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Mauna Loa Solar Observatory Observer's Log  
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Wed May 20 16:46:46 GMT 2015

Year: 15 Doy: 140

Observer: berkey

WEATHER COMMENT: berkey: Wed May 20 16:48:15 GMT 2015

Temp: 47.3f, Humidity: 6%, Pressure: 28.693in, Wind: 5mph from SE, Skies: Heavy cirrus from about 30 degrees north of zenith and south clears skies north of that.

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

Wed May 20 18:13:04 GMT 2015 COMP Start Patrol

GENERAL COMMENT BY berkey: Wed May 20 18:22:21 GMT 2015

Main dome shutter drive has slipped/popped as it got close to the top of its travel range; and is no longer moving. I think the hold down paw have disengaged from the rack. But it is possible that the rolled pin in the drive transmission has sheared. I really hope it is not the pin; and will be super disappointed with our contracting system if it is. We have had the replacement dome for nearly 4 year and it has been on the mountain for month. A-r-g. I will do some more detailed troubleshooting when the NOAA guys get up and I have a second pair of hands/eyes. Until then the skies have cleared and the dome is (stuck) open, so we lets observe the sun.

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

Wed May 20 18:30:23 GMT 2015 KCOR Start Synoptic Patrol

Wed May 20 19:01:11 GMT 2015 KCOR End Patrol

Wed May 20 19:01:12 GMT 2015 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20150323.ini

Wed May 20 19:18:32 GMT 2015 KCOR End Calibration Script

Wed May 20 19:18:49 GMT 2015 KCOR Start Synoptic Patrol

Wed May 20 19:18:49 GMT 2015 KCOR Start Synoptic Patrol

Wed May 20 19:40:42 GMT 2015 KCOR End Patrol

Wed May 20 19:41:49 GMT 2015 KCOR Start Synoptic Patrol

Wed May 20 20:20:19 GMT 2015 KCOR End Patrol

Wed May 20 20:20:25 GMT 2015 COMP End Patrol

GENERAL COMMENT BY berkey: Thu May 21 01:42:55 GMT 2015

Main dome did have an issue with the roller pin in the dome transmission drive train. With Greg's help I was able to remove the transmission and rebuilt it. In trying to remove some of the covers I may have galled the surfaces a bit so we should expect a little more oil leakage from around the back cover. This repair consumed the last roller pin we have on the mountain so I will pick up another spare; even though this should get us through the life of the dome... just like the last time.

In testing the shutter it moved smoothly, but had a few extra clunks near the top of its travel. So if we can stop it about 4" shy of completely open I think we might get a little more life out of that pin.

Checking in with Matt we still don't have a good idea when NSF will finish their process for approving the building work; but things are progressing.....

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

GENERAL COMMENT BY berkey: Thu May 21 01:44:43 GMT 2015

Immediately after our last dome check while we were still piling up the tools. A group from Red Rocks Community College showed up for a tour. Showed them around and may have gotten them a little more excited about science YEA!!!

But now I am exhausted. And the sky is covered with clouds.

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