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--------------------------------------------------------------------------------
          Mauna Loa Solar Observatory Observer's Log
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          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 calulation is based on a 10bit week stamp from some epoch, so of any gi
ven 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 t
his 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
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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
```