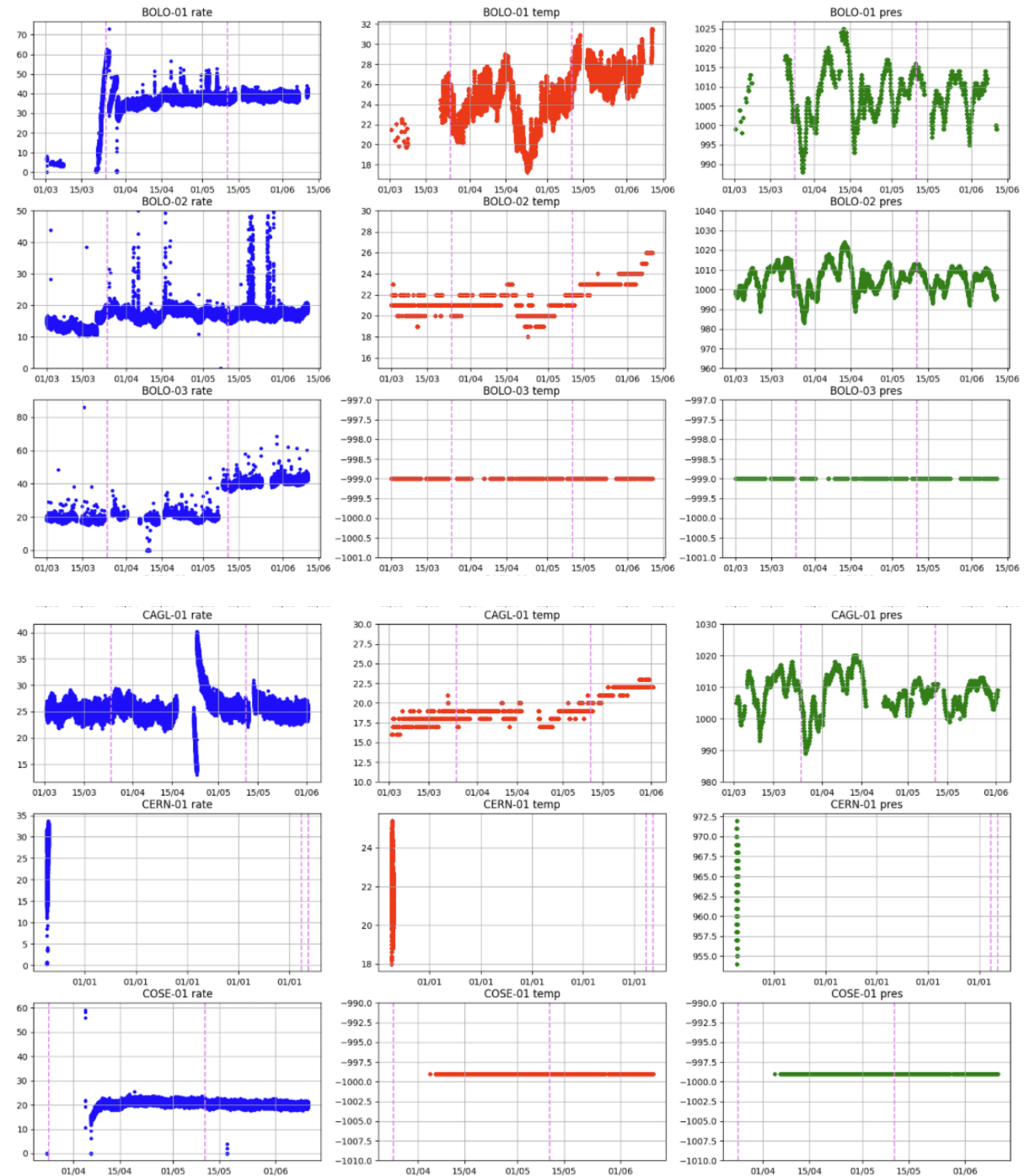
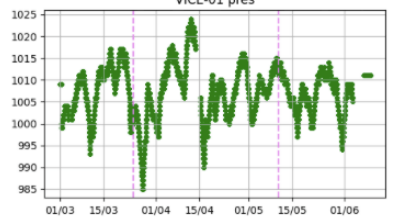
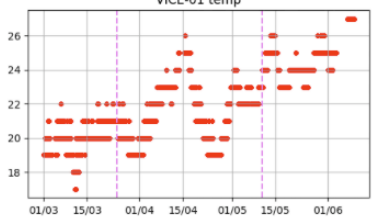
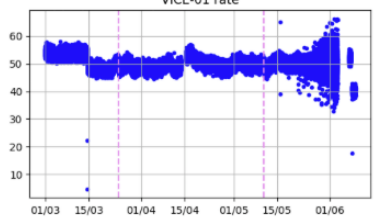
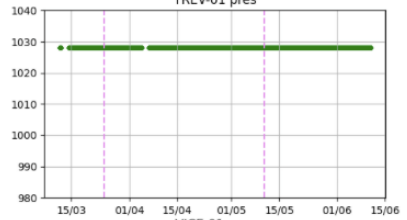
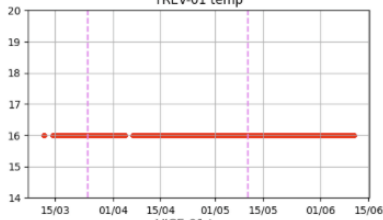
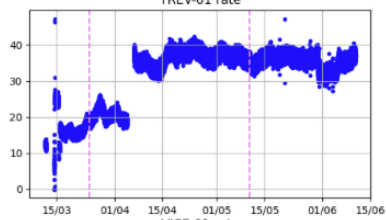
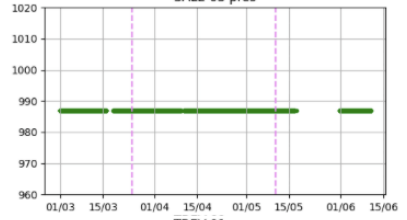
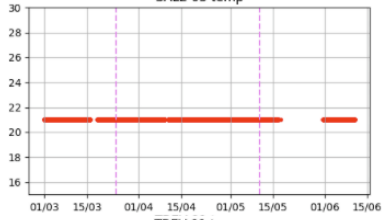
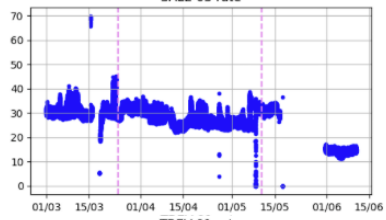
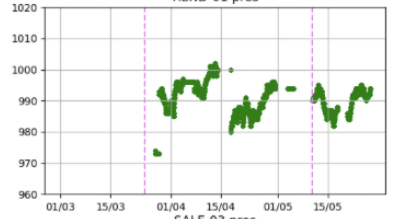
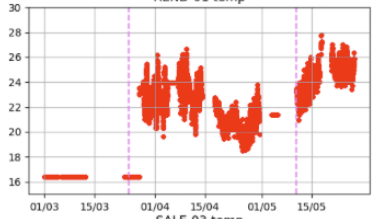
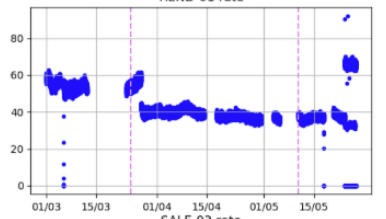
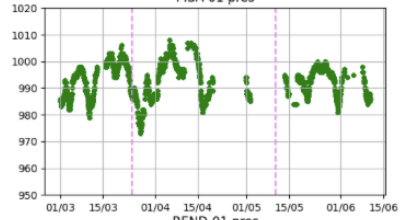
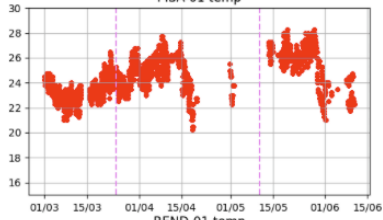
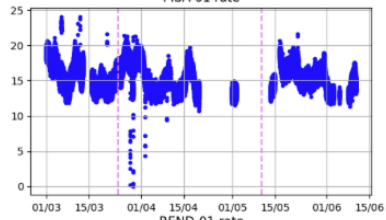
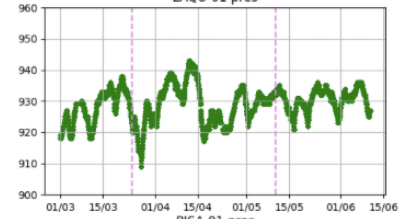
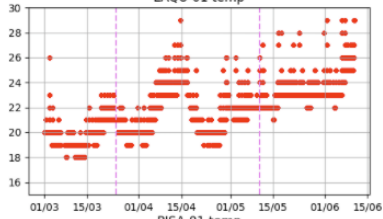
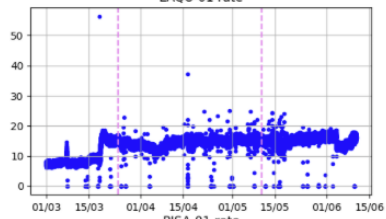
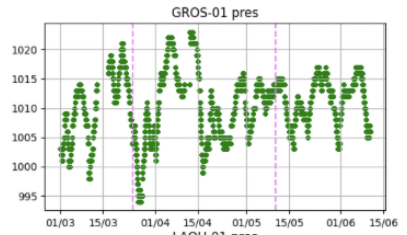
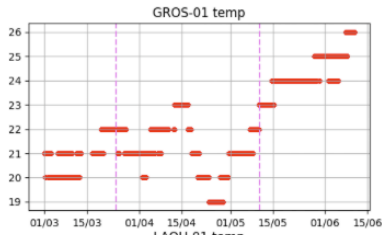
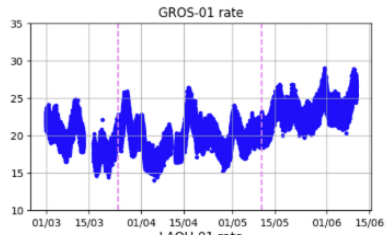


Quick look at EEE data on March/May 2024

Data from reconstruction available in `/home/eee/analisi/polarRates/`

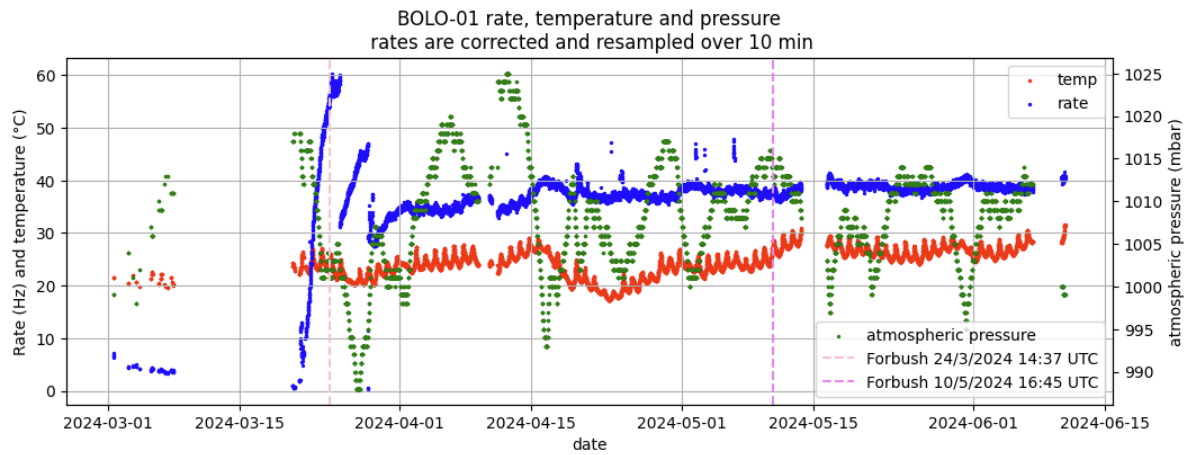




BOLO-01

datetime	rate	pres	temp
2024-03-01 14:13:30+00:00	0.083167	999.0	21.480000
2024-03-01 14:14:30+00:00	3.193606	999.0	21.479986
2024-03-01 14:15:30+00:00	7.135714	999.0	21.480036
2024-03-01 14:16:30+00:00	8.100450	999.0	21.480087
2024-03-01 14:17:30+00:00	7.584815	999.0	21.480062
...
2024-06-10 19:00:30+00:00	39.803648	999.0	31.409645
2024-06-10 19:01:30+00:00	40.385815	999.0	31.409595
2024-06-10 19:02:30+00:00	42.548154	999.0	31.409426
2024-06-10 19:03:30+00:00	40.552150	999.0	31.409582
2024-06-10 19:04:30+00:00	40.352548	999.0	31.409599

100641 entries, 2024-03-01 14:13:30+00:00 to 2024-06-10 19:04:30+00:00



Notes:

- Rate is oscillating like temperature (?)
- atmospheric pressure resolution 1 mbar

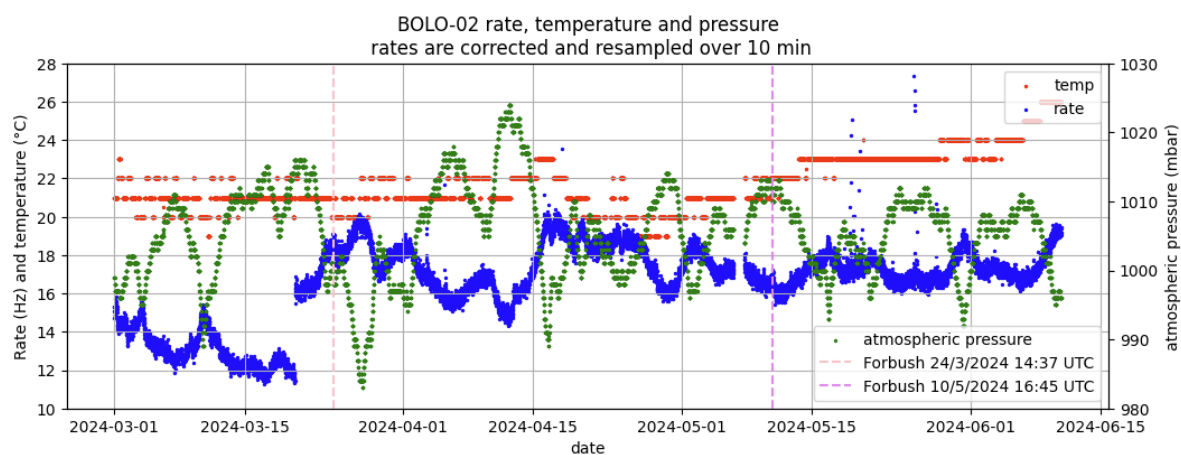
Forbush 24/3/2024: NO

Forbush 10/5/2024: OK

BOLO-02

datetime	rate	pres	temp
2024-03-01 00:25:30+00:00	14.504296	999.0	21.0
2024-03-01 00:26:30+00:00	14.836963	999.0	21.0
2024-03-01 00:27:30+00:00	14.421129	999.0	21.0
2024-03-01 00:28:30+00:00	14.737163	999.0	21.0
2024-03-01 00:29:30+00:00	14.970030	999.0	21.0
...
2024-06-10 18:30:30+00:00	18.468328	996.0	26.0
2024-06-10 18:31:30+00:00	19.757968	996.0	26.0
2024-06-10 18:32:30+00:00	19.047014	996.0	26.0
2024-06-10 18:33:30+00:00	19.344622	996.0	26.0
2024-06-10 18:34:30+00:00	19.162751	996.0	26.0

140722 entries, 2024-03-01 00:25:30+00:00 to 2024-06-10 18:34:30+00:00



Notes:

- spikes in rate and pressure
- temperature and pressure values have 1 degree/mbar resolution

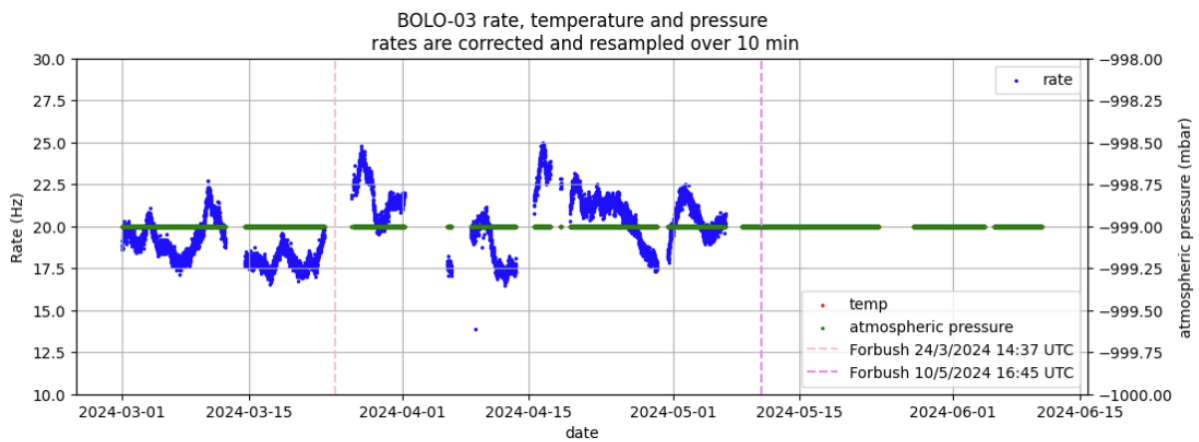
Forbush 24/3/2024: OK

Forbush 10/5/2024: OK

BOLO-03

```
datetime          rate  pres  temp
2024-03-01 00:01:30+00:00 18.733334 -999.0 -999.0
2024-03-01 00:02:30+00:00 18.083334 -999.0 -999.0
2024-03-01 00:03:30+00:00 18.750000 -999.0 -999.0
2024-03-01 00:04:30+00:00 18.433332 -999.0 -999.0
2024-03-01 00:05:30+00:00 18.633333 -999.0 -999.0
...
2024-06-10 18:48:30+00:00 45.066666 -999.0 -999.0
2024-06-10 18:49:30+00:00 45.400002 -999.0 -999.0
2024-06-10 18:50:30+00:00 44.299999 -999.0 -999.0
2024-06-10 18:51:30+00:00 42.466667 -999.0 -999.0
2024-06-10 18:52:30+00:00 43.983334 -999.0 -999.0
```

105396 entries, 2024-03-01 00:01:30+00:00 to 2024-06-10 18:52:30+00:00



Notes:

- Atmospheric pressure and temperature non available (default value -999)
- Rates could not be corrected for pressure variations
- Rates not available during Forbush

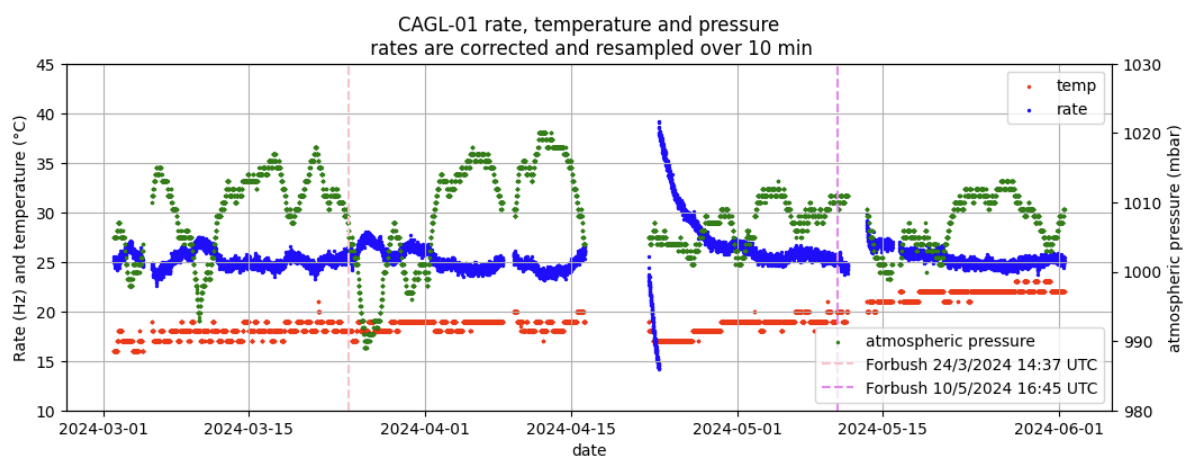
Forbush 24/3/2024: NO

Forbush 10/5/2024: NO

CAGL-01

```
datetime          rate    pres  temp
2024-03-02 00:01:30+00:00  24.678892  1005.0  16.0
2024-03-02 00:02:30+00:00  24.527384  1005.0  16.0
2024-03-02 00:03:30+00:00  25.402761  1005.0  16.0
2024-03-02 00:04:30+00:00  25.688942  1005.0  16.0
2024-03-02 00:05:30+00:00  25.049243  1005.0  16.0
...
2024-06-01 11:51:30+00:00  25.114686  1009.0  22.0
2024-06-01 11:52:30+00:00  25.216503  1009.0  22.0
2024-06-01 11:53:30+00:00  25.657708  1009.0  22.0
2024-06-01 11:54:30+00:00  24.520759  1009.0  22.0
2024-06-01 11:55:30+00:00  24.860145  1009.0  22.0
```

111979 entries, 2024-03-02 00:01:30+00:00 to 2024-06-01 11:55:30+00:00



Notes:

- Corrected rates still has pressure dependence (?)
- Temperature and atmospheric pressure sensors have 1 degree/mbar resolution

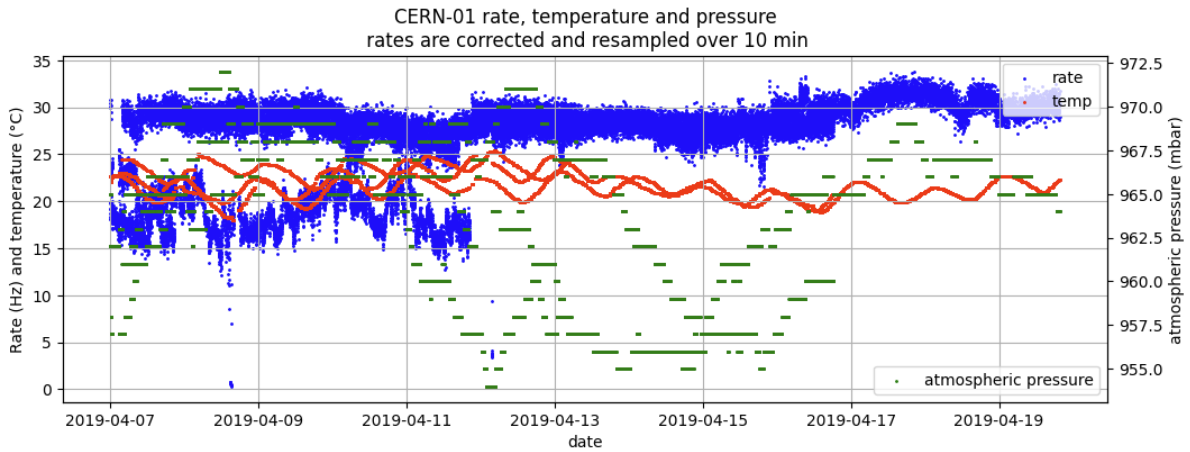
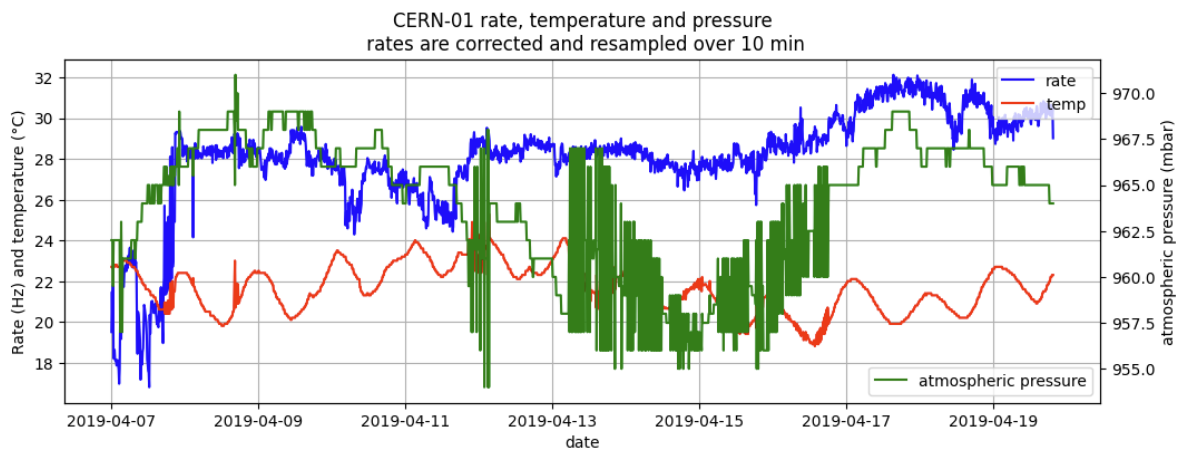
Forbush 24/3/2024: OK

Forbush 10/5/2024: OK

CERN-01

datetime	rate	pres	temp
2019-04-07 00:06:30+00:00	30.442660	965.0	22.699558
2019-04-07 00:07:30+00:00	29.898761	965.0	22.699564
2019-04-07 00:08:30+00:00	30.815615	965.0	22.699554
2019-04-07 00:09:30+00:00	30.023082	965.0	22.699562
2019-04-07 00:10:30+00:00	29.432566	965.0	22.699570
...
2019-04-13 05:18:30+00:00	28.012006	958.0	24.399788
2019-04-13 05:19:30+00:00	28.257188	958.0	24.399776
2019-04-13 05:20:30+00:00	28.073301	958.0	24.399786
2019-04-13 05:21:30+00:00	27.644234	958.0	24.399805
2019-04-13 05:22:30+00:00	27.797472	958.0	24.399799

39063 entries, 2019-04-07 00:06:30+00:00 to 2019-04-13 05:22:30+00:00



NOTE:

- Values available only for two weeks during April 2019
- Atmospheric pressure values have 1 mbar resolution

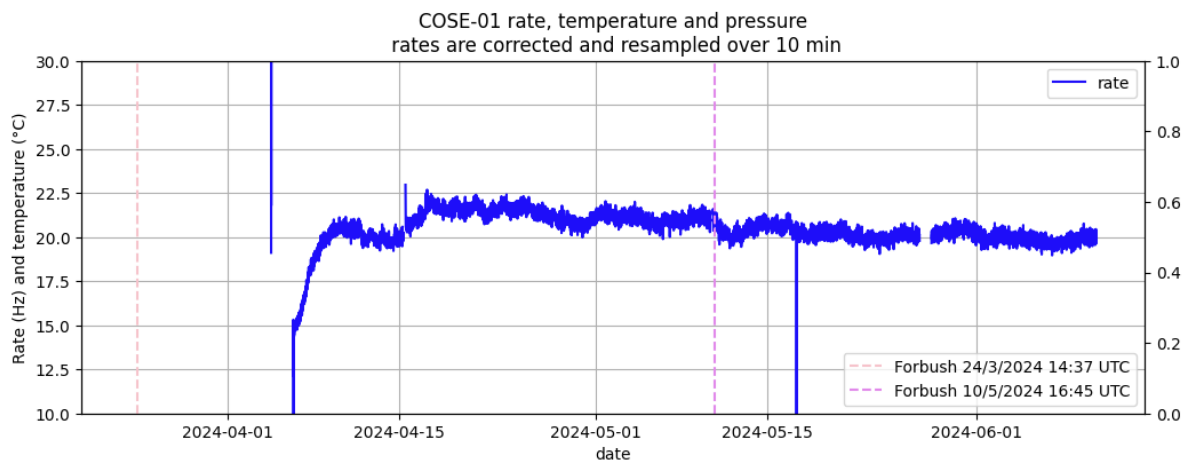
Forbush 24/3/2024: NO

Forbush 10/5/2024: NO

COSE-01

```
datetime          rate  pres  temp
2024-03-24 00:28:30+00:00  0.000000  0.0  0.0
2024-03-24 00:29:30+00:00  0.000000  0.0  0.0
2024-03-24 00:30:30+00:00  0.000000  0.0  0.0
2024-03-24 00:31:30+00:00  0.000000  0.0  0.0
2024-03-24 00:32:30+00:00  0.000000  0.0  0.0
...
2024-06-10 18:29:30+00:00  20.133333 -999.0 -999.0
2024-06-10 18:30:30+00:00  19.299999 -999.0 -999.0
2024-06-10 18:31:30+00:00  20.983334 -999.0 -999.0
2024-06-10 18:32:30+00:00  19.700001 -999.0 -999.0
2024-06-10 18:33:30+00:00  20.233334 -999.0 -999.0
```

88632 entries, 2024-03-24 00:28:30+00:00 to 2024-06-10 18:33:30+00:00



Note:

- Temperature and atmospheric pressure not available (default values=-999), or 0
- Rates could not be corrected
- Spike in rates on 17 May and April

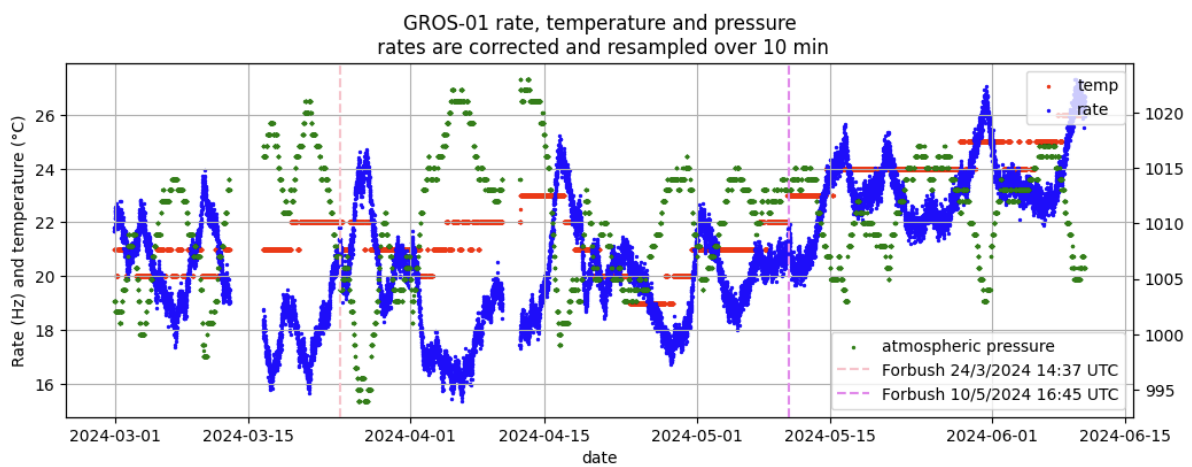
Forbush 24/3/2024: NO

Forbush 10/5/2024: OK

GROS-01

```
datetime          rate    pres  temp
2024-02-29 23:01:30+00:00 23.155182 1003.0 21.0
2024-02-29 23:02:30+00:00 21.679688 1003.0 21.0
2024-02-29 23:03:30+00:00 21.780290 1003.0 21.0
2024-02-29 23:04:30+00:00 21.579088 1003.0 21.0
2024-02-29 23:05:30+00:00 22.015028 1003.0 21.0
...
2024-06-10 16:46:30+00:00 26.398220 1006.0 26.0
2024-06-10 16:47:30+00:00 26.448822 1006.0 26.0
2024-06-10 16:48:30+00:00 25.470485 1006.0 26.0
2024-06-10 16:49:30+00:00 26.819916 1006.0 26.0
2024-06-10 16:50:30+00:00 26.516295 1006.0 26.0
```

134685 entries, 2024-02-29 23:01:30+00:00 to 2024-06-10 16:50:30+00:00



Notes:

- (Corrected) rate still has pressure dependence (??)
- Temperature and atmospheric pressure values low resolution

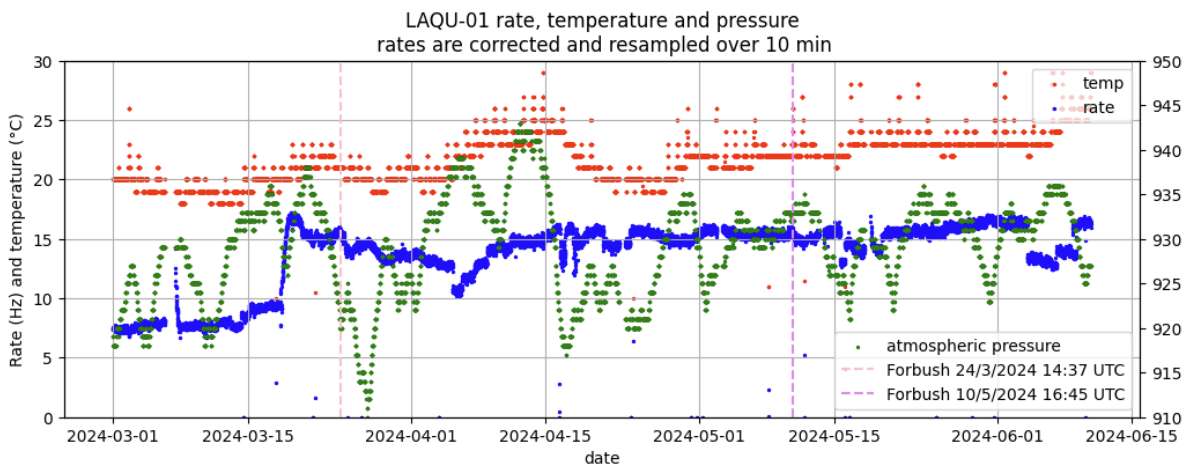
Forbush 24/3/2024: OK

Forbush 10/5/2024: OK

LAQU-01

```
datetime          rate  pres  temp
2024-04-30 22:13:30+00:00 15.053229 929.0 22.0
2024-04-30 22:14:30+00:00 15.660563 929.0 22.0
2024-04-30 22:15:30+00:00 15.429198 929.0 22.0
2024-04-30 22:16:30+00:00 15.082149 929.0 22.0
2024-04-30 22:17:30+00:00 15.732865 929.0 22.0
...
2024-06-10 16:51:30+00:00 16.404594 927.0 29.0
2024-06-10 16:52:30+00:00 15.828489 927.0 29.0
2024-06-10 16:53:30+00:00 16.274971 927.0 29.0
2024-06-10 16:54:30+00:00 15.842892 927.0 29.0
2024-06-10 16:55:30+00:00 16.145346 927.0 29.0
```

52344 entries, 2024-04-30 22:13:30+00:00 to 2024-06-10 16:55:30+00:00



Notes:

- Spikes in pressure and temperature
- Sensors resolution 1 degree/mbar

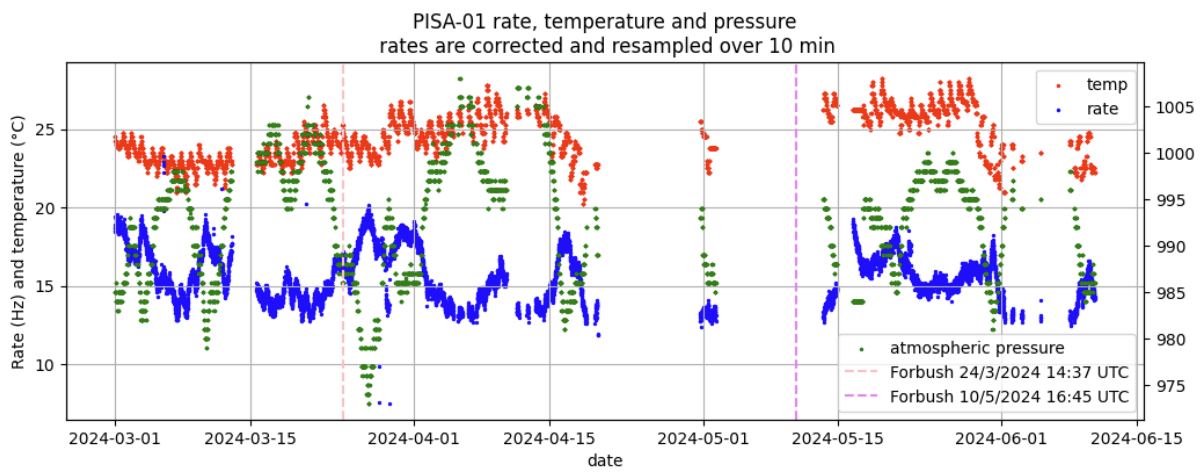
Forbush 24/3/2024: OK

Forbush 10/5/2024: OK

PISA-01

```
datetime          rate  pres  temp
2024-02-29 23:24:30+00:00 18.519336 985.0 24.50
2024-02-29 23:25:30+00:00 18.260551 985.0 24.50
2024-02-29 23:26:30+00:00 19.214821 985.0 24.50
2024-02-29 23:27:30+00:00 18.600205 985.0 24.50
2024-02-29 23:28:30+00:00 19.004559 985.0 24.50
...
2024-06-10 16:03:30+00:00 13.710676 986.0 22.25
2024-06-10 16:04:30+00:00 14.083425 986.0 22.25
2024-06-10 16:05:30+00:00 15.055813 986.0 22.25
2024-06-10 16:06:30+00:00 13.840328 986.0 22.25
2024-06-10 16:07:30+00:00 13.564818 986.0 22.25
```

88966 entries, 2024-02-29 23:24:30+00:00 to 2024-06-10 16:07:30+00:00



Notes:

- Pressure and temperature sensors low resolution
- Corrected rate still shows pressure dependence (?)
- Gaps in rate values

Forbush 24/3/2024: OK

Forbush 10/5/2024: NO

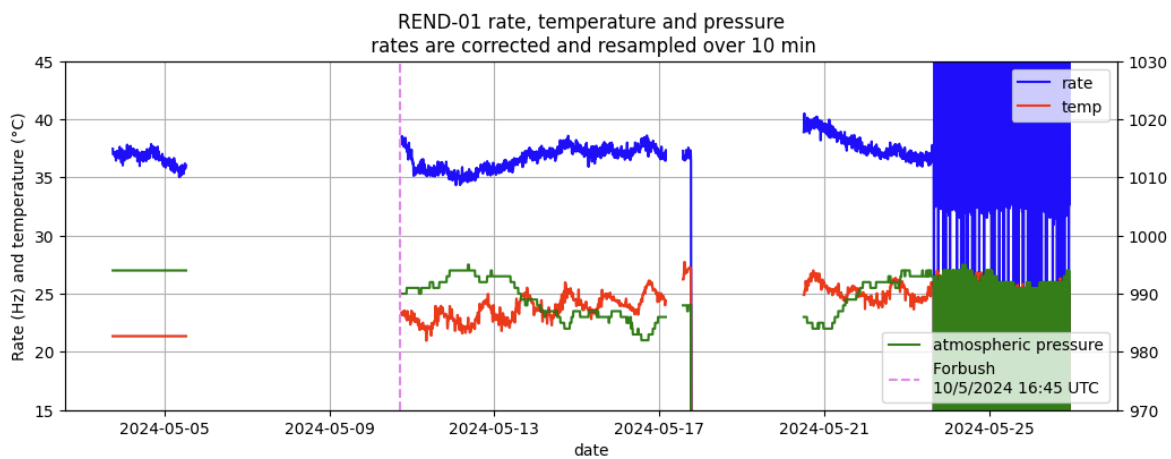
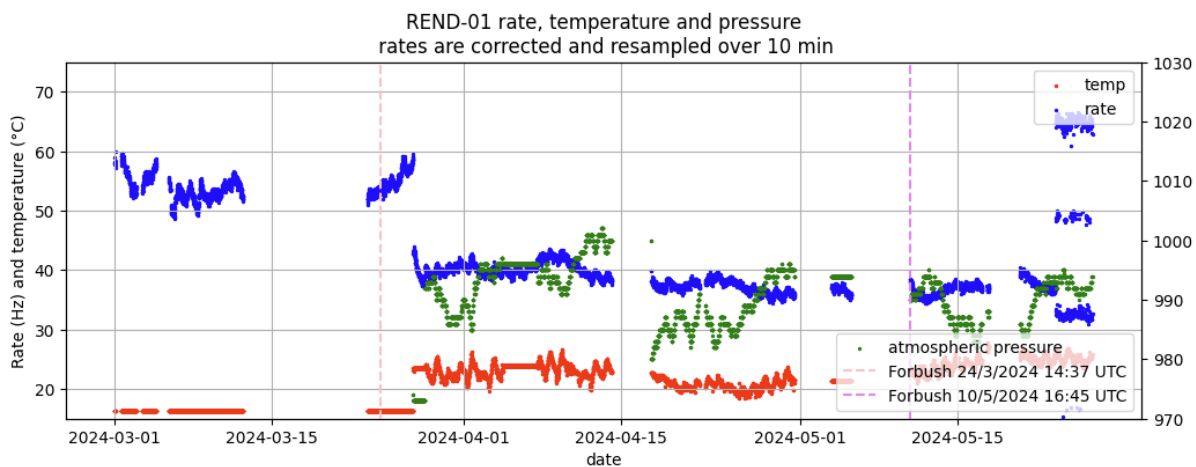
REND-01

```

datetime          rate  pres  temp
2024-03-01 00:01:30+00:00  58.213232  1136.0  16.380013
2024-03-01 00:02:30+00:00  59.022663  1136.0  16.379997
2024-03-01 00:03:30+00:00  59.307057  1136.0  16.379993
2024-03-01 00:04:30+00:00  56.484993  1136.0  16.380047
2024-03-01 00:05:30+00:00  57.206915  1136.0  16.380033
...
2024-05-26 22:51:30+00:00  65.360945  994.0  25.890501
2024-05-26 22:52:30+00:00  67.172405  994.0  25.890505
2024-05-26 22:53:30+00:00  0.000000  0.0  0.000000
2024-05-26 22:54:30+00:00  65.723240  994.0  25.890501
2024-05-26 22:55:30+00:00  0.000000  0.0  0.000000

```

78491 entries, 2024-03-01 00:01:30+00:00 to 2024-05-26 22:55:30+00:00



Notes :

- Many different periods
- Pressure sensor has low resolution
- Something happened May 23?

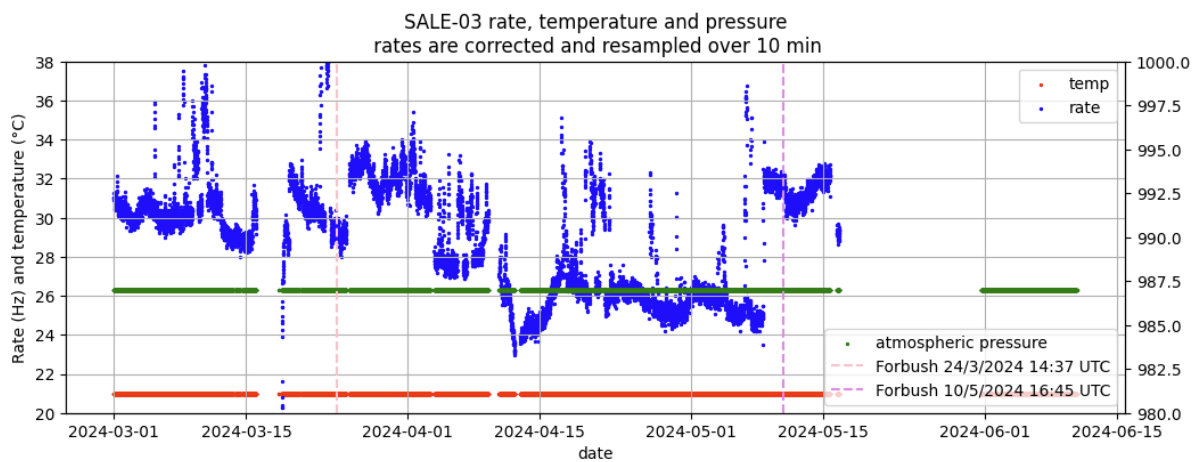
Forbush 24/3/2024: NO

Forbush 10/5/2024: OK

SALE-03

```
datetime          rate  pres  temp
2024-03-01 00:01:30+00:00 30.918900 987.0 21.0
2024-03-01 00:02:30+00:00 32.006906 987.0 21.0
2024-03-01 00:03:30+00:00 29.977043 987.0 21.0
2024-03-01 00:04:30+00:00 28.986469 987.0 21.0
2024-03-01 00:05:30+00:00 30.009520 987.0 21.0
...
2024-06-10 18:13:30+00:00 14.744938 987.0 21.0
2024-06-10 18:14:30+00:00 14.062903 987.0 21.0
2024-06-10 18:15:30+00:00 14.679982 987.0 21.0
2024-06-10 18:16:30+00:00 15.004760 987.0 21.0
2024-06-10 18:17:30+00:00 14.014186 987.0 21.0
```

111347 entries, 2024-03-01 00:01:30+00:00 to 2024-06-10 18:17:30+00:00



Notes:

- Sensors have fixed values
- Big jump on May 9

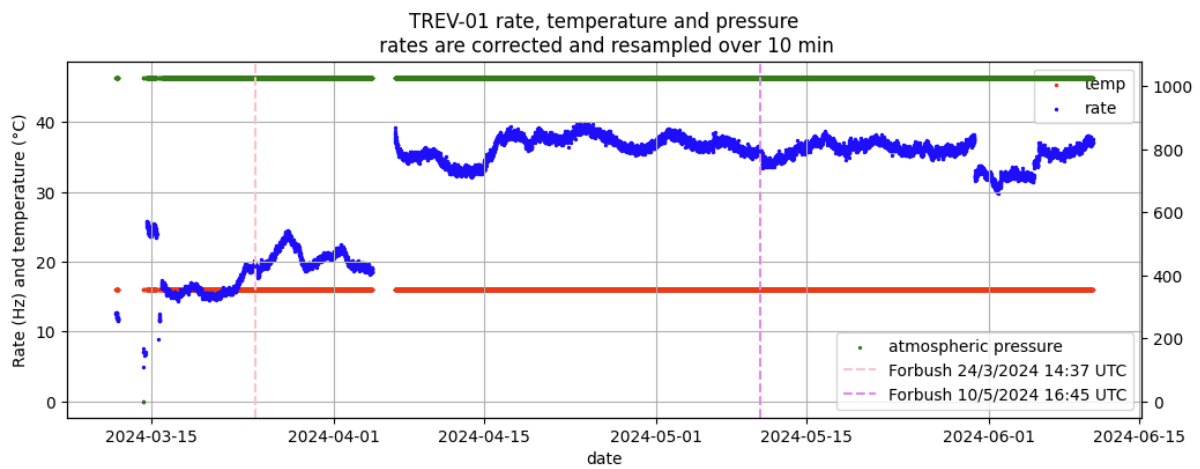
Forbush 24/3/2024: OK

Forbush 10/5/2024: OK

TREV-01

```
datetime          rate  pres  temp
2024-03-11 15:30:30+00:00 13.449117 1028.0 16.0
2024-03-11 15:31:30+00:00 12.021360 1028.0 16.0
2024-03-11 16:19:30+00:00 12.603039 1028.0 16.0
2024-03-11 16:20:30+00:00 12.144747 1028.0 16.0
2024-03-11 16:21:30+00:00 12.162373 1028.0 16.0
...
2024-06-10 16:52:30+00:00 37.156934 1028.0 16.0
2024-06-10 16:53:30+00:00 36.487120 1028.0 16.0
2024-06-10 16:54:30+00:00 37.333197 1028.0 16.0
2024-06-10 16:55:30+00:00 36.681014 1028.0 16.0
2024-06-10 16:56:30+00:00 37.139303 1028.0 16.0
```

118225 entries, 2024-03-11 15:30:30+00:00 to 2024-06-10 16:56:30+00:00



Notes:

- Temperature and atmospheric pressure values constant
- Rate could not be not corrected

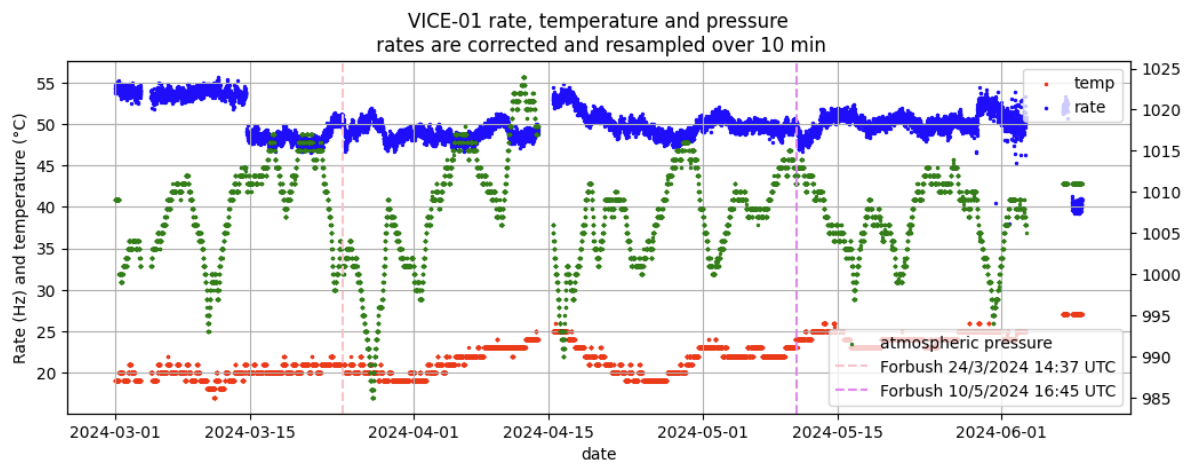
Forbush 24/3/2024: OK

Forbush 10/5/2024: OK

VICE-01

```
datetime          rate  pres  temp
2024-02-29 23:11:30+00:00  53.826881  1009.0  19.0
2024-02-29 23:12:30+00:00  53.555371  1009.0  19.0
2024-02-29 23:13:30+00:00  52.639027  1009.0  19.0
2024-02-29 23:14:30+00:00  53.809912  1009.0  19.0
2024-02-29 23:15:30+00:00  53.249923  1009.0  19.0
...
2024-06-09 09:15:30+00:00  39.628984  1011.0  27.0
2024-06-09 09:16:30+00:00  40.906789  1011.0  27.0
2024-06-09 09:17:30+00:00  40.583079  1011.0  27.0
2024-06-09 09:18:30+00:00  41.111238  1011.0  27.0
2024-06-09 09:19:30+00:00  38.470443  1011.0  27.0
```

122573 entries, 2024-02-29 23:11:30+00:00 to 2024-06-09 09:19:30+00:00



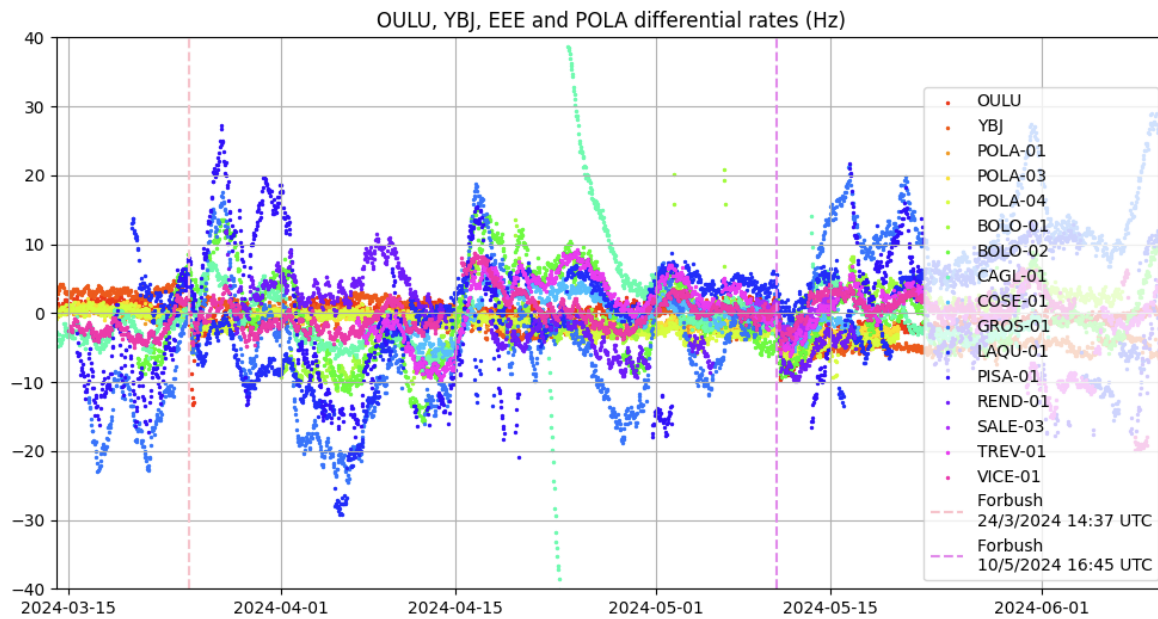
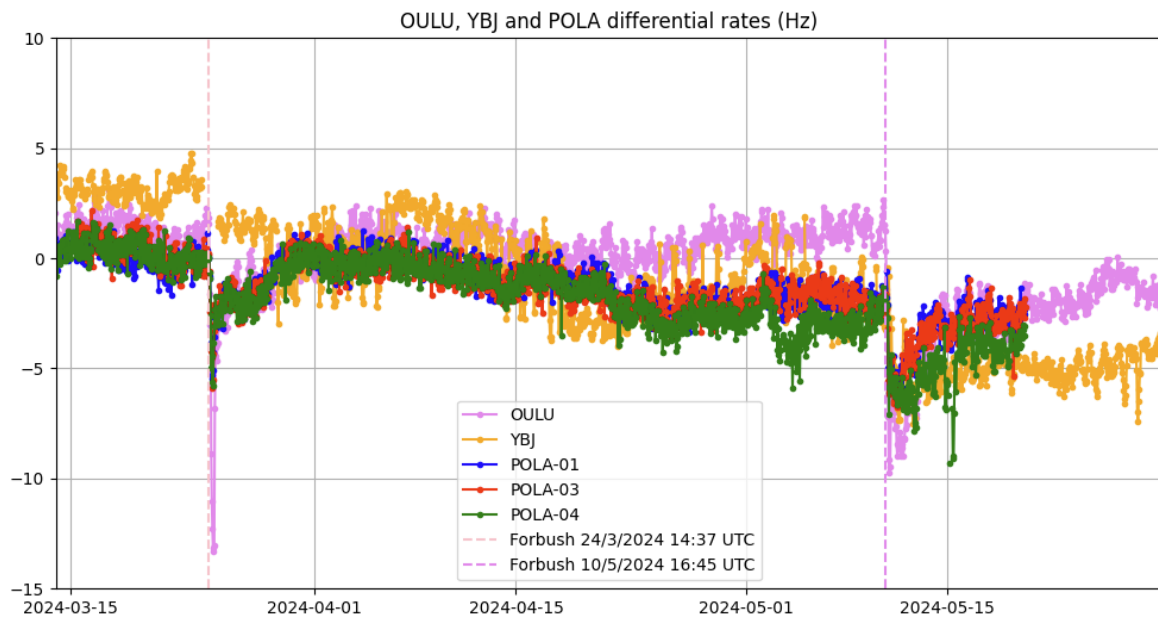
Notes:

- Sensors have low resolution
- Corrected rate still shows pressure dependence (?)

Forbush 24/3/2024: OK

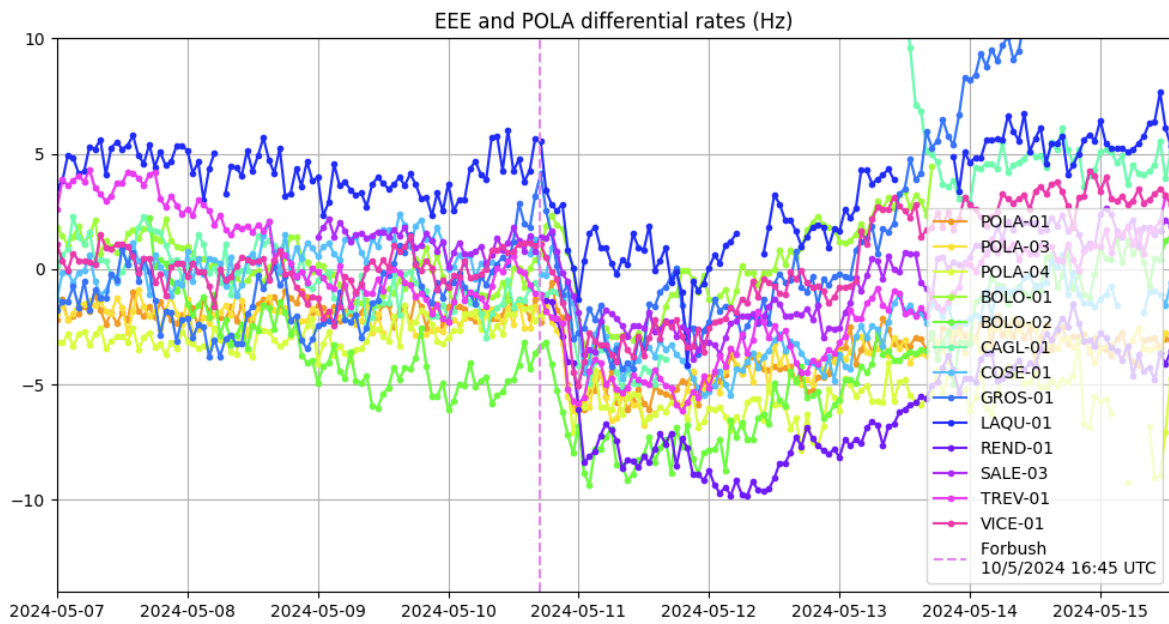
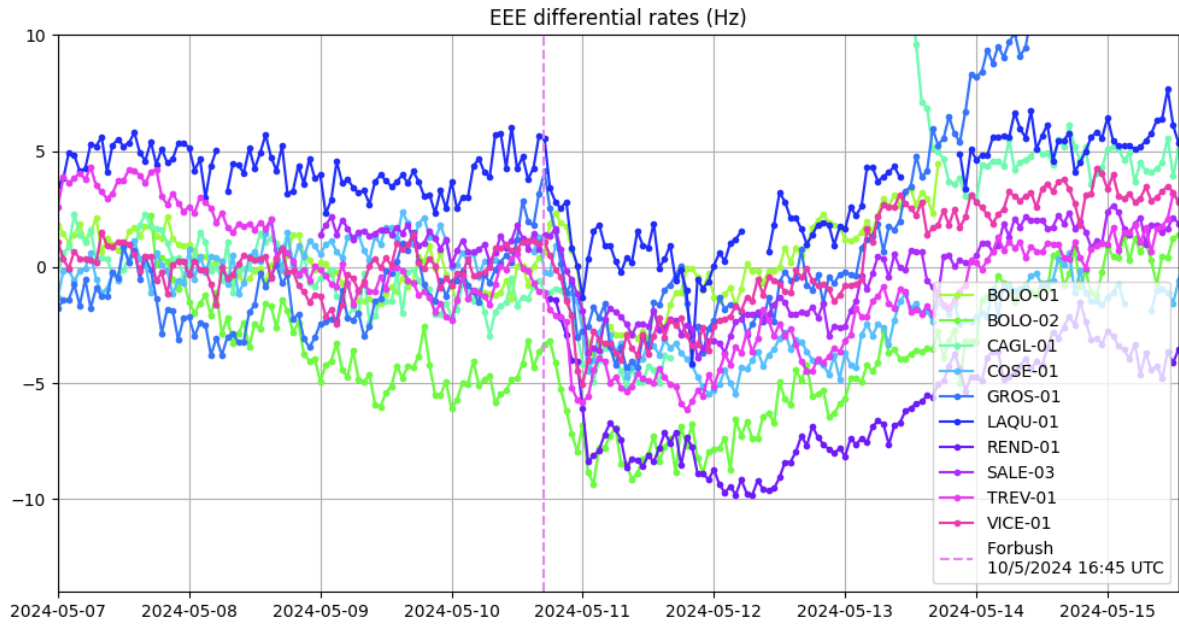
Forbush 10/5/2024: OK

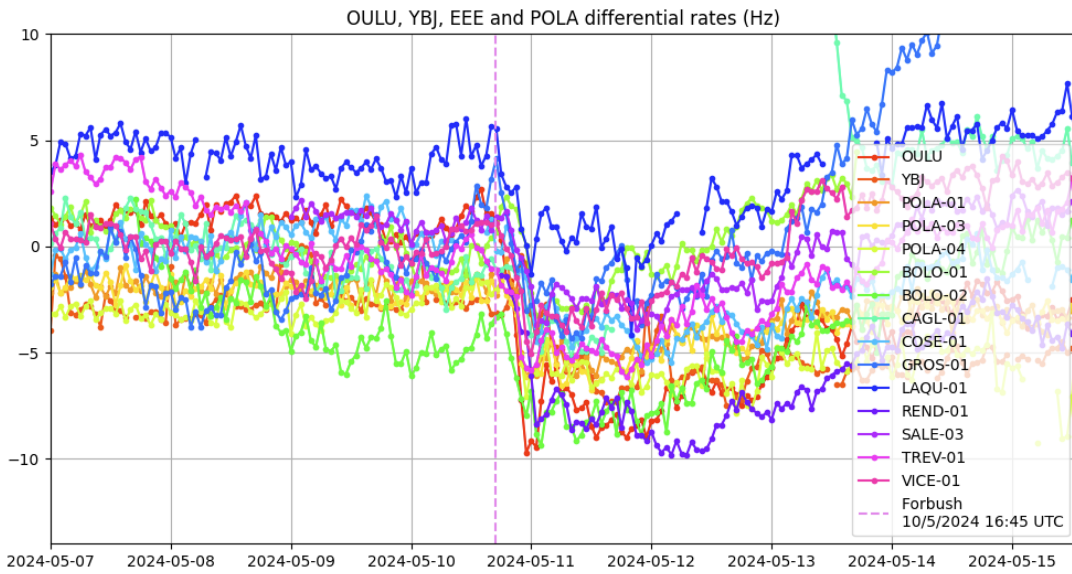
Forbush: 24/3/2024 and 10/5/2024



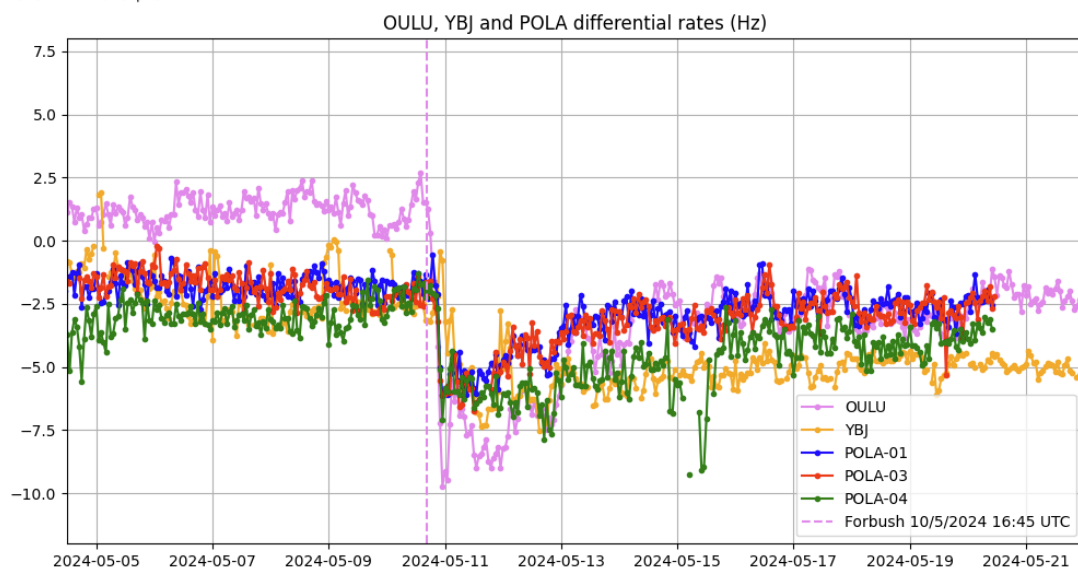
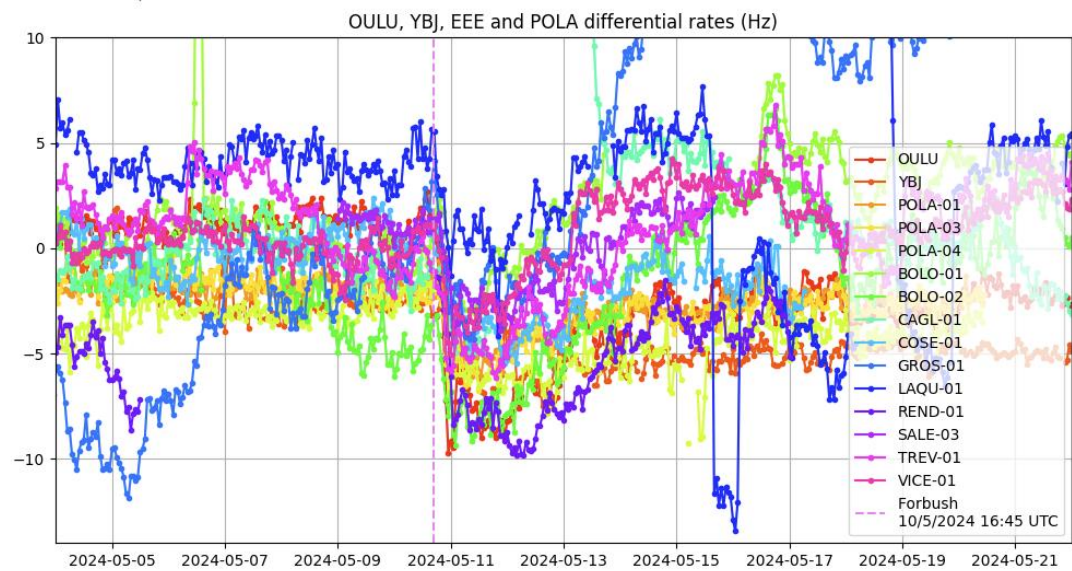
FORBUSH 10/5/2024

(Note: CERN and PISA excluded because we don't have data during the Forbush period)





(Wider zoom)



Forbush 10/3/2024 14:37 UTC

