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Mauna Loa Solar Observatory Observer's Log  
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Wed Aug 10 16:45:56 GMT 2016

Year: 16 Doy: 223

Observer: berkey

WEATHER COMMENT: berkey: Wed Aug 10 16:46:53 GMT 2016

Temp: 45.2f, Humidity: 34%, Pressure: 28.753in, Wind: 13mph from 157degs, Skies: mostly clear with patchy cirrus

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

Wed Aug 10 16:59:28 GMT 2016 COMP Start Patrol on cookbook: synoptic-00007.cbk

Wed Aug 10 17:08:04 GMT 2016 KCOR Start Synoptic Patrol

Wed Aug 10 17:32:24 GMT 2016 KCOR End Patrol

Wed Aug 10 17:38:31 GMT 2016 KCOR Start Synoptic Patrol

Wed Aug 10 19:38:32 GMT 2016 KCOR End Patrol

Wed Aug 10 19:40:35 GMT 2016 COMP End Patrol

Wed Aug 10 19:40:35 GMT 2016 COMP Start Patrol on cookbook: waves-00001.cbk

KCOR COMMENT BY berkey: Wed Aug 10 19:59:52 GMT 2016

Temp baffle installed above near the occulter assembly above the hepa output from the optical tube to help search for the kcor fringe source.

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

GENERAL COMMENT BY berkey: Wed Aug 10 21:04:40 GMT 2016

Added a temp 35mm apature stop in front of the lyot filter. To also try and find finging issues.

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

KCOR COMMENT BY berkey: Wed Aug 10 21:07:41 GMT 2016

Baffle near the occulter didn't change the fringing

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

Wed Aug 10 21:13:04 GMT 2016 COMP End Patrol

Wed Aug 10 21:13:05 GMT 2016 COMP Start Patrol on cookbook: synoptic-00007.cbk

Wed Aug 10 21:22:28 GMT 2016 COMP End Patrol

Wed Aug 10 21:25:12 GMT 2016 SGS Alignment complete

Wed Aug 10 21:25:21 GMT 2016 COMP Start Patrol on cookbook: synoptic-00007.cbk

Wed Aug 10 22:38:23 GMT 2016 KCOR Start Synoptic Patrol

GENERAL COMMENT BY berkey: Wed Aug 10 22:38:21 GMT 2016

Baffles have been removed.

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

KCOR COMMENT BY berkey: Wed Aug 10 23:18:30 GMT 2016

We see fringing go away when the paper apature stop is in the beam.

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

Wed Aug 10 23:30:10 GMT 2016 CoMP Paused for clouds

Wed Aug 10 23:33:07 GMT 2016 KCOR End Patrol

Wed Aug 10 23:43:54 GMT 2016 CoMP Restarted from pause

Wed Aug 10 23:51:56 GMT 2016 KCOR Start Synoptic Patrol

KCOR COMMENT BY berkey: Thu Aug 11 00:11:30 GMT 2016

Based on positive findings from this mornings test the black construction paper apature stop was reinstalled to the front of the lyot. Giving a 35mm enterence into the lyot. Care was given to cutting the apature stop, but the ring isn't a perfect cricle so hopefully we find a better solution.

Quicklook images look a bit dimmer in the near field (Dennis reprints an 80% reduction). And Joan reports very low signal

in the far field.

We made the decision that we would trade the fringes for far field signal over the short term.

Looks like the fringing problem is some sort mis-alignment of one of the baffles in the tube or foreoptics. So hopefully we can sort out which one and solve nip this one for good.

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

KCOR COMMENT BY berkey: Thu Aug 11 00:18:22 GMT 2016

Kcor configuration timeline for today:

17:06->19:44 Stock kcor config

20:00->20:50 Extra paper baffle near the occulting station to take care of the reflection heading back up the beam.

20:06->22:08 35mm Lyot apature stop installed

22:12->23:33 Stock kcor config

22:43-> on 35mm Paper lyot apature stop installed

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

Thu Aug 11 00:20:17 GMT 2016 COMP End Patrol

Thu Aug 11 00:20:17 GMT 2016 COMP Start Patrol on cookbook: waves-00001.cbk

GENERAL COMMENT BY berkey: Thu Aug 11 01:32:37 GMT 2016

Sky brightness is pretty high right now.

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

Thu Aug 11 01:52:34 GMT 2016 COMP End Patrol

Thu Aug 11 01:52:35 GMT 2016 COMP Start Patrol on cookbook: synoptic-00007.cbk

Thu Aug 11 01:54:15 GMT 2016 KCOR End Patrol

Thu Aug 11 02:49:49 GMT 2016 COMP End Patrol