
Mauna Loa Solar Observatory Observer's Log

Wed Jul 29 16:29:07 GMT 2020

Year: 20 Doy: 211

Observer: berkey

WEATHER COMMENT: berkey: Wed Jul 29 16:29:13 GMT 2020

Temp: 49.5f, Humidity: 7%, Pressure: 28.556in, Wind: 4mph from 119degs, Skies: clear

____end____

GENERAL COMMENT BY berkey: Wed Jul 29 16:47:25 GMT 2020

Opened windows upstairs

____end____

GENERAL COMMENT BY berkey: Wed Jul 29 16:47:28 GMT 2020

PM Blew off Kcor O1

____end____

Wed Jul 29 17:10:47 GMT 2020 SGS Alignment complete

Wed Jul 29 17:12:07 GMT 2020 Kcor Focus/alignment program exited

Wed Jul 29 17:12:22 GMT 2020 KCOR Start Synoptic Patrol

Wed Jul 29 18:50:37 GMT 2020 Kcor Focus/alignment program exited

Wed Jul 29 18:50:56 GMT 2020 KCOR Start Synoptic Patrol

GPS COMMENT BY berkey: Wed Jul 29 19:01:40 GMT 2020

Per the vendor the Cases GPS has a Y2k like date bug in its firmware. While operating the firmware periodically resets the current date/time from the GPS signal. The date calculation is based on a 10bit week stamp from some epoch, so of any given configuration the timestamps will only be valid for ~20 years (1024 weeks).

Per the instructions the dsp.config BASETIME.GPS_WEEK_REFERENCE value was changed from -1 to 2024. This value should fix the gps date until ~2030, at which time we will have to update the config again. We then used the sbcclient to load this config file into firmware.

This config update appears to have fixed the date/time issue we had over the last week.

During this work we also swapped the gps data disk out with a blank spare. Current disk will be shipped back to Boulder this week.

____end____

Wed Jul 29 19:01:52 GMT 2020 KCOR End Patrol

Wed Jul 29 19:01:53 GMT 2020 KCOR Start Calibration script: c:\kcor\mlso-calibration22deg-20171025.ini

Wed Jul 29 19:17:07 GMT 2020 KCOR End Calibration Script

Wed Jul 29 19:17:23 GMT 2020 KCOR Start Synoptic Patrol

Wed Jul 29 19:17:24 GMT 2020 KCOR Start Synoptic Patrol

Wed Jul 29 20:18:07 GMT 2020 KCOR End Patrol

Wed Jul 29 20:18:08 GMT 2020 KCOR End Patrol

GENERAL COMMENT BY berkey: Wed Jul 29 20:21:08 GMT 2020

PM Blew off Kcor Field Lens to get rid of a blob in the SW.

____end____

Wed Jul 29 20:21:34 GMT 2020 KCOR Start Synoptic Patrol

GPS COMMENT by MLSO: Wed Jul 29 21:45:10 GMT 2020

Successfully logged in to system

Unable to mount disk

GPS software running

Last 5 GPS data files are:

/mnt/usb/dataoutiq_2018_012_2143.bin 2147483647

/mnt/usb/dataoutiq_2018_013_2143.bin 2147483647

/mnt/usb/dataoutiq_2018_014_2143.bin 2147483647

/mnt/usb/dataoutiq_2018_015_2143.bin 2147483647

/mnt/usb/dataoutiq_2020_211_1958.bin 265636608

___end___

Thu Jul 30 00:53:15 GMT 2020 KCOR End Patrol

Thu Jul 30 00:54:32 GMT 2020 Kcor Focus/alignment program exited

Thu Jul 30 01:00:41 GMT 2020 KCOR Start Synoptic Patrol

Thu Jul 30 03:41:39 GMT 2020 KCOR End Patrol

GENERAL COMMENT BY berkey: Thu Jul 30 03:46:51 GMT 2020

Nice weather all day.

___end___

ONSITE STAFF: berkey