI Export Video Setup"    Once we sta
rted pointing the instrument_config.ini file at this new format file the cameras appear to be working properly.

We also change the default camera NUC from normal (nothing) to Offset+Gain correction.   Perviously this was hard coded in
to the camera initialization code.  The NUC is now configurable in the instrument_config.ini, and captured in the fits hea
ders as the TCAMNUC, RCAMNUC keywords.


Filter wheel: Filter wheel was found to be unresponsive thru the ASCOM routes.  I am not sure what failed, as we could sti
ll talk to it via the provided filter wheel controller application.   I was also able to talk to the wheel via python thru
 the same utilities we are using to control the Chromag filter wheels.   With no obvious way to fix the ASCOM control of t
he wheels, I implemented some new VI's that call the python move code to replace the code we were using for filter wheel c
ontrol in Boulder.

Lyot filter:  The lyot filter was rotated to is alignment pin

Manual Occulter alignment code:  Code to take a dark (saved in memory not written to disk) at the beginning of the occulte
r alignment and apply that dark to the streaming images was implement.


T-Cam focus on the occulter was attempted but even in the thinnest cirrus we had to day the diffuser signal was to variabl
e and faint to make any assements.
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___end___
GENERAL COMMENT BY berkey: Sun Jan 24 02:30:12 GMT 2021
Skies never fully cleared so no data today.
___end___
ONSITE STAFF: berkey