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Mauna Loa Solar Observatory Observer's Log  
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Fri Jan 1 17:11:30 GMT 2016

Year: 16 Doy: 001

Observer: waters

WEATHER COMMENT: waters: Fri Jan 1 17:11:34 GMT 2016

Temp 41F with windspeed at about 6mph from the West. Cirrus covering the majority of the sky at present. Waiting for better weather before starting.

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

Fri Jan 01 22:33:44 GMT 2016 KCOR Start Synoptic Patrol

GENERAL OBSERVATORY COMMENT BY waters: Fri Jan 1 22:33:35 GMT 2016

Sky looks better from what I can see, so I started Kcor. The data looks okay but not great. Will see how this goes.

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

Fri Jan 01 22:45:02 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Fri Jan 01 22:45:03 GMT 2016 KCOR End Patrol

Fri Jan 01 22:45:17 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Fri Jan 01 22:45:18 GMT 2016 KCOR End Patrol

Fri Jan 01 22:46:43 GMT 2016 KCOR Start Synoptic Patrol

GENERAL OBSERVATORY COMMENT BY waters: Fri Jan 1 22:47:22 GMT 2016

Not entirely sure why the RA drifted before correcting its self. The spar didn't hit anything and the wires didn't feel tight anywhere. And there wasn't anything passing in the sky. Odd...

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

Fri Jan 01 23:24:36 GMT 2016 KCOR End Patrol

Fri Jan 01 23:24:37 GMT 2016 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20150323.ini

\*\*\*\*Possible CME in Progress waters\*\*\*\*: Fri Jan 1 23:29:18 GMT 2016

At 23:02UT between PA 235-260, a cme can be seen launching.

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

You can check out the image data at:

<http://mlso.hao.ucar.edu>

Fri Jan 01 23:41:50 GMT 2016 KCOR End Calibration Script

Fri Jan 01 23:42:07 GMT 2016 KCOR Start Synoptic Patrol

Fri Jan 01 23:42:08 GMT 2016 KCOR Start Synoptic Patrol

GENERAL OBSERVATORY COMMENT BY waters: Fri Jan 1 23:56:03 GMT 2016

I took a calibration during that CME and it looks like we start taking synoptic data right as it finishes snapping.

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

Sat Jan 02 00:28:27 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 00:28:29 GMT 2016 KCOR End Patrol

Sat Jan 02 00:28:42 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 00:28:43 GMT 2016 KCOR End Patrol

Sat Jan 02 00:30:35 GMT 2016 KCOR Start Synoptic Patrol

GENERAL OBSERVATORY COMMENT BY waters: Sat Jan 2 00:29:41 GMT 2016

Lost the RA again and nothing was impeding the spar and nothing was passing in the sky. Could the gear be slipping.

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

Sat Jan 02 00:33:23 GMT 2016 KCOR End Patrol

Sat Jan 02 00:33:30 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 00:33:50 GMT 2016 KCOR End Patrol

Sat Jan 02 00:33:51 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 00:33:52 GMT 2016 KCOR End Patrol

Sat Jan 02 00:35:27 GMT 2016 KCOR Start Synoptic Patrol

GENERAL OBSERVATORY COMMENT BY waters: Sat Jan 2 00:33:49 GMT 2016

The spar started oscillating in the RA direction and then the RA took a dive. Not sure what's going on.

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

Sat Jan 02 00:46:39 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 00:46:40 GMT 2016 KCOR End Patrol

Sat Jan 02 00:46:41 GMT 2016 KCOR End Patrol

Sat Jan 02 00:46:54 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 00:46:55 GMT 2016 KCOR End Patrol

Sat Jan 02 00:49:02 GMT 2016 KCOR Start Synoptic Patrol

GENERAL OBSERVATORY COMMENT BY waters: Sat Jan 2 00:46:39 GMT 2016

Lost the RA again. Right before it hits an error of -2000 arcseconds, it corrects itself and stabilizes. Each time it's happened I've had the live camera feed up to see if I could see anything when it starts and I can't really see anything that might be a trigger.

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

Sat Jan 02 00:53:11 GMT 2016 KCOR End Patrol

Sat Jan 02 00:53:14 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 00:53:15 GMT 2016 KCOR End Patrol

Sat Jan 02 00:53:29 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 00:53:30 GMT 2016 KCOR End Patrol

\*\*GENERAL PROBLEM COMMENT BY waters\*\* : Sat Jan 2 00:56:14 GMT 2016

Lost RA again.

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

Sat Jan 02 00:57:26 GMT 2016 KCOR Start Synoptic Patrol

Sat Jan 02 01:02:35 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 01:02:36 GMT 2016 KCOR End Patrol

Sat Jan 02 01:04:20 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 01:04:22 GMT 2016 KCOR End Patrol

Sat Jan 02 01:05:10 GMT 2016 KCOR Start Synoptic Patrol

Sat Jan 02 01:06:04 GMT 2016 KCOR End Patrol

Sat Jan 02 01:06:07 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 01:06:08 GMT 2016 KCOR End Patrol

Sat Jan 02 01:06:22 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 01:06:23 GMT 2016 KCOR End Patrol

Sat Jan 02 01:06:38 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 01:06:39 GMT 2016 KCOR End Patrol

Sat Jan 02 01:06:53 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 01:06:54 GMT 2016 KCOR End Patrol

Sat Jan 02 01:07:08 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 01:07:09 GMT 2016 KCOR End Patrol

Sat Jan 02 01:07:23 GMT 2016 Kcor sees an SGS Guiding Error closing lens cover

Sat Jan 02 01:07:24 GMT 2016 KCOR End Patrol

\*\*GENERAL PROBLEM COMMENT BY waters\*\* : Sat Jan 2 01:04:19 GMT 2016

Lost the RA again. Since it had taken a very short amount of time between the last two slips, I stayed up stairs and watched the housing that has the RA gears. The center part, that has the teeth slowly increased speed and then after some time decreased to the slow crawl that it normally is at. Also, when looking at the set up, on the top right when looking at the

housing, the small smooth disk that meets the lower larger disk has either some gunk on it or pits. And as of writing this, we lost the RA again.

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

\*\*GENERAL PROBLEM COMMENT BY waters\*\* : Sat Jan 2 01:19:58 GMT 2016

RA lost again.

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

\*\*\*EVENT COMMENT BY waters\*\*\* : Sat Jan 2 01:21:45 GMT 2016

Sun is really active today. Between PA 35-50, PA 75-90 and PA 120-130 there are many changes going on with the prominences on the limbs. So amazing!

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

\*\*GENERAL PROBLEM COMMENT BY waters\*\* : Sat Jan 2 01:24:47 GMT 2016

Lost the RA.

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

GENERAL OBSERVATORY COMMENT BY waters: Sat Jan 2 01:29:01 GMT 2016

It was an awesome day once we were able to take data but I don't think I can handle the RA error slip. Heading down early.

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