# summary for network NET1

timeperiod chosen: from 2026-11-04-00:00:00 until 2026-11-04-23:59:59

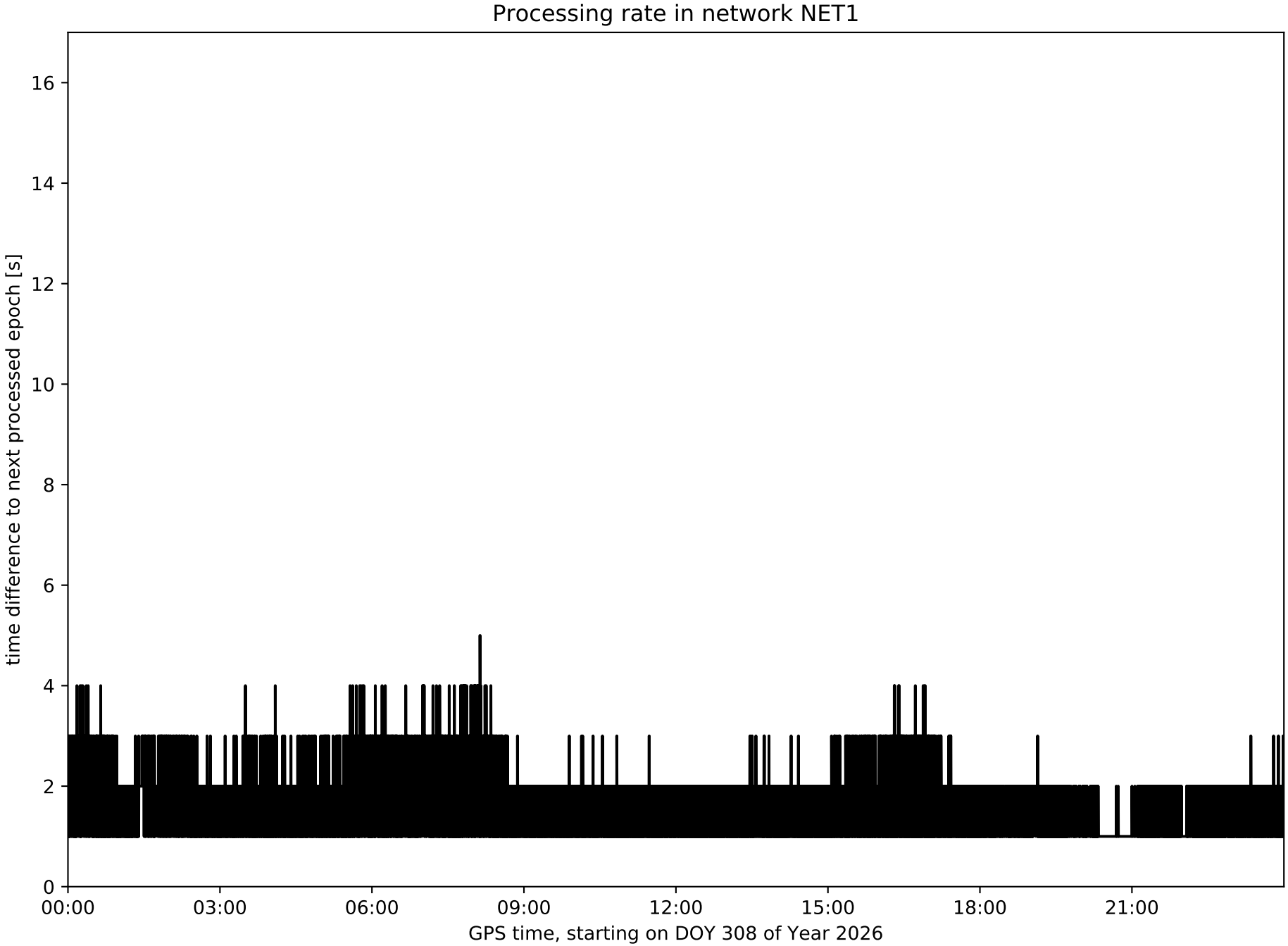
average update rate (durations larger than 15 seconds considered as observation gap): 1.4 seconds

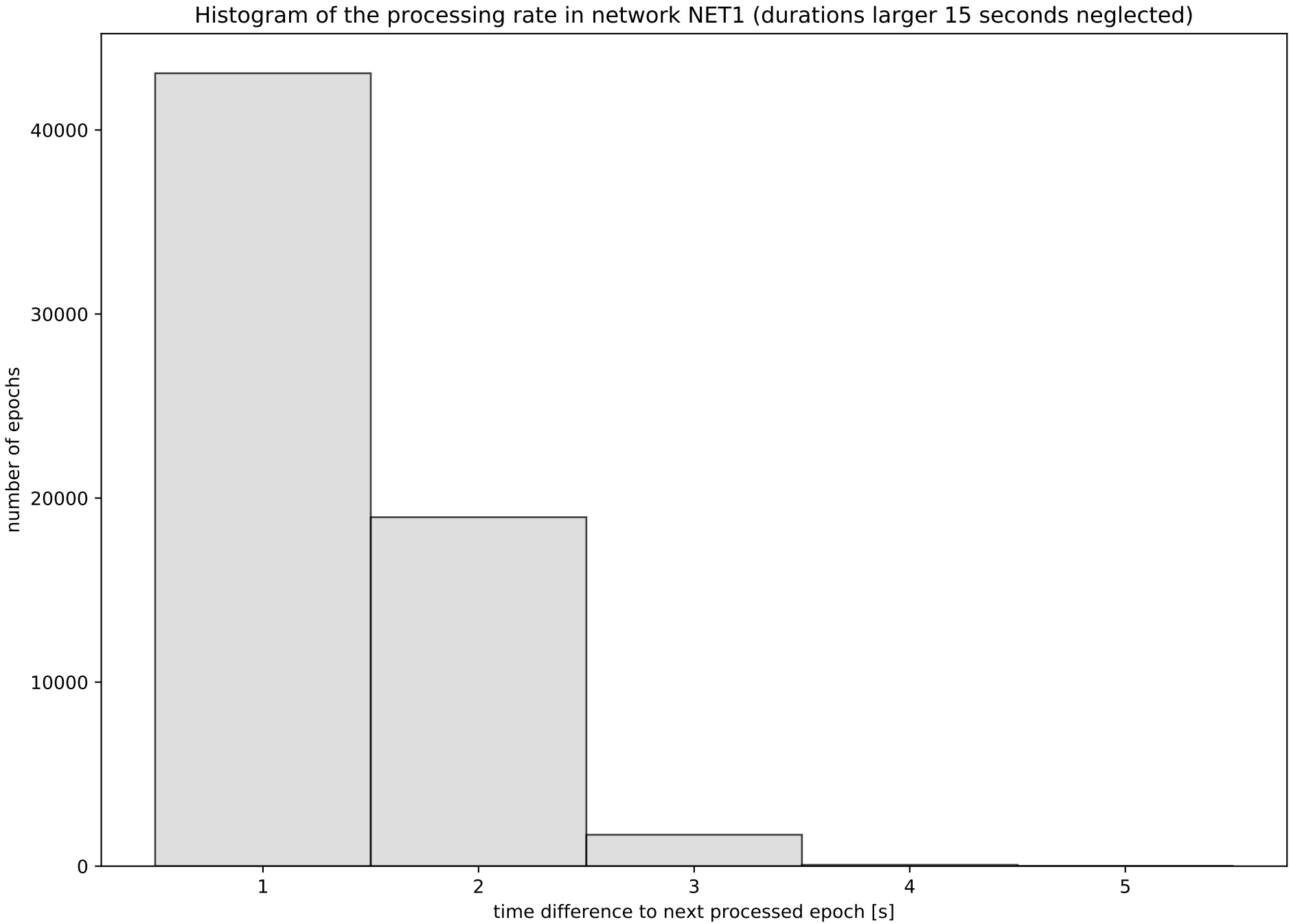
average fixing percentage with threshold set to 0.3: 95.2 percent

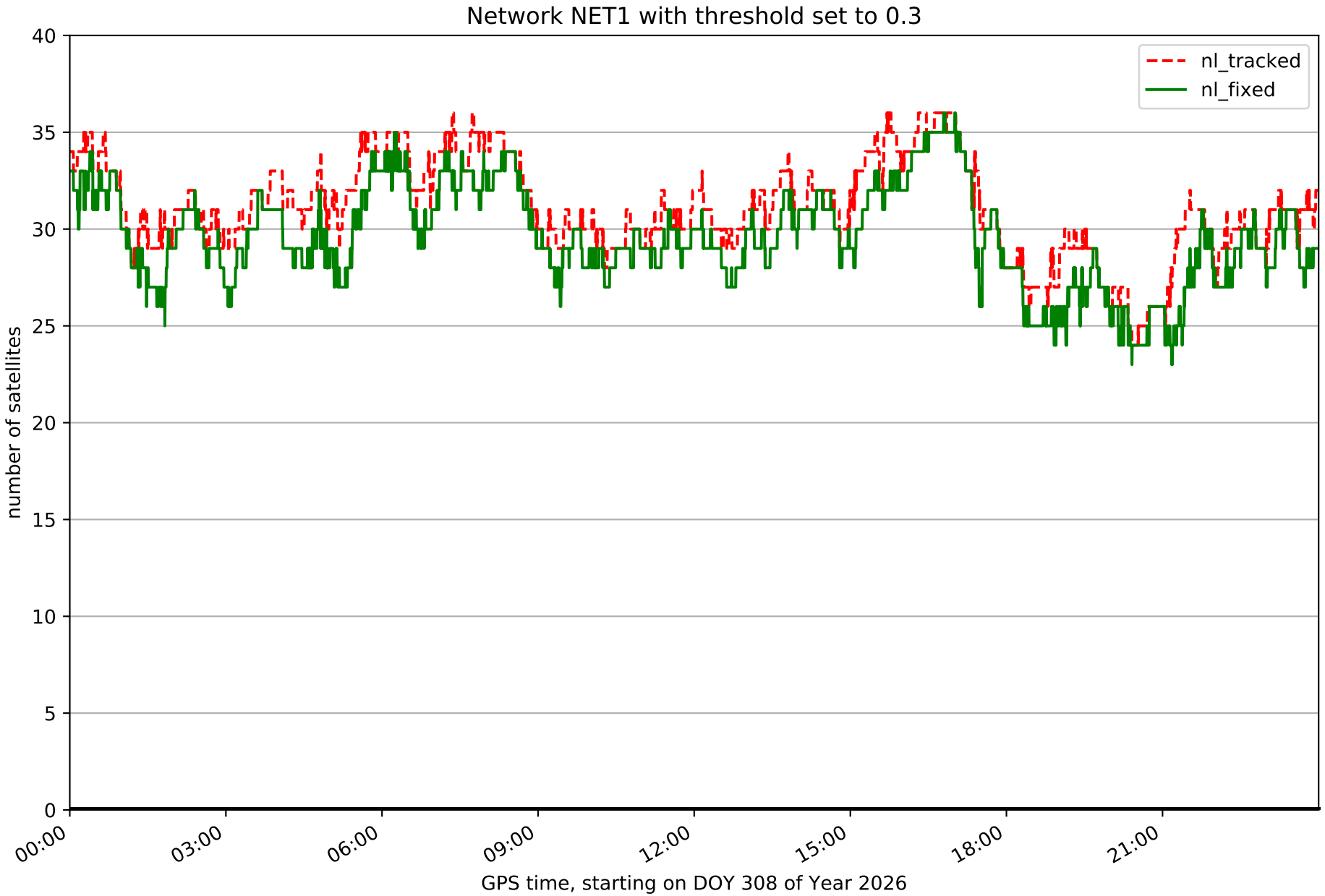
stations available: 17 of 17

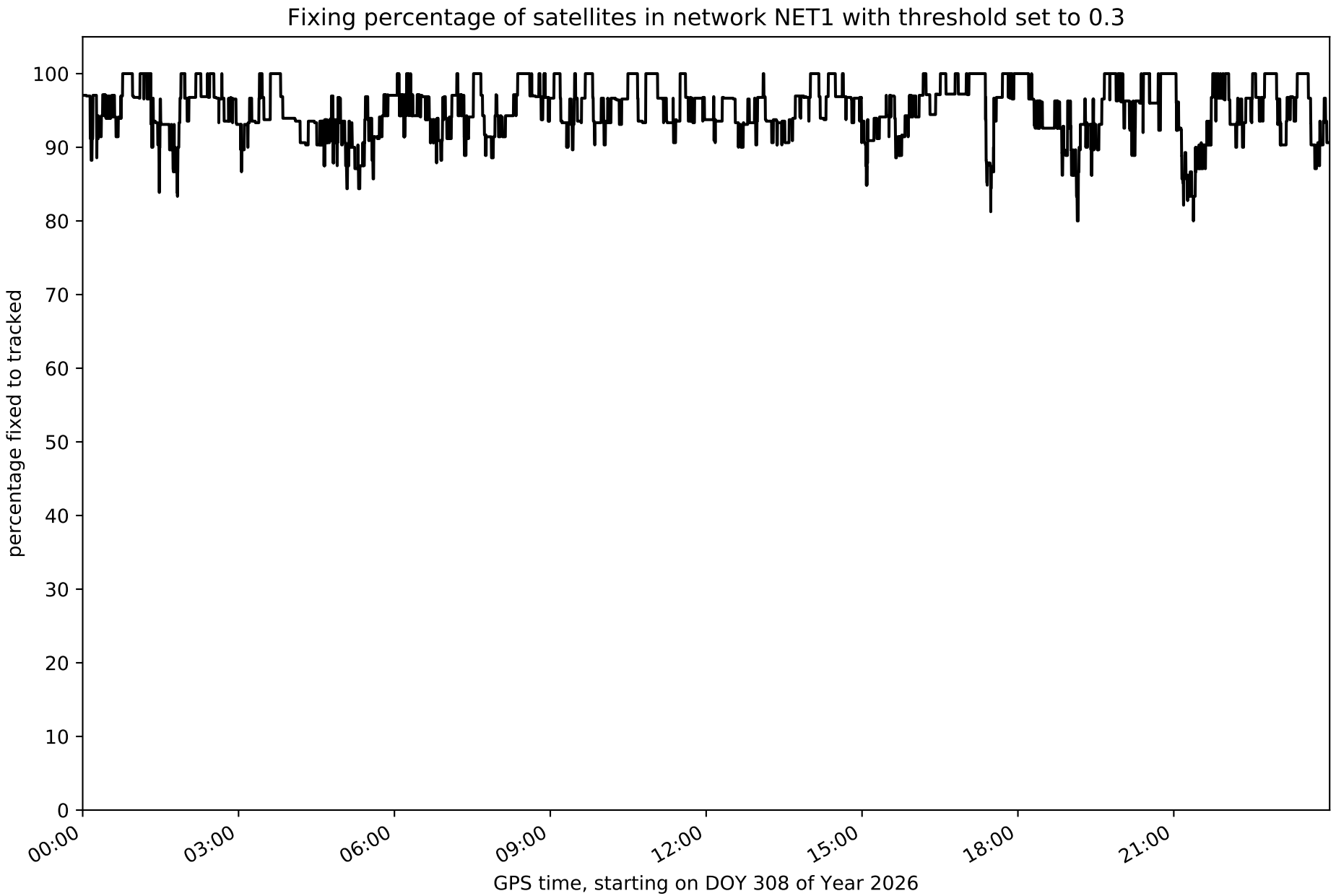
station information:

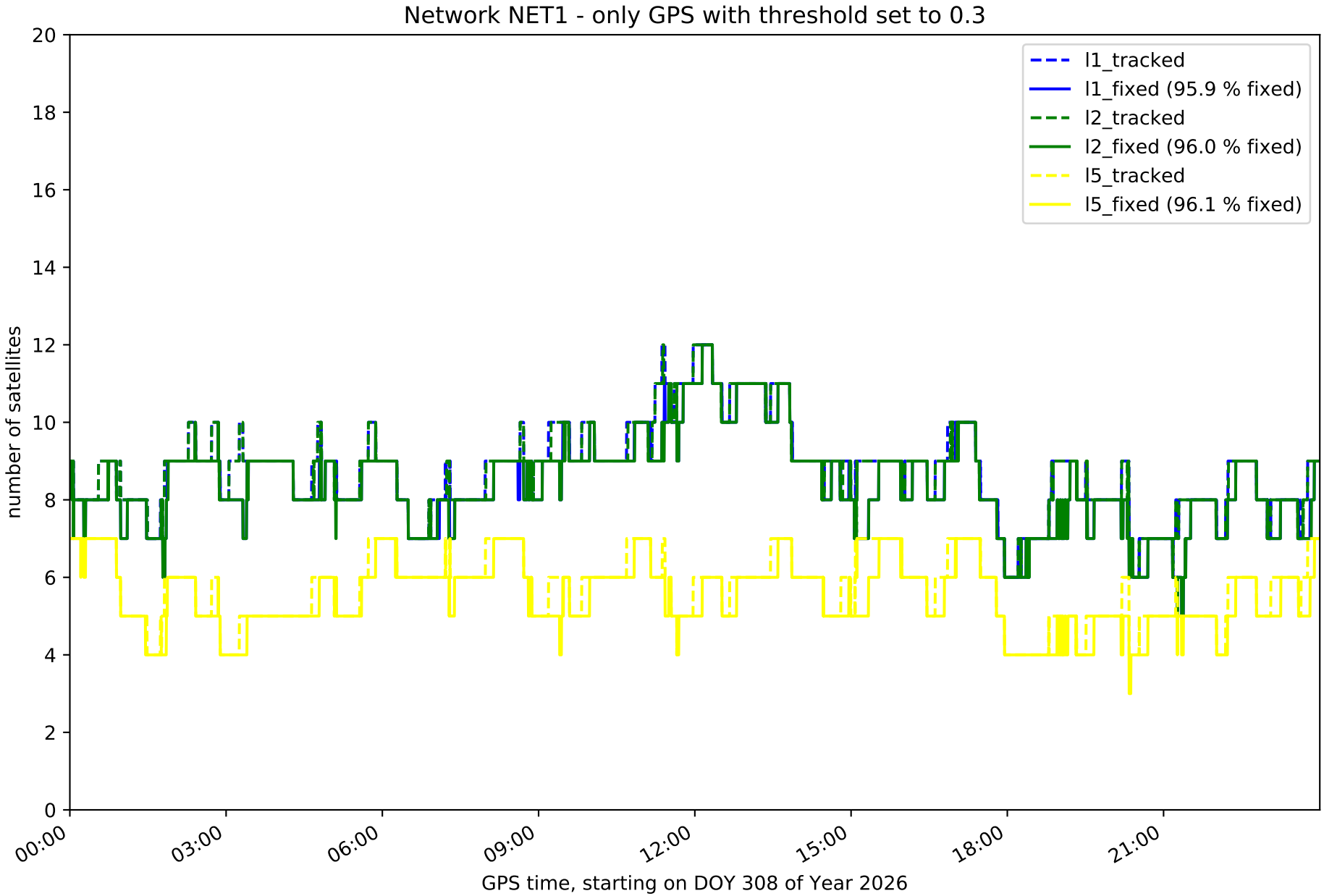
| | | | | |
|---|---|---|---|---|
| station ALMZ: | antenna: LEIAR20 | LEIM | receiver: LEICA GR50 | height: 1019.454 |
| station ARAJ: | antenna: LEIAR20 | LEIM | receiver: LEICA GR50 | height: 580.917 |
| station ARSP: | antenna: GPPNULLANTENNA | NONE | receiver: LEICA GR50 | height: 638.139 |
| station AVI2: | antenna: TRM59900.00 | SCIS | receiver: TRIMBLE NETR9 | height: 1206.511 |
| station BUIT: | antenna: SEPCHOKE_B3E6 | SPKE | receiver: SEPT POLARX5 | height: 1032.704 |
| station GMSR: | antenna: GPPNULLANTENNA | NONE | receiver: TRIMBLE R750 | height: 864.047 |
| station IGNE: | antenna: LEIAT504GG | LEIS | receiver: LEICA GR50 | height: 766.956 |
| station MAD1: | antenna: LEIAR20 | LEIM | receiver: LEICA GR50 | height: 724.477 |
| station NVDA: | antenna: GPPNULLANTENNA | NONE | receiver: TRIMBLE R750 | height: 933.477 |
| station OLM1: | antenna: TRM59900.00 | SCIS | receiver: TRIMBLE NETR9 | height: 829.126 |
| station ORUS: | antenna: TRM57971.00 | TZGD | receiver: TRIMBLE NETR9 | height: 862.752 |
| station PEN1: | antenna: GPPNULLANTENNA | NONE | receiver: LEICA GR30 | height: 814.545 |
| station RIA1: | antenna: TRM59900.00 | SCIS | receiver: TRIMBLE NETR9 | height: 1263.773 |
| station SGVA: | antenna: GPPNULLANTENNA | NONE | receiver: LEICA GR50 | height: 1076.311 |
| station SMDV: | antenna: TPSCR.G3 | TPSH | receiver: TPS NET-G5 | height: 670.78 |
| station TALV: | antenna: TPSCR.G5 | TPSH | receiver: TPS NET-G5 | height: 458.345 |
| station YEB1: | antenna: LEIAR25 | NONE | receiver: LEICA GR25 | height: 975.396 |

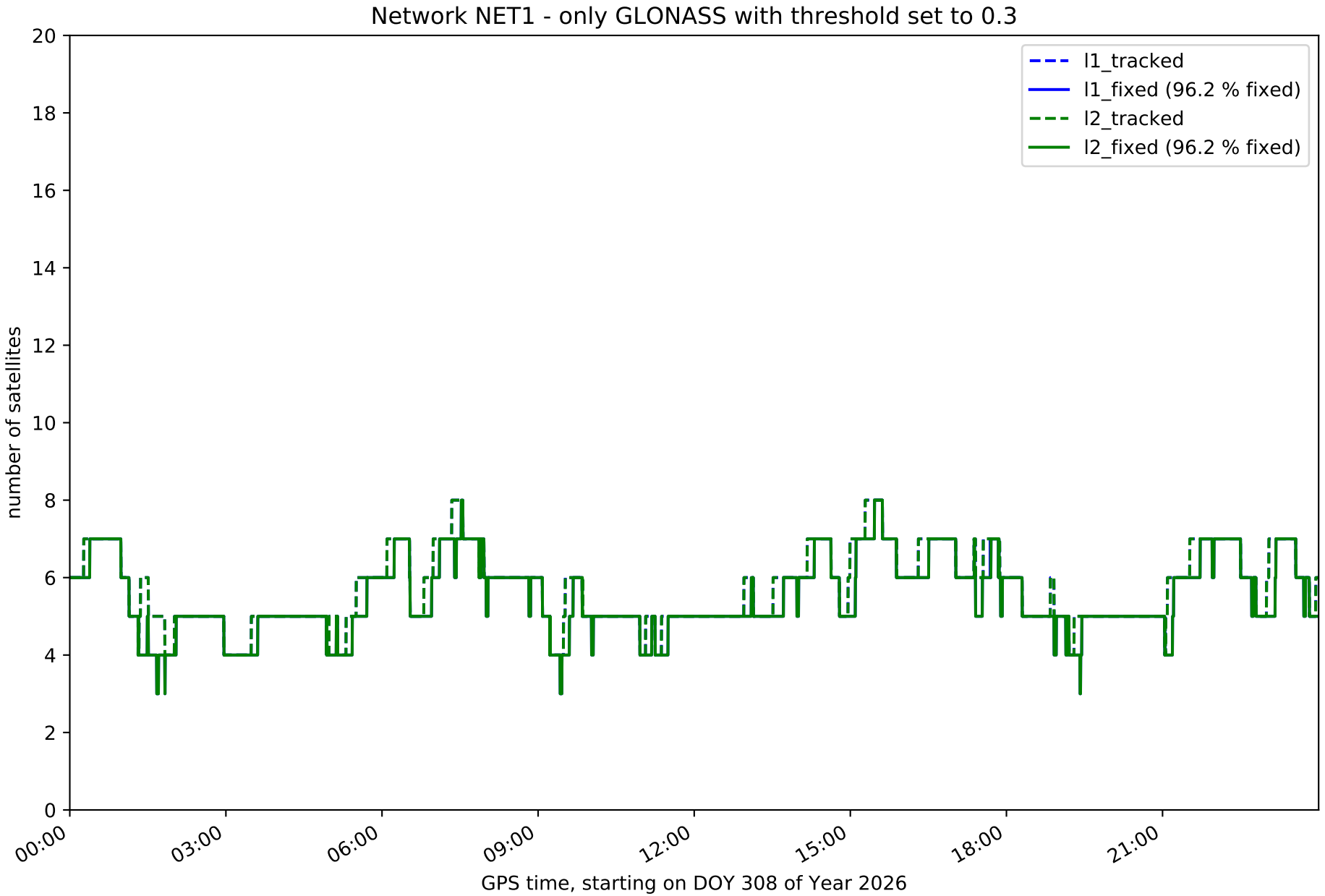

Processing rate in network NET1
time difference to next processed epoch [s]
0
2
4
6
8
10
12
14
16
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

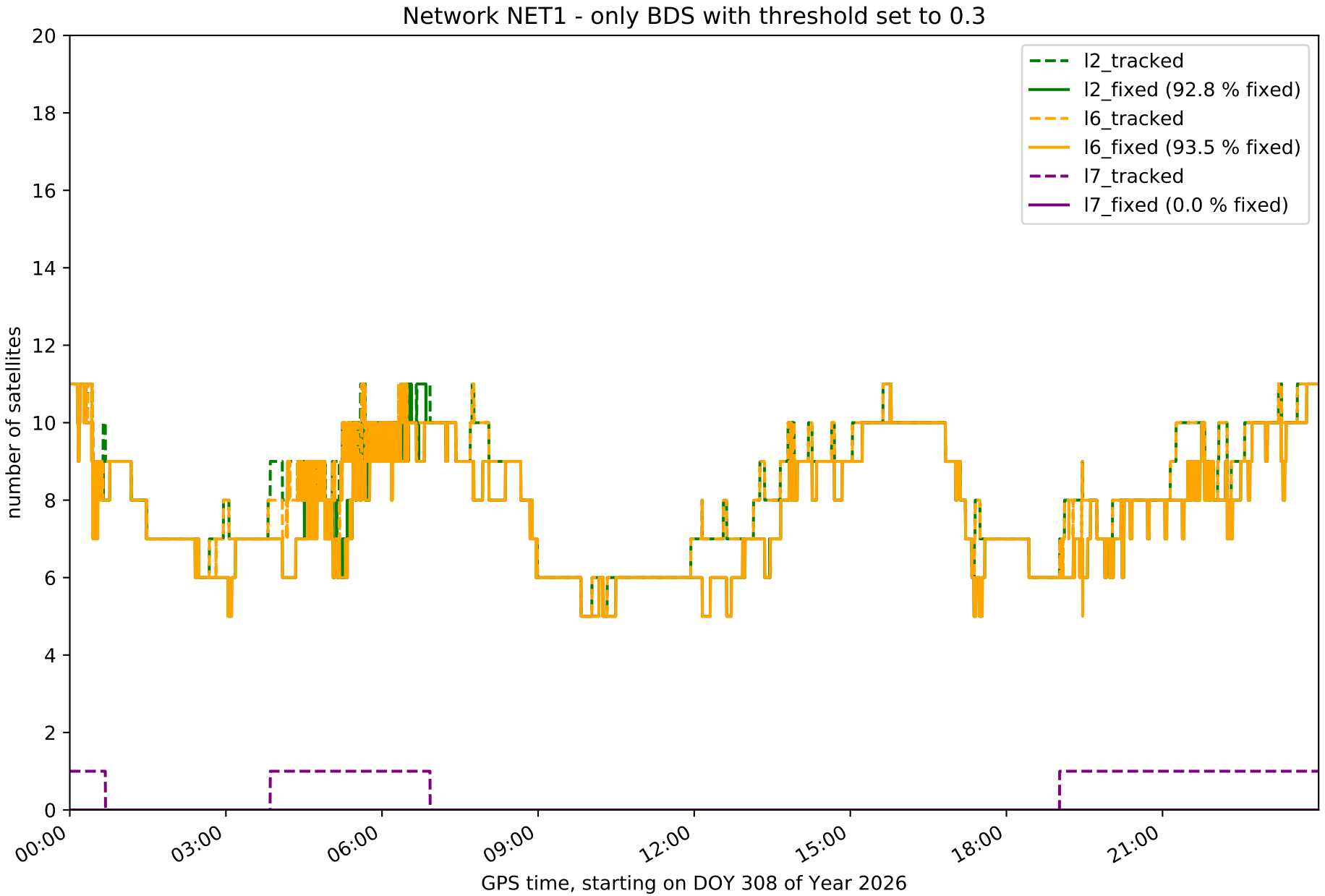

Histogram of the processing rate in network NET1 (durations larger 15 seconds neglected)
number of epochs
0
10000
20000
30000
40000
1
2
3
4
5
time difference to next processed epoch [s]

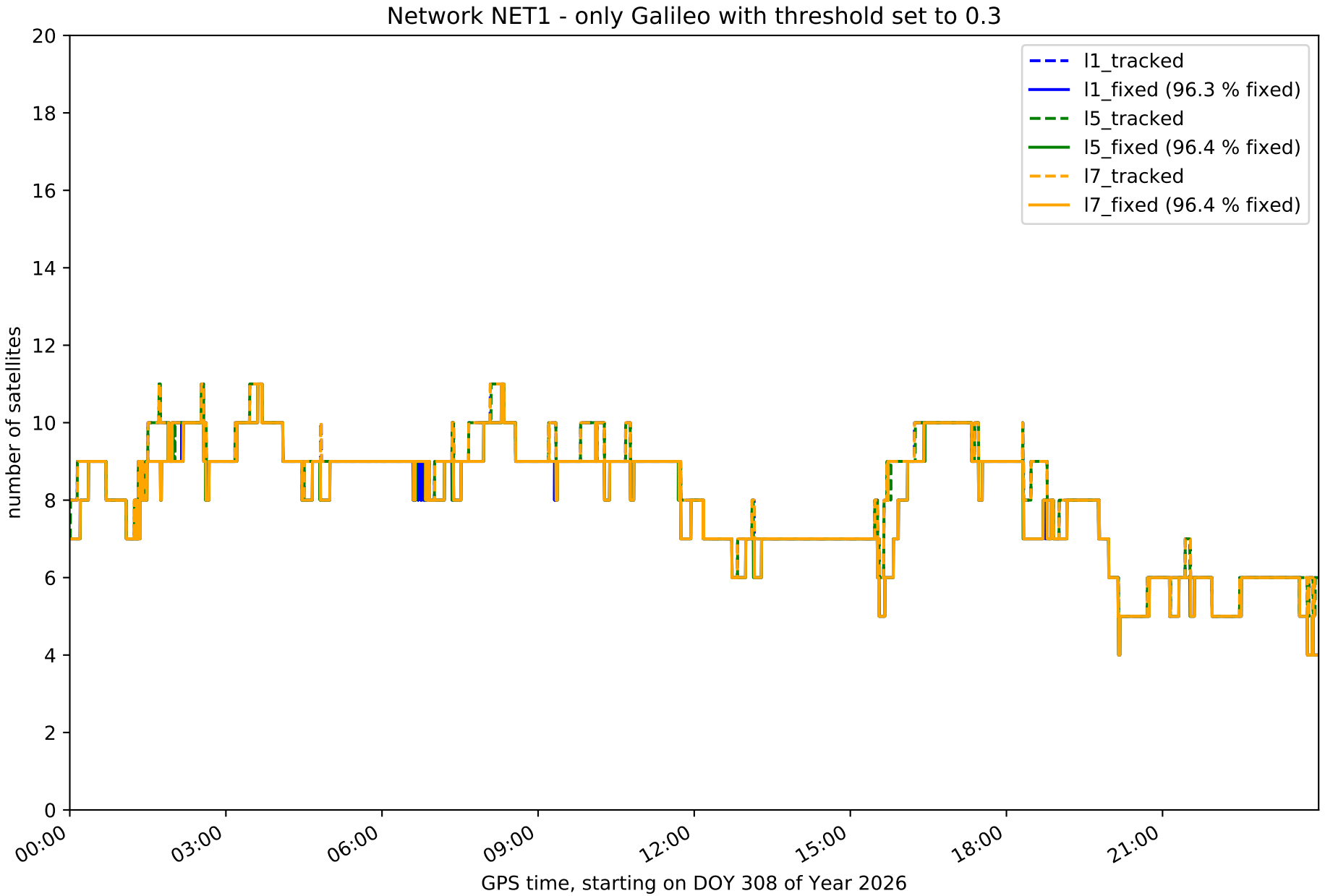

Network NET1 with threshold set to 0.3
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
40
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

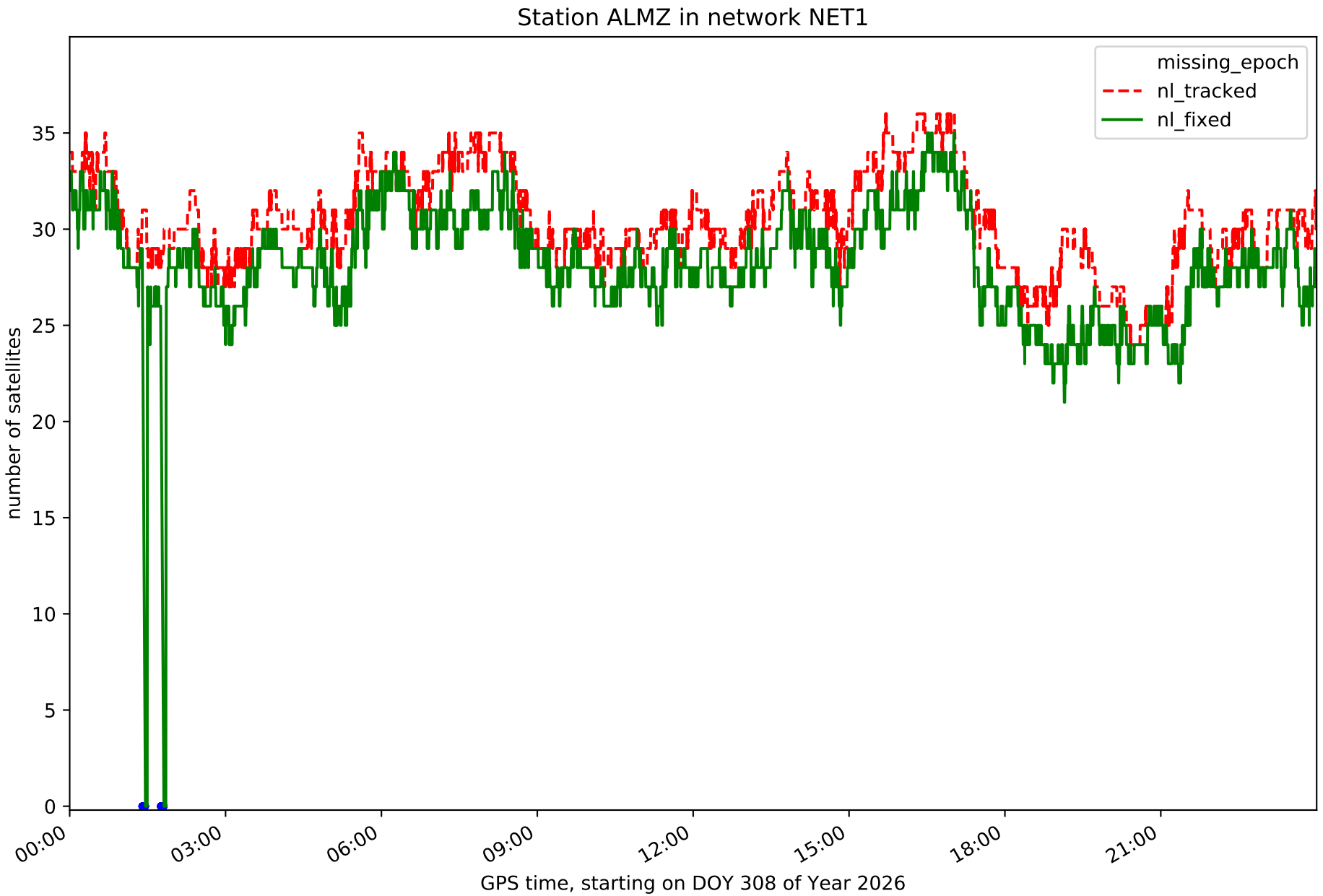

Fixing percentage of satellites in network NET1 with threshold set to 0.3
percentage fixed to tracked
100
90
80
70
60
50
40
30
20
10
0
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

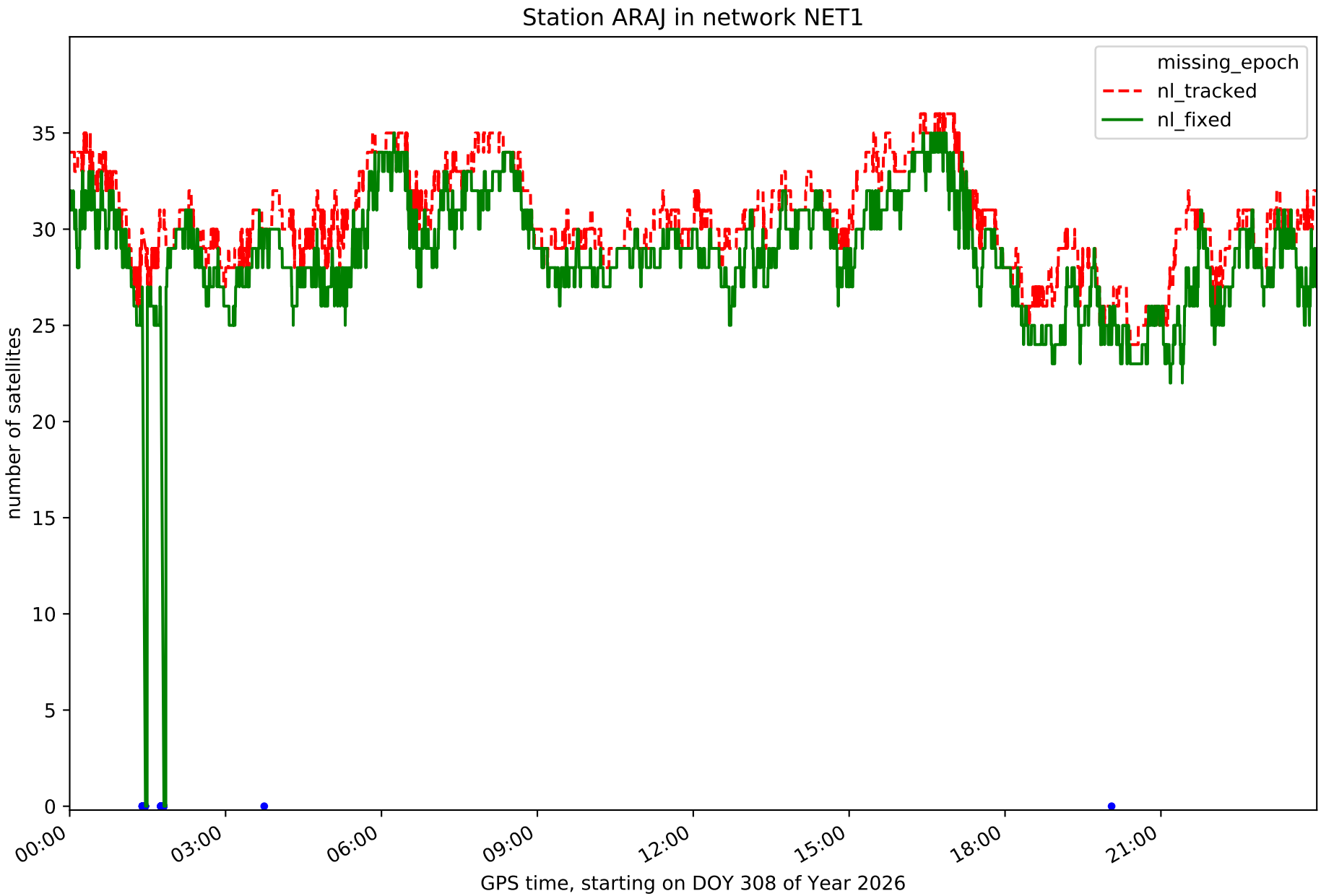

Network NET1 - only GPS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 308 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
l1_tracked
l1_fixed (95.9 % fixed)
l2_tracked
l2_fixed (96.0 % fixed)
l5_tracked
l5_fixed (96.1 % fixed)

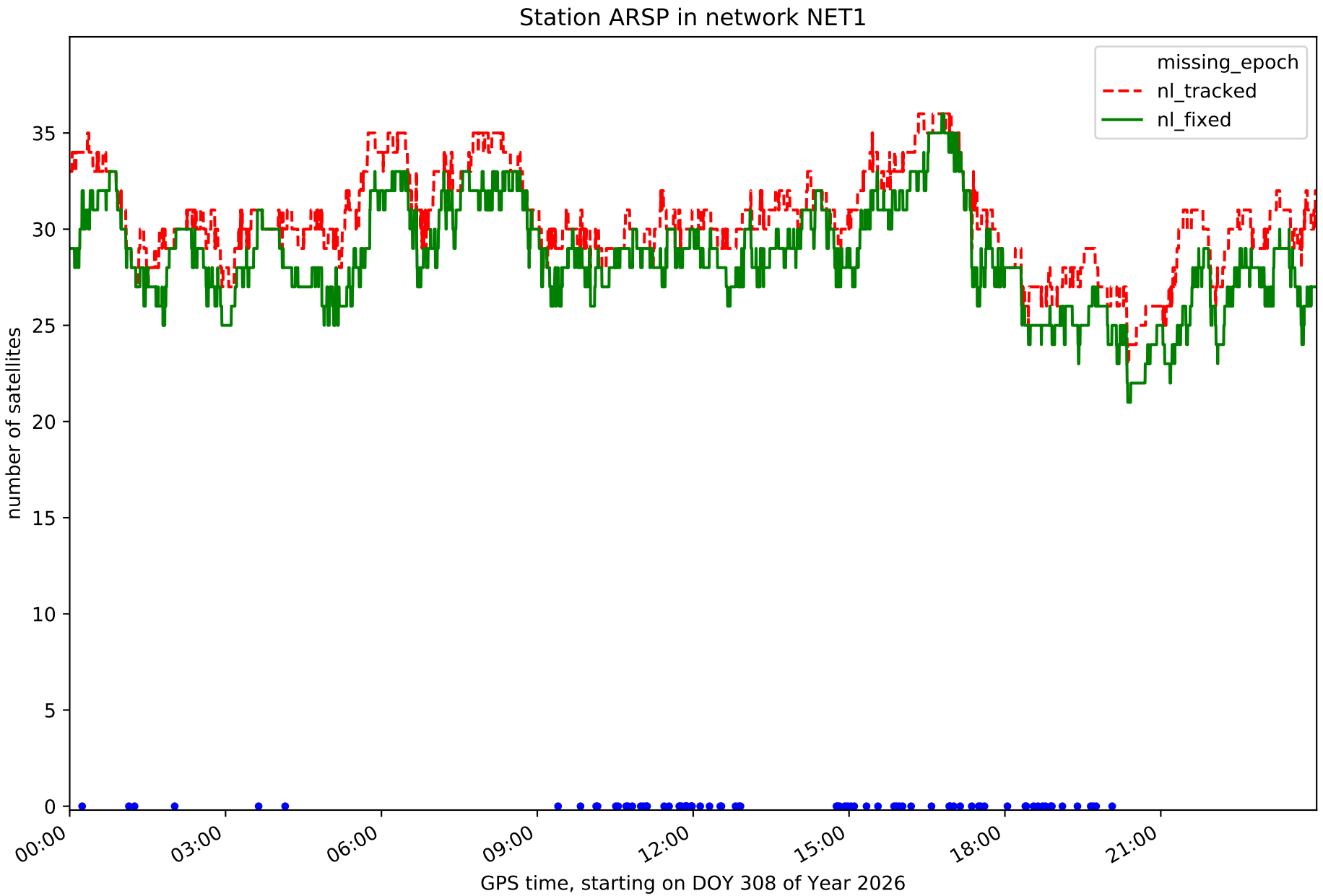

Network NET1 - only GLONASS with threshold set to 0.3
l1_tracked
l1_fixed (96.2 % fixed)
l2_tracked
l2_fixed (96.2 % fixed)
number of satellites
0
2
4
6
8
10
12
14
16
18
20
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

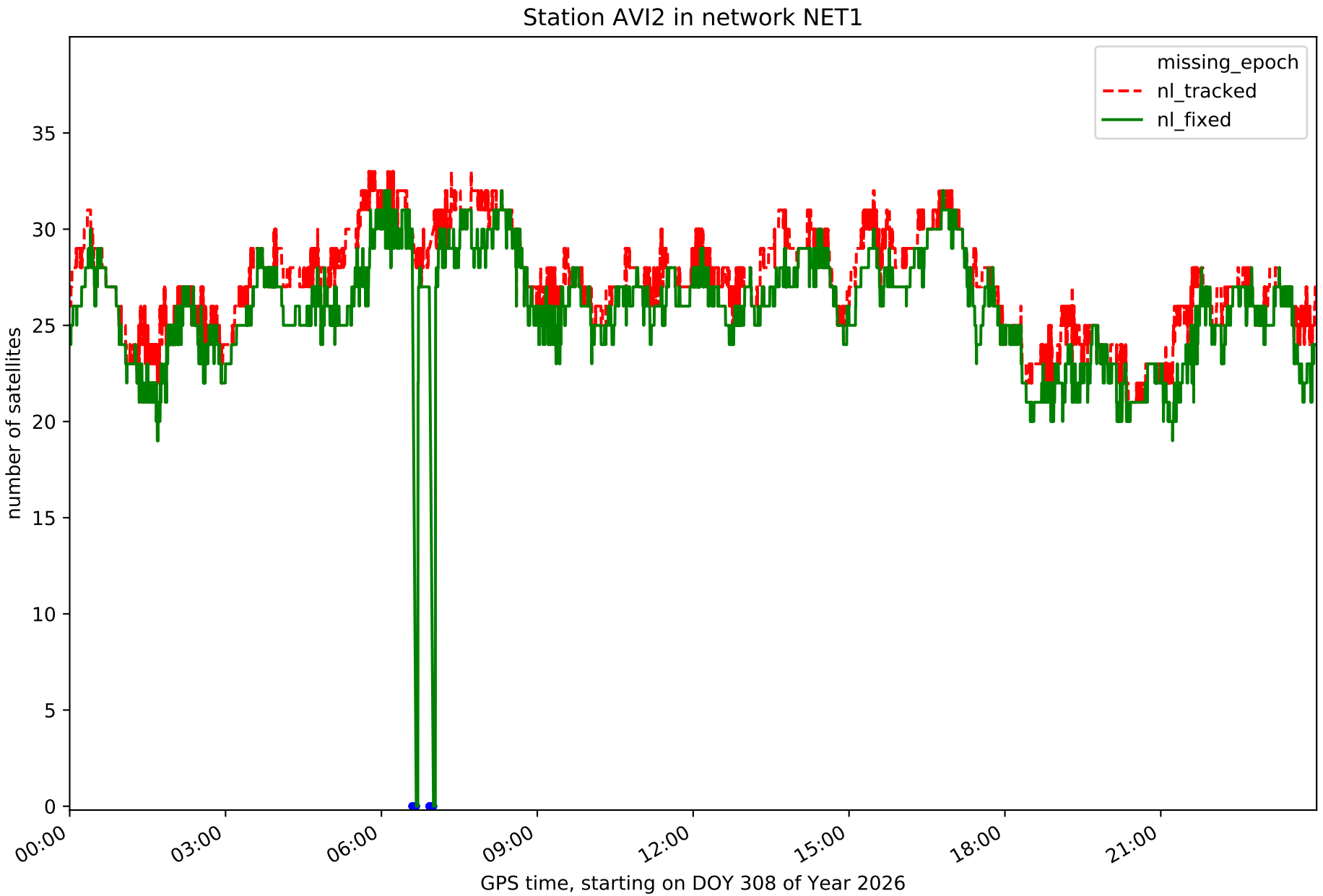

Network NET1 - only BDS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 308 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
I2_tracked
I2_fixed (92.8 % fixed)
I6_tracked
I6_fixed (93.5 % fixed)
I7_tracked
I7_fixed (0.0 % fixed)

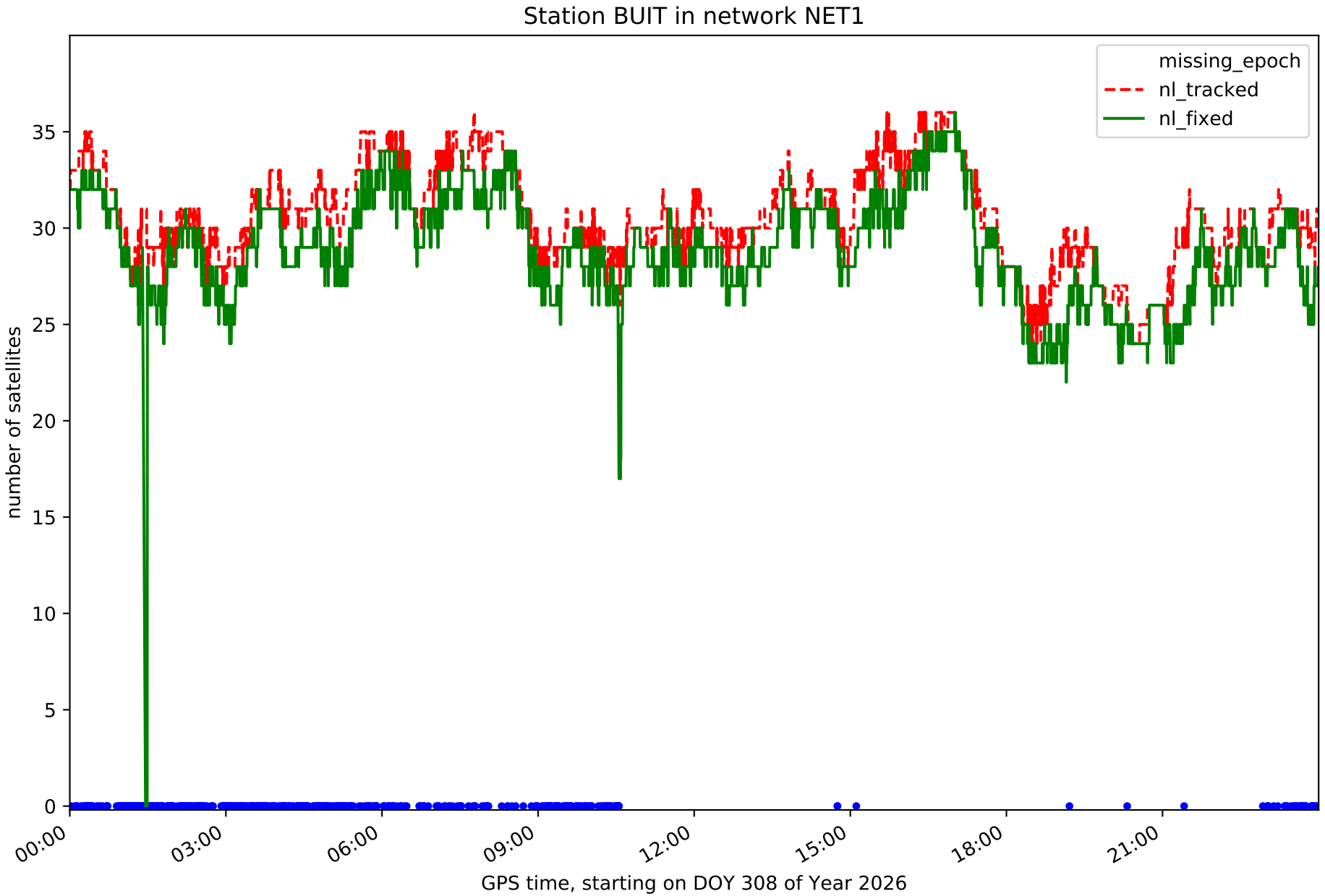

Network NET1 - only Galileo with threshold set to 0.3
l1_tracked
l1_fixed (96.3 % fixed)
l5_tracked
l5_fixed (96.4 % fixed)
l7_tracked
l7_fixed (96.4 % fixed)
number of satellites
0
2
4
6
8
10
12
14
16
18
20
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

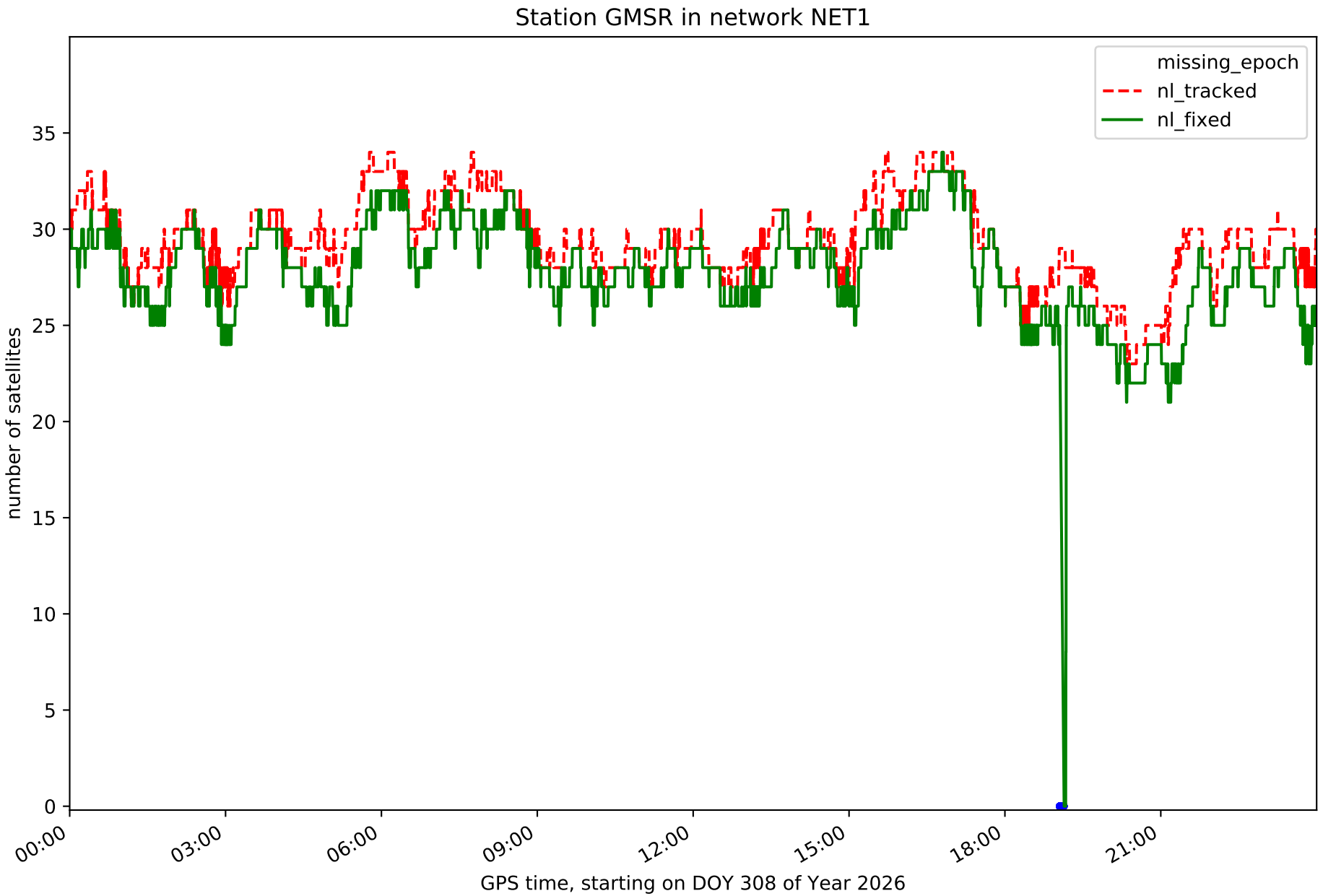

Station ALMZ in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

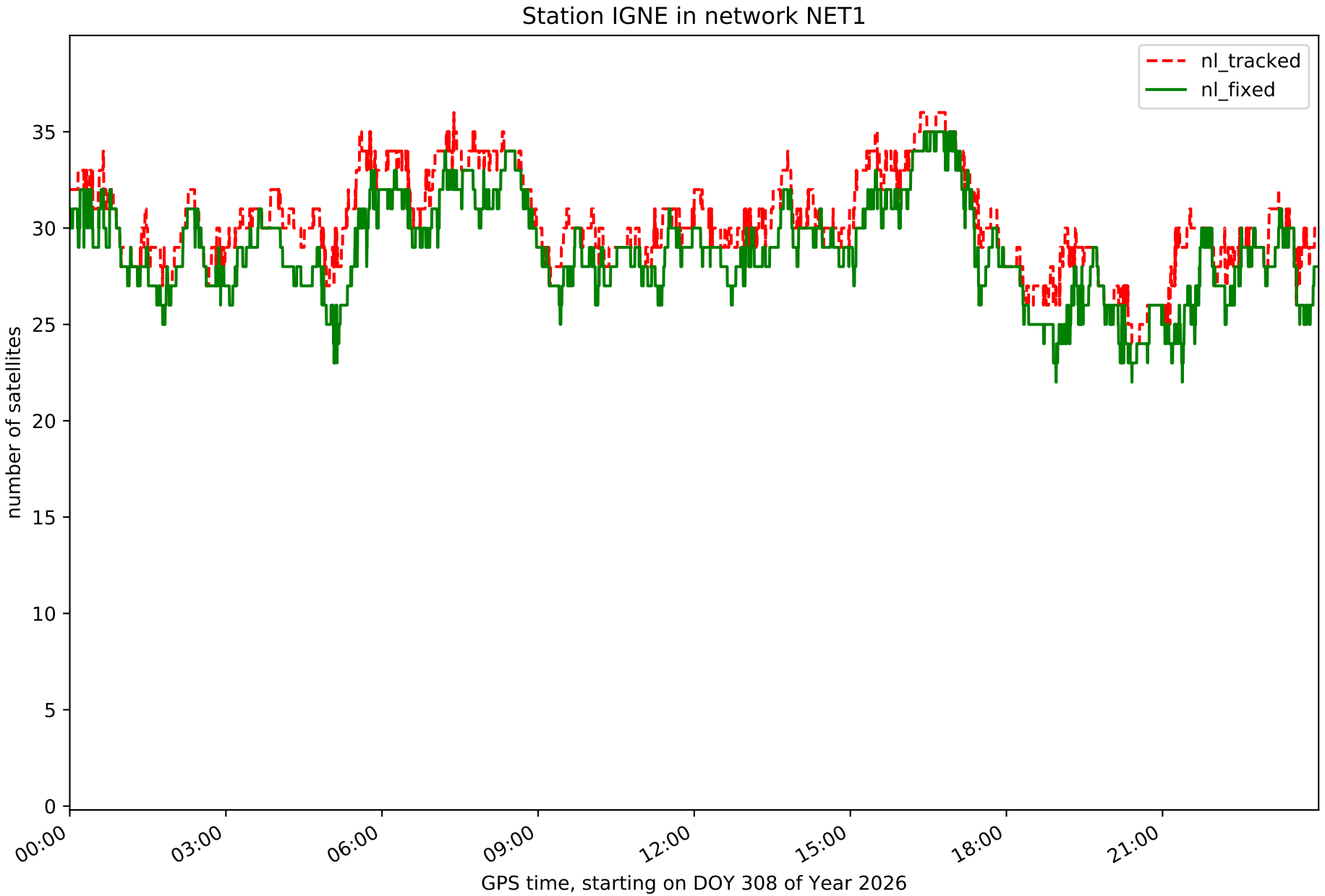

Station ARAJ in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

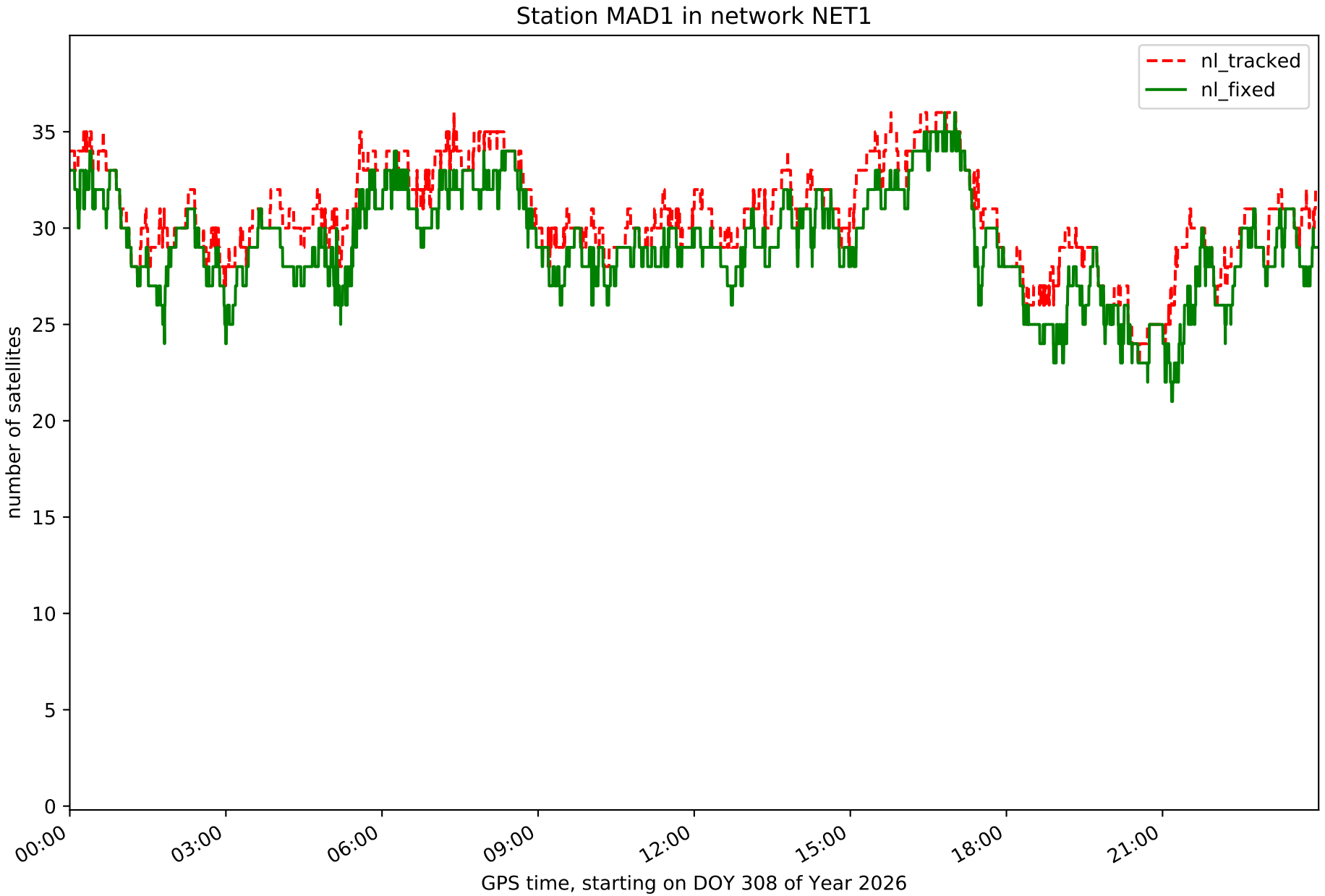

Station ARSP in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

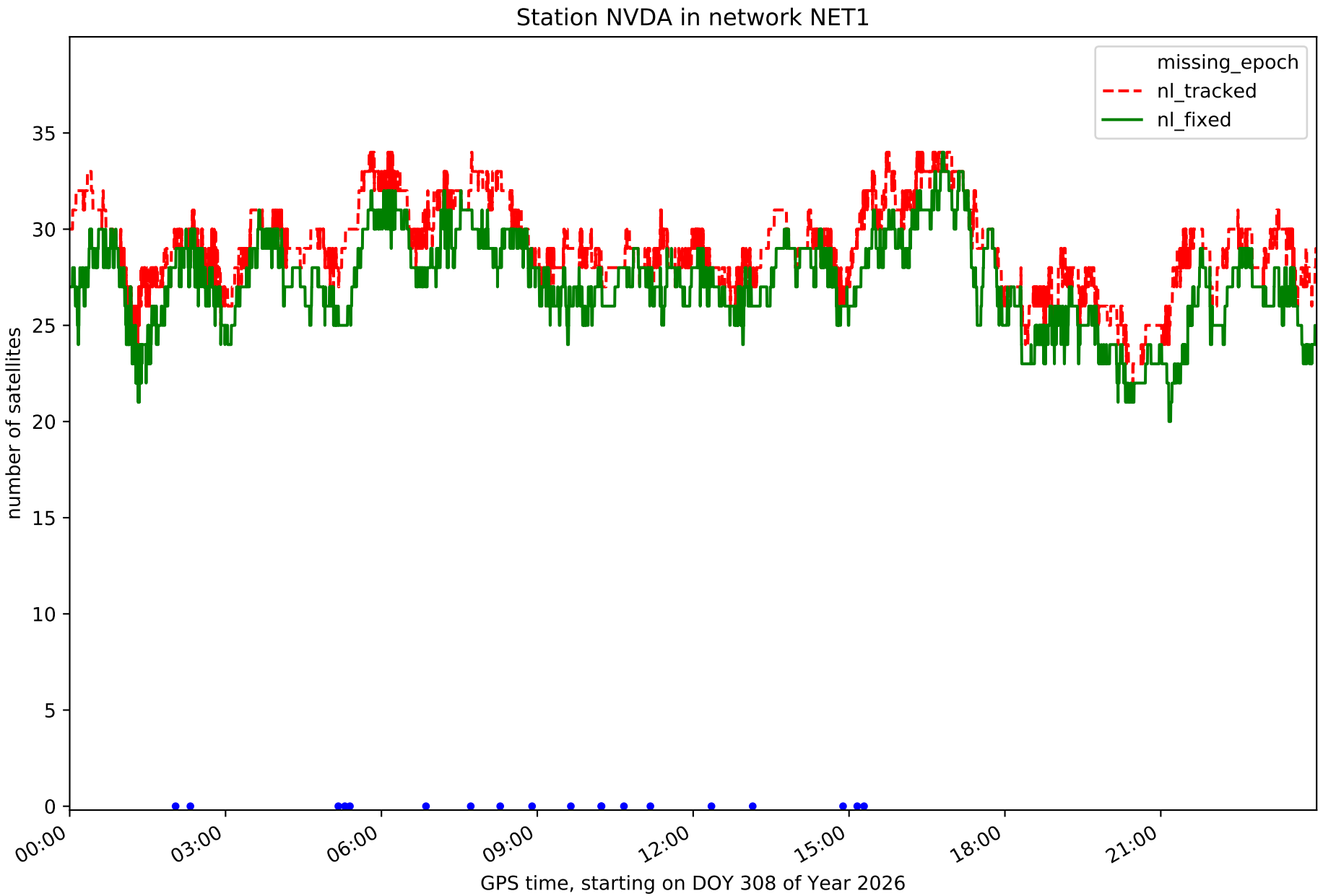

Station AVI2 in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

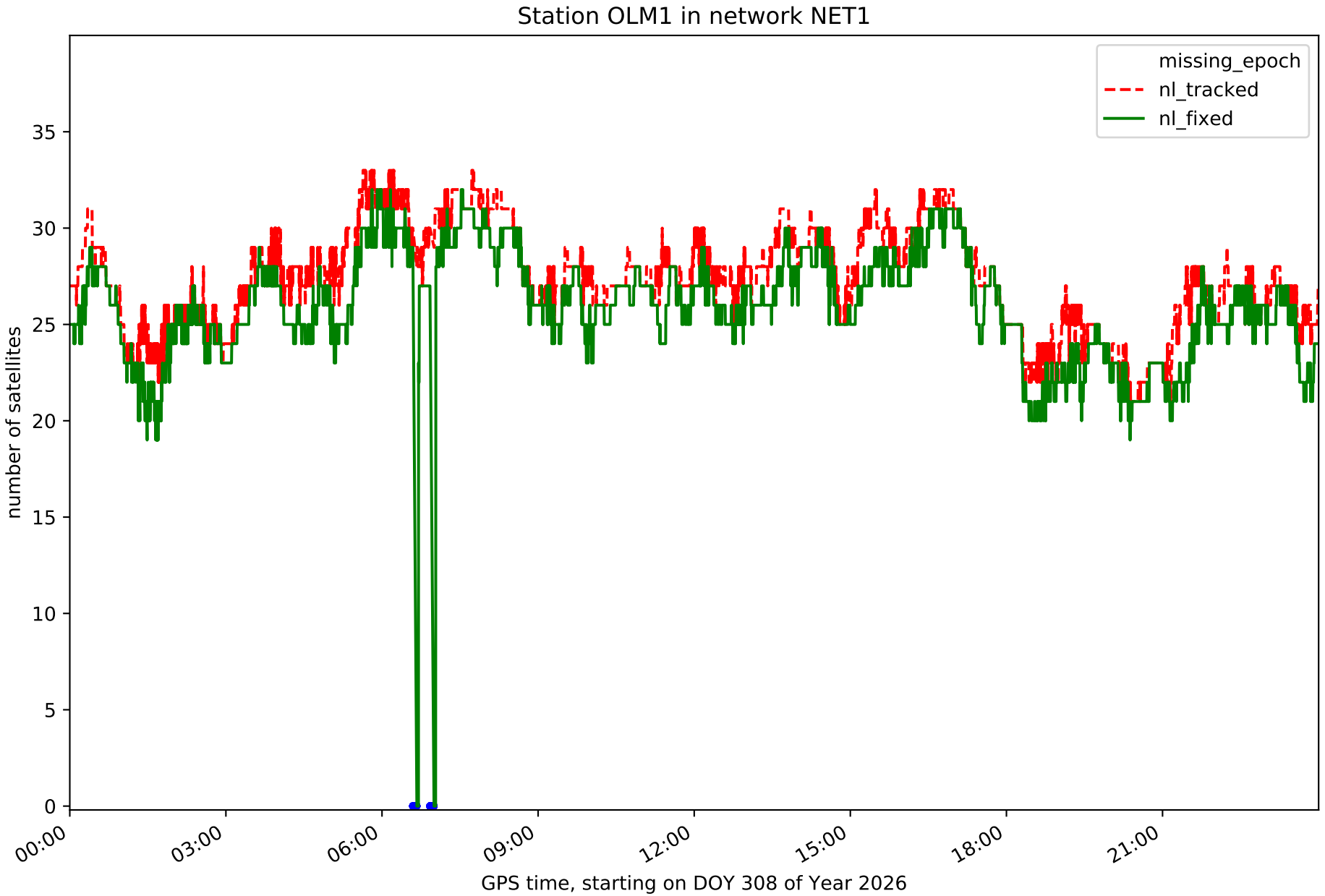

Station BUIT in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

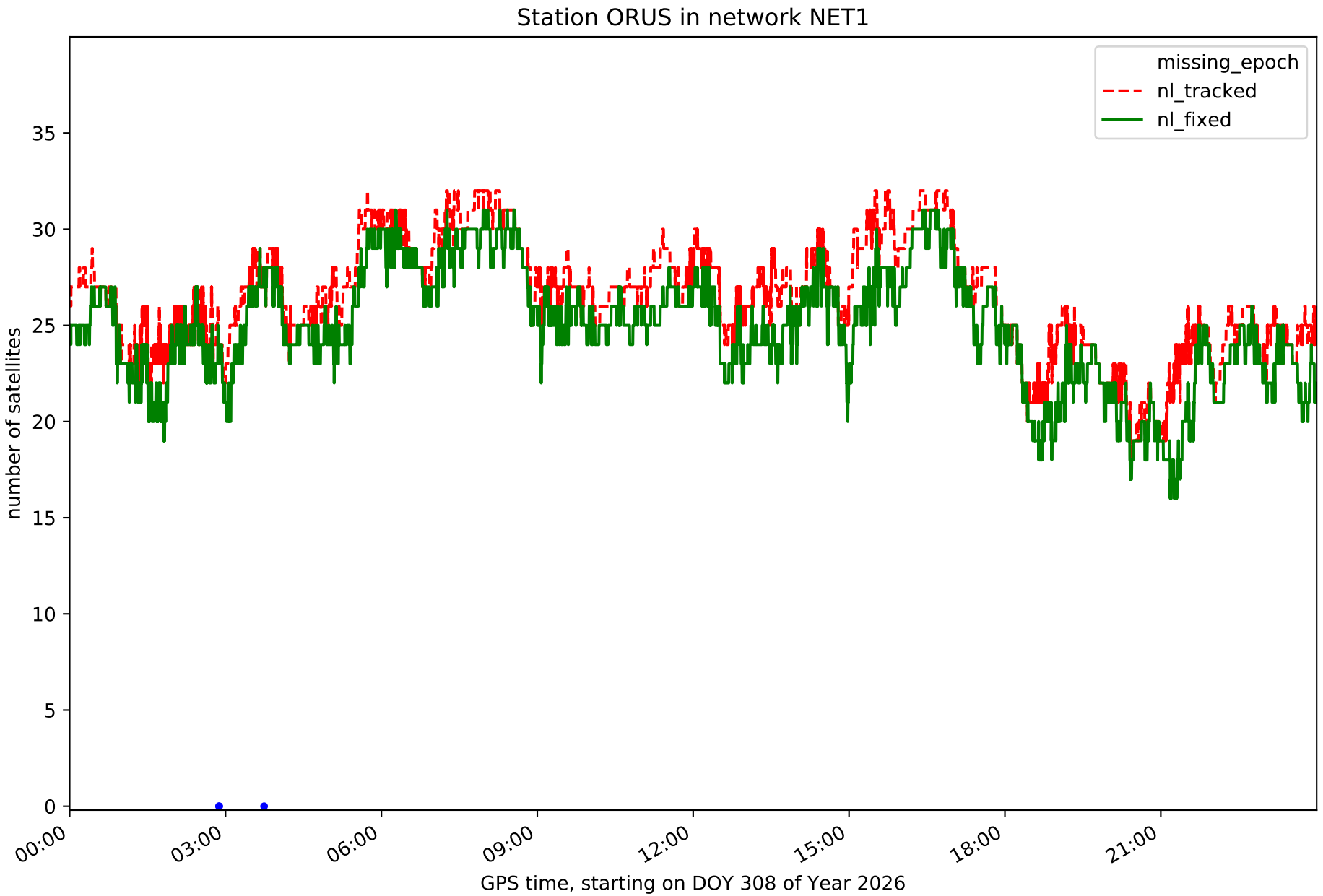

Station GMSR in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

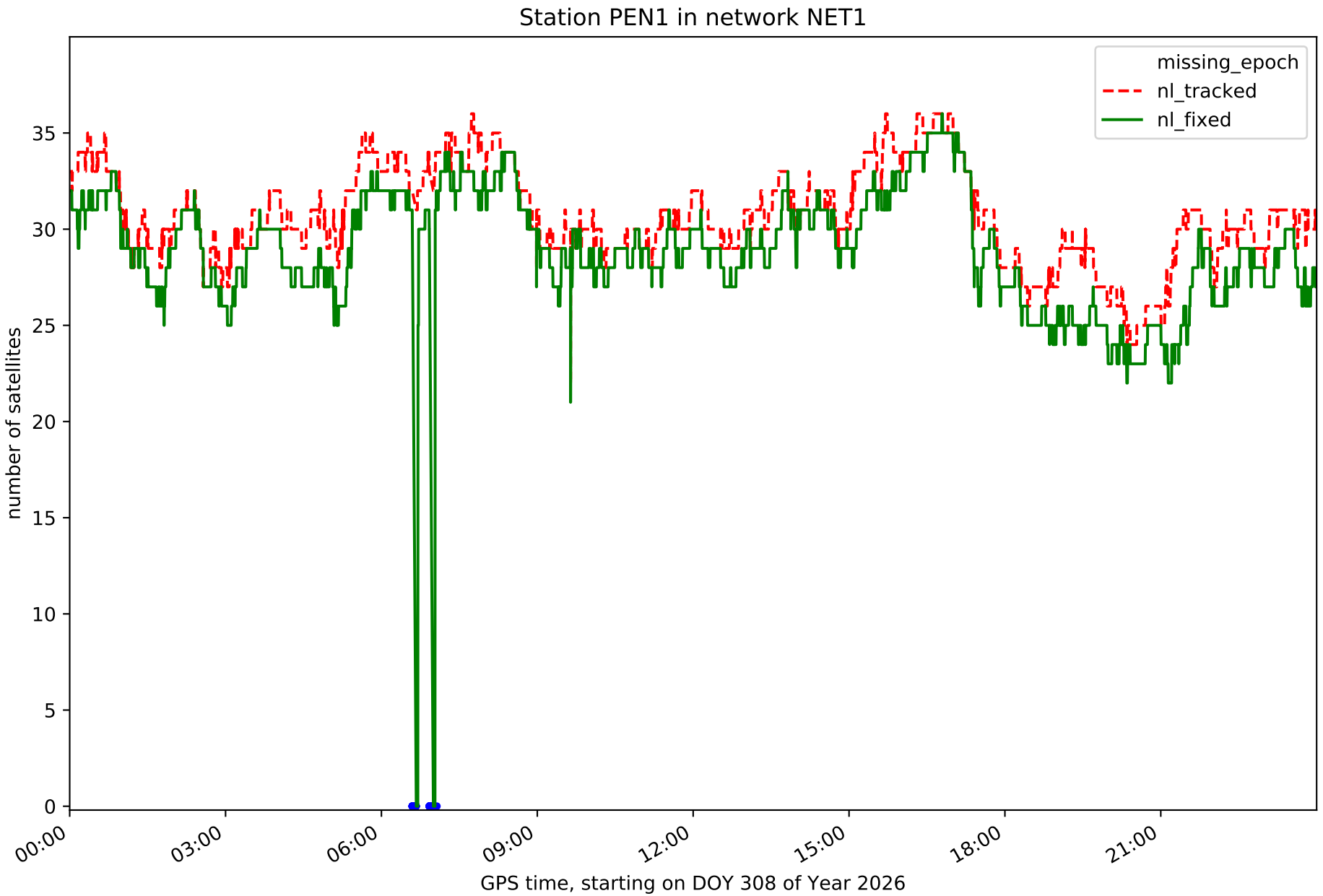

Station IGNE in network NET1
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

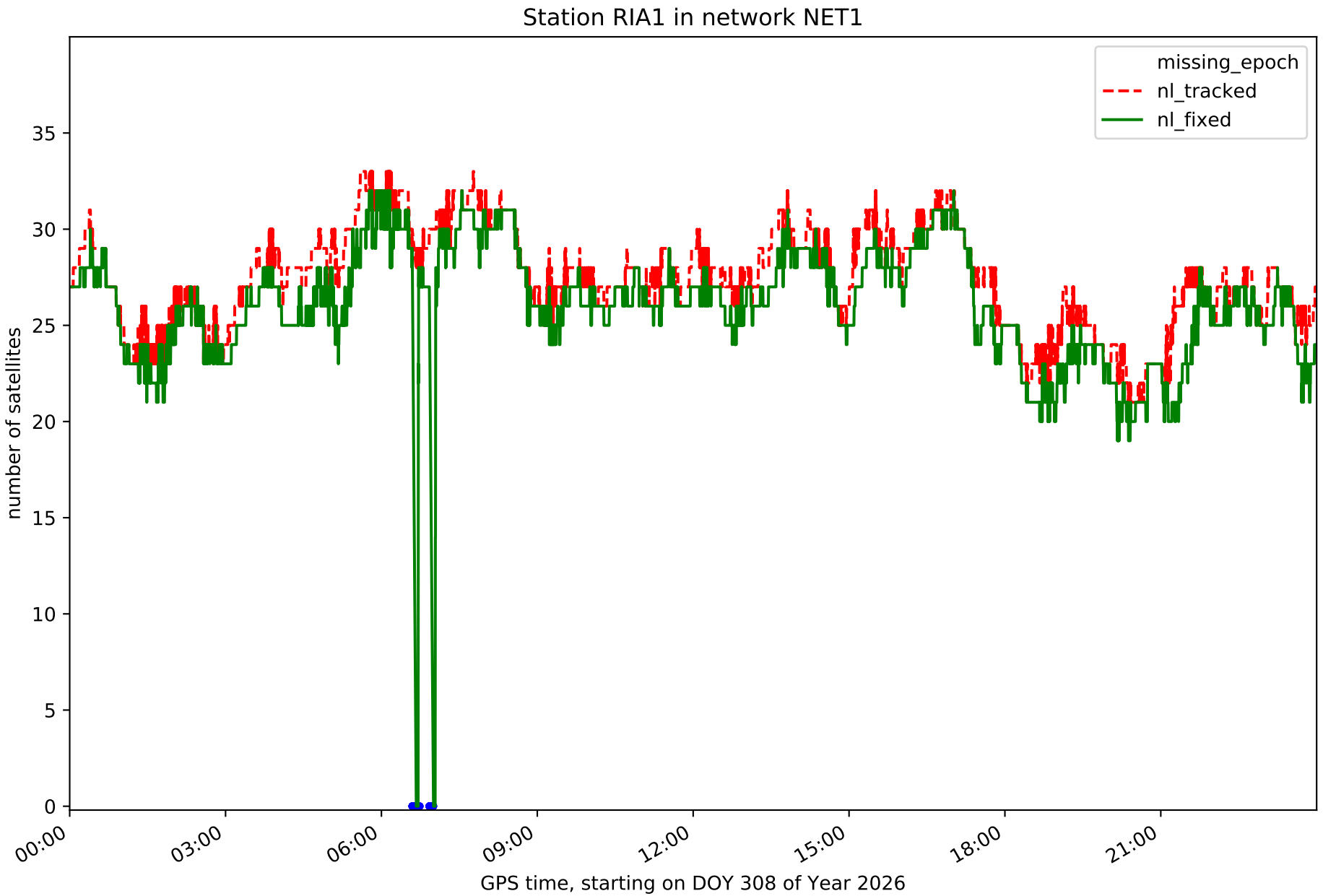

Station MAD1 in network NET1
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

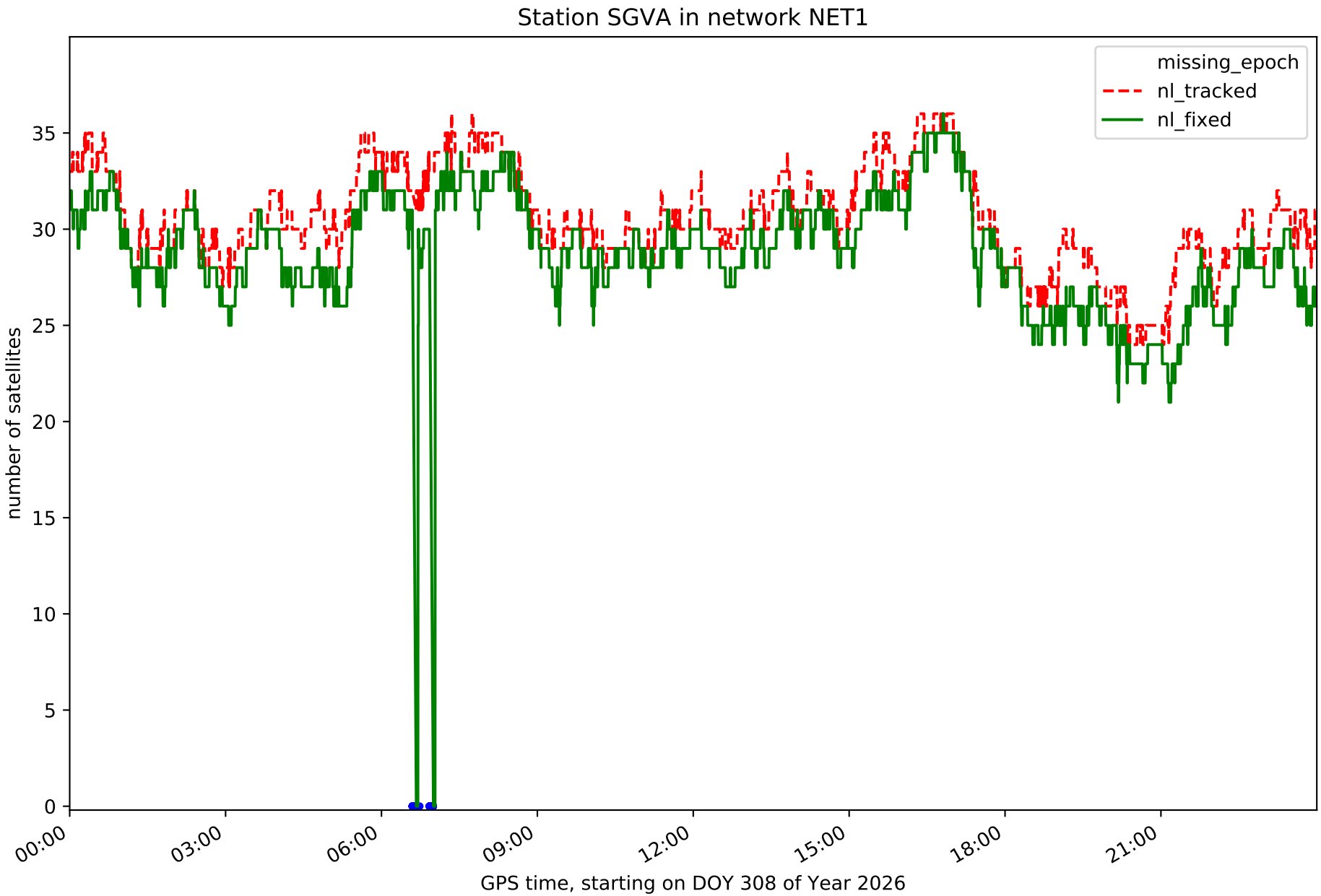

Station NVDA in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

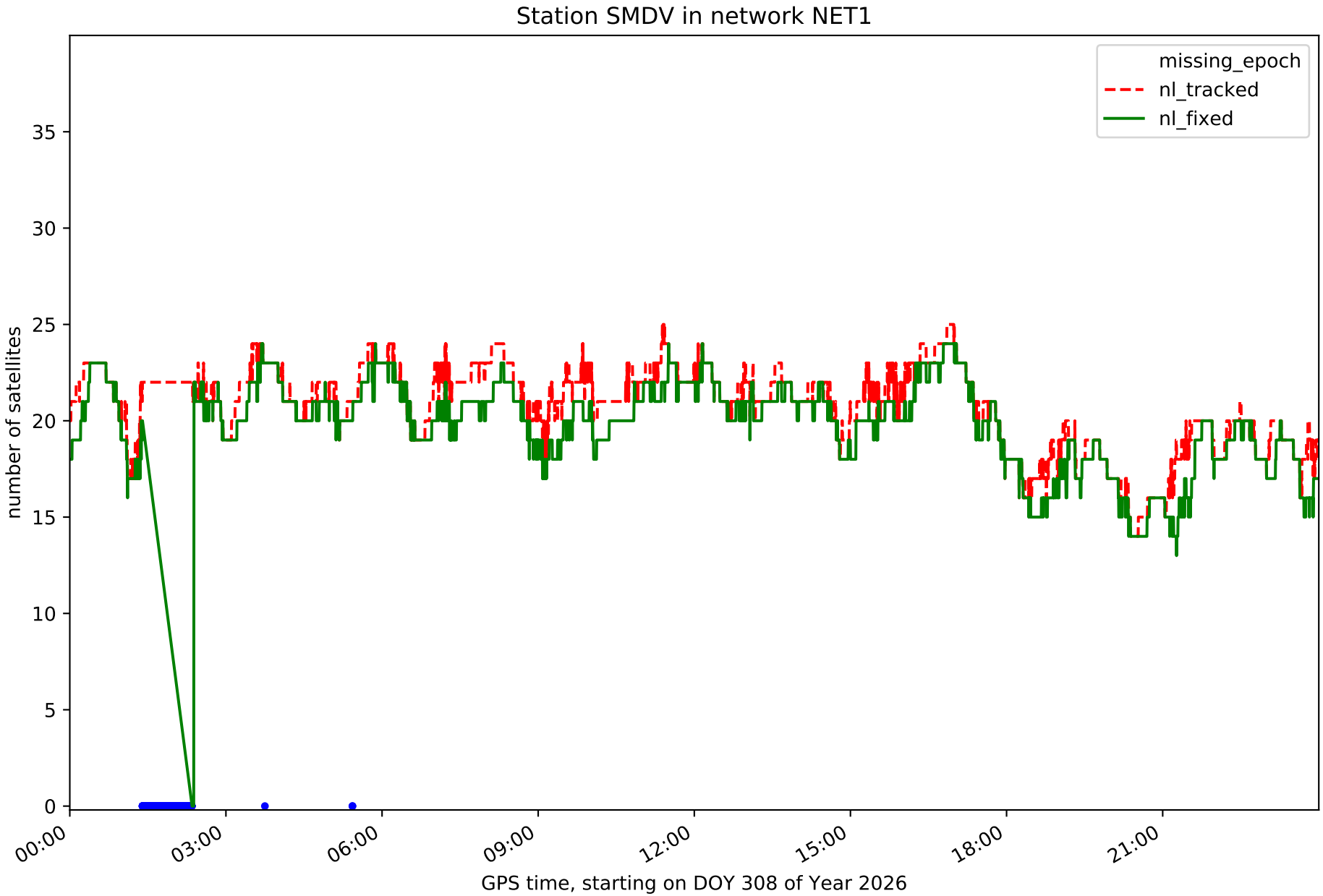

Station OLM1 in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

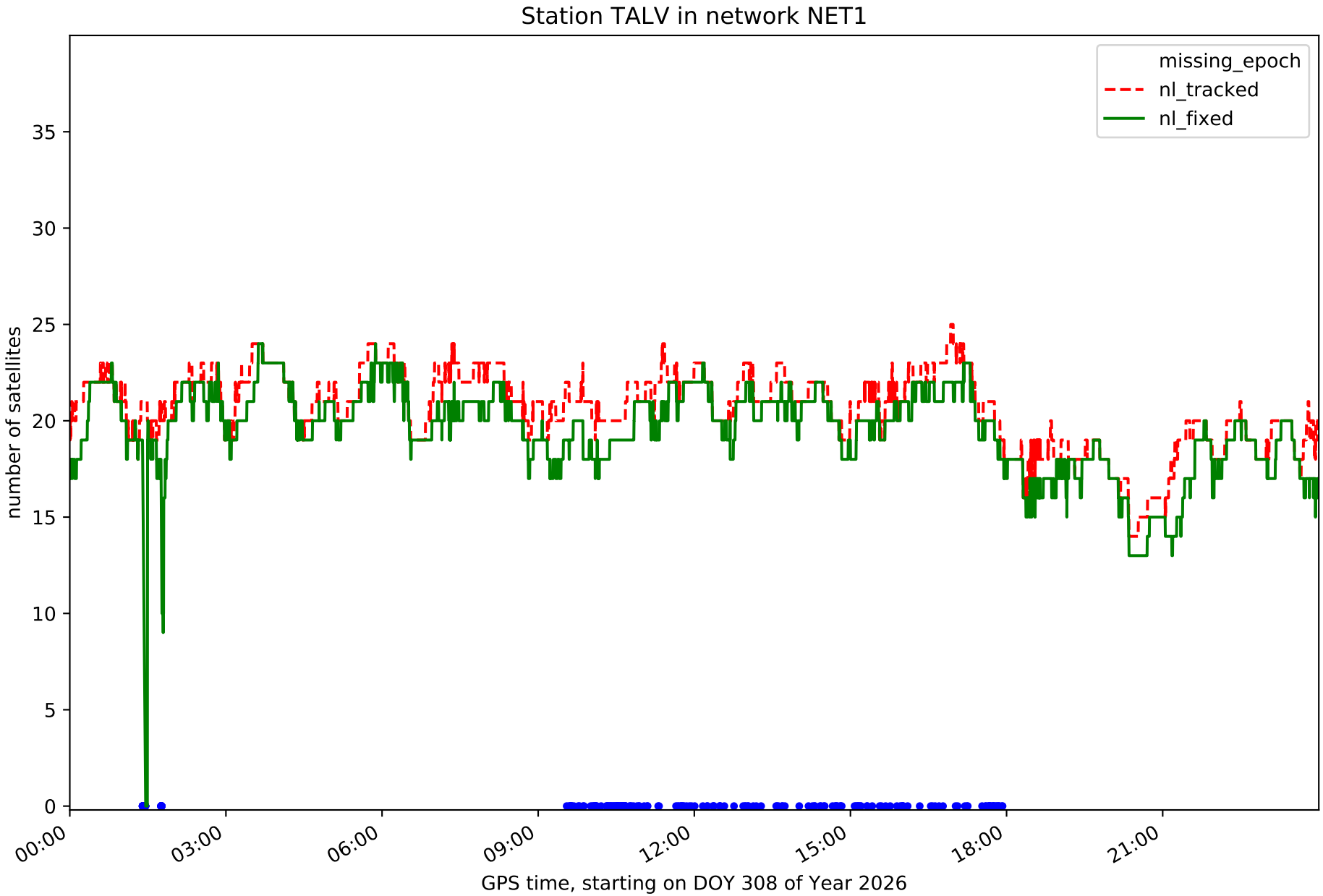

Station ORUS in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

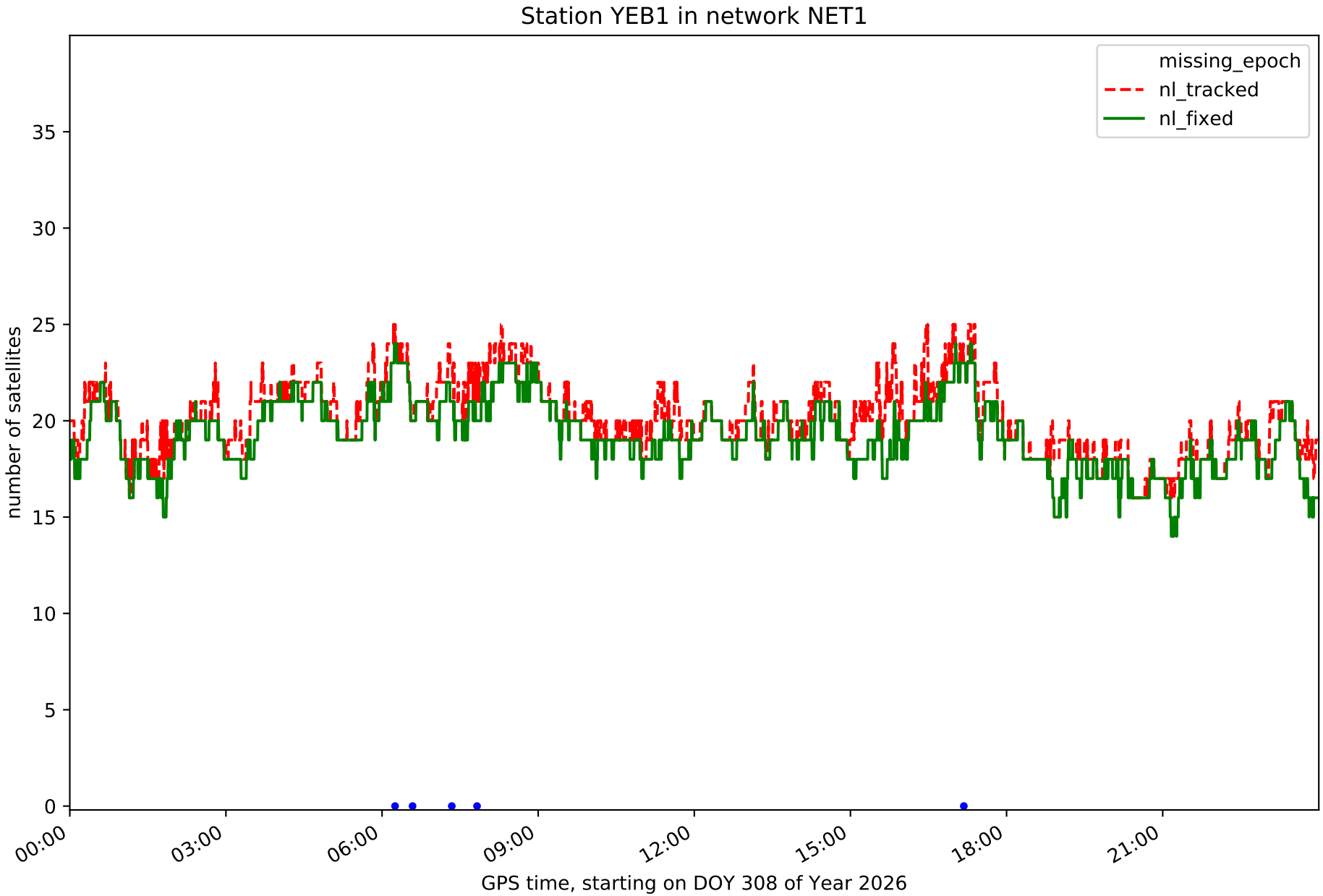

Station PEN1 in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

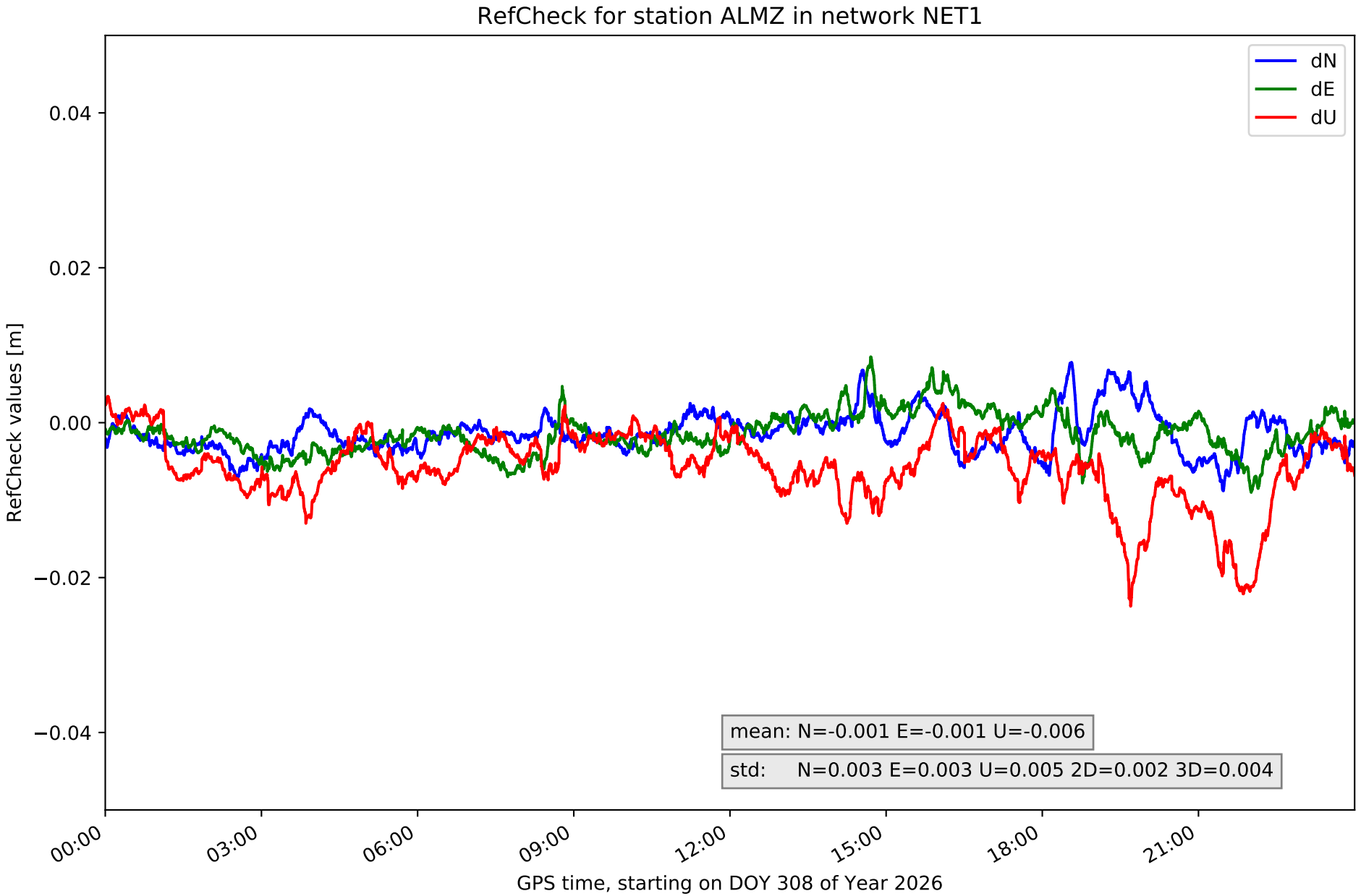

Station RIA1 in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

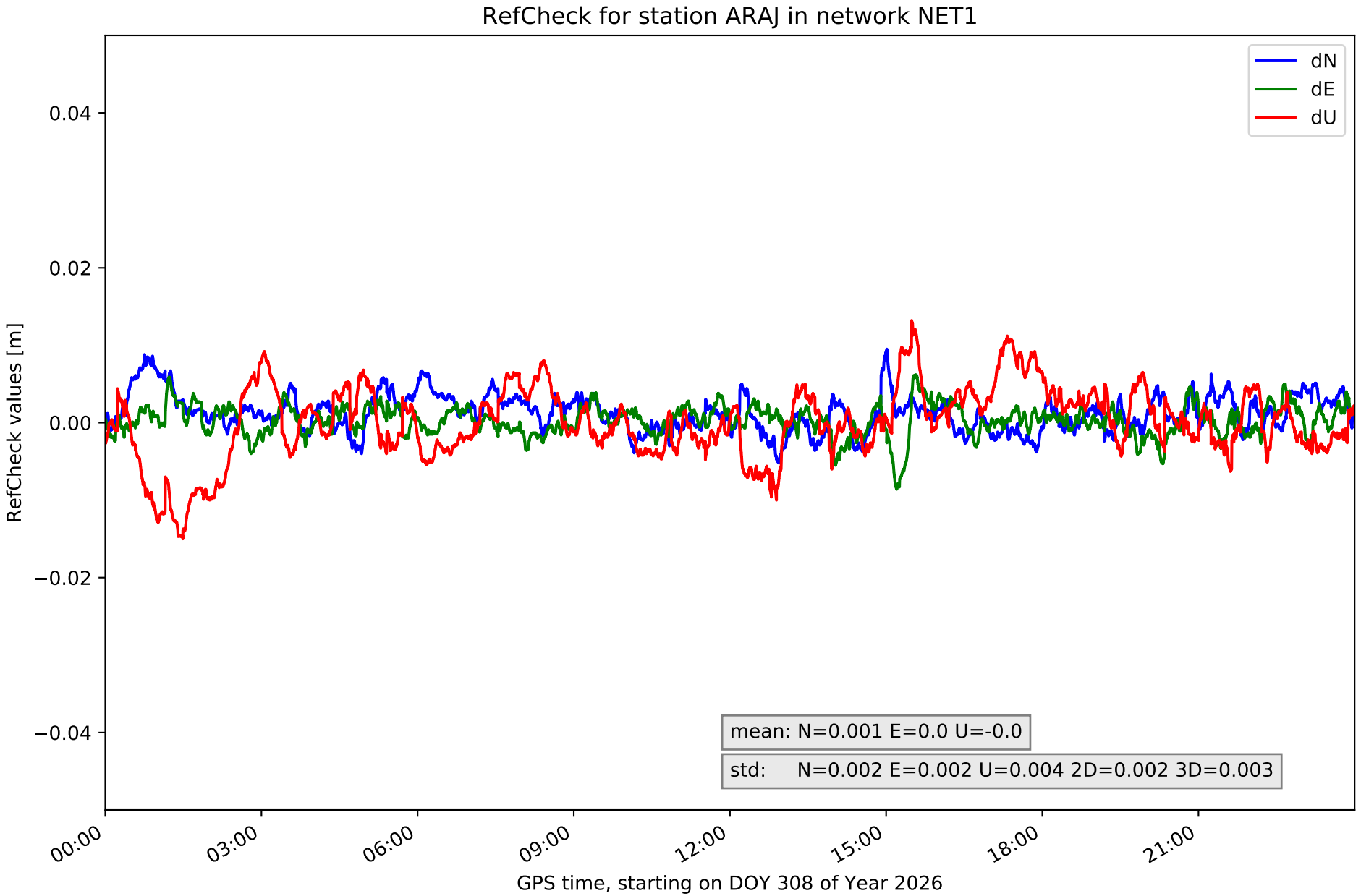

Station SGVA in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

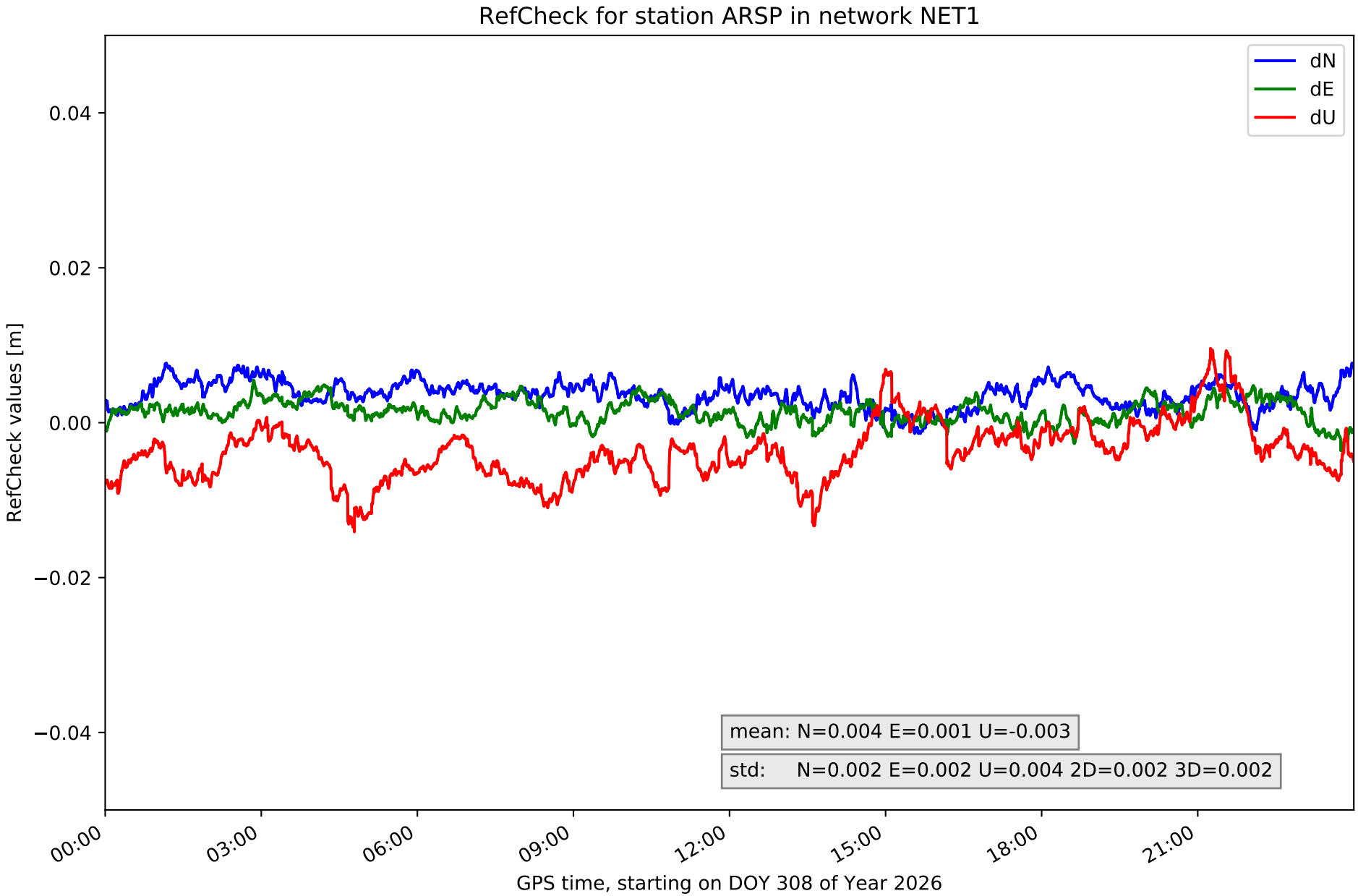

Station SMDV in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

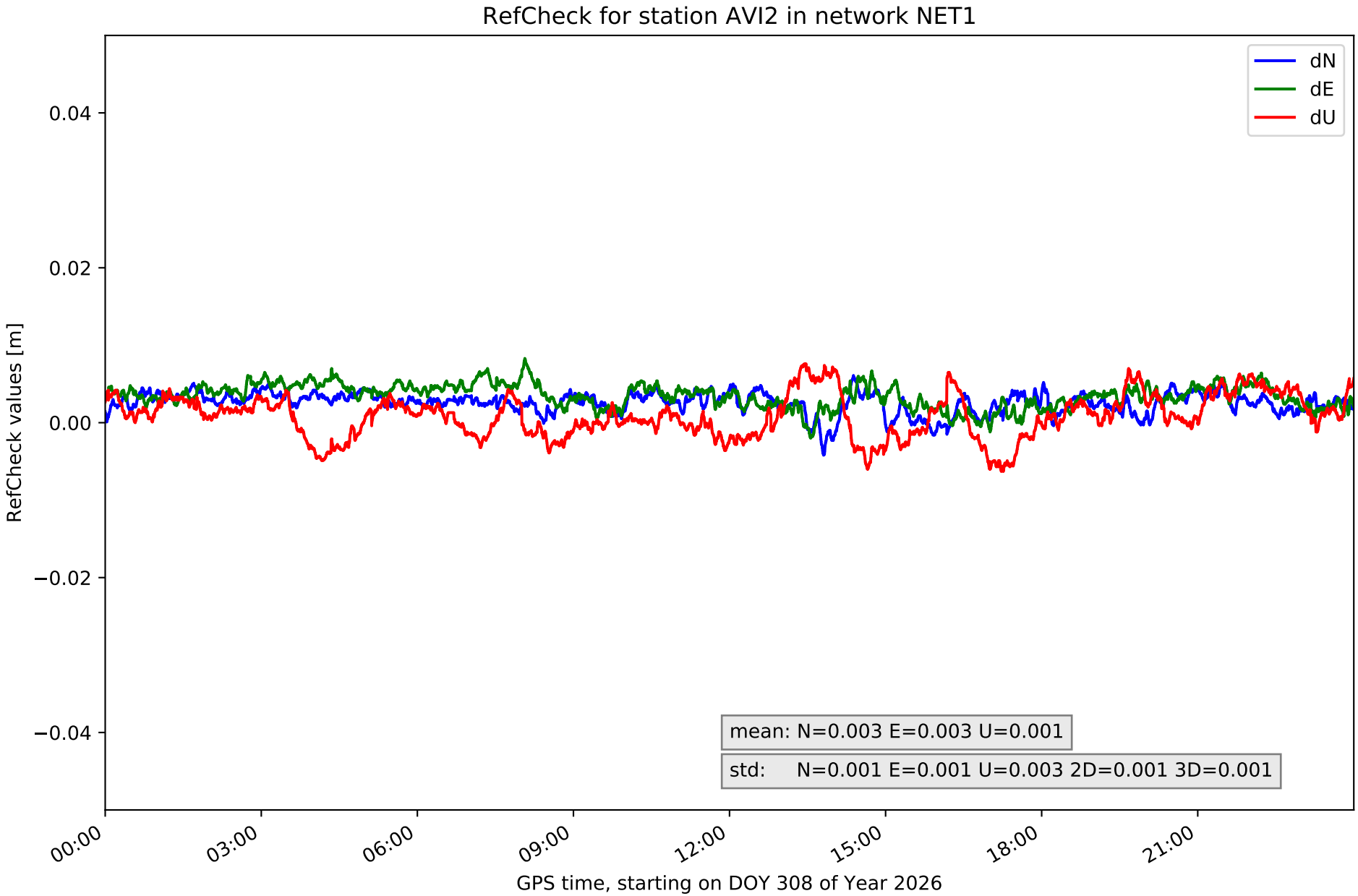

Station TALV in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

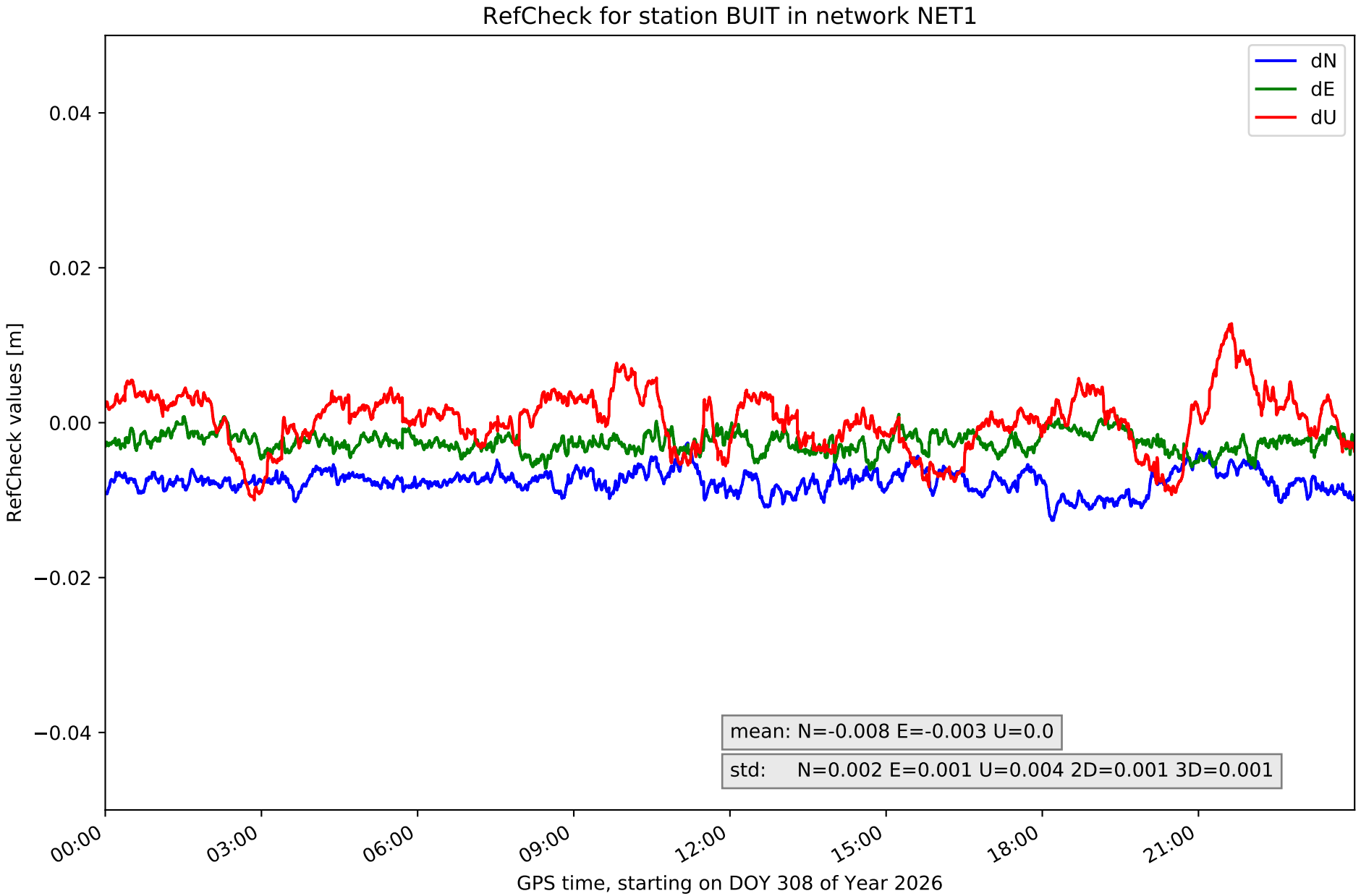

Station YEB1 in network NET1
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

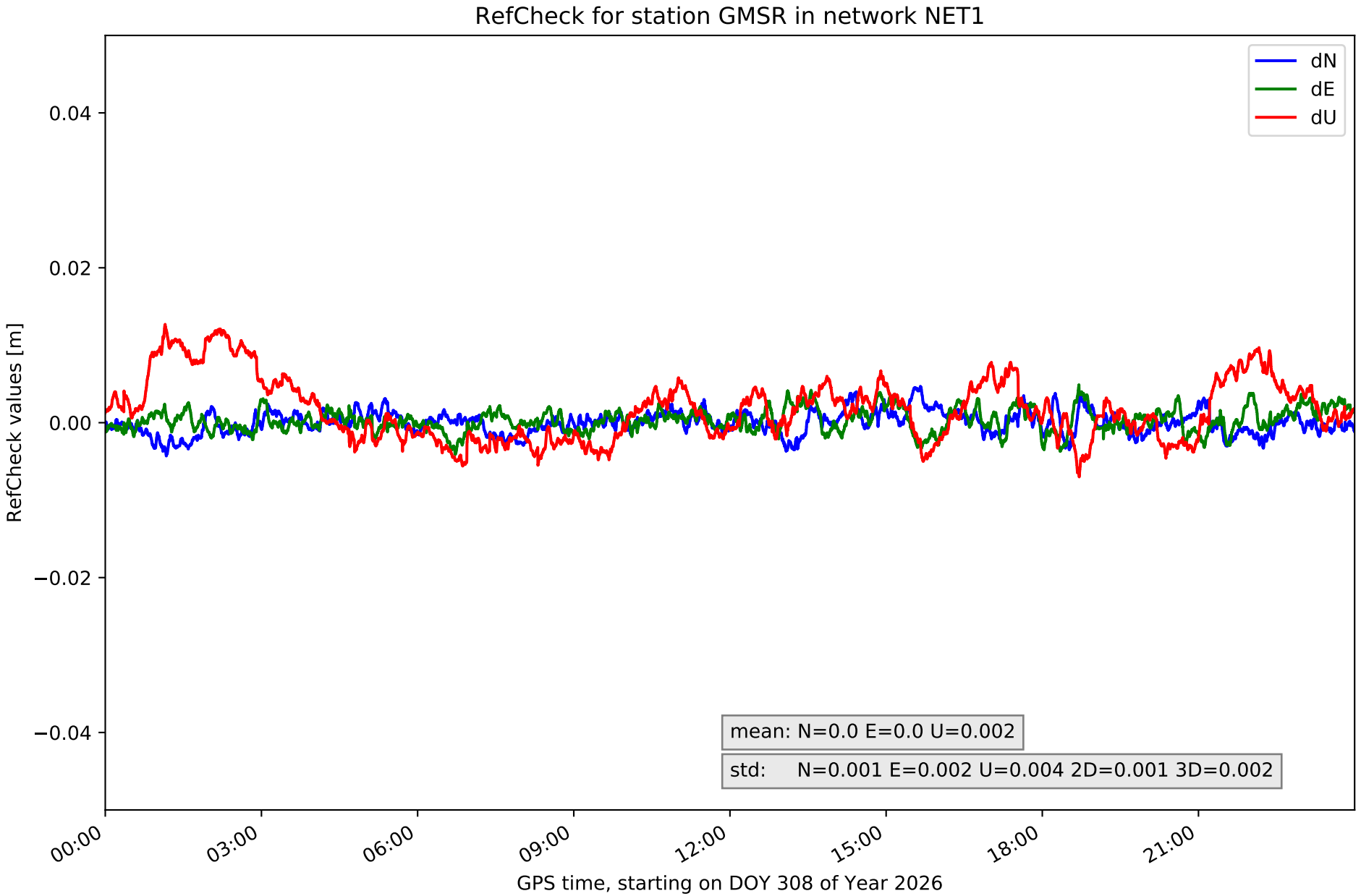

RefCheck for station ALMZ in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.001 U=-0.006
std: N=0.003 E=0.003 U=0.005 2D=0.002 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

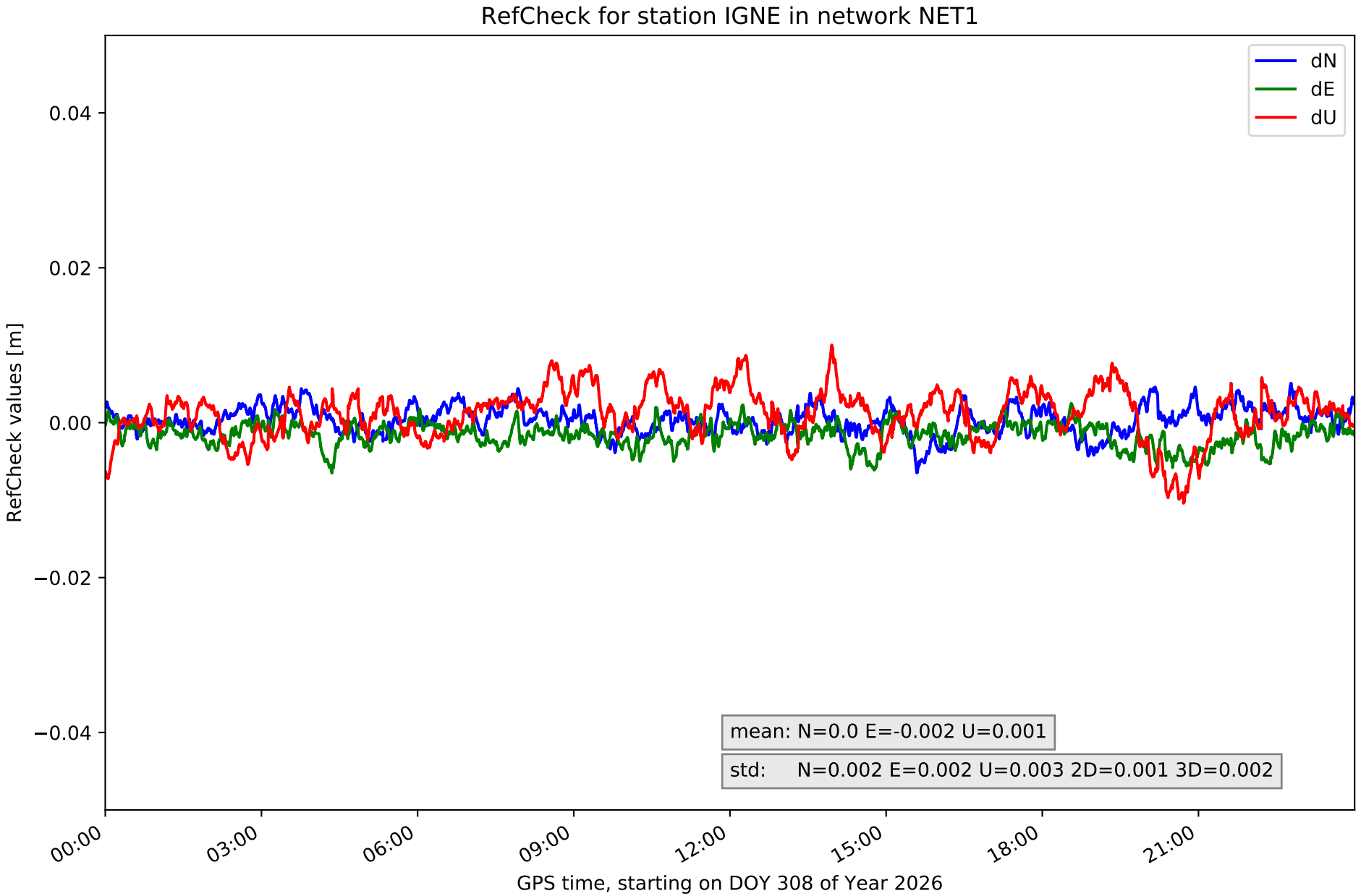

RefCheck for station ARAJ in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=0.0 U=-0.0
std: N=0.002 E=0.002 U=0.004 2D=0.002 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

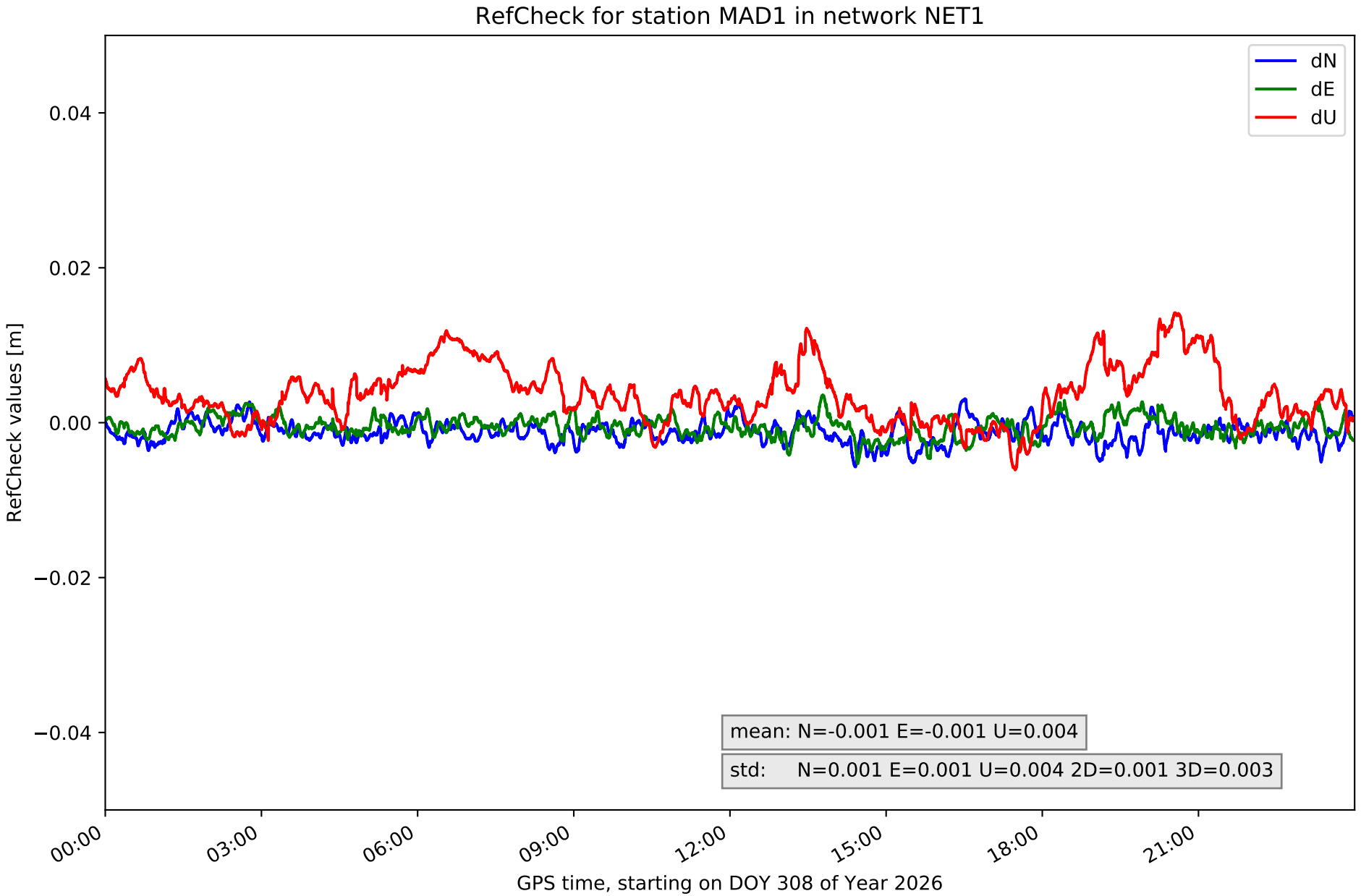

RefCheck for station ARSP in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.004 E=0.001 U=-0.003
std: N=0.002 E=0.002 U=0.004 2D=0.002 3D=0.002
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

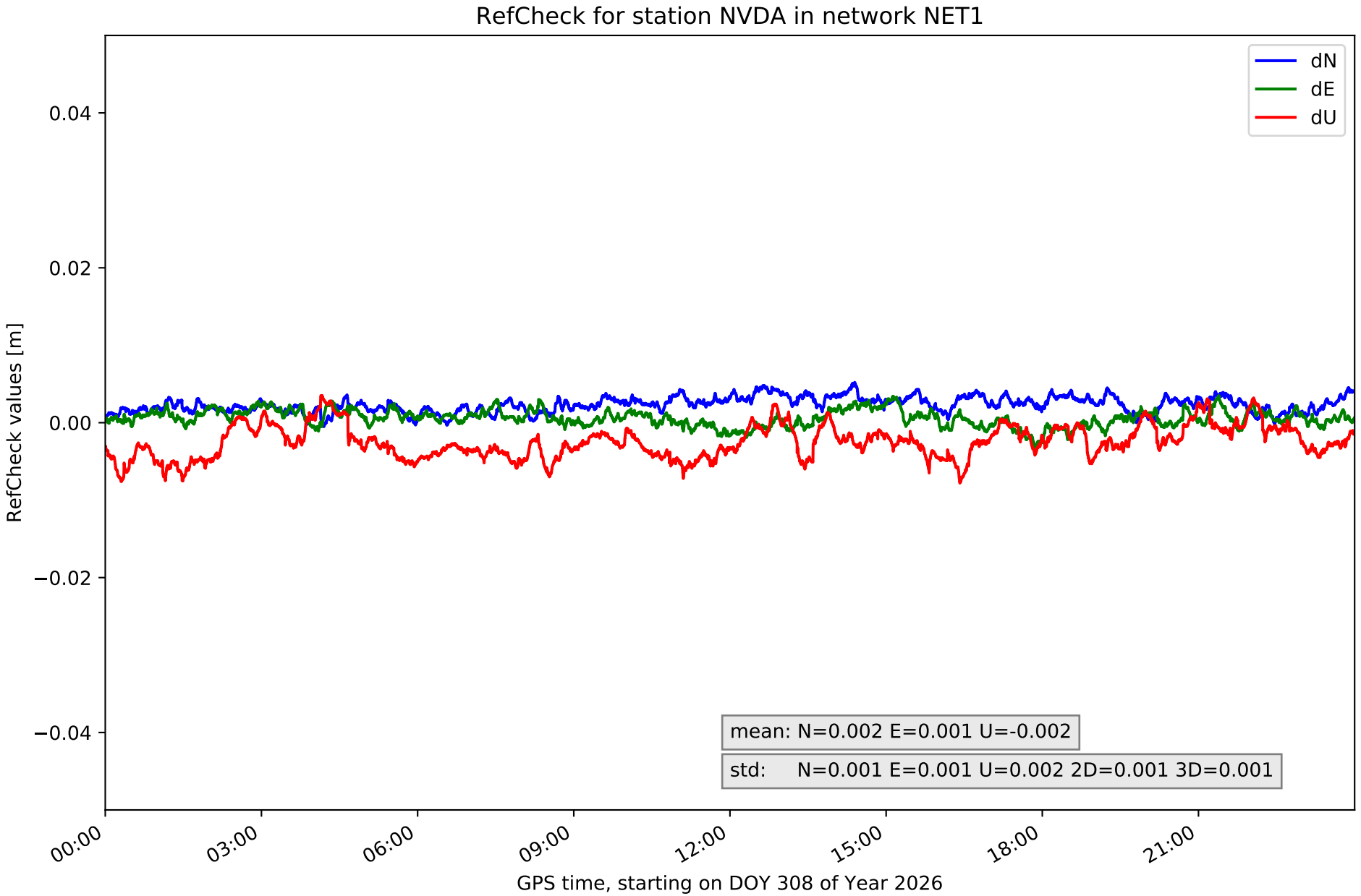

RefCheck for station AVI2 in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.003 E=0.003 U=0.001
std: N=0.001 E=0.001 U=0.003 2D=0.001 3D=0.001
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

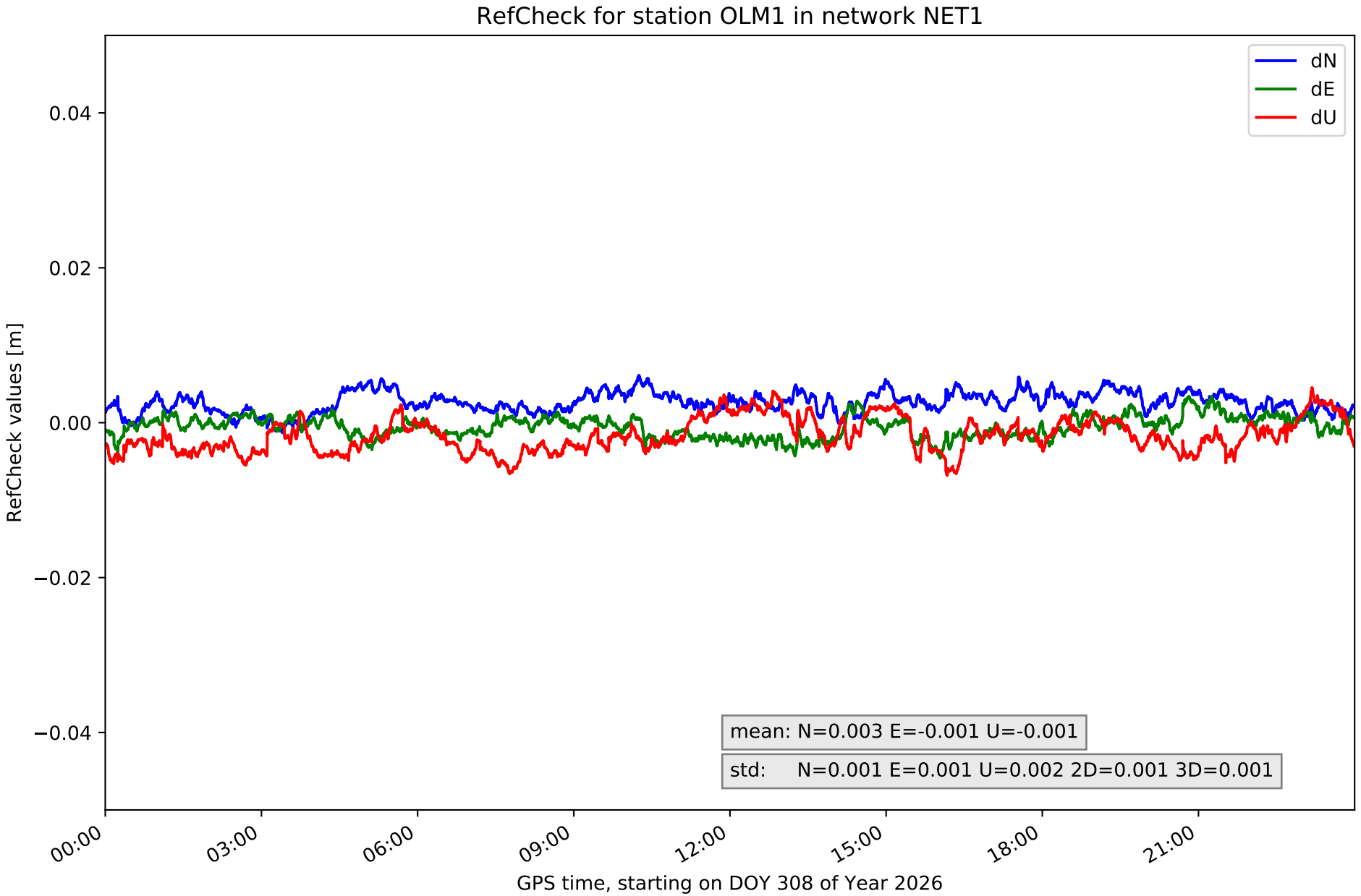

RefCheck for station BUIT in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.008 E=-0.003 U=0.0
std: N=0.002 E=0.001 U=0.004 2D=0.001 3D=0.001
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

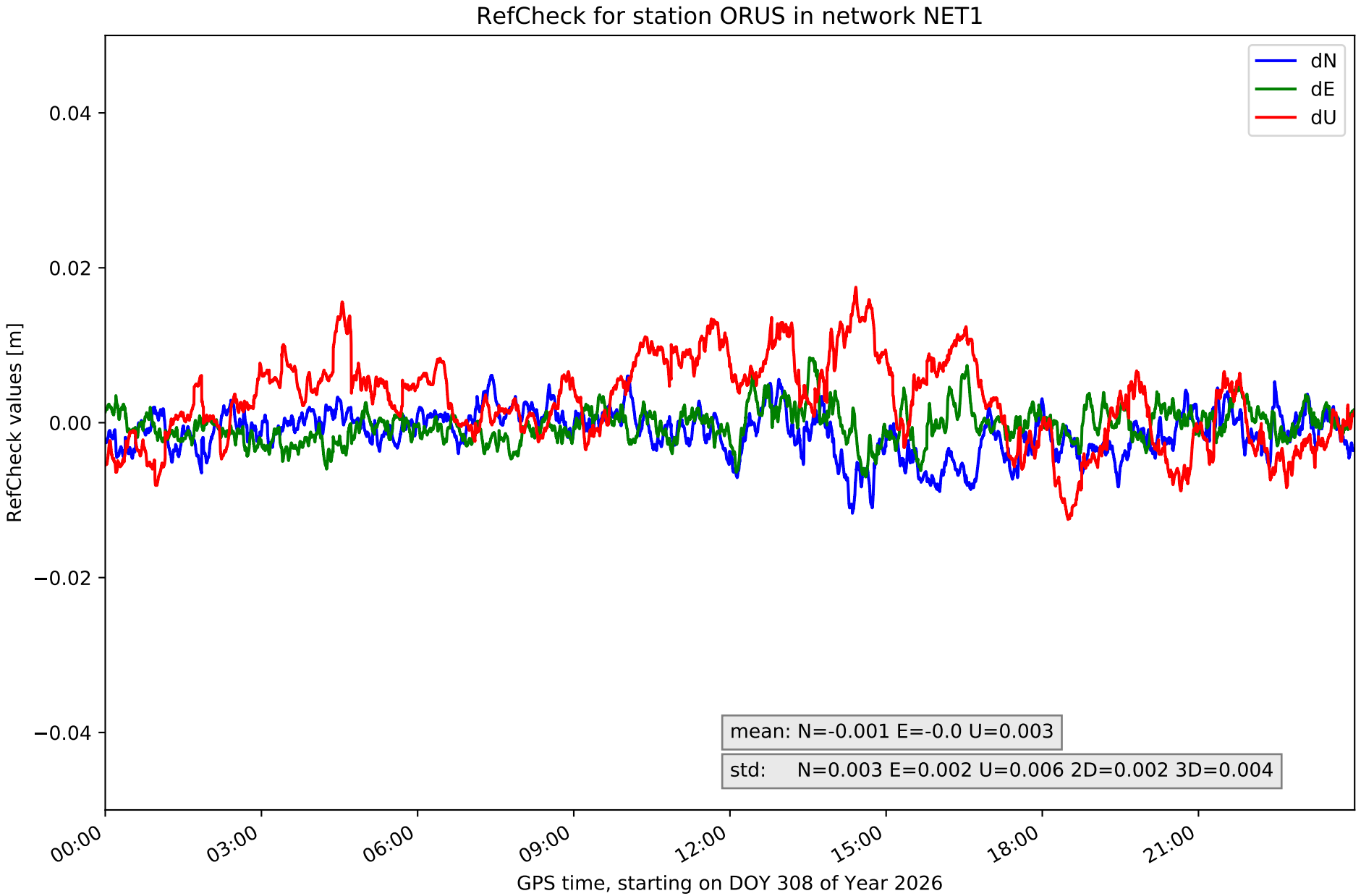

RefCheck for station GMSR in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.0 E=0.0 U=0.002
std: N=0.001 E=0.002 U=0.004 2D=0.001 3D=0.002
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

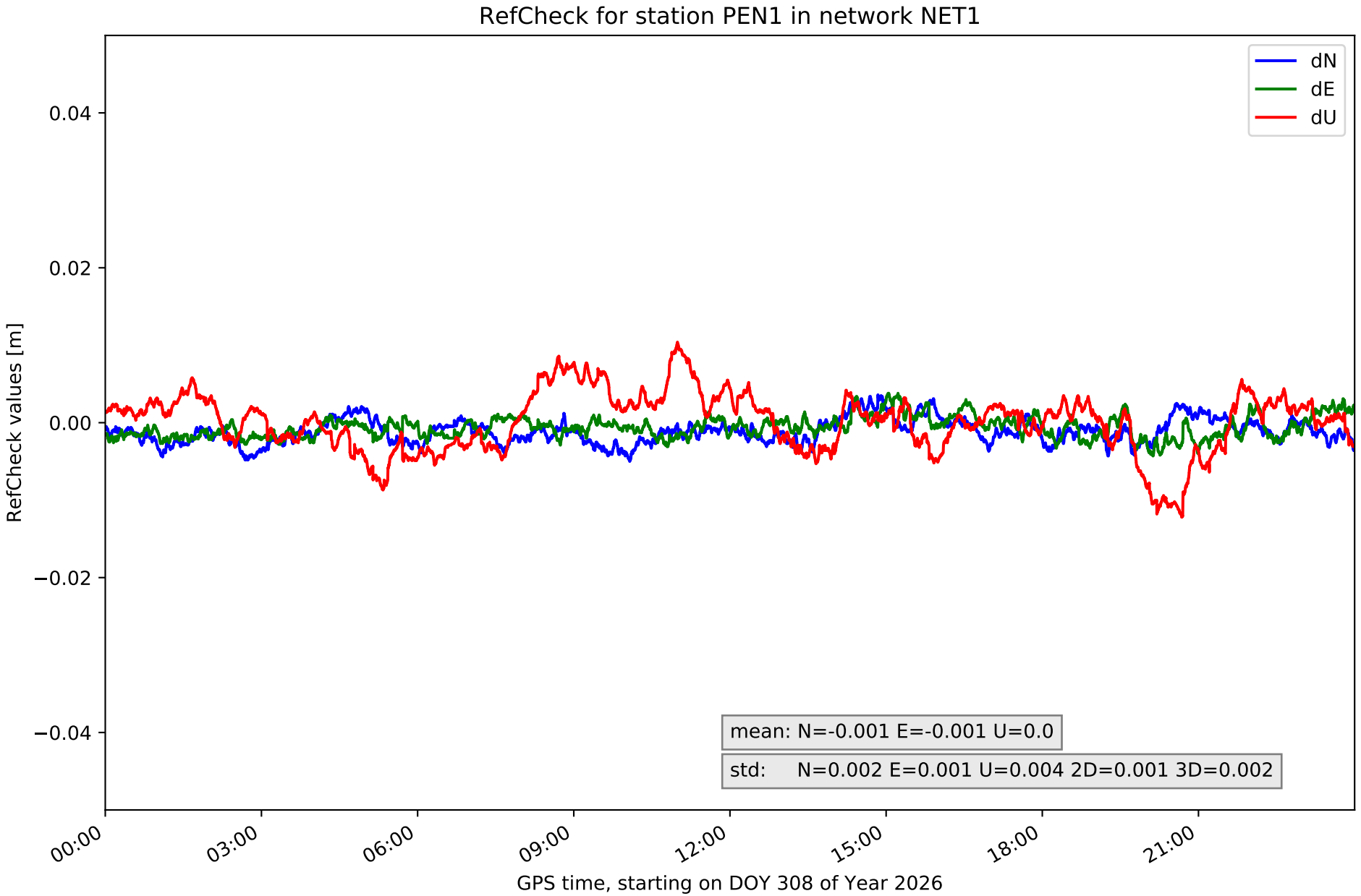

RefCheck for station IGNE in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.0 E=-0.002 U=0.001
std: N=0.002 E=0.002 U=0.003 2D=0.001 3D=0.002
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

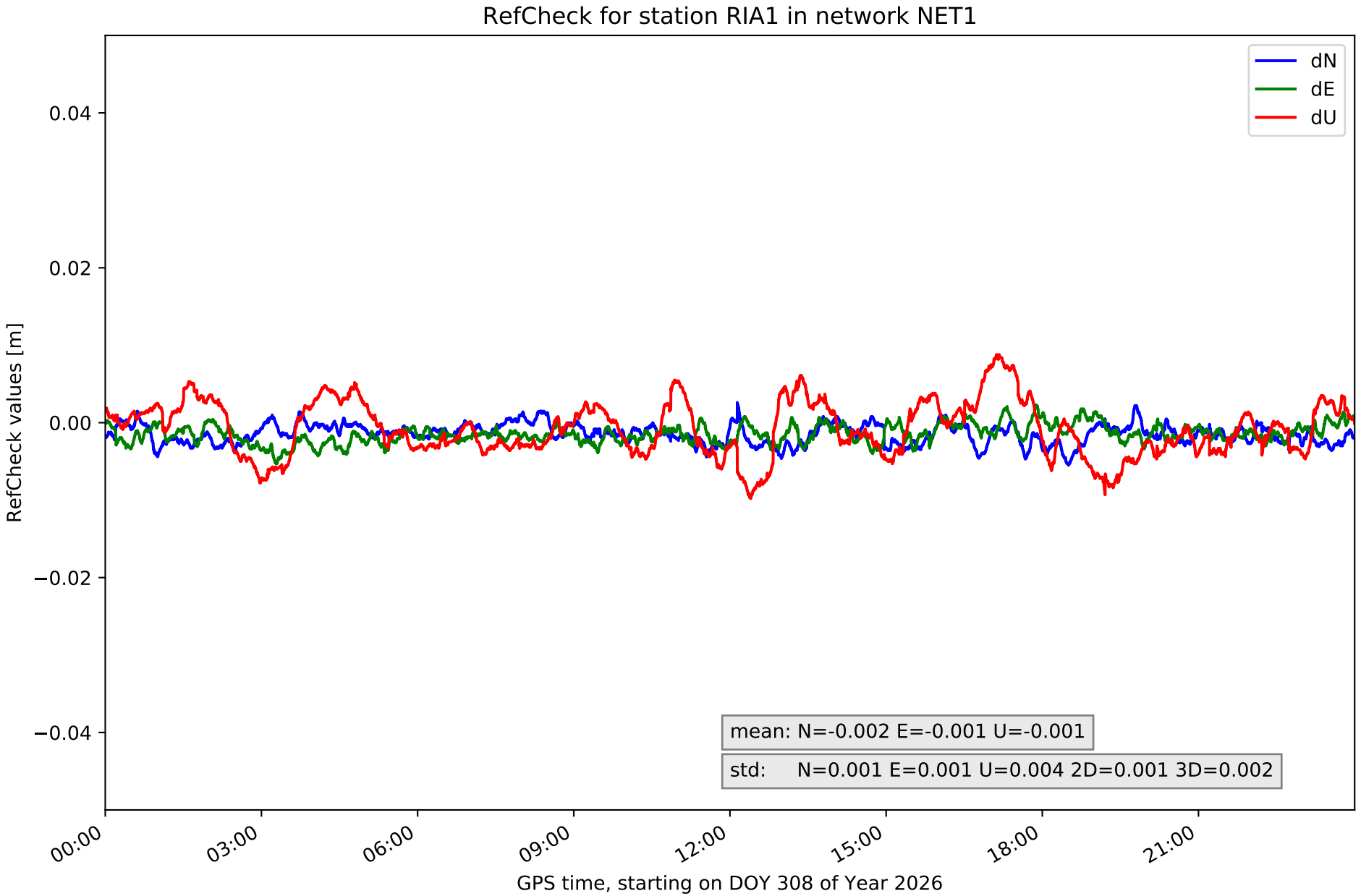

RefCheck for station MAD1 in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.001 U=0.004
std: N=0.001 E=0.001 U=0.004 2D=0.001 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

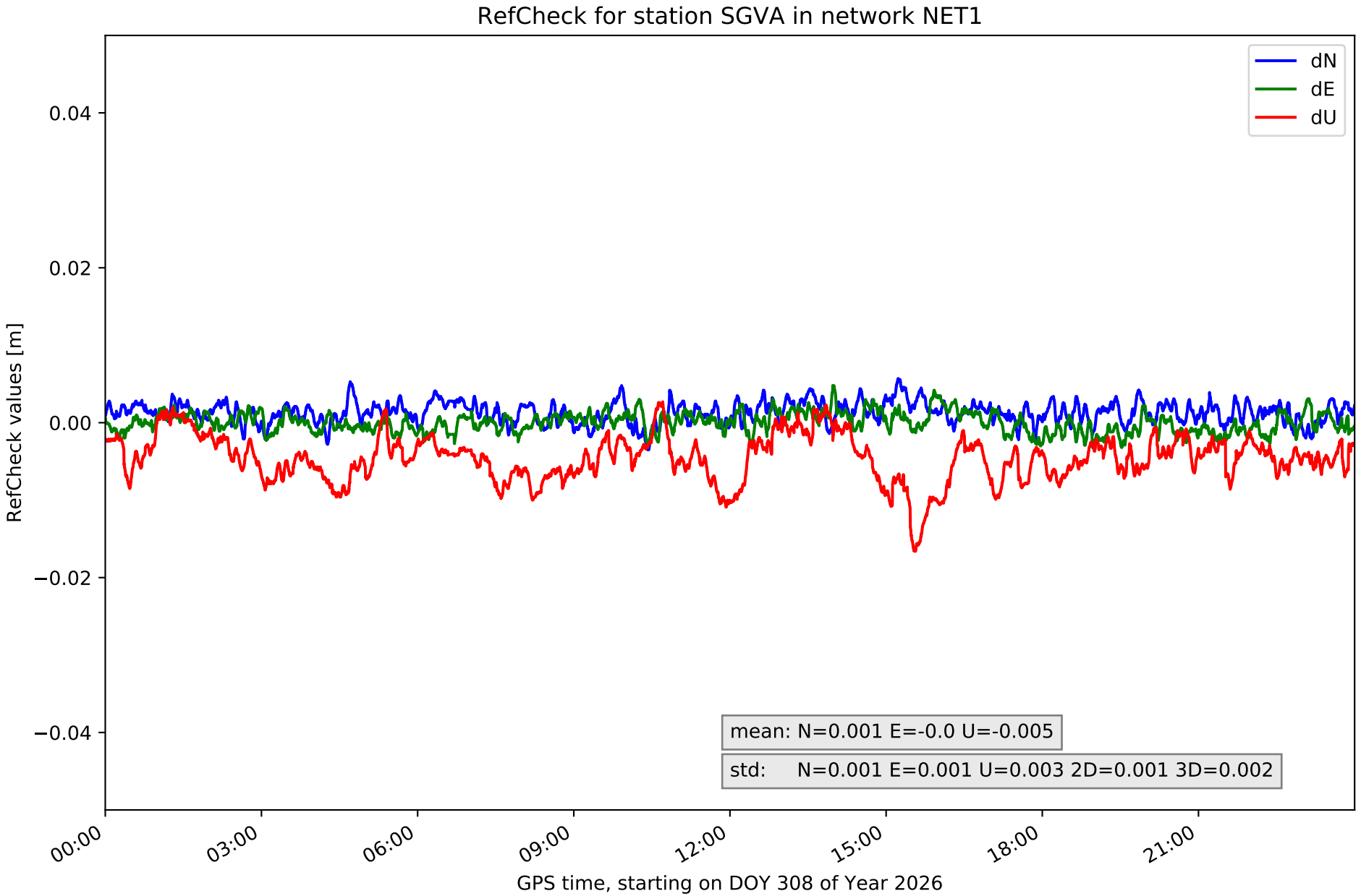

RefCheck for station NVDA in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.002 E=0.001 U=-0.002
std: N=0.001 E=0.001 U=0.002 2D=0.001 3D=0.001
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

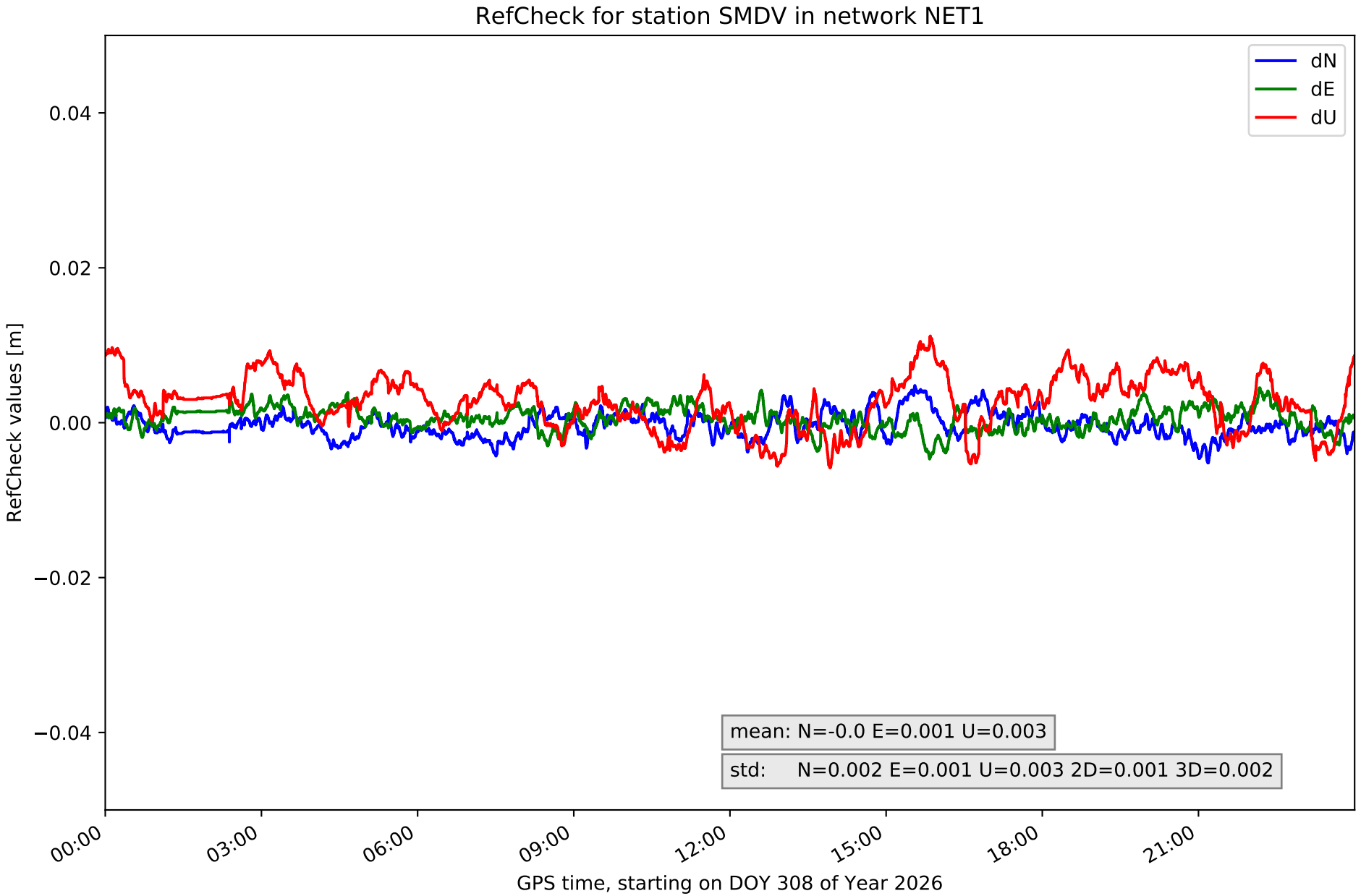

RefCheck for station OLM1 in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.003 E=-0.001 U=-0.001
std: N=0.001 E=0.001 U=0.002 2D=0.001 3D=0.001
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

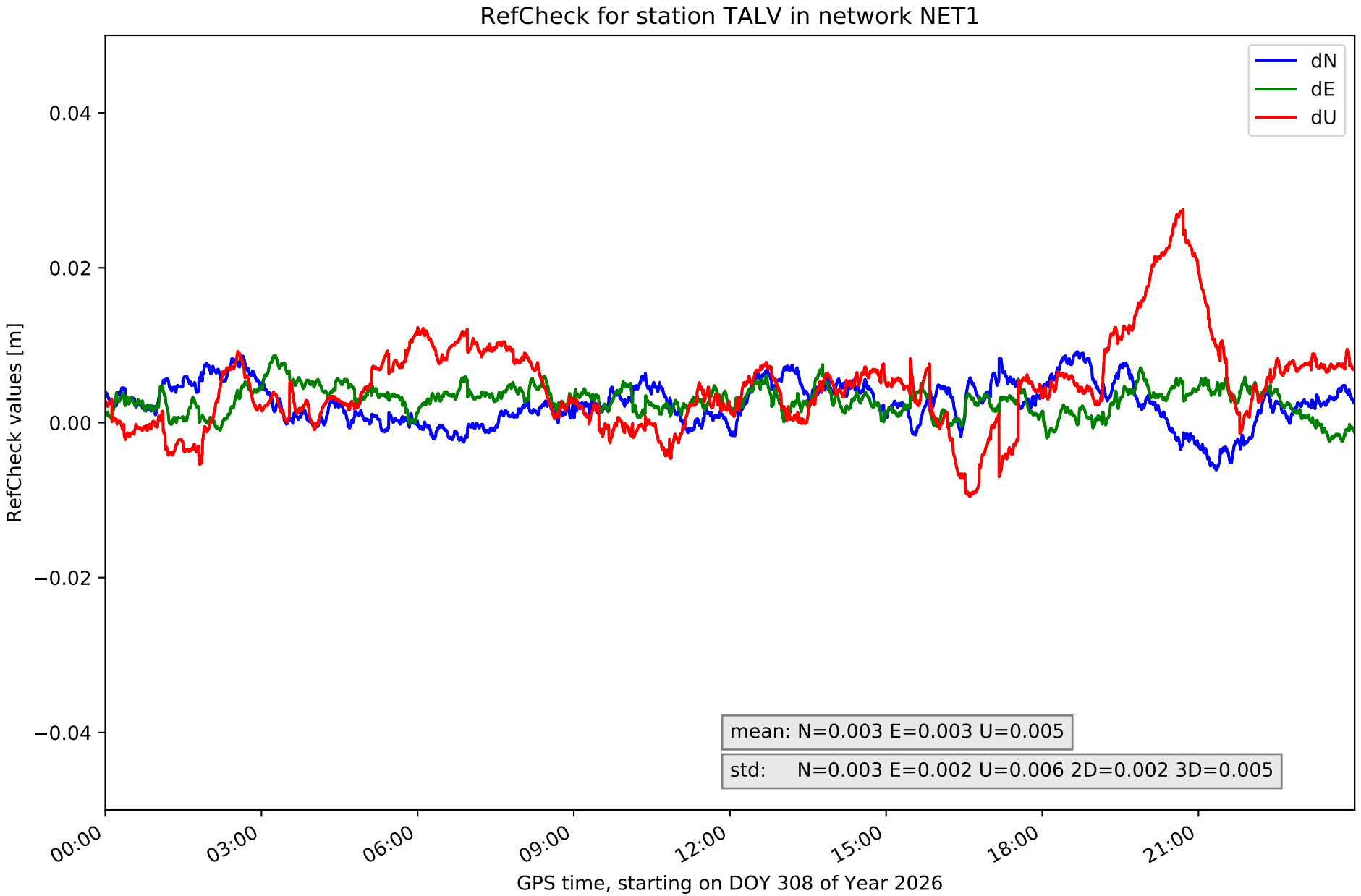

RefCheck for station ORUS in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.0 U=0.003
std: N=0.003 E=0.002 U=0.006 2D=0.002 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026

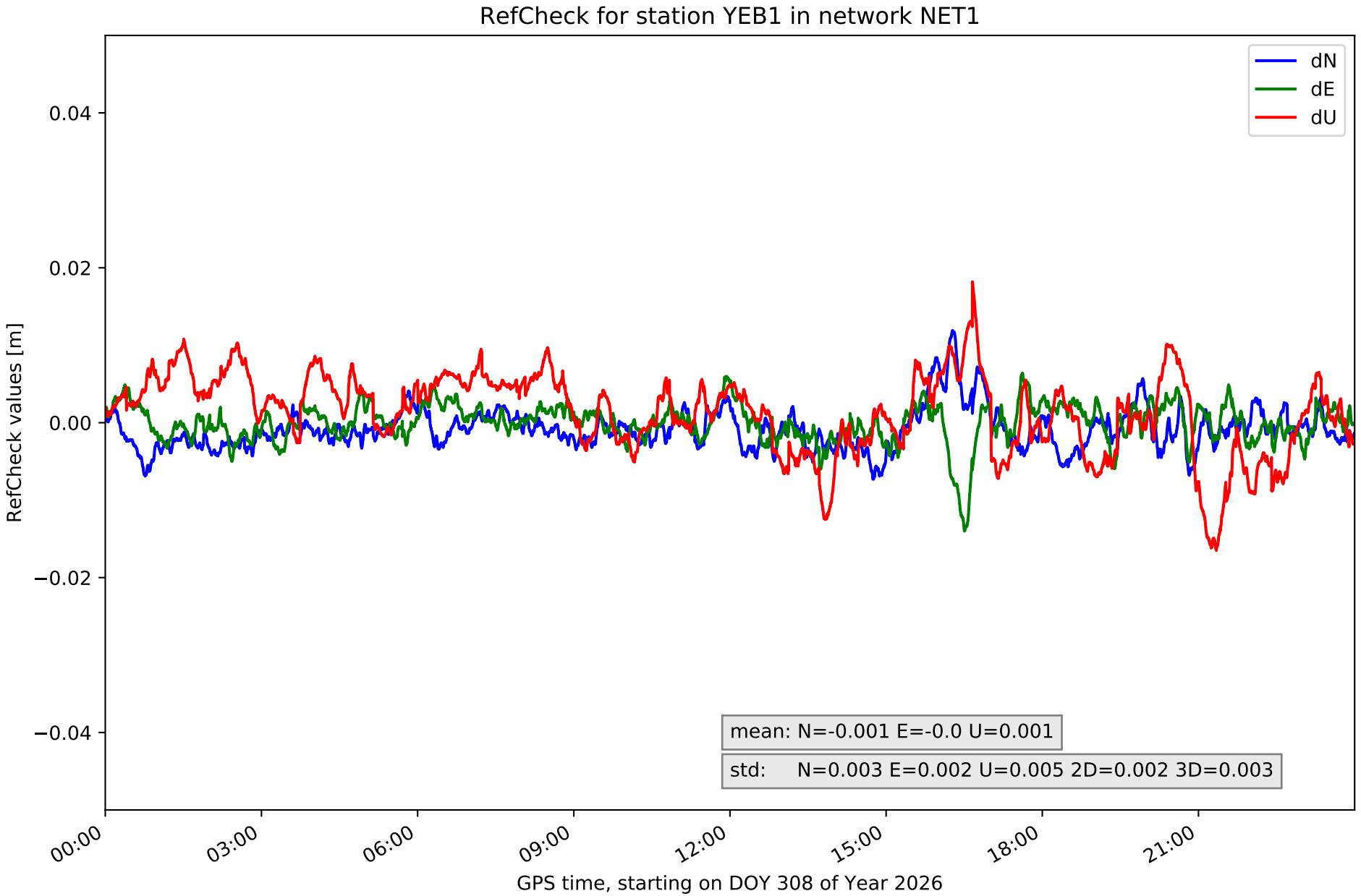

RefCheck for station PEN1 in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.001 U=0.0
std: N=0.002 E=0.001 U=0.004 2D=0.001 3D=0.002
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026


RefCheck for station RIA1 in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.002 E=-0.001 U=-0.001
std: N=0.001 E=0.001 U=0.004 2D=0.001 3D=0.002
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026


RefCheck for station SGVA in network NET1
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=0.001 E=0.001 U=0.003 2D=0.001 3D=0.002
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026


RefCheck for station SMDV in network NET1
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=0.002 E=0.001 U=0.003 2D=0.001 3D=0.002
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 308 of Year 2026


RefCheck for station TALV in network NET1
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.003 E=0.003 U=0.005
std: N=0.003 E=0.002 U=0.006 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 308 of Year 2026


RefCheck for station YEB1 in network NET1
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 308 of Year 2026

# RefCheck values for network NET1

| Station | Nmin | Nmax | Nstd | Emin | Emax | Estd | Umin | Umax | Ustd | std2D | std3D | #2D > 0.01 | % 2D > 0.01 | #3D > 0.02 | % 3D > 0.02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALMZ | -0.009 | 0.008 | **0.003** | -0.009 | **0.009** | **0.003** | **-0.024** | 0.003 | 0.005 | **0.002** | 0.004 | 0 | 0.0 | 2089 | 3.3 |
| ARAJ | -0.005 | 0.009 | 0.002 | -0.009 | 0.006 | 0.002 | -0.015 | 0.013 | 0.004 | **0.002** | 0.003 | 0 | 0.0 | 0 | 0.0 |
| ARSP | -0.001 | 0.008 | 0.002 | -0.004 | 0.005 | 0.002 | -0.014 | 0.01 | 0.004 | **0.002** | 0.002 | 0 | 0.0 | 0 | 0.0 |
| AVI2 | -0.004 | 0.006 | 0.001 | -0.002 | 0.008 | 0.001 | -0.006 | 0.008 | 0.003 | 0.001 | 0.001 | 0 | 0.0 | 0 | 0.0 |
| BUIT | **-0.013** | -0.003 | 0.002 | -0.006 | 0.001 | 0.001 | -0.01 | 0.013 | 0.004 | 0.001 | 0.001 | **6460** | **10.1** | 0 | 0.0 |
| GMSR | -0.004 | 0.005 | 0.001 | -0.004 | 0.005 | 0.002 | -0.007 | 0.013 | 0.004 | 0.001 | 0.002 | 0 | 0.0 | 0 | 0.0 |
| IGNE | -0.006 | 0.005 | 0.002 | -0.006 | 0.003 | 0.002 | -0.01 | 0.01 | 0.003 | 0.001 | 0.002 | 0 | 0.0 | 0 | 0.0 |
| MAD1 | -0.006 | 0.003 | 0.001 | -0.005 | 0.004 | 0.001 | -0.006 | 0.014 | 0.004 | 0.001 | 0.003 | 0 | 0.0 | 0 | 0.0 |
| NVDA | -0.001 | 0.005 | 0.001 | -0.003 | 0.004 | 0.001 | -0.008 | 0.004 | 0.002 | 0.001 | 0.001 | 0 | 0.0 | 0 | 0.0 |
| OLM1 | -0.001 | 0.006 | 0.001 | -0.005 | 0.003 | 0.001 | -0.007 | 0.004 | 0.002 | 0.001 | 0.001 | 0 | 0.0 | 0 | 0.0 |
| ORUS | -0.012 | 0.006 | **0.003** | -0.007 | 0.008 | 0.002 | -0.013 | 0.018 | **0.006** | **0.002** | 0.004 | 627 | 1.0 | 0 | 0.0 |
| PEN1 | -0.005 | 0.004 | 0.002 | -0.004 | 0.004 | 0.001 | -0.012 | 0.01 | 0.004 | 0.001 | 0.002 | 0 | 0.0 | 0 | 0.0 |
| RIA1 | -0.005 | 0.003 | 0.001 | -0.005 | 0.002 | 0.001 | -0.01 | 0.009 | 0.004 | 0.001 | 0.002 | 0 | 0.0 | 0 | 0.0 |
| SGVA | -0.004 | 0.006 | 0.001 | -0.003 | 0.005 | 0.001 | -0.017 | 0.003 | 0.003 | 0.001 | 0.002 | 0 | 0.0 | 0 | 0.0 |
| SMDV | -0.005 | 0.005 | 0.002 | -0.005 | 0.004 | 0.001 | -0.006 | 0.011 | 0.003 | 0.001 | 0.002 | 0 | 0.0 | 0 | 0.0 |
| TALV | -0.006 | 0.009 | **0.003** | -0.002 | **0.009** | 0.002 | -0.009 | **0.028** | **0.006** | **0.002** | **0.005** | 0 | 0.0 | **3282** | **5.1** |
| YEB1 | -0.007 | **0.012** | **0.003** | **-0.014** | 0.006 | 0.002 | -0.017 | 0.018 | 0.005 | **0.002** | 0.003 | 789 | 1.2 | 0 | 0.0 |
| **Mean** | **-0.006** | **0.006** | **0.002** | **-0.005** | **0.005** | **0.002** | **-0.011** | **0.011** | **0.004** | **0.001** | **0.002** | **463.3** | **0.7** | **315.9** | **0.5** |
| **Min/Max** | **-0.013** | **0.012** | **0.003** | **-0.014** | **0.009** | **0.003** | **-0.024** | **0.028** | **0.006** | **0.002** | **0.005** | **6460** | **10.1** | **3282** | **5.1** |

# fixing statistic for network NET1

| fixing percentage of | all GNSS | G | R | E | C |
|---|---|---|---|---|---|
| using threshold 0.3 | 95.2 | 95.9 | 96.2 | 96.3 | 92.5 |
| considering satellites with dual-frequency fixed | 94.2 | 95.2 | 95.1 | 95.3 | 90.4 |
| considering all signals separately | 94.2 | 95.2 | 95.1 | 95.4 | 89.2 |