
Mauna Loa Solar Observatory Observer's Log

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 fingin g 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 apatu re stop was reinstalled to the front of the lyot. Giving a 35mm enterence into the l yot. Care was given to cutting the apature stop, but the ring isn't a perfect cricle s o hopefully we find a better solution.

Quicklook images look a bit dimmer in the near field (Dennis reprorts 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 shor t 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 reflecti on 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