
Mauna Loa Solar Observatory Observer's Log

Fri Jul 25 17:09:19 GMT 2014
Year: 14 Doy: 206
Observer: berkey
WEATHER COMMENT: berkey: Fri Jul 25 17:09:22 GMT 2014
temp 52f, wind 6mph from SE, clear skies
___end___
Fri Jul 25 17:20:03 GMT 2014 KCOR Start Synoptic Patrol
CoMP COMMENT BY berkey: Fri Jul 25 17:29:13 GMT 2014
Replaced the ESP300 powersupply fan. But this didnt solve the problem.
\006___end___
Fri Jul 25 17:29:56 GMT 2014: PSPT Start Patrol
Fri Jul 25 17:47:56 GMT 2014 COMP Start Patrol
****EVENT COMMENT BY berkey**** : Fri Jul 25 18:49:15 GMT 2014
Twisiting prominace in the SE seen in gong can also be seen in the kcor data.
___end___
Fri Jul 25 19:13:35 GMT 2014 KCOR End Patrol
Fri Jul 25 19:13:37 GMT 2014 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg.ini
Fri Jul 25 19:29:31 GMT 2014 KCOR End Calibration Script
Fri Jul 25 19:29:47 GMT 2014 KCOR Start Synoptic Patrol
Fri Jul 25 19:29:47 GMT 2014 KCOR Start Synoptic Patrol
Fri Jul 25 20:40:41 GMT 2014 COMP End Patrol
Fri Jul 25 20:44:06 GMT 2014 KCOR End Patrol
Fri Jul 25 20:54:54 GMT 2014 COMP Start Patrol
Fri Jul 25 20:58:44 GMT 2014 KCOR Start Synoptic Patrol
CoMP COMMENT BY berkey: Fri Jul 25 21:14:59 GMT 2014
Found the bad fan. It is a small cooling fan on one of the 36979-01 boards inside the ESP300 enclosure. The board with th
e bad fan is the board that drives the OPAL (slot2). Unfortunately we don.t have spare fan, and the fan is soldered onto
the board making it non-trivial to replace. We do have a second 36979-01 board in the ESP300 that is wired to rotate the
calibration polarizer (slot1); however we do not use the cal-polarizer (and as far as I remember we have never used it at
MLSO). As a temporary fix for the bad fan problem I have removed the bad 36979 from slot 2 and replaced it with the good
one from slot 1. The bad 36979 is on the lab bench waiting. A small software change was required to make this work; in th
e opal move code we check the ESP300 hardware status to see if the opal made it to the commanded position; with the second
 36979 remove the magic numbers change from 604/406 (out/in) and to (705/507).   With these changes CoMP seems to be wo
rking again. .
___end___
GENERAL OBSERVATORY COMMENT BY berkey: Fri Jul 25 21:26:00 GMT 2014
Seeing at least on Kcor seems bad.
Looking toward the sun I see a lot of dust particles or bugs.
___end___
GENERAL OBSERVATORY COMMENT BY berkey: Fri Jul 25 22:33:10 GMT 2014
Sky brightness is increasing.
___end___
GENERAL OBSERVATORY COMMENT BY berkey: Fri Jul 25 23:36:33 GMT 2014
Clouds starting to blow up over the observatory.
___end___

Fri Jul 25 23:52:41 GMT 2014 COMP End Patrol
Fri Jul 25 23:52:41 GMT 2014 COMP Start Patrol
Sat Jul 26 00:06:28 GMT 2014 KCOR End Patrol
Sat Jul 26 00:06:28 GMT 2014 COMP End Patrol
Sat Jul 26 00:09:11 GMT 2014 COMP Start Patrol
Sat Jul 26 00:13:14 GMT 2014 KCOR Start Synoptic Patrol
GENERAL OBSERVATORY COMMENT BY berkey: Sat Jul 26 00:59:06 GMT 2014
Clouds passing between the obs and the sun.
___end___
Sat Jul 26 01:29:03 GMT 2014 KCOR End Patrol
Sat Jul 26 01:31:21 GMT 2014 COMP End Patrol
KCOR COMMENT BY berkey: Sat Jul 26 02:02:50 GMT 2014
I saw some artifacts in the Kcor data so I pulled the O1 to check for bugs (gong’s windowed needed "cleaning" today becasu
e it was covered in insects). No bugs but there was a light dusting of little particles. I blew off the biggest ones.
___end___
Sat Jul 26 02:06:16 GMT 2014: PSPT Abort Patrol