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Mauna Loa Solar Observatory Observer's Log  
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Mon Oct 7 17:01:11 GMT 2013

Year: 13 Doy: 280

Observer: berkey

WEATHER COMMENT: berkey: Mon Oct 7 17:01:15 GMT 2013

temp 46f, very light from the SE, patchy but thinning cirrus.

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

Mon Oct 7 17:07:23 GMT 2013: PSPT Start Patrol

Mon Oct 07 17:30:22 GMT 2013 KCOR Start Synoptic Patrol

Mon Oct 07 17:28:55 GMT 2013 COMP Start Patrol

KCOR COMMENT BY berkey: Mon Oct 7 17:35:21 GMT 2013

Accidently clicked then unclicked the stop and return button when I was trying to stop the science button. I managed to cancel the stop and return but I cannot uncheck the science button

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

KCOR COMMENT BY berkey: Mon Oct 7 17:40:38 GMT 2013

Stop button on the synoptic acquisition mode vi has been moved to the lower right far way from the science button.

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

KCOR COMMENT BY berkey: Mon Oct 7 17:42:26 GMT 2013

I made a change to the k-cor calibration code on Saturday to try and get the CALPOL angle in the headers correctly. The change did not work and we still missed at least one of the calpol changes. Worse the position values reported are wrong by a factor of 352.157 (the gearing ratio for the calpol). Post observing on Saturday this was corrected and calpol positions appear to have the correct factor again. The calibration code was also changed at that time to try another technique to FORCE the calpol to update into the fits header. It will be tested today.

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

Mon Oct 07 17:49:09 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini

KCOR COMMENT BY berkey: Mon Oct 7 17:47:26 GMT 2013

Running a 22.5 degree calibration now. Sky conditions are poor so this is mostly a test of the calpang fits keyword instead of a good data calibration.

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

Mon Oct 7 17:49:44 GMT 2013: PSPT Start Patrol

Mon Oct 07 18:03:18 GMT 2013 COMP End Patrol

Mon Oct 07 18:10:55 GMT 2013 KCOR End Calibration Script

Mon Oct 07 18:09:17 GMT 2013 COMP Start Patrol

Mon Oct 07 18:11:19 GMT 2013 KCOR Start Synoptic Patrol

Mon Oct 07 18:16:38 GMT 2013 KCOR End Patrol

KCOR COMMENT BY berkey: Mon Oct 7 18:14:38 GMT 2013

CALPANG change didnt work. No record of 66.5 in the fits headers.

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

Mon Oct 07 18:20:29 GMT 2013 COMP End Patrol

Mon Oct 07 19:09:40 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini

Mon Oct 7 19:29:35 GMT 2013: PSPT Abort Patrol

Mon Oct 7 19:29:39 GMT 2013: PSPT Abort Patrol

Mon Oct 07 19:31:33 GMT 2013 KCOR End Calibration Script

Mon Oct 07 19:31:58 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini

Mon Oct 07 19:53:56 GMT 2013 KCOR End Calibration Script

Mon Oct 07 19:54:04 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini

Mon Oct 07 20:15:57 GMT 2013 KCOR End Calibration Script  
Mon Oct 07 20:17:47 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini  
Mon Oct 07 20:39:42 GMT 2013 KCOR End Calibration Script  
Mon Oct 07 20:42:35 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini  
Mon Oct 7 20:44:56 GMT 2013: PSPT Start Patrol  
Mon Oct 07 21:04:31 GMT 2013 KCOR End Calibration Script  
Mon Oct 07 21:36:49 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini  
Mon Oct 07 21:58:45 GMT 2013 KCOR End Calibration Script  
Mon Oct 07 21:58:45 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini  
Mon Oct 07 22:20:41 GMT 2013 KCOR End Calibration Script  
Mon Oct 07 22:21:35 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini  
Mon Oct 7 22:22:26 GMT 2013: PSPT Abort Patrol  
Mon Oct 07 22:43:32 GMT 2013 KCOR End Calibration Script  
Mon Oct 07 23:00:19 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini  
Mon Oct 07 23:22:15 GMT 2013 KCOR End Calibration Script  
Mon Oct 07 23:22:15 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini  
Mon Oct 07 23:44:11 GMT 2013 KCOR End Calibration Script  
Mon Oct 07 23:56:32 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini  
Tue Oct 08 00:18:27 GMT 2013 KCOR End Calibration Script  
Tue Oct 08 00:18:27 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini  
Tue Oct 08 00:40:18 GMT 2013 KCOR End Calibration Script  
Tue Oct 08 00:53:51 GMT 2013 KCOR Start Calibration script: C:\kcor\mlso-calibration22deg.ini  
KCOR COMMENT BY berkey: Tue Oct 8 03:07:43 GMT 2013

Weather was bad for most of the day. I took a lot of calibrations of the inside of the dome, to try and trace down the source of the FITS header updates for the Calpol.

It looks like more variables than the calpol get effected but I only noticed on the calpol before today.

I am working on changing the way we handle the fits header; with the goal of making it a Functional Global variable instead of a pure global variable.

If this works, the fits header will technically be local to a subvi whos only job is to hold the fits header in a shift register and return or update it as necessary. This should get rid of the synchronization problems we have now. So far I only have a prototype of this vi, so near term observations will risk missing fits updates.

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