```
-------------------------------------------------------------------------------
              Mauna Loa Solar Observatory Observer's Log
-------------------------------------------------------------------------------
          Mon Oct 18 17:11:56 GMT 2021
Year: 21  Doy: 291
Observer: berkey
WEATHER COMMENT: berkey: Mon Oct 18 17:11:55 GMT 2021
Temp: 43.5f, Humidity: 51%, Pressure: 28.791in, Wind: 7mph from 207degs, Skies: mostly clear with patchy cirrus in the sou
th.
___end___
GENERAL COMMENT BY berkey: Mon Oct 18 17:25:57 GMT 2021
PM Blew off Kcor O1
___end___
GENERAL COMMENT BY berkey: Mon Oct 18 17:26:00 GMT 2021
PM Blew off UCoMP O1
___end___
Mon Oct 18 17:32:00 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0
Mon Oct 18 17:32:13 GMT 2021 Kcor Focus/alignment program exited
Mon Oct 18 17:33:17 GMT 2021 Running UCOMP Cookbook 637_Scan.cbk line 0
Mon Oct 18 17:35:43 GMT 2021 Running UCOMP Cookbook 656_Scan.cbk line 0
Mon Oct 18 17:37:44 GMT 2021 Running UCOMP Cookbook 789_Scan.cbk line 0
Mon Oct 18 17:39:48 GMT 2021 Running UCOMP Cookbook 1074_Scan.cbk line 0
Mon Oct 18 17:41:52 GMT 2021 Running UCOMP Cookbook 1079_Scan.cbk line 0
Mon Oct 18 17:43:54 GMT 2021 Running UCOMP Cookbook 1083_Scan.cbk line 0
Mon Oct 18 17:44:37 GMT 2021 Kcor Focus/alignment program exited
Mon Oct 18 17:45:57 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal_flat.cbk line 0
Mon Oct 18 18:11:14 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0
GONG COMMENT BY berkey: Mon Oct 18 18:46:30 GMT 2021
Gong shelter powered down for NIST electrical work.
___end___
Mon Oct 18 19:18:55 GMT 2021 Running UCOMP Cookbook dark_80ms_2beam_16sums_BOTH.cbk line 0
Mon Oct 18 19:20:12 GMT 2021 Running UCOMP Cookbook 637_Pol_Calibrate.cbk line 0
Mon Oct 18 19:24:52 GMT 2021 Running UCOMP Cookbook 656_Pol_Calibrate.cbk line 0
Mon Oct 18 19:29:08 GMT 2021 Running UCOMP Cookbook 789_Pol_Calibrate.cbk line 0
Mon Oct 18 19:33:28 GMT 2021 Running UCOMP Cookbook 1074_Pol_Calibrate.cbk line 0
Mon Oct 18 19:37:47 GMT 2021 Running UCOMP Cookbook 1079_Pol_Calibrate.cbk line 0
Mon Oct 18 19:42:03 GMT 2021 Running UCOMP Cookbook 1083_Pol_Calibrate.cbk line 0
Mon Oct 18 19:46:21 GMT 2021 Running UCOMP Cookbook waves_1074_1hour.cbk line 0
Mon Oct 18 20:42:27 GMT 2021 Running UCOMP Cookbook dark_200_1sums_80ms.cbk line 0
Mon Oct 18 20:47:28 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal_flat.cbk line 0
Mon Oct 18 21:13:04 GMT 2021 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0
Mon Oct 18 21:47:04 GMT 2021 UCoMP Paused for clouds
GENERAL COMMENT BY berkey: Mon Oct 18 21:47:04 GMT 2021
Was down in the gong shelter when clouds came in.  We got a few minutes of cloud data.
___end___
Mon Oct 18 23:59:09 GMT 2021 UCoMP Restarted from pause
GENERAL COMMENT BY berkey: Tue Oct 19 00:00:53 GMT 2021
Swapped spar control over to the new guider.  This requried  a change in the guider polarity.
```

On the north face of the spar.
RA=False
DEC = True

Perviously on on the South face of the spar polarity was
RA=True
DEC=False

Changes applied to c:\sgs\sgsconfig.ini to make them "permanent".

Based on testing between clouds shows the guider is working as expect.

We will notice a difference between two systems. The new guider sees the sun at ~8V where the old guider had ~6.2V.   Also the new guider is centered (near) the current pointing of kcor so RA/DEC offsets are will hopefully be closer to zero.
Right now it look like RA=0, Dec=40 (at least at 2pm).
___end___
UCoMP COMMENT BY berkey: Tue Oct 19 00:51:15 GMT 2021
Swapped out the raid controller for a megaraid controller. This should provide better monitoring, and matches the model used on the other raid controllers on the mountain. We currently no spare for the controller, but in a pinch could borrow the dusk raid board for one of the the instrumetns while we reordered a replacment for dusk.
___end___
GONG COMMENT BY berkey: Tue Oct 19 01:50:06 GMT 2021
Installed the gong Halpha filter. There was a mis-alignment issue, waiting for advice from Gong Ops.
___end___
GENERAL COMMENT BY berkey: Tue Oct 19 02:18:22 GMT 2021
I forgot that inverting the RA also flips the open loop direction.
With the new guider the RA openloop rate needs to be -0.372 (not +0.372)

Default values for Open loop RA/DEC rates can now be controlled in the sgsconfig.ini
___end___
UCoMP COMMENT BY berkey: Tue Oct 19 02:50:07 GMT 2021
attempt to install updates on ucomp. System is not coming backup as quick as expected. Going to leave it overnight to see
 if things improve.
___end___
ONSITE STAFF: berkey