
Mauna Loa Solar Observatory Observer's Log

Tue Apr 5 17:25:09 GMT 2022

Year: 22 Doy: 095

Observer: berkey

WEATHER COMMENT: berkey: Tue Apr 05 17:25:19 GMT 2022

Temp: 38.8f, Humidity: 70%, Pressure: 28.719in, Wind: 1mph from 184degs, Skies: heavy overcast

____end____

UCoMP COMMENT BY berkey: Tue Apr 05 18:39:23 GMT 2022

Swapped out the O1 focus cable, for the new one that Damon built for us. The original one was damaged and repaired during work with the O1 last year.

____end____

Wed Apr 06 00:06:00 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Apr 06 00:11:03 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Apr 06 00:31:31 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Apr 06 00:44:24 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Apr 06 01:05:18 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

UCoMP COMMENT BY berkey: Wed Apr 06 01:14:17 GMT 2022

Spent the morning trying to get the UCoMP O1 mdrive control more robust.

In the mDrive controller change the logic to automatically home if we hit a limit and to better handle error conditions. On the labview side some changes were made to how we call O1 to reduce conflicts and hopefully get less issues with O1.

Testing now.

____end____

Wed Apr 06 01:20:54 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal.cbk line 0

UCoMP COMMENT BY berkey: Wed Apr 06 01:37:28 GMT 2022

Checked the camera baffles. Both looked good, so I suspect there was no light leaks.

Took tcam felt baffle off and reseated felt to give even better light blocking.

____end____

Wed Apr 06 01:39:59 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Apr 06 01:46:08 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Apr 06 01:54:51 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Apr 06 01:54:58 GMT 2022 UCoMP Paused for clouds

Wed Apr 06 02:00:01 GMT 2022 UCoMP Restarted from pause

UCoMP COMMENT BY berkey: Wed Apr 06 02:00:51 GMT 2022

Added in a "taking data" indicator around the edge of the main UCoMP GUI.

If we aren't running cookbooks the outer border/background of the GUI will turn system Gray (Same color it was before).

If we are in the mode running cookbooks and we are getting data written out to disk the outer boarder/background will turn green.

If we are in the mode of running cookbooks but we haven't seen any images written to disk in 1 minute the outer border/background will turn red. Under normal conditions it looks like UCoMP is writing data at a rate of at least once a minute; even if we are moving multiple mechanism.

This should help call the observers attention to off-nominal conditions.

A gray background when we are expecting data should call our attention to the idea that we might need to click the run cookbook button (or something).

A red background will show up if we are in "Clouds", running mechanism heavy states, o

r waiting on the ND filter to be installed.

If we are in normal observing conditions and the background becomes red it is probably in a faulted state. Best practice may be to wait 30 seconds-2 minutes to see if things automatically clear up. But if a few minutes have passed after the screen went red, it is safe to assume something is faulted.

____end____

Wed Apr 06 02:03:26 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Apr 06 02:03:57 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 2

Wed Apr 06 02:04:17 GMT 2022 UCOMP Paused for clouds

Wed Apr 06 02:05:12 GMT 2022 UCOMP Restarted from pause

Wed Apr 06 02:07:57 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

Wed Apr 06 02:10:54 GMT 2022 Running UCOMP Cookbook all_wavelength_coronal_flat.cbk line 0

GENERAL COMMENT BY berkey: Wed Apr 06 02:14:34 GMT 2022

No data today.

Dome wasn't opened.

____end____

ONSITE STAFF: berkey