
Mauna Loa Solar Observatory Observer's Log

Mon Mar 18 16:47:40 GMT 2013

Year: 13 Doy: 077

Observer: berkey

WEATHER COMMENT: Mon Mar 18 16:47:42 GMT 2013

Clear skies, temp 32f, wind 15-20 from SW, not much icy and snow on the ground

____end____

Mon Mar 18 17:04:47 GMT 2013: PSPT Start Patrol

MKIV PROBLEM COMMENT BY BEN: Mon Mar 18 17:42:46 GMT 2013

Retarder motor spinning at a slow inconsistent speed. My impression of it is the motor is too cold. Akamai also keeps crashing with a kernel panic I think is related to a bad signal from the retarder motor.

____end____

MKIV COMMENT BY BEN: Mon Mar 18 17:48:04 GMT 2013

Mk4 electronics shut down for a little while

____end____

Mon Mar 18 18:17:54 GMT 2013 COMP Start Patrol

GONG PROBLEM COMMENT BY LISA: Mon Mar 18 18:26:04 GMT 2013

Gong appears to be oscillating. Ben currently going to take a look at it.

____end____

Mon Mar 18 20:29:36 GMT 2013 COMP End Patrol

Mon Mar 18 20:41:31 GMT 2013 COMP Start Patrol

NOTE BY LISA: Mon Mar 18 20:51:09 GMT 2013

Reconfigured dome.

____end____

Mon Mar 18 22:32:06 GMT 2013 COMP End Patrol

WEATHER COMMENT: Mon Mar 18 22:31:59 GMT 2013

Idling instruments due to clouds.

____end____

Mon Mar 18 23:28:06 GMT 2013: PSPT Abort Patrol

Mon Mar 18 23:34:22 GMT 2013: PSPT Start Patrol

Mon Mar 18 23:35:13 GMT 2013 COMP Start Patrol

Mon Mar 18 23:35:23 GMT 2013 MKIV Start Patrol

MKIV COMMENT BY BEN: Mon Mar 18 23:36:54 GMT 2013

The mk4 retarder drive train was found to be tight on almost every element.

Gears were removed and bearings were lubed with tri-flow lubricant.

I also found the retarder optic mount was poorly seated to its bracket which likely led to some of the problem with binding in the drive train.

This has now been reinstalled to its true location.

The retarder can now turn, but I am having other trouble with MK4.

The data look spiky and I don't see a sky signal, and the barrel is getting stuck on the CCW limit before it completes a barrel rotation. Indicated position is 112.17 angle

____end____

Mon Mar 18 23:41:44 GMT 2013

MkIV

23_35.rawmk4

Mauna Loa Solar Observatory Observer's Log

Mon Mar 18 23:45:33 GMT 2013

Year: 13 Doy: 077

Observer: berkey

NOTE BY LISA: Mon Mar 18 23:45:48 GMT 2013

Restarted instruments.

____end____

Mon Mar 18 23:46:05 GMT 2013 MKIV Start Patrol

MKIV COMMENT BY BEN: Mon Mar 18 23:49:01 GMT 2013

Rebooting akamai fixed the spiky ness but not the 112.19 CCW limit problem

____end____

Mon Mar 18 23:53:01 GMT 2013 MKIV End Patrol

Tue Mar 19 00:01:57 GMT 2013 COMP End Patrol

WEATHER COMMENT: Tue Mar 19 00:02:11 GMT 2013

idling due to clouds.

____end____

Tue Mar 19 00:06:48 GMT 2013: PSPT Abort Patrol

Tue Mar 19 00:08:48 GMT 2013 MKIV Start Patrol

Tue Mar 19 00:17:13 GMT 2013 MKIV End Patrol

Tue Mar 19 01:14:51 GMT 2013 MKIV Start Patrol

Tue Mar 19 01:28:33 GMT 2013 MKIV End Patrol

Tue Mar 19 01:50:31 GMT 2013 MKIV End Patrol

MKIV COMMENT BY BEN: Tue Mar 19 02:05:33 GMT 2013

Mk4 limit switch shaft must have got rotated w.r.t the barrel during bearing cleaning. Currently we cannot complete a full scan because barrel runs inot switches before reaching CCW stop.

I think I understand how to fix this, but it will take at least 1 hour so I will do it on Wednesday.

____end____

Tue Mar 19 02:14:25 GMT 2013

MkIV

00_08.rawmk4 23_35.rawmk4 23_46.rawmk4