# summary for network NET8

timeperiod chosen: from 2026-10-23-00:00:00 until 2026-10-23-23:59:58

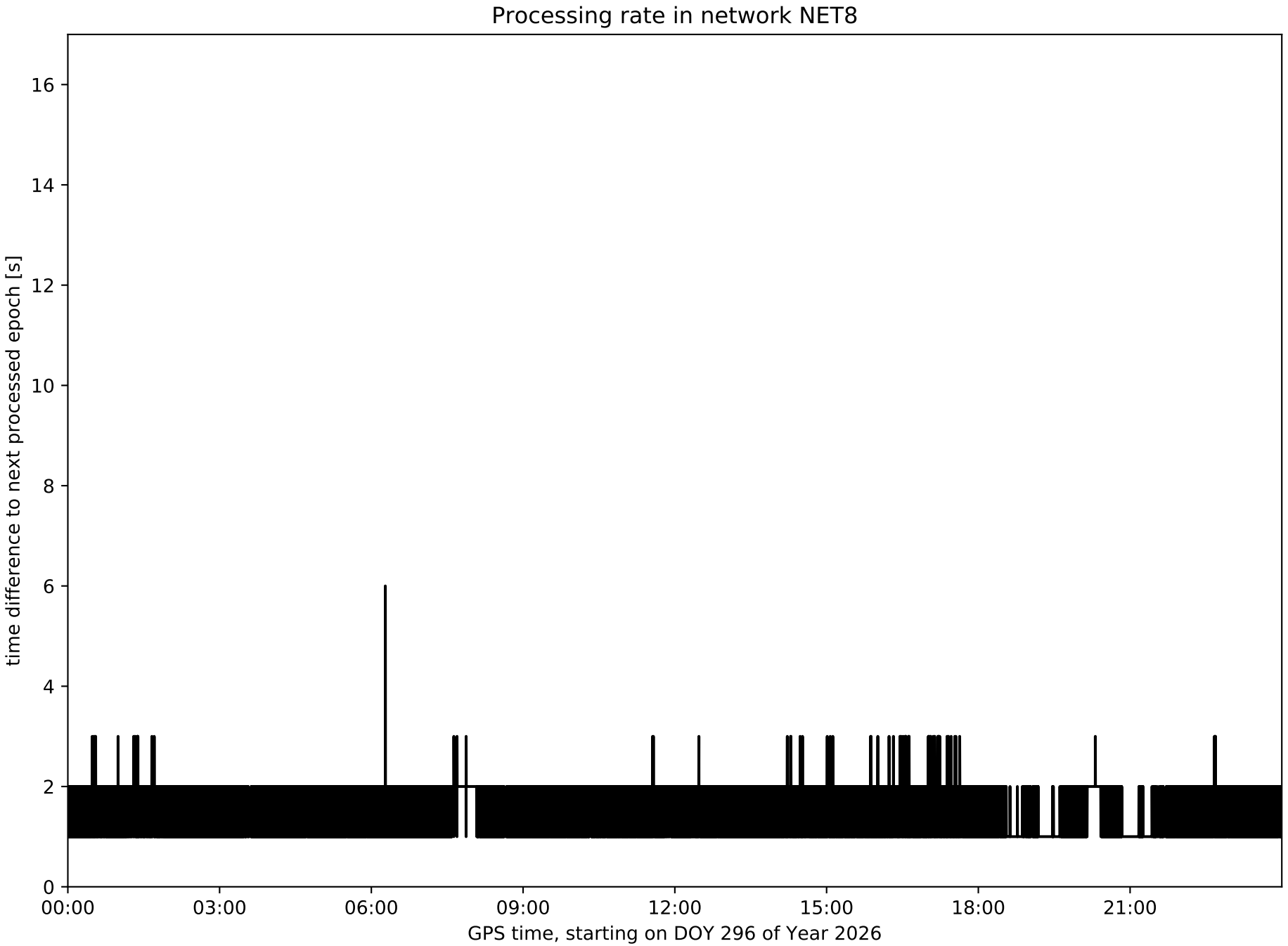
average update rate (durations larger than 15 seconds considered as observation gap): 1.2 seconds

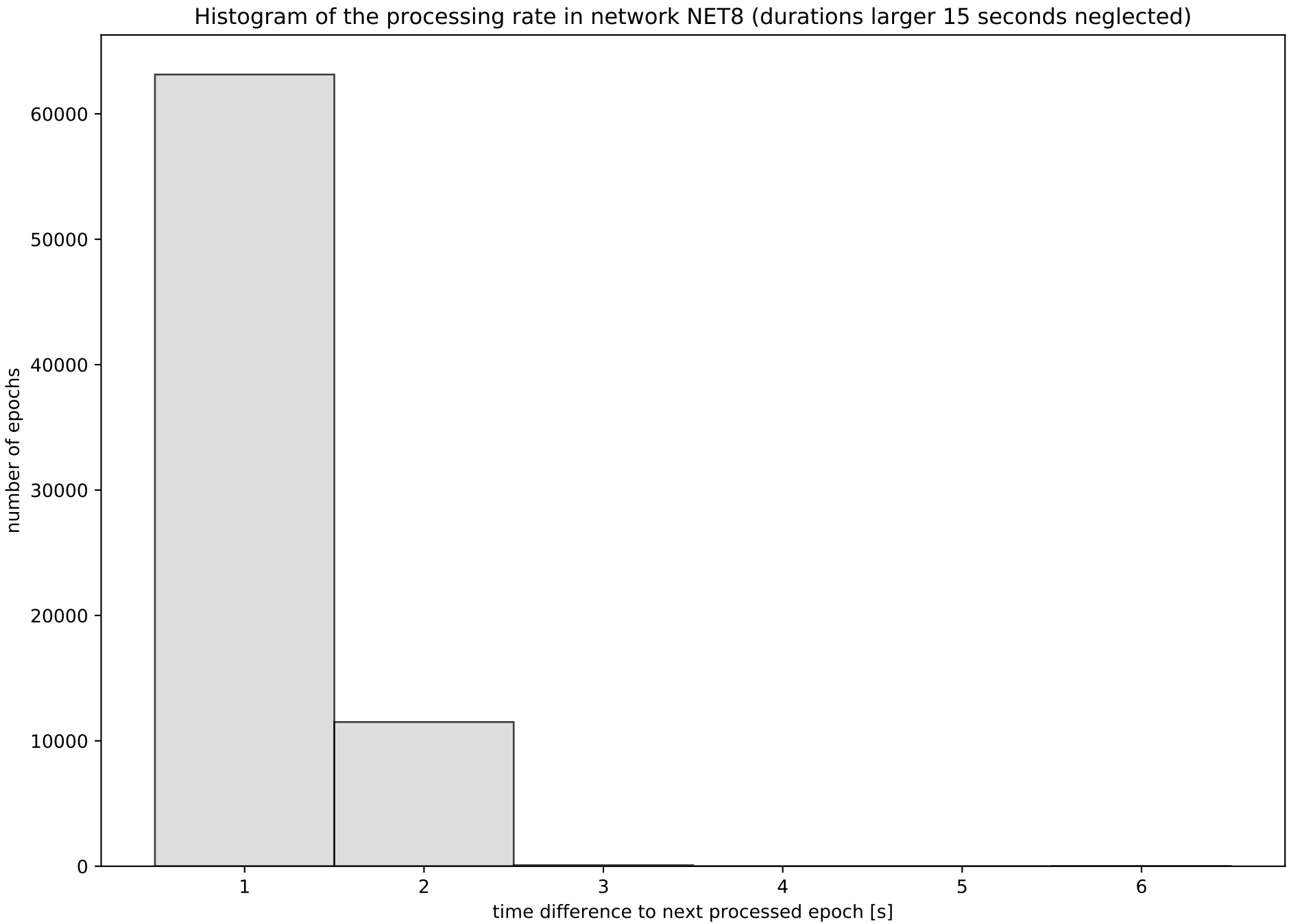
average fixing percentage with threshold set to 0.3: 93.9 percent

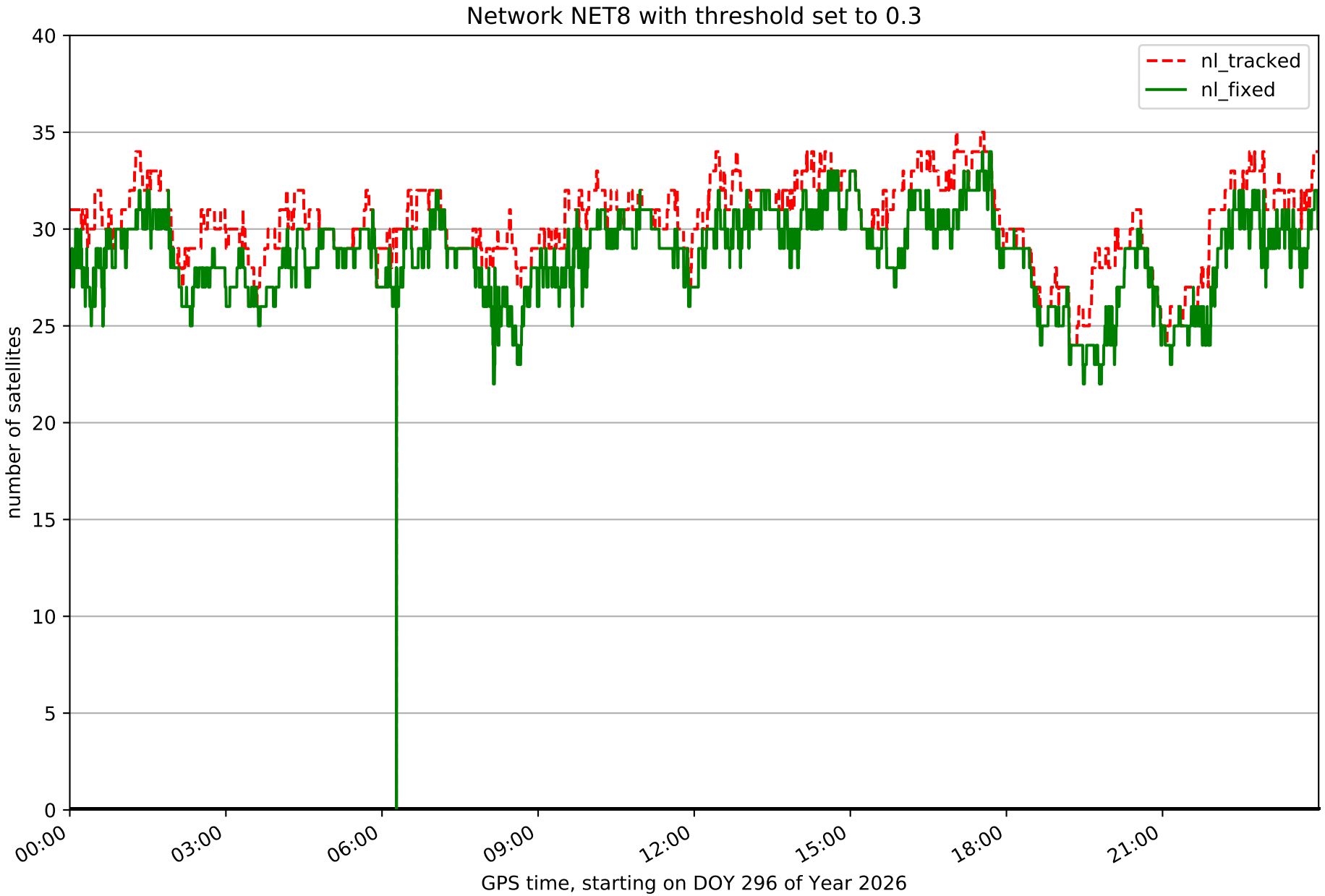
stations available: 15 of 16

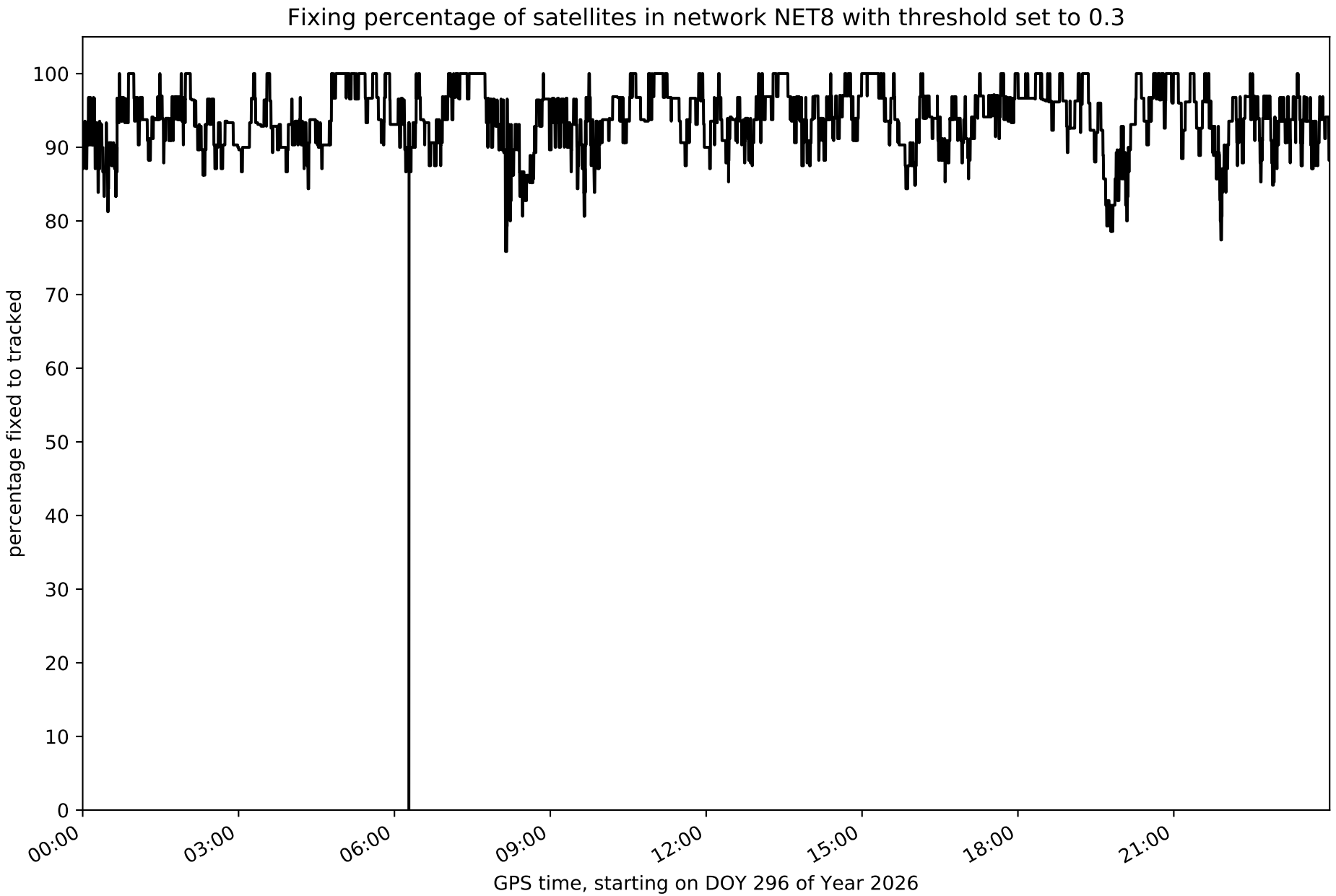
station information:

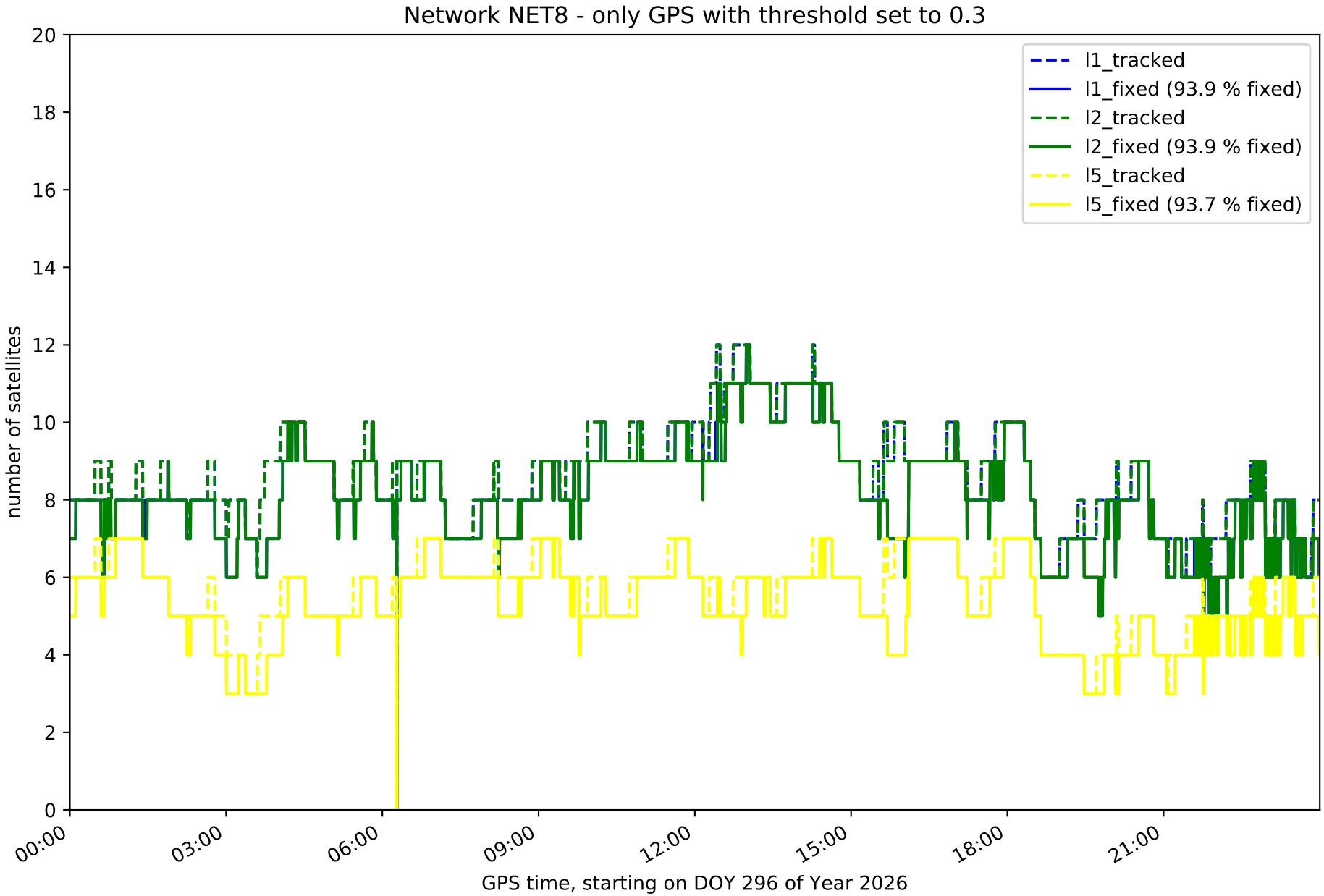
| | | | |
|---|---|---|---|
| station ALDA: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR30 | height: 881.795 |
| station ALSA: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 584.188 |
| station AMUR: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR30 | height: 299.242 |
| station ELGE: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR30 | height: 535.724 |
| station ESTE: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 523.475 |
| station HOND: | antenna: LEIAR20 LEIM | receiver: LEICA GR50 | height: 166.322 |
| station KAST: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR30 | height: 321.663 |
| station LEIT: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 530.061 |
| station MIBR: | antenna: LEIAR25 LEIT | receiver: TRIMBLE NETR9 | height: 526.687 |
| station ORON: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 204.83 |
| station PASA: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR30 | height: 67.364 |
| station SOPU: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR30 | height: 168.97 |
| station TAFA: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 473.843 |
| station UPNA: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 500.918 |
| station VITO: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR30 | height: 600.458 |

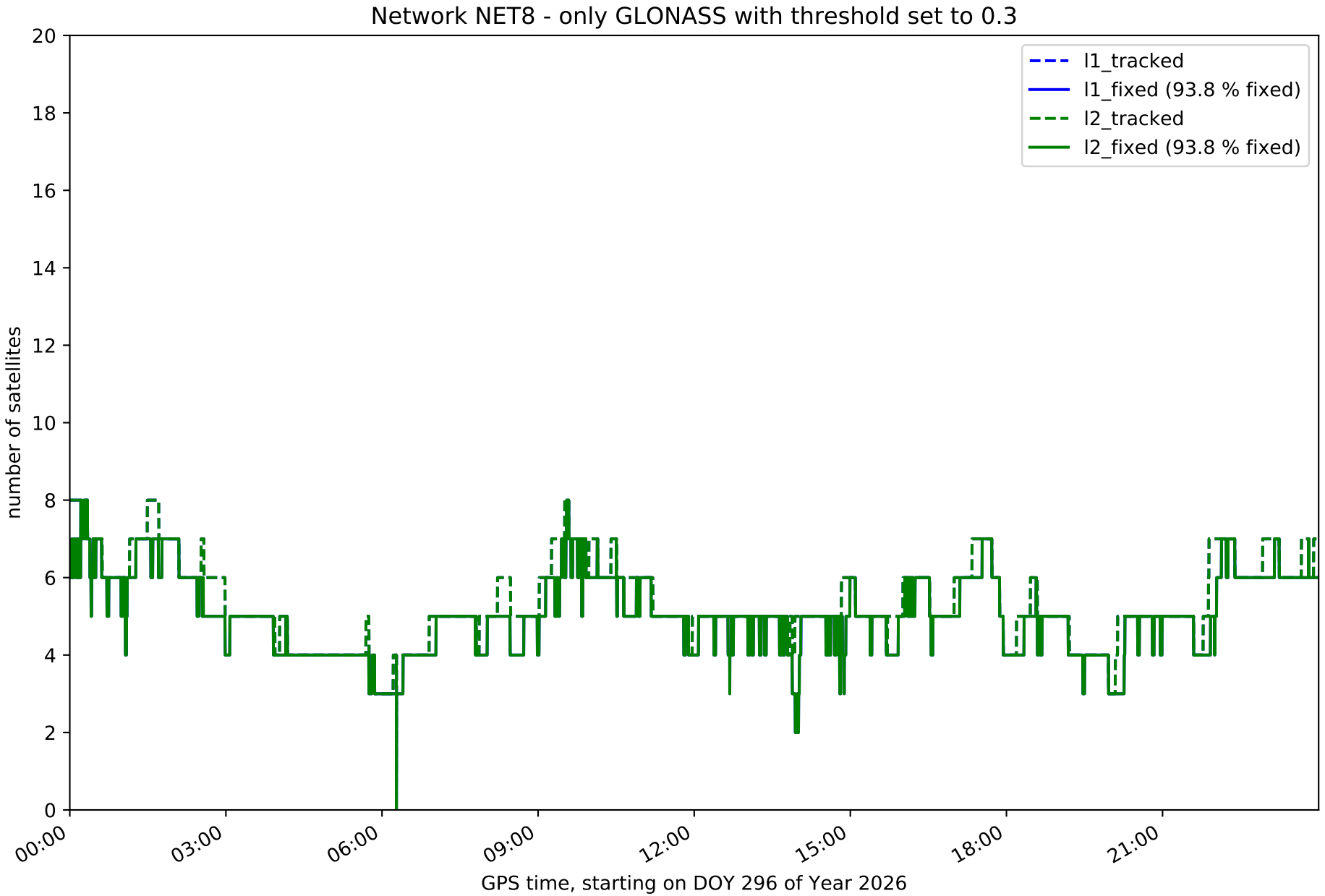

Processing rate in network NET8
time difference to next processed epoch [s]
0
2
4
6
8
10
12
14
16
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

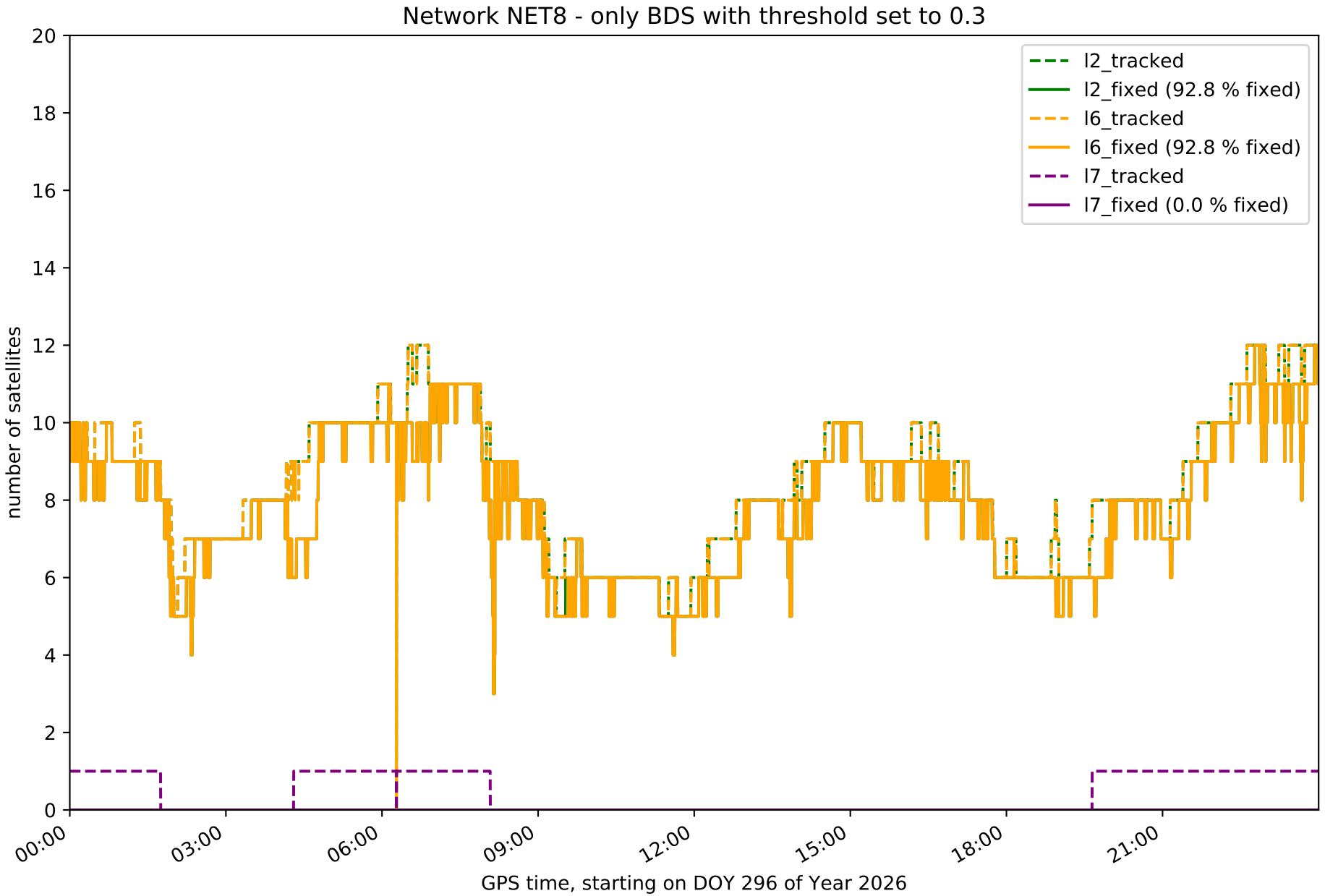

Histogram of the processing rate in network NET8 (durations larger 15 seconds neglected)
number of epochs
0
10000
20000
30000
40000
50000
60000
1
2
3
4
5
6
time difference to next processed epoch [s]

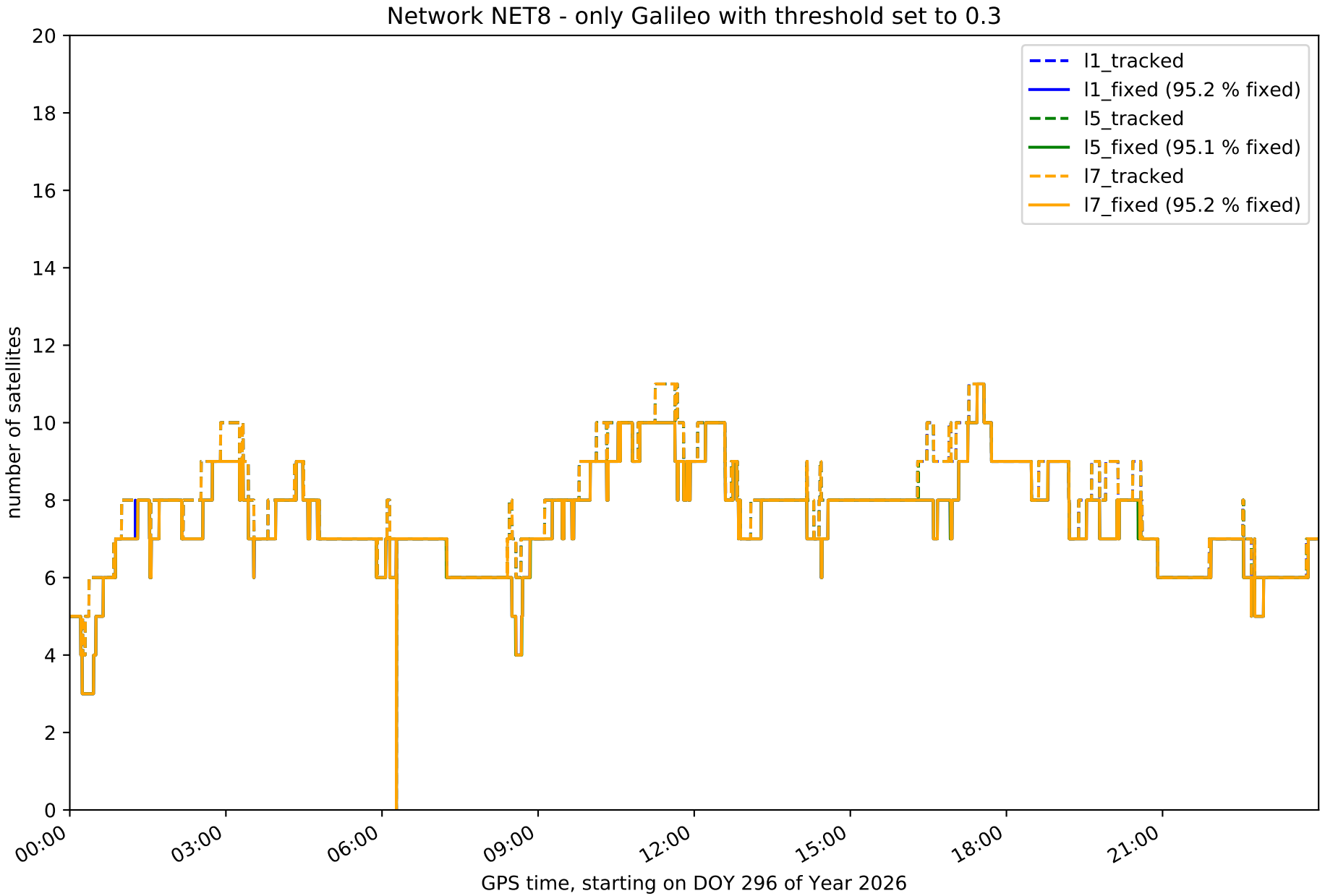

Network NET8 with threshold set to 0.3
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
40
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

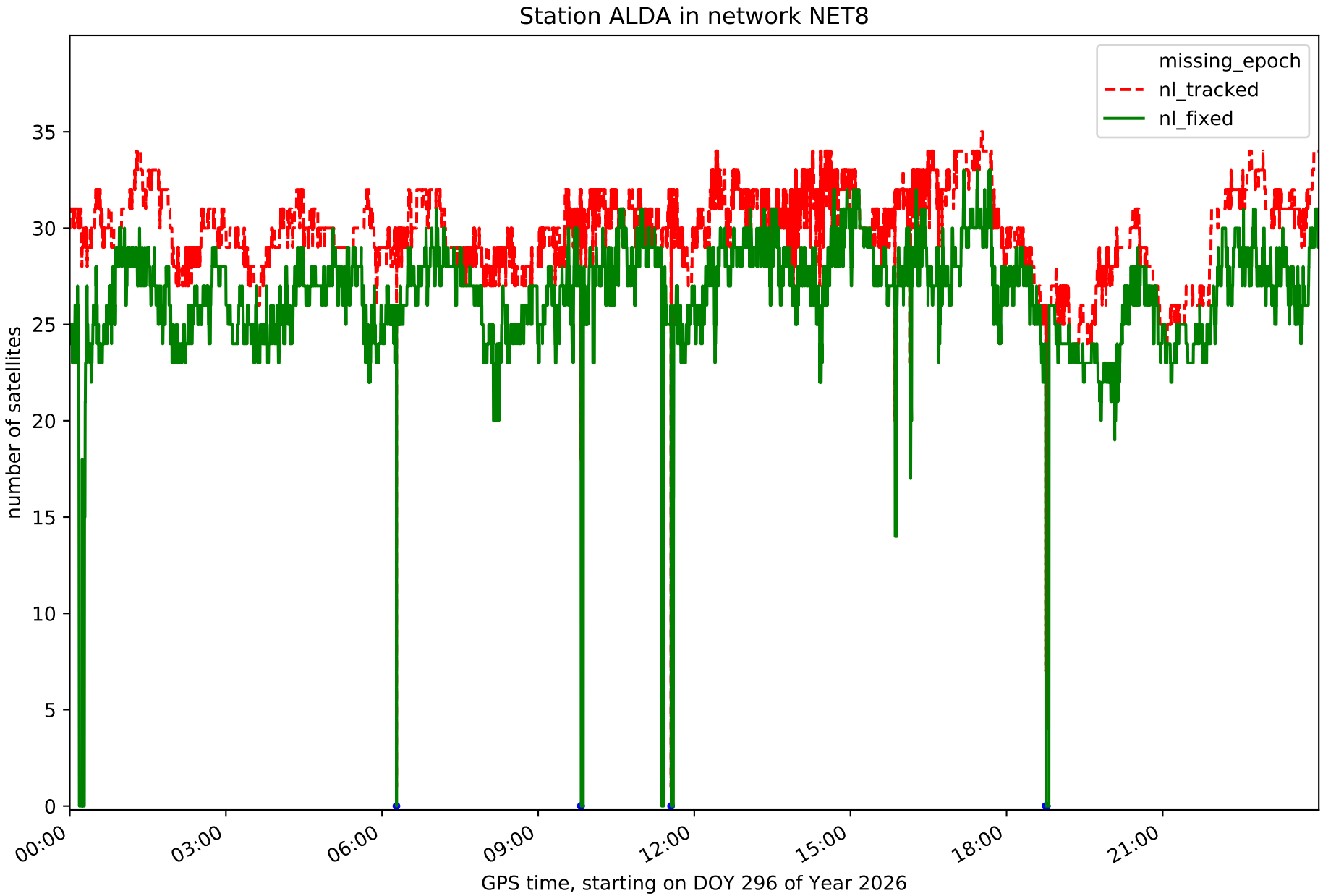

Fixing percentage of satellites in network NET8 with threshold set to 0.3
percentage fixed to tracked
100
90
80
70
60
50
40
30
20
10
0
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

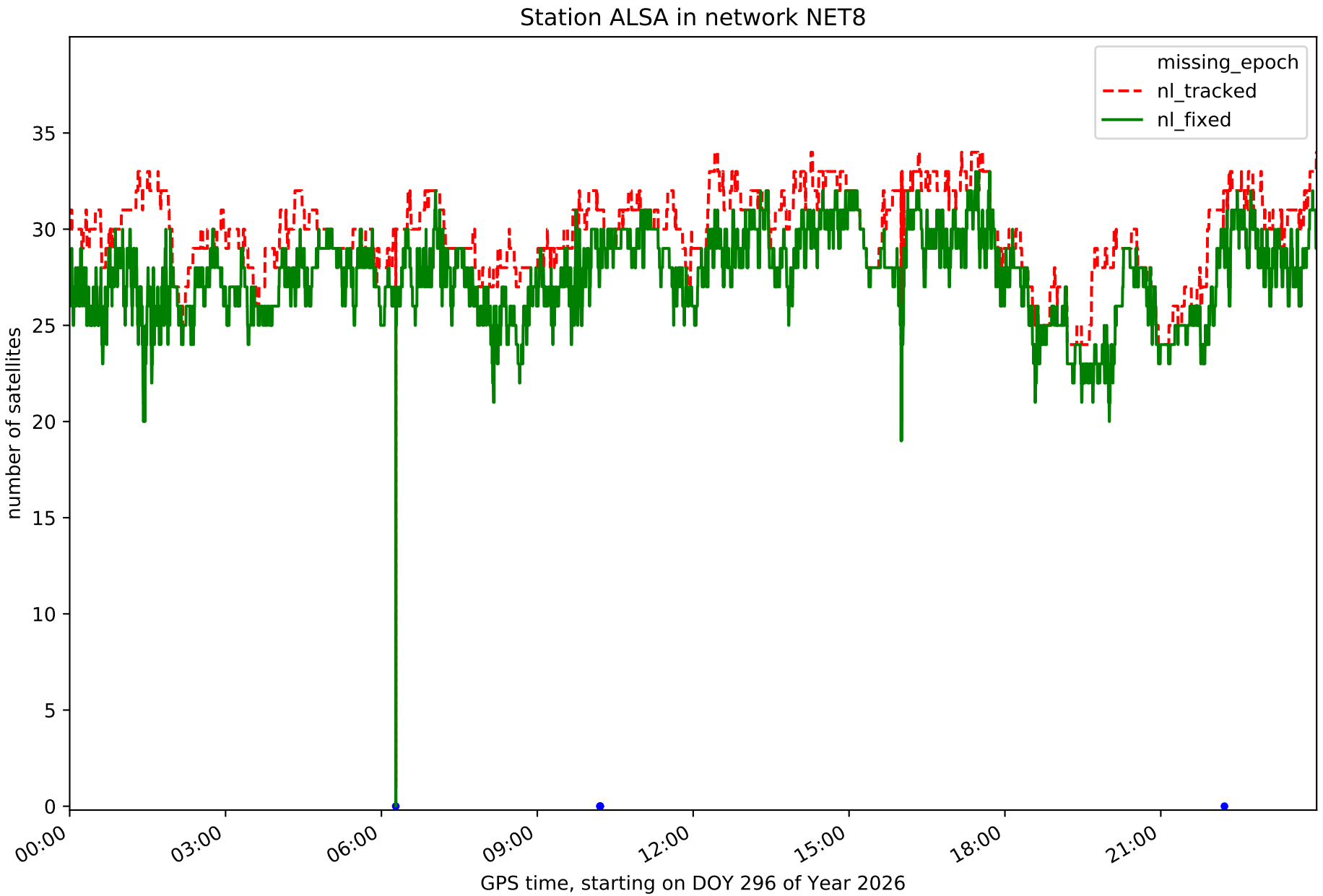

Network NET8 - only GPS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 296 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
l1_tracked
l1_fixed (93.9 % fixed)
l2_tracked
l2_fixed (93.9 % fixed)
l5_tracked
l5_fixed (93.7 % fixed)

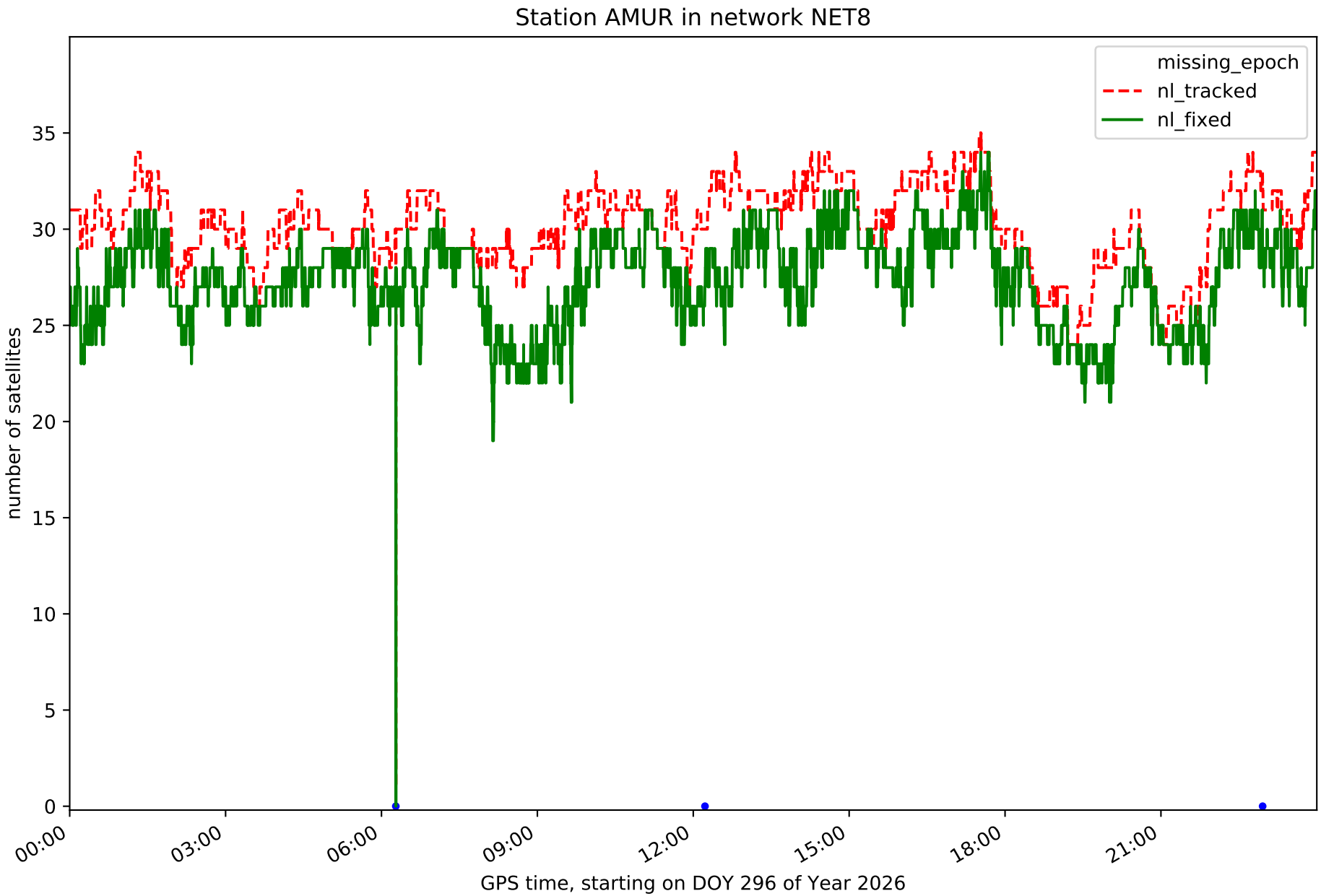

Network NET8 - only GLONASS with threshold set to 0.3
l1_tracked
l1_fixed (93.8 % fixed)
l2_tracked
l2_fixed (93.8 % fixed)
number of satellites
0
2
4
6
8
10
12
14
16
18
20
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

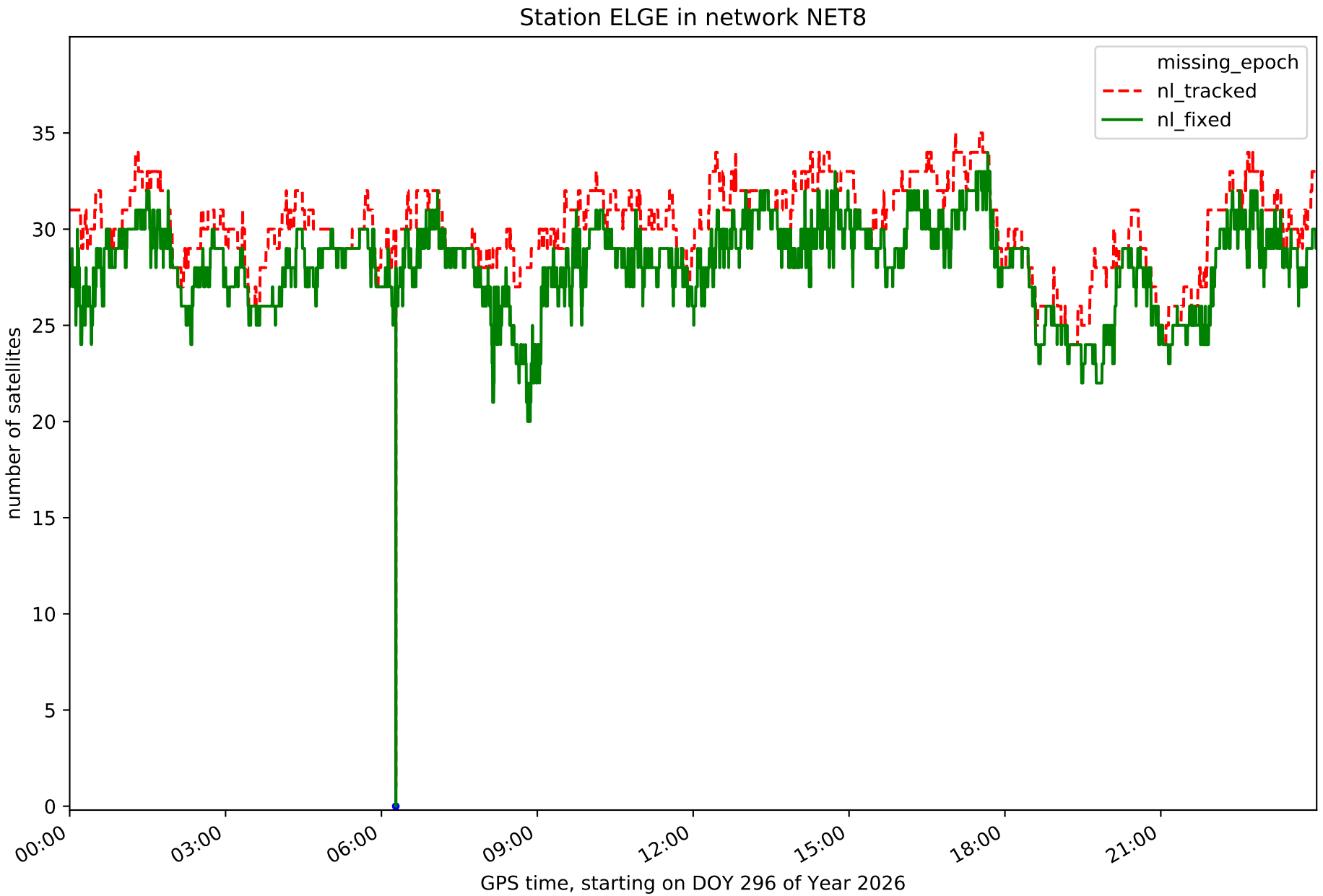

Network NET8 - only BDS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 296 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
I2_tracked
I2_fixed (92.8 % fixed)
I6_tracked
I6_fixed (92.8 % fixed)
I7_tracked
I7_fixed (0.0 % fixed)

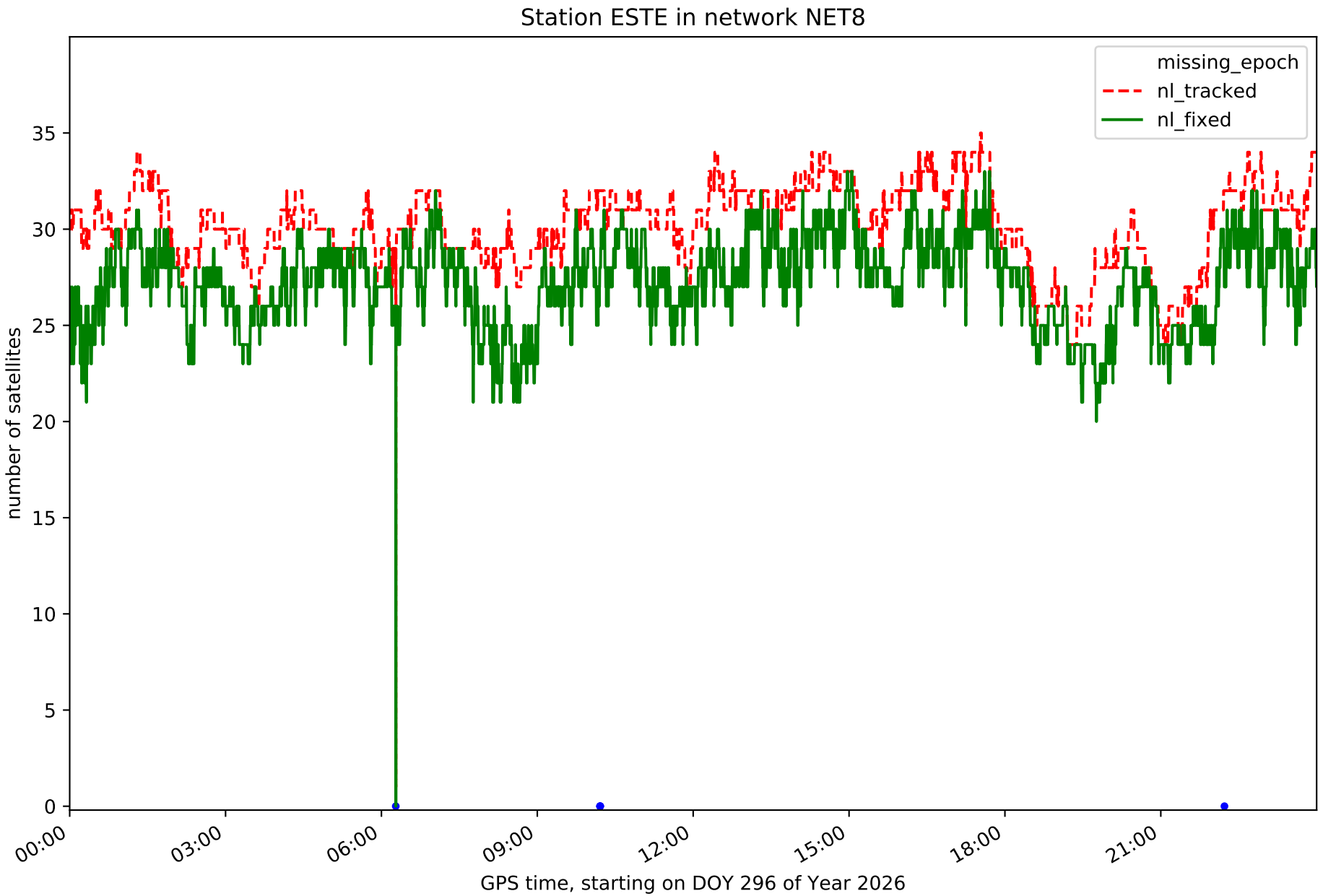

Network NET8 - only Galileo with threshold set to 0.3
number of satellites
GPS time, starting on DOY 296 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
l1_tracked
l1_fixed (95.2 % fixed)
l5_tracked
l5_fixed (95.1 % fixed)
l7_tracked
l7_fixed (95.2 % fixed)

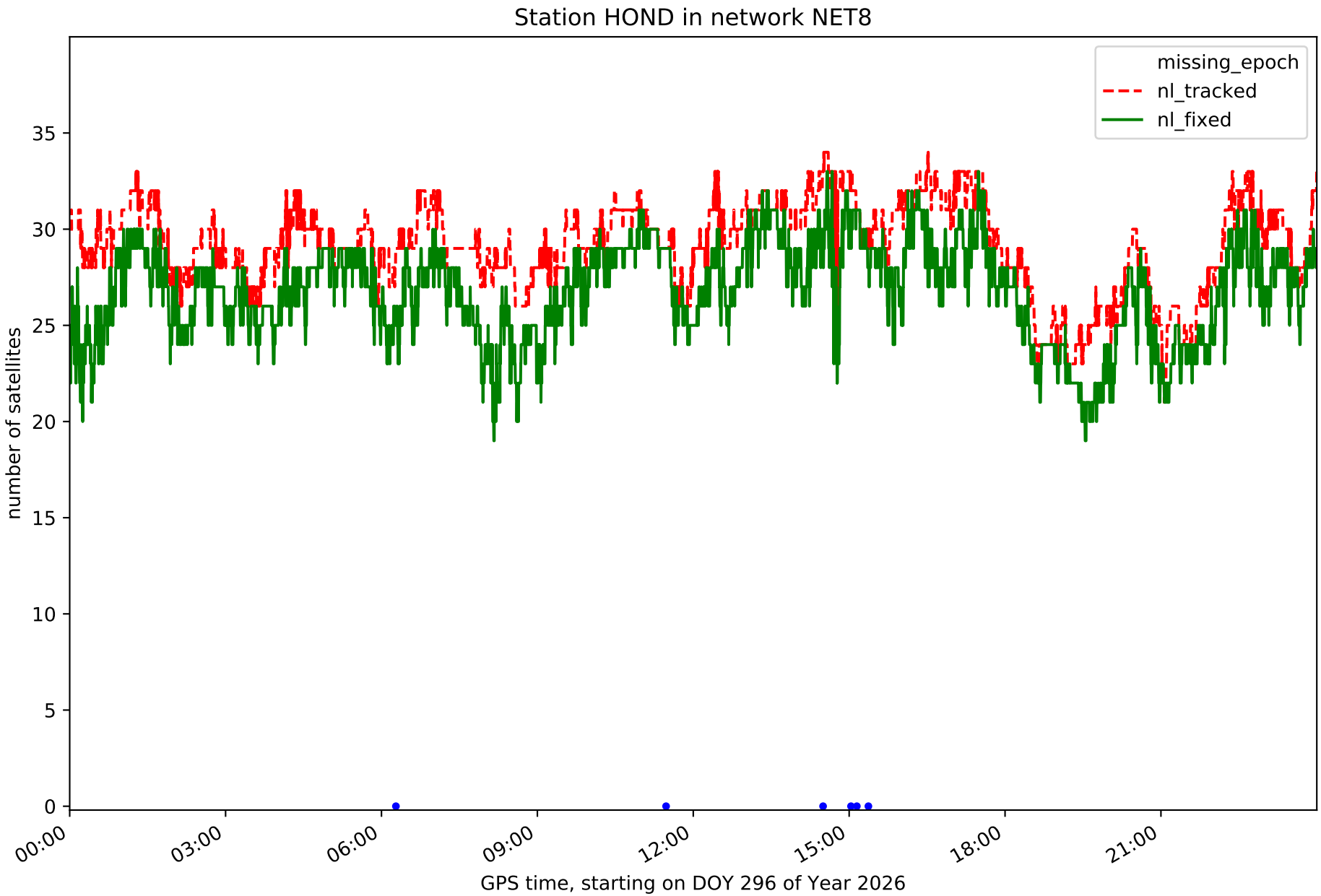

Station ALDA in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

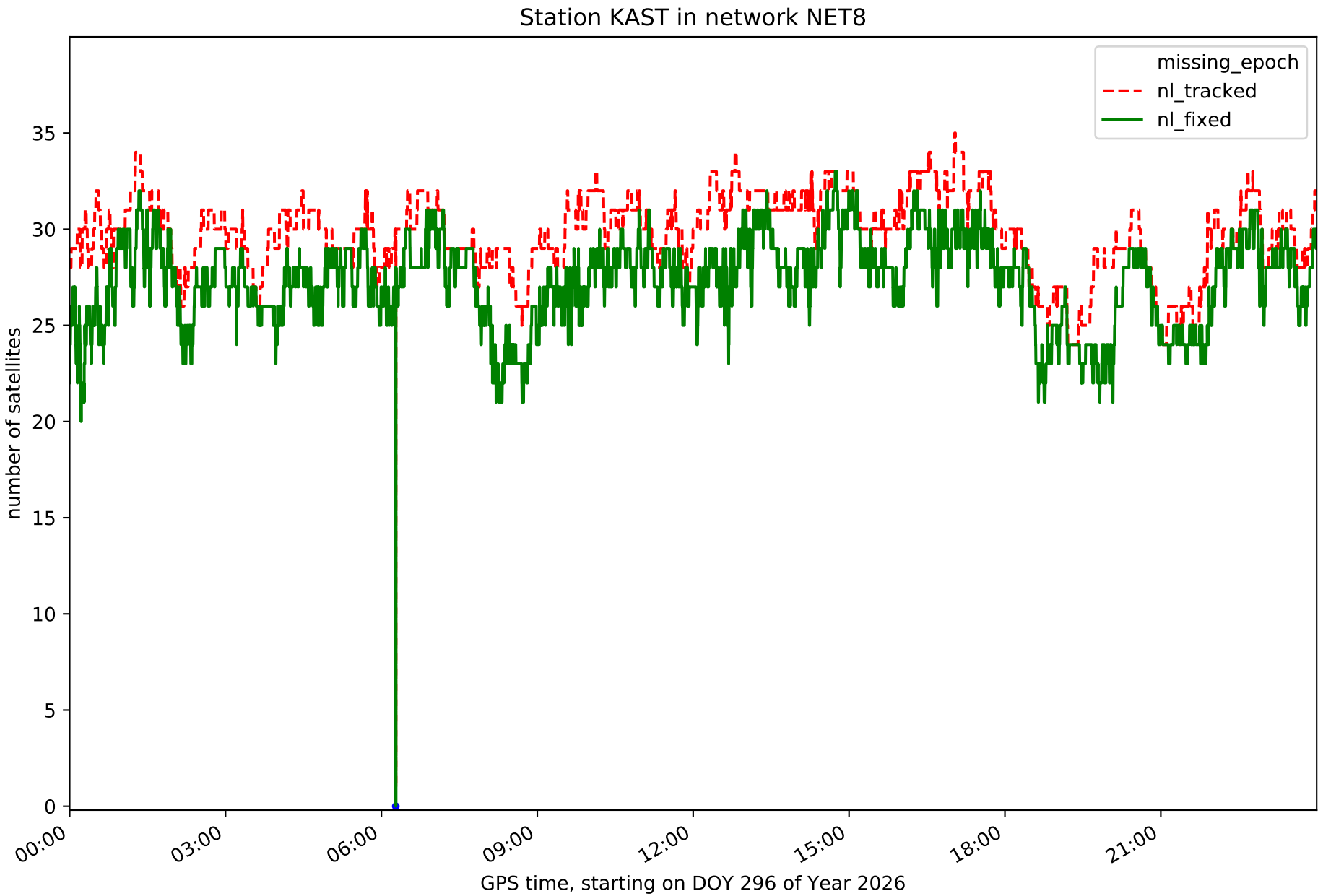

Station ALSA in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

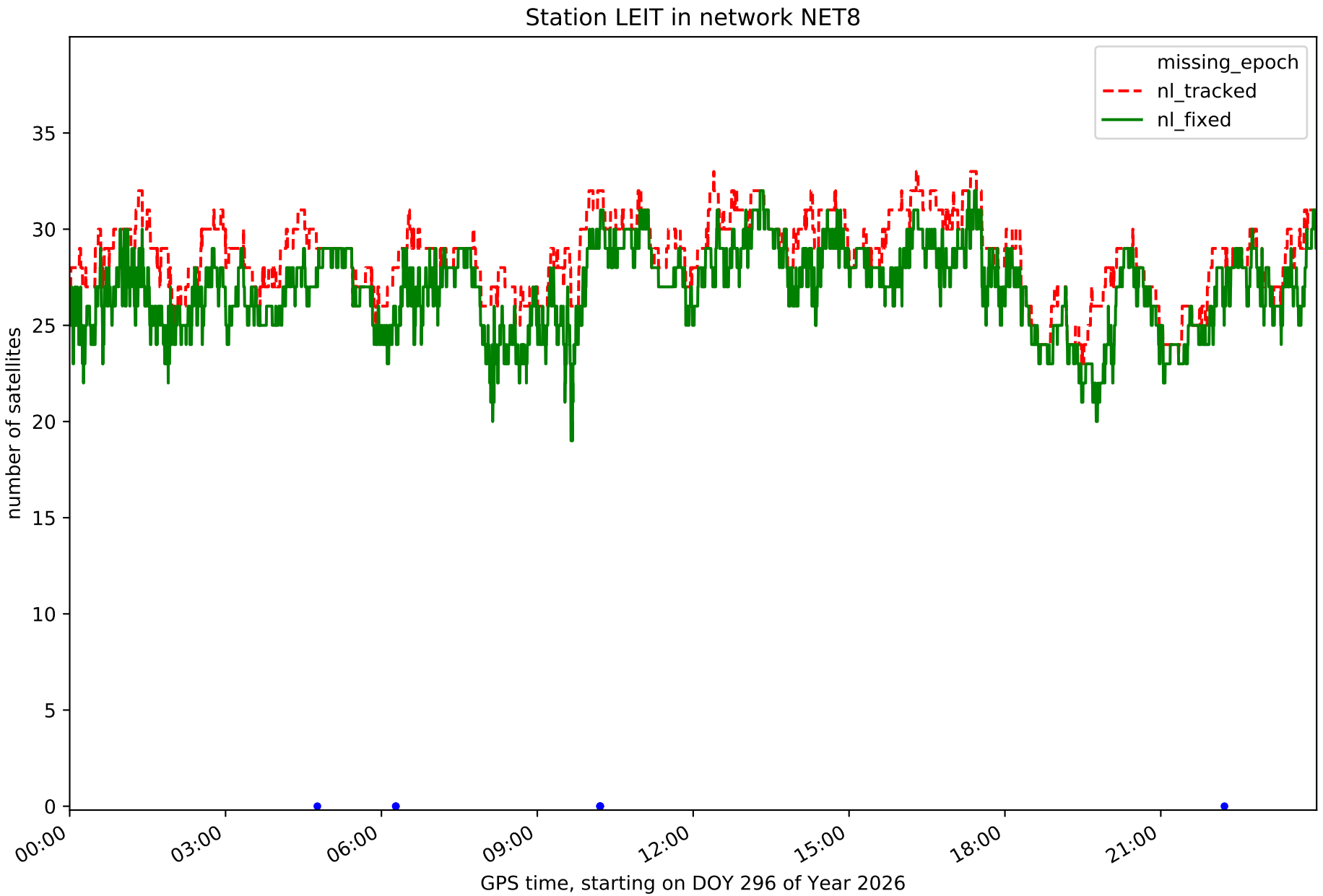

Station AMUR in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

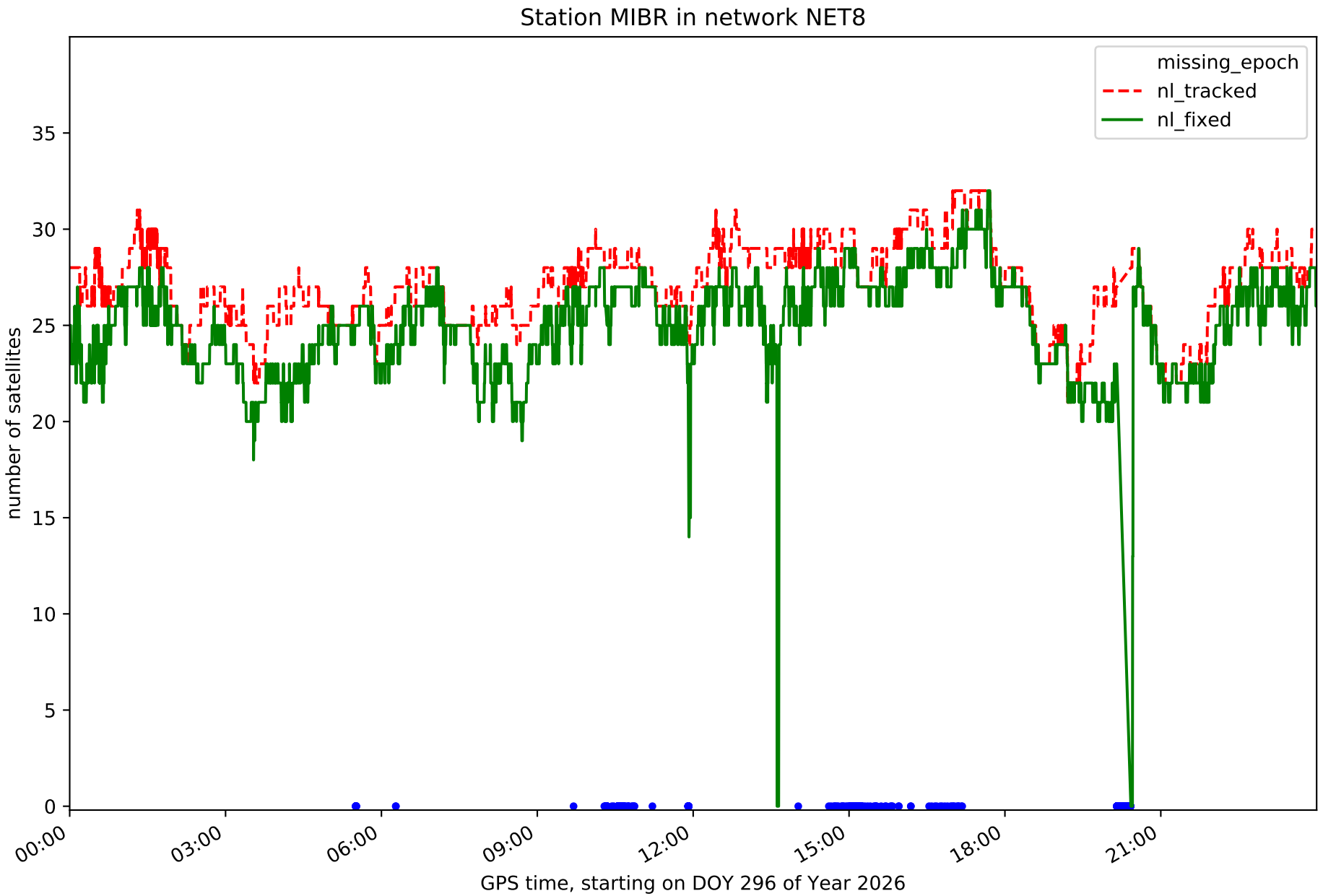

Station ELGE in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

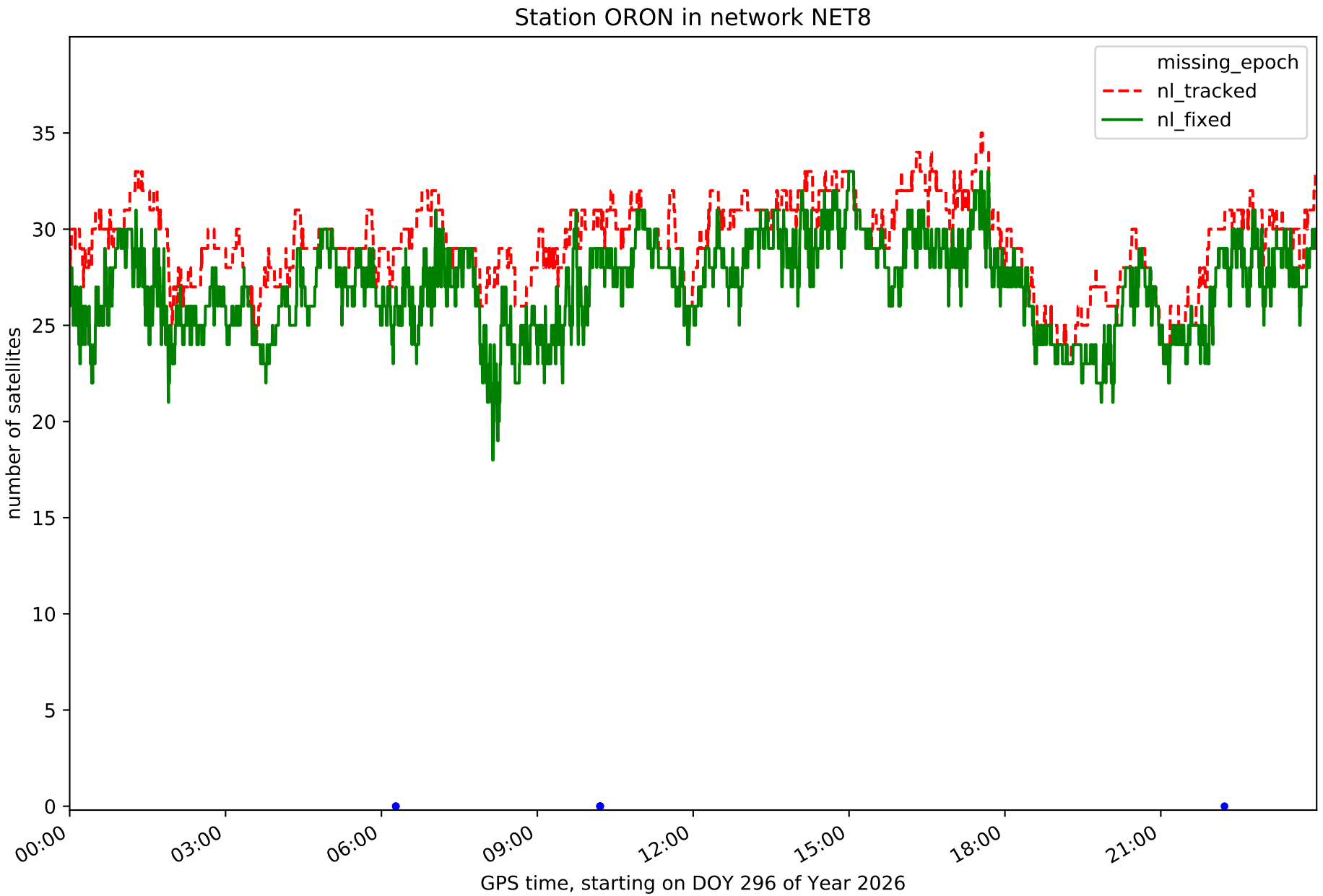

Station ESTE in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

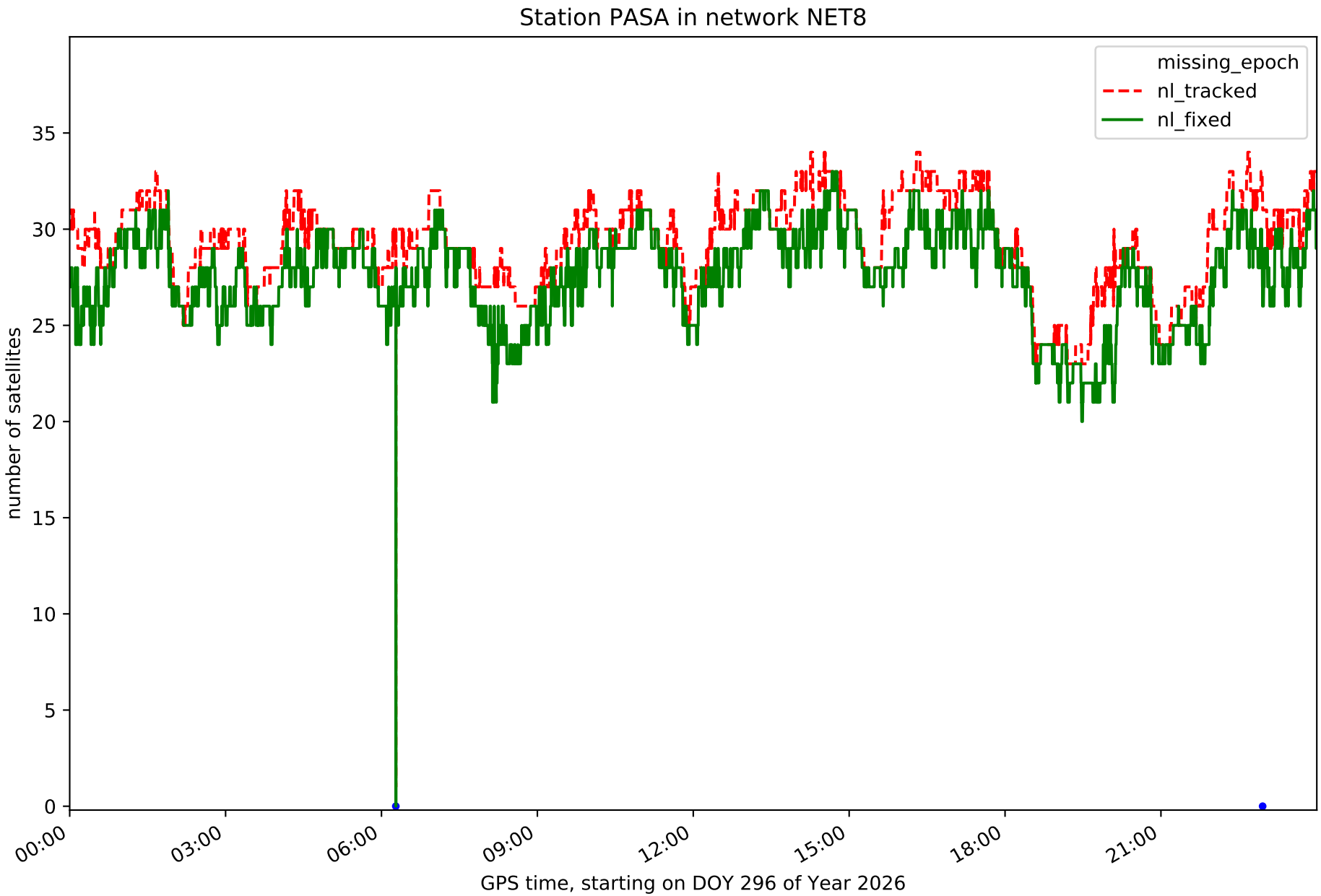

Station HOND in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

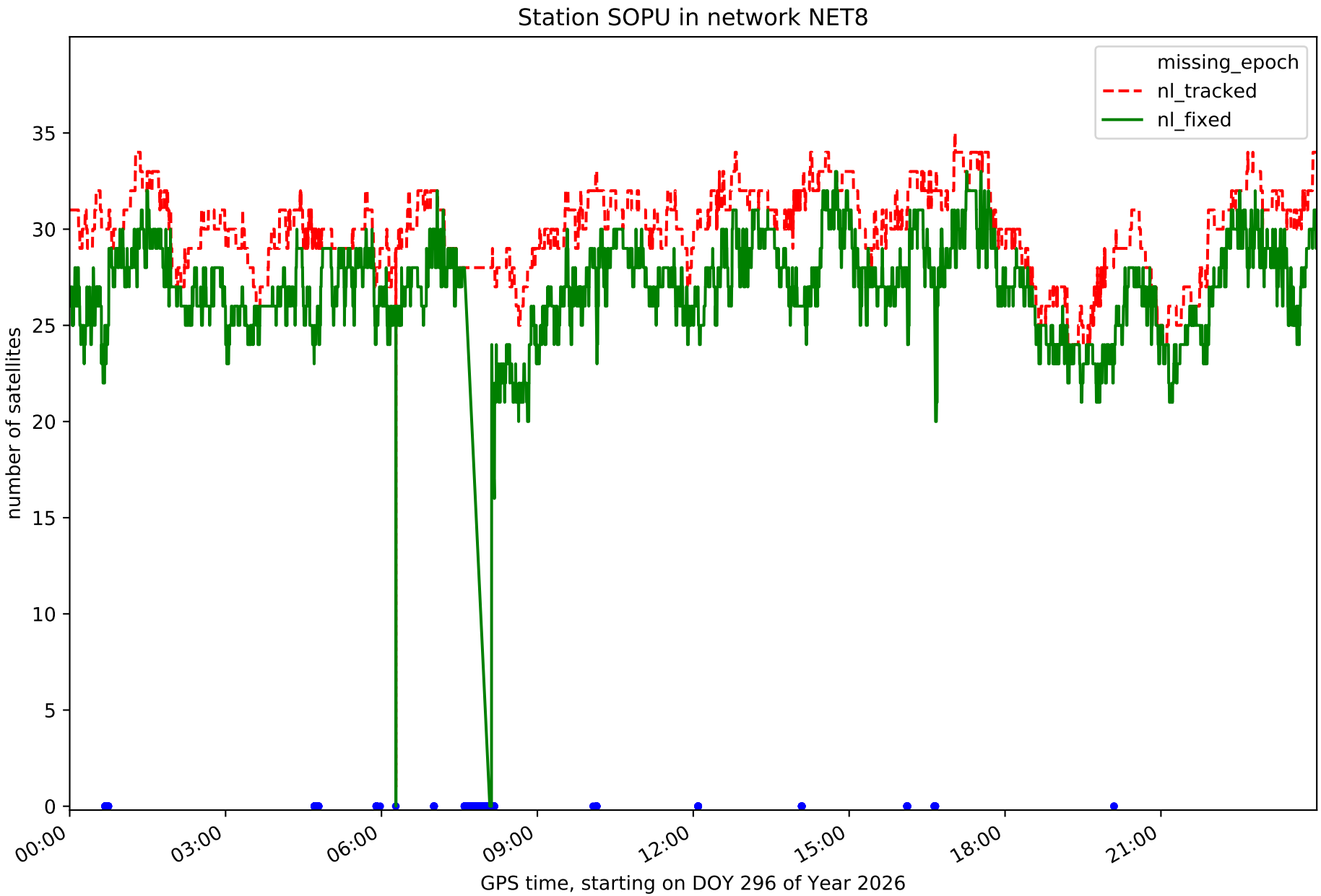

Station KAST in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

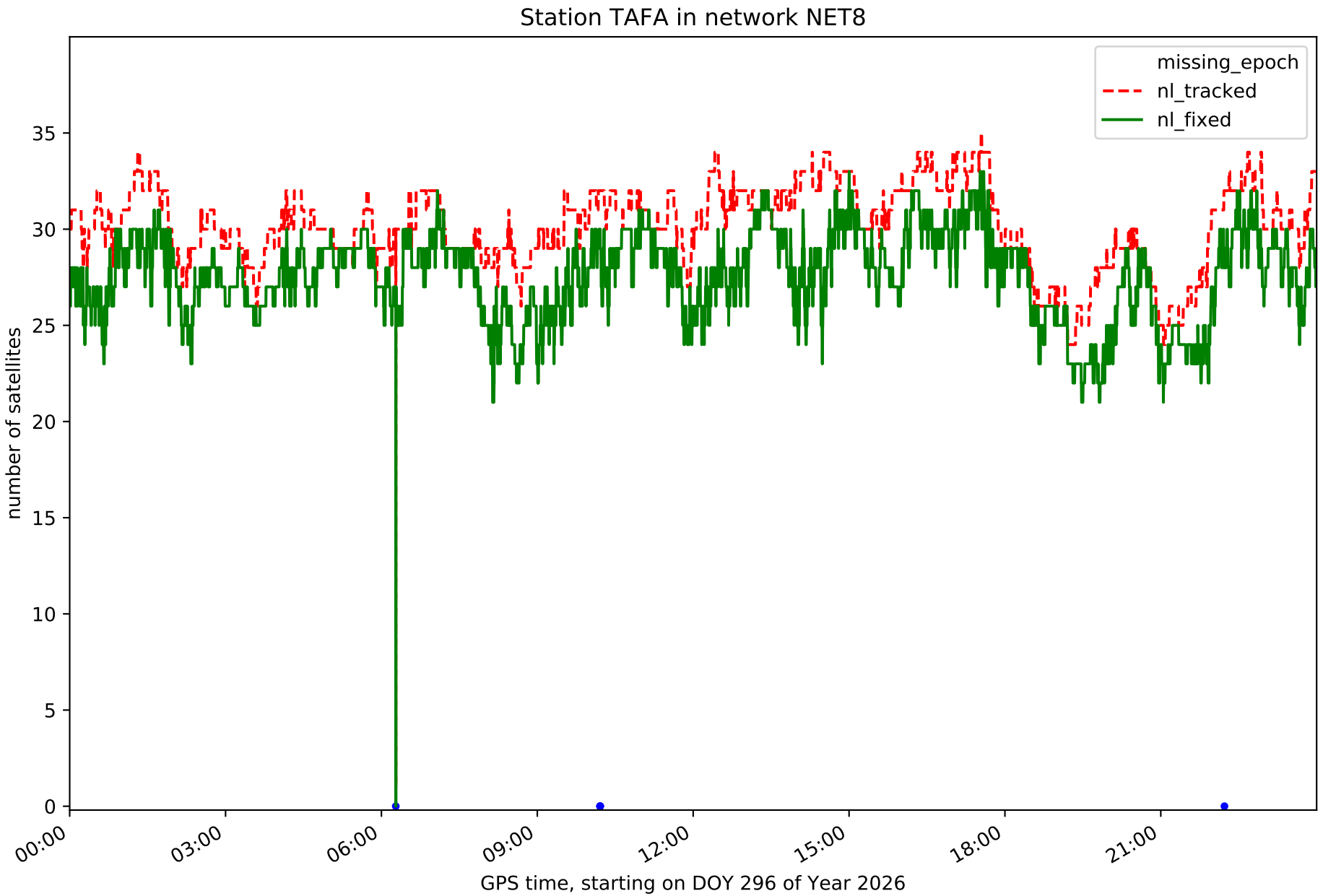

Station LEIT in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

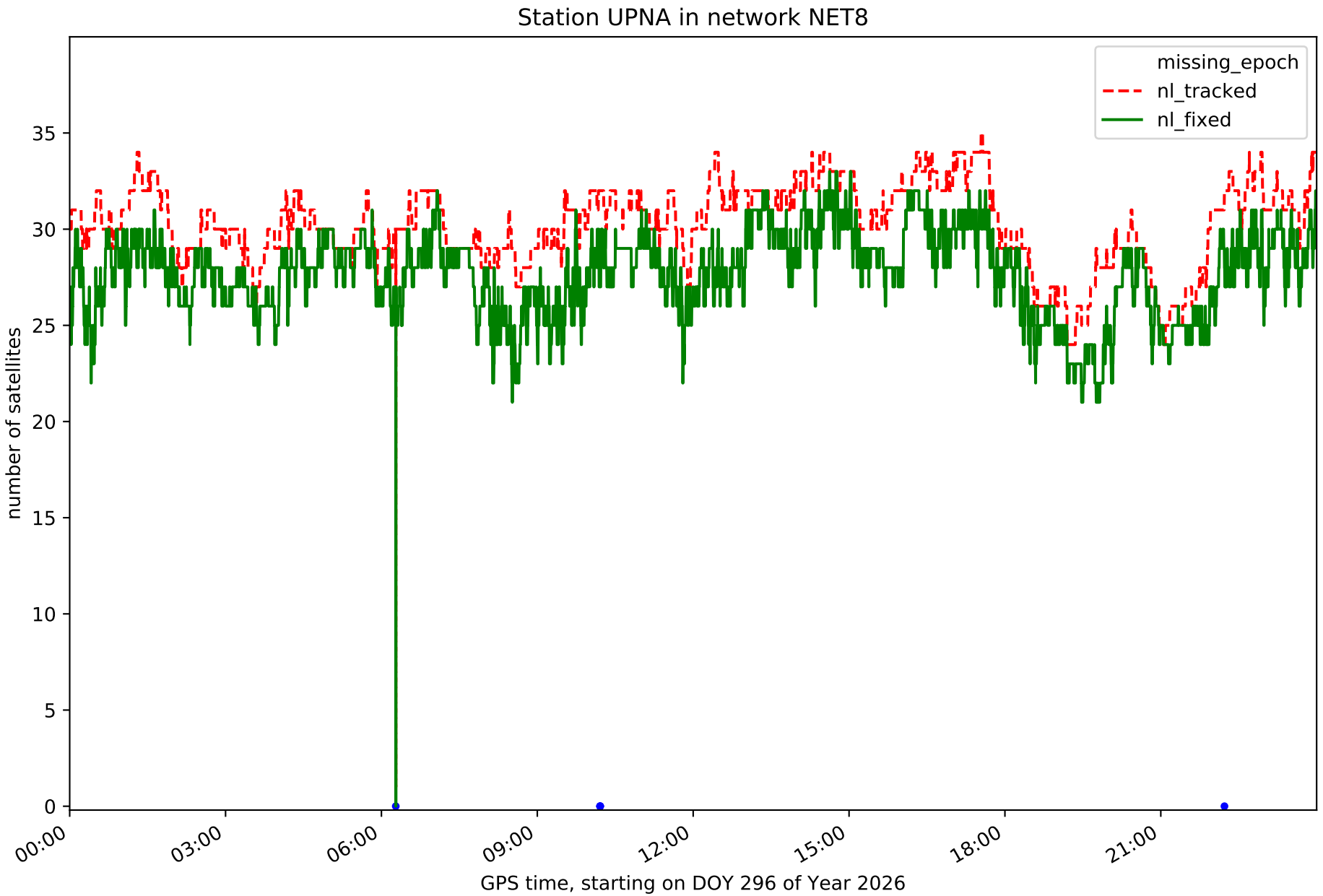

Station MIBR in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

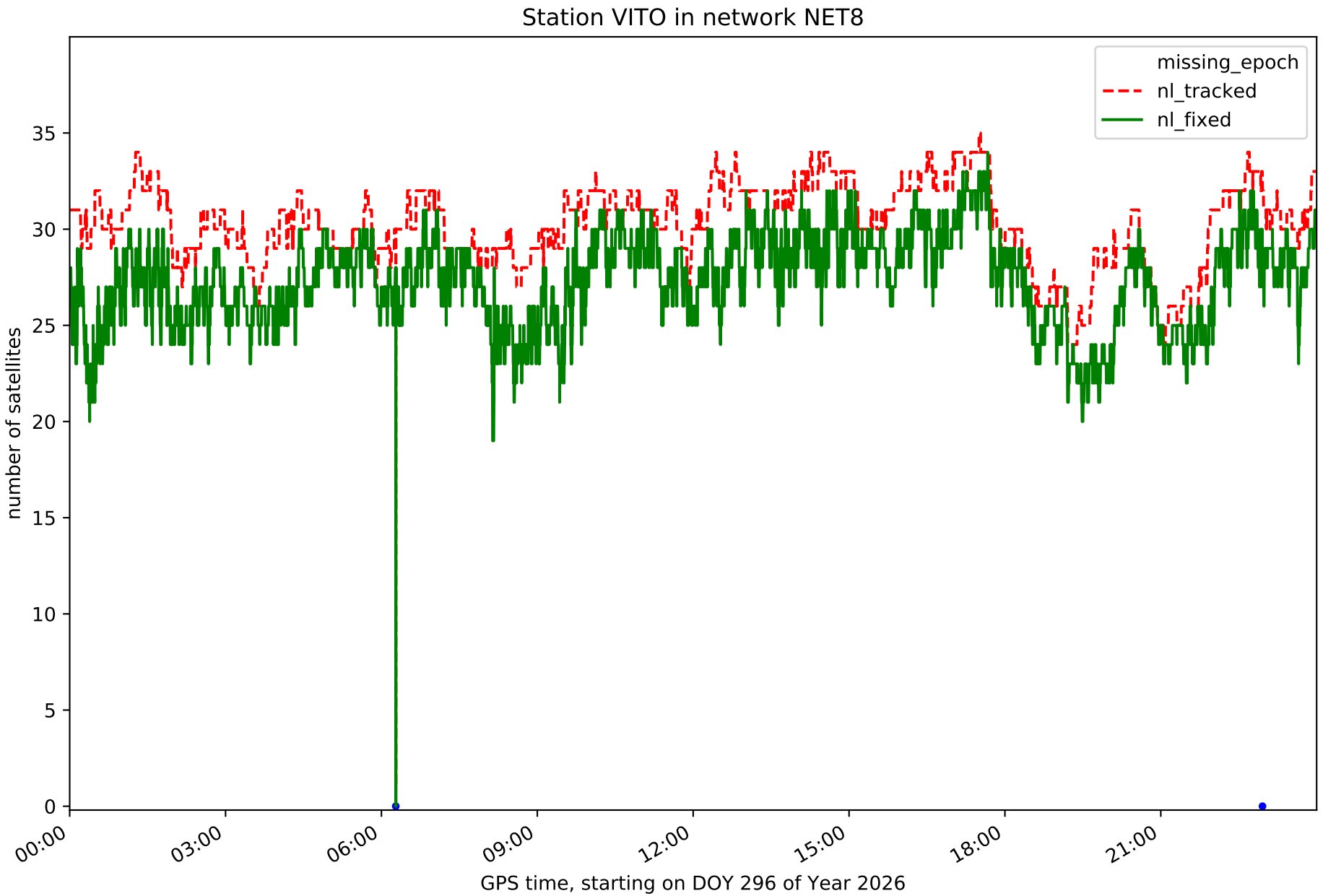

Station ORON in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

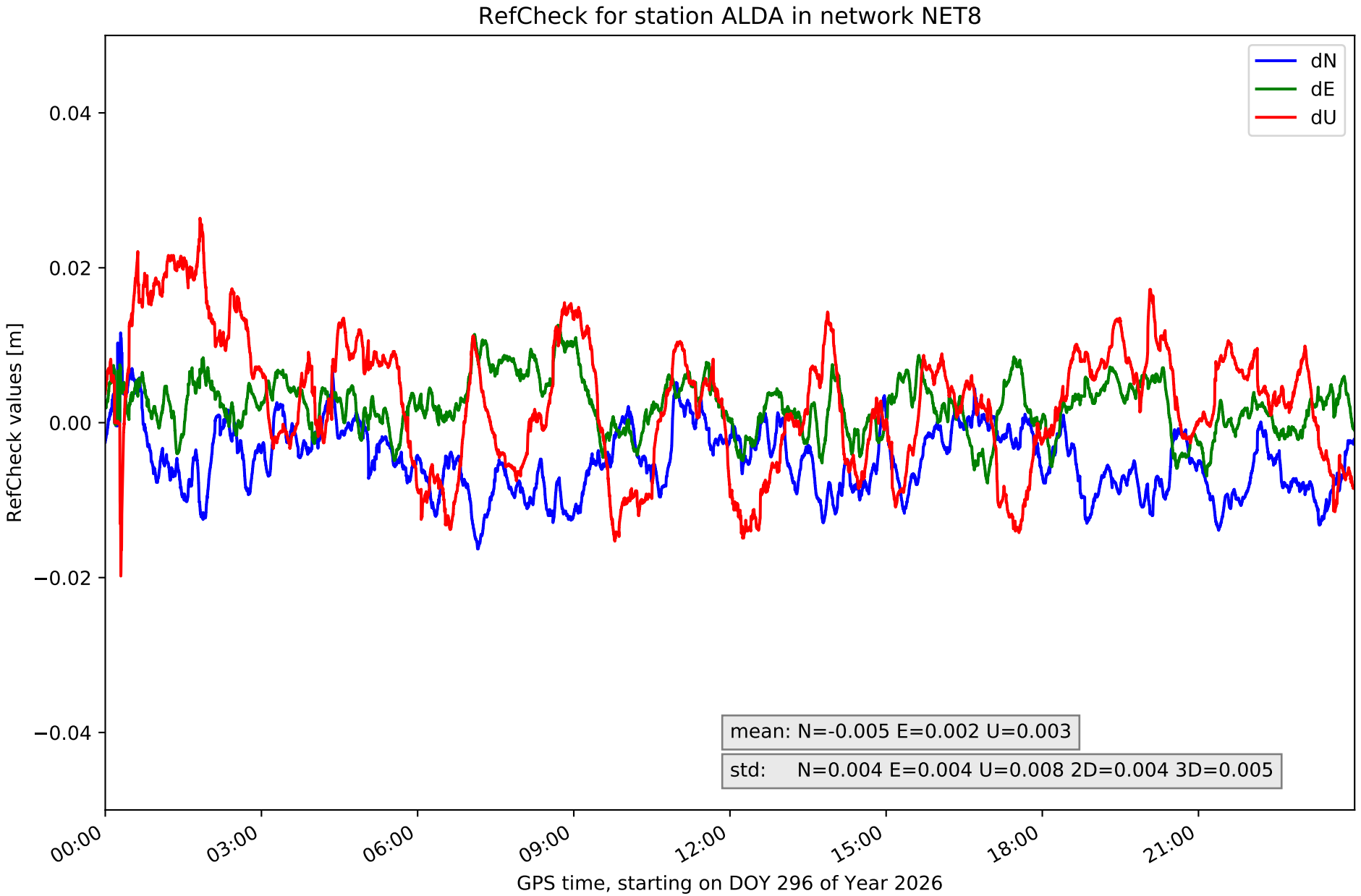

Station PASA in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

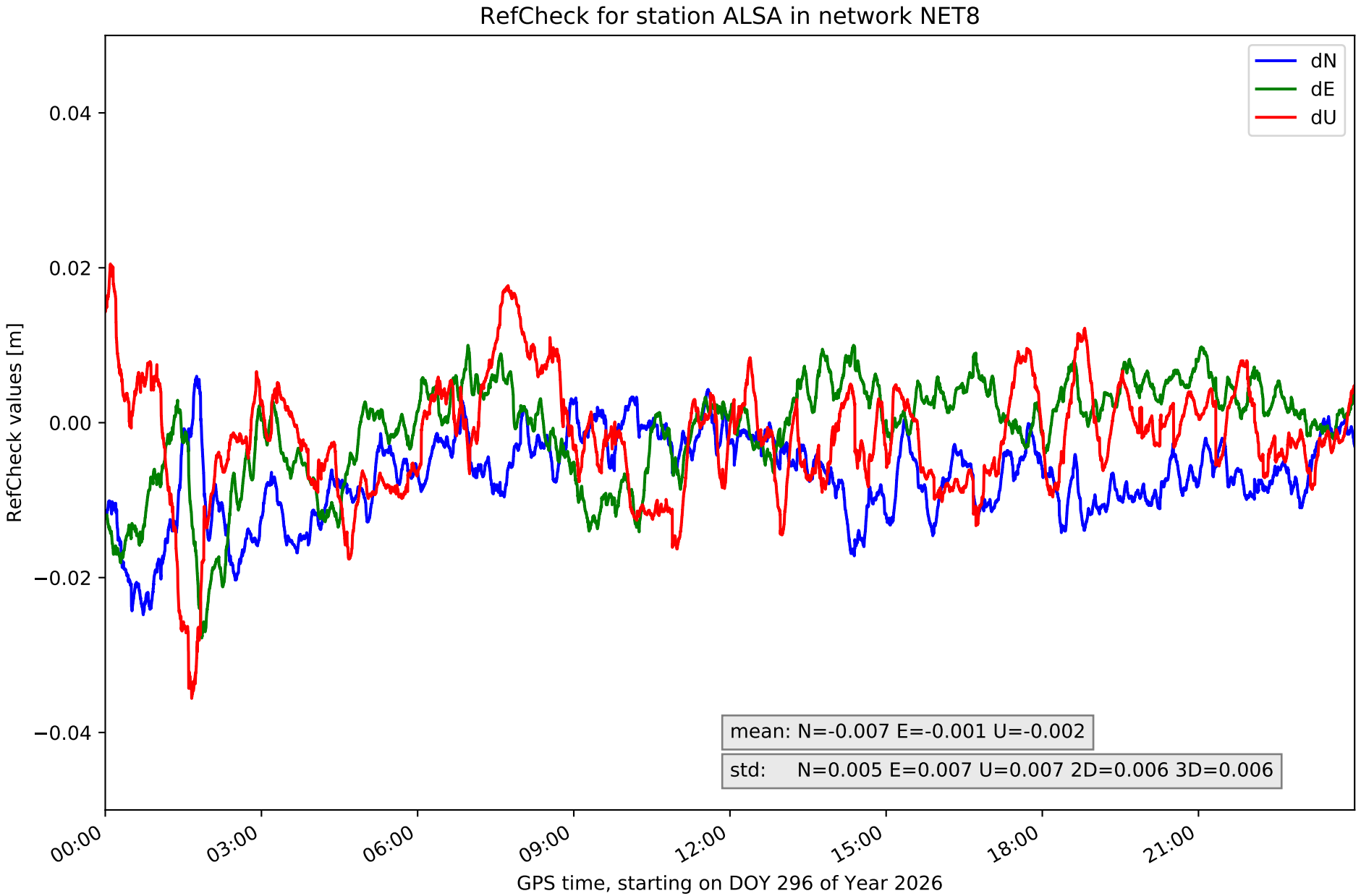

Station SOPU in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

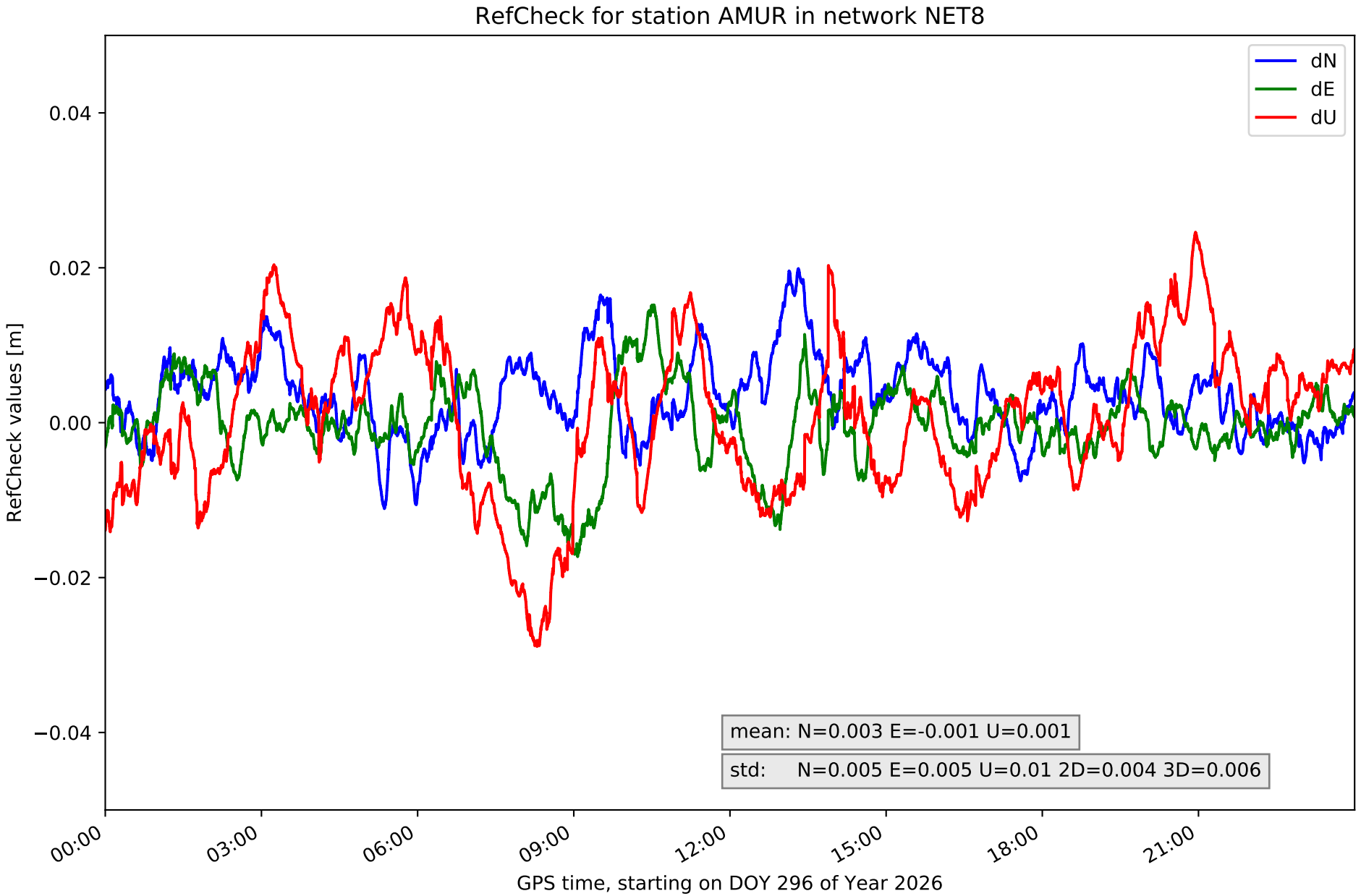

Station TAFA in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

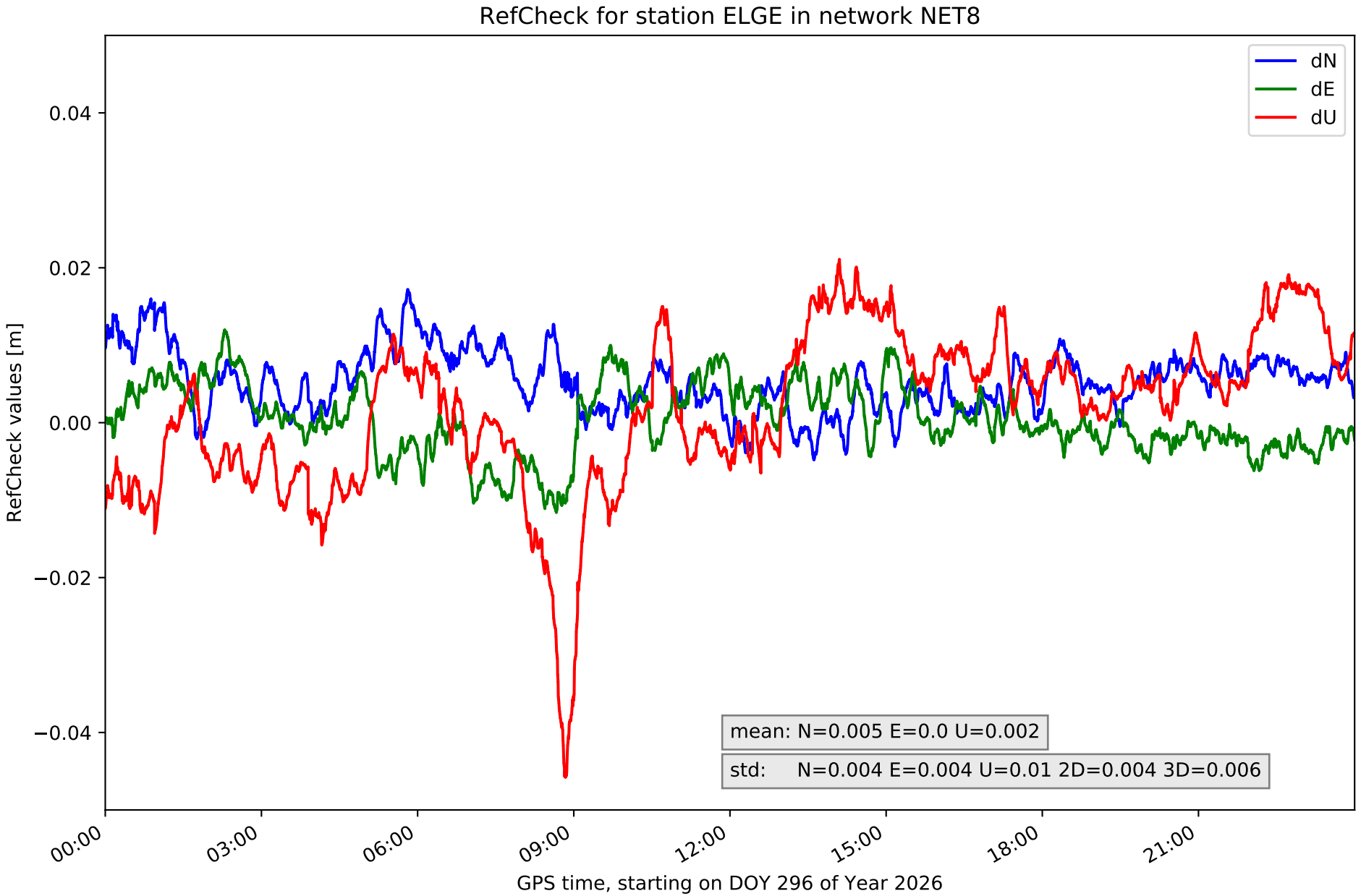

Station UPNA in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

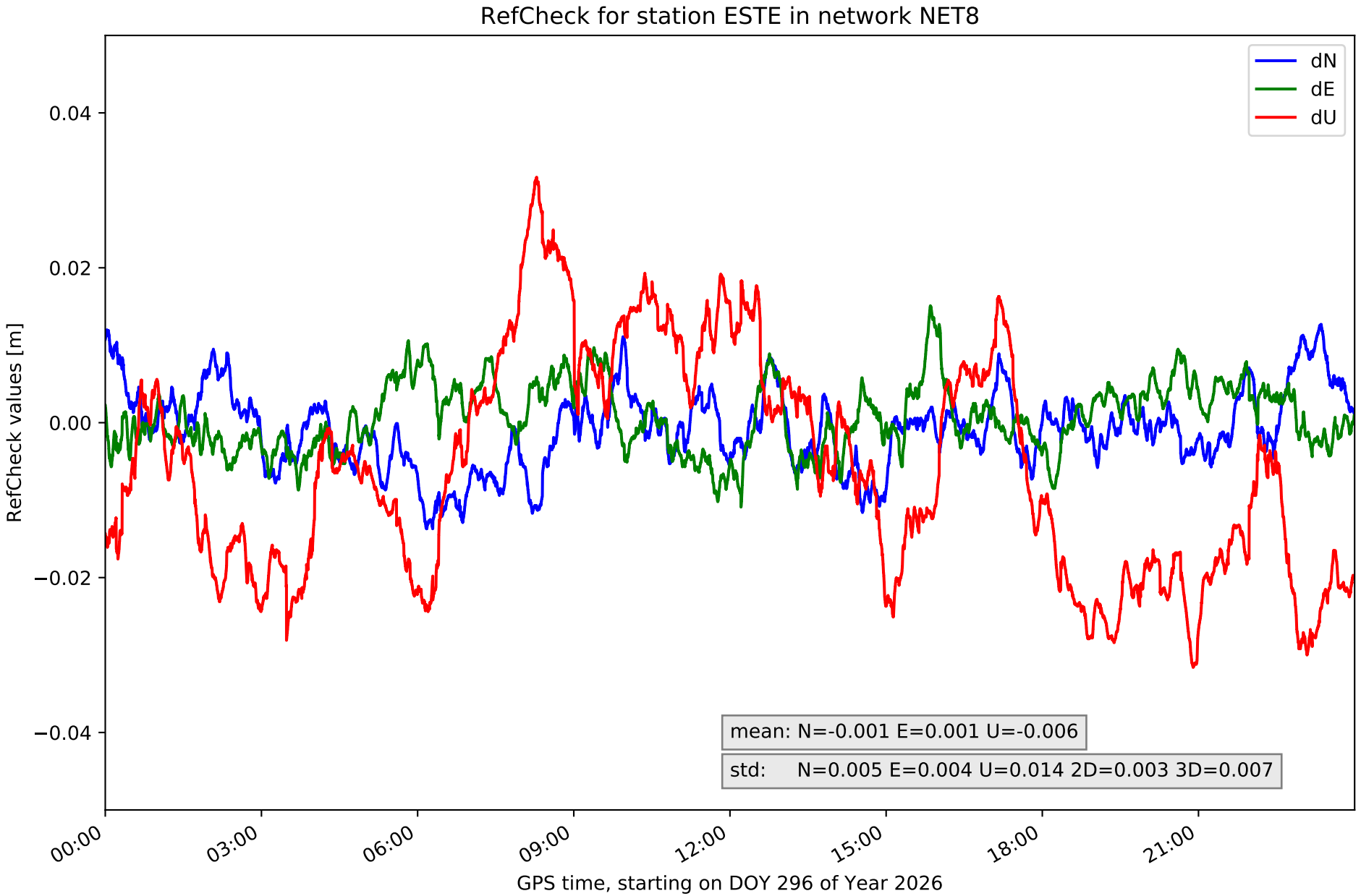

Station VITO in network NET8
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

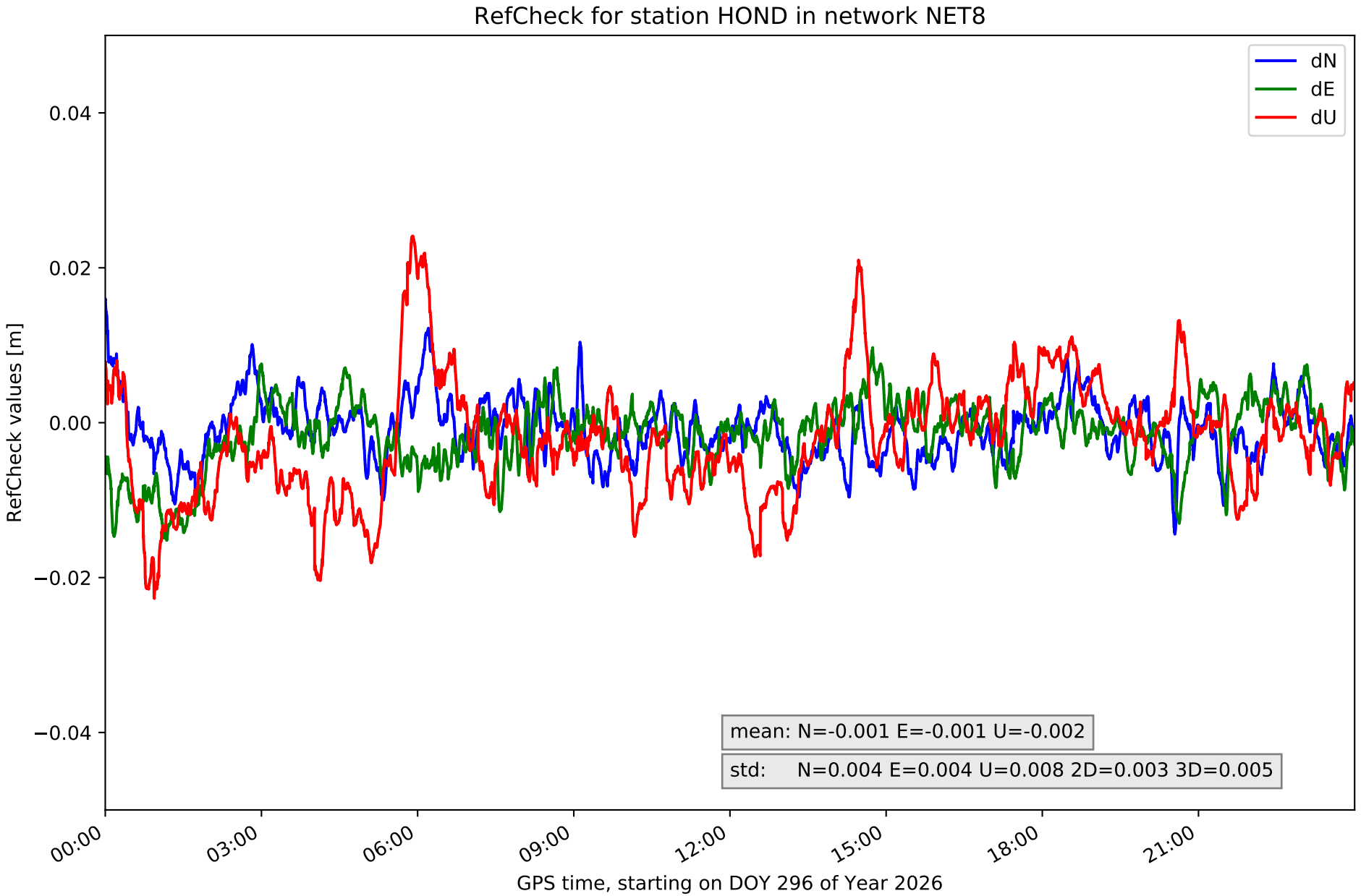

RefCheck for station ALDA in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.005 E=0.002 U=0.003
std: N=0.004 E=0.004 U=0.008 2D=0.004 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

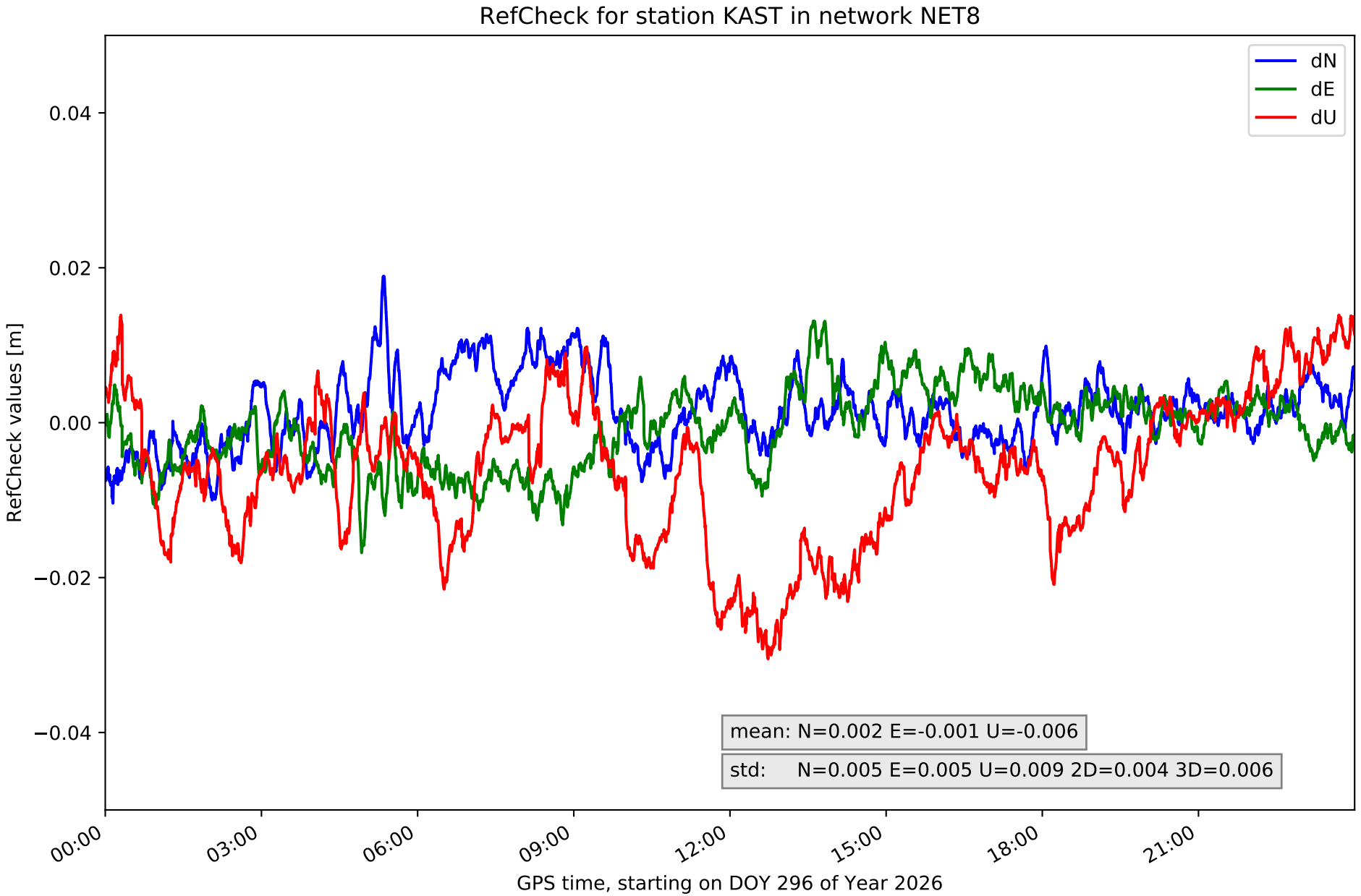

RefCheck for station ALSA in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.007 E=-0.001 U=-0.002
std: N=0.005 E=0.007 U=0.007 2D=0.006 3D=0.006
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

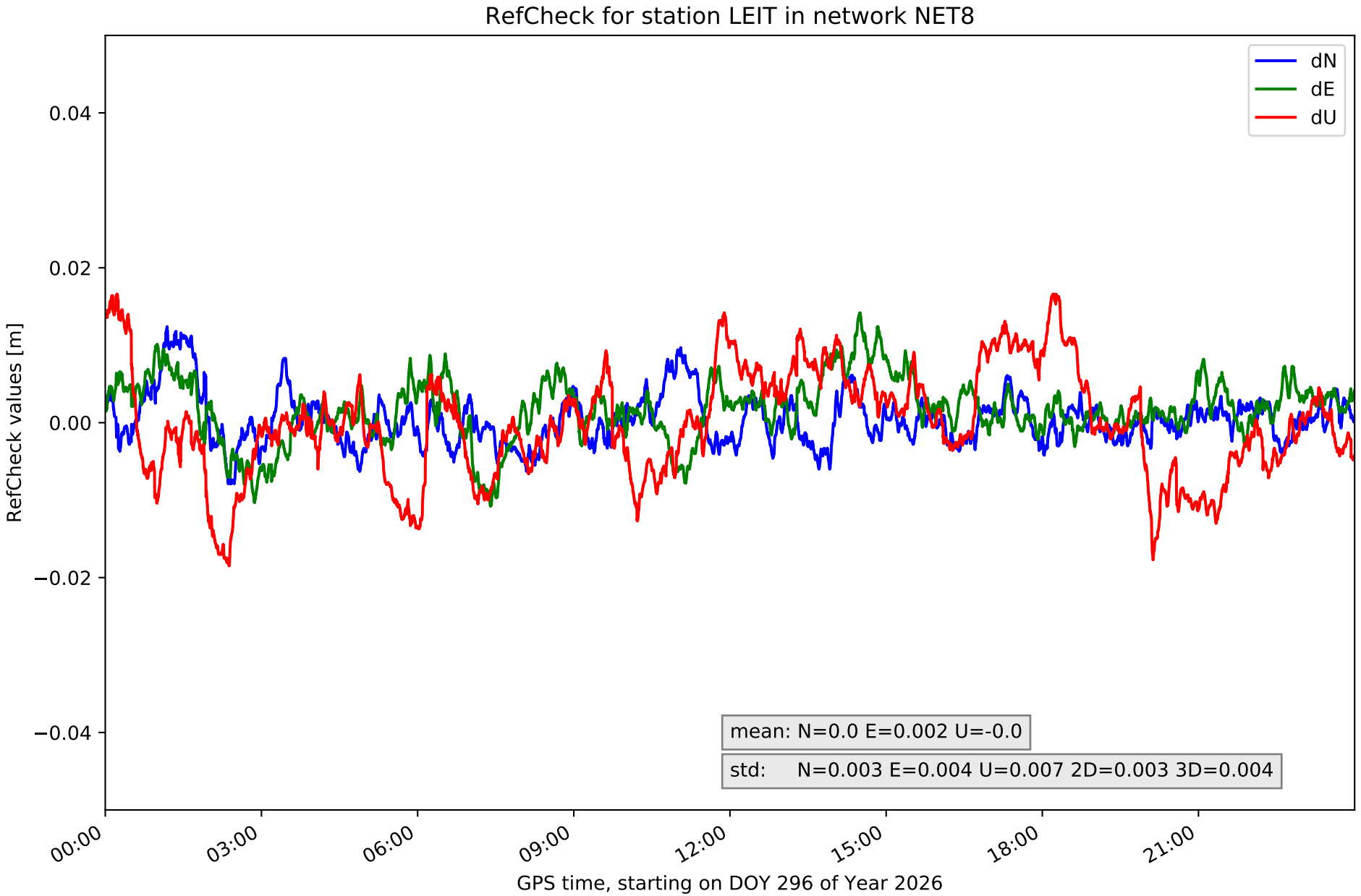

RefCheck for station AMUR in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.003 E=-0.001 U=0.001
std: N=0.005 E=0.005 U=0.01 2D=0.004 3D=0.006
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

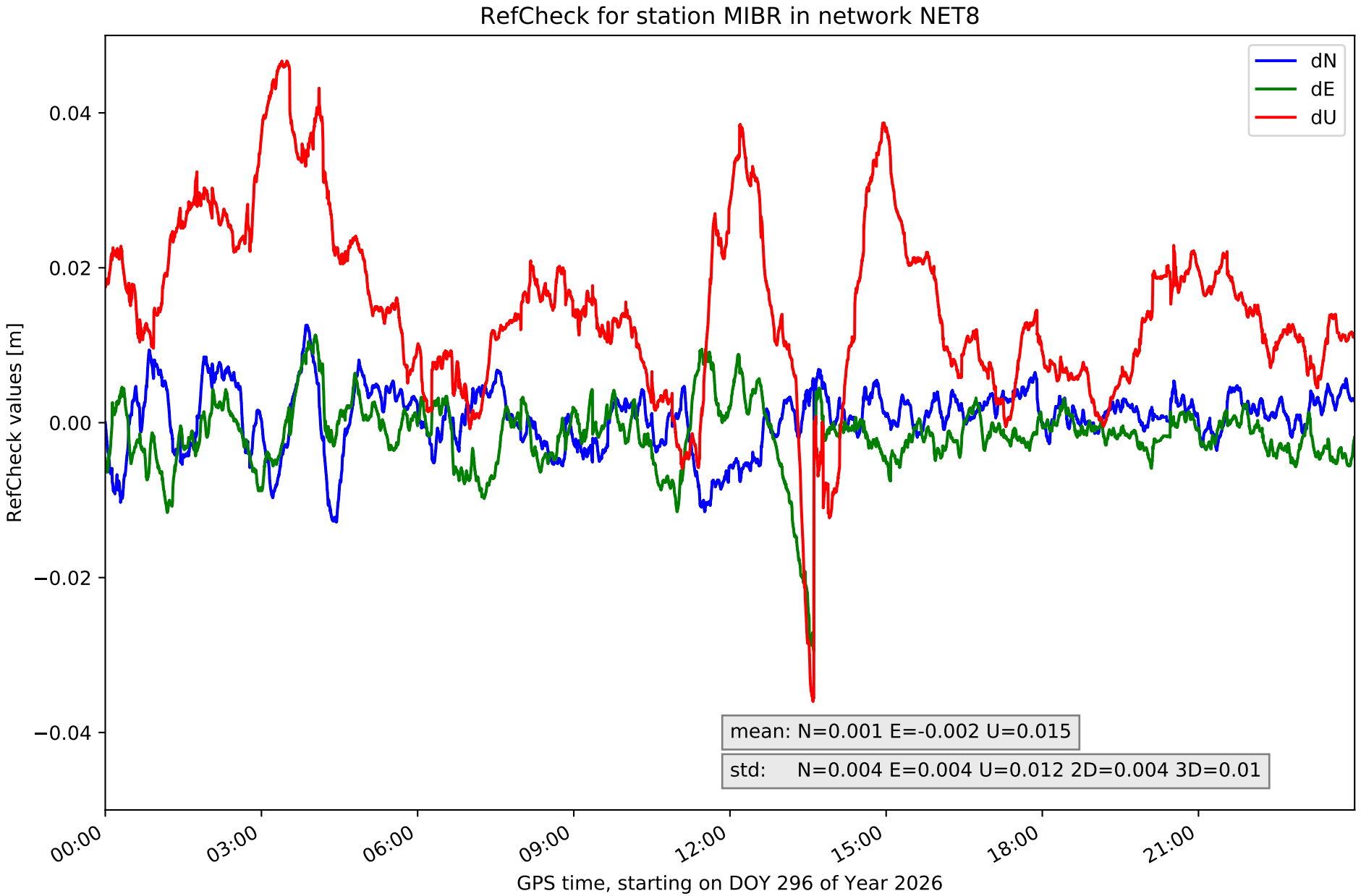

RefCheck for station ELGE in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.005 E=0.0 U=0.002
std: N=0.004 E=0.004 U=0.01 2D=0.004 3D=0.006
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

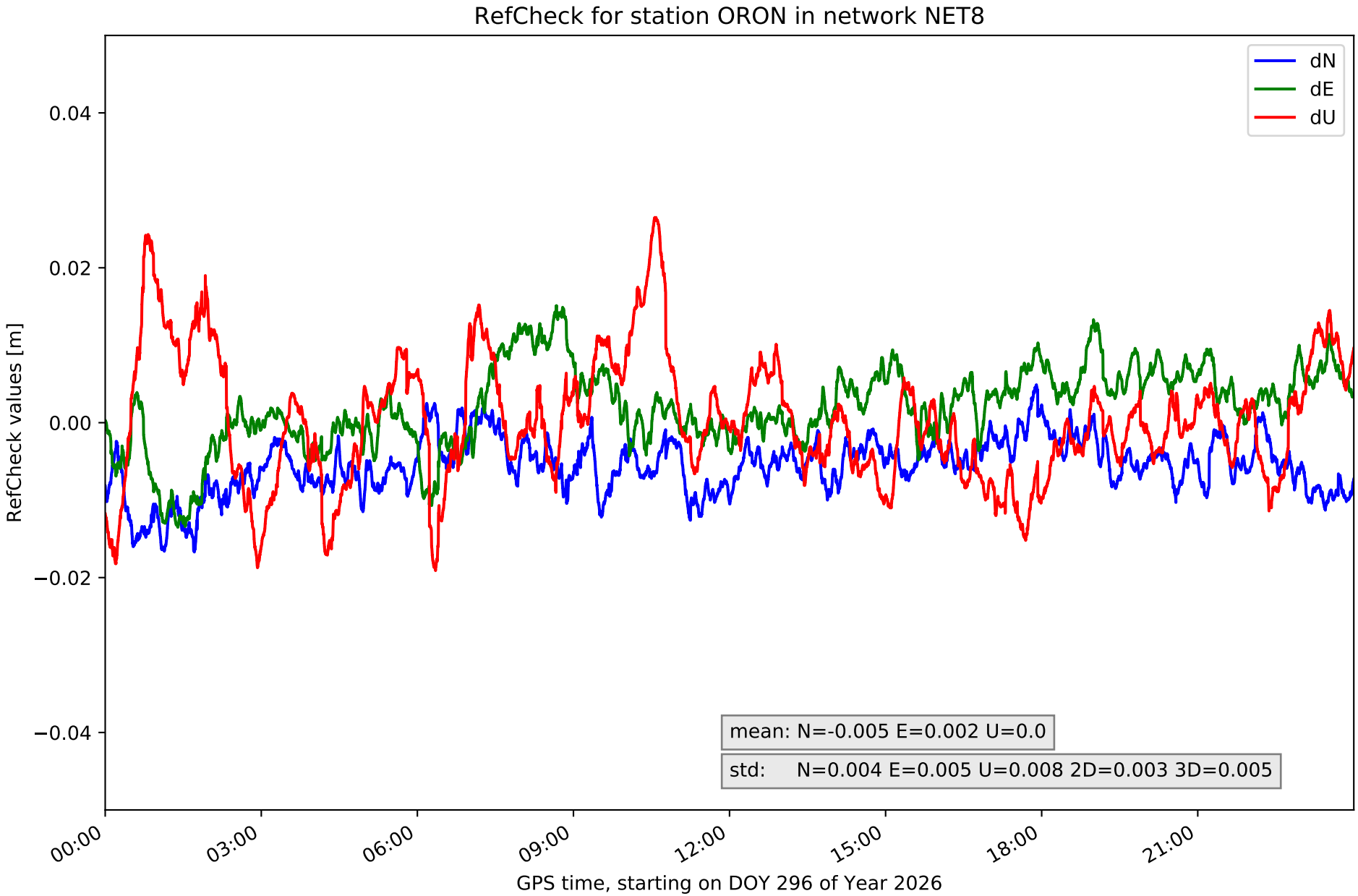

RefCheck for station ESTE in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=0.001 U=-0.006
std: N=0.005 E=0.004 U=0.014 2D=0.003 3D=0.007
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

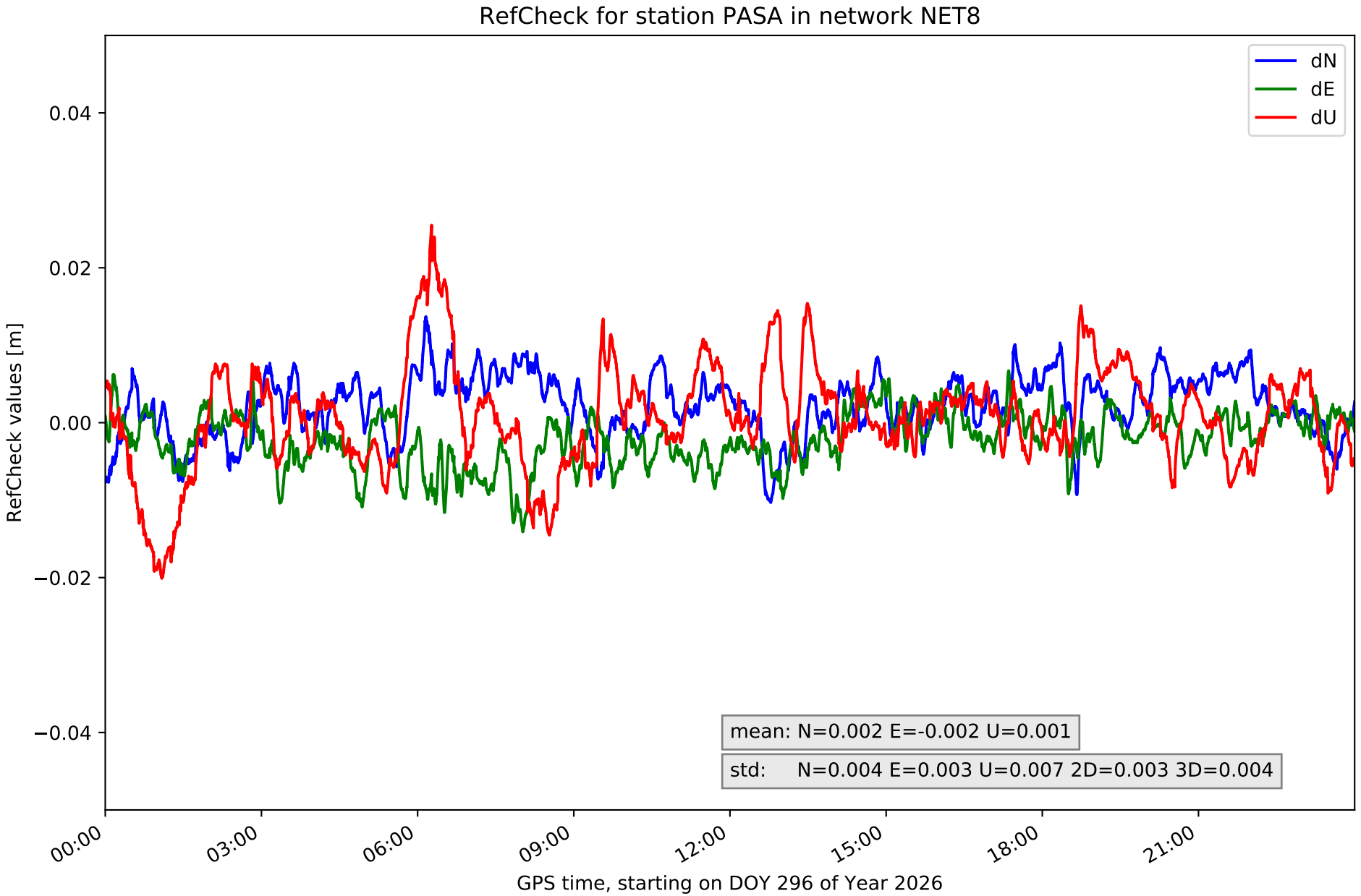

RefCheck for station HOND in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.001 U=-0.002
std: N=0.004 E=0.004 U=0.008 2D=0.003 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

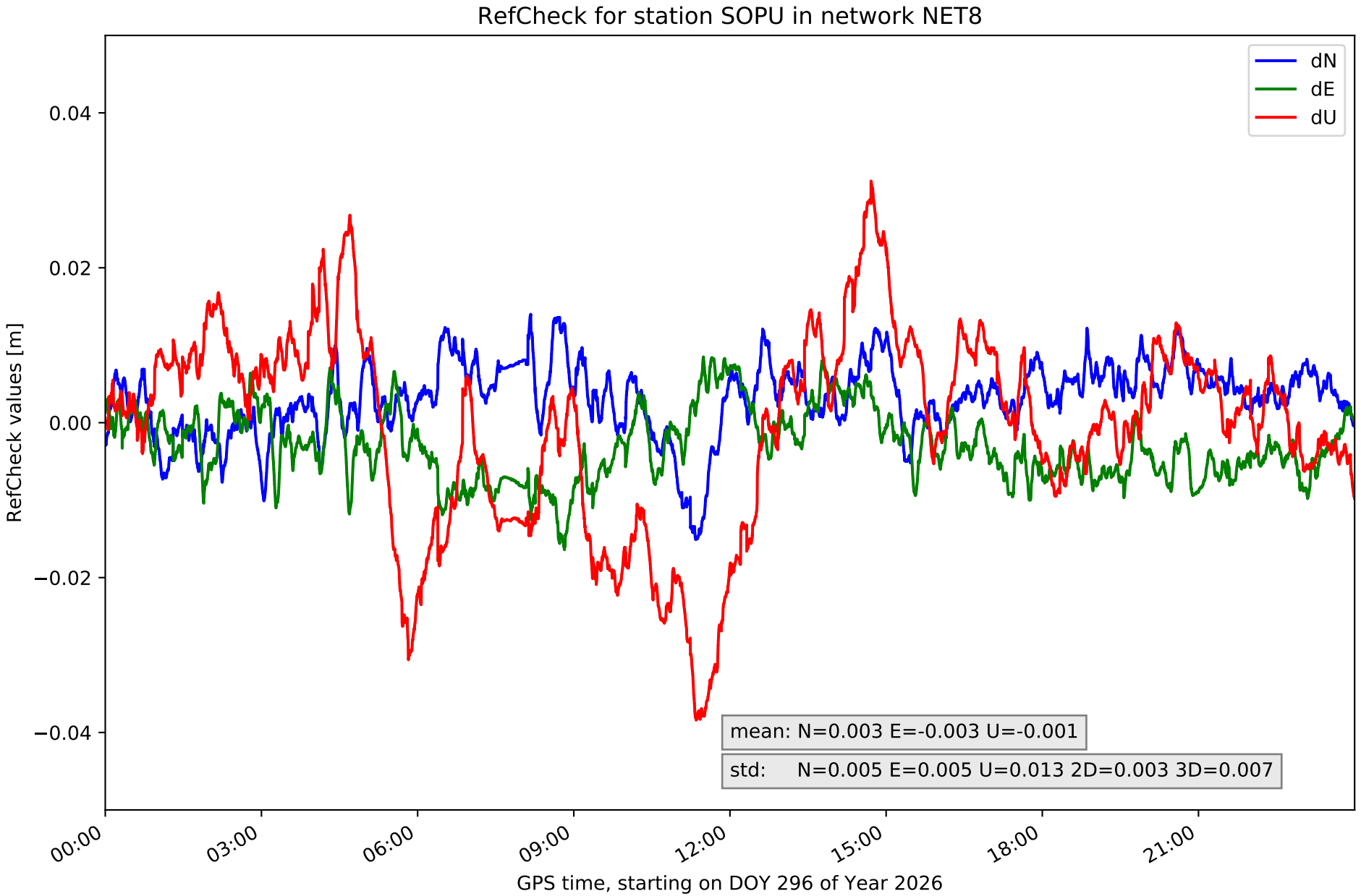

RefCheck for station KAST in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.002 E=-0.001 U=-0.006
std: N=0.005 E=0.005 U=0.009 2D=0.004 3D=0.006
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

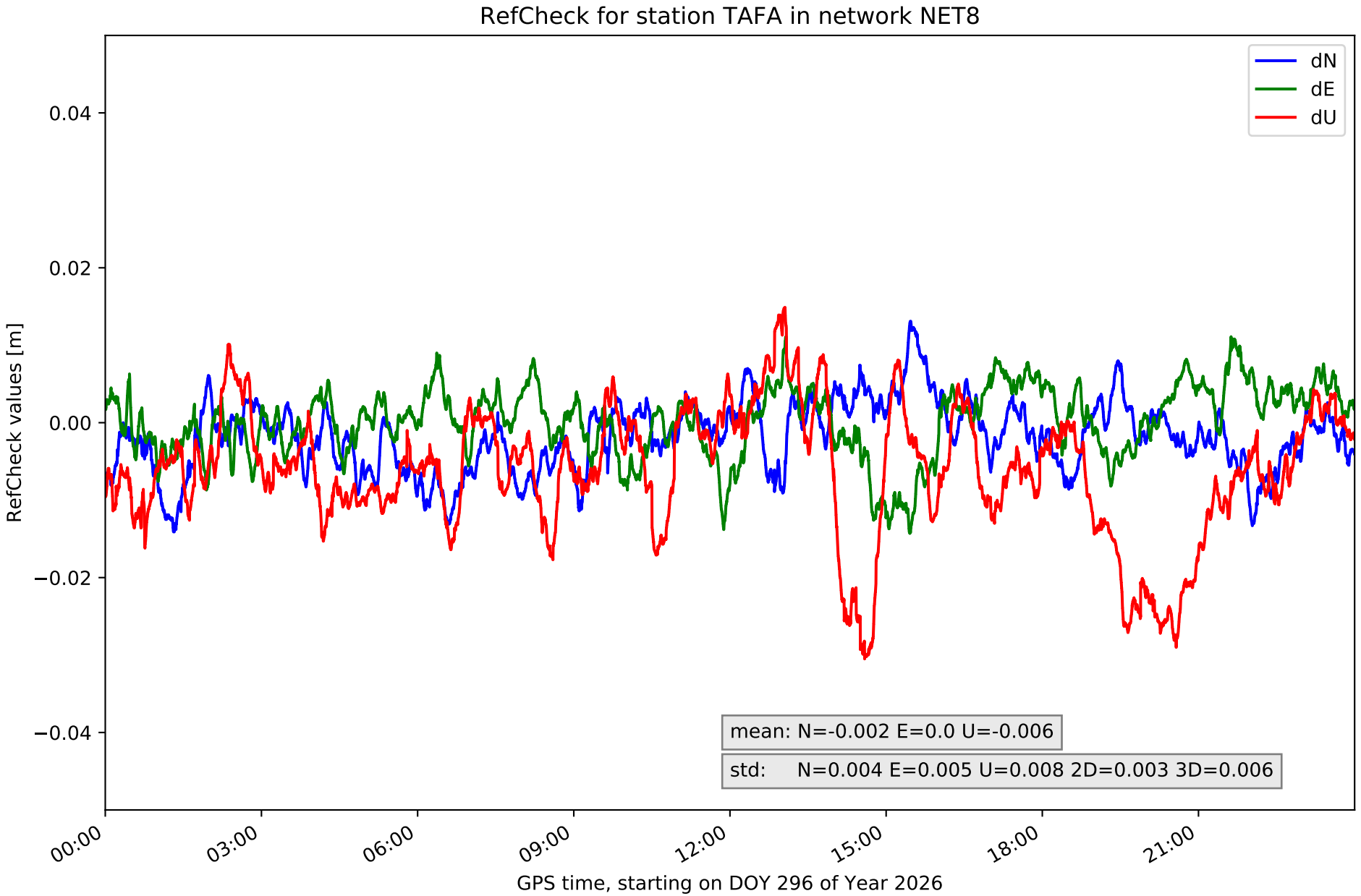

RefCheck for station LEIT in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.0 E=0.002 U=-0.0
std: N=0.003 E=0.004 U=0.007 2D=0.003 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

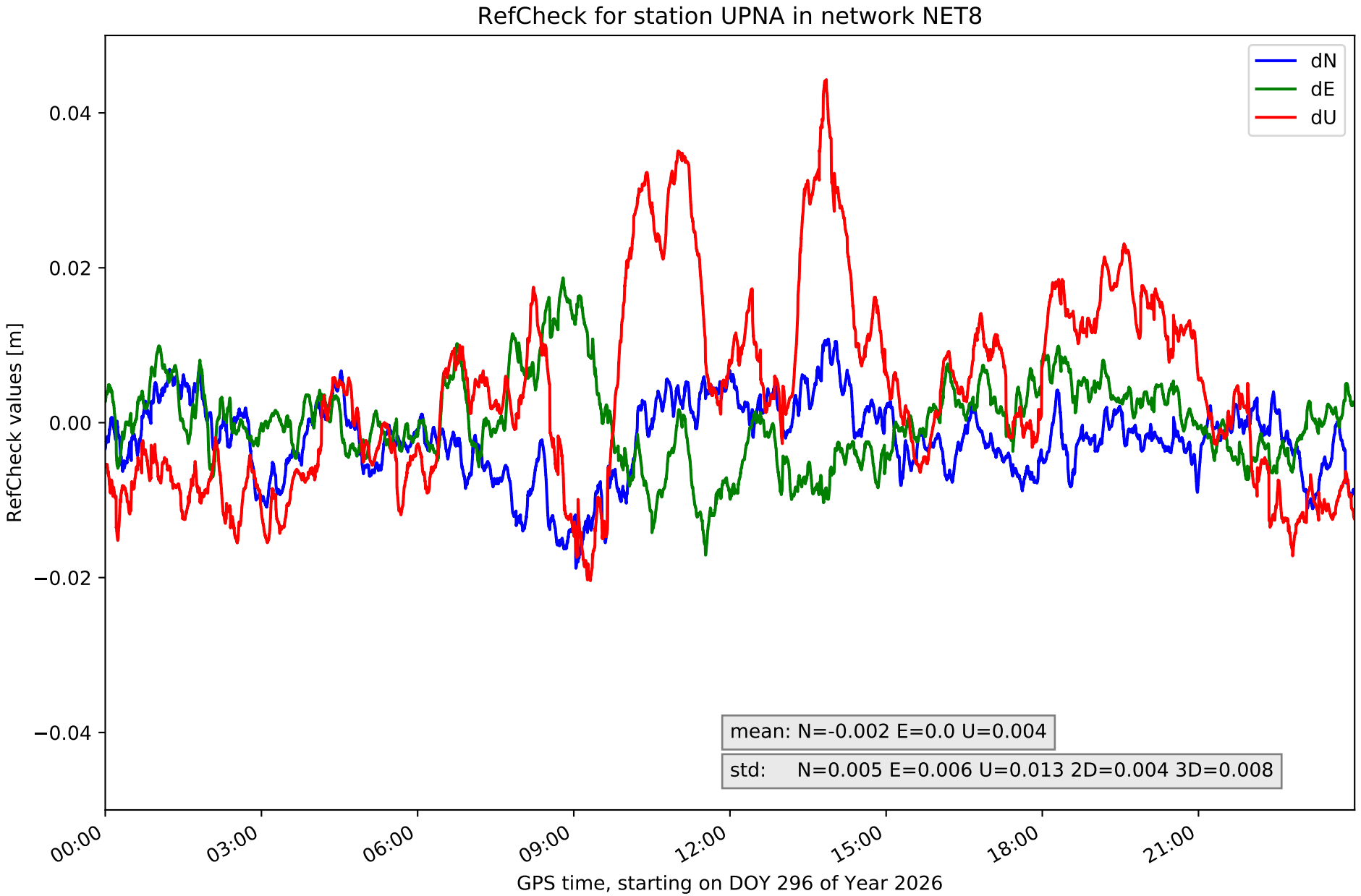

RefCheck for station MIBR in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=-0.002 U=0.015
std: N=0.004 E=0.004 U=0.012 2D=0.004 3D=0.01
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

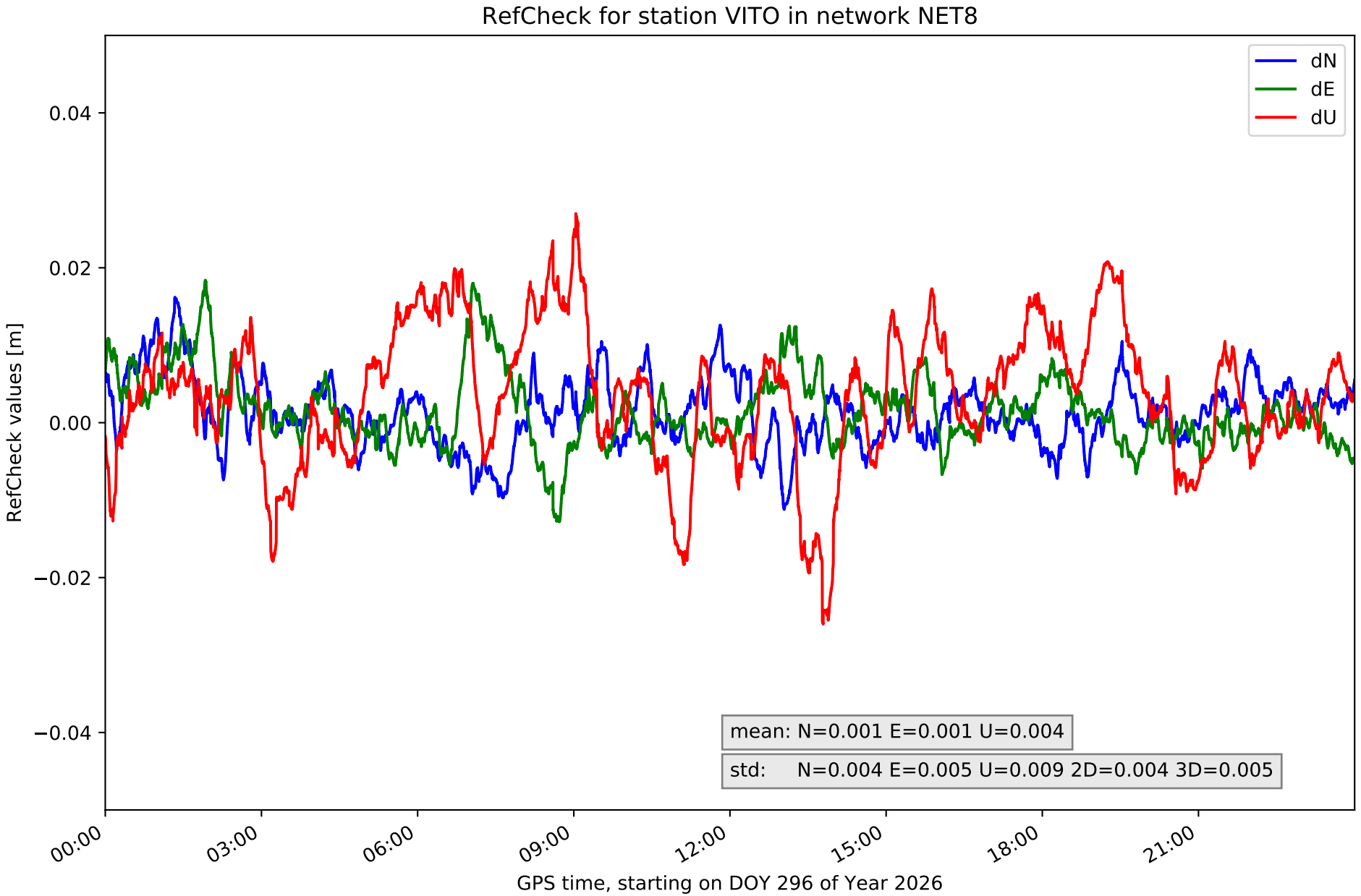

RefCheck for station ORON in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.005 E=0.002 U=0.0
std: N=0.004 E=0.005 U=0.008 2D=0.003 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026


RefCheck for station PASA in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.002 E=-0.002 U=0.001
std: N=0.004 E=0.003 U=0.007 2D=0.003 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026


RefCheck for station SOPU in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.003 E=-0.003 U=-0.001
std: N=0.005 E=0.005 U=0.013 2D=0.003 3D=0.007
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026


RefCheck for station TAFA in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.002 E=0.0 U=-0.006
std: N=0.004 E=0.005 U=0.008 2D=0.003 3D=0.006
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026


RefCheck for station UPNA in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.002 E=0.0 U=0.004
std: N=0.005 E=0.006 U=0.013 2D=0.004 3D=0.008
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026


RefCheck for station VITO in network NET8
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=0.001 U=0.004
std: N=0.004 E=0.005 U=0.009 2D=0.004 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

# RefCheck values for network NET8

| Station | Nmin | Nmax | Nstd | Emin | Emax | Estd | Umin | Umax | Ustd | std2D | std3D | #2D > 0.01 | % 2D > 0.01 | #3D > 0.02 | % 3D > 0.02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALDA | -0.016 | 0.012 | 0.004 | -0.008 | 0.013 | 0.004 | -0.02 | 0.026 | 0.008 | 0.004 | 0.005 | 14440 | 19.3 | 3685 | 4.9 |
| ALSA | **-0.025** | 0.006 | **0.005** | -0.028 | 0.01 | **0.007** | -0.036 | 0.021 | 0.007 | **0.006** | 0.006 | **29420** | **39.4** | 7009 | 9.4 |
| AMUR | -0.011 | **0.02** | **0.005** | -0.017 | 0.015 | 0.005 | -0.029 | 0.025 | 0.01 | 0.004 | 0.006 | 15823 | 21.2 | 7197 | 9.6 |
| ELGE | -0.005 | 0.017 | 0.004 | -0.012 | 0.012 | 0.004 | **-0.046** | 0.021 | 0.01 | 0.004 | 0.006 | 14175 | 19.0 | 2919 | 3.9 |
| ESTE | -0.014 | 0.013 | **0.005** | -0.011 | 0.015 | 0.004 | -0.032 | 0.032 | **0.014** | 0.003 | 0.007 | 8375 | 11.2 | 21273 | 28.5 |
| HOND | -0.014 | 0.016 | 0.004 | -0.015 | 0.01 | 0.004 | -0.023 | 0.024 | 0.008 | 0.003 | 0.005 | 6488 | 8.7 | 2840 | 3.8 |
| KAST | -0.01 | 0.019 | **0.005** | -0.017 | 0.013 | 0.005 | -0.03 | 0.014 | 0.009 | 0.004 | 0.006 | 11385 | 15.2 | 8735 | 11.7 |
| LEIT | -0.008 | 0.012 | 0.003 | -0.011 | 0.014 | 0.004 | -0.018 | 0.017 | 0.007 | 0.003 | 0.004 | 4101 | 5.5 | 188 | 0.3 |
| MIBR | -0.013 | 0.013 | 0.004 | **-0.029** | 0.011 | 0.004 | -0.036 | **0.047** | 0.012 | 0.004 | **0.01** | 5764 | 7.7 | **23336** | **31.2** |
| ORON | -0.017 | 0.005 | 0.004 | -0.013 | 0.015 | 0.005 | -0.019 | 0.026 | 0.008 | 0.003 | 0.005 | 16626 | 22.2 | 3678 | 4.9 |
| PASA | -0.01 | 0.014 | 0.004 | -0.014 | 0.007 | 0.003 | -0.02 | 0.025 | 0.007 | 0.003 | 0.004 | 4368 | 5.8 | 1403 | 1.9 |
| SOPU | -0.015 | 0.014 | **0.005** | -0.016 | 0.009 | 0.005 | -0.038 | 0.031 | 0.013 | 0.003 | 0.007 | 14431 | 19.3 | 12108 | 16.2 |
| TAFA | -0.014 | 0.013 | 0.004 | -0.014 | 0.011 | 0.005 | -0.03 | 0.015 | 0.008 | 0.003 | 0.006 | 9106 | 12.2 | 6768 | 9.1 |
| UPNA | -0.019 | 0.011 | **0.005** | -0.017 | **0.019** | 0.006 | -0.02 | 0.044 | 0.013 | 0.004 | 0.008 | 10842 | 14.5 | 12304 | 16.5 |
| VITO | -0.011 | 0.016 | 0.004 | -0.013 | 0.018 | 0.005 | -0.026 | 0.027 | 0.009 | 0.004 | 0.005 | 9297 | 12.4 | 3538 | 4.7 |
| **Mean** | **-0.013** | **0.013** | **0.004** | **-0.016** | **0.013** | **0.005** | **-0.028** | **0.026** | **0.01** | **0.004** | **0.006** | **11642.7** | **15.6** | **7798.7** | **10.4** |
| **Min/Max** | **-0.025** | **0.02** | **0.005** | **-0.029** | **0.019** | **0.007** | **-0.046** | **0.047** | **0.014** | **0.006** | **0.01** | **29420** | **39.4** | **23336** | **31.2** |

# fixing statistic for network NET8

| fixing percentage of | all GNSS | G | R | E | C |
|---|---|---|---|---|---|
| using threshold 0.3 | 93.9 | 93.9 | 93.8 | 95.2 | 92.8 |
| considering satellites with dual-frequency fixed | 91.2 | 91.3 | 91.3 | 93.1 | 89.3 |
| considering all signals separately | 90.9 | 91.3 | 91.3 | 93.1 | 87.3 |