# summary for network NET5

timeperiod chosen: from 2026-11-11-00:00:00 until 2026-11-11-23:59:59

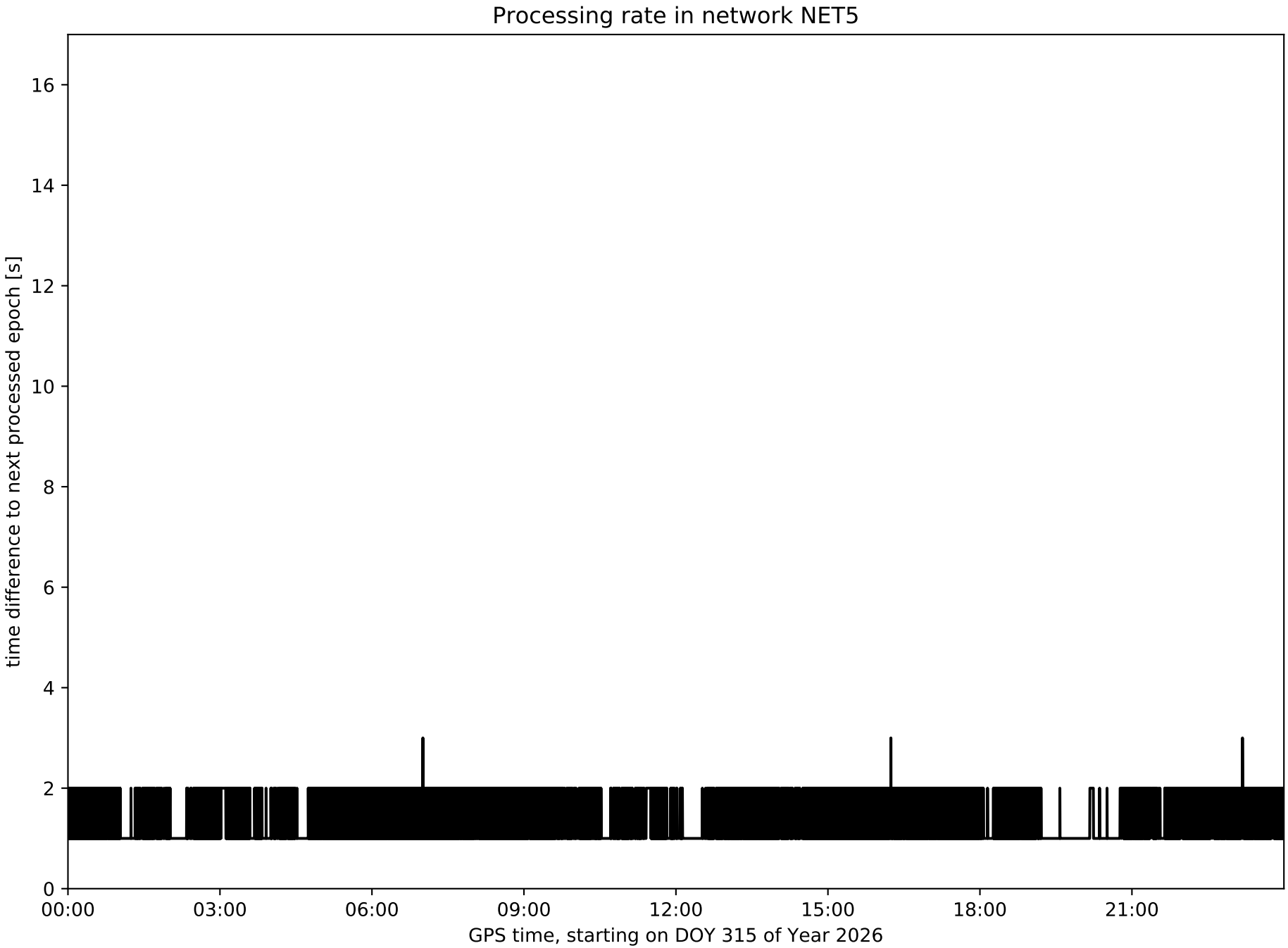
average update rate (durations larger than 15 seconds considered as observation gap): 1.1 seconds

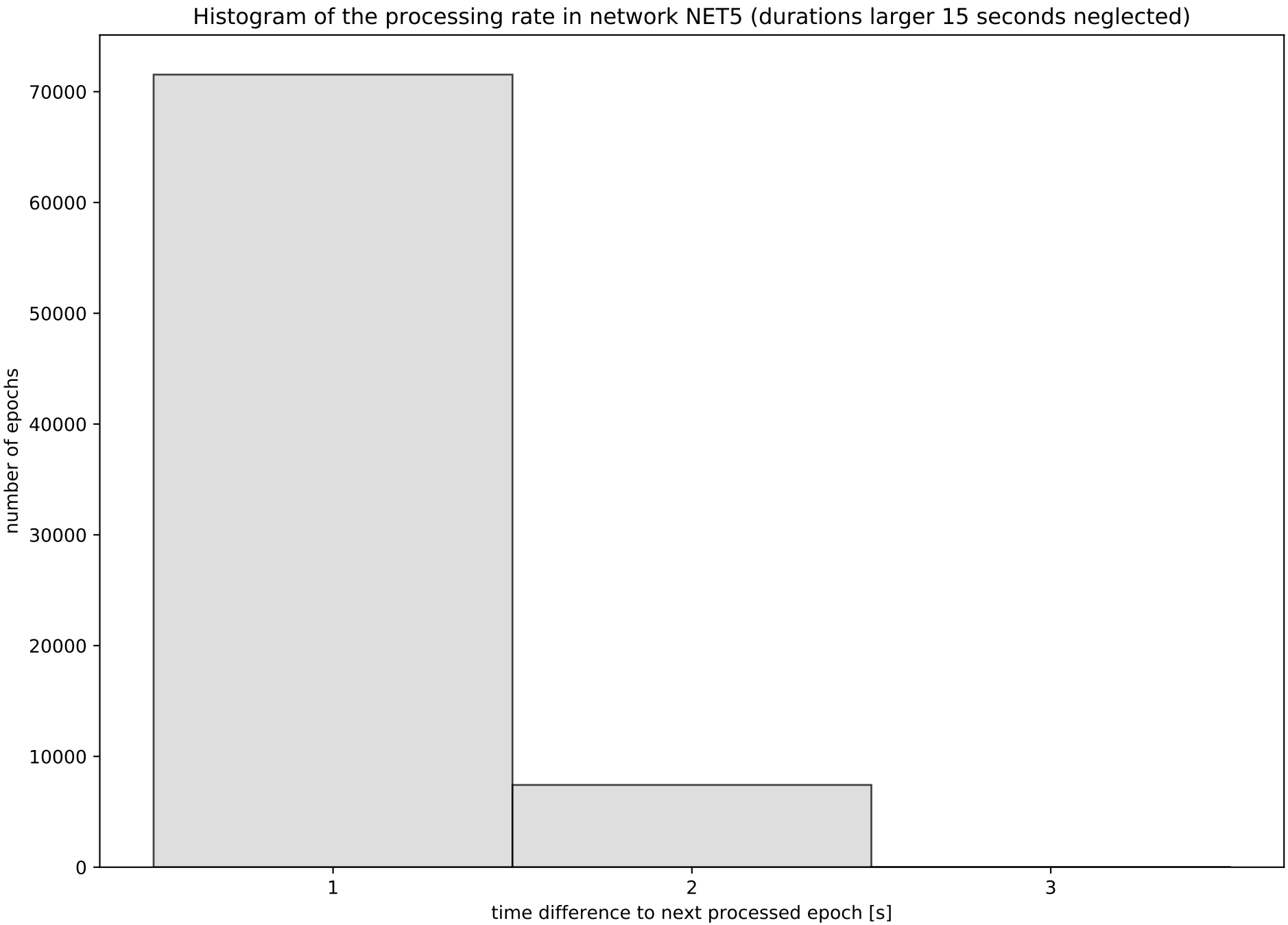
average fixing percentage with threshold set to 0.3: 94.5 percent

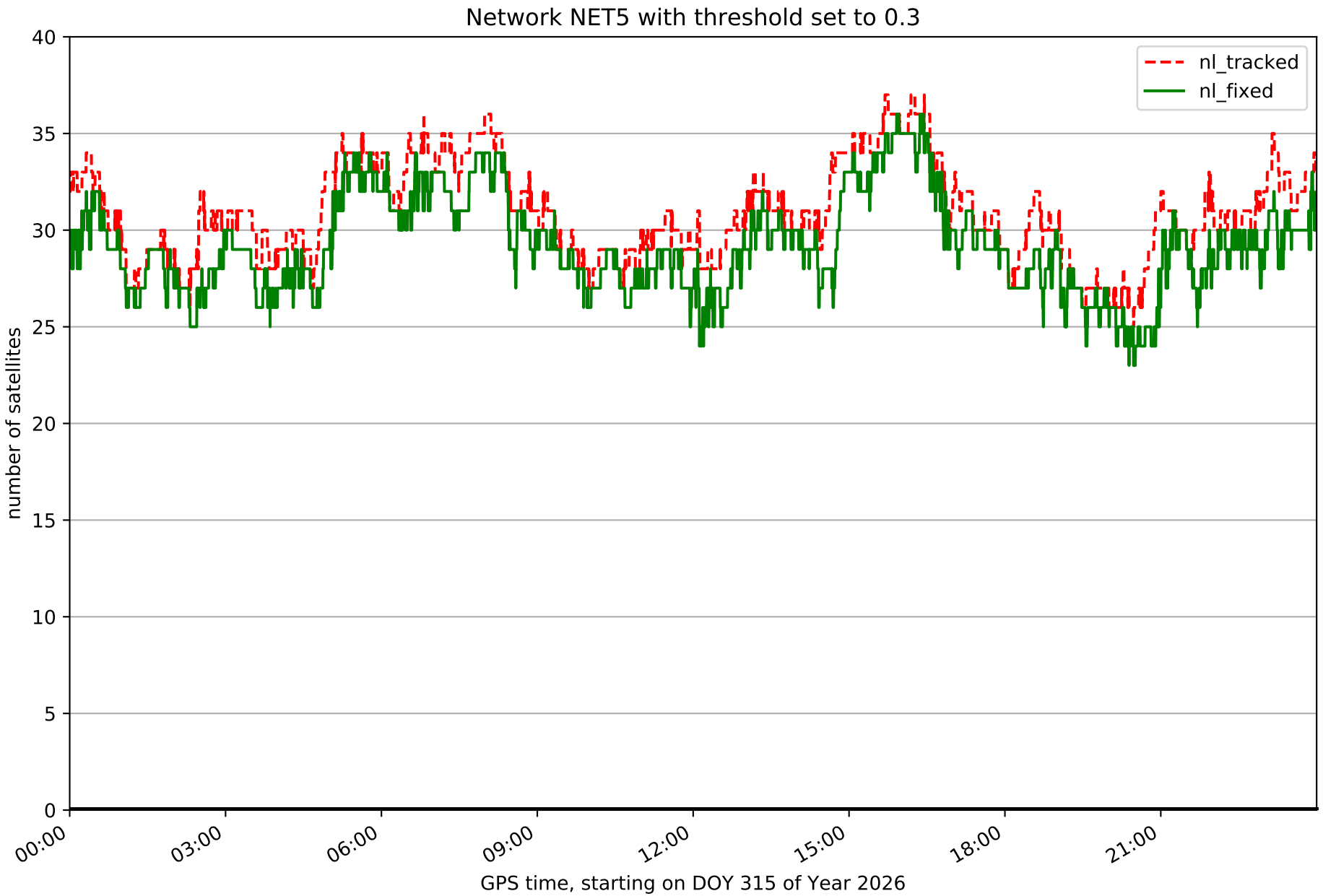
stations available: 14 of 14

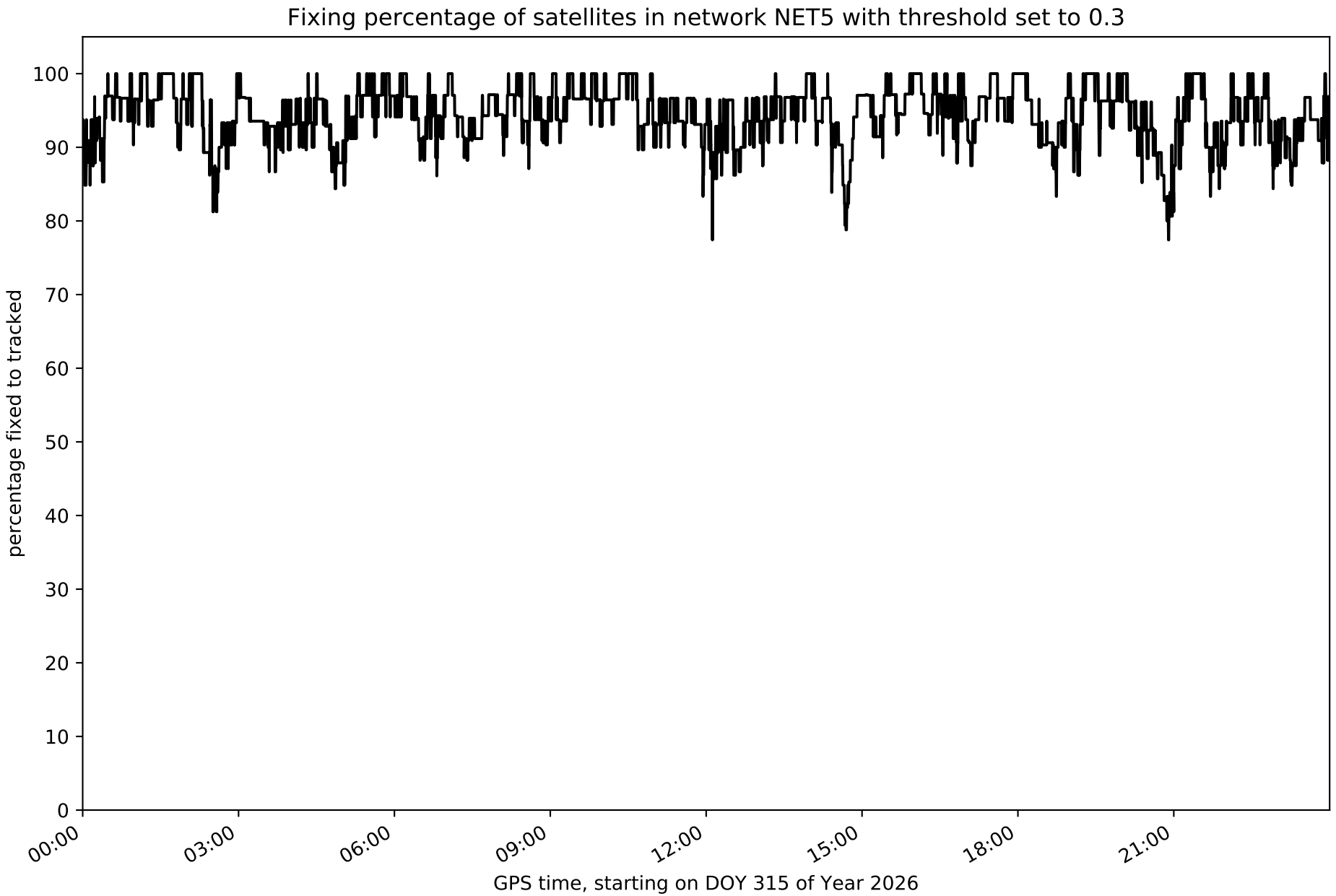
station information:

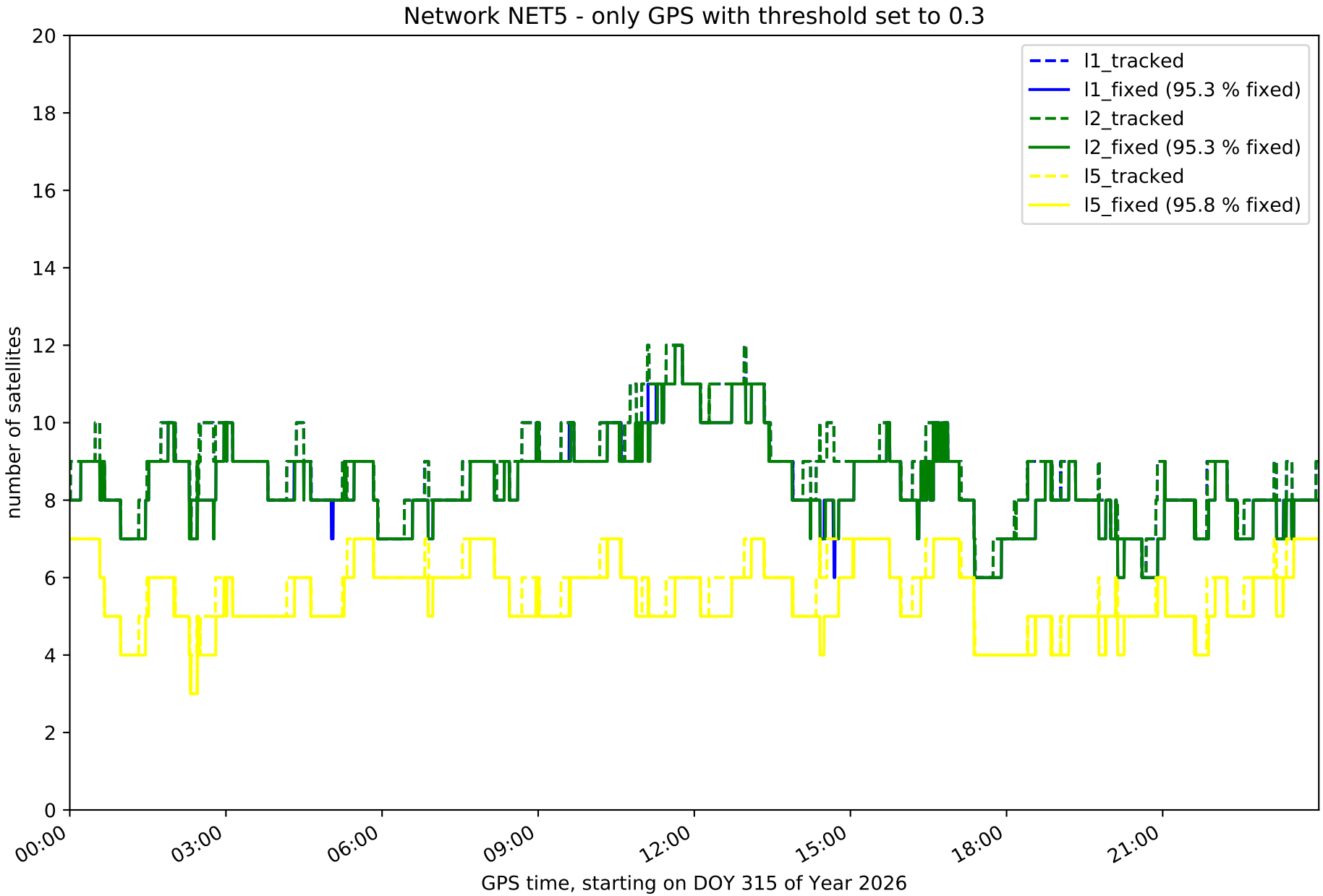
| | | | |
|---|---|---|---|
| station ARDU: | antenna: LEIAR20 LEIM | receiver: LEICA GR50 | height: 844.47 |
| station BUOS: | antenna: TRM59900.00 SCIS | receiver: TRIMBLE NETR9 | height: 963.892 |
| station BURG: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 939.518 |
| station CALH: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 411.39 |
| station CAS0: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR30 | height: 564.199 |
| station CERV: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 723.308 |
| station ELCI: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR30 | height: 525.686 |
| station LOSA: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 510.249 |
| station QINT: | antenna: TRM59900.00 SCIS | receiver: TRIMBLE NETR9 | height: 1191.824 |
| station RIO1: | antenna: LEIAR25.R4 LEIT | receiver: LEICA GR50 | height: 450.419 |
| station SANR: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 361.505 |
| station SORI: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 1135.68 |
| station SROM: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 1150.482 |
| station VTRO: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 1626.171 |

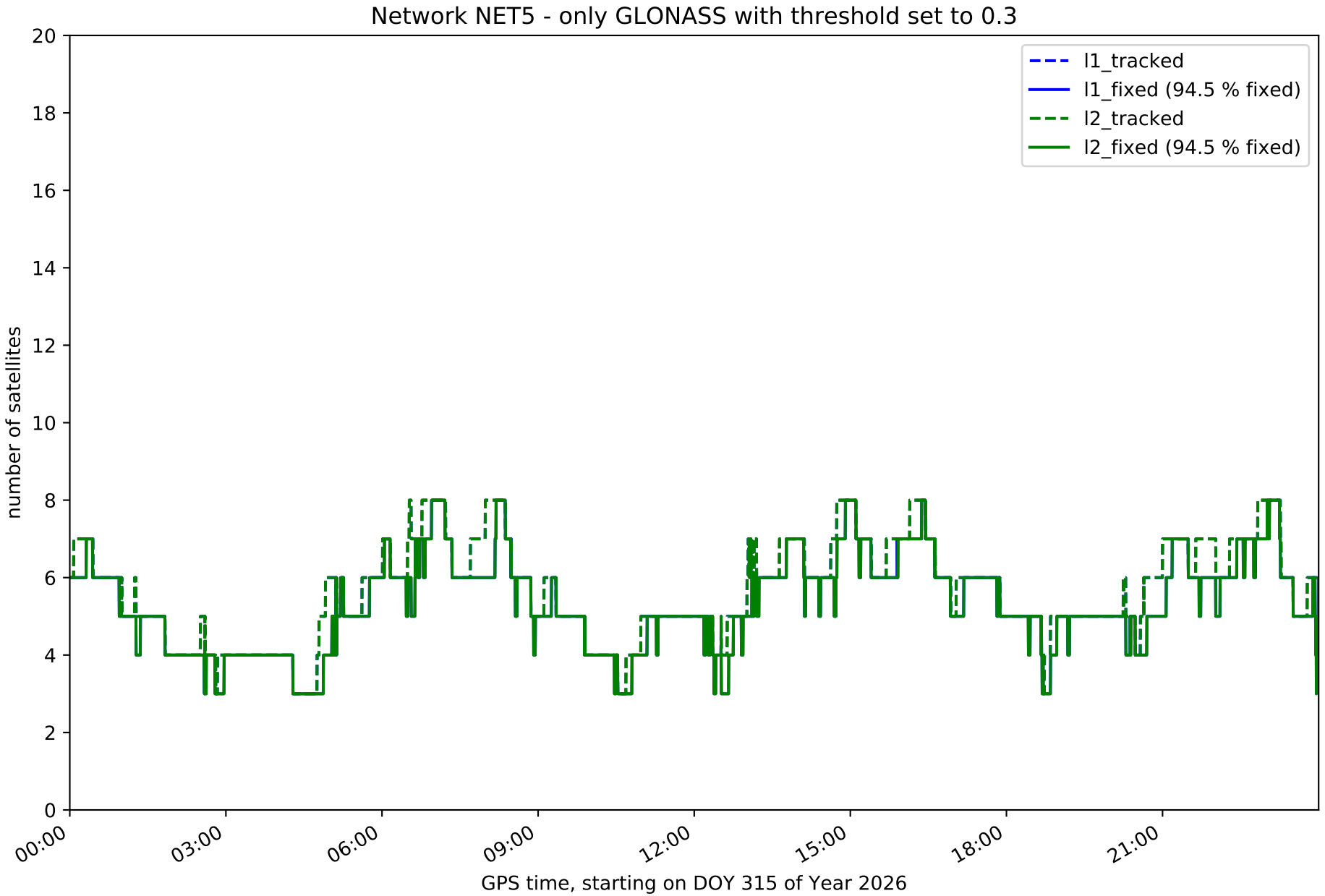

Processing rate in network NET5
time difference to next processed epoch [s]
0
2
4
6
8
10
12
14
16
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

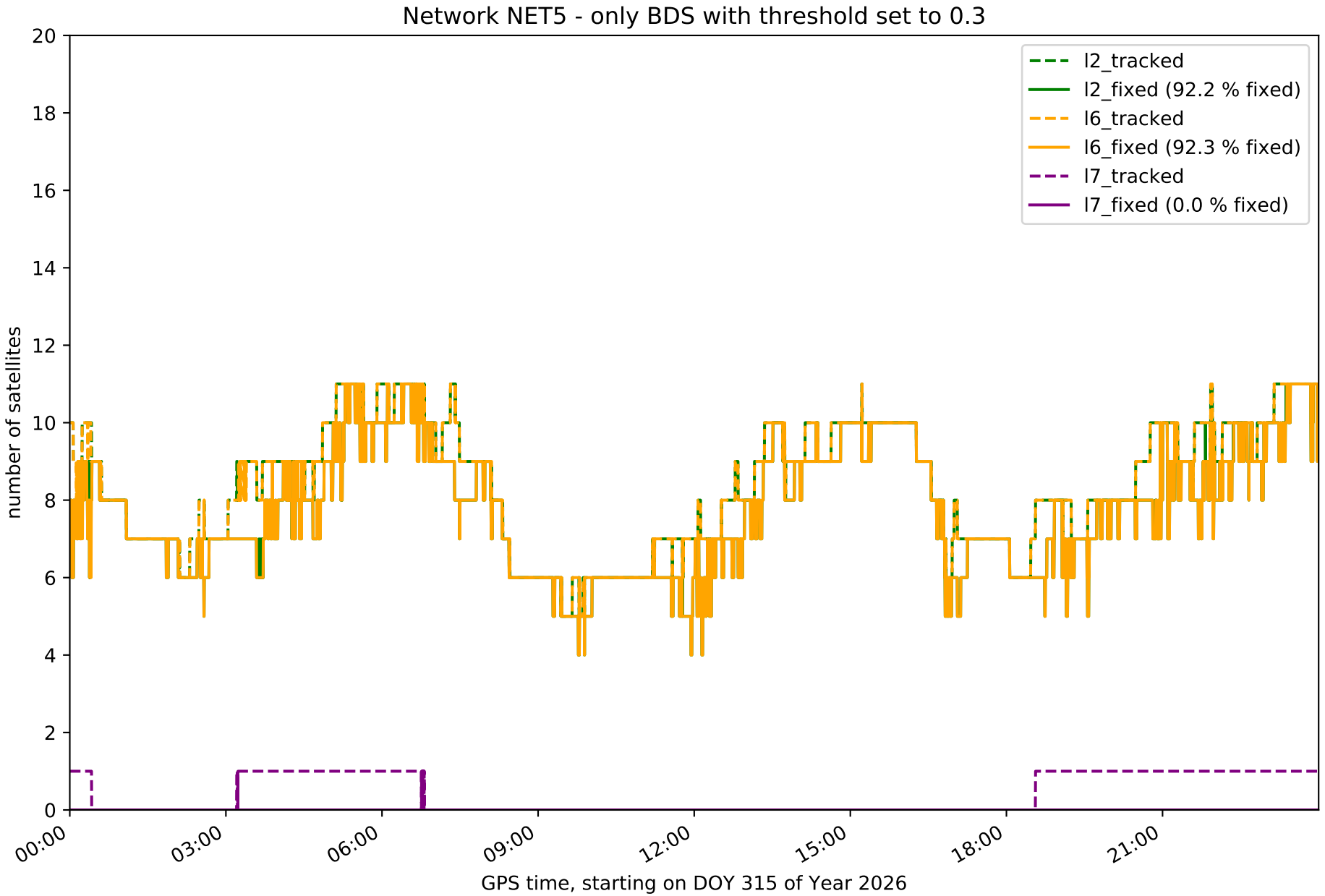

Histogram of the processing rate in network NET5 (durations larger 15 seconds neglected)
number of epochs
70000
60000
50000
40000
30000
20000
10000
0
1
2
3
time difference to next processed epoch [s]

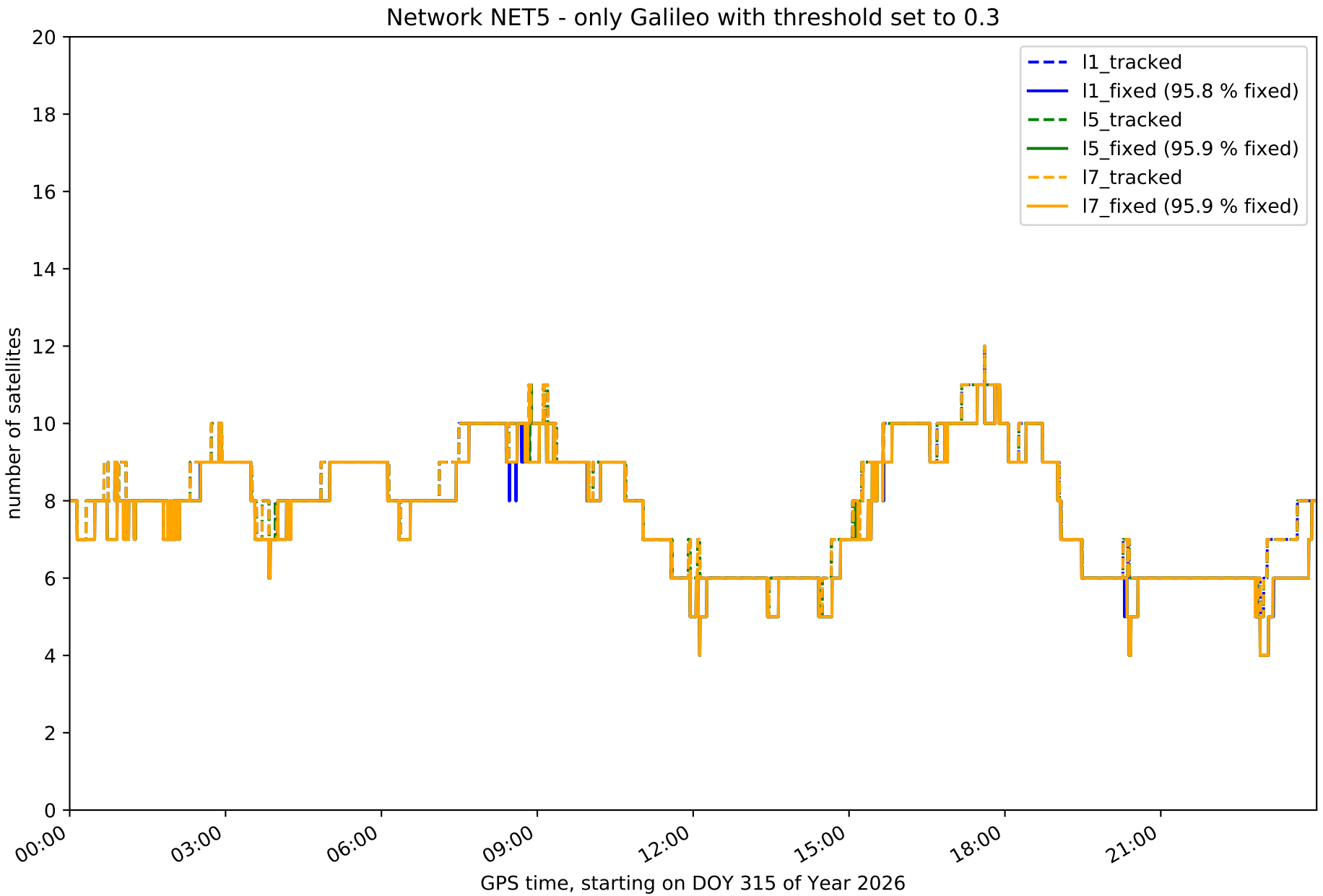

Network NET5 with threshold set to 0.3
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
40
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

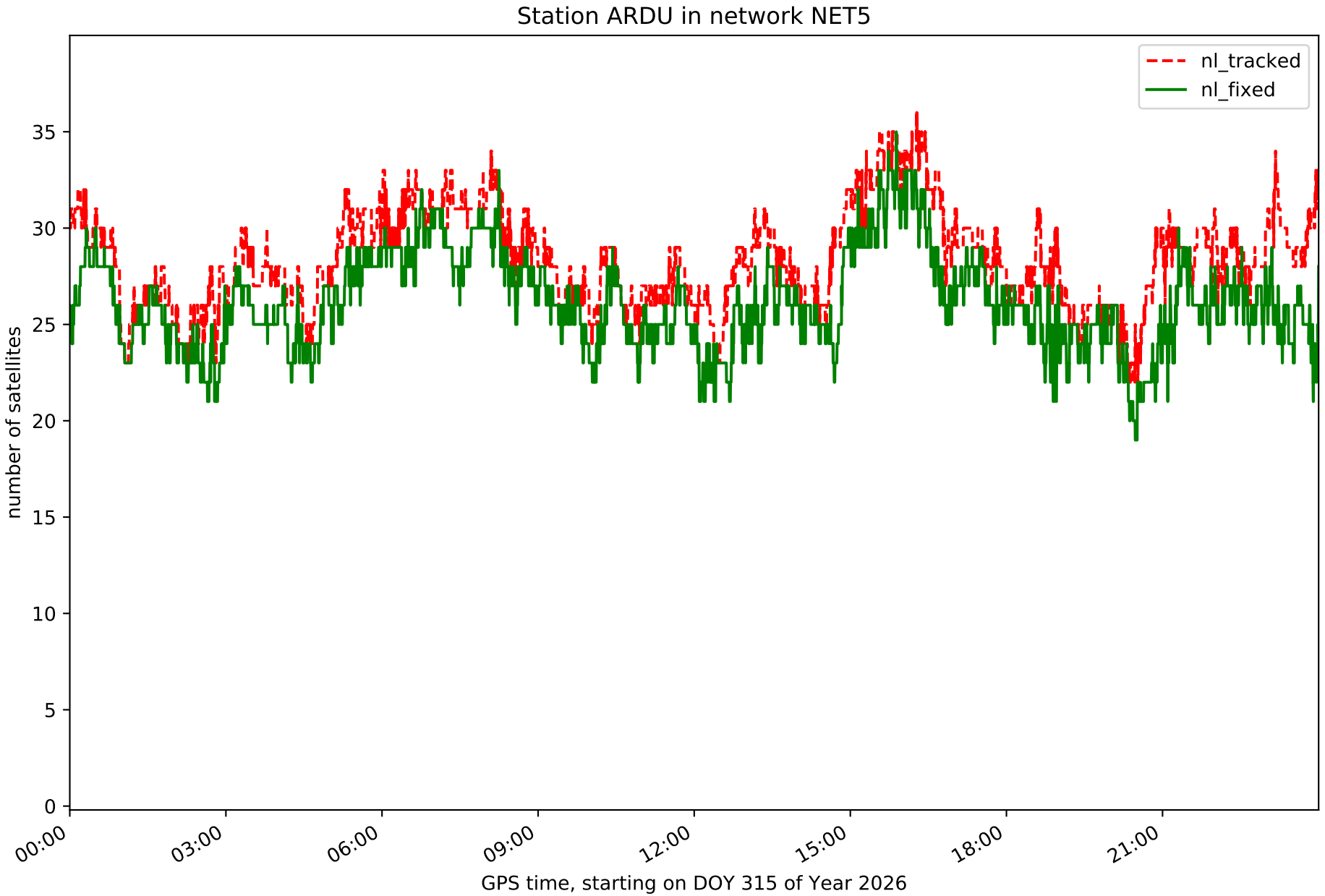

Fixing percentage of satellites in network NET5 with threshold set to 0.3
percentage fixed to tracked
100
90
80
70
60
50
40
30
20
10
0
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

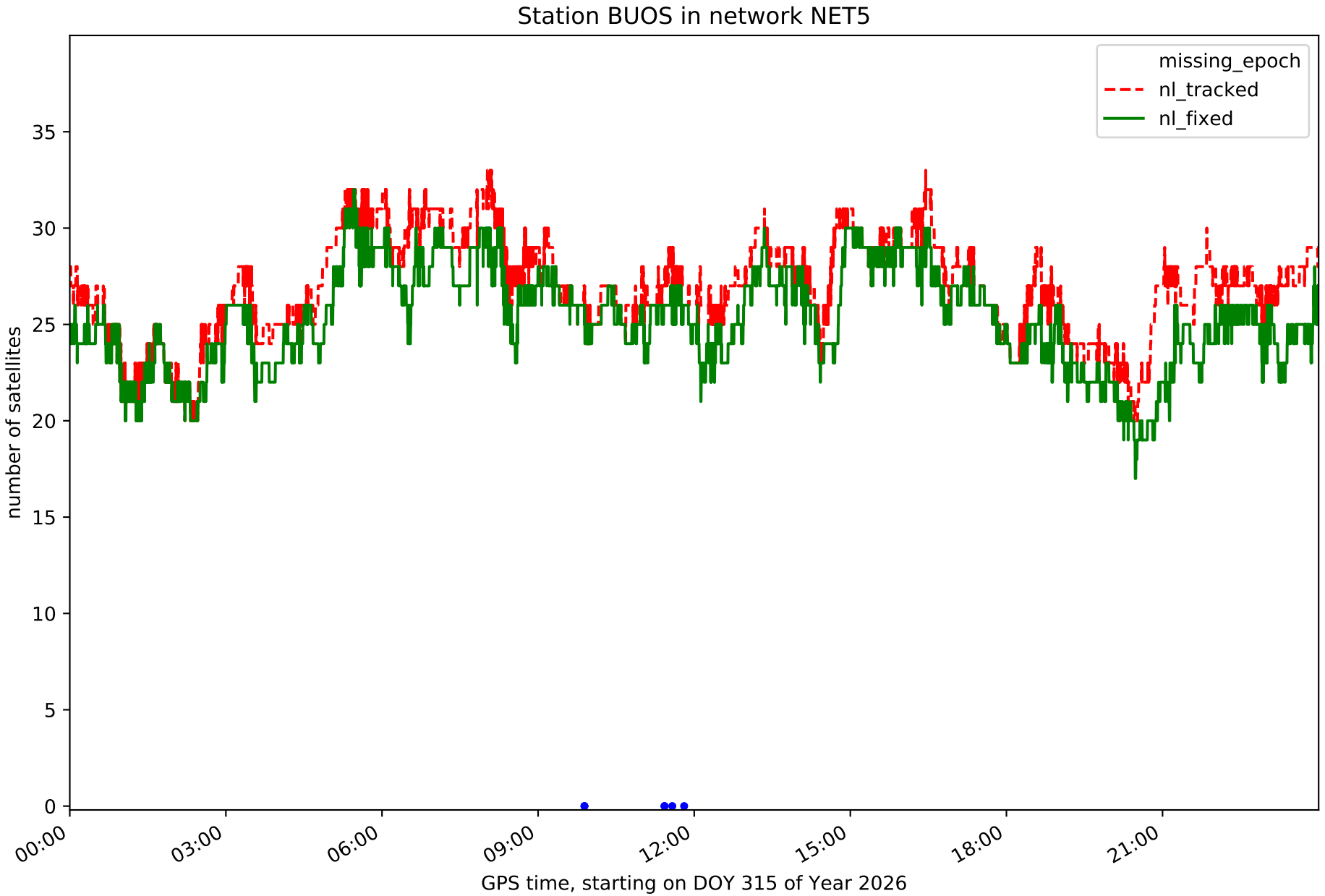

Network NET5 - only GPS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 315 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
l1_tracked
l1_fixed (95.3 % fixed)
l2_tracked
l2_fixed (95.3 % fixed)
l5_tracked
l5_fixed (95.8 % fixed)

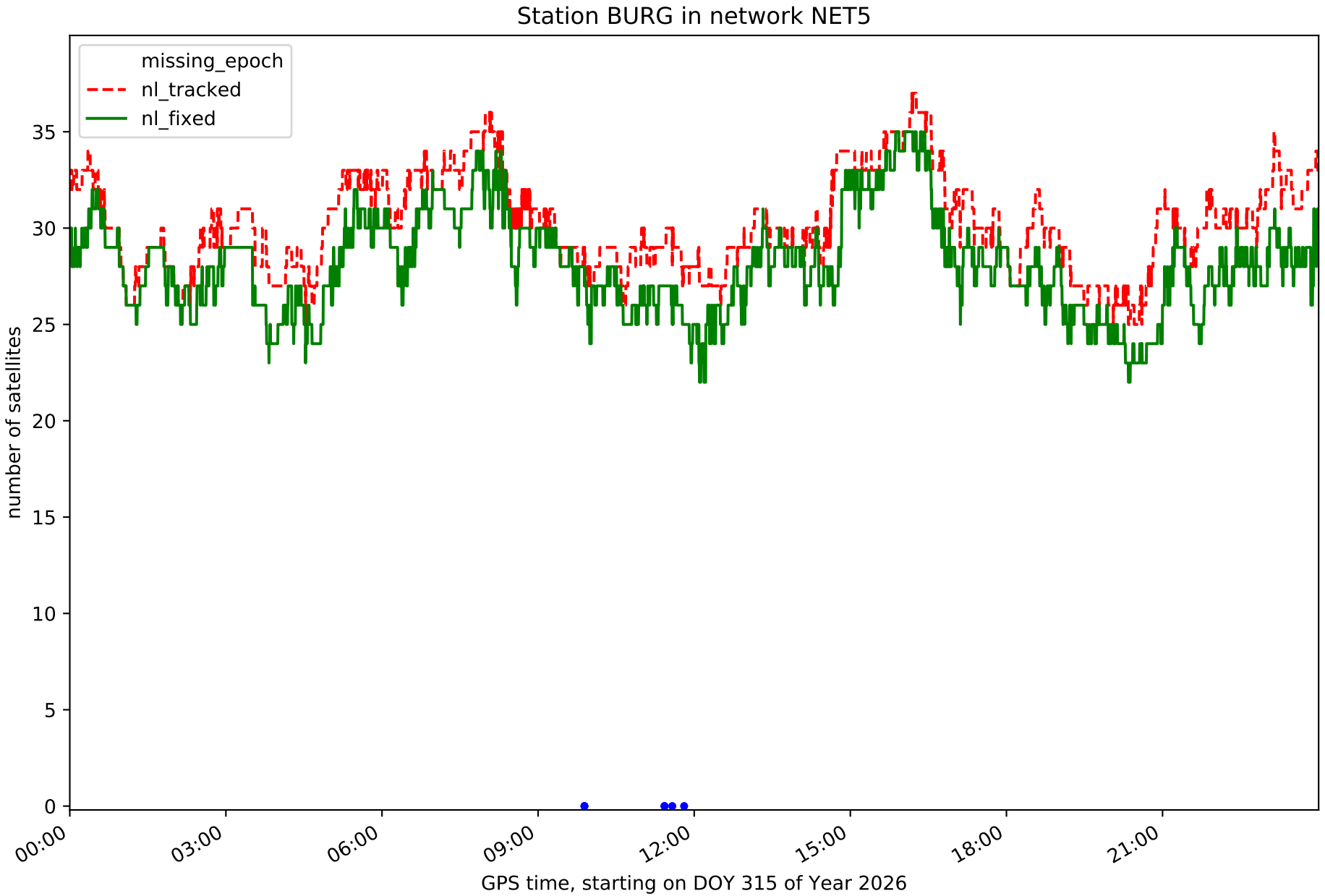

Network NET5 - only GLONASS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 315 of Year 2026
l1_tracked
l1_fixed (94.5 % fixed)
l2_tracked
l2_fixed (94.5 % fixed)
0
2
4
6
8
10
12
14
16
18
20
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00

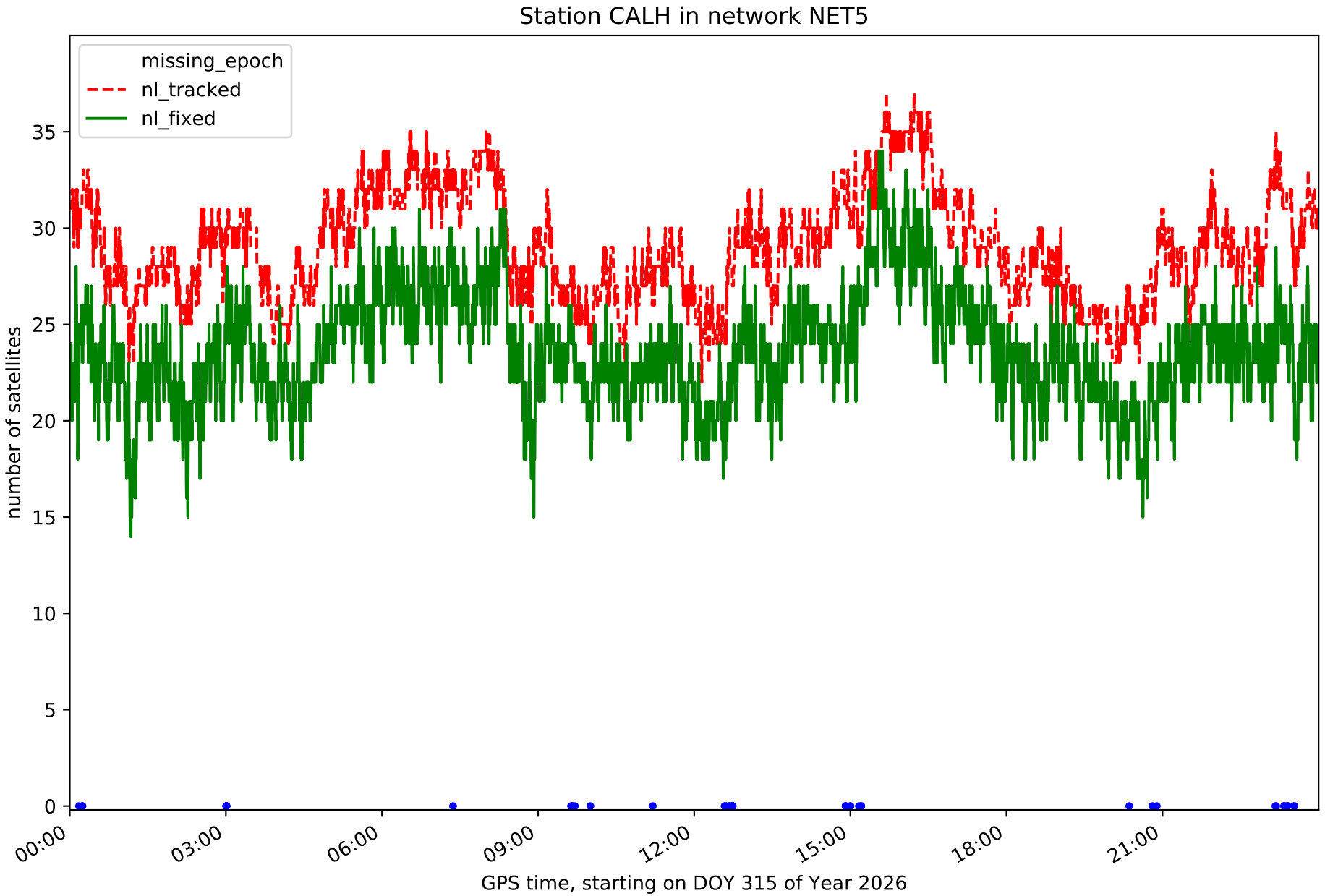

Network NET5 - only BDS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 315 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
I2_tracked
I2_fixed (92.2 % fixed)
I6_tracked
I6_fixed (92.3 % fixed)
I7_tracked
I7_fixed (0.0 % fixed)

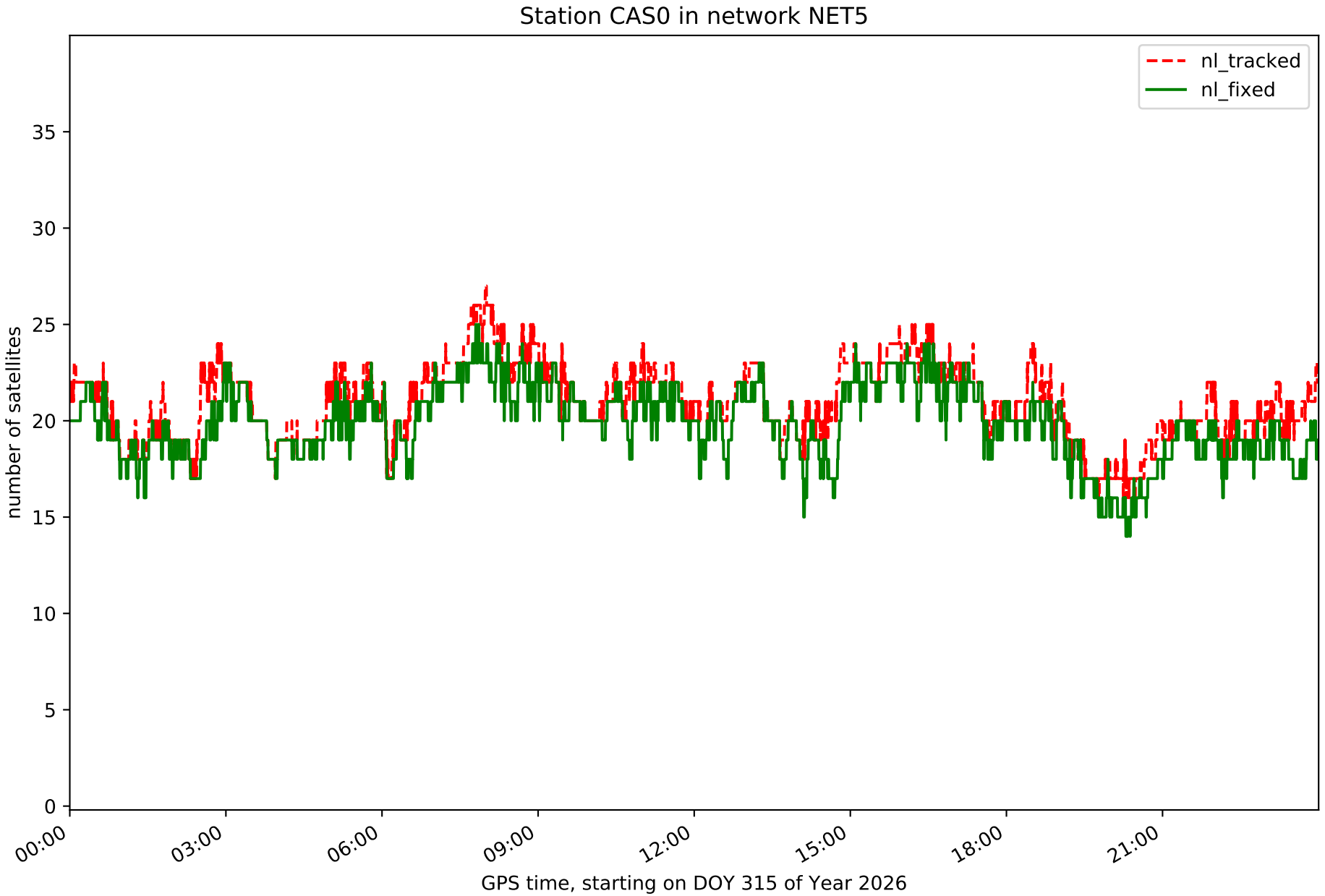

Network NET5 - only Galileo with threshold set to 0.3
number of satellites
GPS time, starting on DOY 315 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
l1_tracked
l1_fixed (95.8 % fixed)
l5_tracked
l5_fixed (95.9 % fixed)
l7_tracked
l7_fixed (95.9 % fixed)

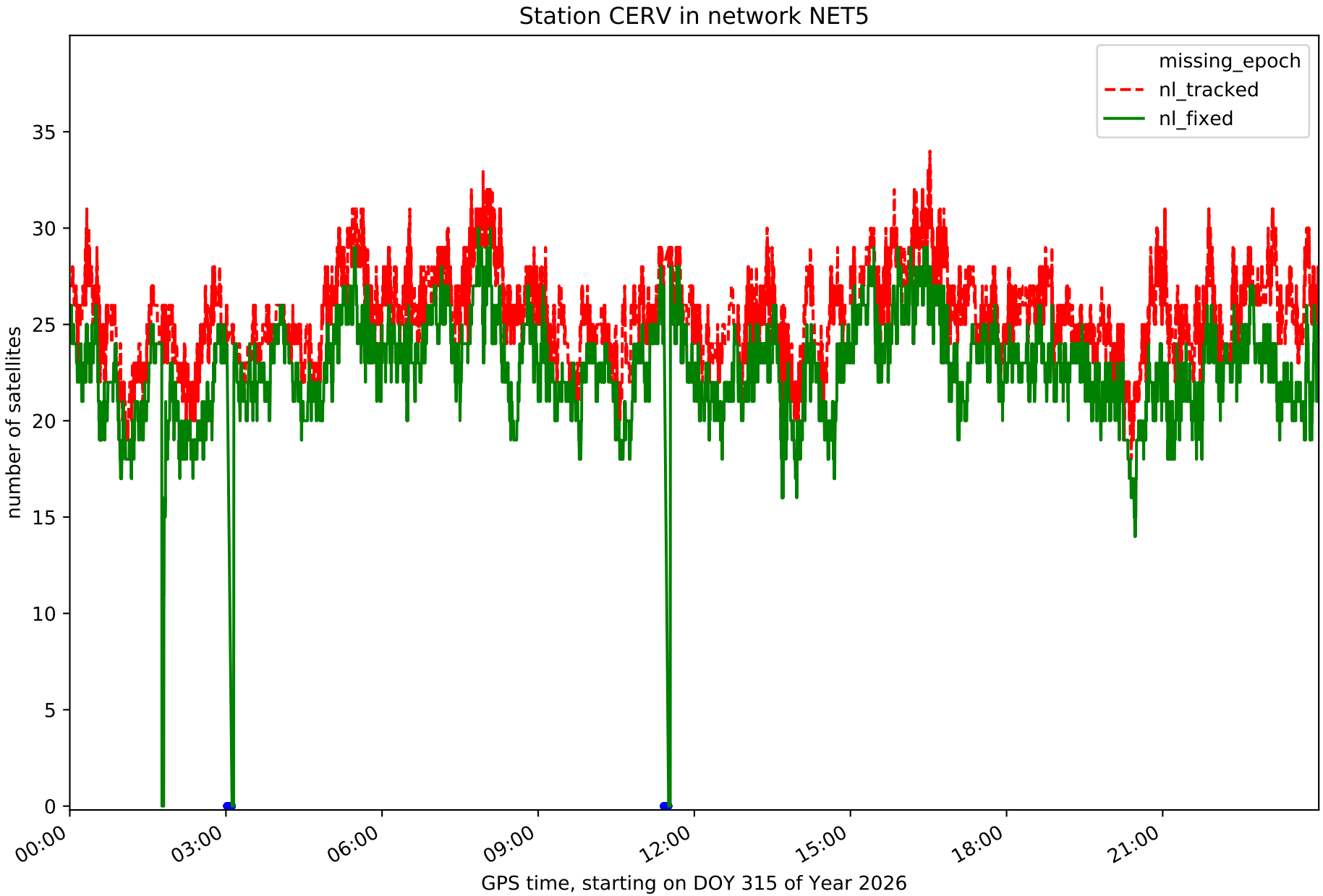

Station ARDU in network NET5
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

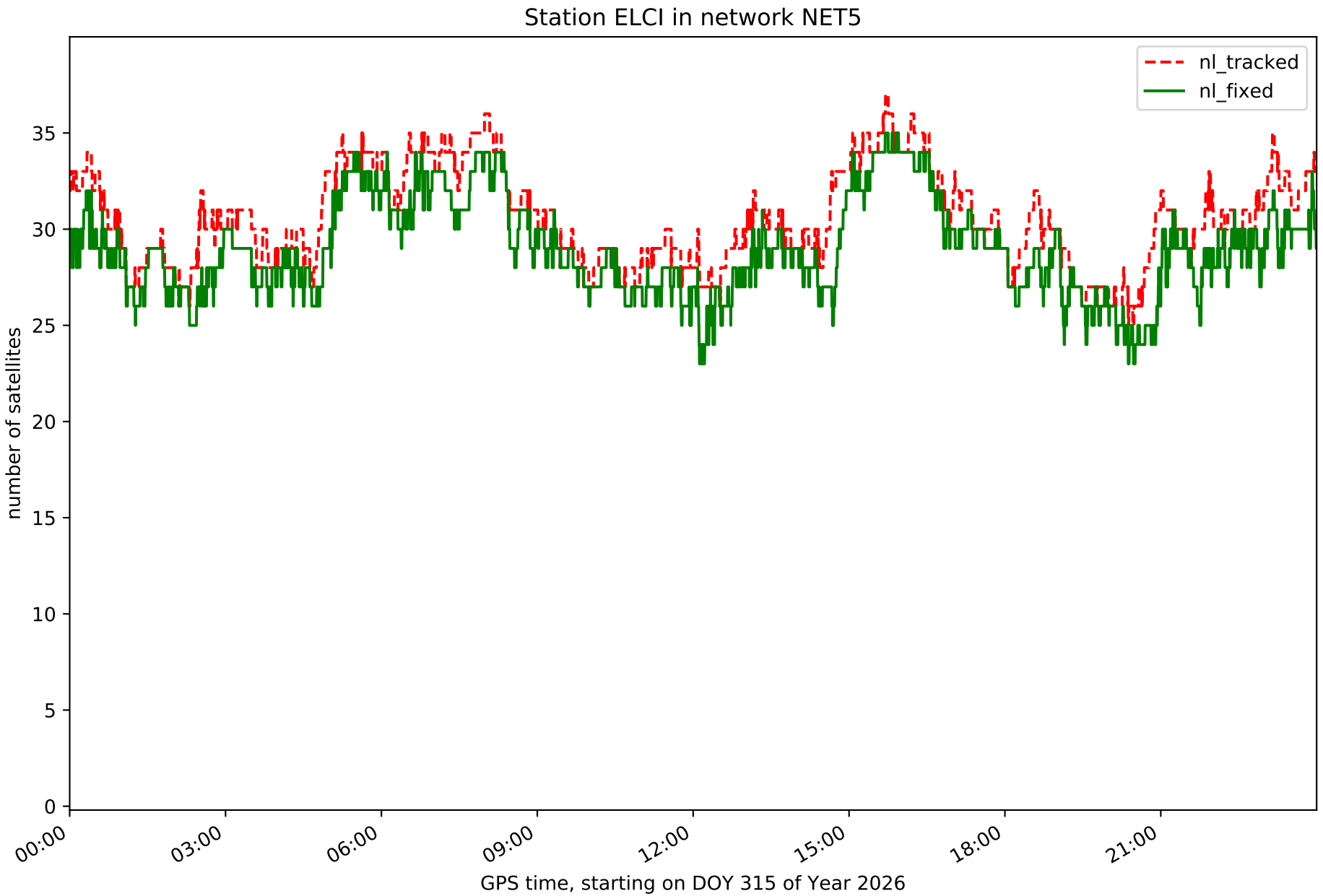

Station BUOS in network NET5
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

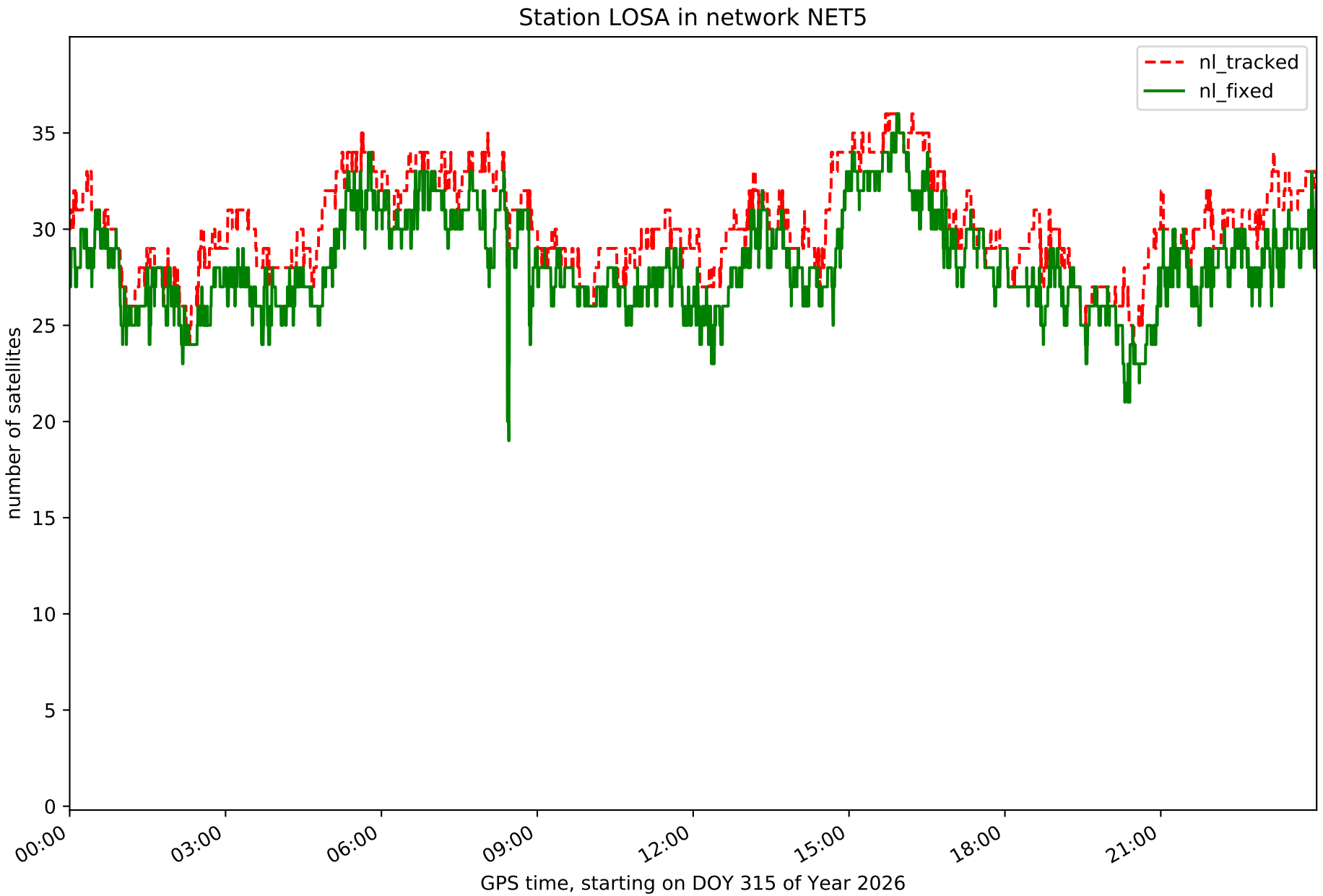

Station BURG in network NET5
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

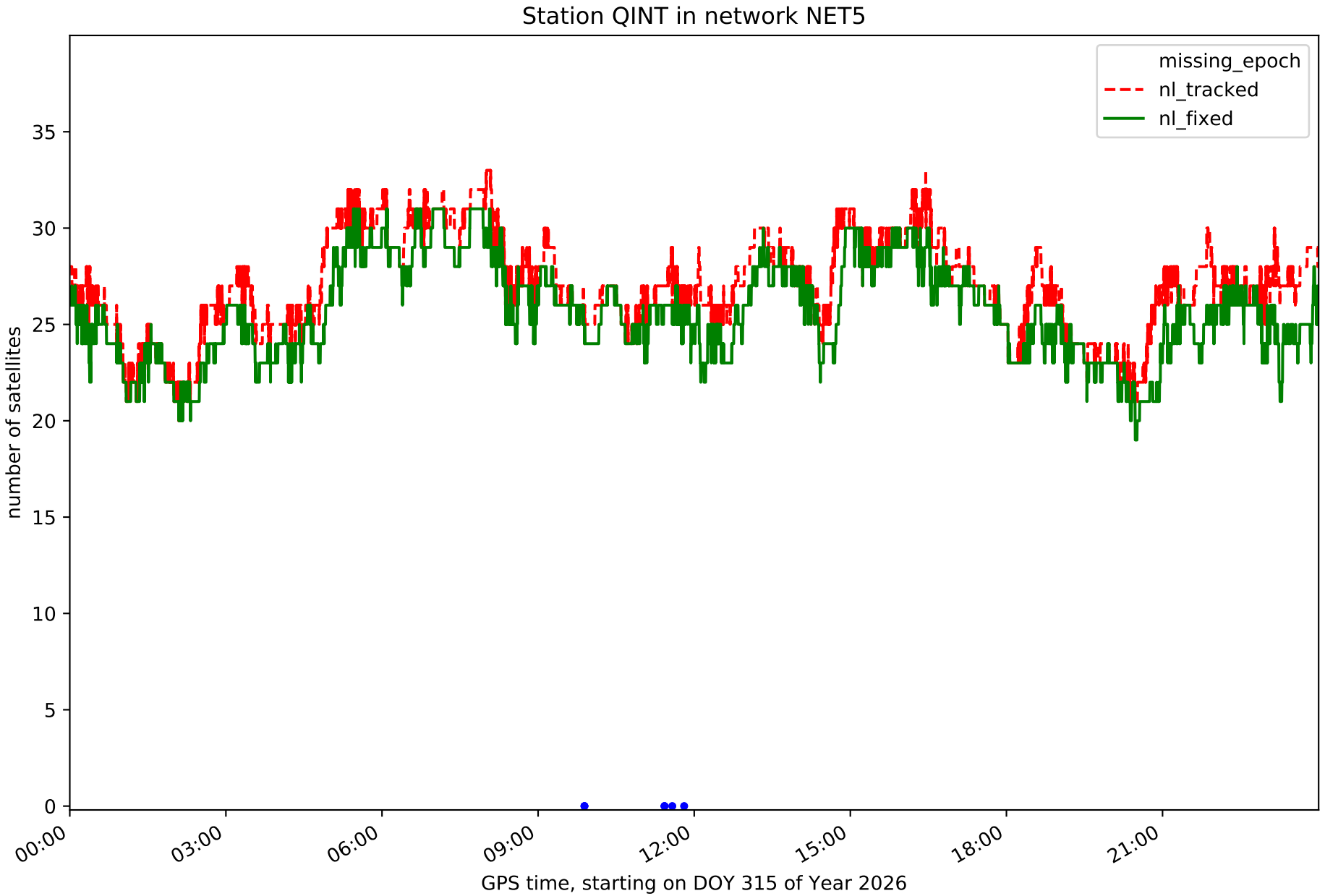

Station CALH in network NET5
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

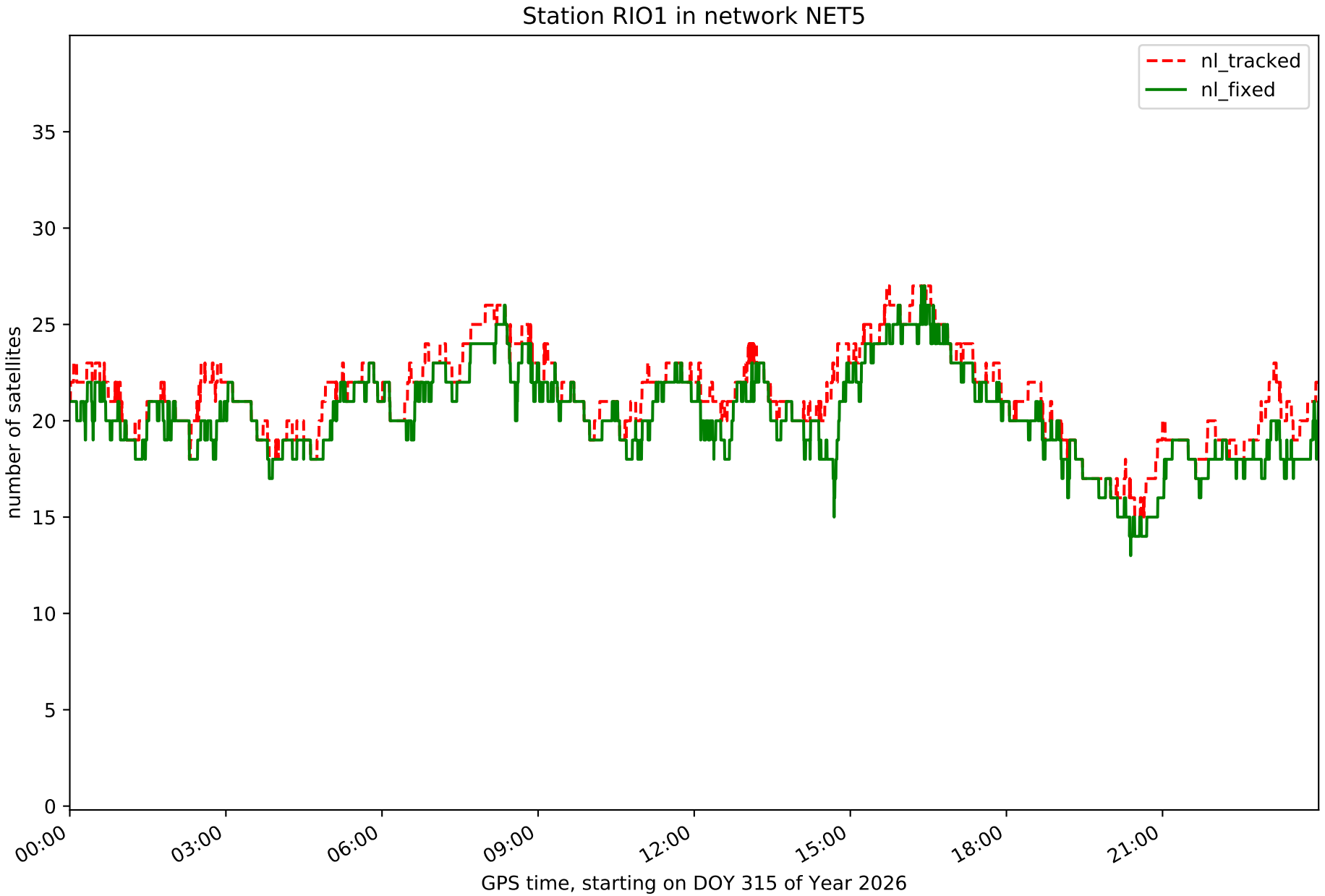

Station CAS0 in network NET5
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

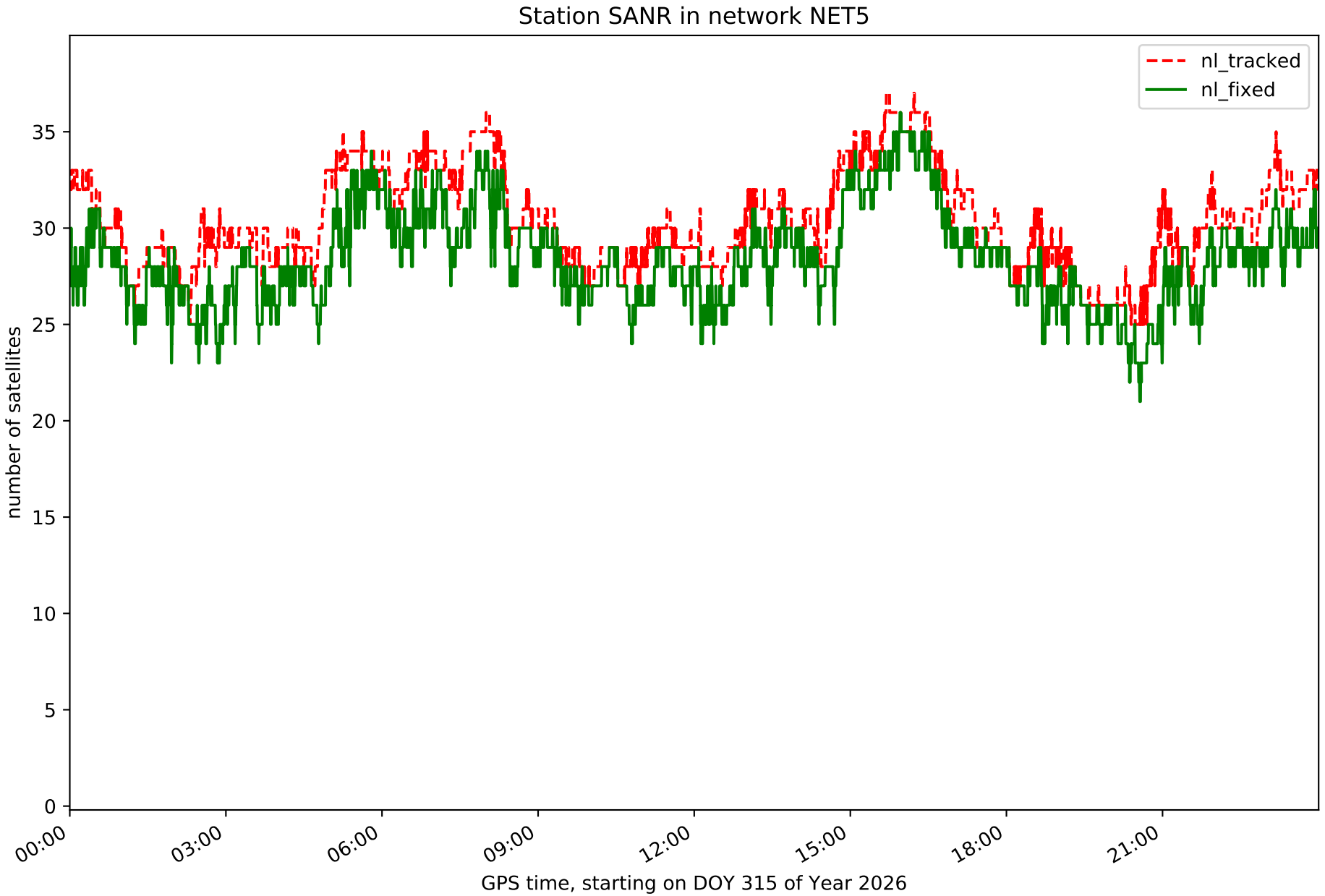

Station CERV in network NET5
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

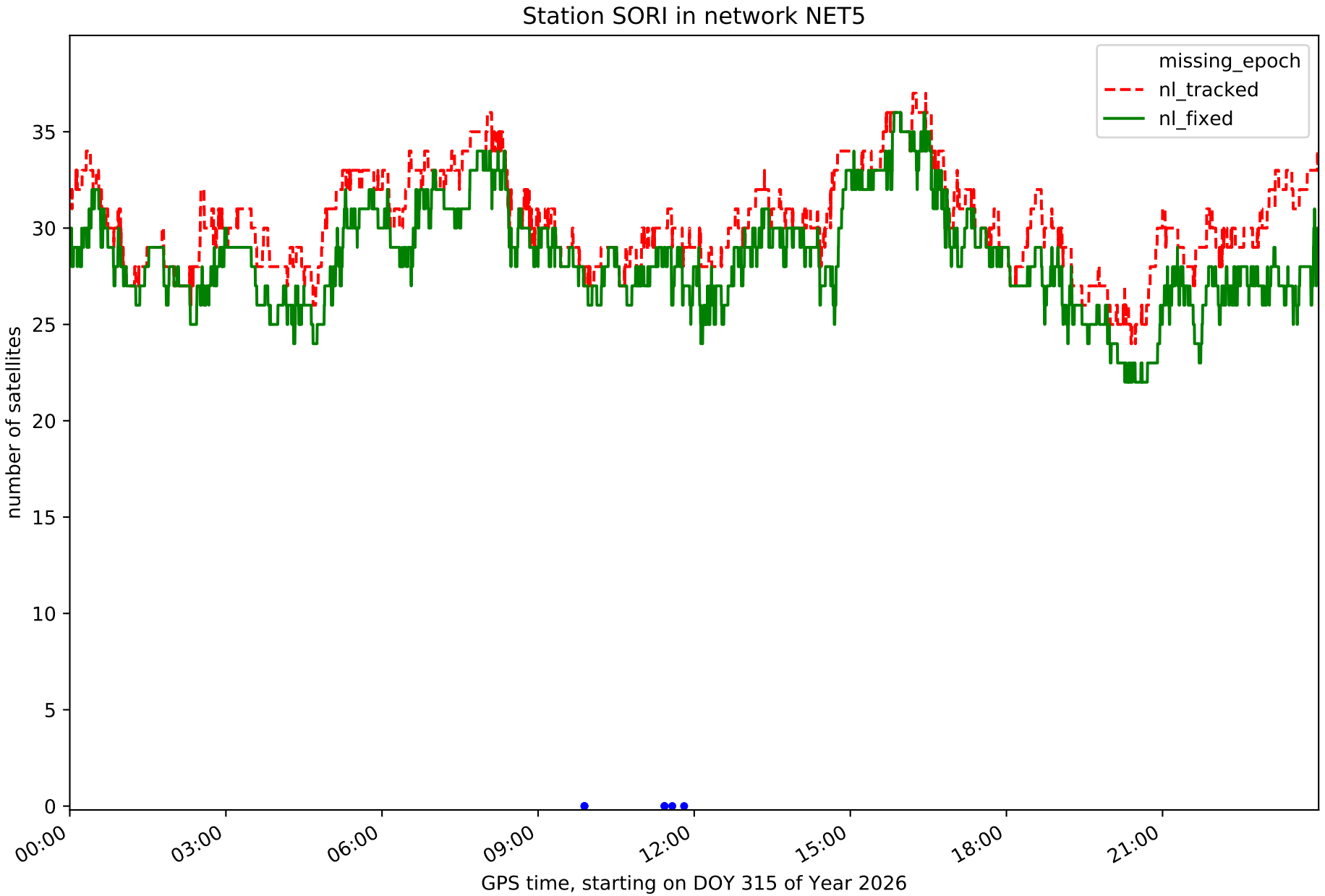

Station ELCI in network NET5
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

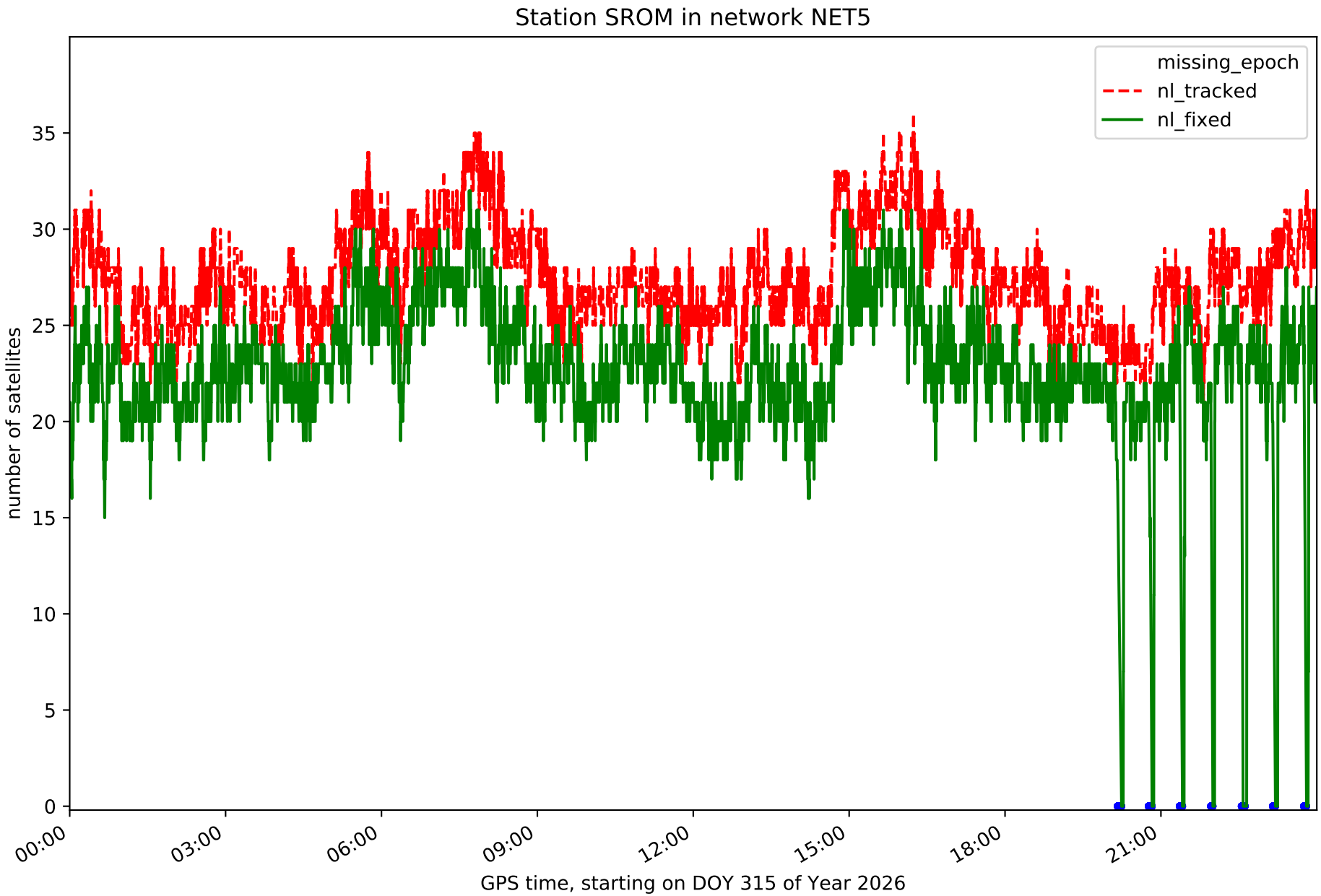

Station LOSA in network NET5
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

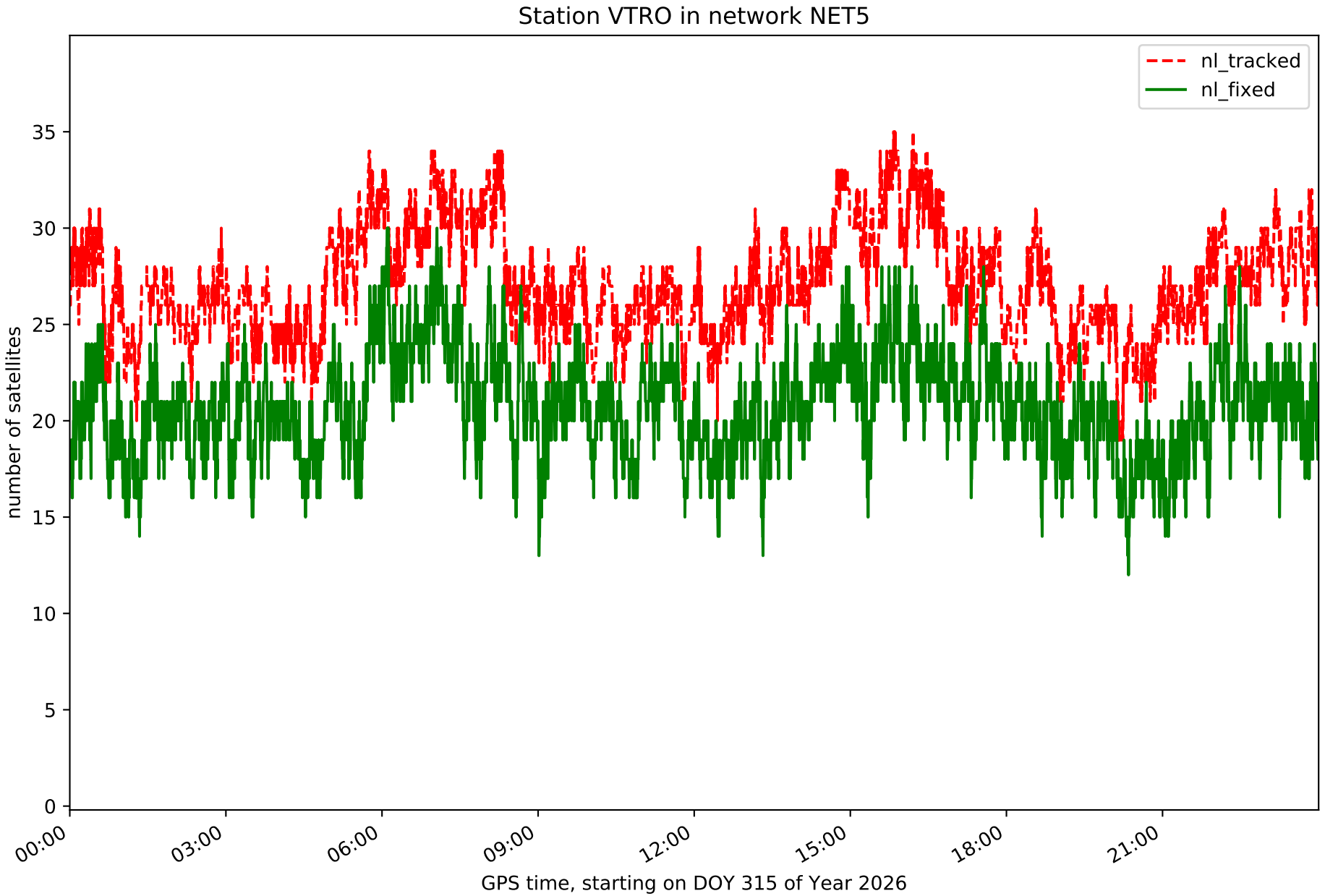

Station QINT in network NET5
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

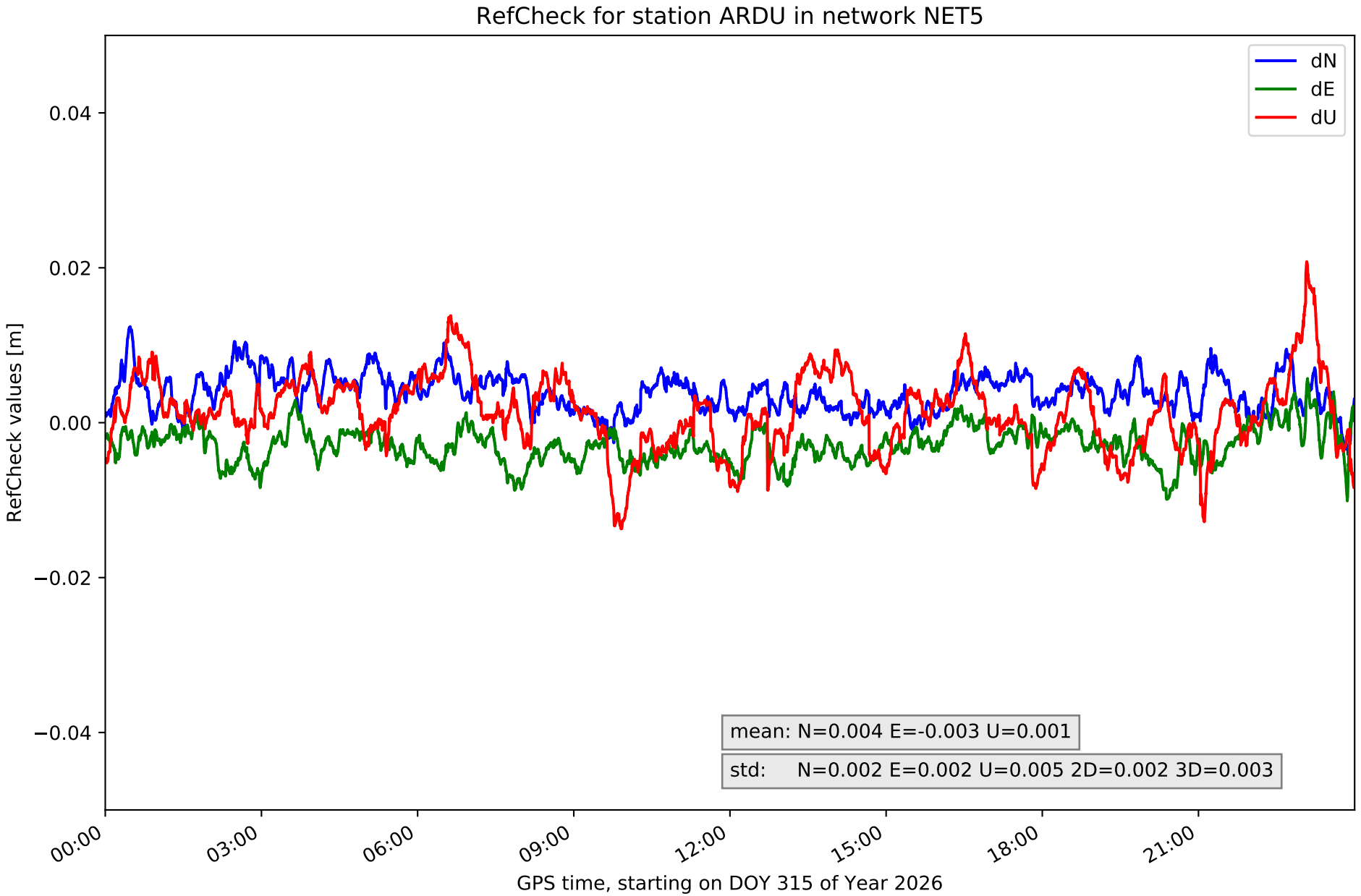

Station RIO1 in network NET5
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

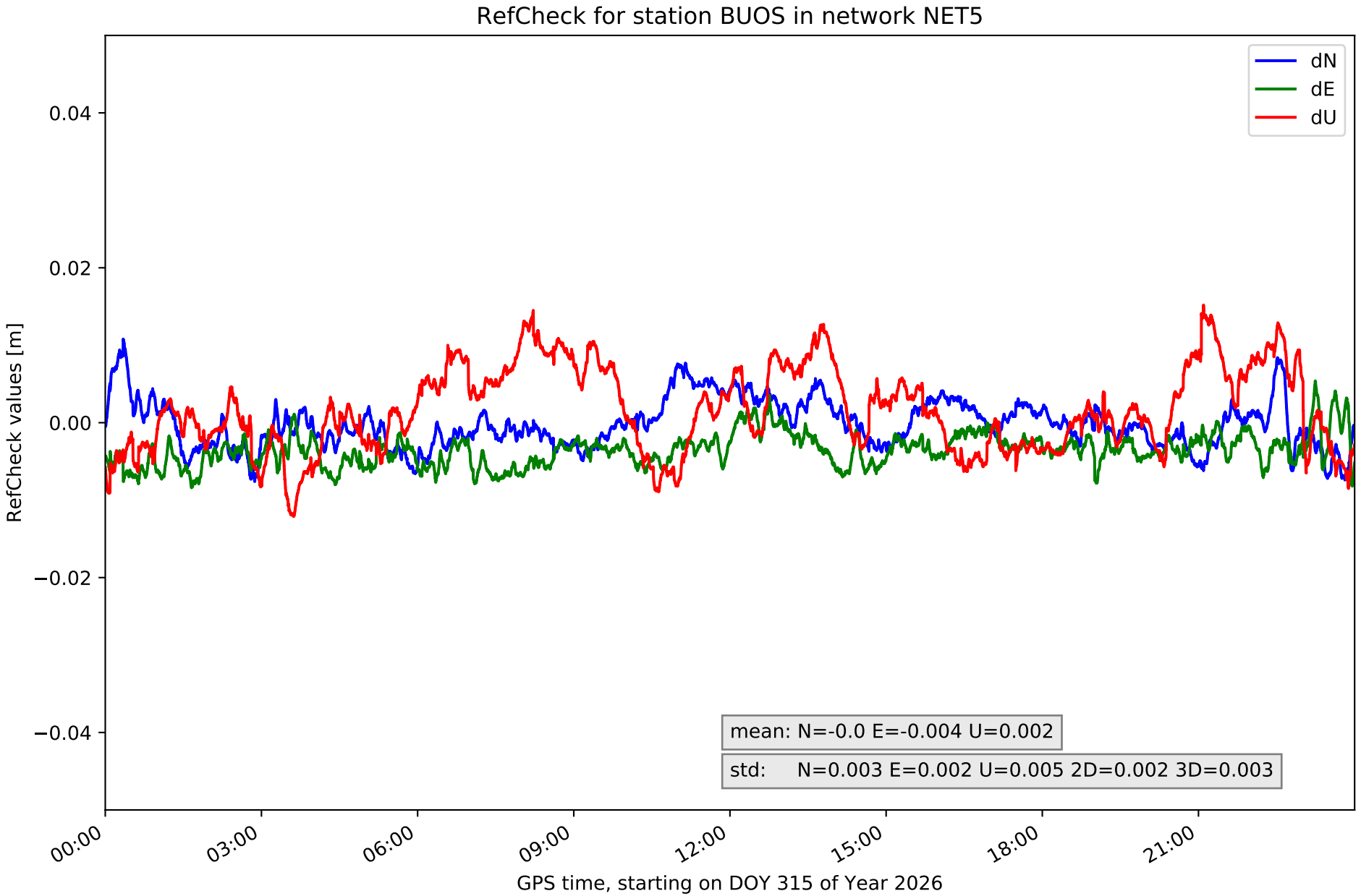

Station SANR in network NET5
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

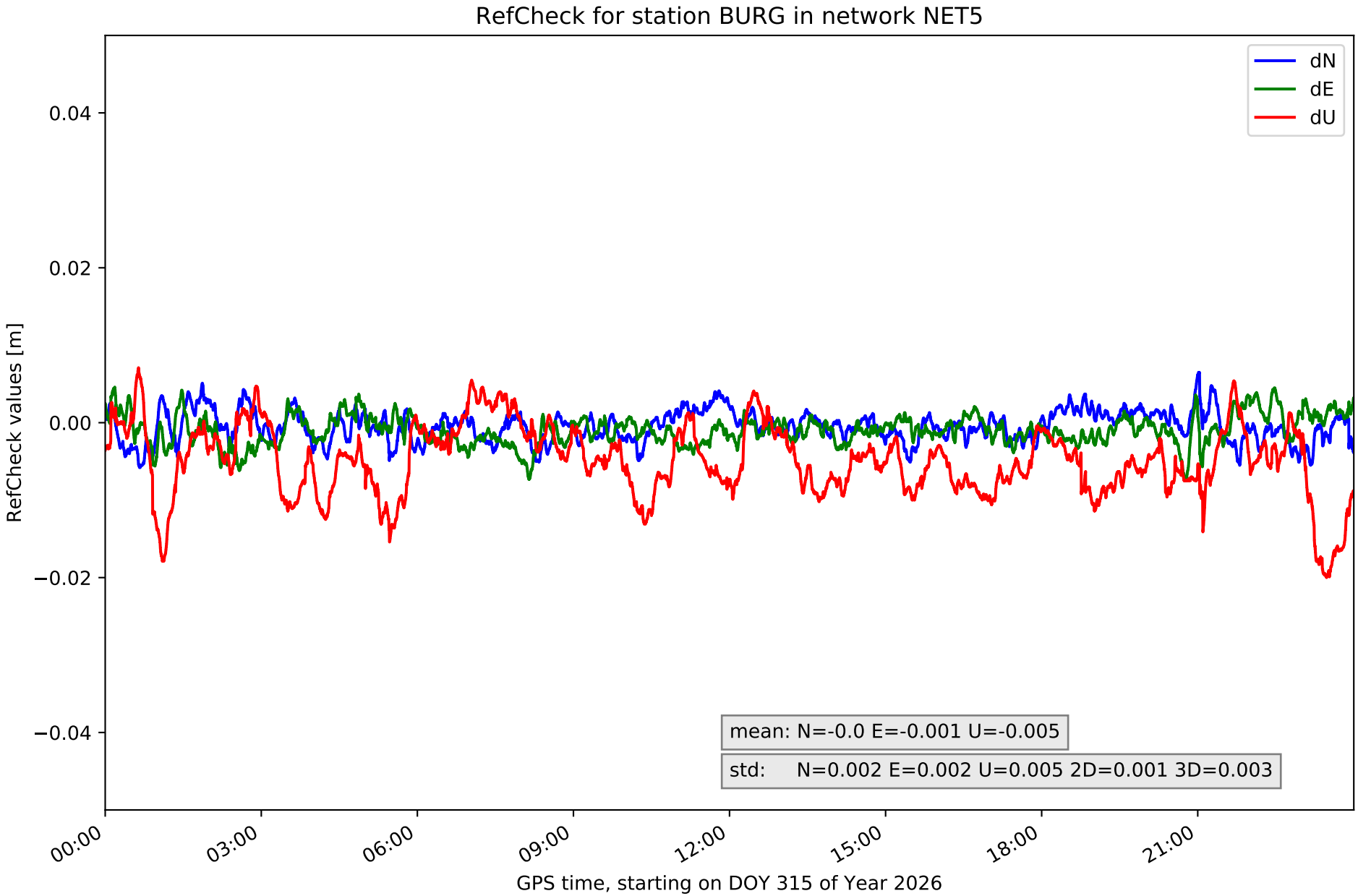

Station SORI in network NET5
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

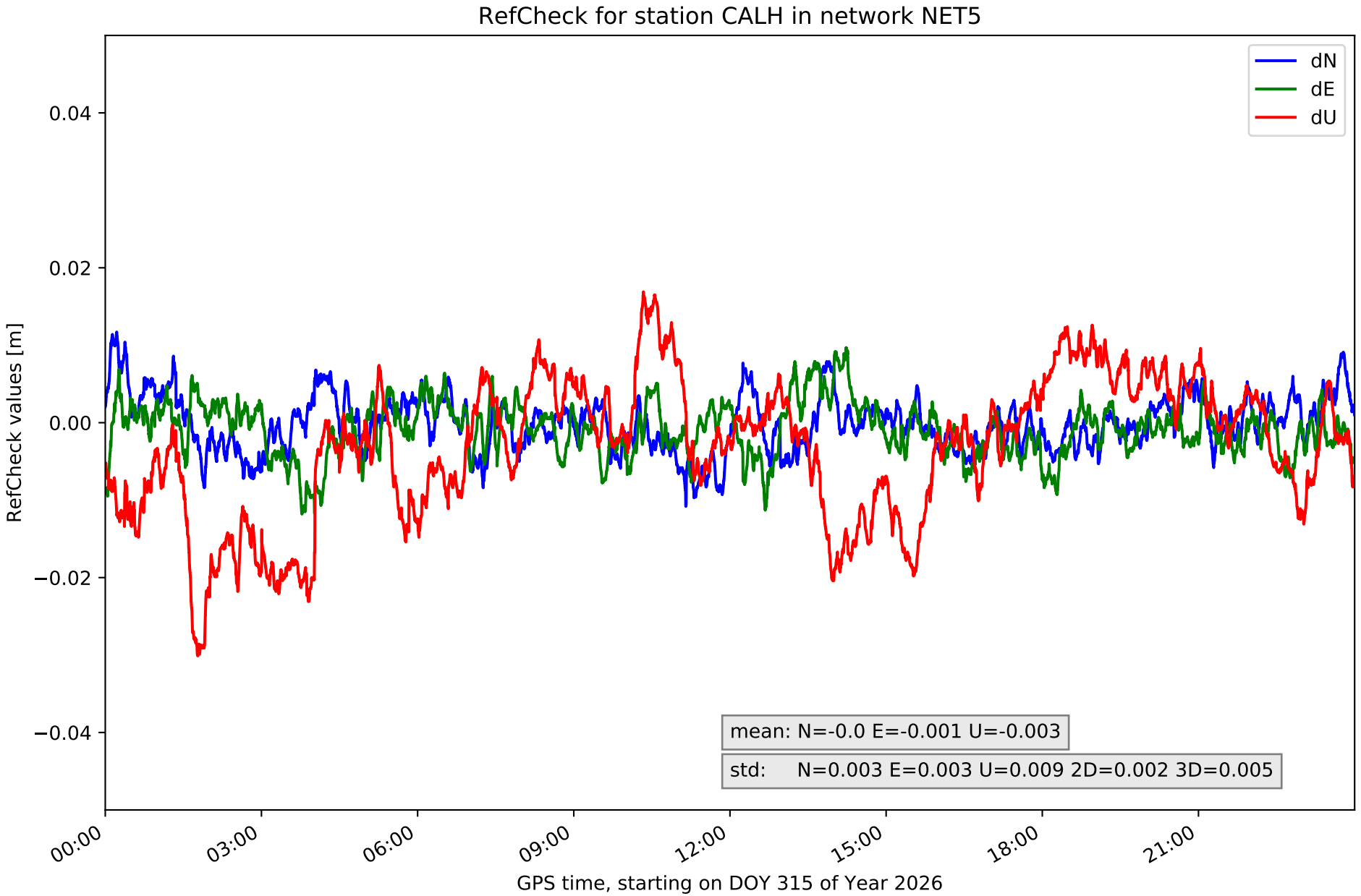

Station SROM in network NET5
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

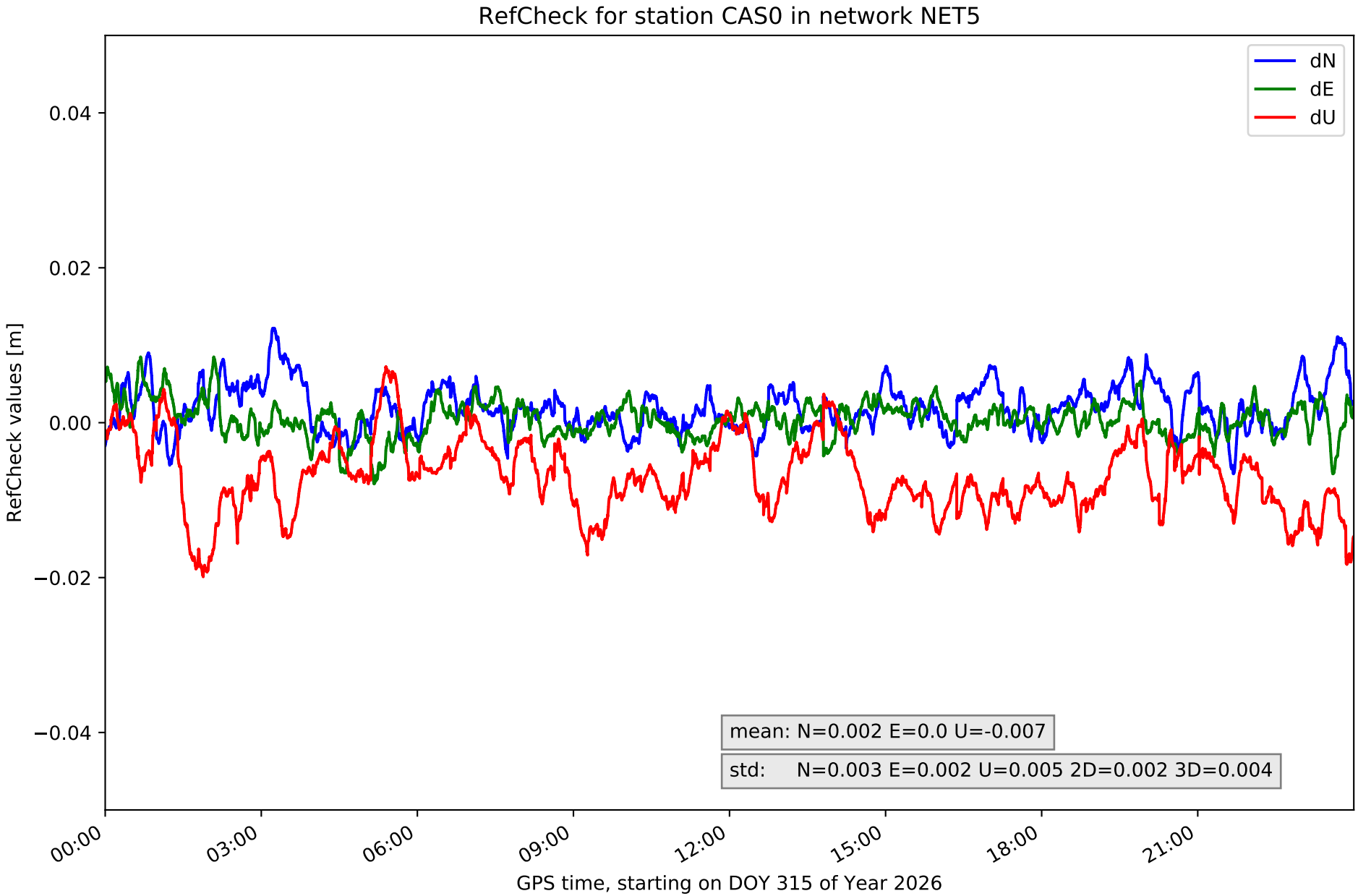

Station VTRO in network NET5
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

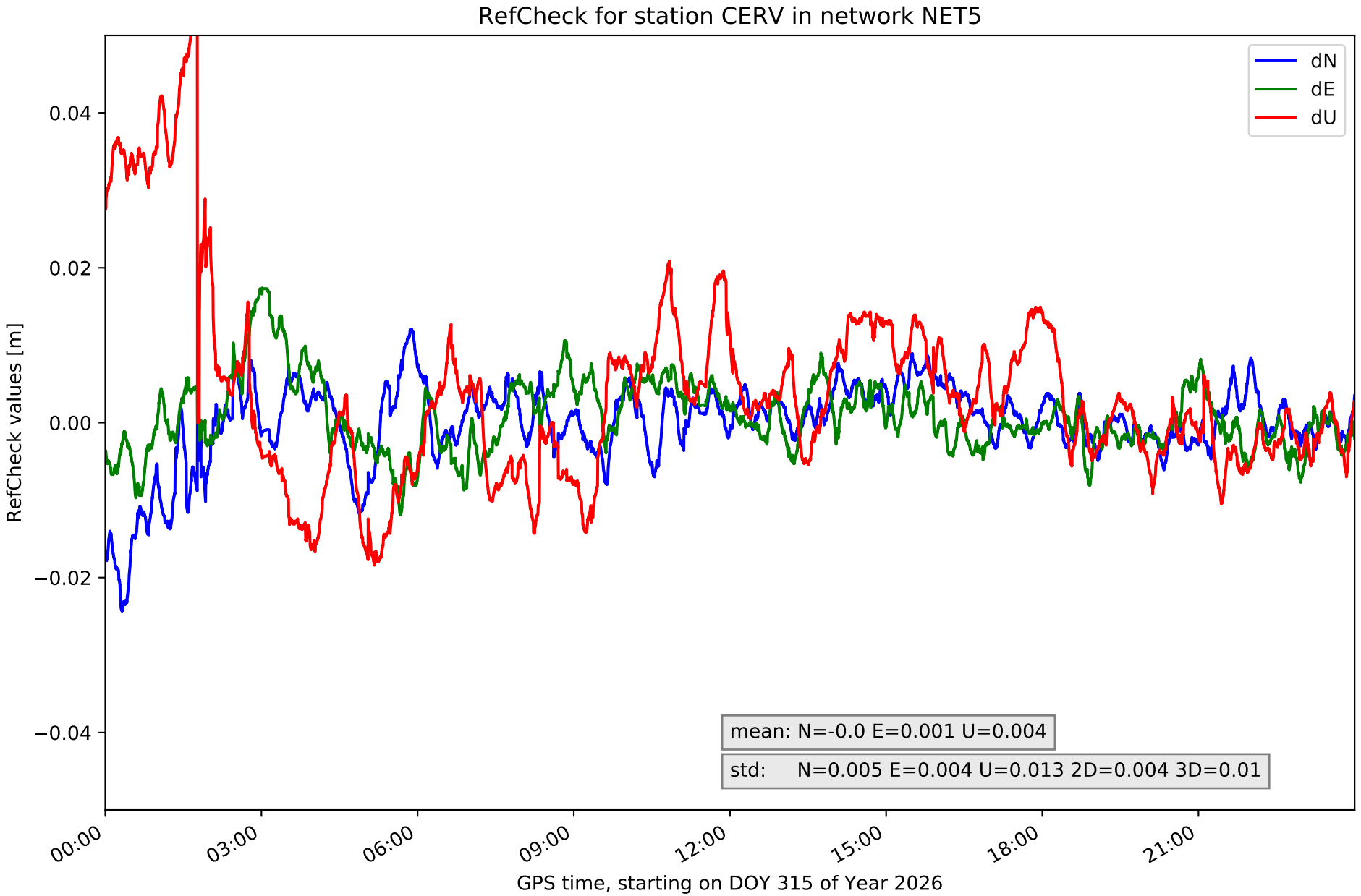

RefCheck for station ARDU in network NET5
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.004 E=-0.003 U=0.001
std: N=0.002 E=0.002 U=0.005 2D=0.002 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

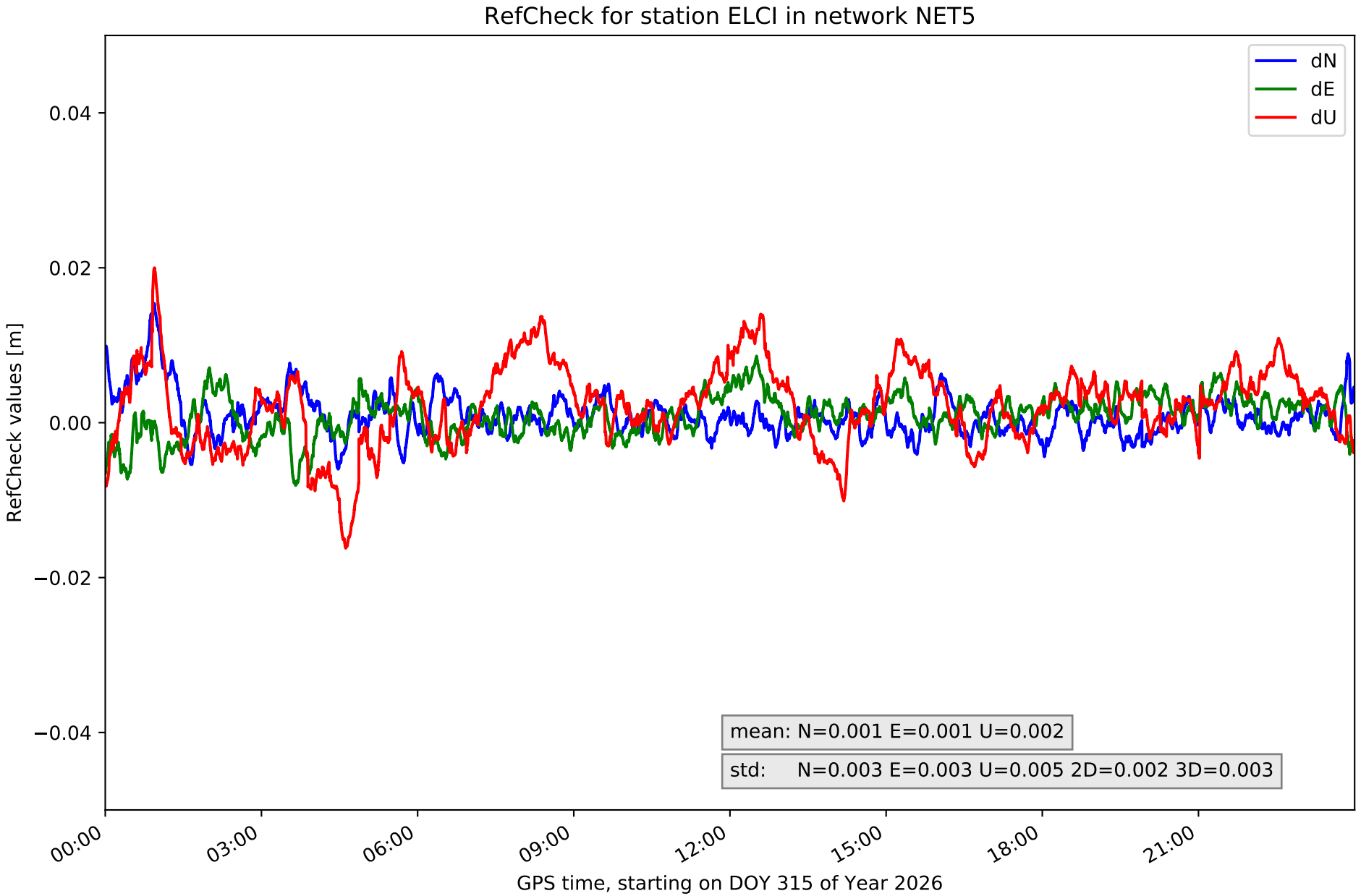

RefCheck for station BUOS in network NET5
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.0 E=-0.004 U=0.002
std: N=0.003 E=0.002 U=0.005 2D=0.002 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

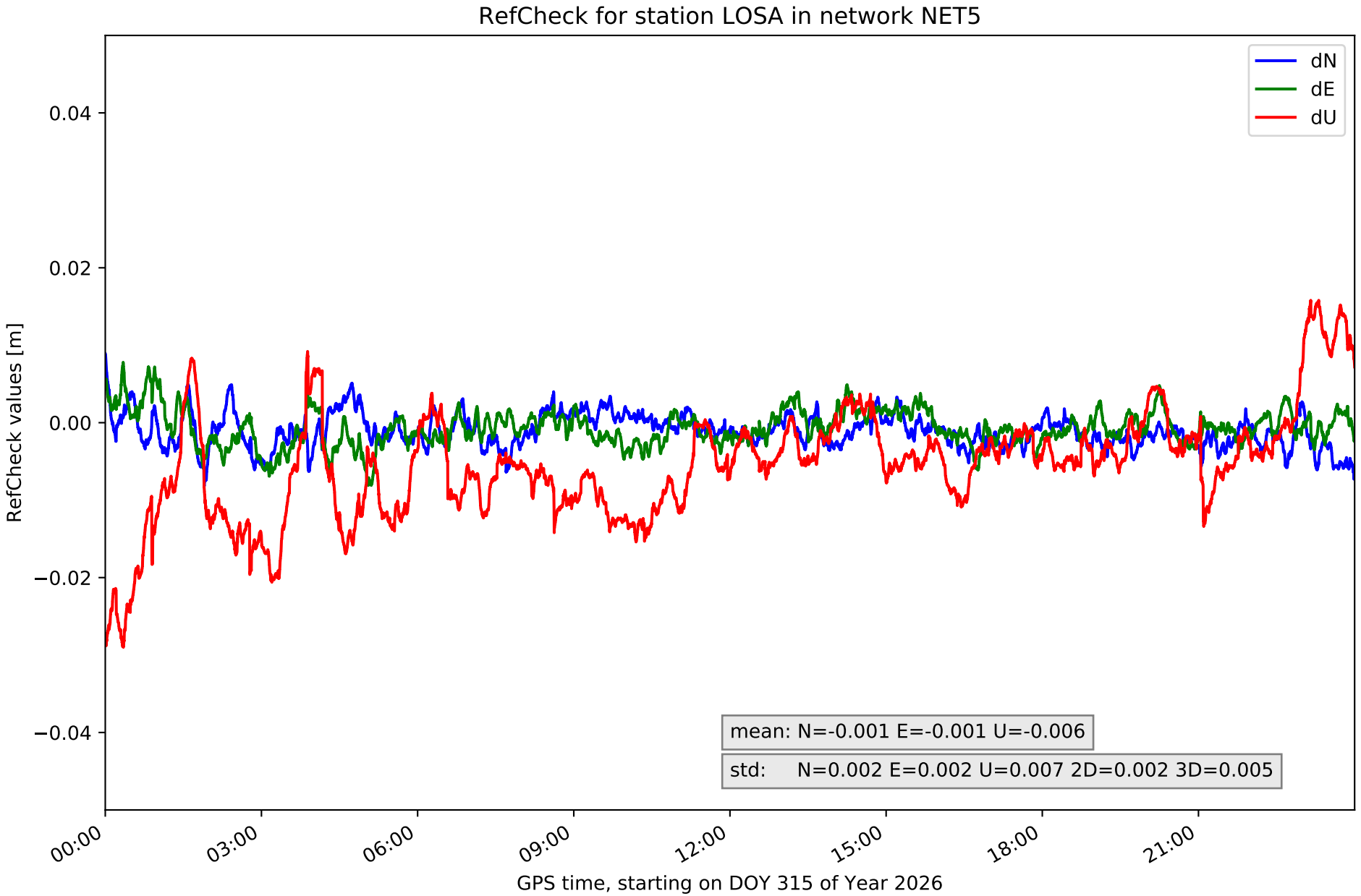

RefCheck for station BURG in network NET5
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.0 E=-0.001 U=-0.005
std: N=0.002 E=0.002 U=0.005 2D=0.001 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

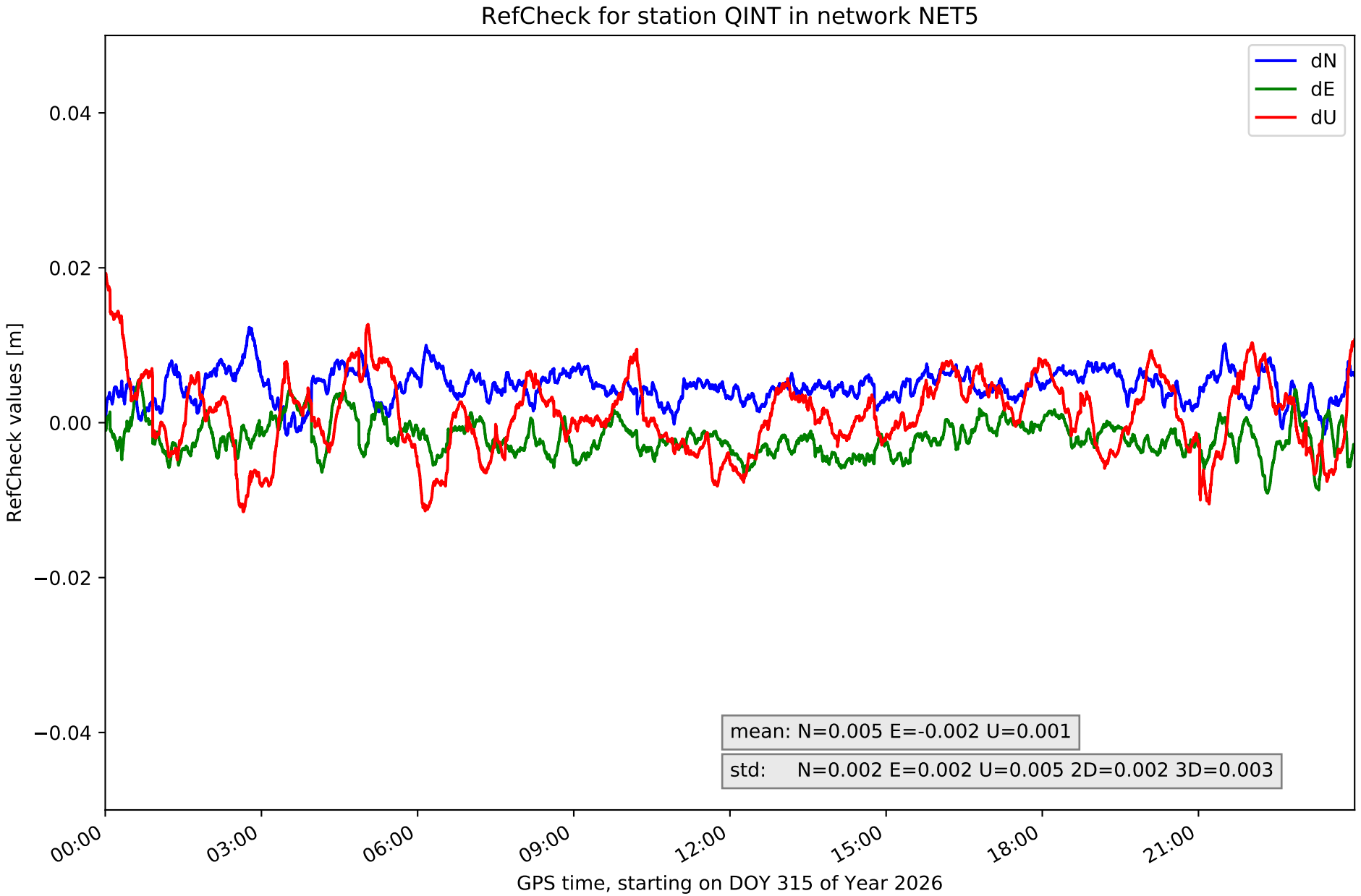

RefCheck for station CALH in network NET5
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.0 E=-0.001 U=-0.003
std: N=0.003 E=0.003 U=0.009 2D=0.002 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

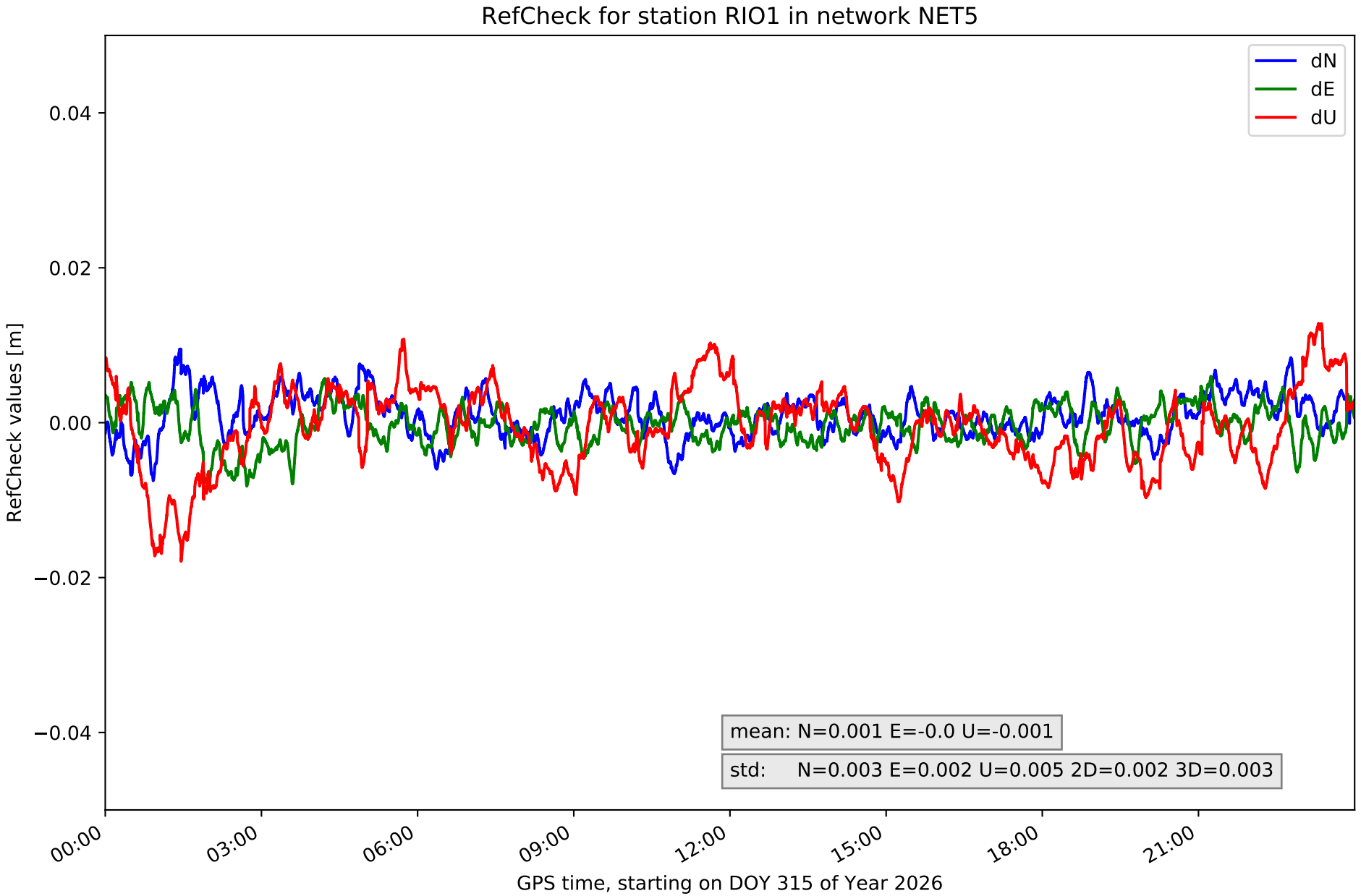

RefCheck for station CAS0 in network NET5
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.002 E=0.0 U=-0.007
std: N=0.003 E=0.002 U=0.005 2D=0.002 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

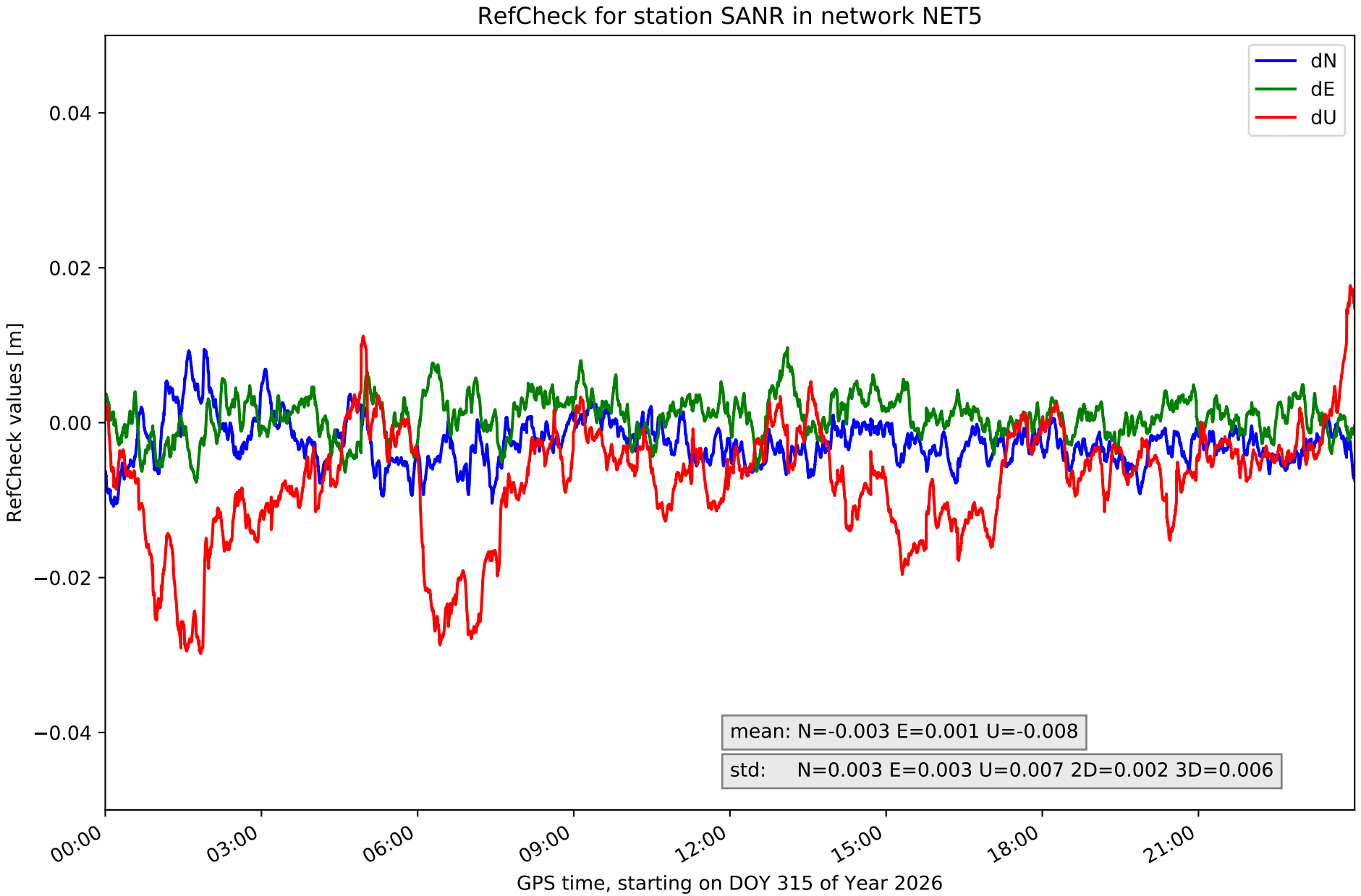

RefCheck for station CERV in network NET5
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.0 E=0.001 U=0.004
std: N=0.005 E=0.004 U=0.013 2D=0.004 3D=0.01
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

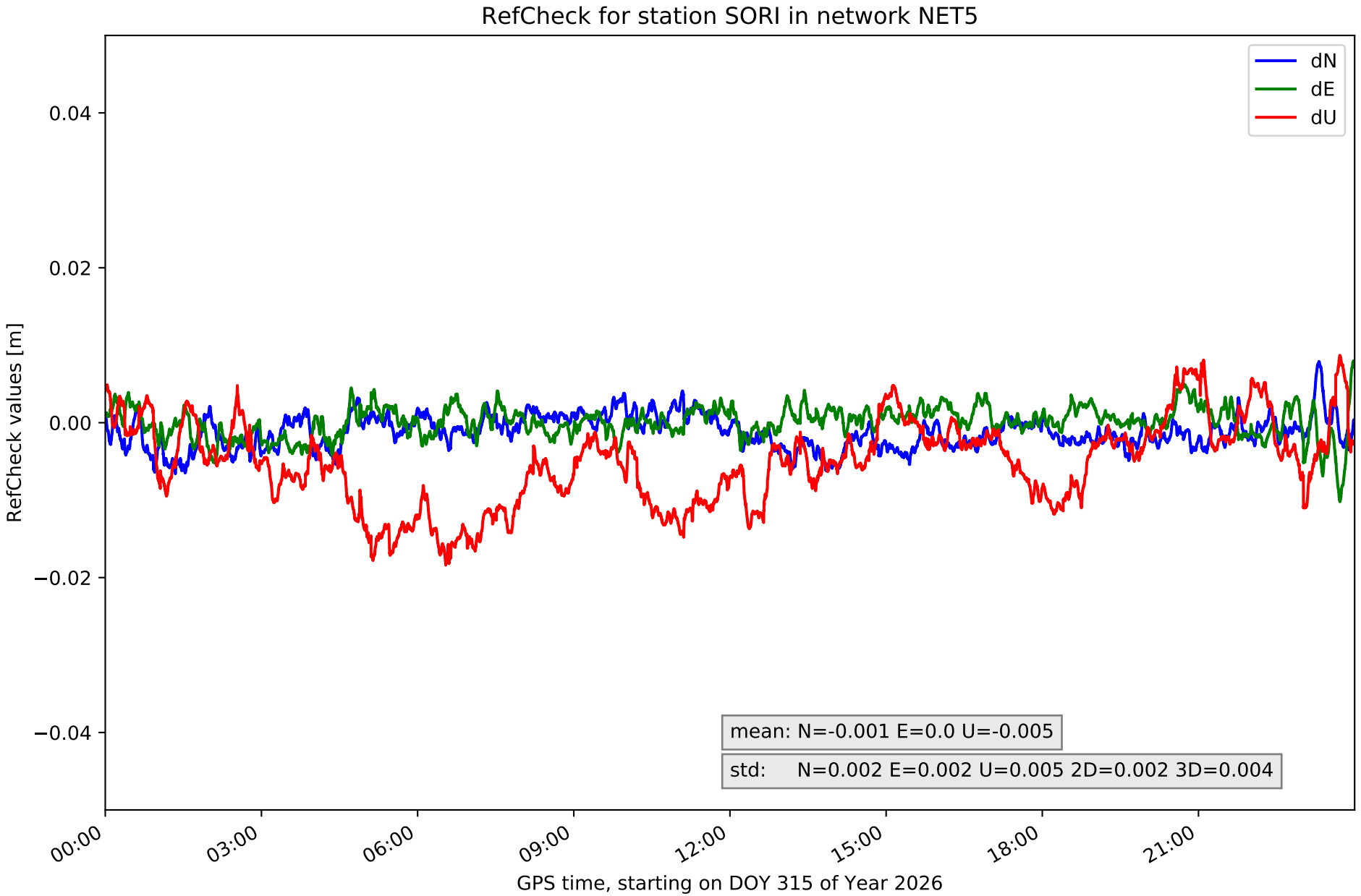

RefCheck for station ELCI in network NET5
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=0.001 U=0.002
std: N=0.003 E=0.003 U=0.005 2D=0.002 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

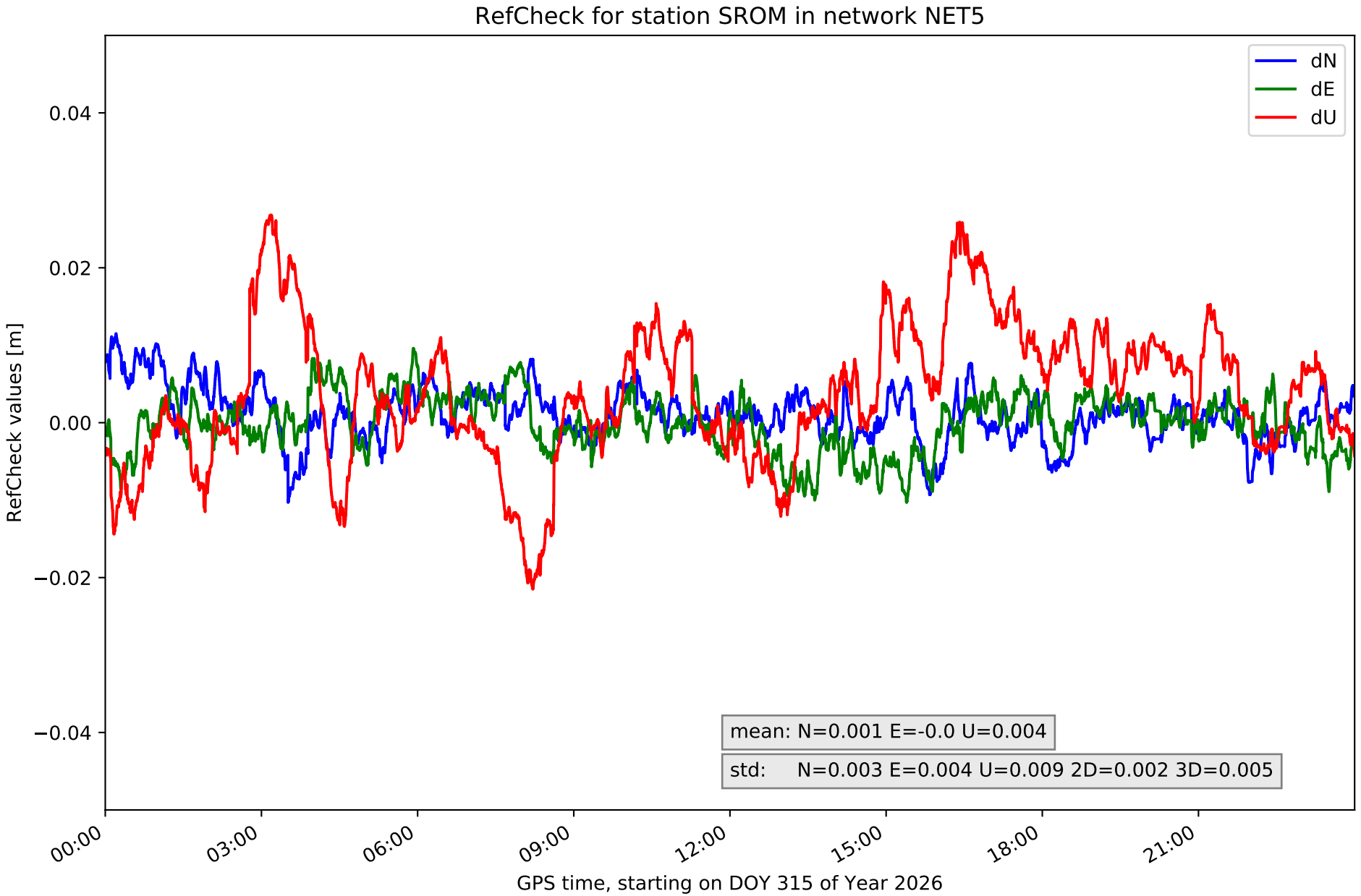

RefCheck for station LOSA in network NET5
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.001 U=-0.006
std: N=0.002 E=0.002 U=0.007 2D=0.002 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026

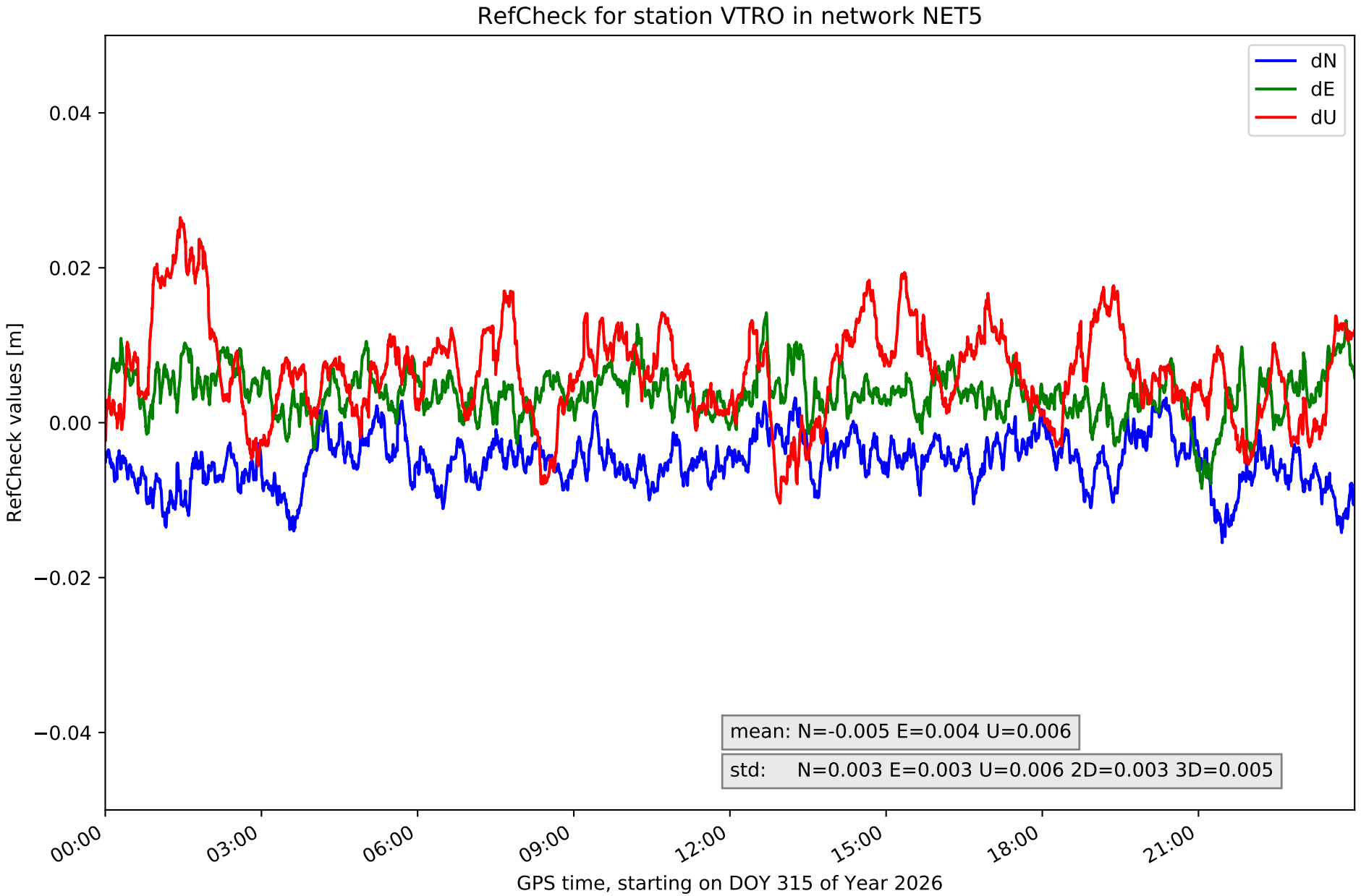

RefCheck for station QINT in network NET5
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.005 E=-0.002 U=0.001
std: N=0.002 E=0.002 U=0.005 2D=0.002 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 315 of Year 2026


RefCheck for station RIO1 in network NET5
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=0.002 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 315 of Year 2026


RefCheck for station SANR in network NET5
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.003 E=0.001 U=-0.008
std: N=0.003 E=0.003 U=0.007 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 315 of Year 2026


RefCheck for station SORI in network NET5
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=0.0 U=-0.005
std: N=0.002 E=0.002 U=0.005 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 315 of Year 2026


RefCheck for station SROM in network NET5
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=-0.0 U=0.004
std: N=0.003 E=0.004 U=0.009 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 315 of Year 2026


RefCheck for station VTRO in network NET5
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.005 E=0.004 U=0.006
std: N=0.003 E=0.003 U=0.006 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 315 of Year 2026

# RefCheck values for network NET5

| Station | Nmin | Nmax | Nstd | Emin | Emax | Estd | Umin | Umax | Ustd | std2D | std3D | #2D > 0.01 | % 2D > 0.01 | #3D > 0.02 | % 3D > 0.02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARDU | -0.004 | 0.012 | 0.002 | -0.01 | 0.006 | 0.002 | -0.014 | 0.021 | 0.005 | 0.002 | 0.003 | 2432 | 3.1 | 134 | 0.2 |
| BUOS | -0.008 | 0.011 | 0.003 | -0.008 | 0.005 | 0.002 | -0.012 | 0.015 | 0.005 | 0.002 | 0.003 | 280 | 0.4 | 0 | 0.0 |
| BURG | -0.006 | 0.006 | 0.002 | -0.007 | 0.005 | 0.002 | -0.02 | 0.007 | 0.005 | 0.001 | 0.003 | 0 | 0.0 | 67 | 0.1 |
| CALH | -0.011 | 0.012 | 0.003 | **-0.012** | 0.01 | 0.003 | **-0.03** | 0.017 | 0.009 | 0.002 | 0.005 | 1942 | 2.5 | 4560 | 5.8 |
| CAS0 | -0.007 | 0.012 | 0.003 | -0.008 | 0.009 | 0.002 | -0.02 | 0.007 | 0.005 | 0.002 | 0.004 | 1239 | 1.6 | 150 | 0.2 |
| CERV | **-0.024** | 0.012 | **0.005** | **-0.012** | **0.017** | **0.004** | -0.018 | **0.06** | **0.013** | **0.004** | **0.01** | 9085 | 11.5 | **7034** | **8.9** |
| ELCI | -0.006 | **0.015** | 0.003 | -0.008 | 0.009 | 0.003 | -0.016 | 0.02 | 0.005 | 0.002 | 0.003 | 1156 | 1.5 | 327 | 0.4 |
| LOSA | -0.008 | 0.009 | 0.002 | -0.008 | 0.008 | 0.002 | -0.029 | 0.016 | 0.007 | 0.002 | 0.005 | 33 | 0.0 | 2502 | 3.2 |
| QINT | -0.002 | 0.012 | 0.002 | -0.009 | 0.006 | 0.002 | -0.011 | 0.019 | 0.005 | 0.002 | 0.003 | 1092 | 1.4 | 0 | 0.0 |
| RIO1 | -0.007 | 0.009 | 0.003 | -0.009 | 0.006 | 0.002 | -0.018 | 0.013 | 0.005 | 0.002 | 0.003 | 0 | 0.0 | 0 | 0.0 |
| SANR | -0.011 | 0.009 | 0.003 | -0.008 | 0.01 | 0.003 | **-0.03** | 0.018 | 0.007 | 0.002 | 0.006 | 725 | 0.9 | 6707 | 8.5 |
| SORI | -0.007 | 0.008 | 0.002 | -0.01 | 0.008 | 0.002 | -0.018 | 0.009 | 0.005 | 0.002 | 0.004 | 99 | 0.1 | 0 | 0.0 |
| SROM | -0.01 | 0.011 | 0.003 | -0.01 | 0.01 | **0.004** | -0.021 | 0.027 | 0.009 | 0.002 | 0.005 | 1845 | 2.3 | 4338 | 5.5 |
| VTRO | -0.015 | 0.003 | 0.003 | -0.009 | 0.014 | 0.003 | -0.01 | 0.026 | 0.006 | 0.003 | 0.005 | **11961** | **15.1** | 4311 | 5.5 |
| **Mean** | **-0.009** | **0.01** | **0.003** | **-0.009** | **0.009** | **0.003** | **-0.019** | **0.02** | **0.007** | **0.002** | **0.004** | **2277.8** | **2.9** | **2152.1** | **2.7** |
| **Min/Max** | **-0.024** | **0.015** | **0.005** | **-0.012** | **0.017** | **0.004** | **-0.03** | **0.06** | **0.013** | **0.004** | **0.01** | **11961** | **15.1** | **7034** | **8.9** |

# fixing statistic for network NET5

| fixing percentage of | all GNSS | G | R | E | C |
|---|---|---|---|---|---|
| using threshold 0.3 | 94.5 | 95.3 | 94.5 | 95.8 | 92.2 |
| considering satellites with dual-frequency fixed | 90.2 | 90.1 | 90.8 | 92.6 | 86.9 |
| considering all signals separately | 90.2 | 90.1 | 90.8 | 92.9 | 85.4 |