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Mauna Loa Solar Observatory Observer's Log
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       Sat Dec 26 17:24:24 GMT 2020
Year: 20 Doy: 361
Observer: mlso
WEATHER COMMENT: mcotter: Sat Dec 26 17:27:22 GMT 2020
Temp: 40.8f, Humidity: 30%, Pressure: 28.777in, Wind: 9mph from 204degs, Skies: Mostly clear skies with some clouds on the
horizons. Noticeable blue gray inversion layer on the horizon at the level of Haleakala, or just above.
 end
GENERAL COMMENT BY mcotter: Sat Dec 26 17:52:20 GMT 2020
Opened windows upstairs
 end
GENERAL COMMENT BY mcotter: Sat Dec 26 17:52:27 GMT 2020
PM Blew off Kcor O1
 end
Sat Dec 26 18:04:13 GMT 2020 Kcor Focus/alignment program exited
GENERAL COMMENT BY mcotter: Sat Dec 26 18:07:37 GMT 2020
Kcor up and running.
____end_
Sat Dec 26 20:13:04 GMT 2020 Kcor Focus/alignment program exited
GPS COMMENT by MLSO: Sat Dec 26 21:45:11 GMT 2020
Successfully logged in to system
Good disk mount
GPS software running
Last 5 GPS data files are:
/mnt/usb/dataoutig 2020 356 2338.bin 2147483647
/mnt/usb/dataoutig 2020 357 2338.bin 2147483647
/mnt/usb/dataoutiq_2020_358_2338.bin 2147483647
/mnt/usb/dataoutiq_2020_359_2338.bin 2147483647
/mnt/usb/dataoutig 2020 360 2338.bin 2147483647
Disk usage: /dev/sda1
                                  916.9G
                                            303.1G
                                                      567.2G 35% /mnt/usb
end
Sat Dec 26 22:14:43 GMT 2020 Kcor Focus/alignment program exited
Sun Dec 27 00:15:38 GMT 2020 Kcor Focus/alignment program exited
Sun Dec 27 00:39:10 GMT 2020 Kcor Focus/alignment program exited
GENERAL COMMENT BY mcotter: Sun Dec 27 02:37:20 GMT 2020
At approximately 10:30 the spar started showing signs that it was acting erratically when tracking in the RA. I checked al
1 the connections and they looked fine. I checked the NEMA box components and they seemed to be acting correctly, but I th
ought it could be the RA amplifier. I called Ben to see if we had any spare amplifiers so that I might try and see if that
was the problem. I told him that the RA mechanism was oscillating. Ben suggested that I tighten the RA clutch mechanism
and see if that corrected the problem. The initial problem of the RA motor oscillating did seem to go away, but the RA sti
Il was not tracking properly. While speaking with Ben I told him the status of the spar voltages, and he said they were lo
w. He advised me to check the guider telescope to make sure it was mechanically tight, and it was. Ben then asked me to tr
y and mount the spare guider telescope in place and see if the voltages were correct with the spare, and they were. Ben sa
id that he suspected that the quider telescope was malfunctioning, and suggested we swap the existing quider with the spar
e. I replaced the quider telescope with the spare and aligned the quider telescope to the Kcor focus image while tracking
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with the spar. After a long time of going back and forth with the SGS GUI showing the voltage amplitudes and the Kcor focu

s GUI showing the image of the ocultor I believe I got the guider telescope fairly well aligned. Clouds and fog came in as I was finishing up, so I have no final image to confirm, but while it was still sunny the RA tracking seemed to be workin g properly with voltages around 6.6 volts. The X and Y Guider Zero Set Offsets have changed, so when aligning the ocultor during the focus routine we should expect the numbers to be different.

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ONSITE STAFF: mcotter