# summary for network NET3

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

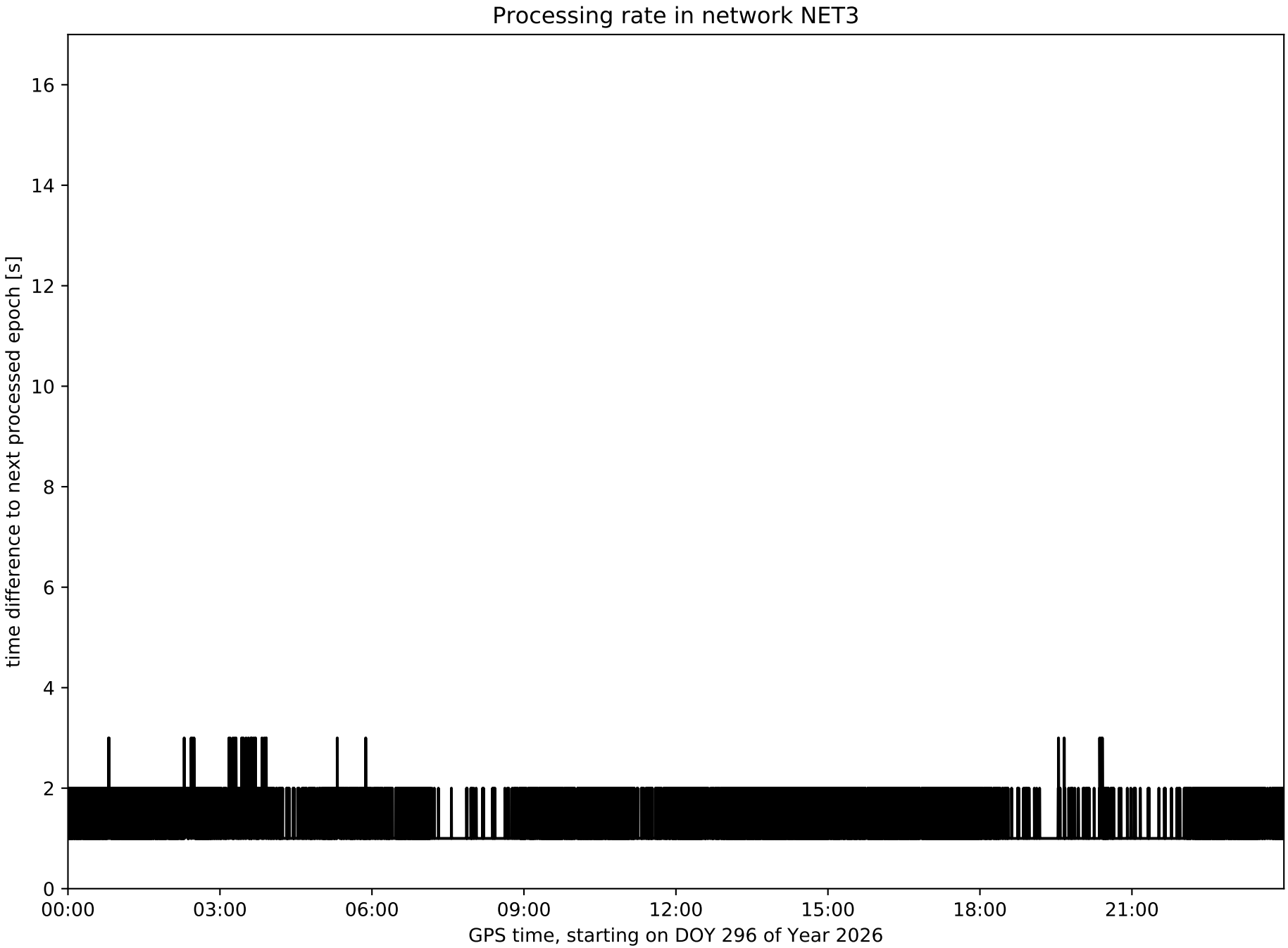
average update rate (durations larger than 15 seconds considered as observation gap): 1.1 seconds

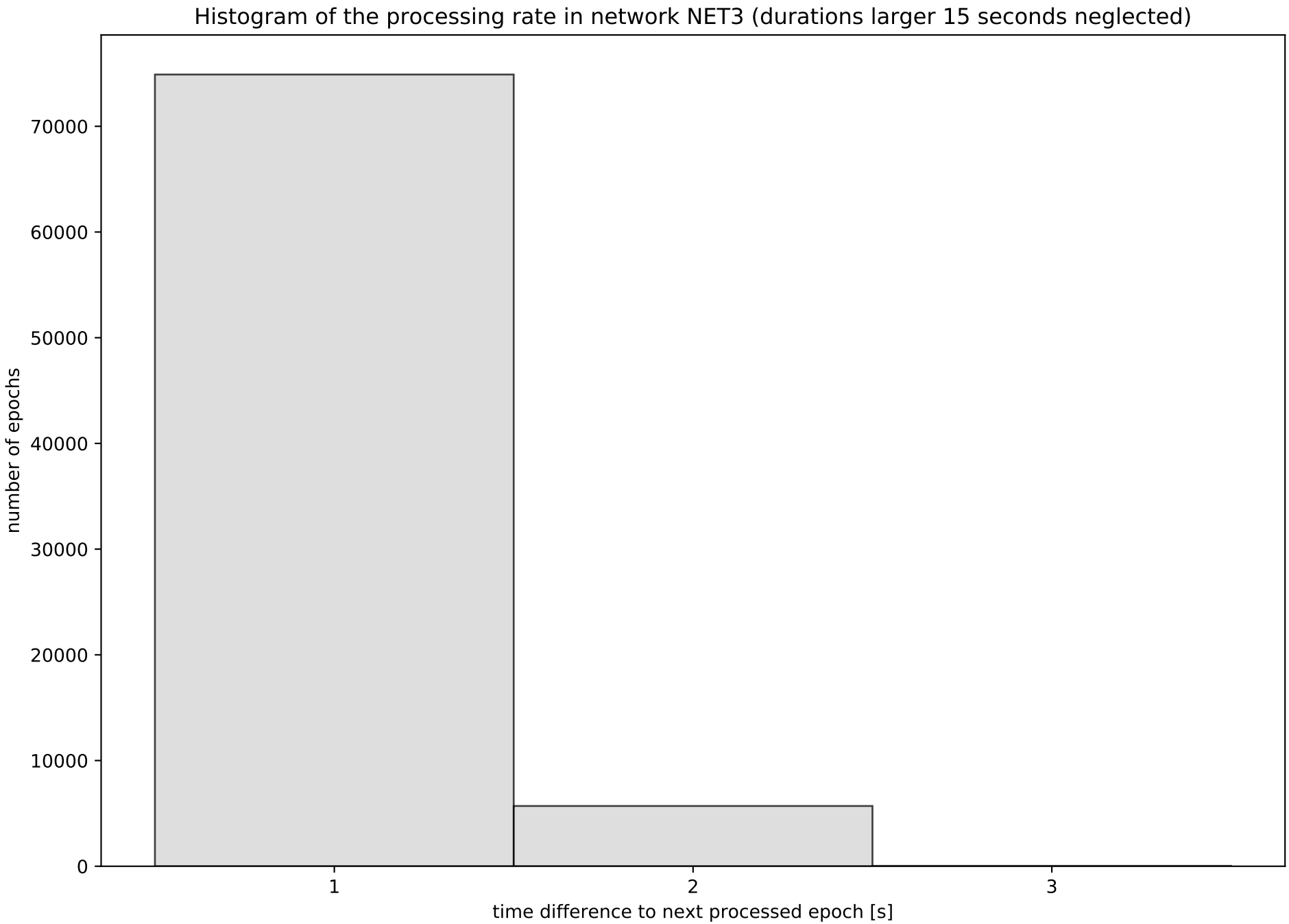
average fixing percentage with threshold set to 0.3: 95.2 percent

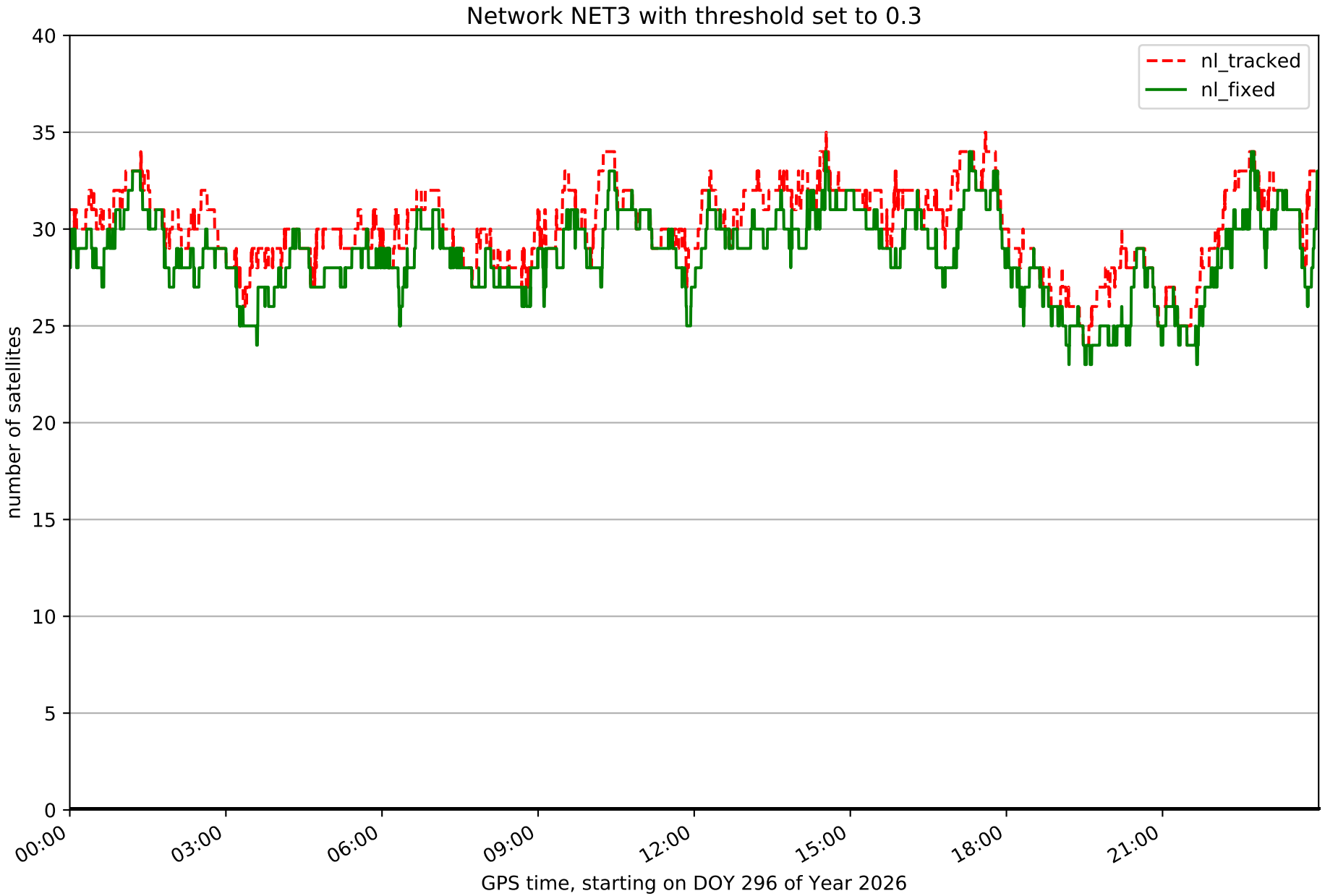
stations available: 13 of 13

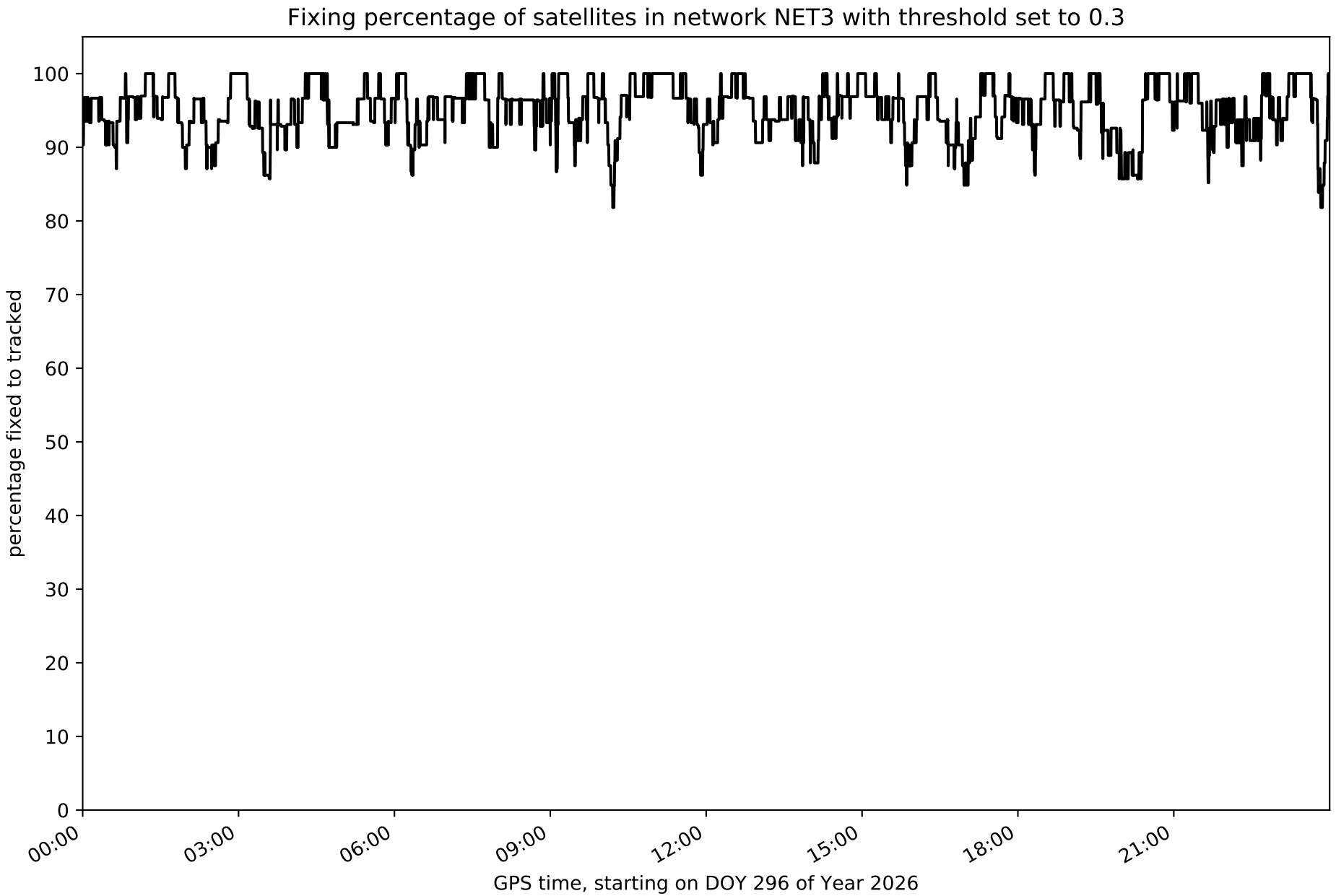
station information:

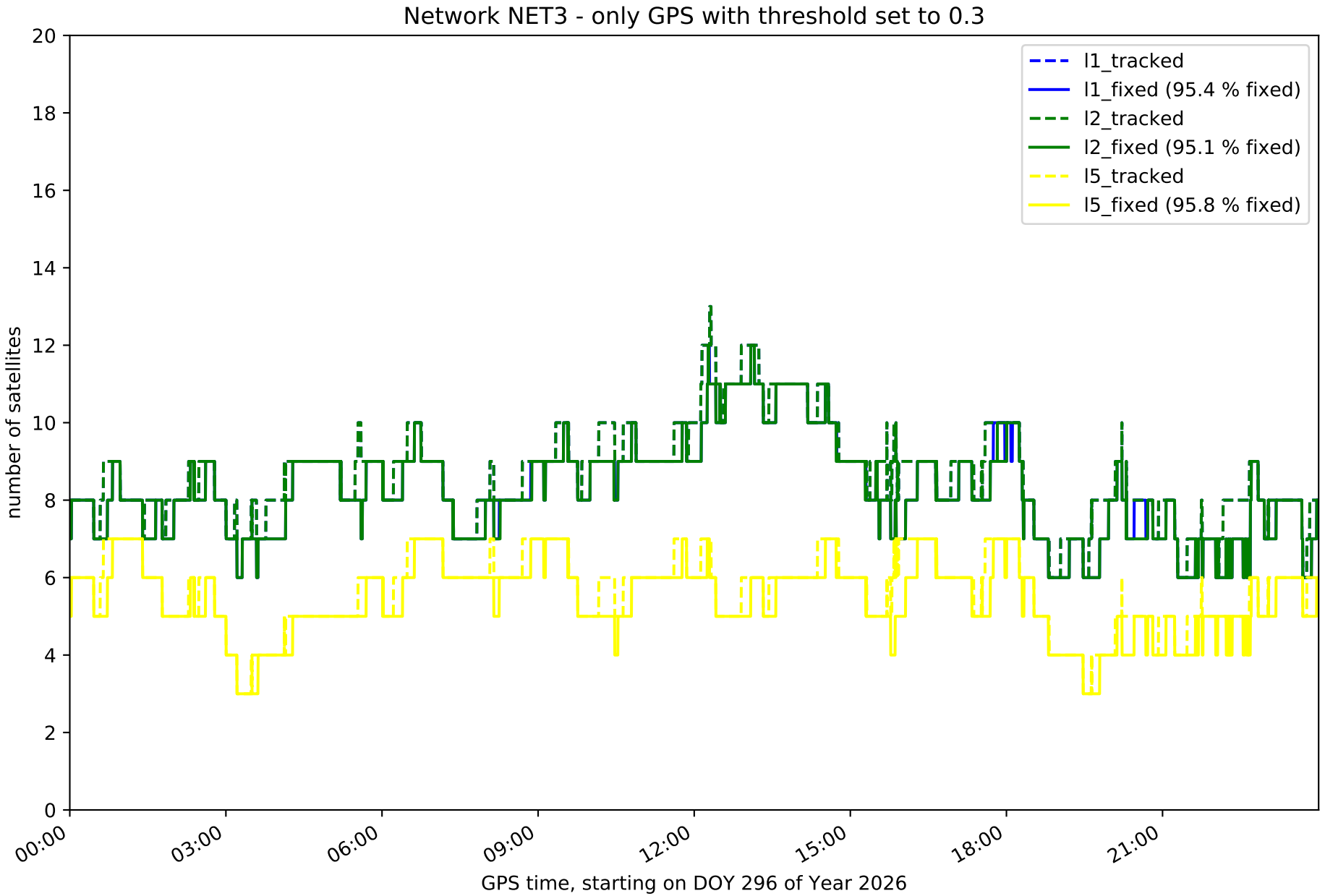
| | | | |
|---|---|---|---|
| station ALBA: | antenna: LEIAR25.R3 LEIT | receiver: LEICA GR50 | height: 754.656 |
| station ALMO: | antenna: LEIAR25.R4 LEIT | receiver: LEICA GR25 | height: 743.42 |
| station CLTR: | antenna: LEIAR20 LEIM | receiver: LEICA GR10 | height: 785.649 |
| station COBA: | antenna: LEIAR20 LEIM | receiver: LEICA GR50 | height: 202.143 |
| station CUEN: | antenna: LEIAR20 LEIM | receiver: LEICA GR50 | height: 998.118 |
| station JUMA: | antenna: LEIAR20 LEIM | receiver: LEICA GR30 | height: 610.249 |
| station MOTA: | antenna: LEIAR25.R4 LEIT | receiver: LEICA GR50 | height: 779.82 |
| station MOTI: | antenna: LEIAR20 LEIM | receiver: LEICA GR50 | height: 887.16 |
| station MRAT: | antenna: LEIAR20 LEIM | receiver: LEICA GR30 | height: 1227.58 |
| station SONS: | antenna: LEIAR20 LEIM | receiver: LEICA GR50 | height: 811.983 |
| station UTI1: | antenna: TRM159900.00 SCIS | receiver: LEICA GR50 | height: 798.706 |
| station VIAR: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 746.559 |
| station VILH: | antenna: TRM159900.00 SCIS | receiver: TRIMBLE NETR9 | height: 1022.771 |

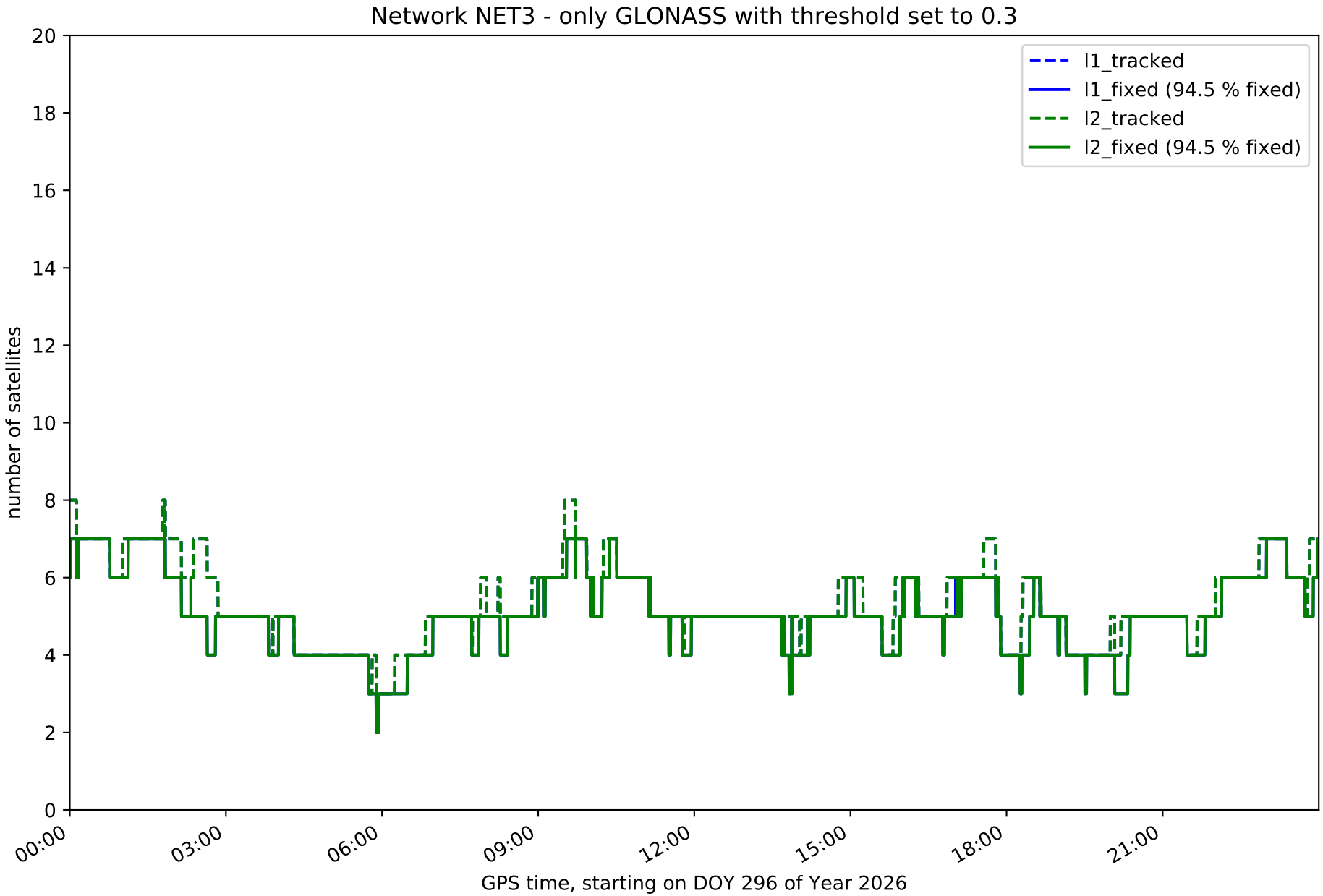

Processing rate in network NET3
time difference to next processed epoch [s]
0
2
4
6
8
10
12
14
16
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

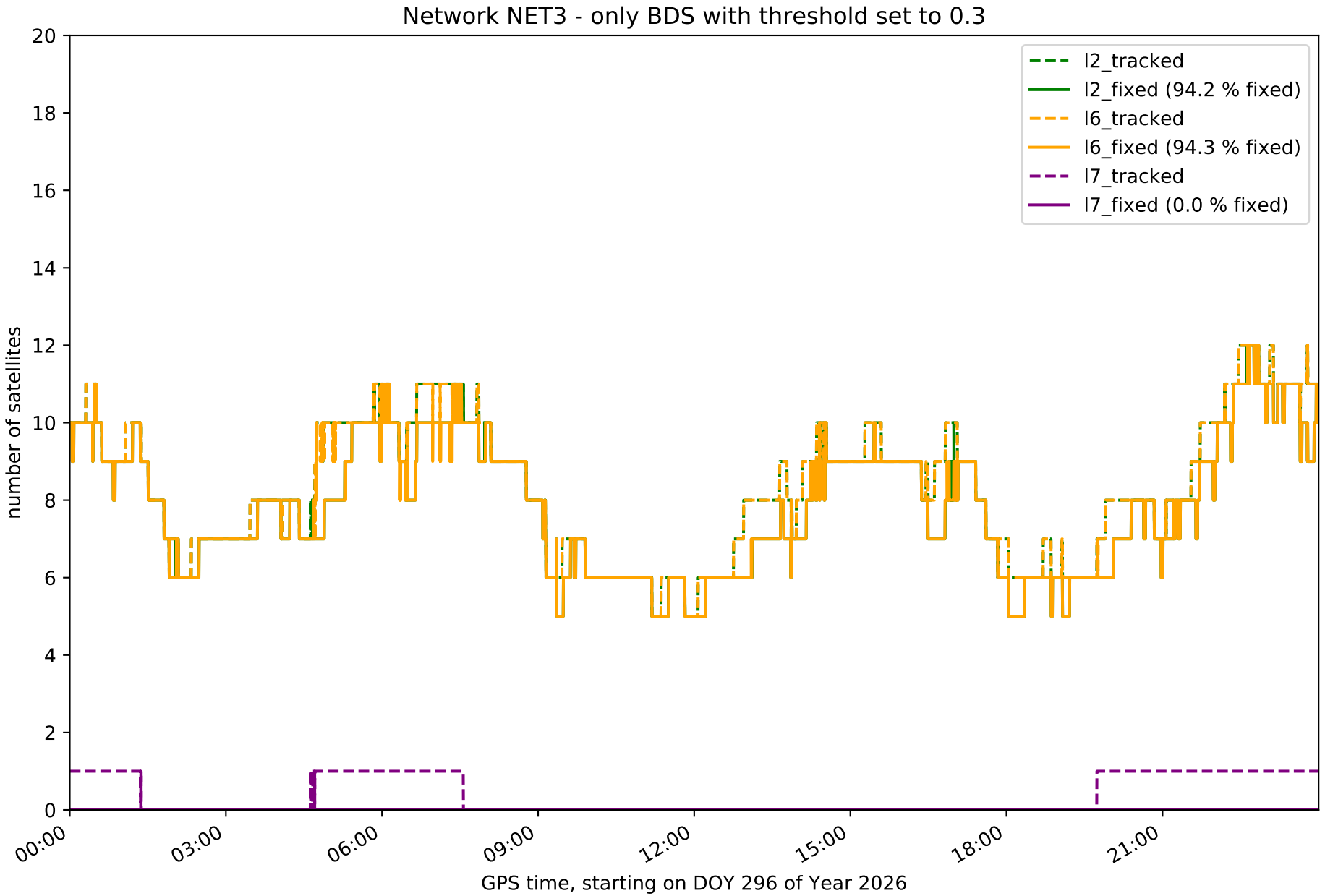

Histogram of the processing rate in network NET3 (durations larger 15 seconds neglected)
number of epochs
70000
60000
50000
40000
30000
20000
10000
0
1
2
3
time difference to next processed epoch [s]

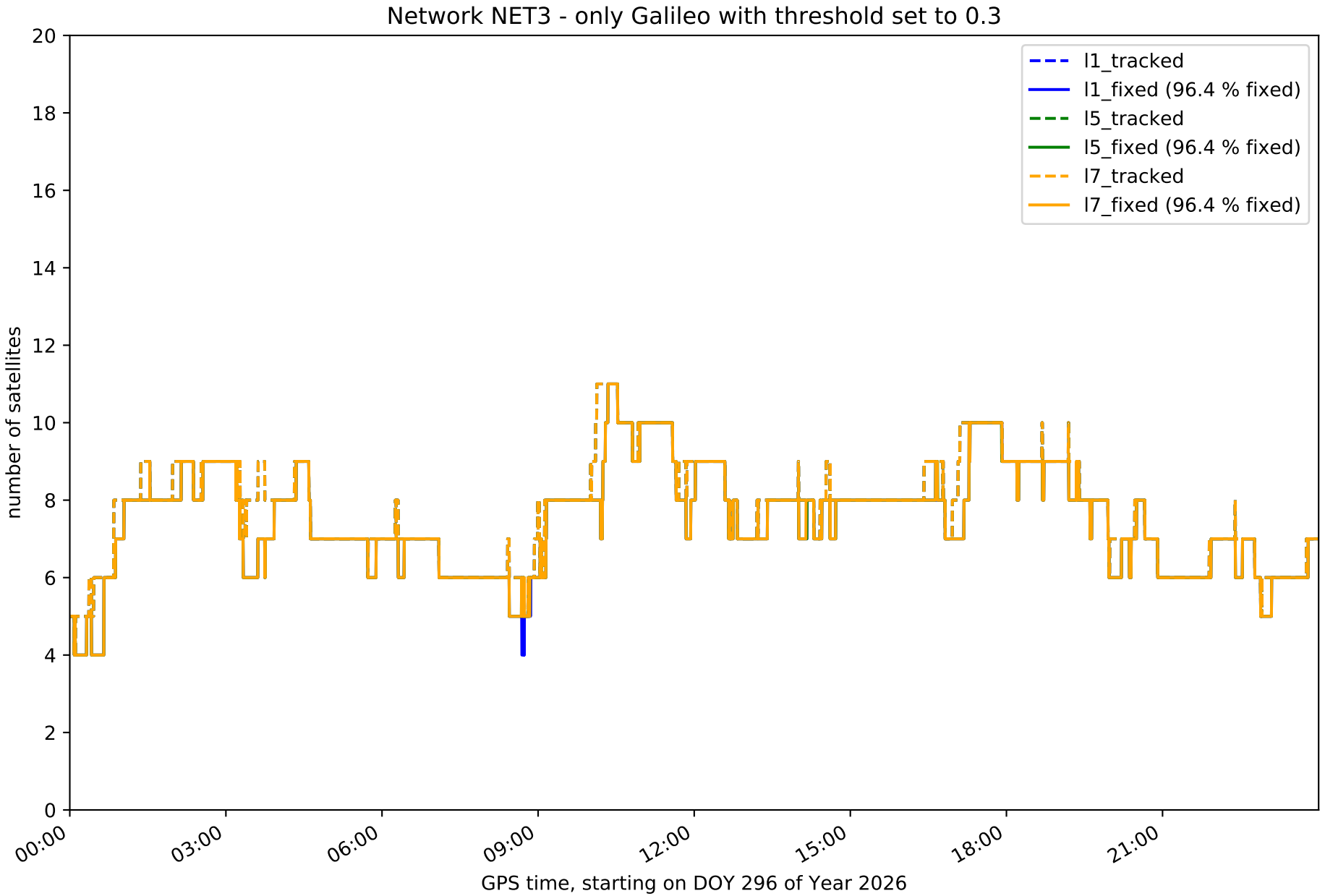

Network NET3 with threshold set to 0.3
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
40
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

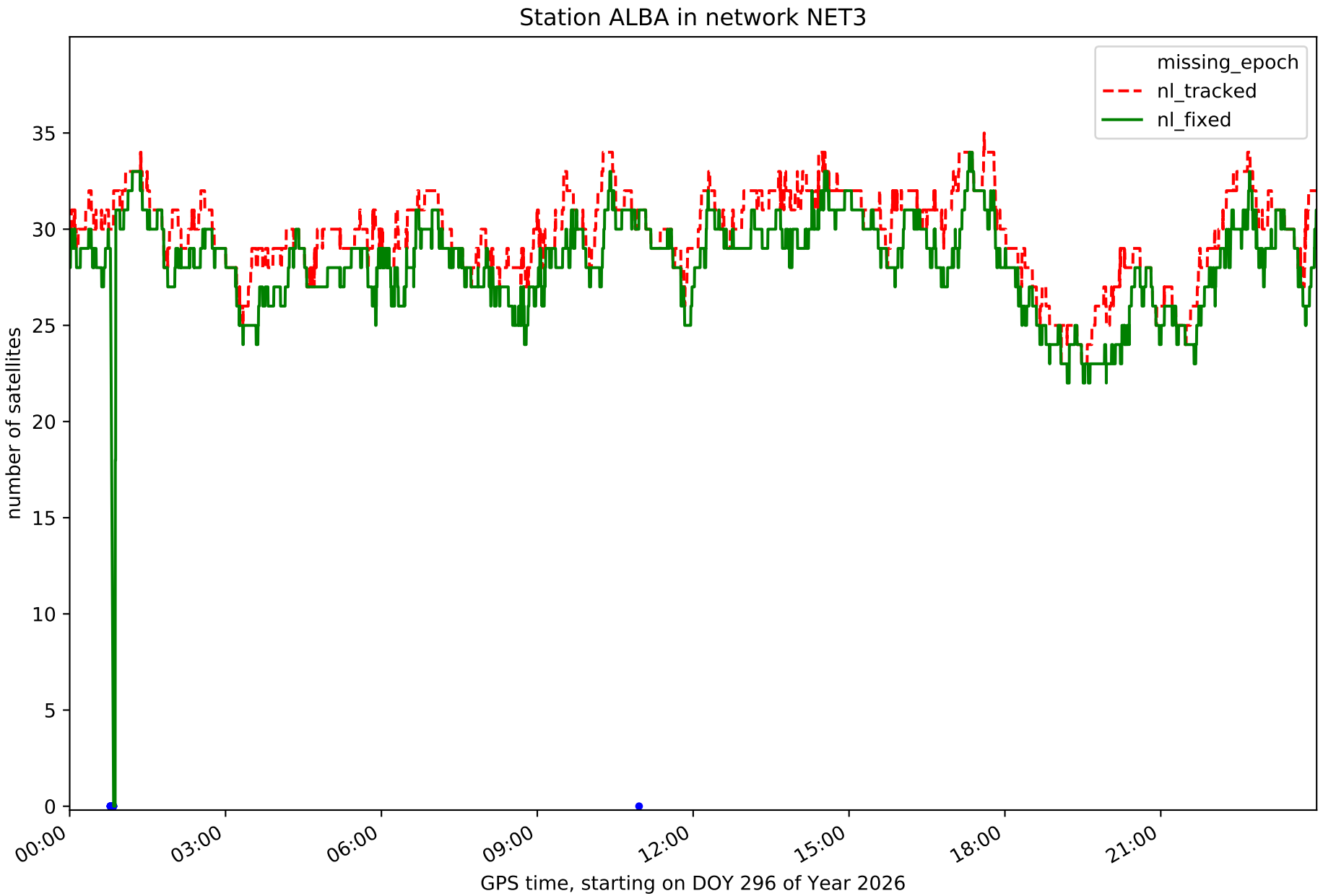

Fixing percentage of satellites in network NET3 with threshold set to 0.3
percentage fixed to tracked
100
90
80
70
60
50
40
30
20
10
0
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

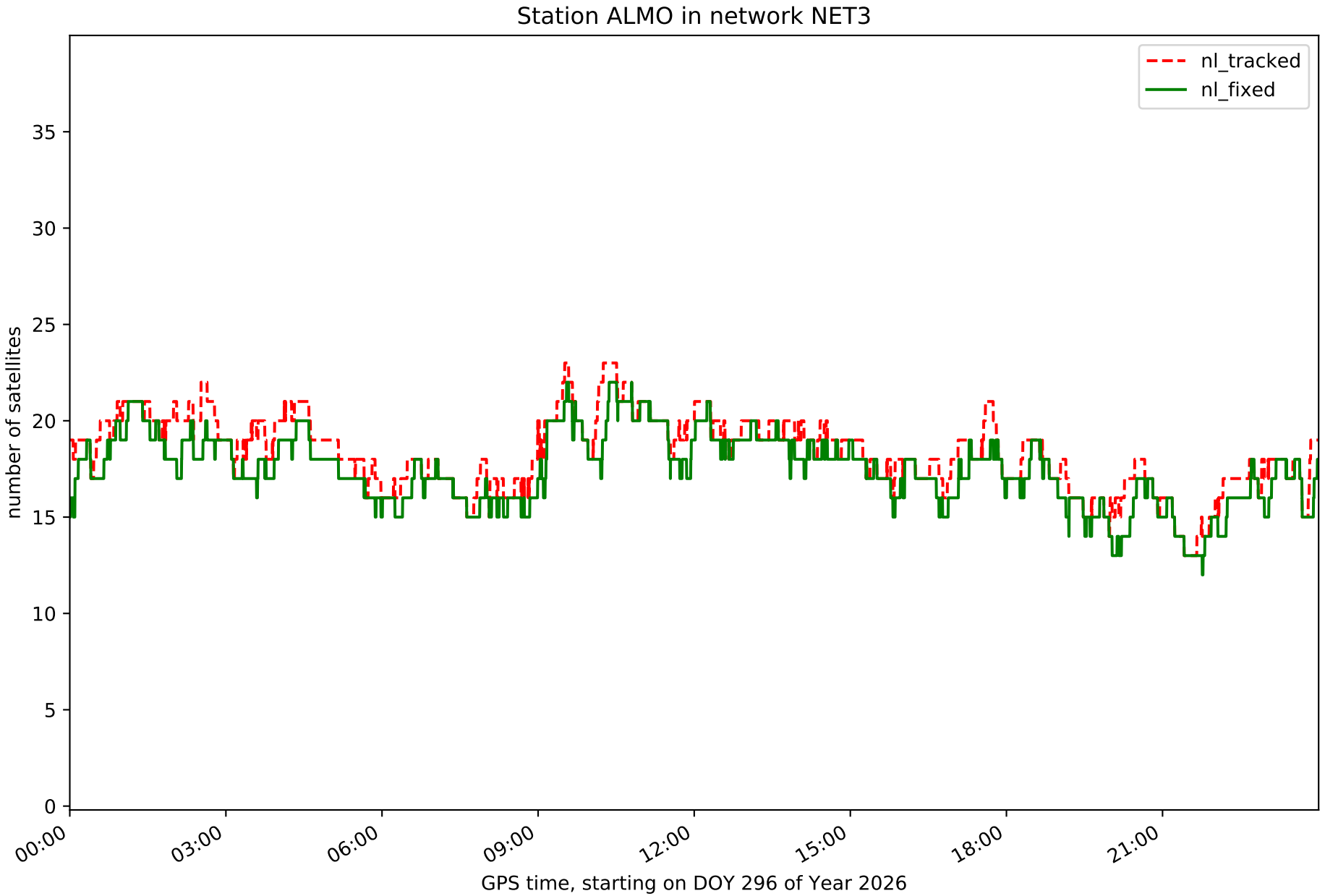

Network NET3 - only GPS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 296 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
l1_tracked
l1_fixed (95.4 % fixed)
l2_tracked
l2_fixed (95.1 % fixed)
l5_tracked
l5_fixed (95.8 % fixed)

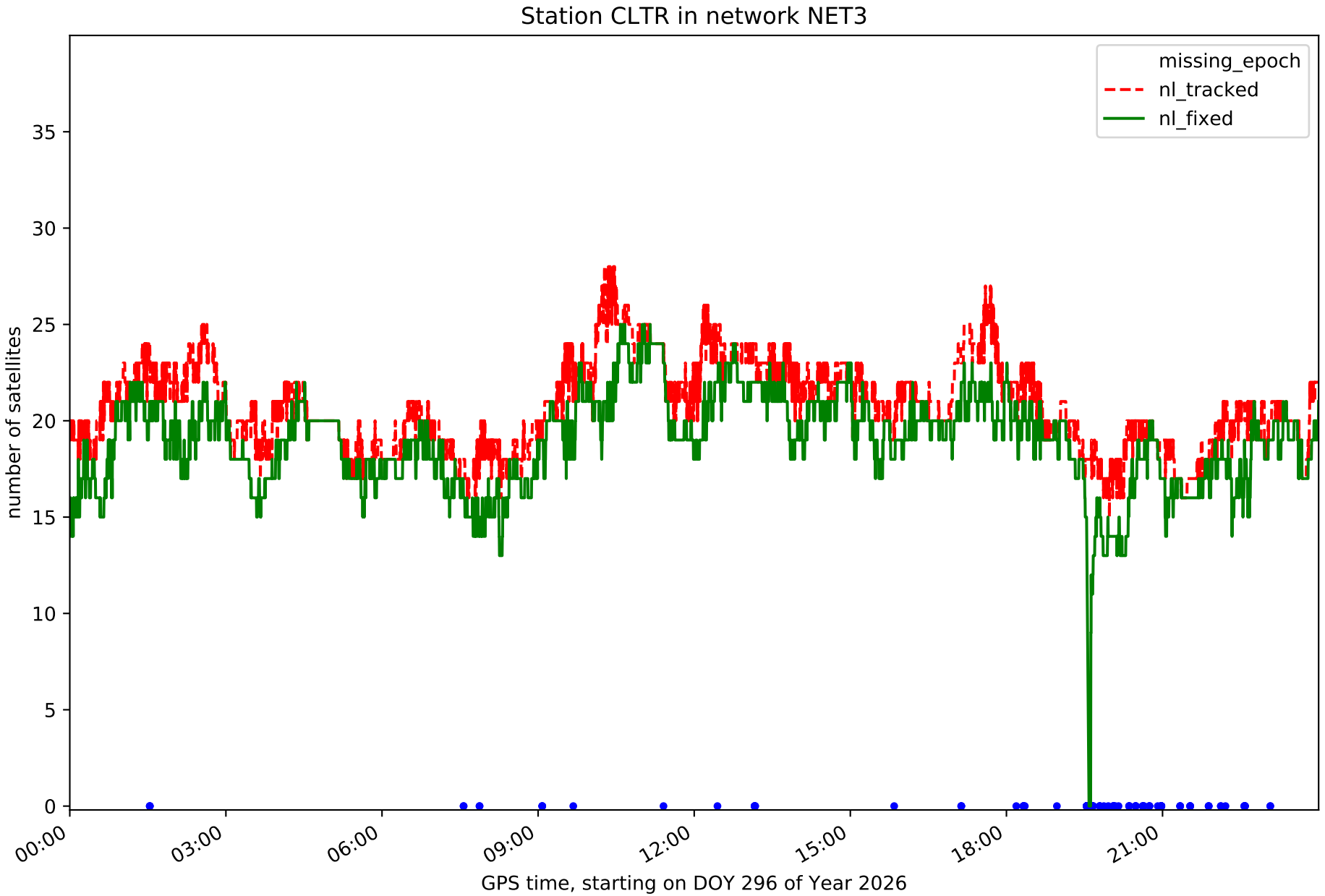

Network NET3 - only GLONASS with threshold set to 0.3
l1_tracked
l1_fixed (94.5 % fixed)
l2_tracked
l2_fixed (94.5 % fixed)
number of satellites
0
2
4
6
8
10
12
14
16
18
20
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

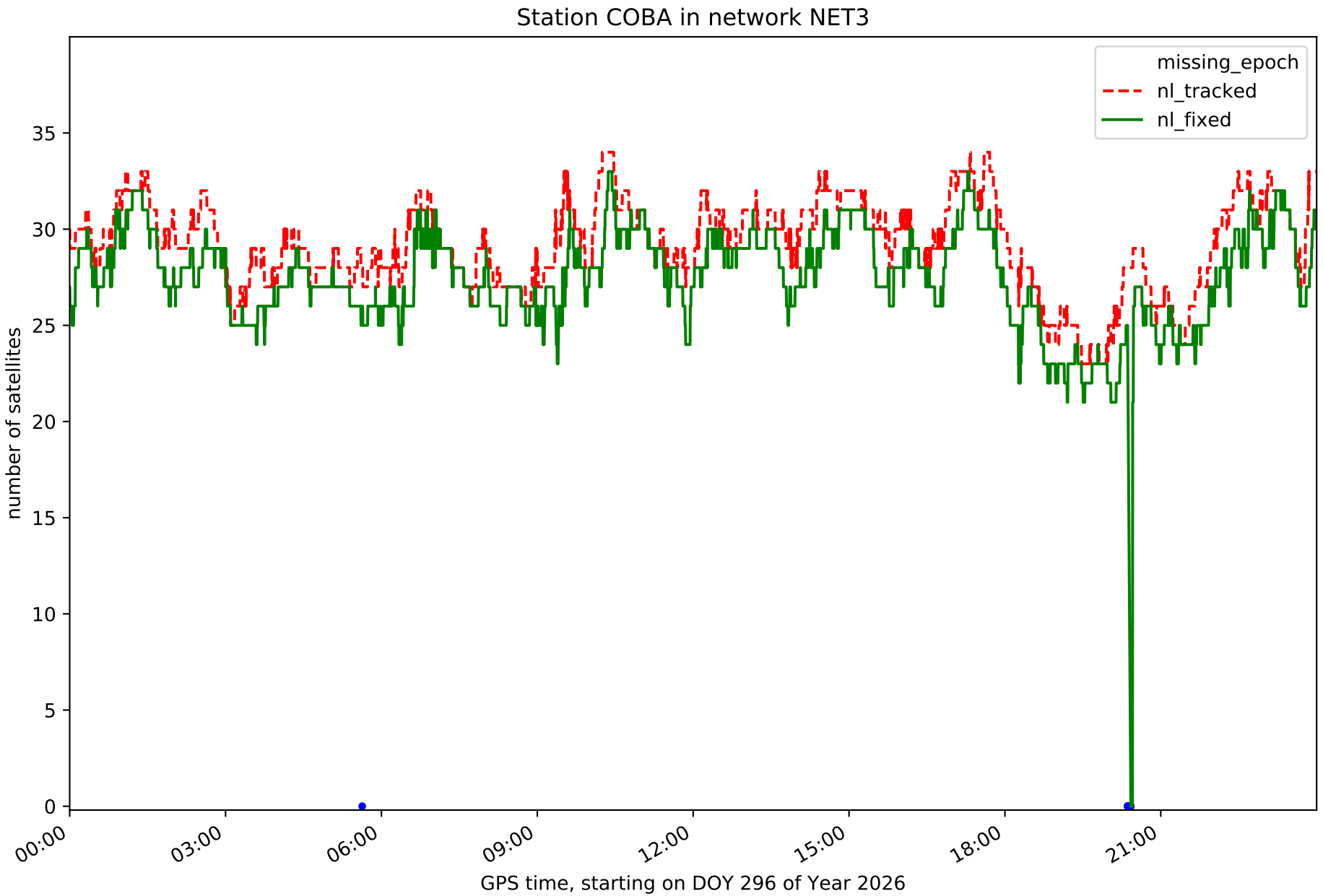

Network NET3 - only BDS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 296 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
I2_tracked
I2_fixed (94.2 % fixed)
I6_tracked
I6_fixed (94.3 % fixed)
I7_tracked
I7_fixed (0.0 % fixed)

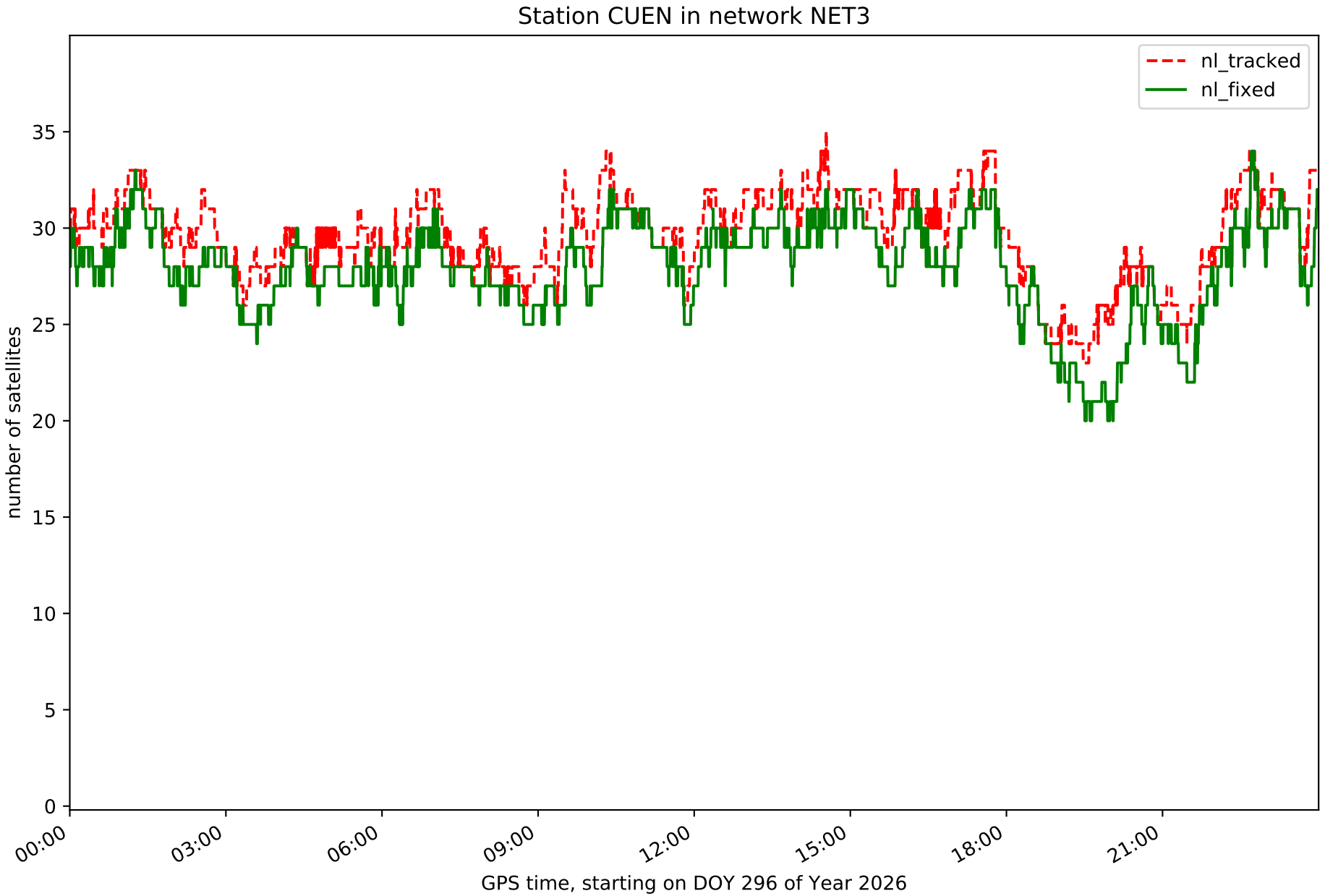

Network NET3 - only Galileo with threshold set to 0.3
number of satellites
GPS time, starting on DOY 296 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
l1_tracked
l1_fixed (96.4 % fixed)
l5_tracked
l5_fixed (96.4 % fixed)
l7_tracked
l7_fixed (96.4 % fixed)

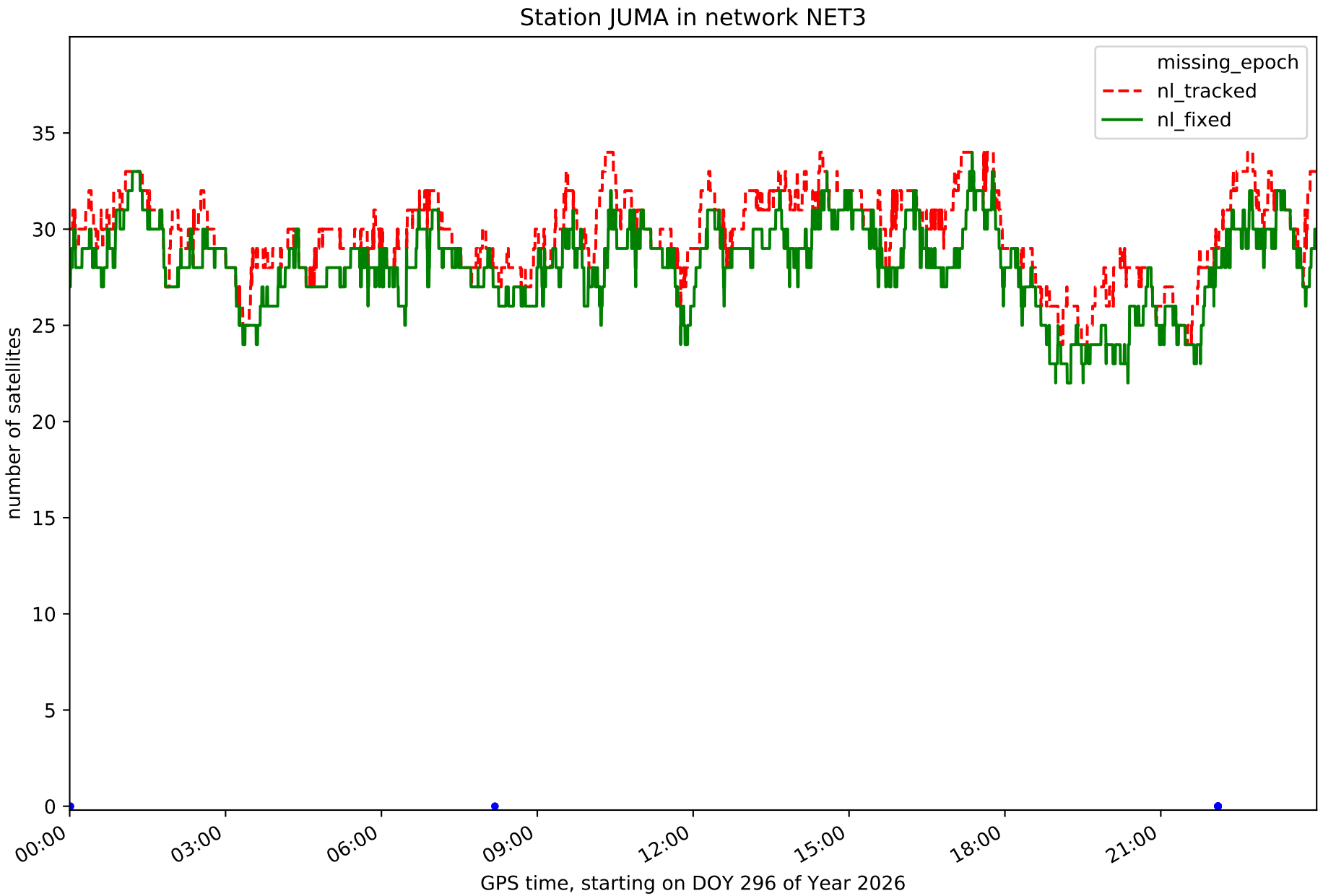

Station ALBA in network NET3
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

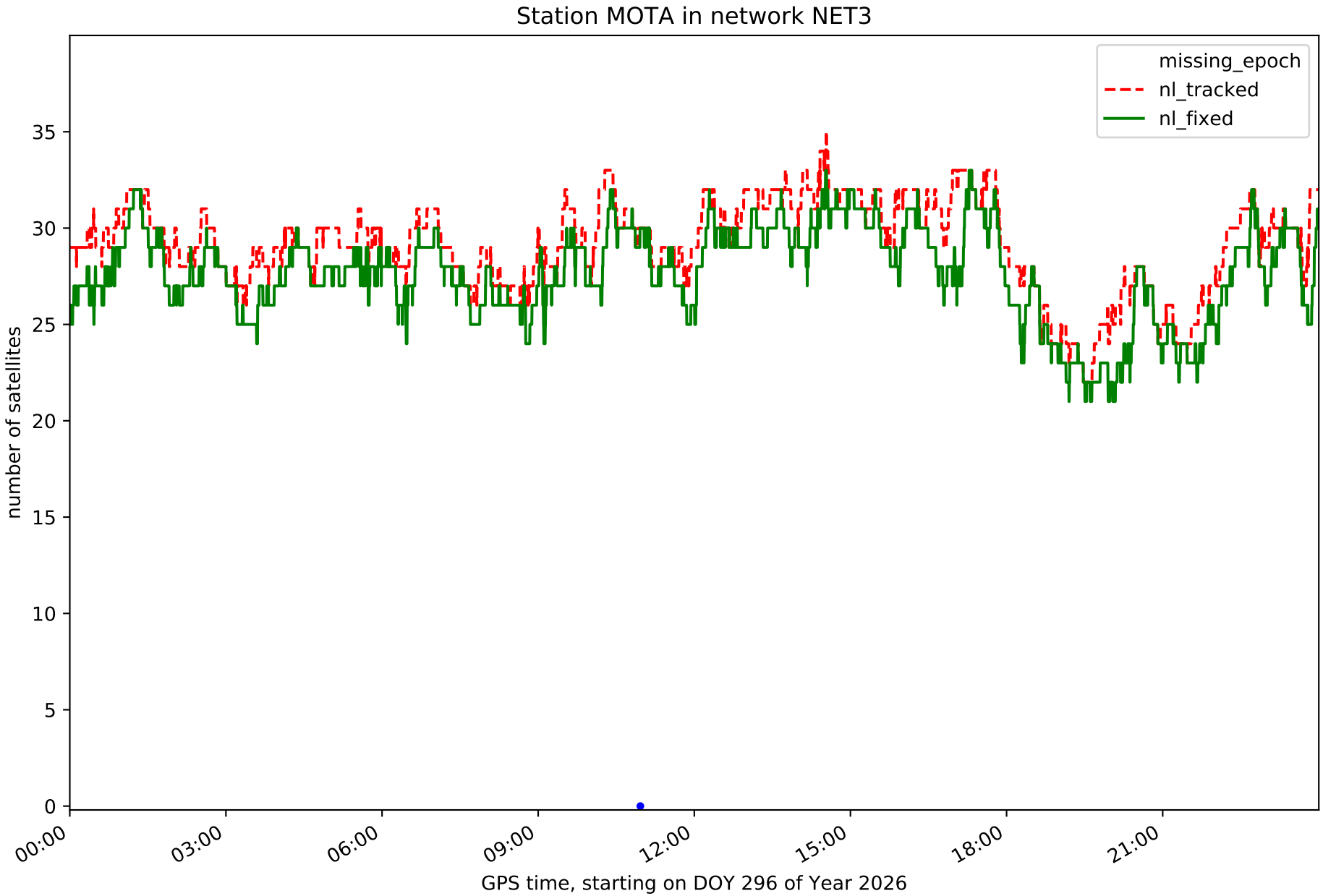

Station ALMO in network NET3
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

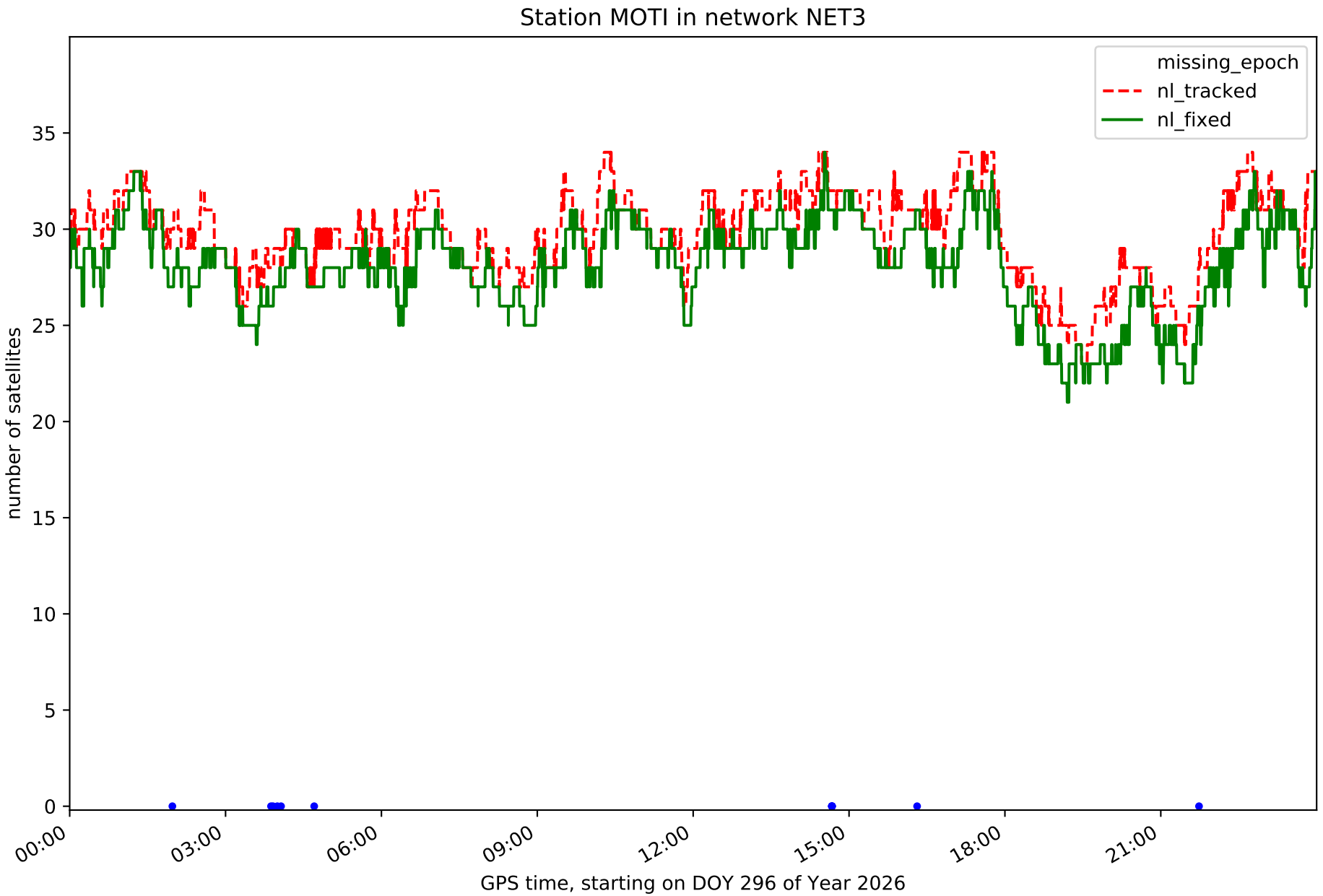

Station CLTR in network NET3
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

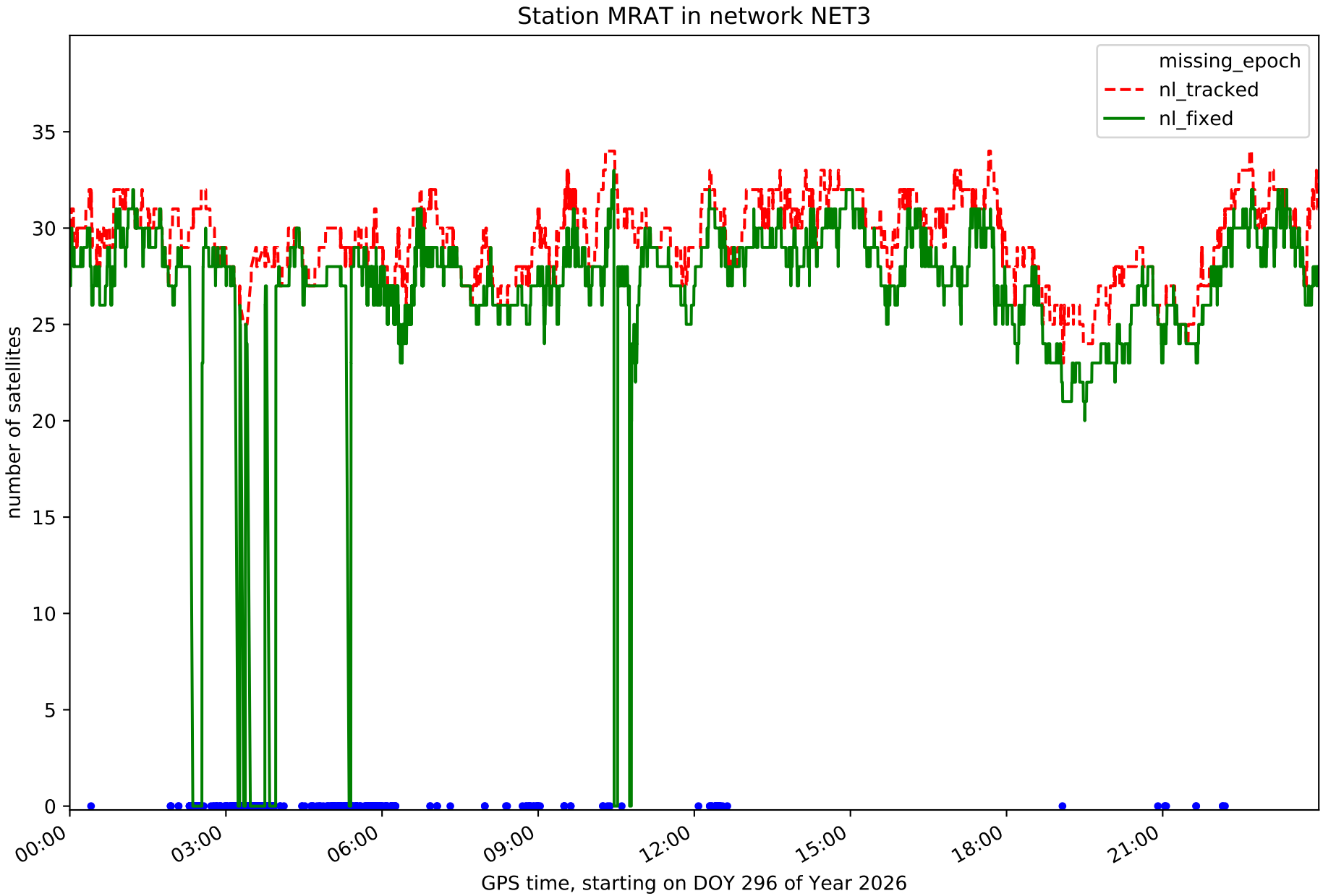

Station COBA in network NET3
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

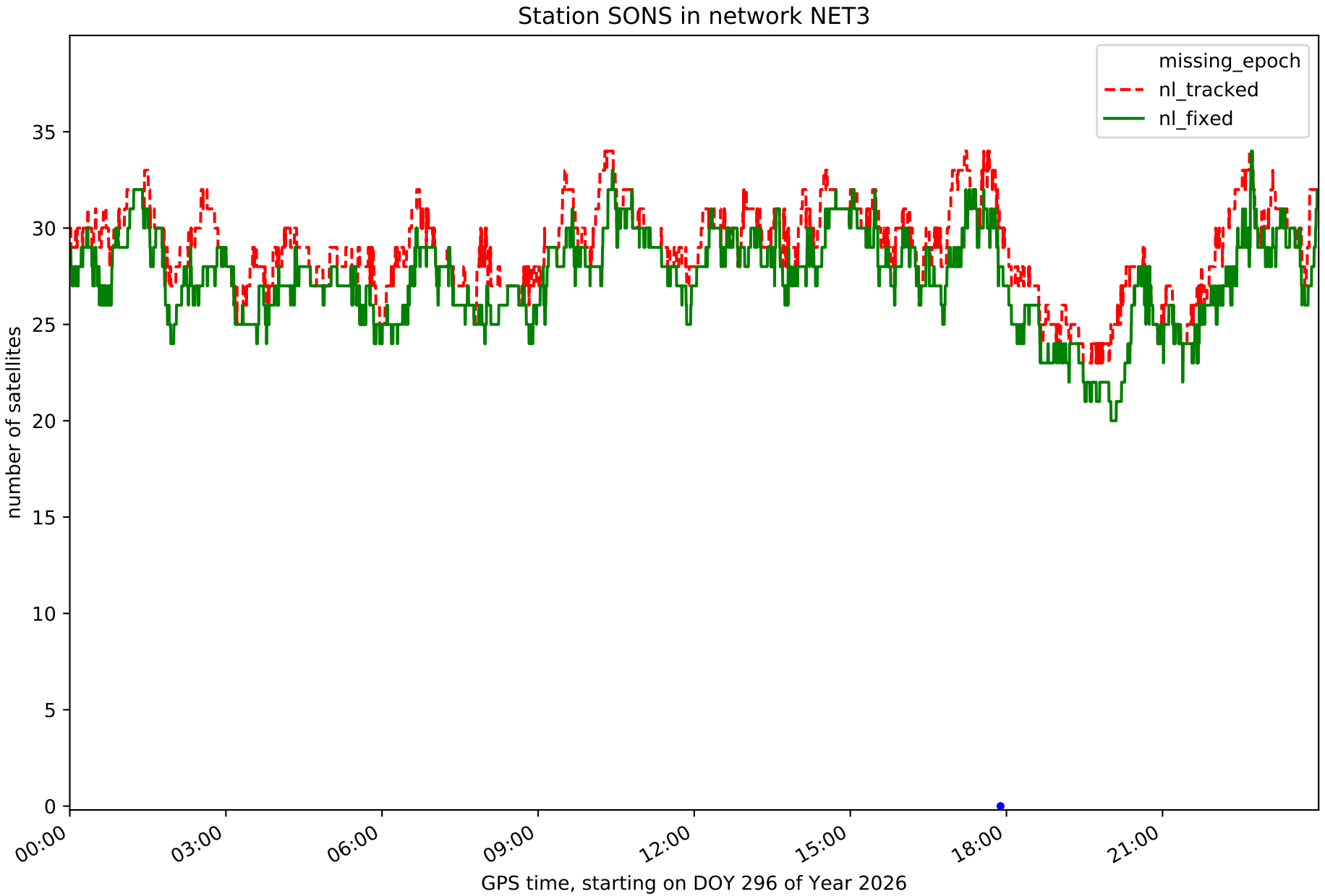

Station CUEN in network NET3
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

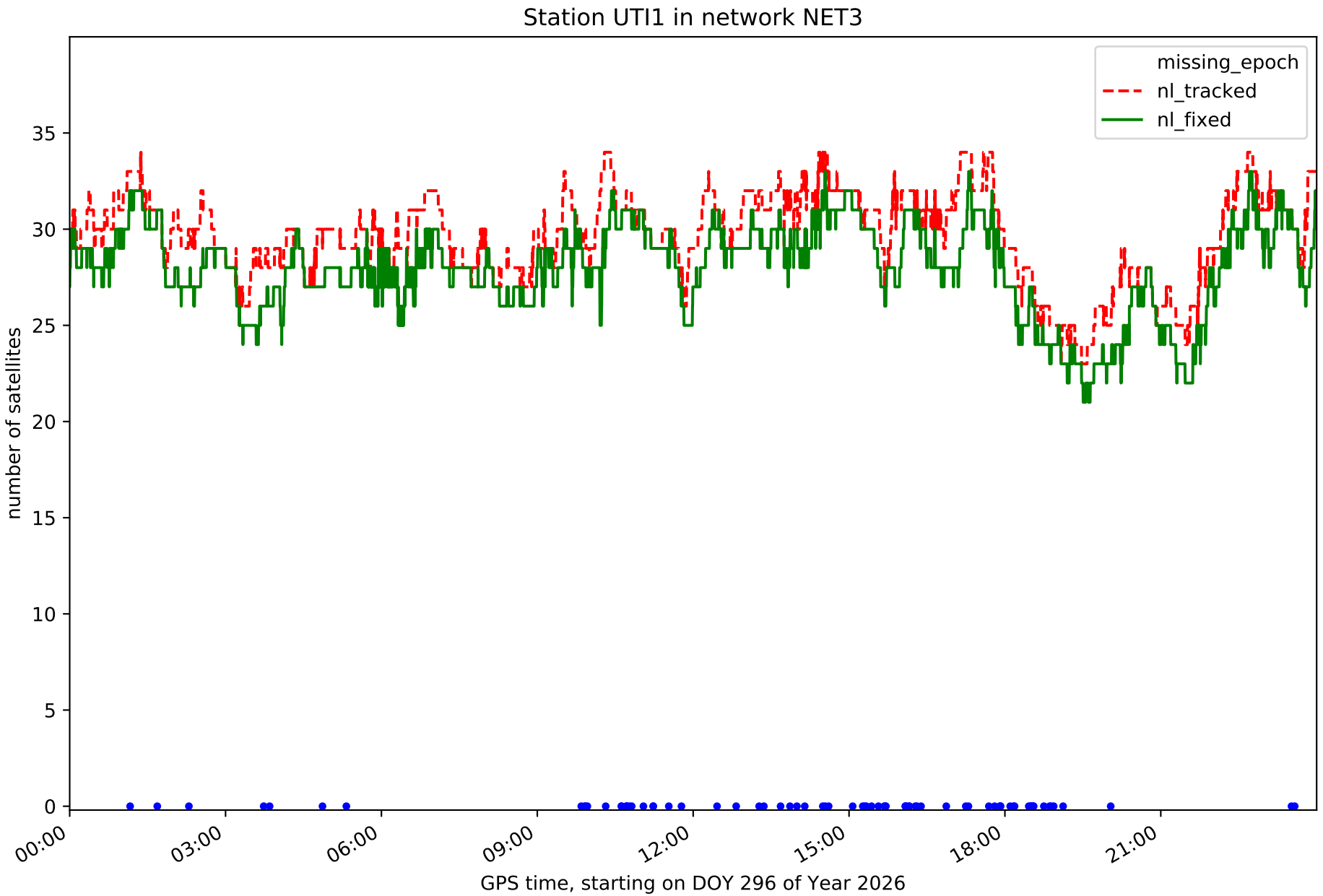

Station JUMA in network NET3
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

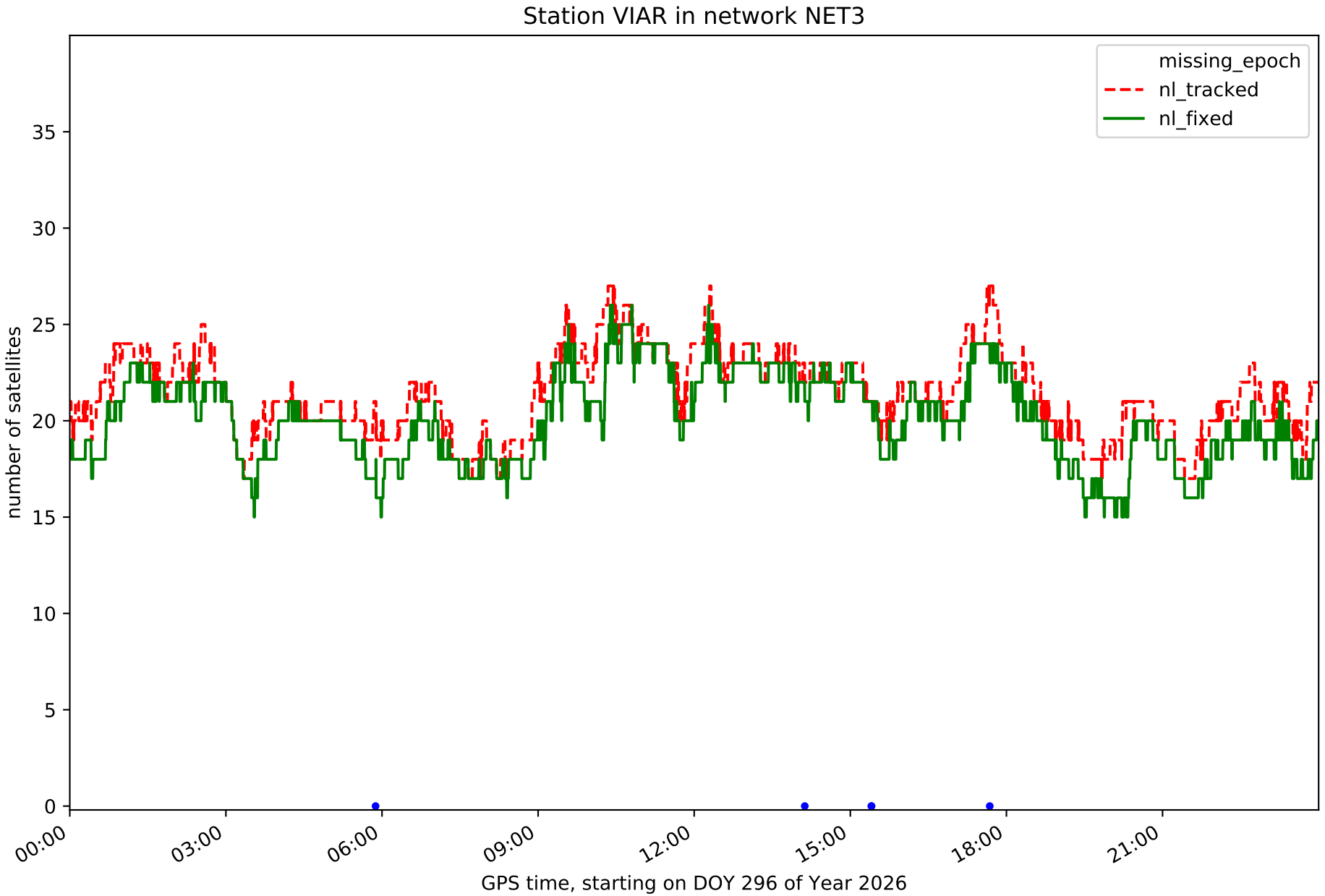

Station MOTA in network NET3
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

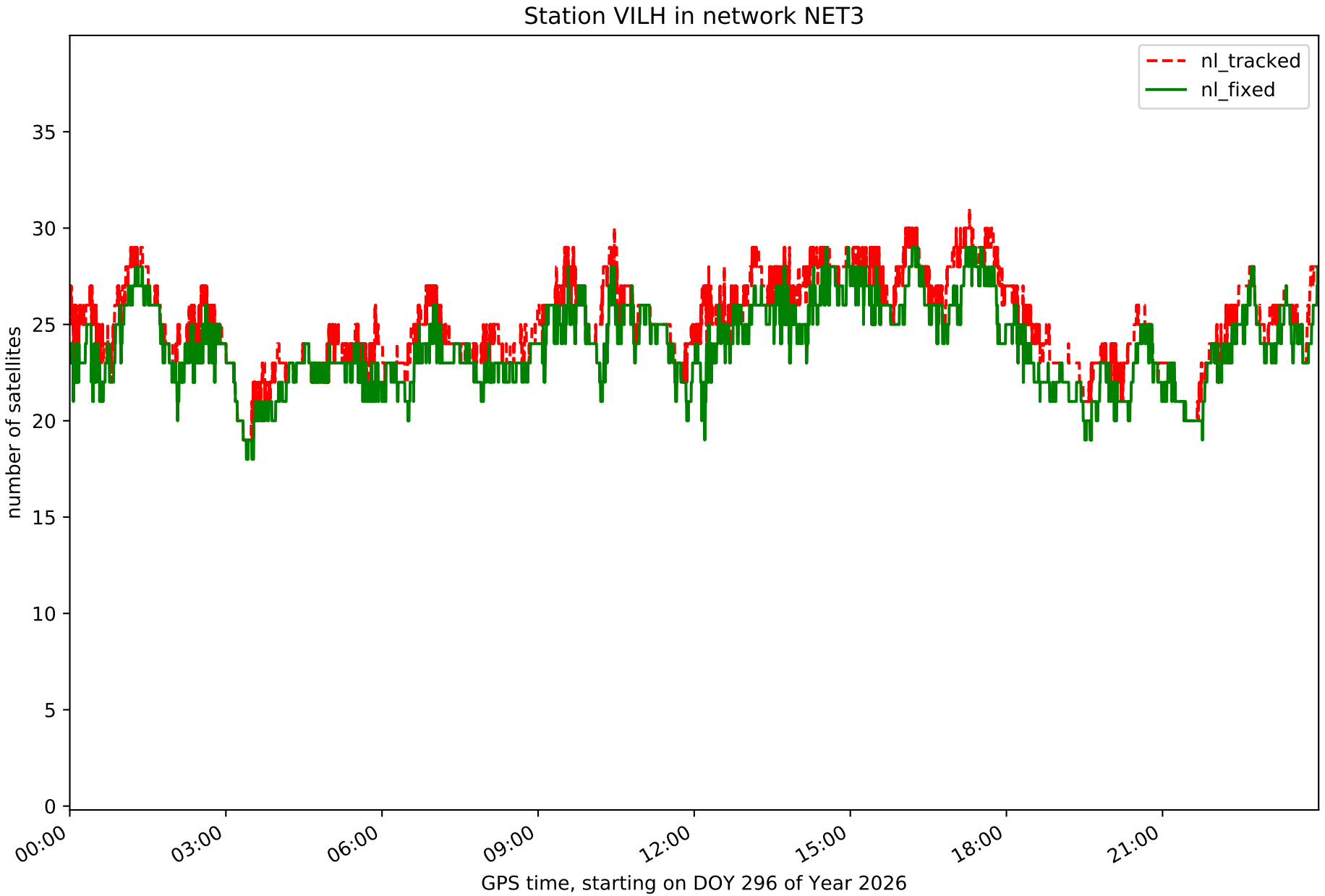

Station MOTI in network NET3
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

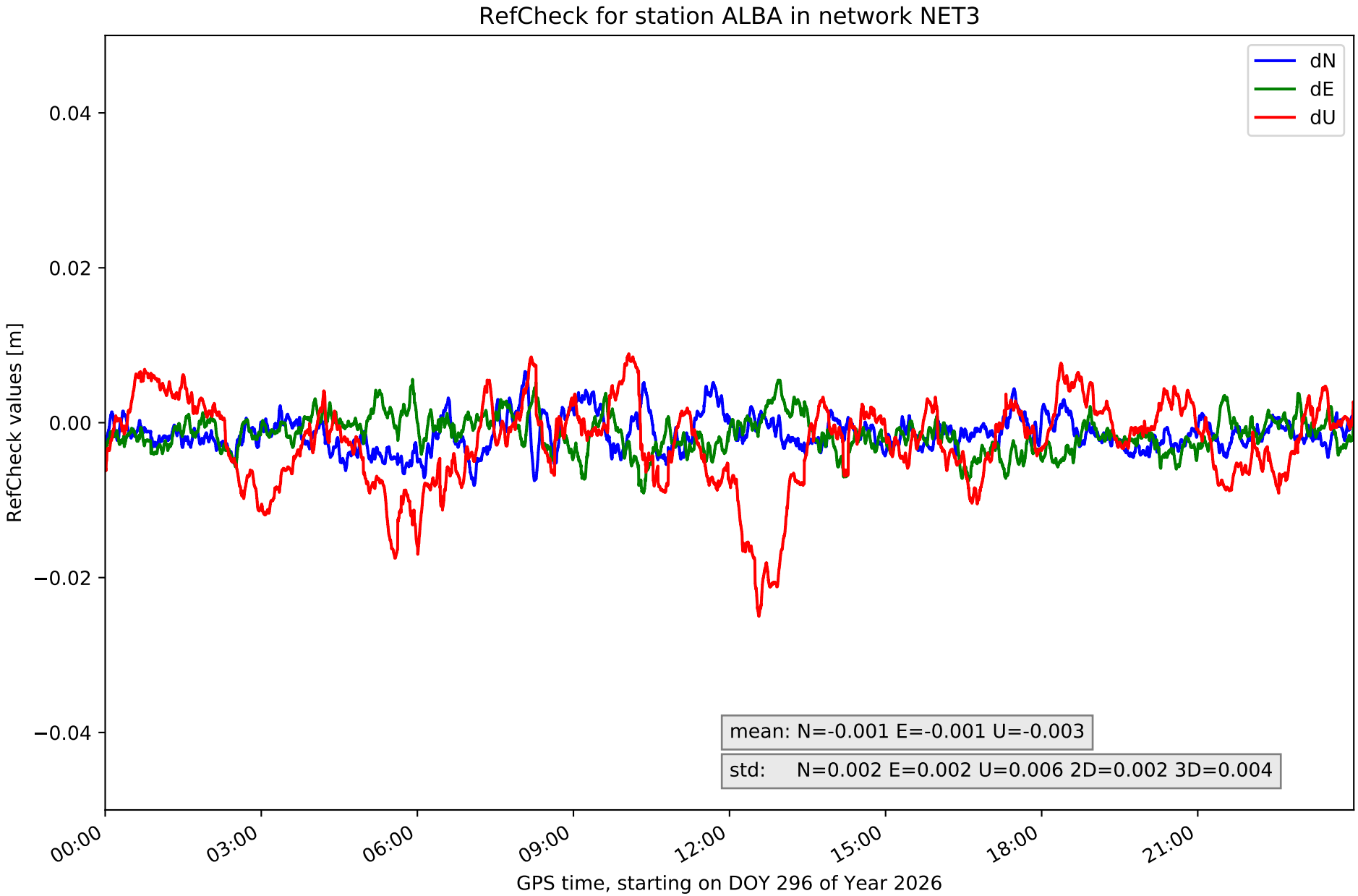

Station MRAT in network NET3
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

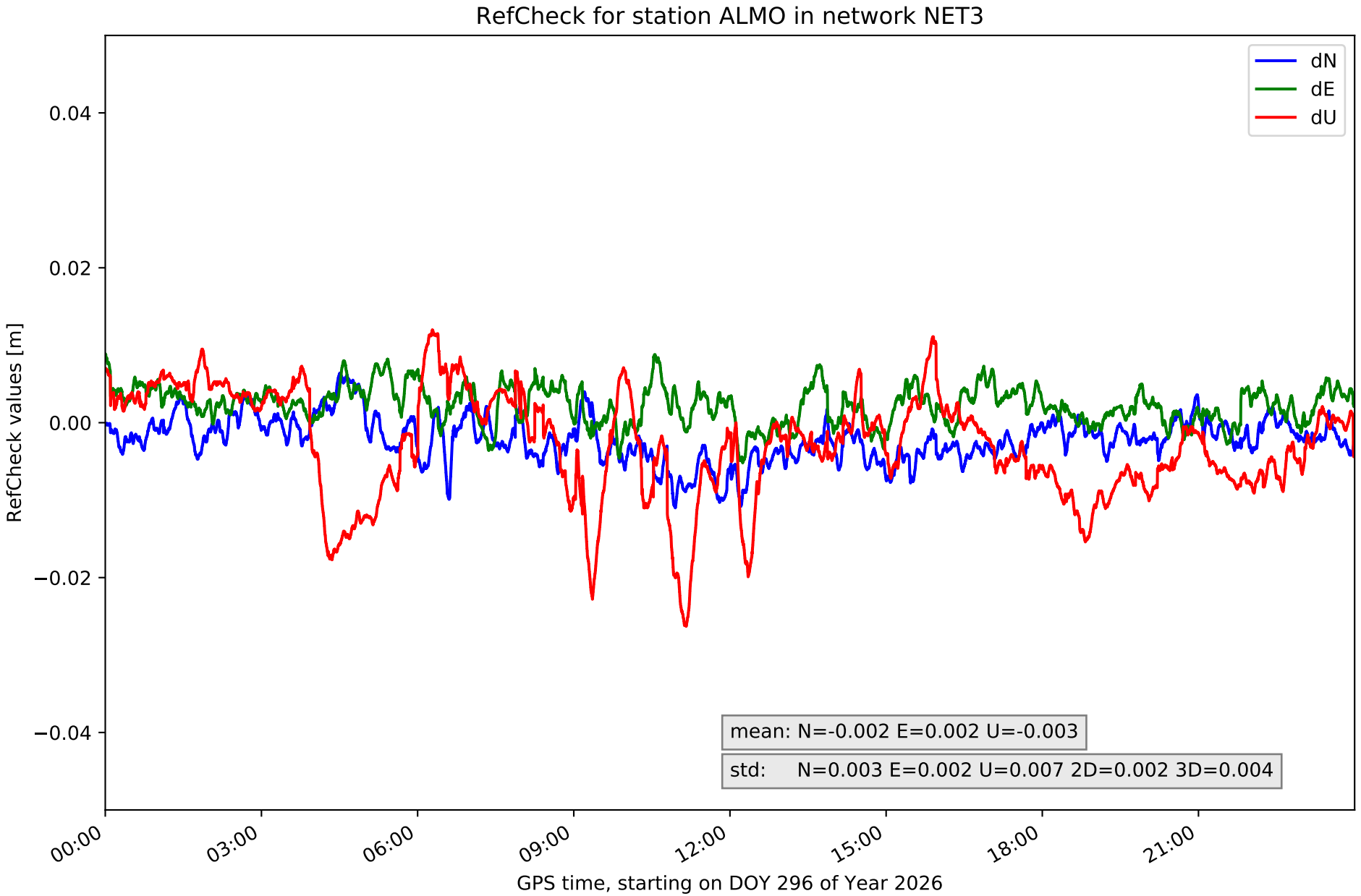

Station SONS in network NET3
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

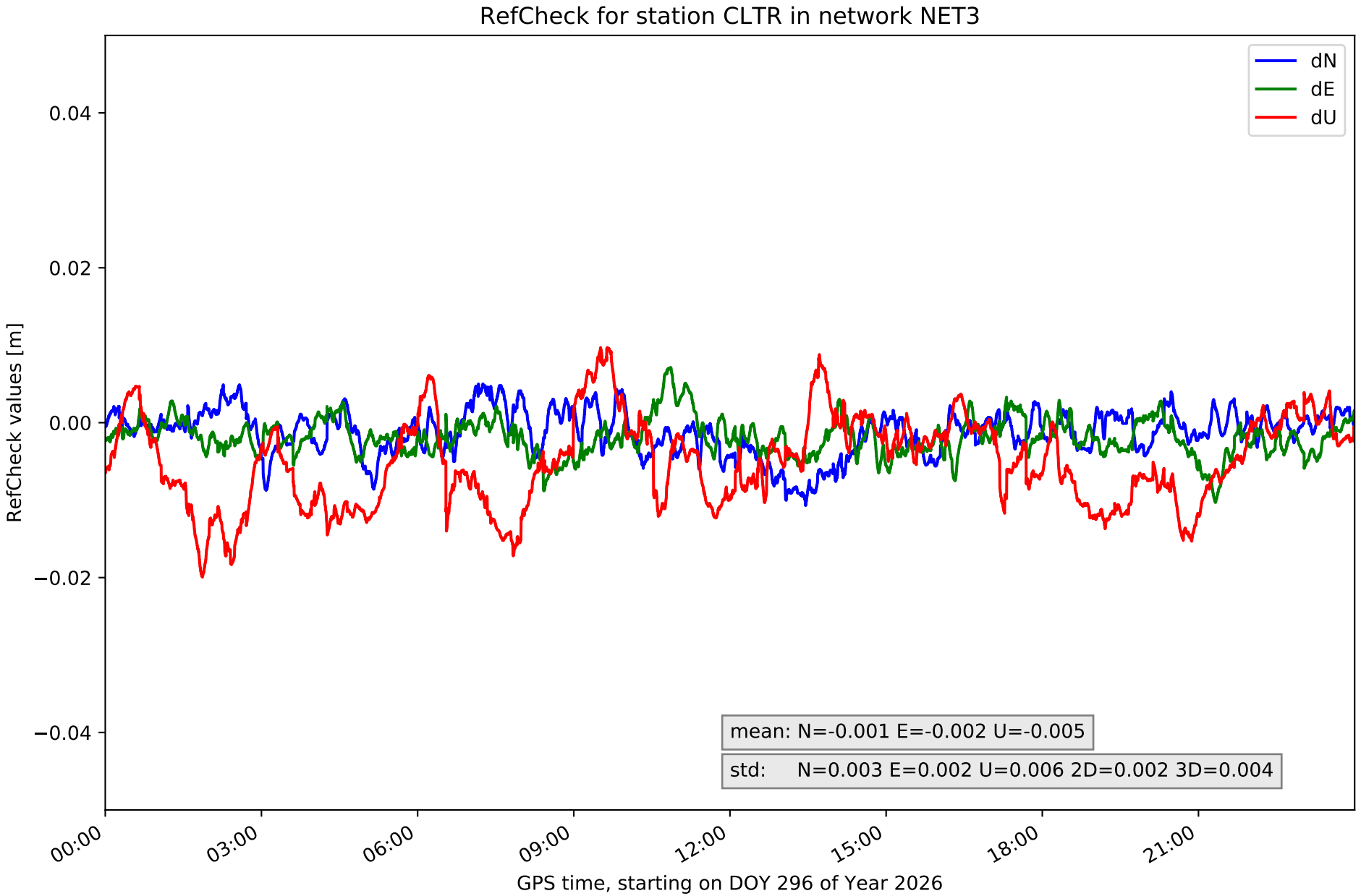

Station UTI1 in network NET3
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

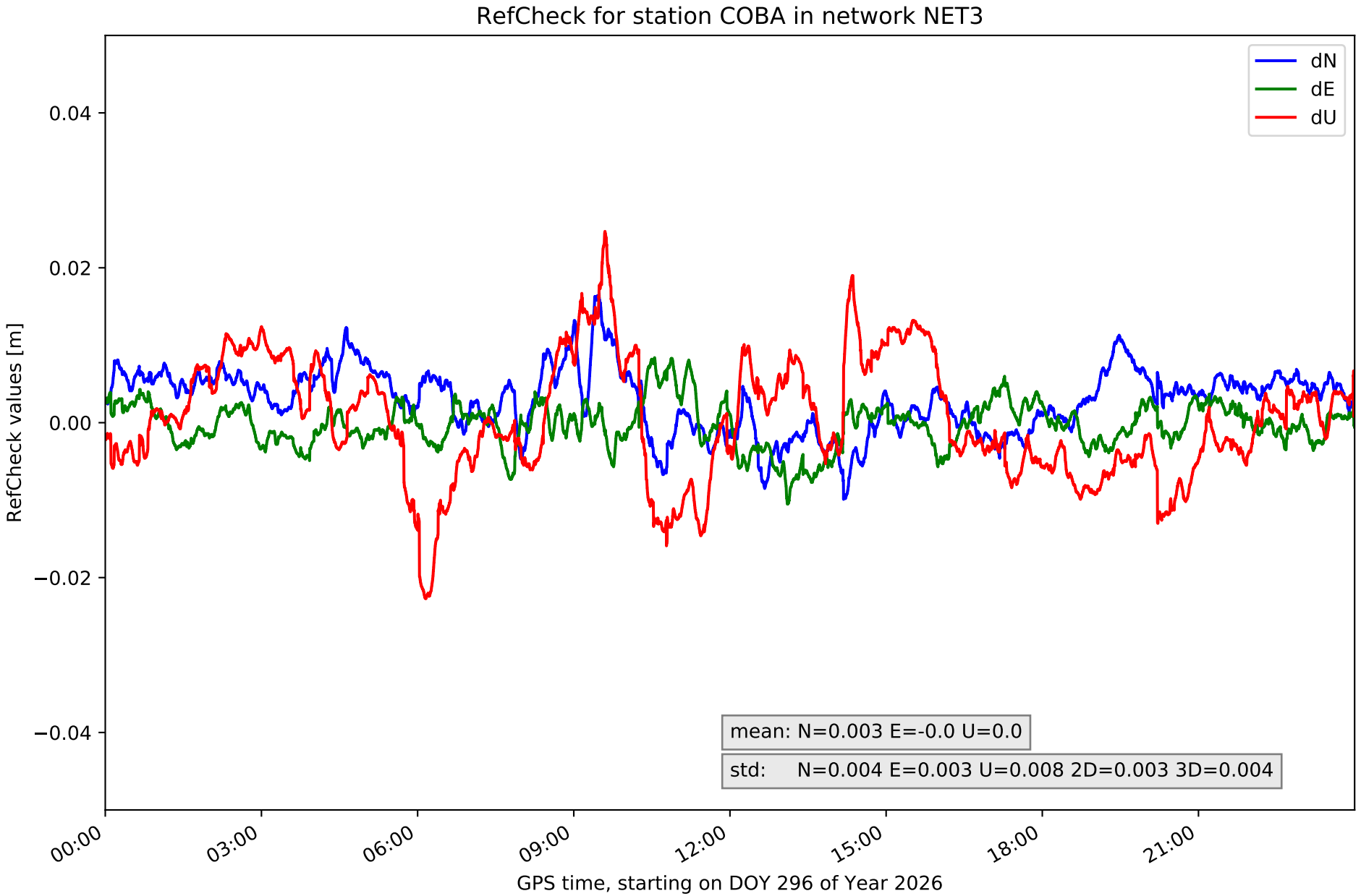

Station VIAR in network NET3
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

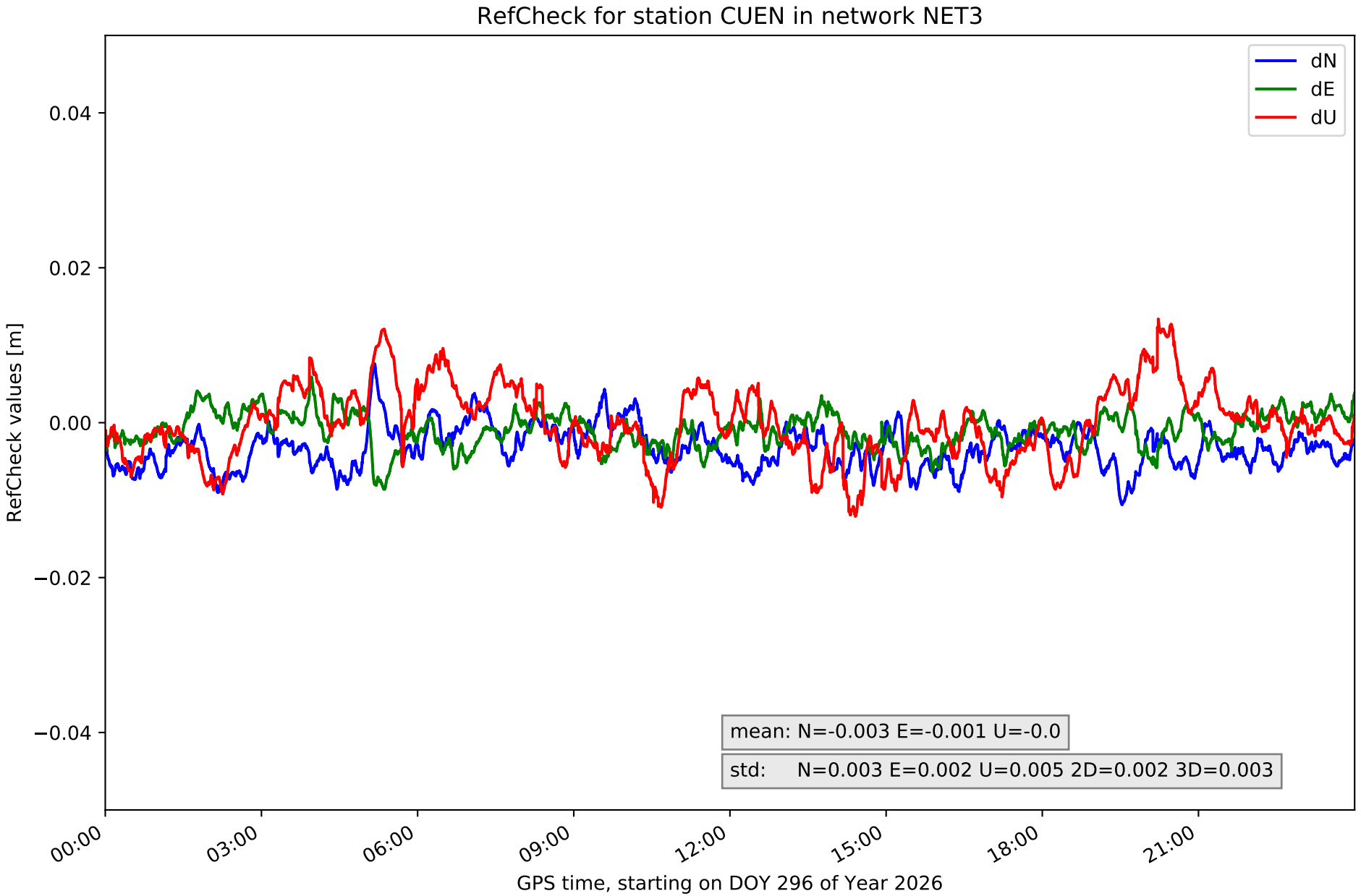

Station VILH in network NET3
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

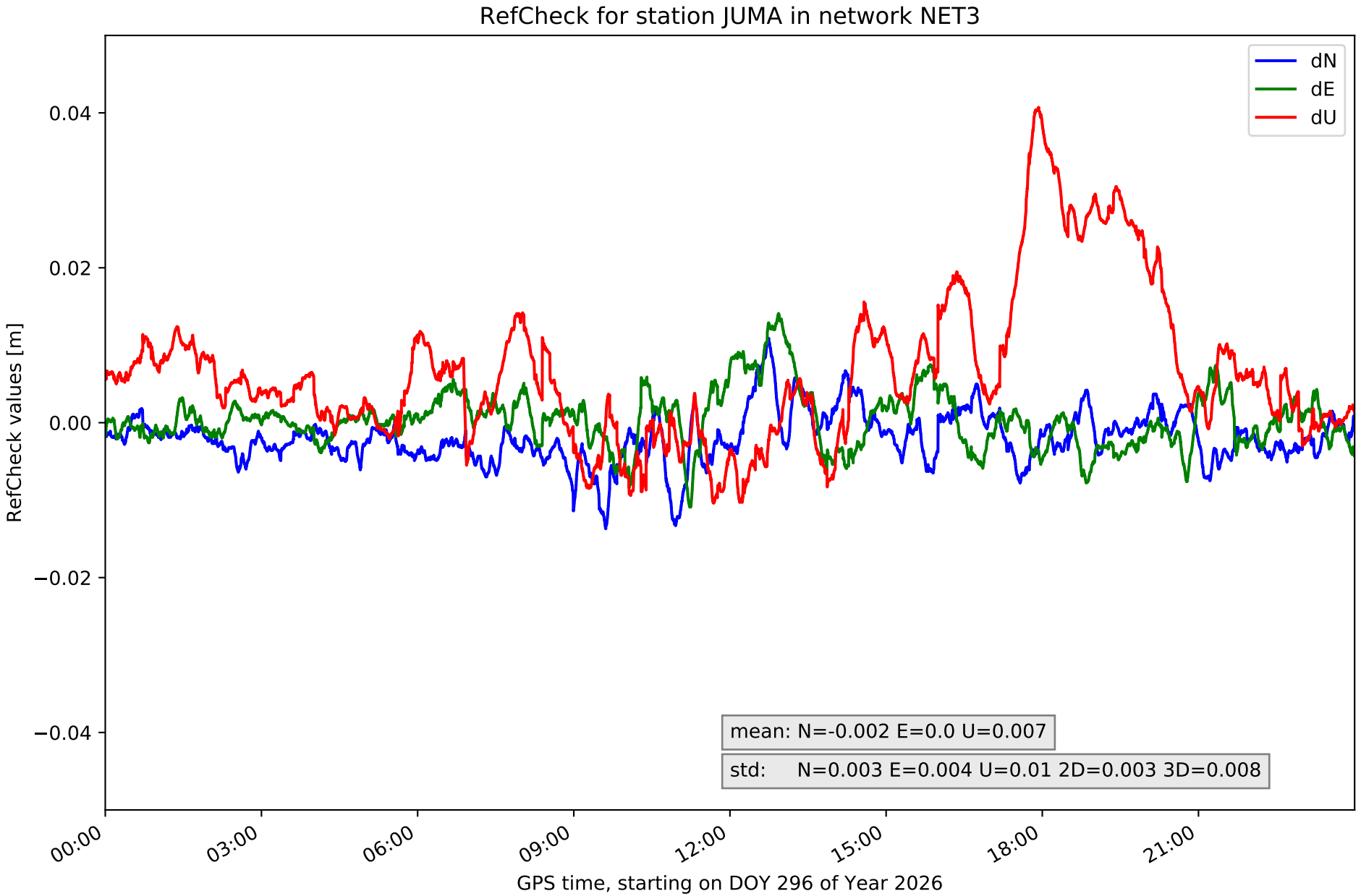

RefCheck for station ALBA in network NET3
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.001 U=-0.003
std: N=0.002 E=0.002 U=0.006 2D=0.002 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

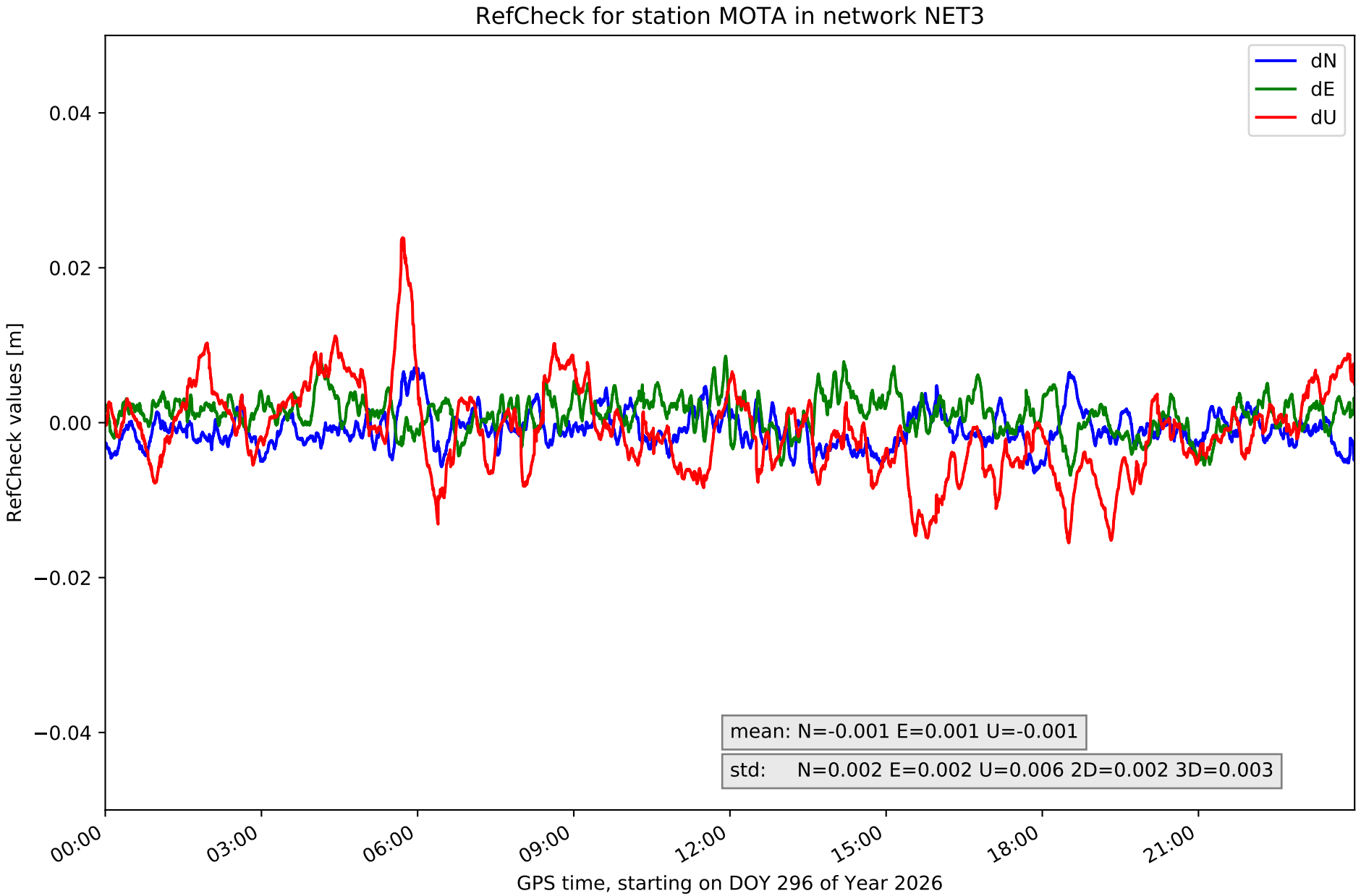

RefCheck for station ALMO in network NET3
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.002 E=0.002 U=-0.003
std: N=0.003 E=0.002 U=0.007 2D=0.002 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

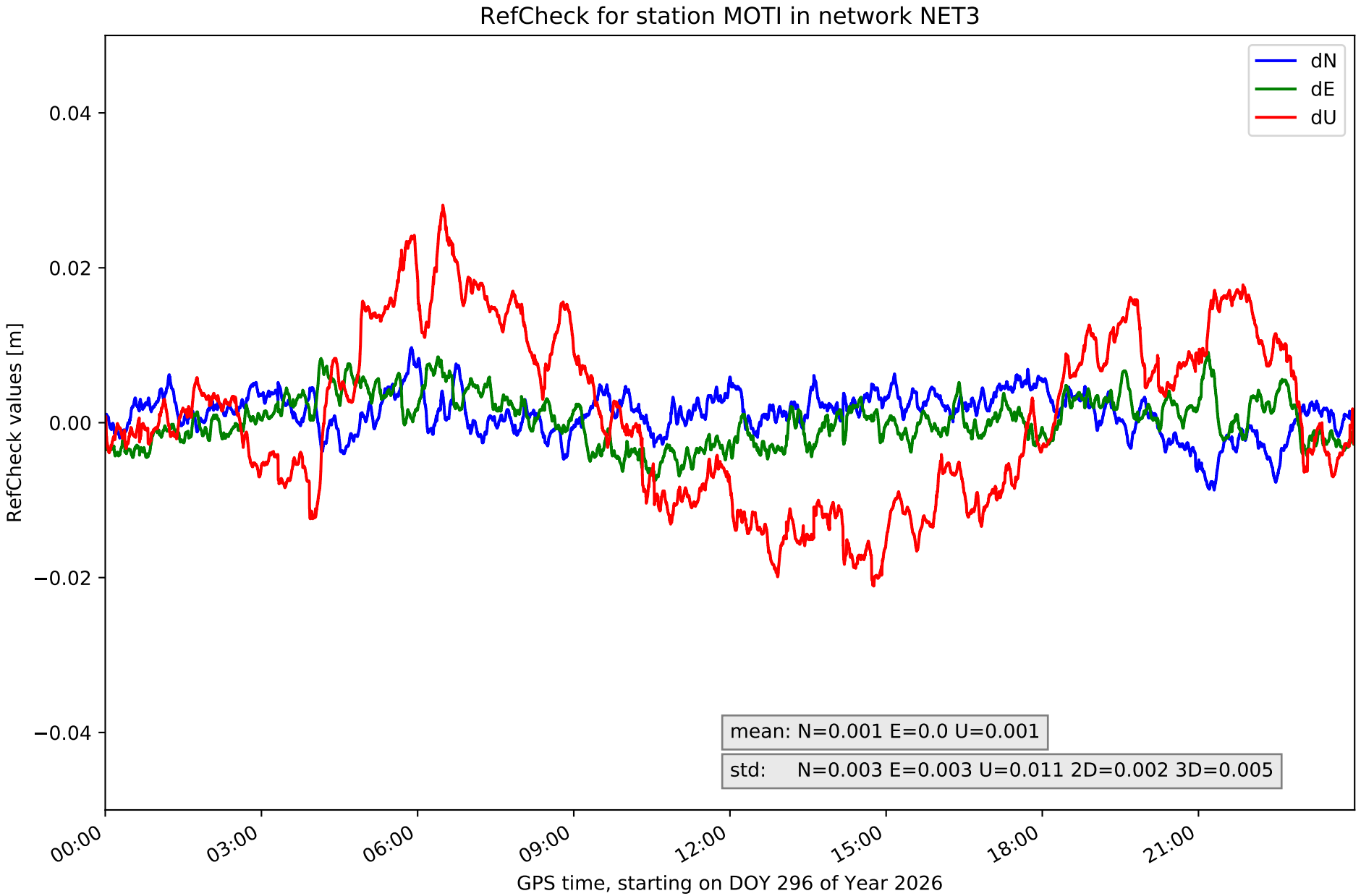

RefCheck for station CLTR in network NET3
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.002 U=-0.005
std: N=0.003 E=0.002 U=0.006 2D=0.002 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

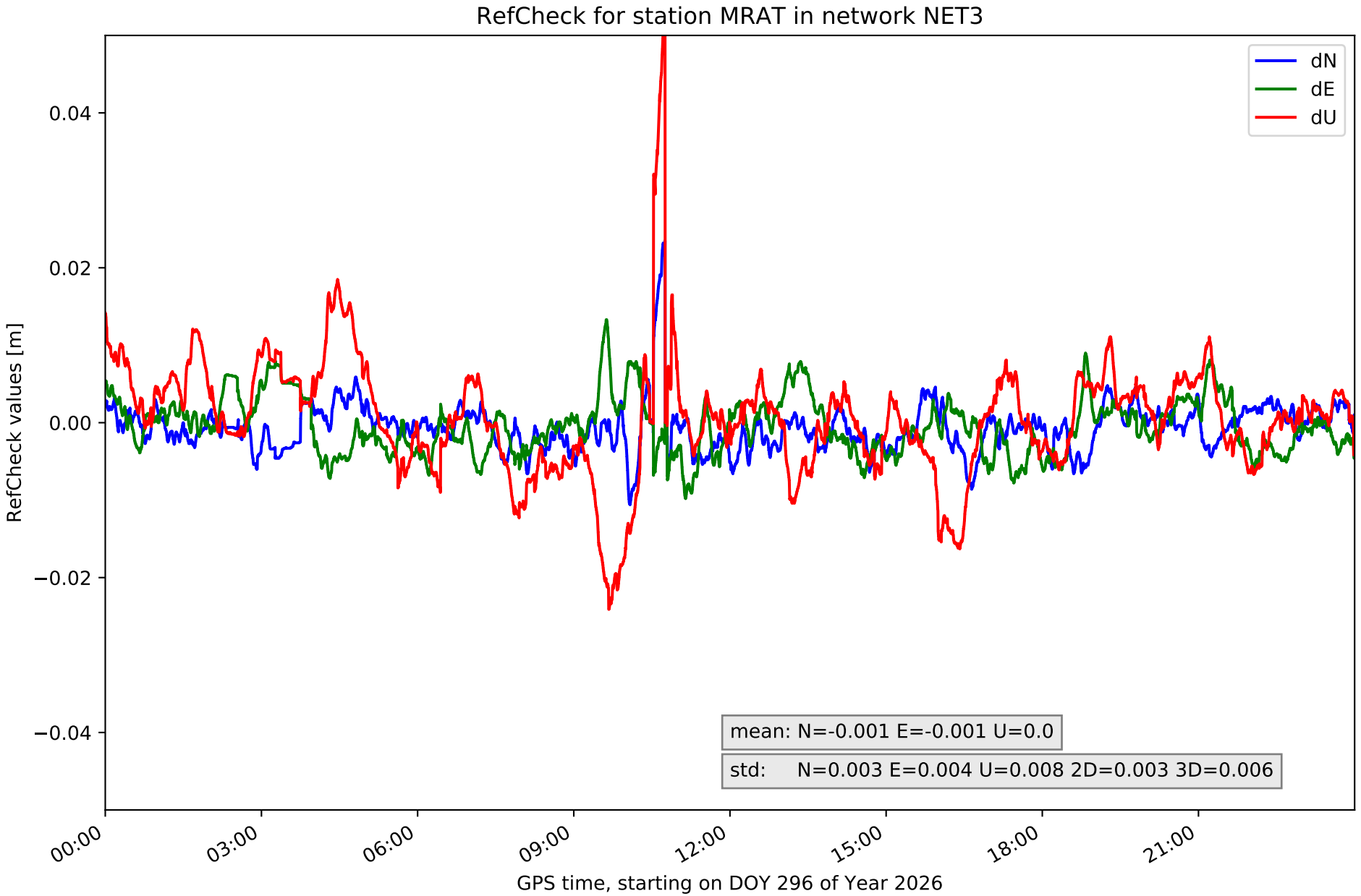

RefCheck for station COBA in network NET3
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.003 E=-0.0 U=0.0
std: N=0.004 E=0.003 U=0.008 2D=0.003 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

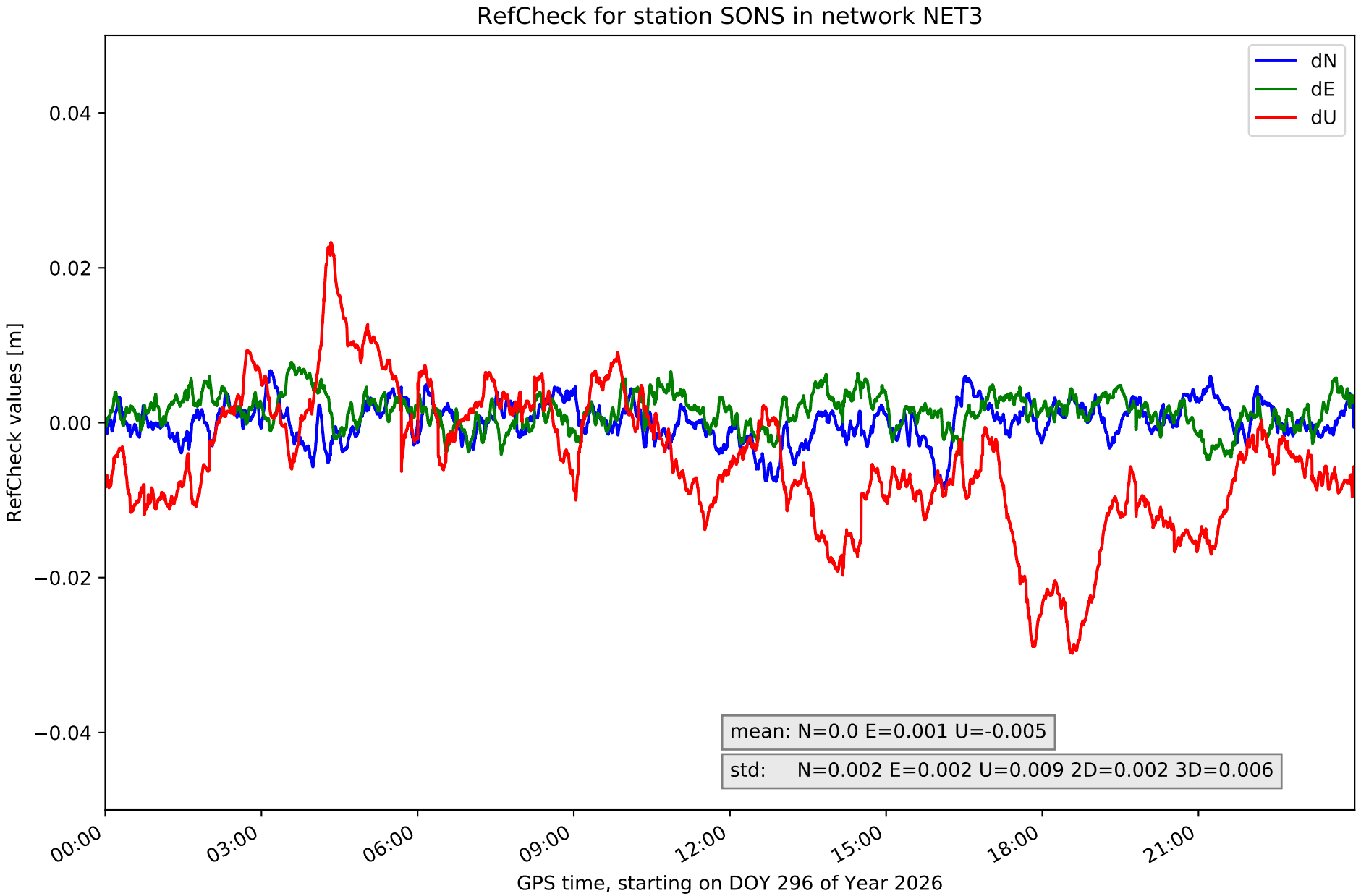

RefCheck for station CUEN in network NET3
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.003 E=-0.001 U=-0.0
std: N=0.003 E=0.002 U=0.005 2D=0.002 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

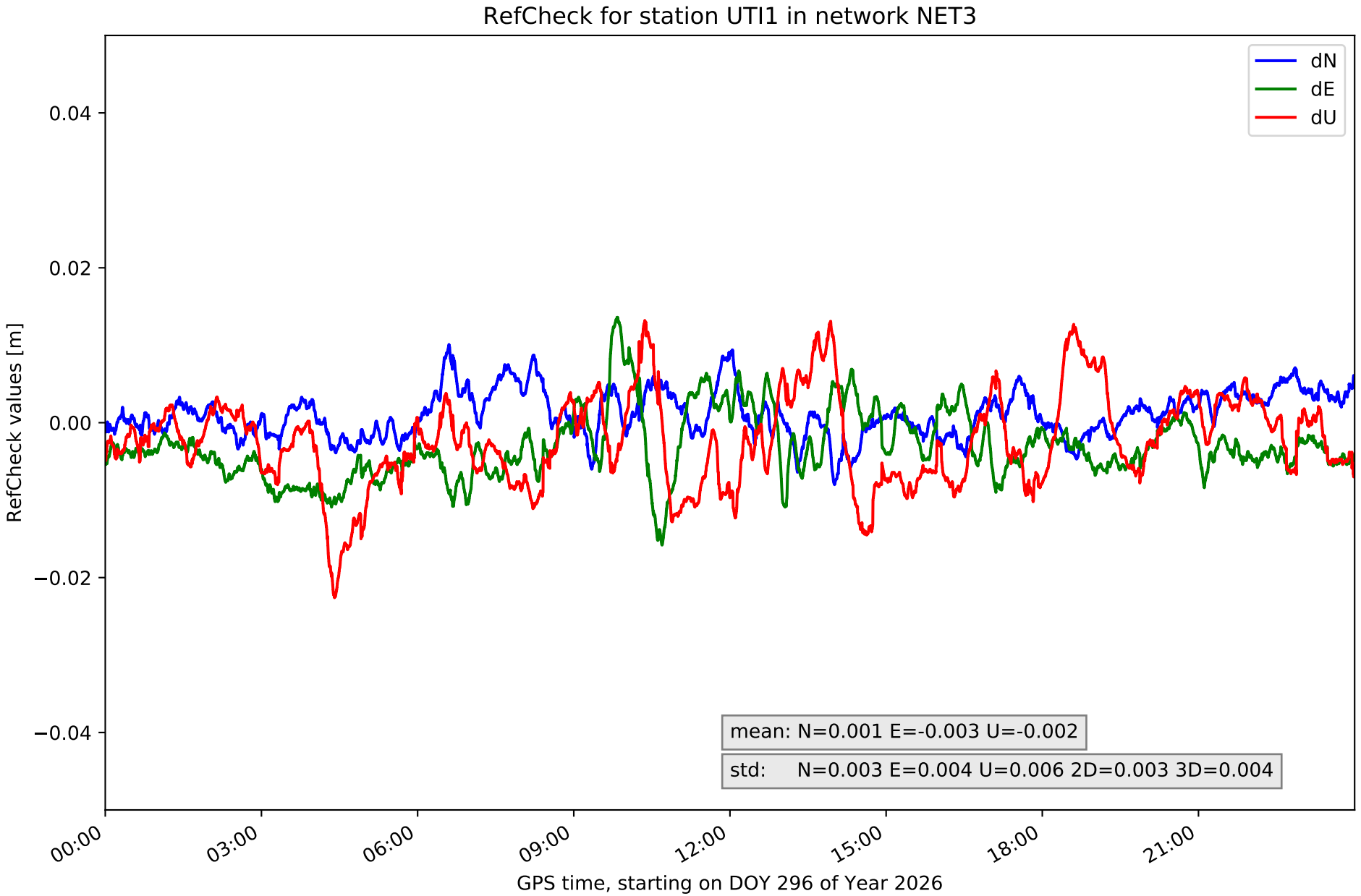

RefCheck for station JUMA in network NET3
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.002 E=0.0 U=0.007
std: N=0.003 E=0.004 U=0.01 2D=0.003 3D=0.008
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

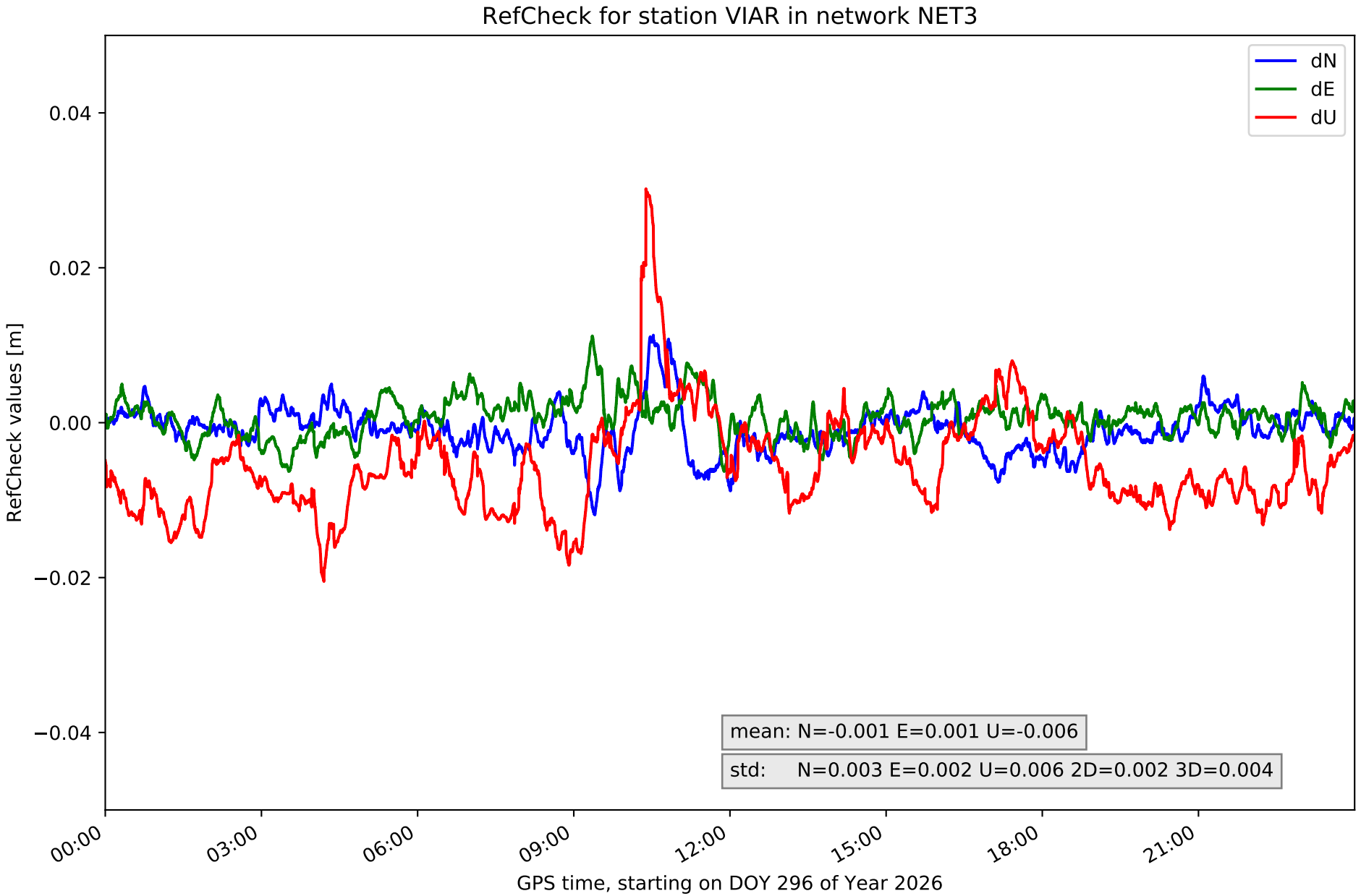

RefCheck for station MOTA in network NET3
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=0.001 U=-0.001
std: N=0.002 E=0.002 U=0.006 2D=0.002 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026

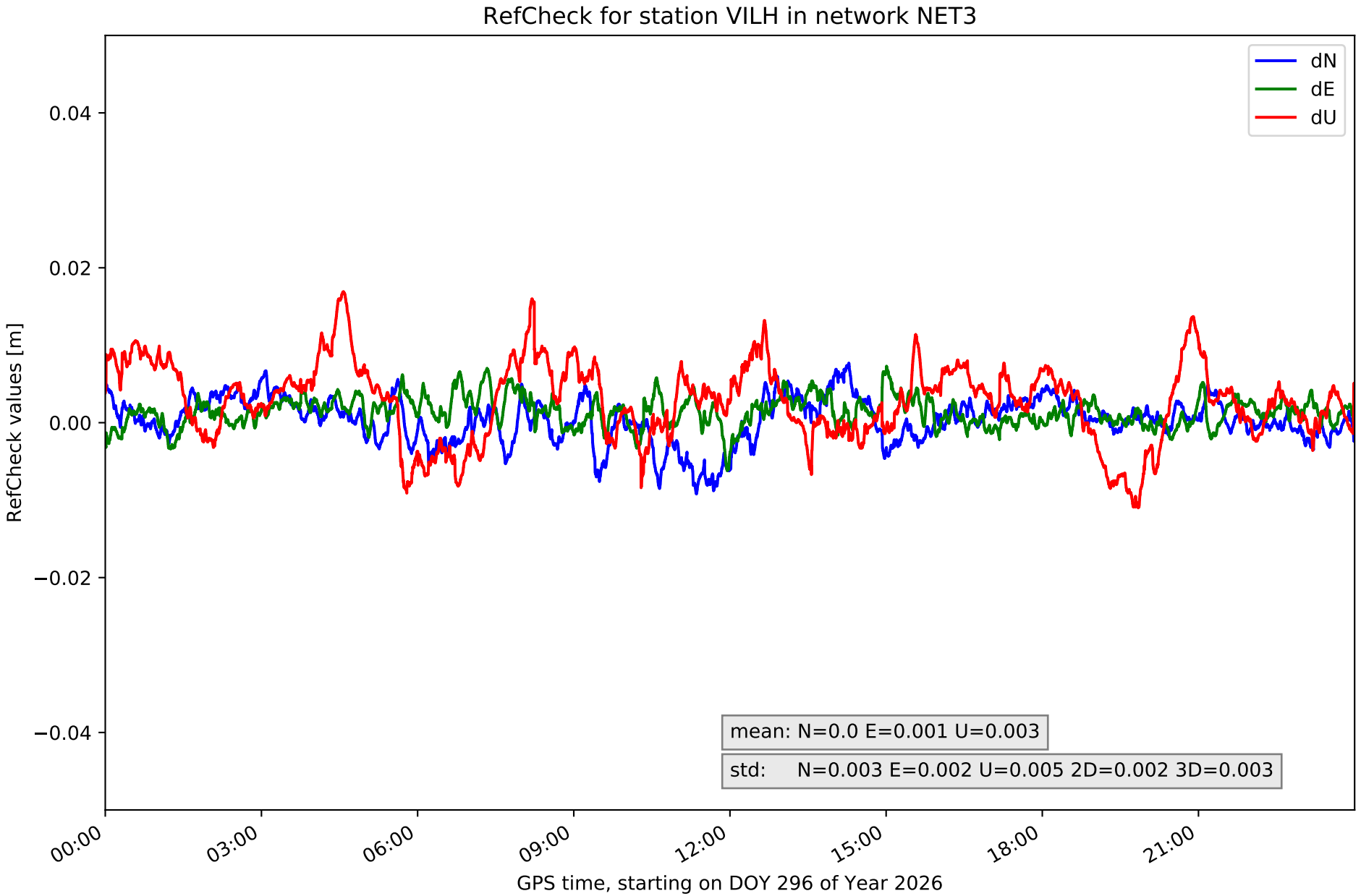

RefCheck for station MOTI in network NET3
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=0.0 U=0.001
std: N=0.003 E=0.003 U=0.011 2D=0.002 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 296 of Year 2026


RefCheck for station MRAT in network NET3
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.001 U=0.0
std: N=0.003 E=0.004 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 SONS in network NET3
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.0 E=0.001 U=-0.005
std: N=0.002 E=0.002 U=0.009 2D=0.002 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 UTI1 in network NET3
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=-0.003 U=-0.002
std: N=0.003 E=0.004 U=0.006 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 VIAR in network NET3
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=0.003 E=0.002 U=0.006 2D=0.002 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 VILH in network NET3
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.0 E=0.001 U=0.003
std: N=0.003 E=0.002 U=0.005 2D=0.002 3D=0.003
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 NET3

| Station | Nmin | Nmax | Nstd | Emin | Emax | Estd | Umin | Umax | Ustd | std2D | std3D | #2D > 0.01 | % 2D > 0.01 | #3D > 0.02 | % 3D > 0.02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALBA | -0.008 | 0.007 | 0.002 | -0.009 | 0.006 | 0.002 | -0.025 | 0.009 | 0.006 | 0.002 | 0.004 | 70 | 0.1 | 1288 | 1.6 |
| ALMO | -0.011 | 0.006 | 0.003 | -0.005 | 0.009 | 0.002 | -0.026 | 0.012 | 0.007 | 0.002 | 0.004 | 1554 | 1.9 | 1848 | 2.3 |
| CLTR | -0.011 | 0.005 | 0.003 | -0.01 | 0.007 | 0.002 | -0.02 | 0.01 | 0.006 | 0.002 | 0.004 | 1080 | 1.3 | 48 | 0.1 |
| COBA | -0.01 | 0.017 | **0.004** | -0.011 | 0.008 | 0.003 | -0.023 | 0.025 | 0.008 | **0.003** | 0.004 | 3351 | 4.2 | 2015 | 2.5 |
| CUEN | -0.011 | 0.008 | 0.003 | -0.009 | 0.006 | 0.002 | -0.012 | 0.013 | 0.005 | 0.002 | 0.003 | 407 | 0.5 | 0 | 0.0 |
| JUMA | **-0.014** | 0.011 | 0.003 | -0.011 | **0.014** | **0.004** | -0.01 | 0.041 | 0.01 | **0.003** | **0.008** | 3855 | 4.8 | **9197** | **11.4** |
| MOTA | -0.006 | 0.007 | 0.002 | -0.007 | 0.009 | 0.002 | -0.015 | 0.024 | 0.006 | 0.002 | 0.003 | 0 | 0.0 | 413 | 0.5 |
| MOTI | -0.009 | 0.01 | 0.003 | -0.007 | 0.009 | 0.003 | -0.021 | 0.028 | **0.011** | 0.002 | 0.005 | 608 | 0.8 | 3460 | 4.3 |
| MRAT | -0.011 | **0.024** | 0.003 | -0.01 | 0.013 | **0.004** | -0.024 | **0.06** | 0.008 | **0.003** | 0.006 | 1854 | 2.3 | 1743 | 2.2 |
| SONS | -0.009 | 0.007 | 0.002 | -0.005 | 0.008 | 0.002 | **-0.03** | 0.023 | 0.009 | 0.002 | 0.006 | 0 | 0.0 | 5739 | 7.1 |
| UTI1 | -0.008 | 0.01 | 0.003 | **-0.016** | **0.014** | **0.004** | -0.023 | 0.013 | 0.006 | **0.003** | 0.004 | **4447** | **5.5** | 849 | 1.1 |
| VIAR | -0.012 | 0.011 | 0.003 | -0.006 | 0.011 | 0.002 | -0.021 | 0.03 | 0.006 | 0.002 | 0.004 | 1534 | 1.9 | 940 | 1.2 |
| VILH | -0.009 | 0.008 | 0.003 | -0.006 | 0.007 | 0.002 | -0.011 | 0.017 | 0.005 | 0.002 | 0.003 | 0 | 0.0 | 0 | 0.0 |
| **Mean** | **-0.01** | **0.01** | **0.003** | **-0.009** | **0.009** | **0.003** | **-0.02** | **0.023** | **0.007** | **0.002** | **0.004** | **1443.1** | **1.8** | **2118.5** | **2.6** |
| **Min/Max** | **-0.014** | **0.024** | **0.004** | **-0.016** | **0.014** | **0.004** | **-0.03** | **0.06** | **0.011** | **0.003** | **0.008** | **4447** | **5.5** | **9197** | **11.4** |

# fixing statistic for network NET3

| fixing percentage of | all GNSS | G | R | E | C |
|---|---|---|---|---|---|
| using threshold 0.3 | 95.2 | 95.4 | 94.5 | 96.4 | 94.2 |
| considering satellites with dual-frequency fixed | 93.9 | 94.3 | 92.9 | 95.2 | 92.5 |
| considering all signals separately | 93.9 | 94.4 | 92.9 | 95.4 | 90.9 |