```
Mauna Loa Solar Observatory Observer's Log
       Mon Mar 28 17:13:03 GMT 2022
Year: 22 Doy: 087
Observer: mcotter
WEATHER COMMENT: mcotter: Mon Mar 28 17:15:33 GMT 2022
Temp: 40.9f, Humidity: 28%, Pressure: 28.668in, Wind: 4mph from 123 degs, Skies: Relati
vely clear skies but slightly hazy with a thick gray inversion very noticeable on the h
orizon just above Haleakala. Bits of high altitude Cirrus clouds scattered in diferrent
 areas of the sky.
  _end__
GENERAL COMMENT BY mcotter: Mon Mar 28 17:15:38 GMT 2022
Opened windows upstairs
GENERAL COMMENT BY mcotter: Mon Mar 28 17:15:44 GMT 2022
PM Blew off UCoMP 01
  end
GENERAL COMMENT BY mcotter: Mon Mar 28 17:15:49 GMT 2022
PM Blew off Kcor O1
  end
Mon Mar 28 17:17:37 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal_flat.cbk lin
e 0
Mon Mar 28 17:21:22 GMT 2022 Kcor Focus/alignment program exited
UCOMP COMMENT BY mcotter: Mon Mar 28 17:24:14 GMT 2022
Ucomp instrument now running.
 end
KCOR COMMENT BY mcotter: Mon Mar 28 17:25:43 GMT 2022
Kcor instrument now running, though the sky is quite bright.
Polarization checked good: Mid, Bright, Dark, Mid.
 __end_
Mon Mar 28 17:33:11 GMT 2022 UCoMP Paused for clouds
Mon Mar 28 19:16:26 GMT 2022 UCoMP Restarted from pause
Mon Mar 28 19:16:28 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0
Mon Mar 28 19:36:45 GMT 2022 UCoMP Paused for clouds
Mon Mar 28 19:50:39 GMT 2022 UCoMP Restarted from pause
Mon Mar 28 19:53:37 GMT 2022 UCoMP Paused for clouds
Mon Mar 28 20:02:04 GMT 2022 UCoMP Restarted from pause
Mon Mar 28 20:06:44 GMT 2022 Running UCOMP Cookbook all_wavelenght_coronal.cbk line 0
Mon Mar 28 20:09:59 GMT 2022 UCoMP Paused for clouds
WEATHER COMMENT: mcotter: Mon Mar 28 21:13:15 GMT 2022
All morning bands of high altitude Cirrus clouds have been blowing from west to east ma
king their way through the viewing area of the instruments. In order to maximize data b
eing taken I have been starting and stopping the instruments during small breaks of blu
e (clear) sky conditions. While this is a bit time consuming, the data taken by the ins
truments is adding up. There appears on the satellite images a large pattern of Cirrus
still coming our way, so at some point it may get too thick to observe.
WEATHER COMMENT: mcotter: Mon Mar 28 21:21:09 GMT 2022
Along with the bands of high altitude Cirrus making its way in from the west, Orthograp
hic clouds are beginning to come into the viewing area from the north-northeast. Additi
onally, clouds are starting to form then disperse directly above the observatory and ae
rosol levels have increased dramatically, making the sky very bright at this time.
 end
GENERAL COMMENT BY mcotter: Mon Mar 28 21:31:20 GMT 2022
The dome shutter doors and windows have been closed at this time due to adverse sky con
ditions.
 __end_
GENERAL COMMENT BY mcotter: Tue Mar 29 02:32:27 GMT 2022
It has been overcast since late morning, so Ben and I took some time to discuss improve
ments to the spar performance as it relates to flexure, weights & moments and issues re
lating to instrument mounting. While doing this we wanted to determine the amount of fl
exure that was taking place on the base plate of the Kcor instrument where the detector
s are mounted relative to the plane surface of the spar. We had previously mounted a 12
^{\prime} long x 3" wide x 1" thick length of extruded aluminum (80x20) along the north face co
```

rner of the spar that is tangent with the south spar plane to give us additional areas to mount equipment. The extruded aluminum extends approximately 2' lower than the botto

m of the spar. We were able to attach a 90 deg bracket to the bottom section of the ext ruded aluminum that sits perpendicular to the bottom face of the Kcor detector back pla te near its bottom edge. Keeping the spar pointing at zenith we mounted a bolt through the bracket and tightened it into position with the head of the bolt just making contact with the Kcor back plate. When we pointed the spar at east horizon we were able to me asure a gap between the Kcor back plate and the bolt head of approximately .015". We be lieve the flexure to be approximately this value. At this orientation we repositioned the head of the bolt to the just touch the Kcor back plate. When we returned the spar to zenith there was no gap between the bolt head and plate, but a slight bit of positive engagement between the two surfaces. It is cloudy this afternoon so we were unable to confirm if this improved the flexure that we see in the Kcor image data, but we are interested to see the plots for this anomaly the next time we collect data to confirm if the is has made a positive change in the flexure.

___end

GENERAL COMMENT BY mcotter: Tue Mar 29 02:33:24 GMT 2022

Skies are quite overcast with a mist blowing through the area.

___end___

GENERAL COMMENT BY mcotter: Tue Mar 29 02:34:57 GMT 2022

The day started off hazy with high altitude Cirrus prevalent across much of the sky. By late morning clouds blew up from the Saddle Valley and the sky became completely overc ast.

____end___

Tue Mar 29 02:38:22 GMT 2022 UCoMP Restarted from pause ONSITE STAFF: