# summary for network NET4

timeperiod chosen: from 2026-11-12-00:00:00 until 2026-11-12-23:59:59

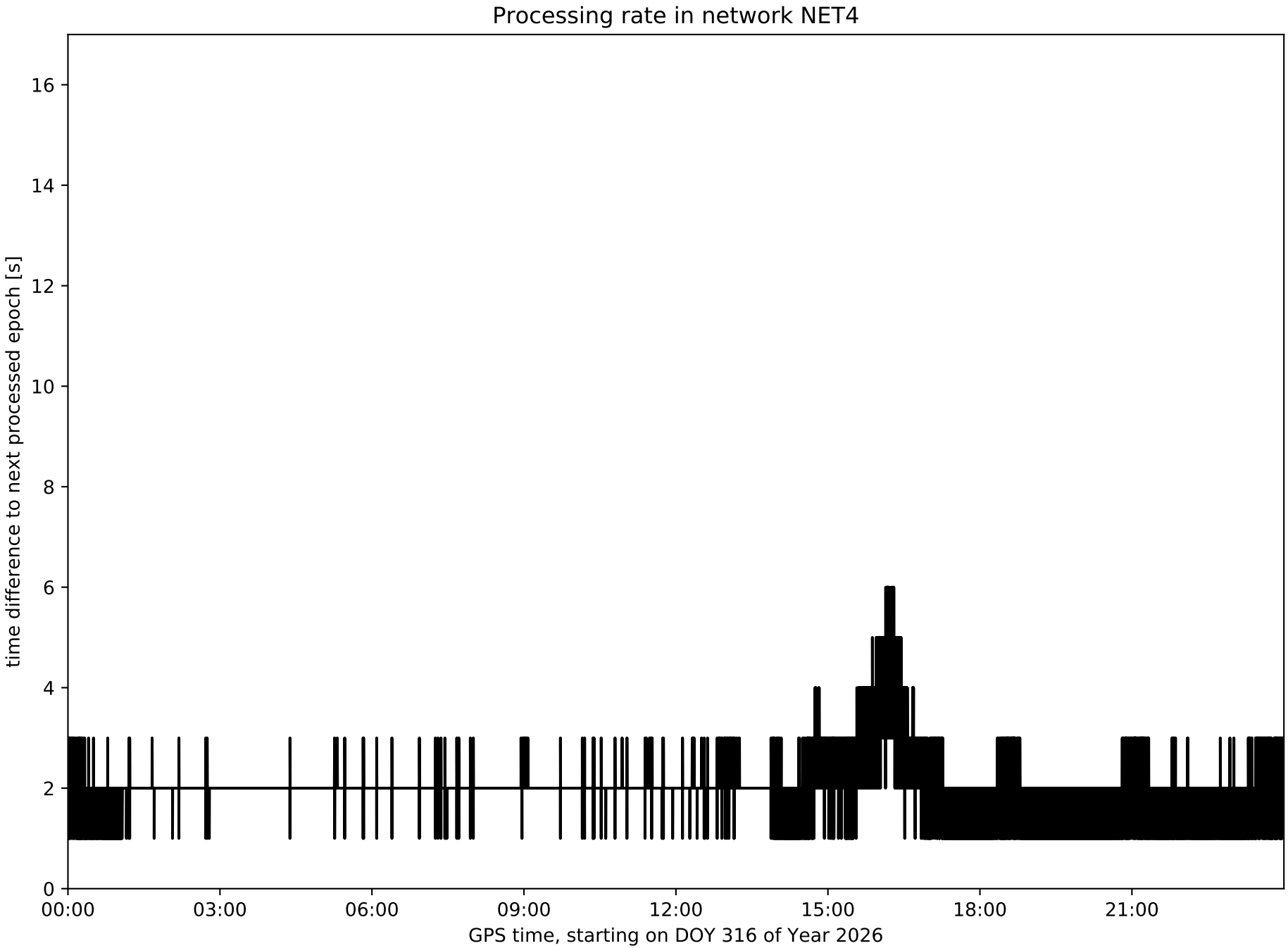
average update rate (durations larger than 15 seconds considered as observation gap): 1.7 seconds

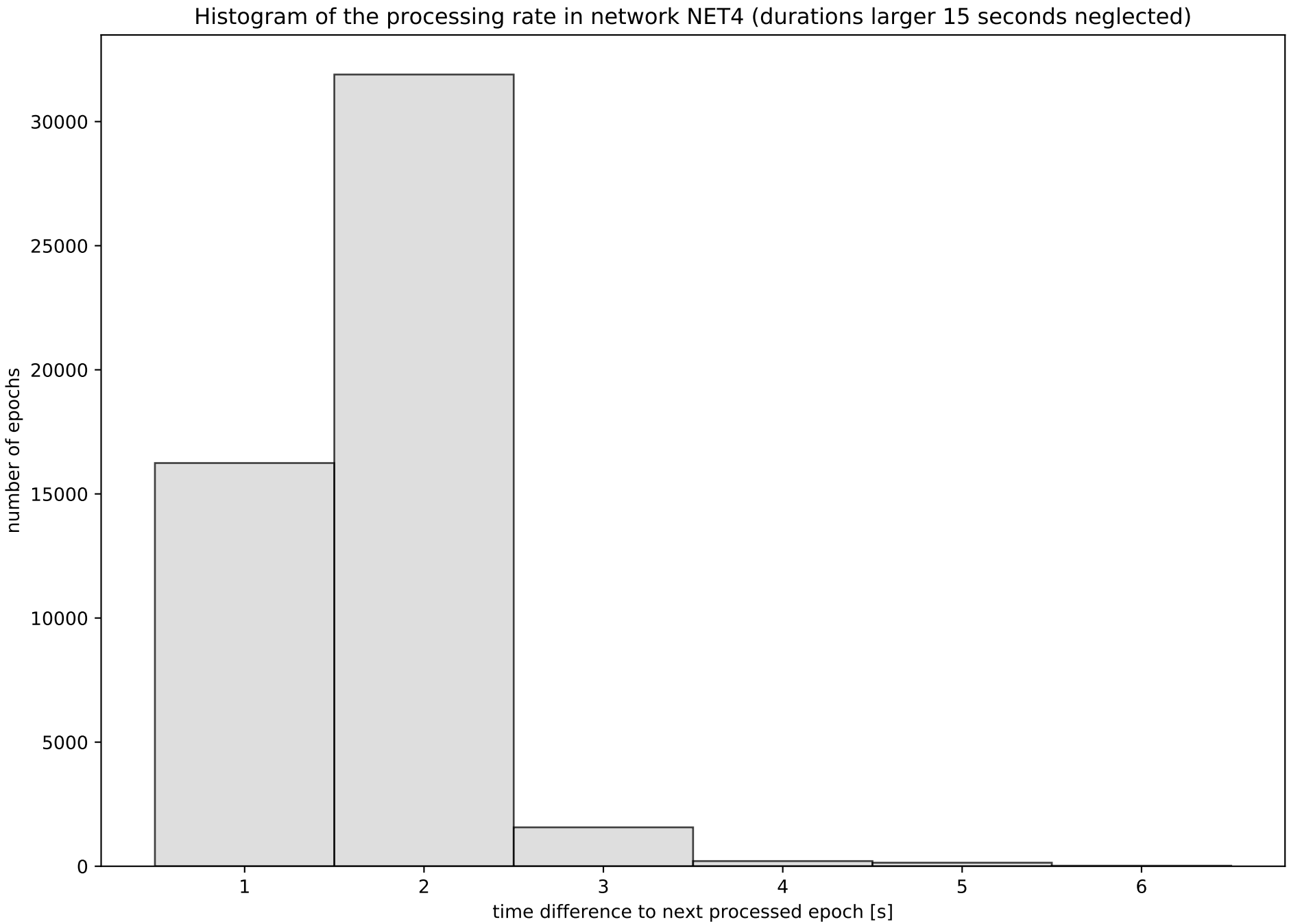
average fixing percentage with threshold set to 0.3: 92.6 percent

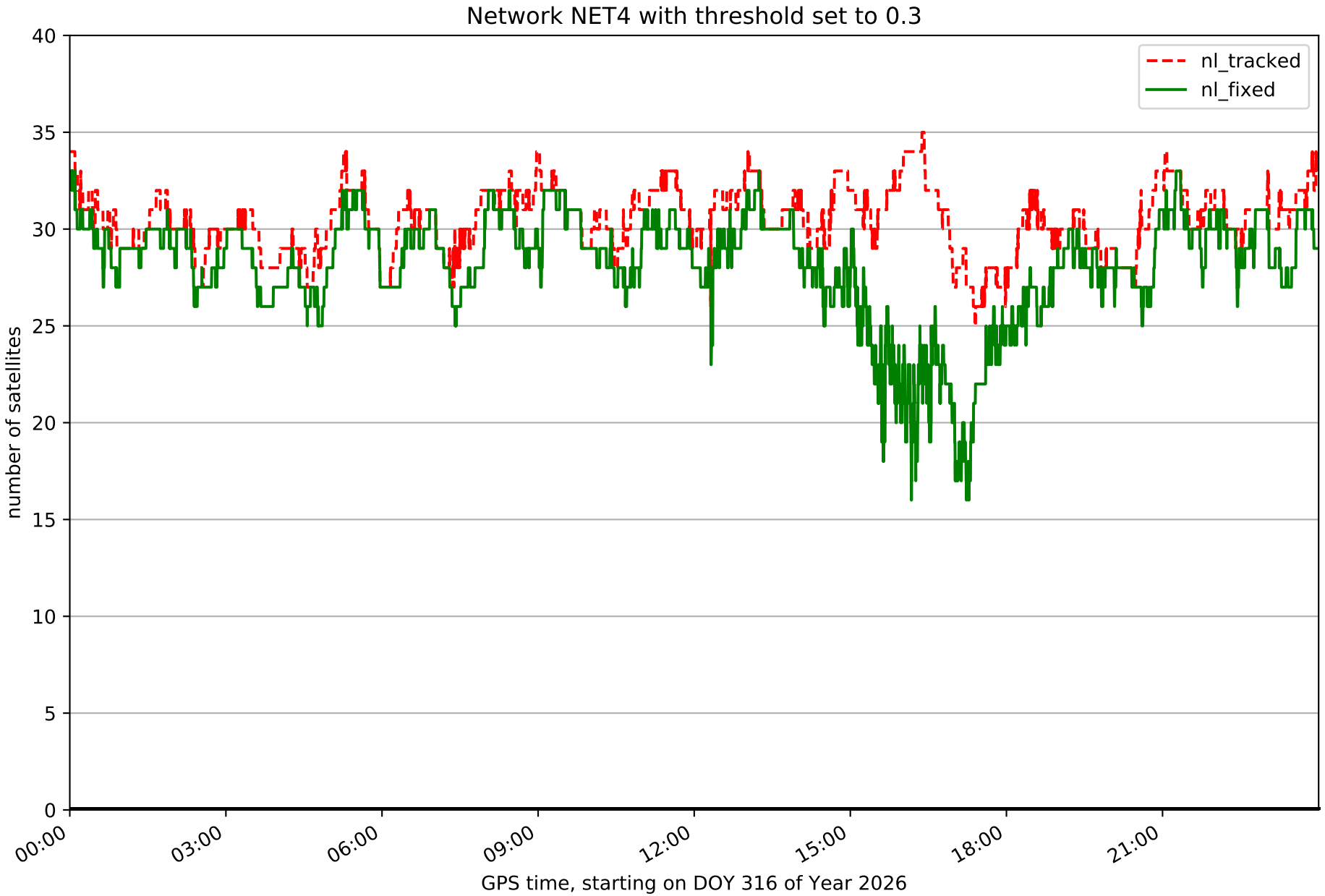
stations available: 18 of 18

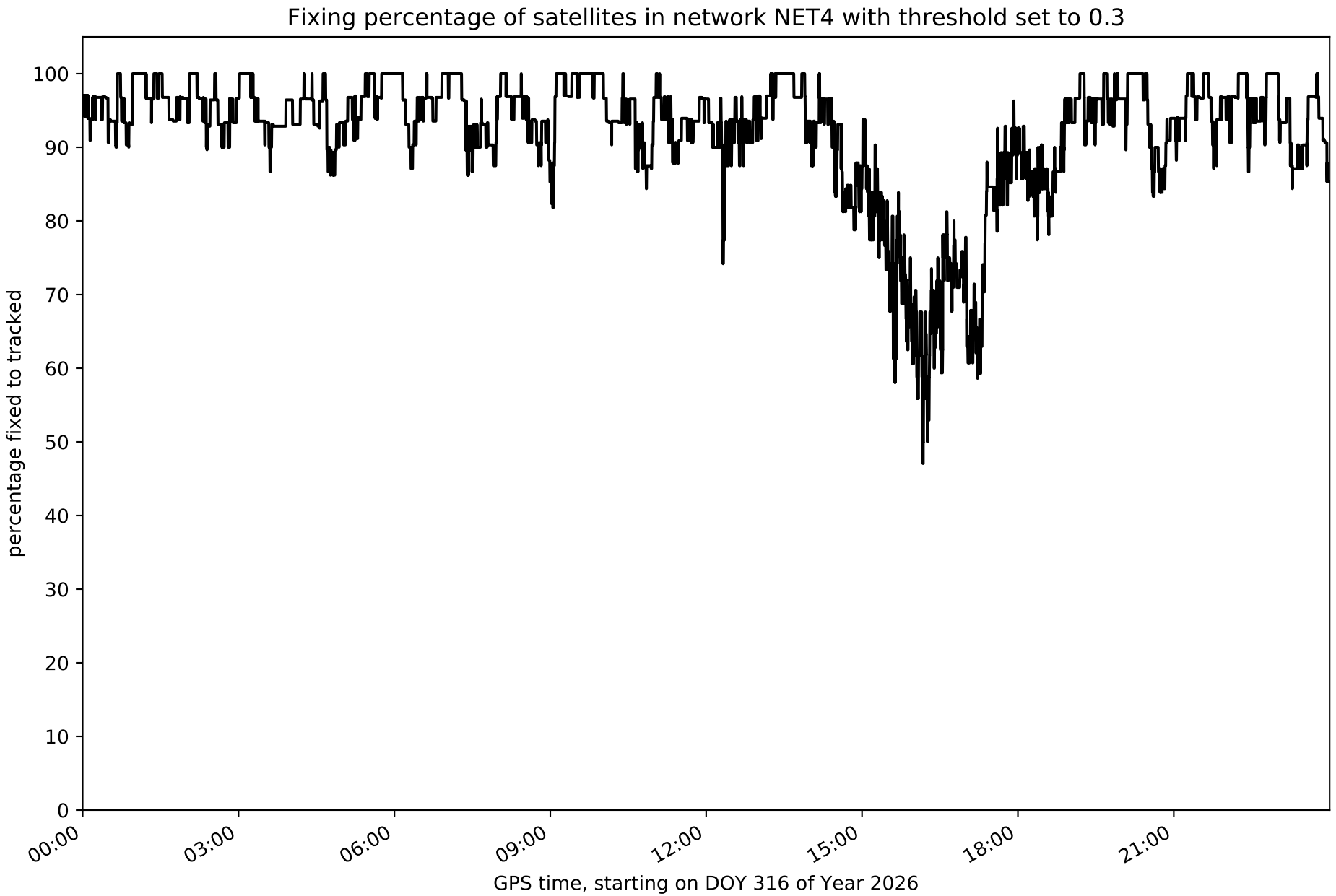
station information:

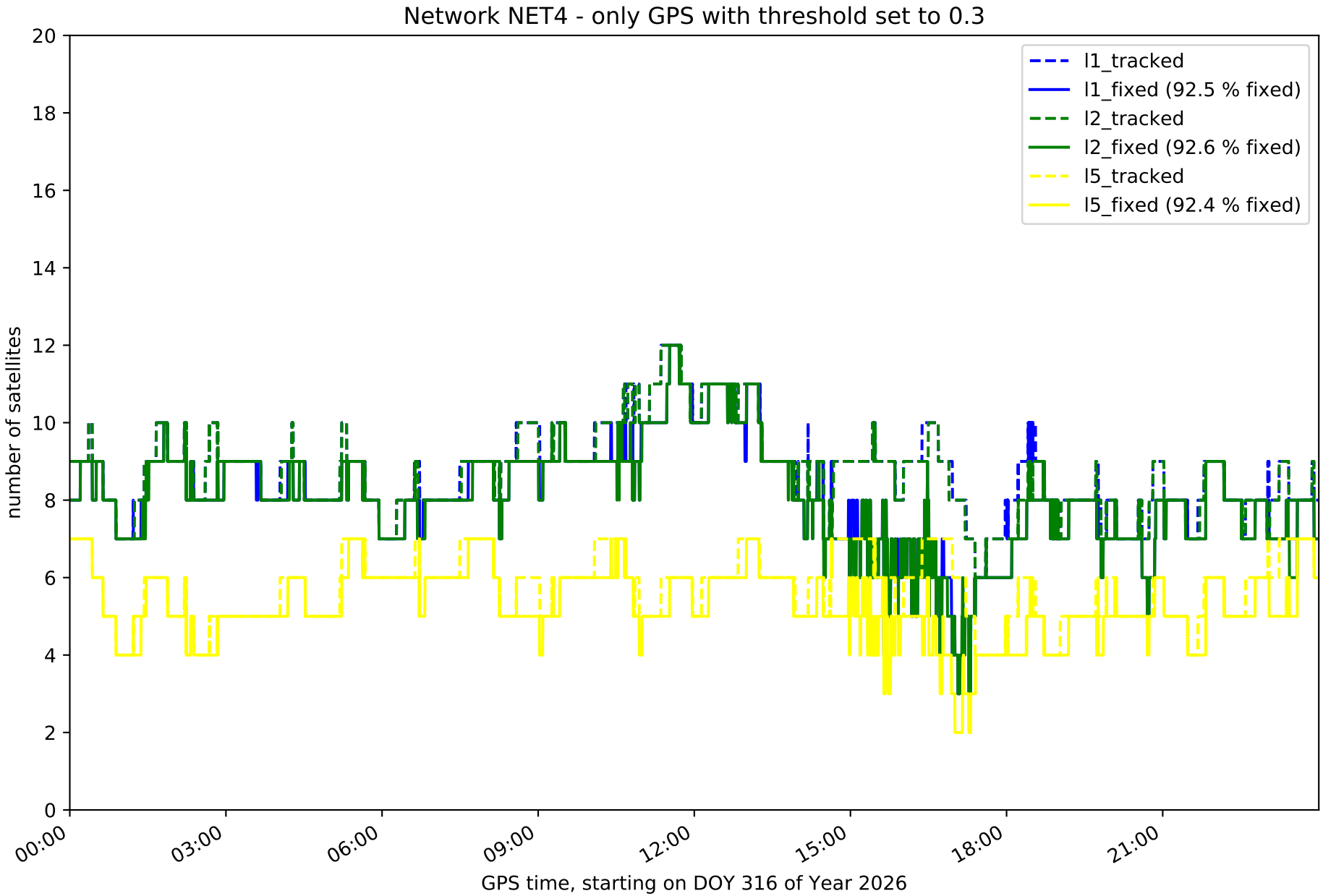
| | | | |
|---|---|---|---|
| station ACNS: | antenna: TRM59900.00 SCIS | receiver: TRIMBLE NETR9 | height: 871.276 |
| station CDRD: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 679.355 |
| station CRPO: | antenna: TRM59900.00 SCIS | receiver: TRIMBLE NETR9 | height: 827.901 |
| station GUIJ: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 1065.442 |
| station LERM: | antenna: TRM59900.00 SCIS | receiver: TRIMBLE NETR9 | height: 926.168 |
| station MDNR: | antenna: TRM59900.00 SCIS | receiver: TRIMBLE NETR9 | height: 811.477 |
| station MYRG: | antenna: TRM59900.00 SCIS | receiver: TRIMBLE NETR9 | height: 843.89 |
| station PALE: | antenna: TRM59900.00 SCIS | receiver: TRIMBLE NETR9 | height: 797.586 |
| station PDB1: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 970.977 |
| station SALA: | antenna: LEIAR25 NONE | receiver: LEICA GR50 | height: 855.015 |
| station SALD: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 971.364 |
| station STVD: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 807.536 |
| station TORO: | antenna: TRM59900.00 SCIS | receiver: TRIMBLE NETR9 | height: 806.926 |
| station VALA: | antenna: LEIAR25.R3 NONE | receiver: LEICA GR30 | height: 765.885 |
| station VLFF: | antenna: GPPNULLANTENNA NONE | receiver: LEICA GR50 | height: 746.793 |
| station VNAN: | antenna: TRM59900.00 SCIS | receiver: TRIMBLE NETR9 | height: 864.285 |
| station VTGD: | antenna: TRM59900.00 SCIS | receiver: TRIMBLE NETR9 | height: 834.52 |
| station ZMRA: | antenna: TRM59900.00 SCIS | receiver: TRIMBLE NETR9 | height: 740.706 |

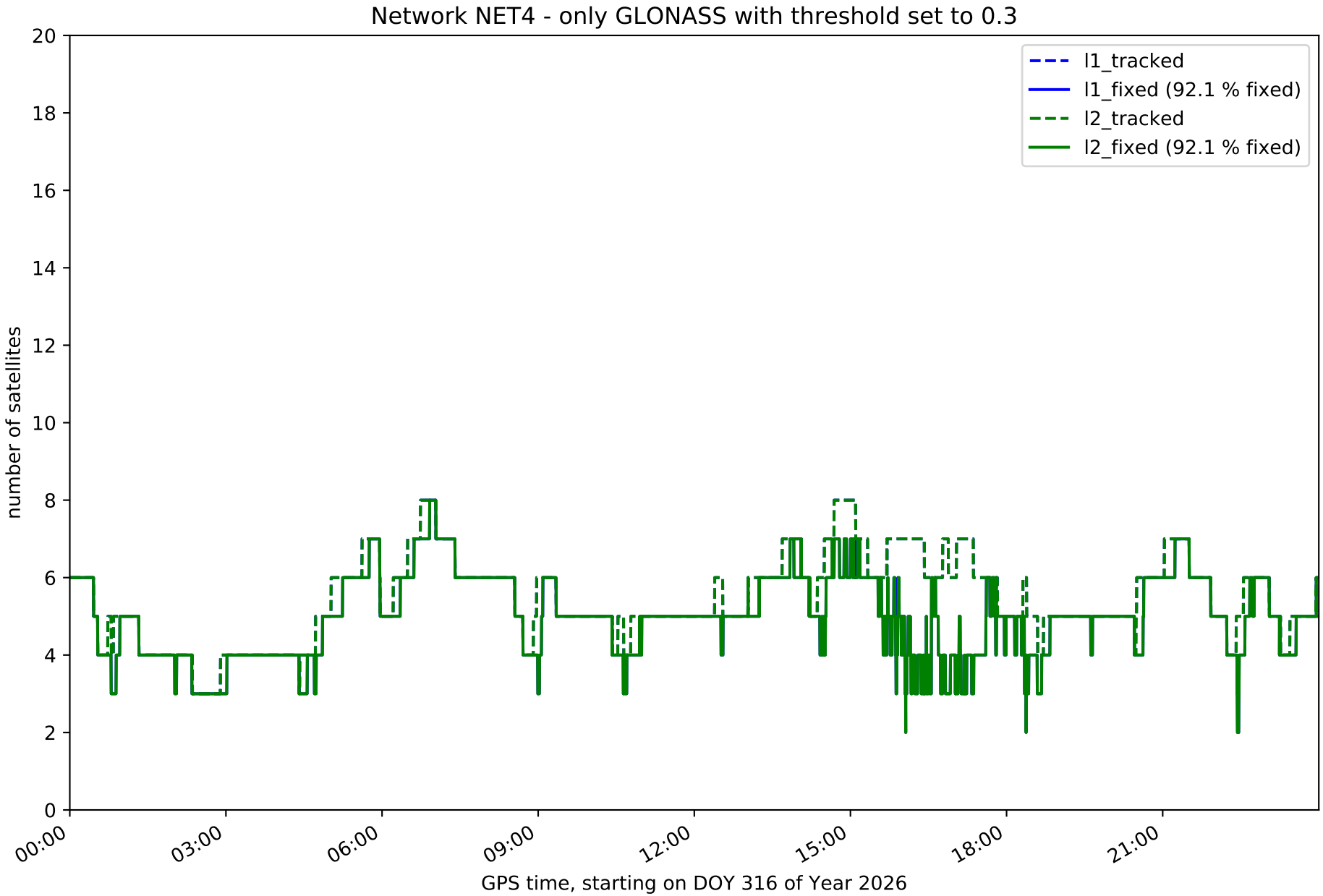

Processing rate in network NET4
time difference to next processed epoch [s]
0
2
4
6
8
10
12
14
16
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

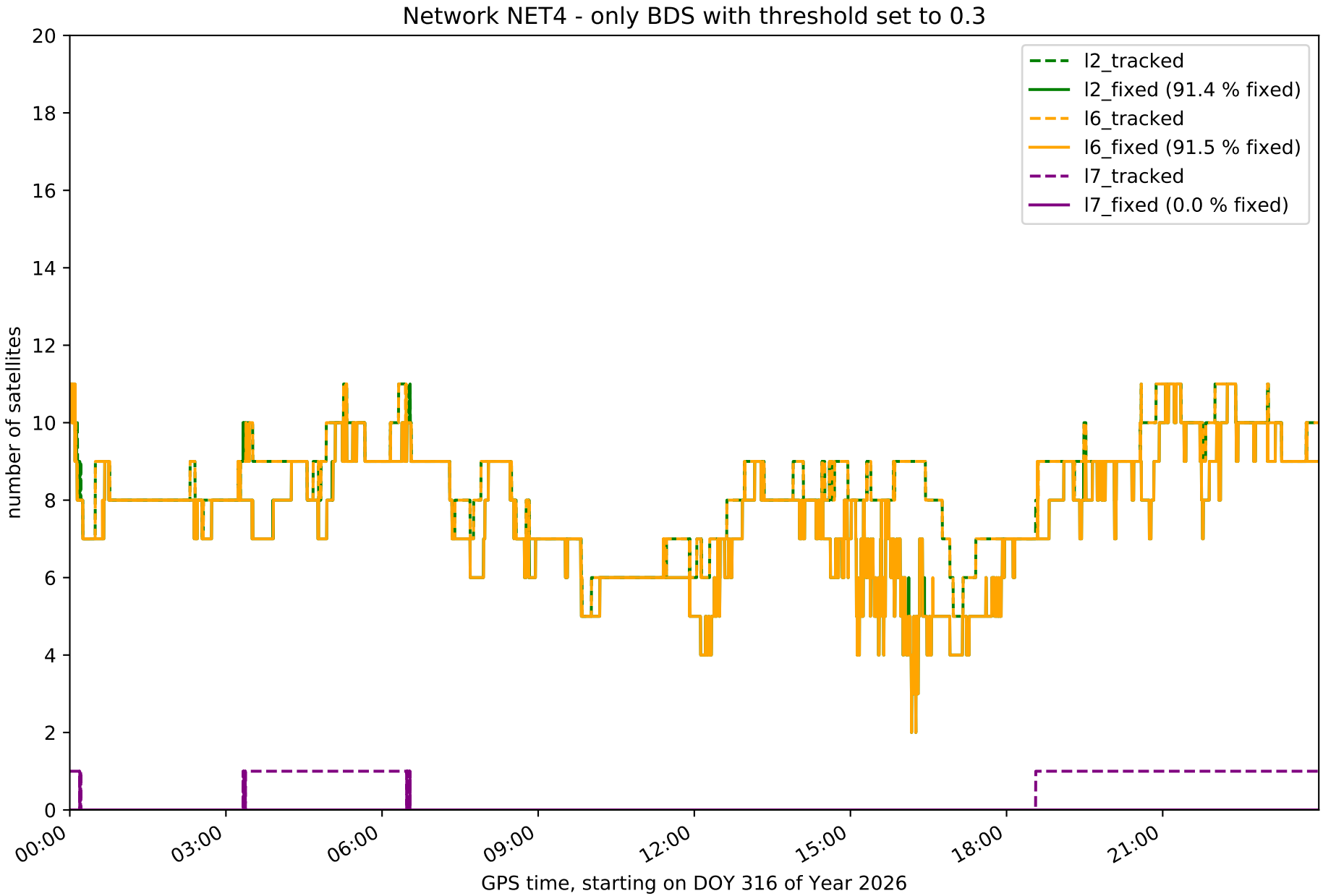

Histogram of the processing rate in network NET4 (durations larger 15 seconds neglected)
number of epochs
0
5000
10000
15000
20000
25000
30000
1
2
3
4
5
6
time difference to next processed epoch [s]

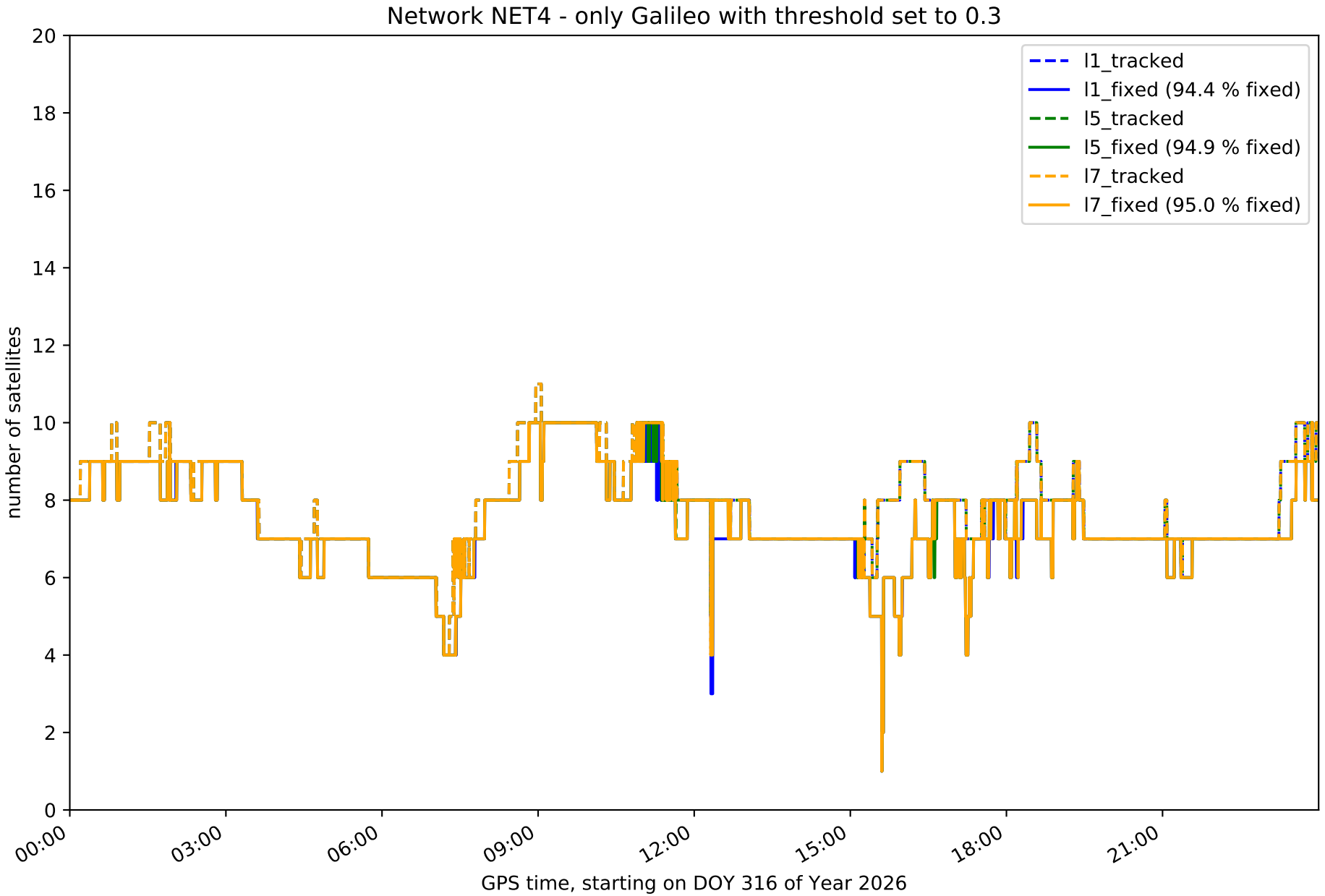

Network NET4 with threshold set to 0.3
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
40
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

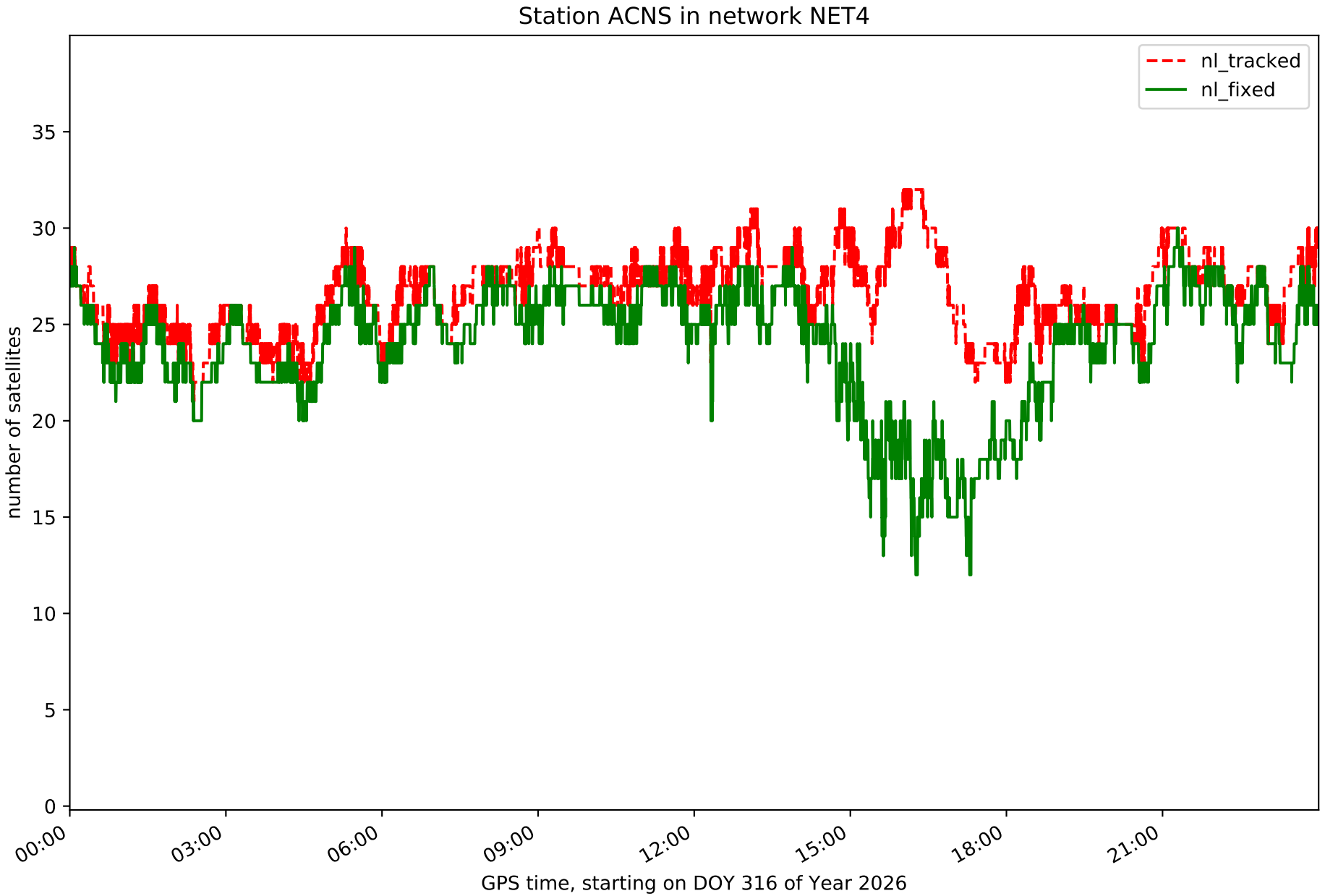

Fixing percentage of satellites in network NET4 with threshold set to 0.3
percentage fixed to tracked
100
90
80
70
60
50
40
30
20
10
0
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

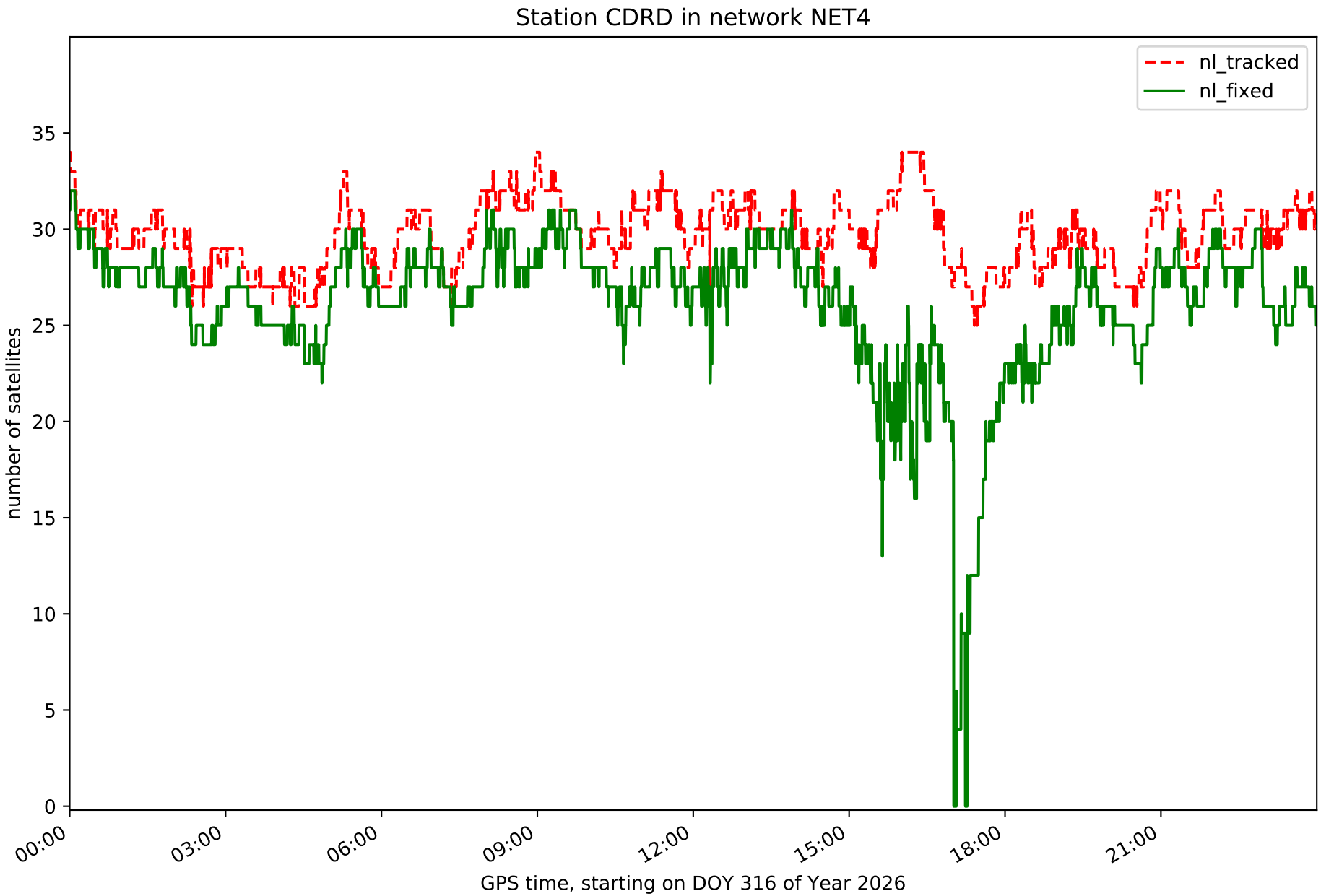

Network NET4 - only GPS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 316 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
l1_tracked
l1_fixed (92.5 % fixed)
l2_tracked
l2_fixed (92.6 % fixed)
l5_tracked
l5_fixed (92.4 % fixed)

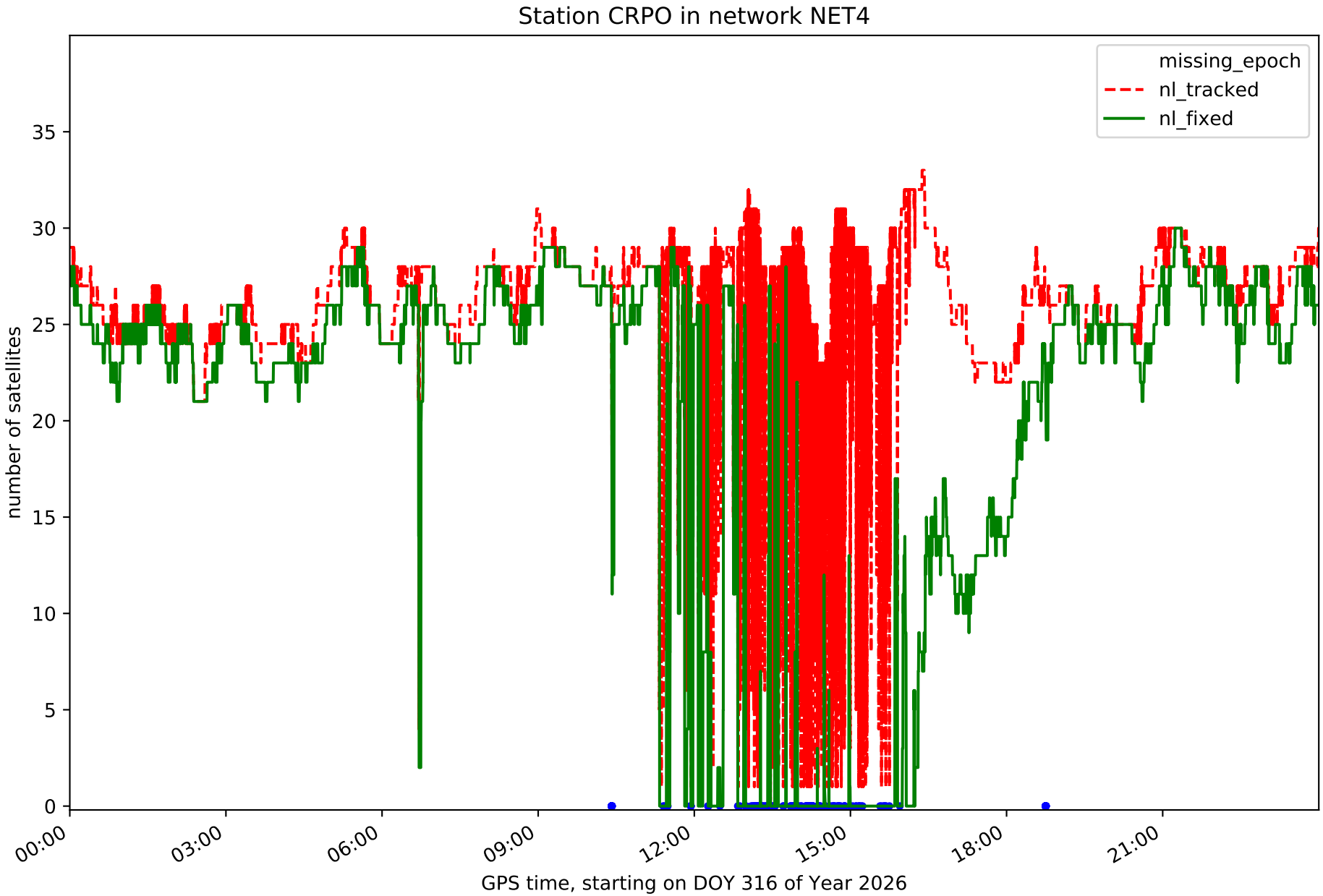

Network NET4 - only GLONASS with threshold set to 0.3
l1_tracked
l1_fixed (92.1 % fixed)
l2_tracked
l2_fixed (92.1 % fixed)
number of satellites
0
2
4
6
8
10
12
14
16
18
20
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

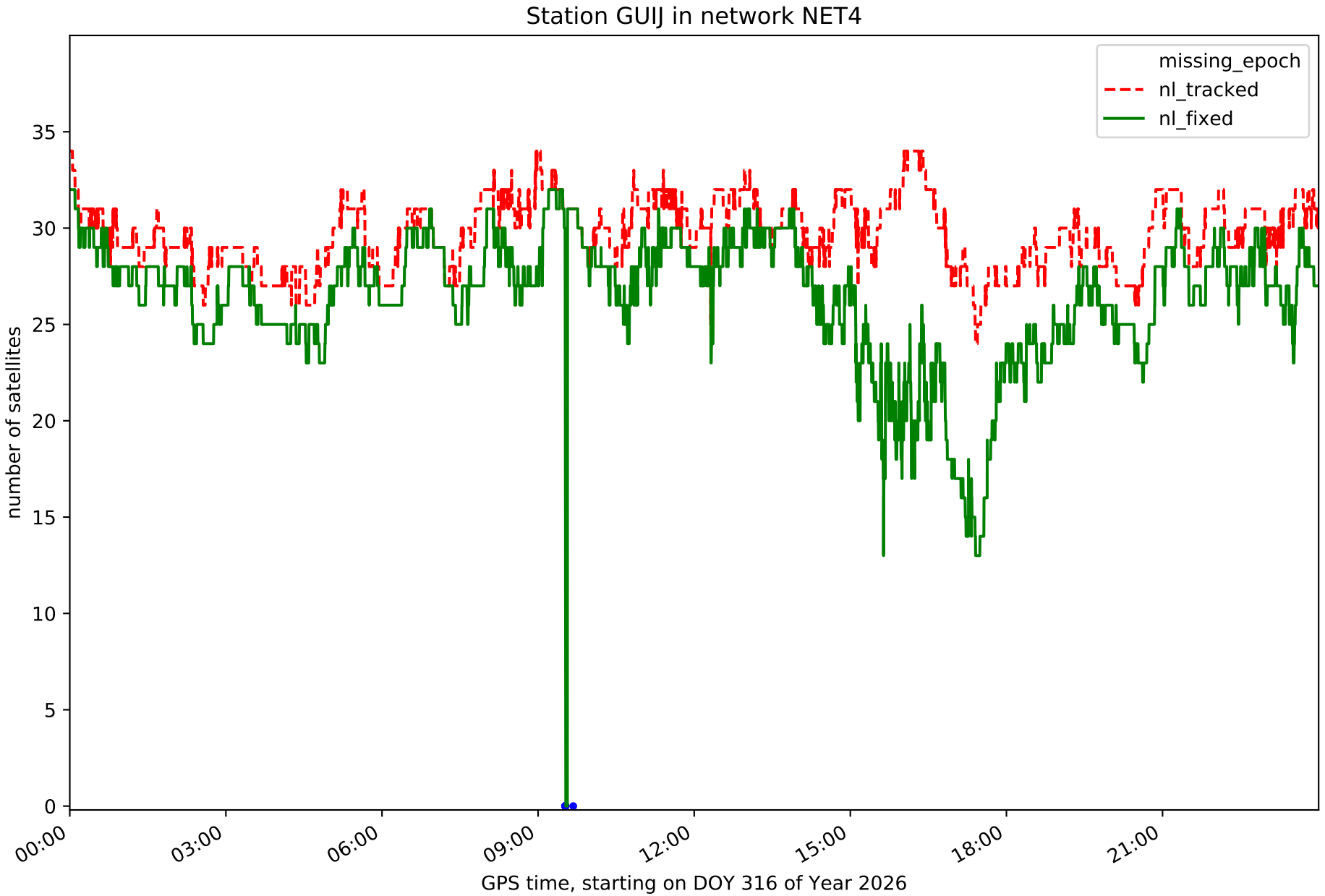

Network NET4 - only BDS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 316 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
I2_tracked
I2_fixed (91.4 % fixed)
I6_tracked
I6_fixed (91.5 % fixed)
I7_tracked
I7_fixed (0.0 % fixed)

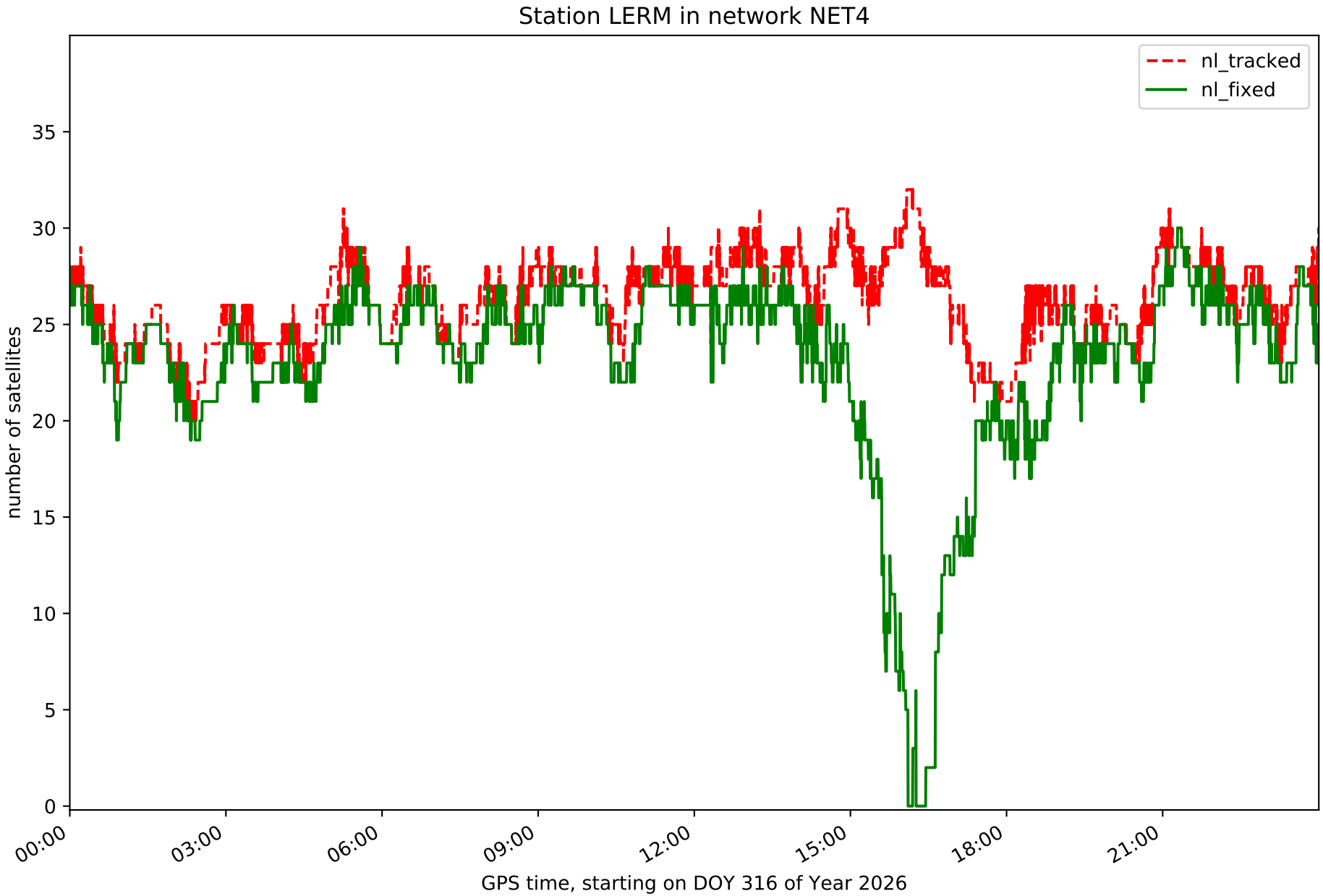

Network NET4 - only Galileo with threshold set to 0.3
number of satellites
GPS time, starting on DOY 316 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
l1_tracked
l1_fixed (94.4 % fixed)
l5_tracked
l5_fixed (94.9 % fixed)
l7_tracked
l7_fixed (95.0 % fixed)

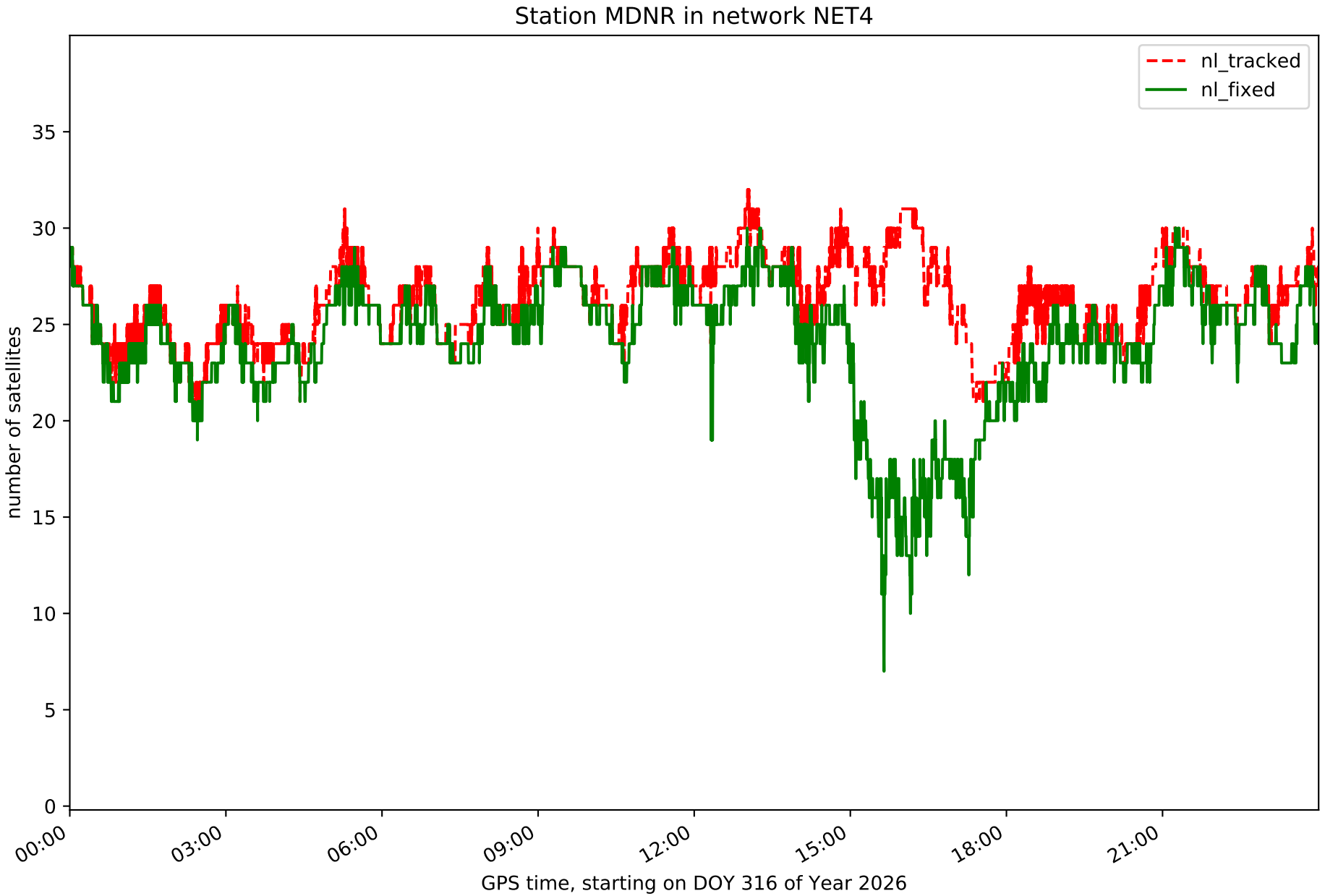

Station ACNS in network NET4
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

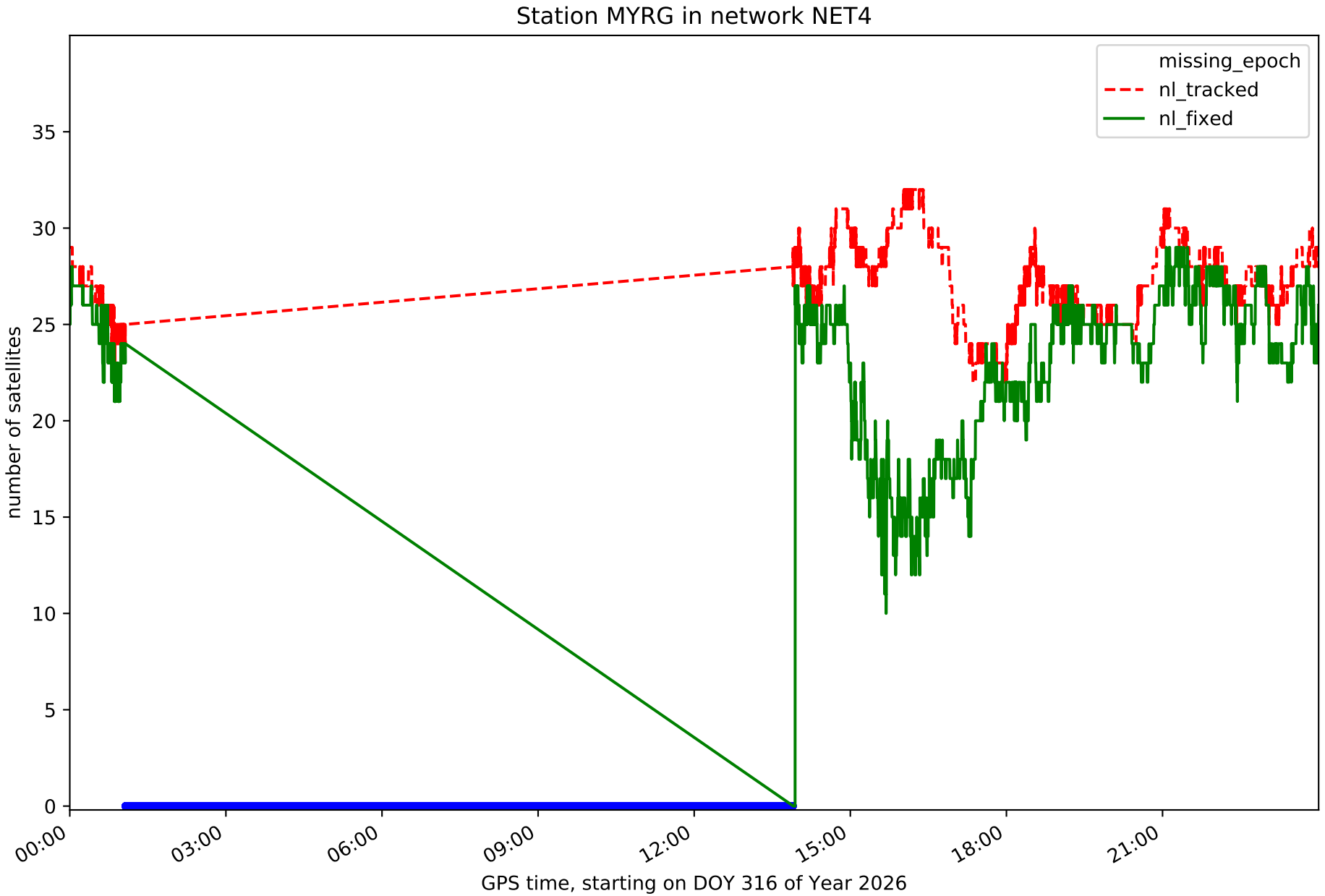

Station CDRD in network NET4
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

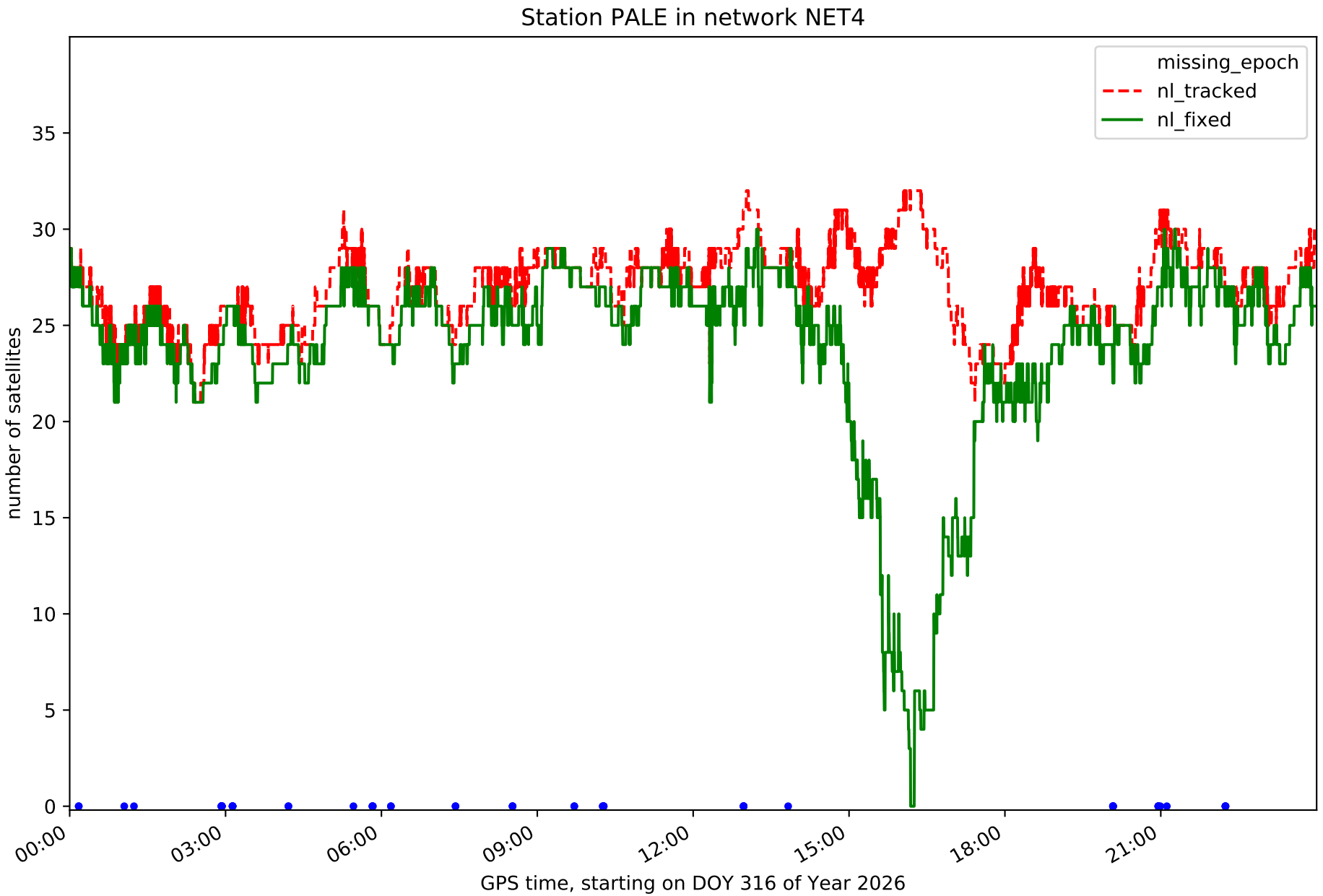

Station CRPO in network NET4
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

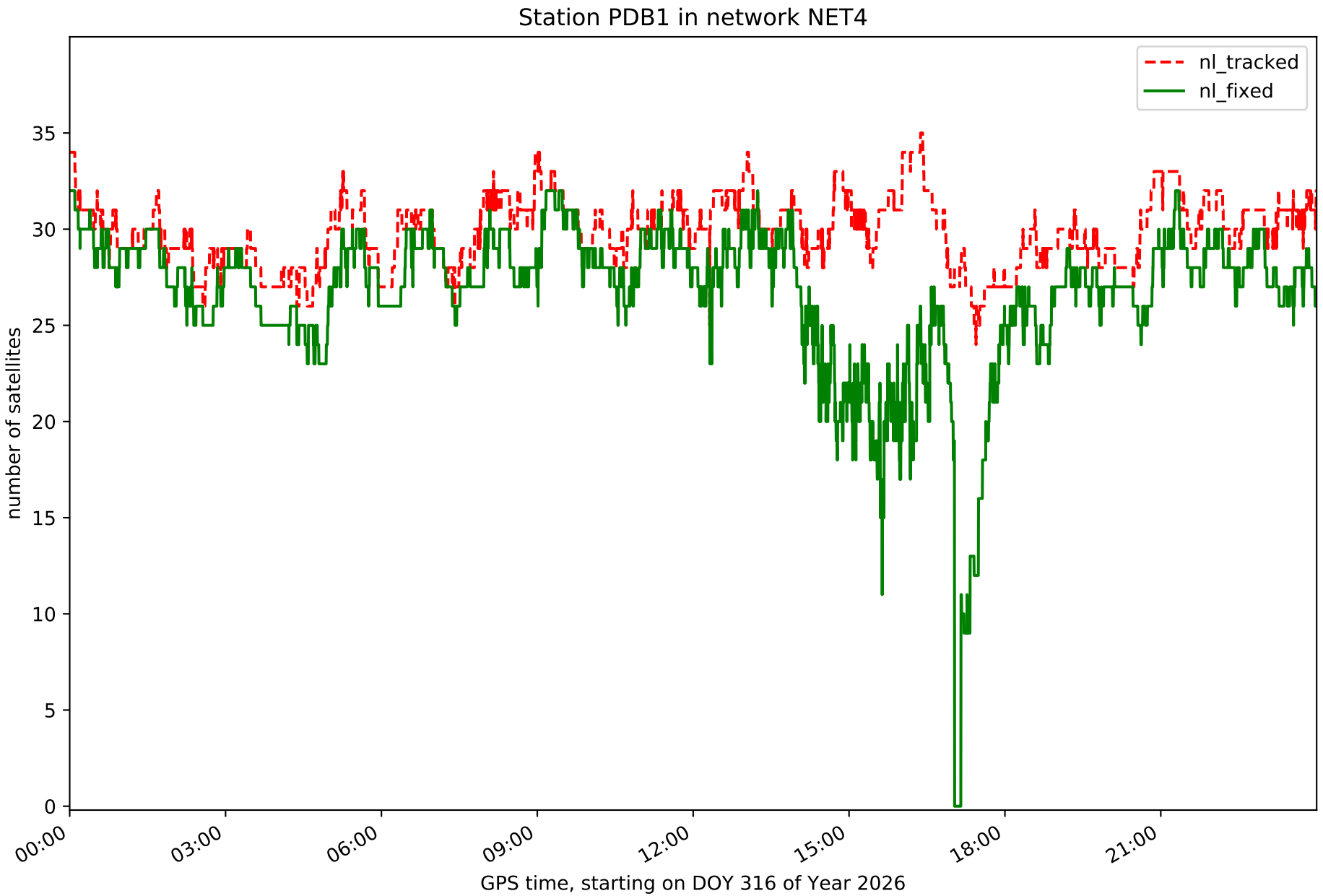

Station GUIJ in network NET4
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

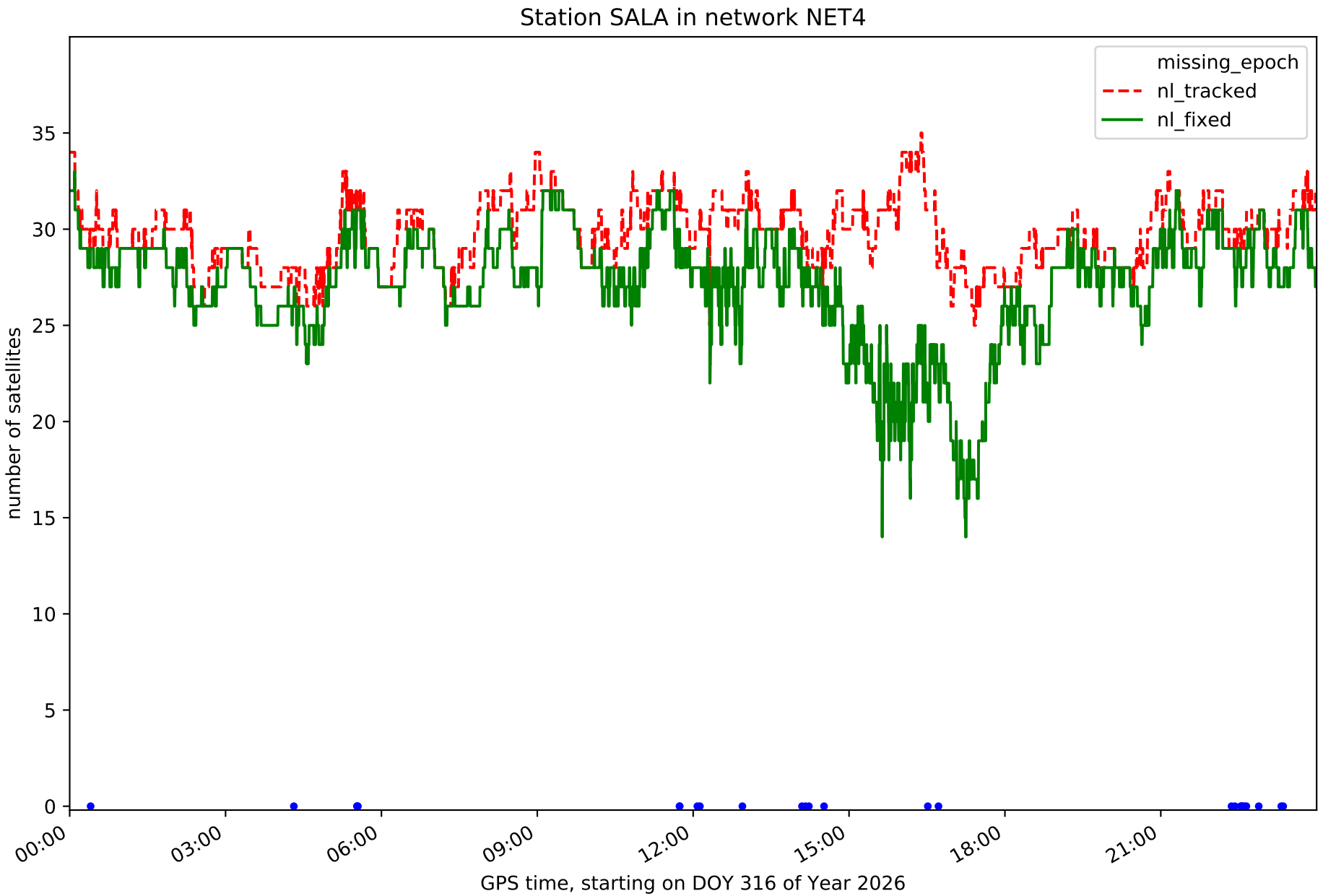

Station LERM in network NET4
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

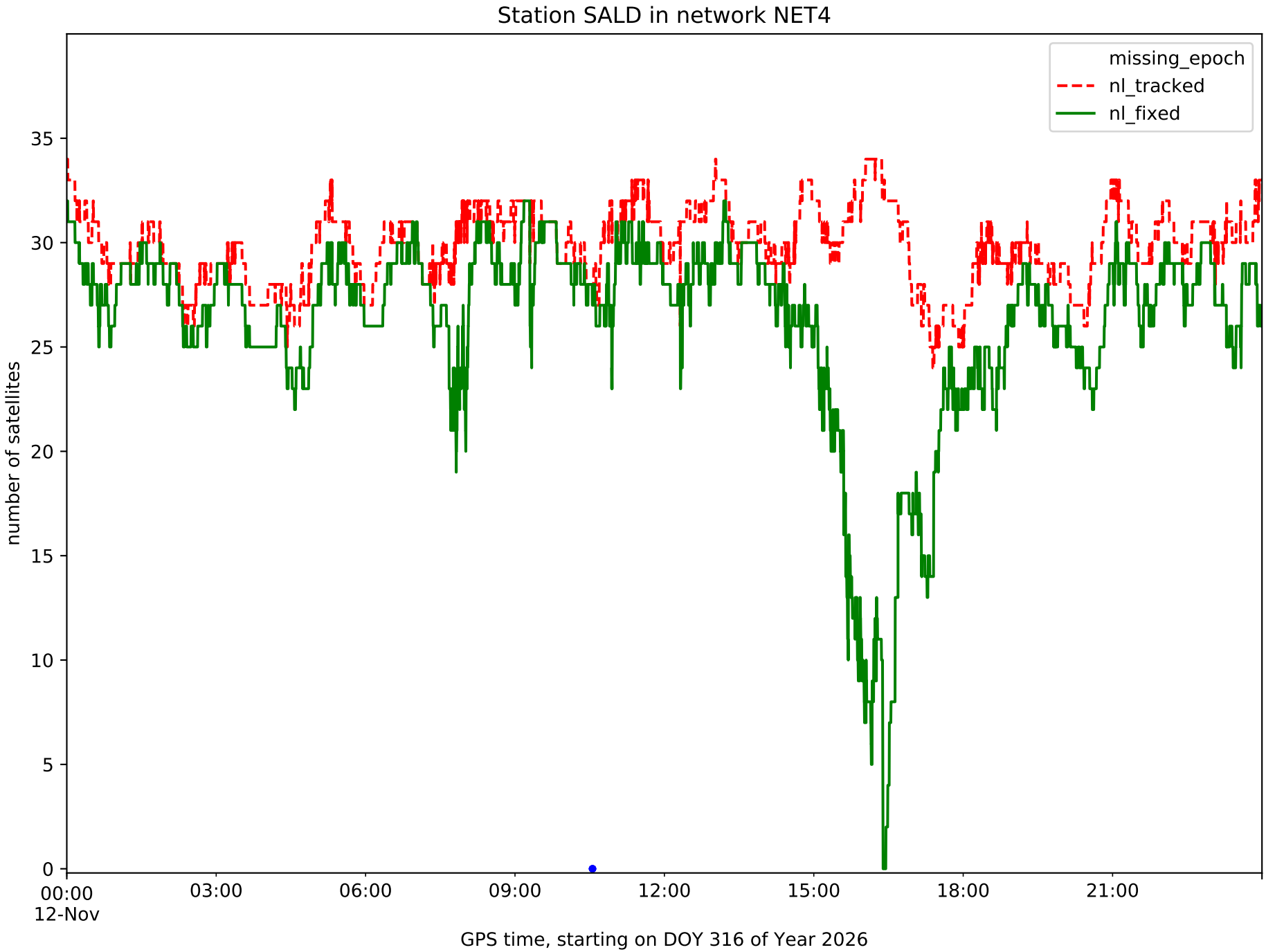

Station MDNR in network NET4
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

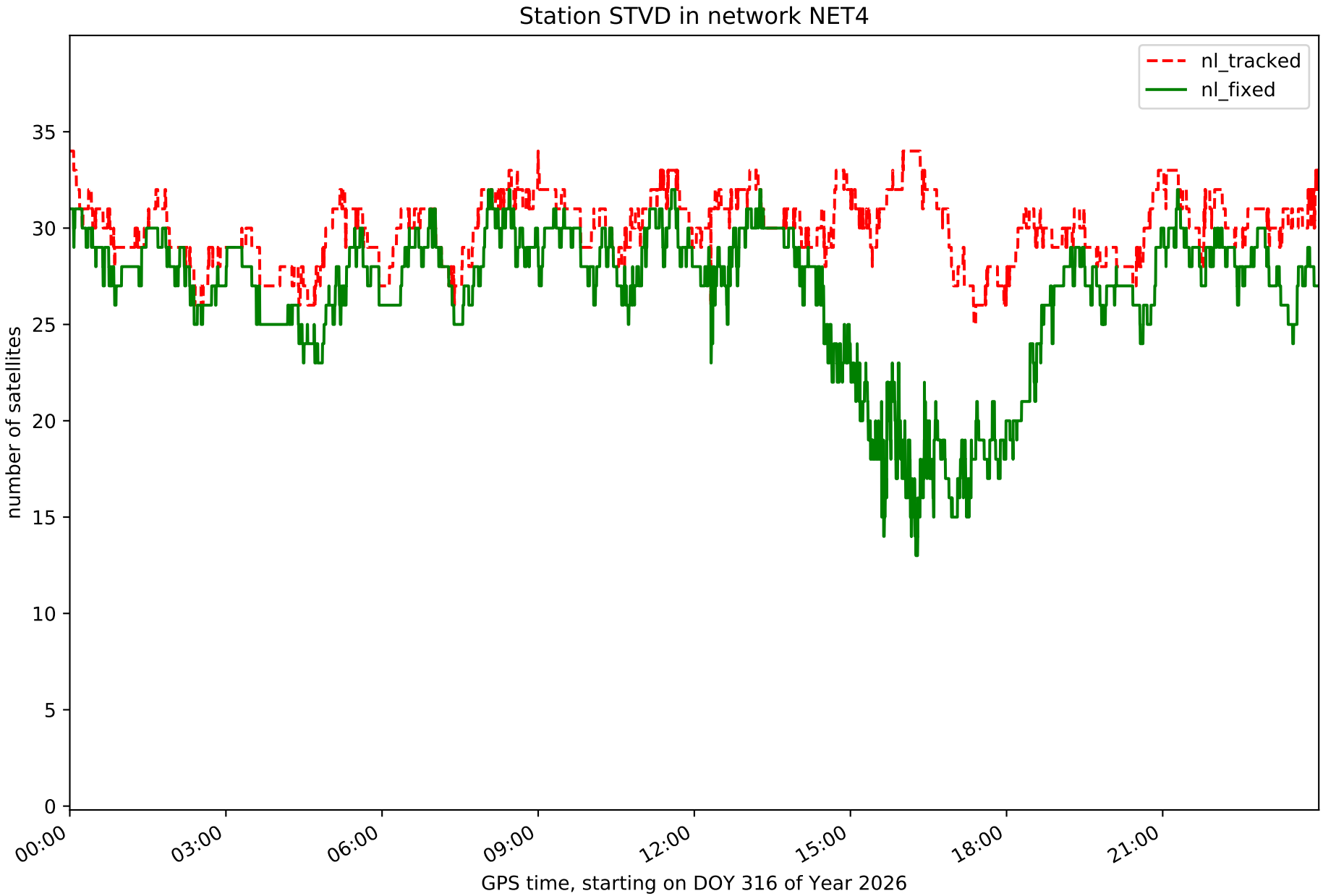

Station MYRG in network NET4
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

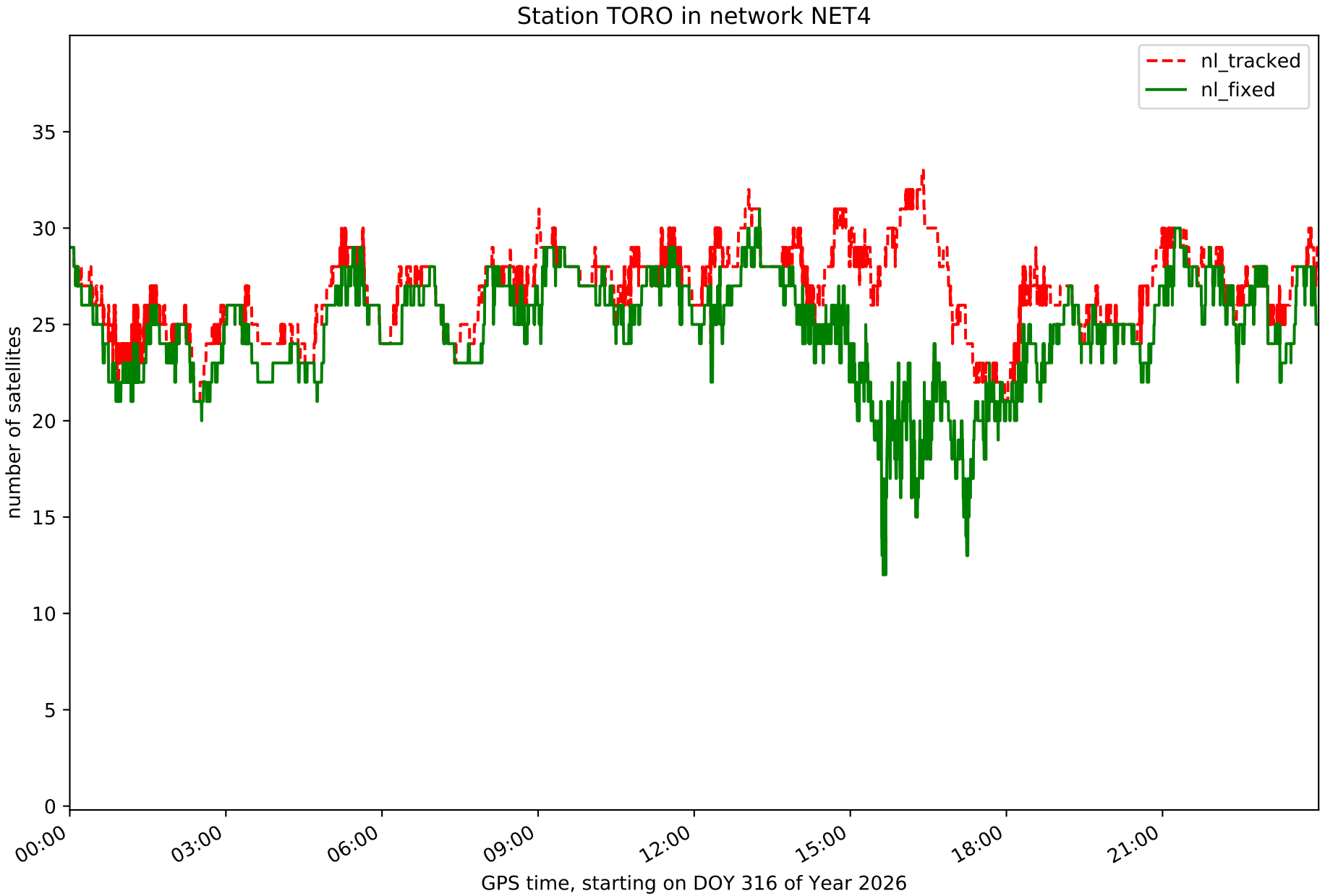

Station PALE in network NET4
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

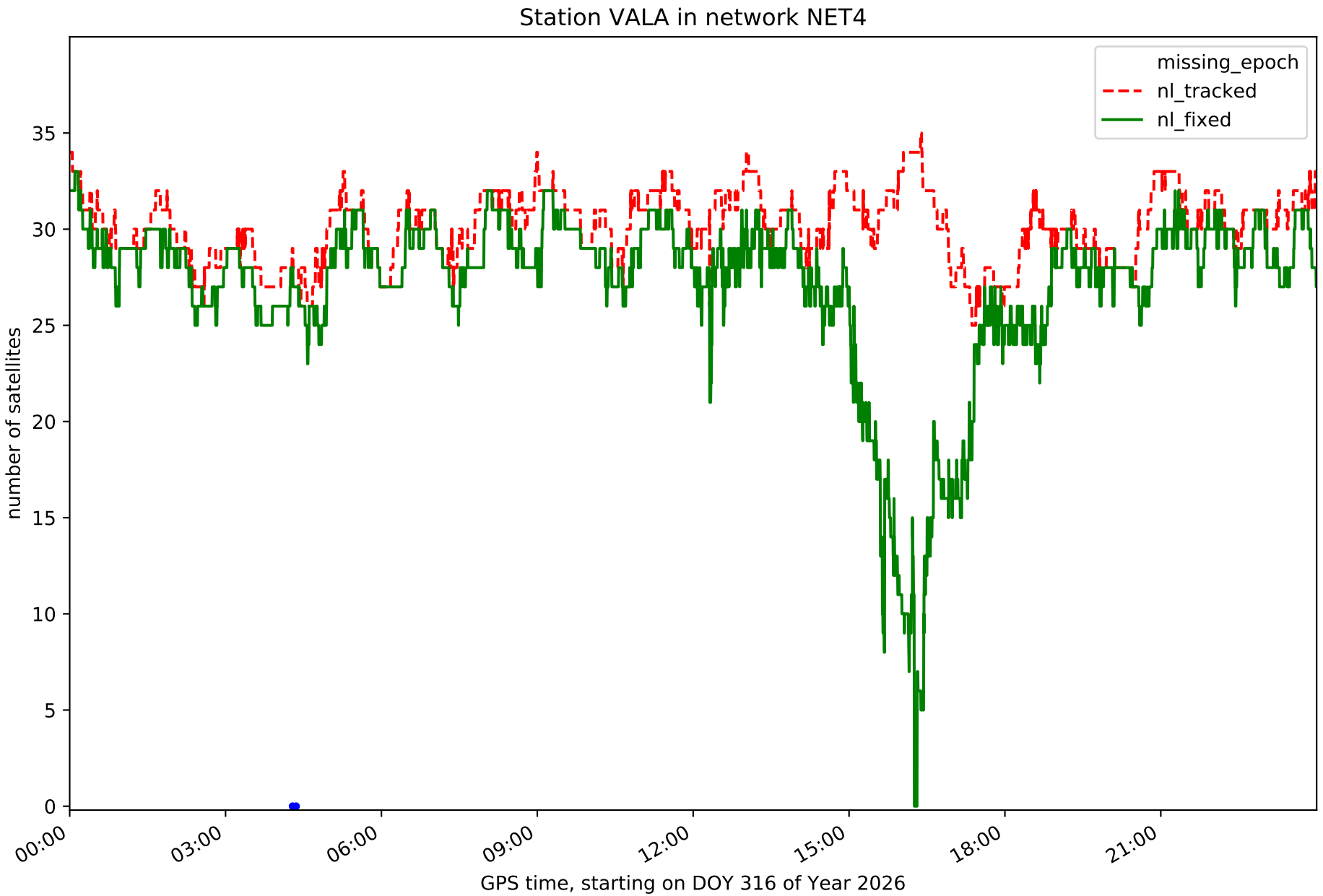

Station PDB1 in network NET4
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

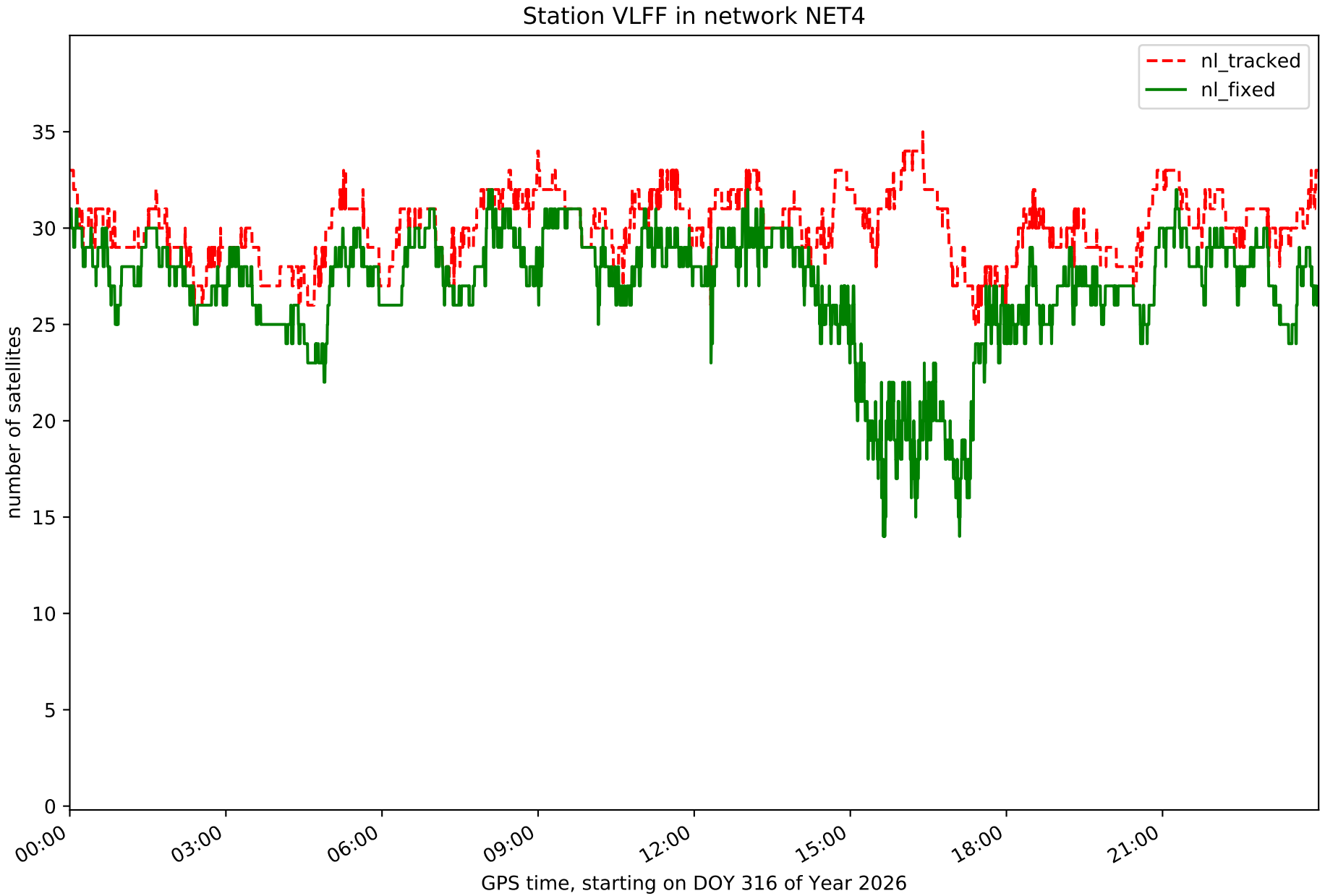

Station SALA in network NET4
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

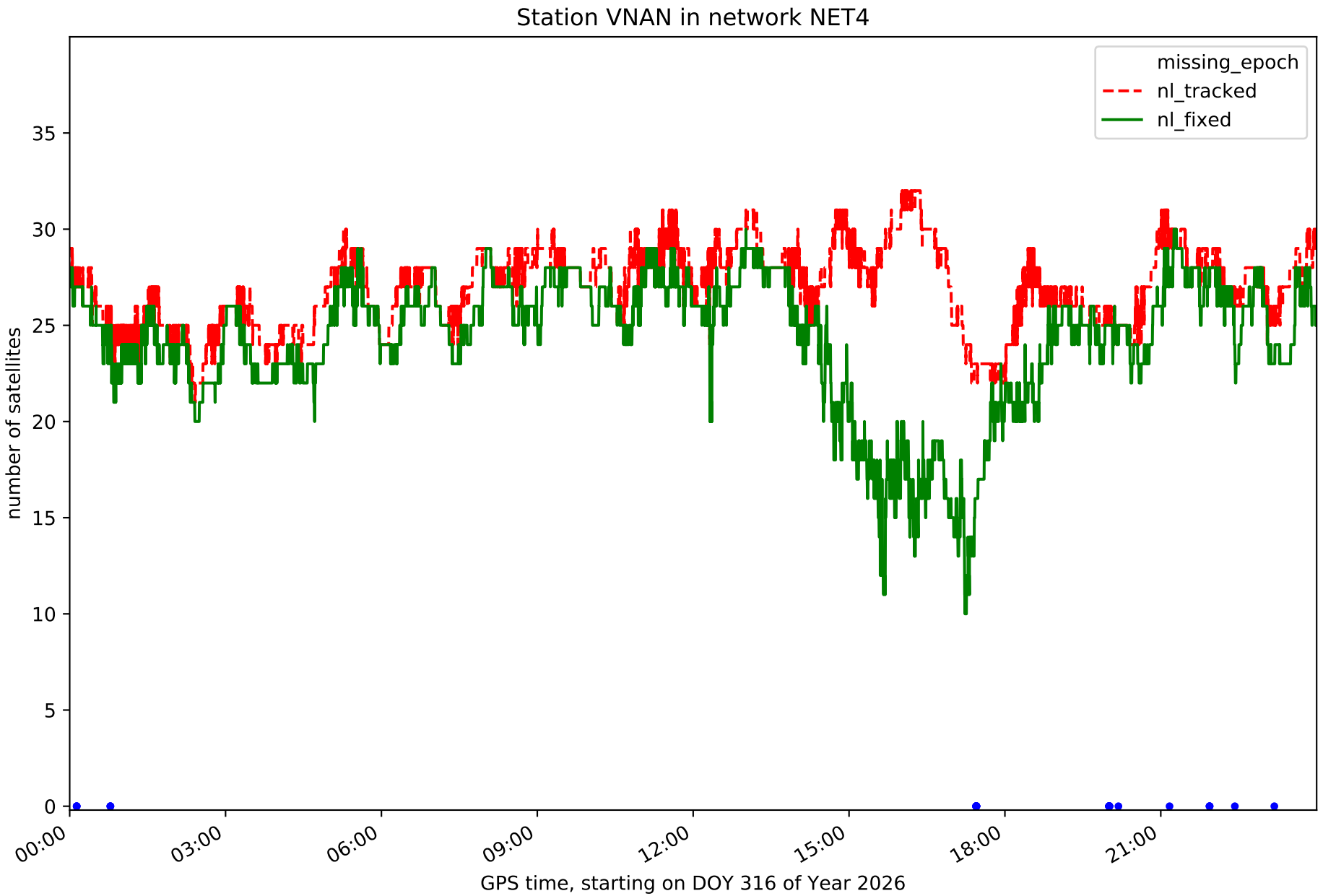

Station SALD in network NET4
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
12-Nov
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

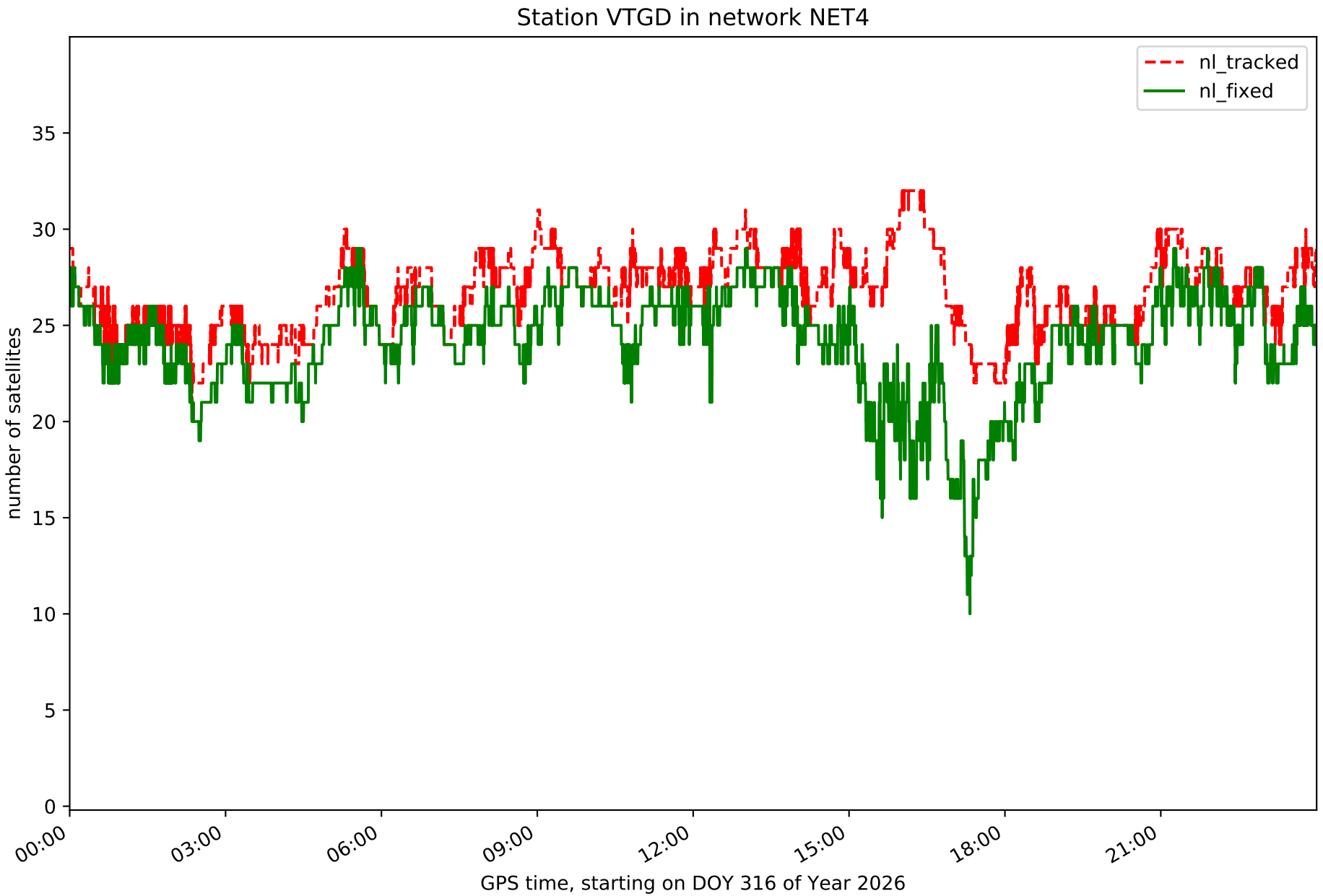

Station STVD in network NET4
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

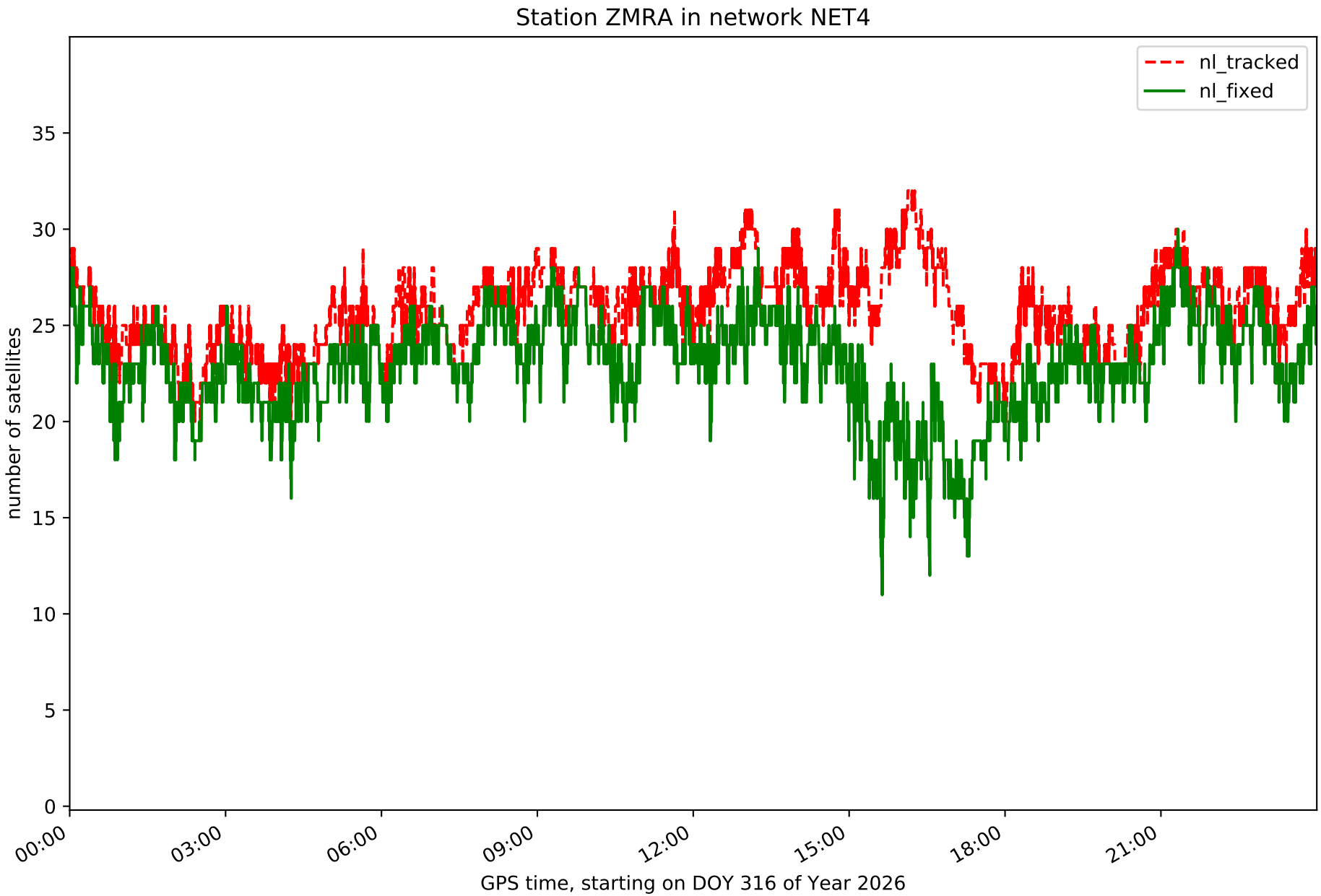

Station TORO in network NET4
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

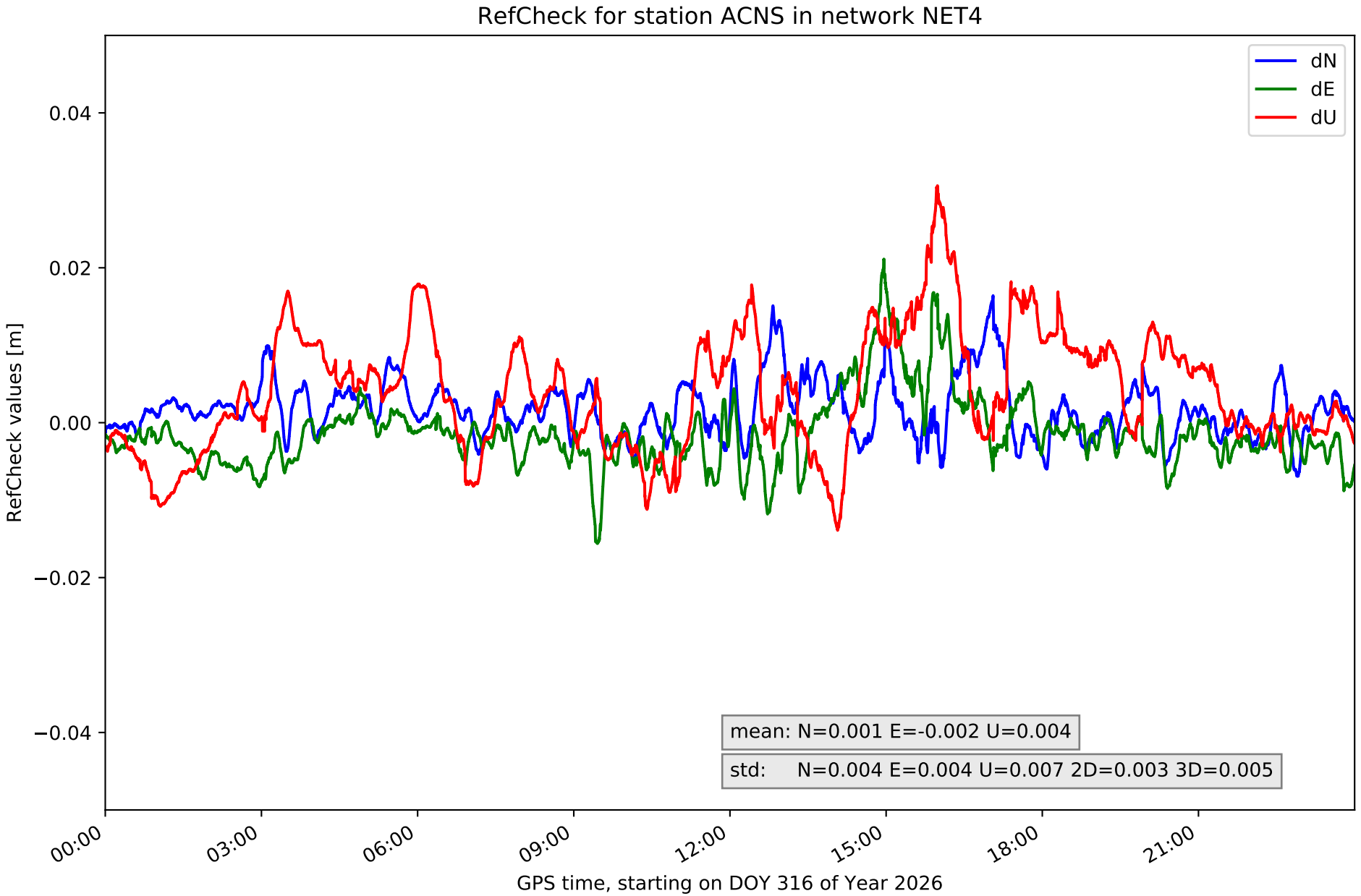

Station VALA in network NET4
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

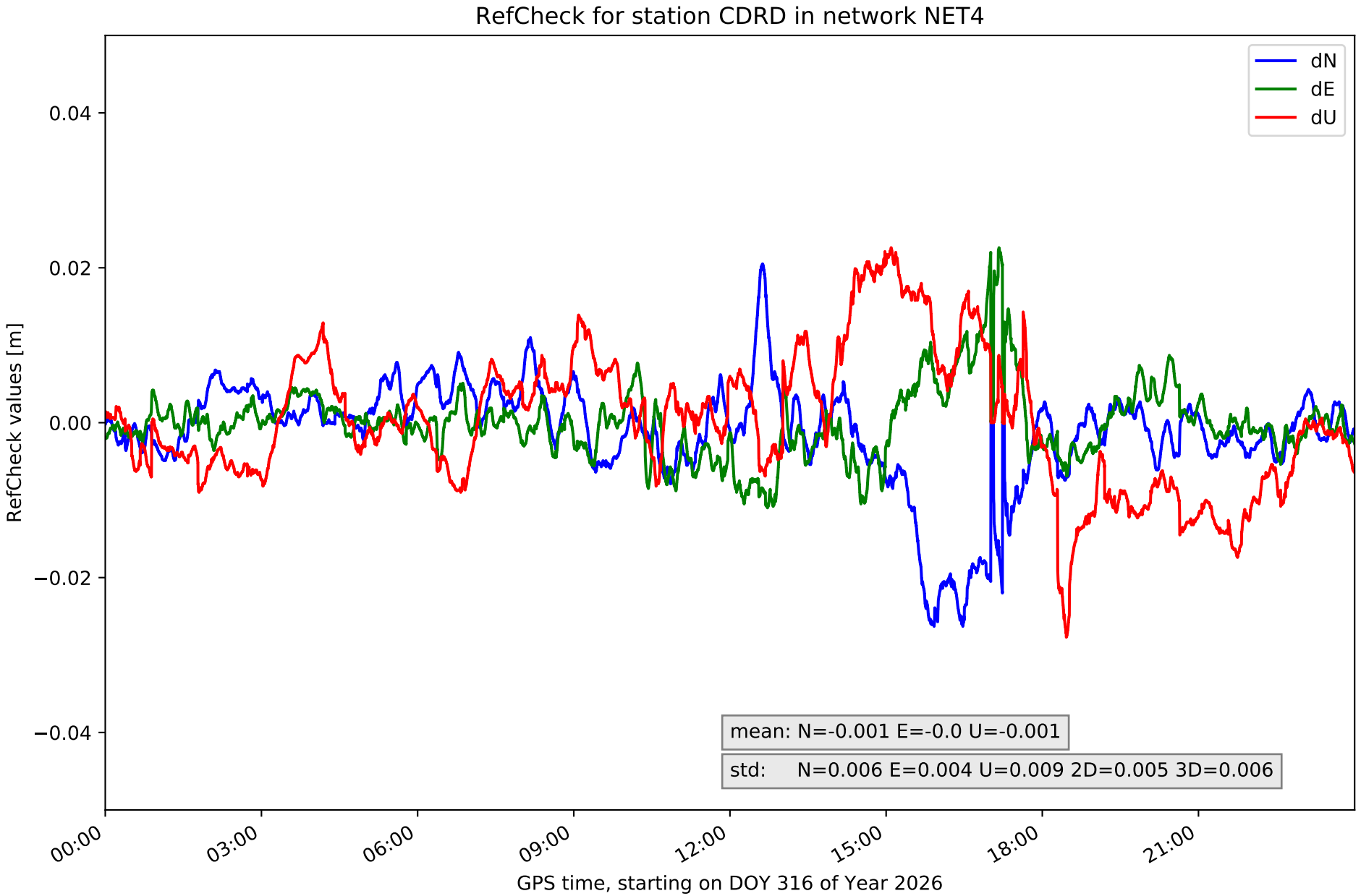

Station VLFF in network NET4
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

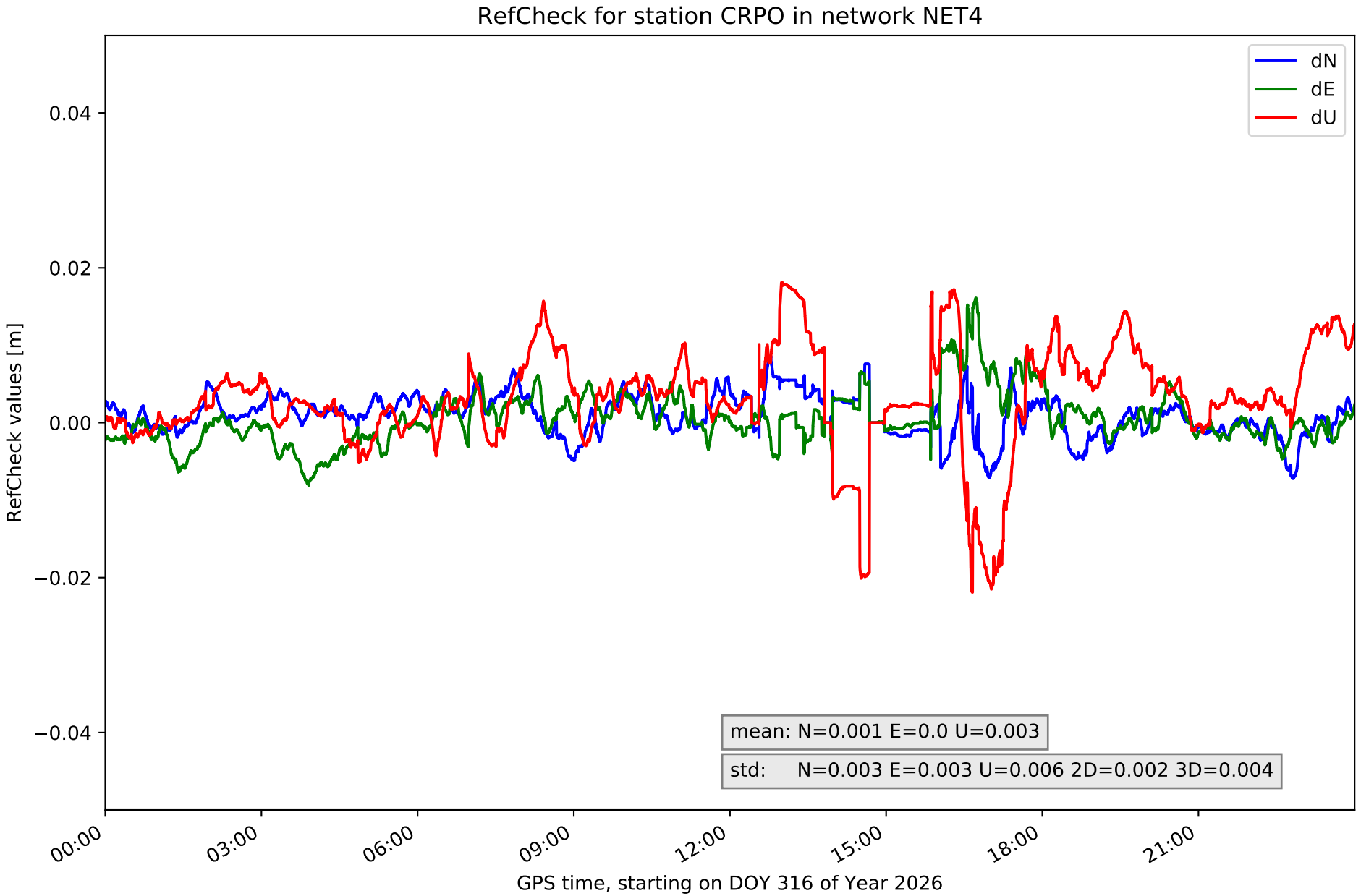

Station VNAN in network NET4
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

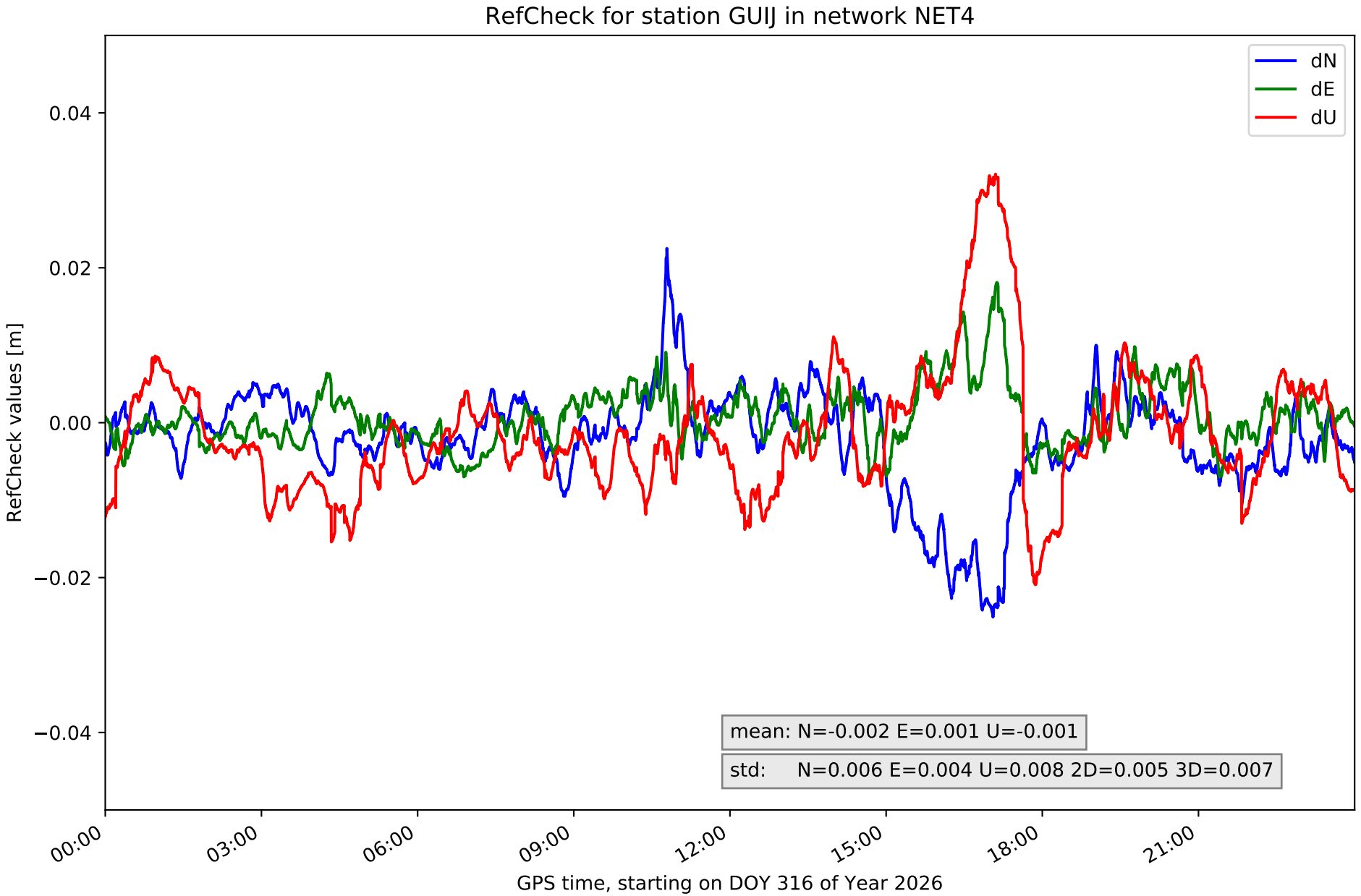

Station VTGD in network NET4
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

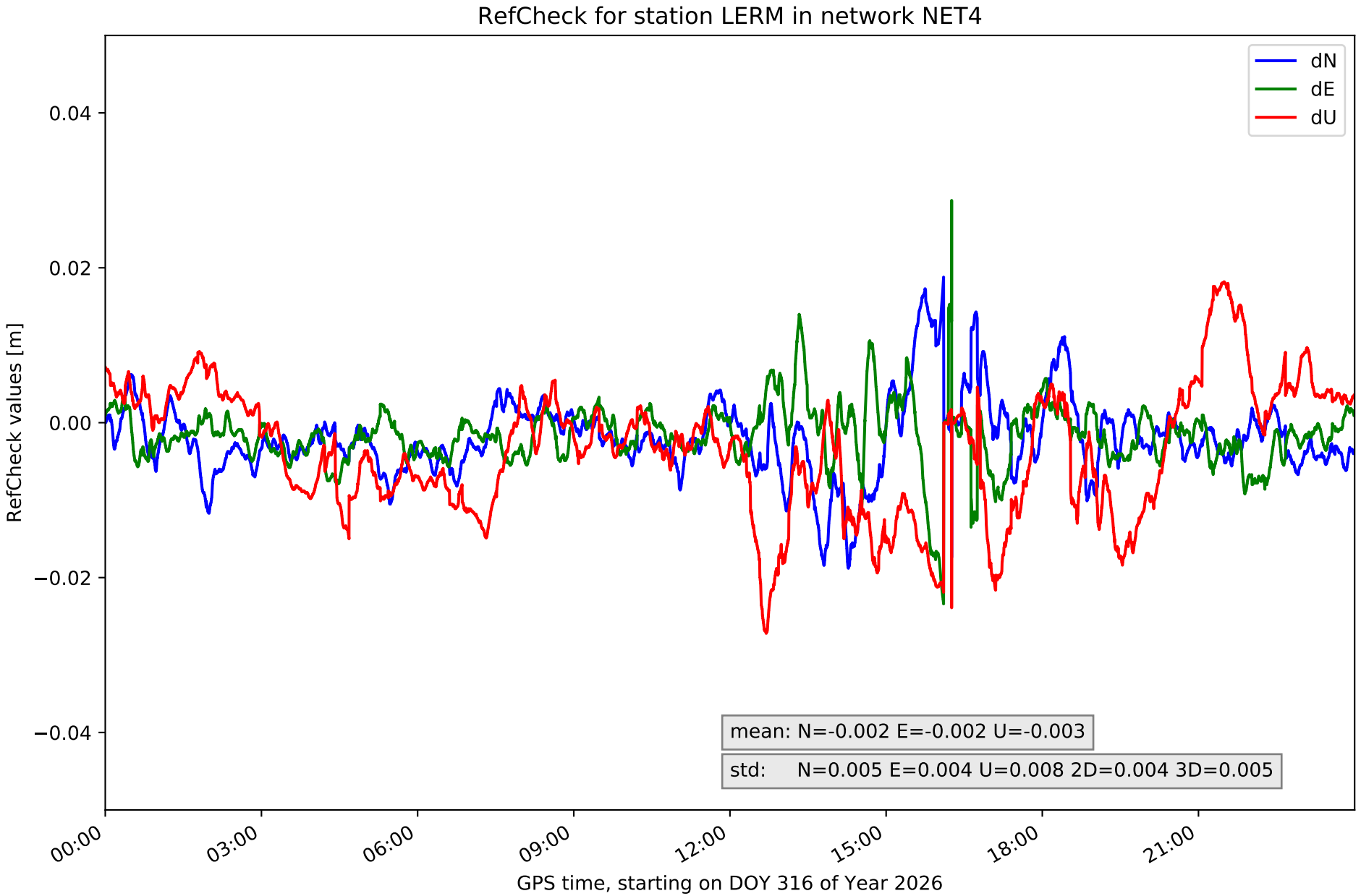

Station ZMRA in network NET4
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

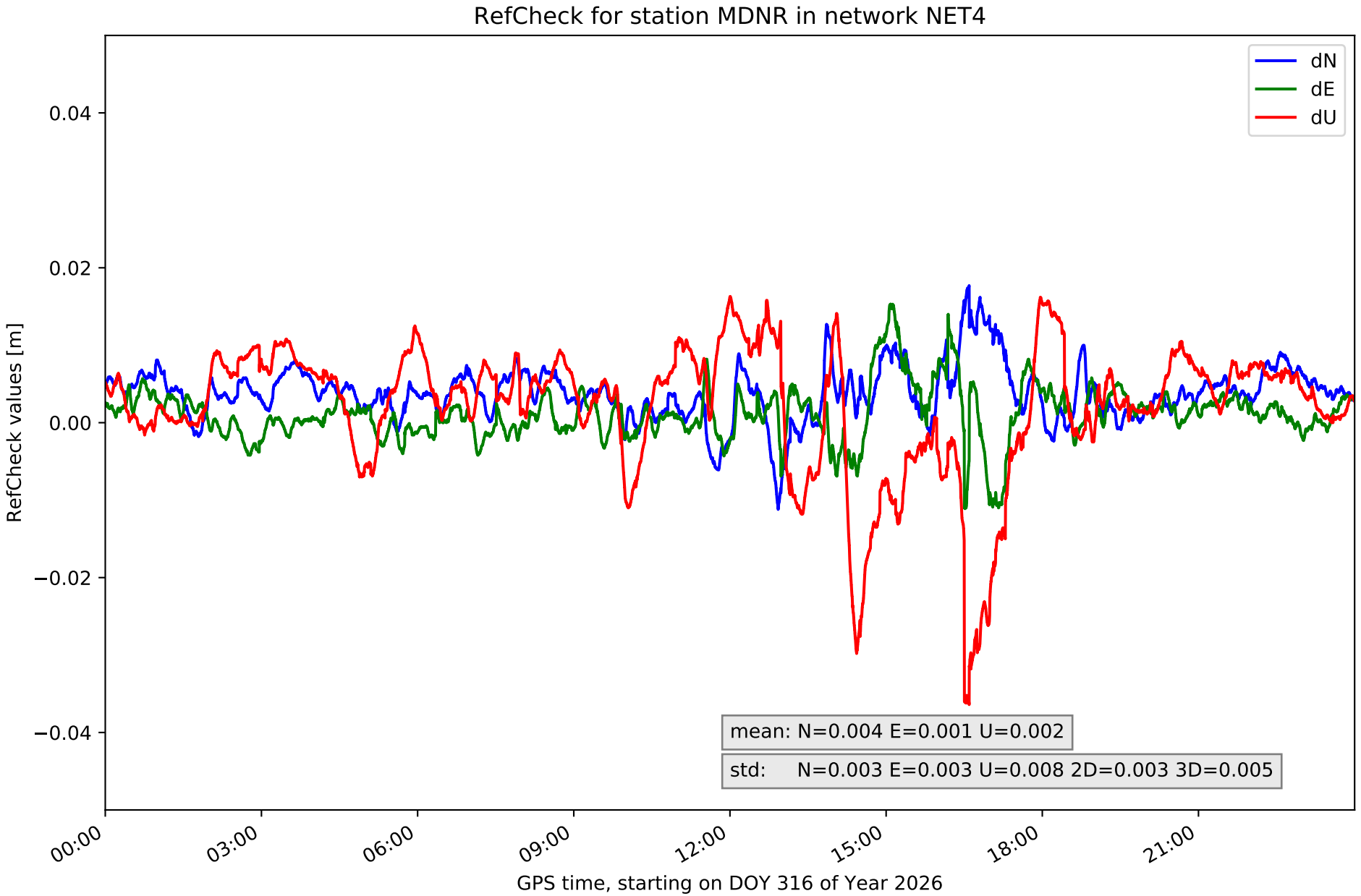

RefCheck for station ACNS in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=-0.002 U=0.004
std: N=0.004 E=0.004 U=0.007 2D=0.003 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

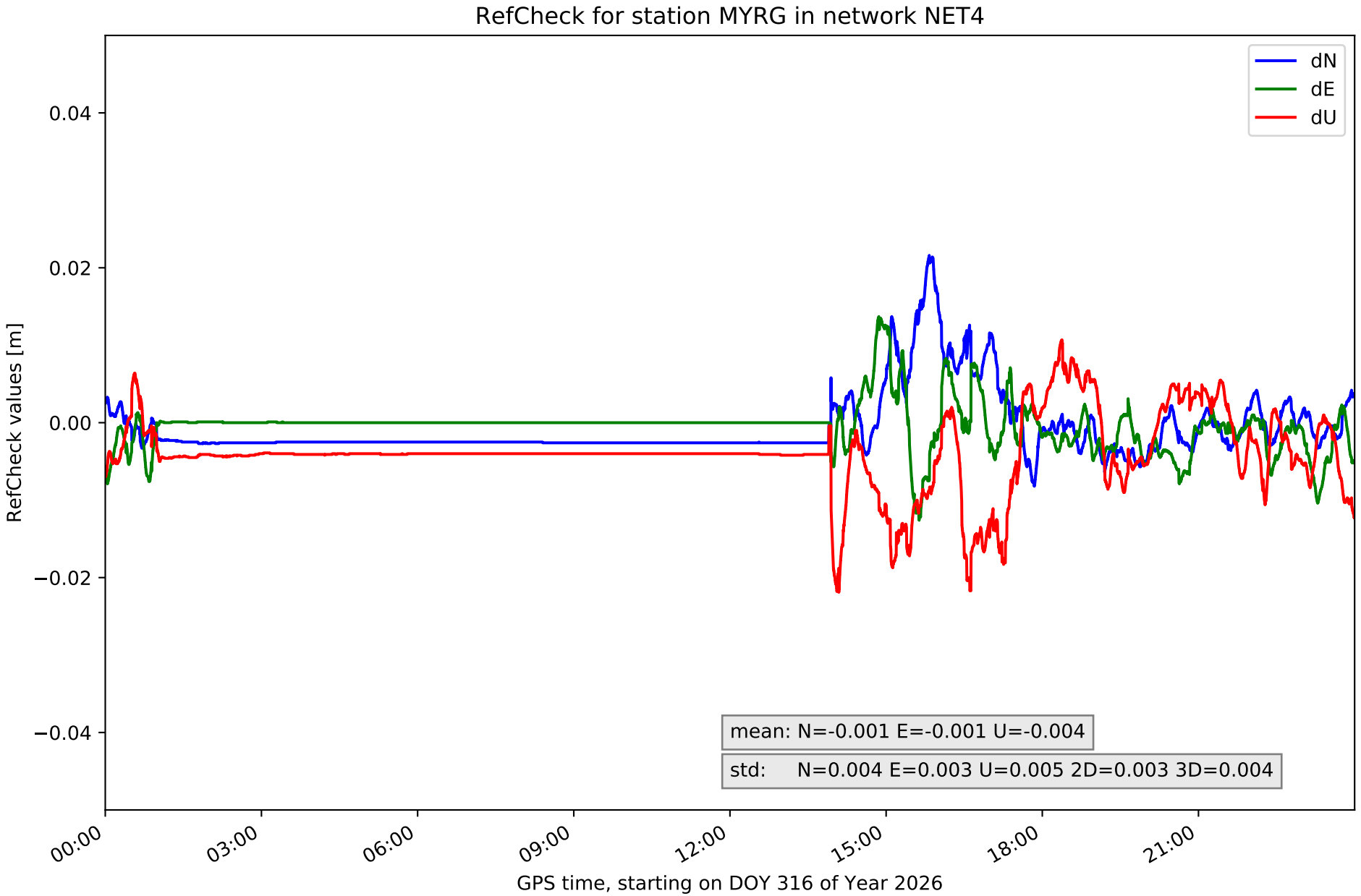

RefCheck for station CDRD in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.0 U=-0.001
std: N=0.006 E=0.004 U=0.009 2D=0.005 3D=0.006
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

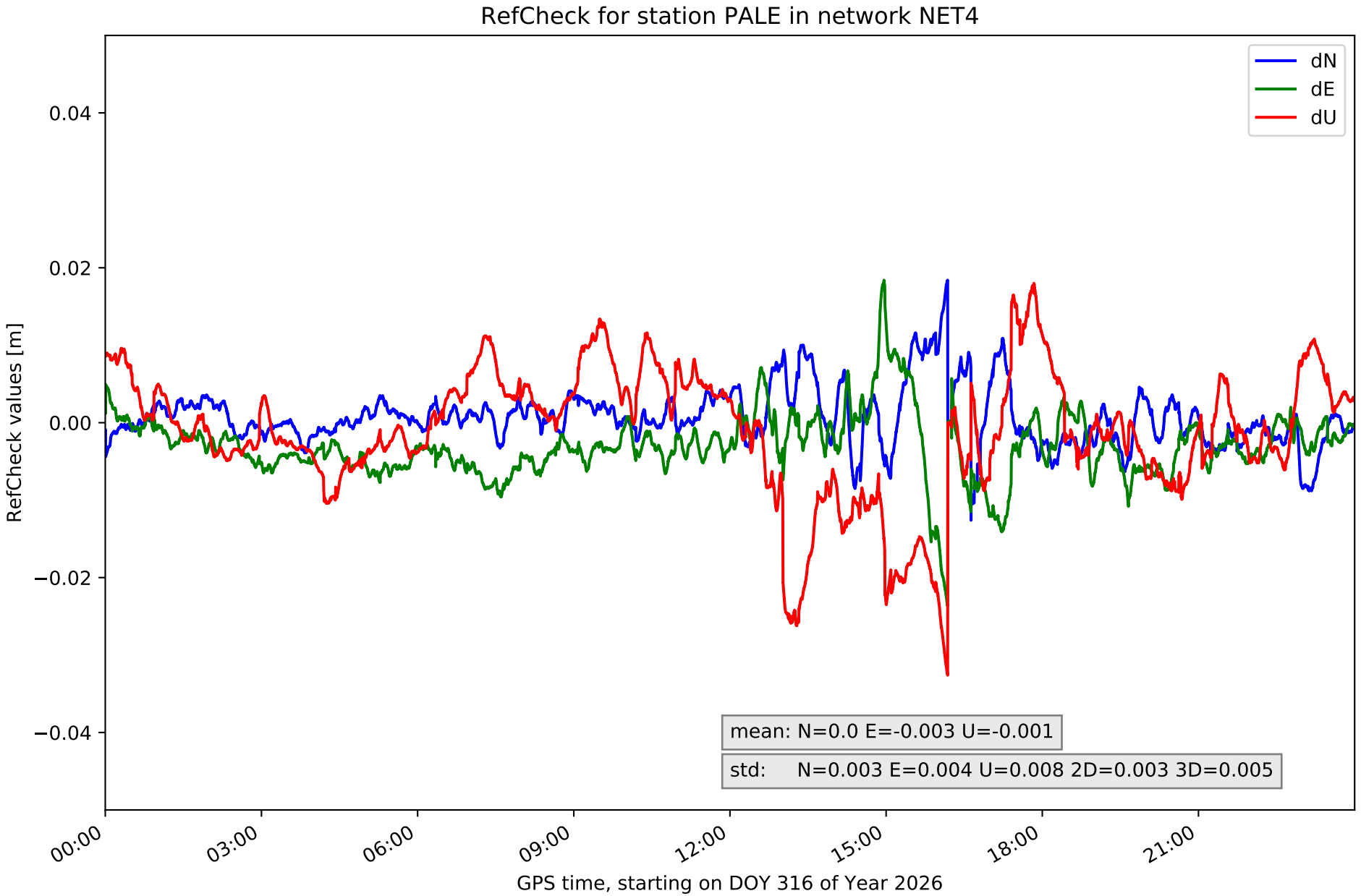

RefCheck for station CRPO in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=0.0 U=0.003
std: N=0.003 E=0.003 U=0.006 2D=0.002 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

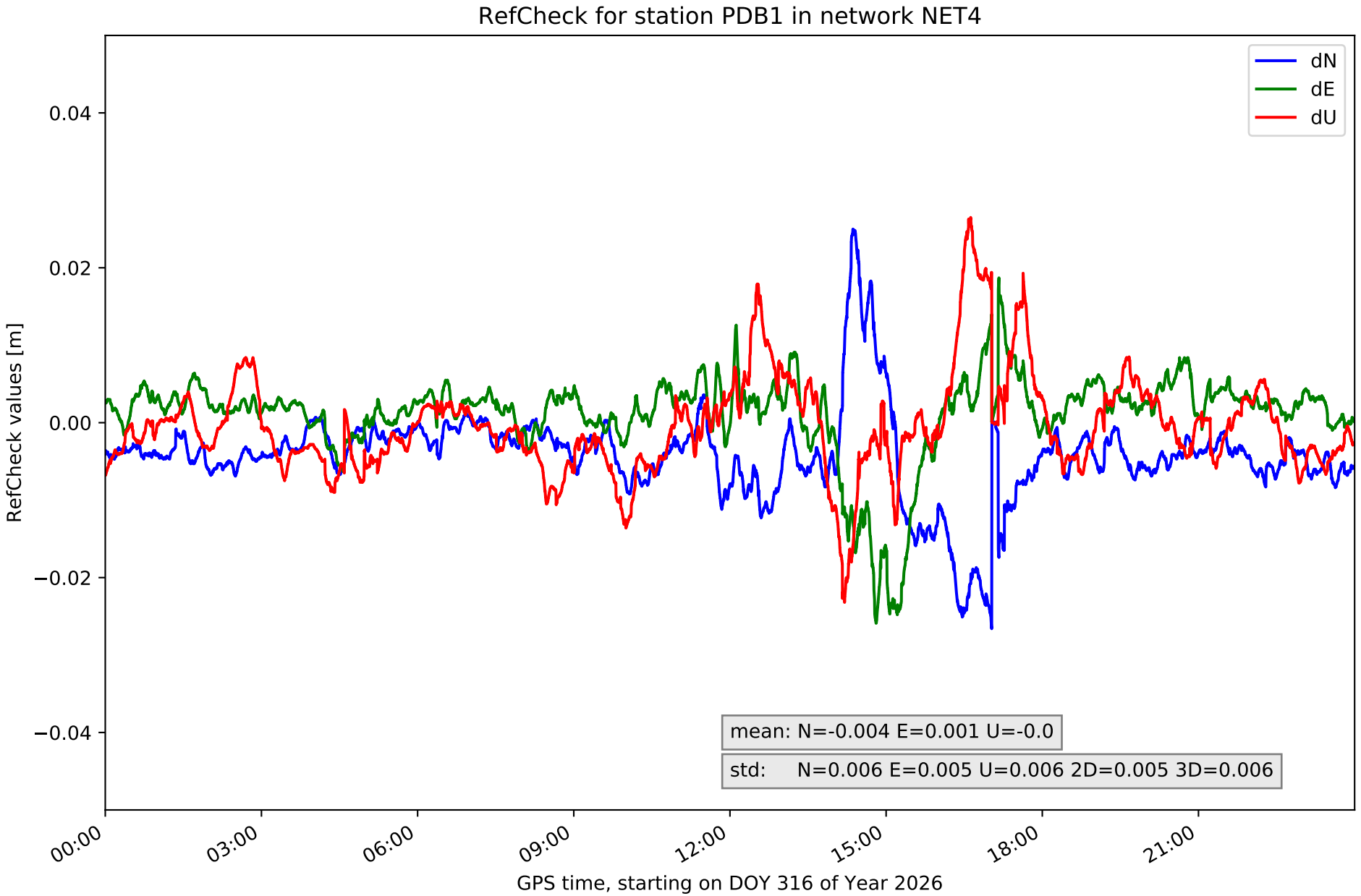

RefCheck for station GUIJ in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.002 E=0.001 U=-0.001
std: N=0.006 E=0.004 U=0.008 2D=0.005 3D=0.007
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

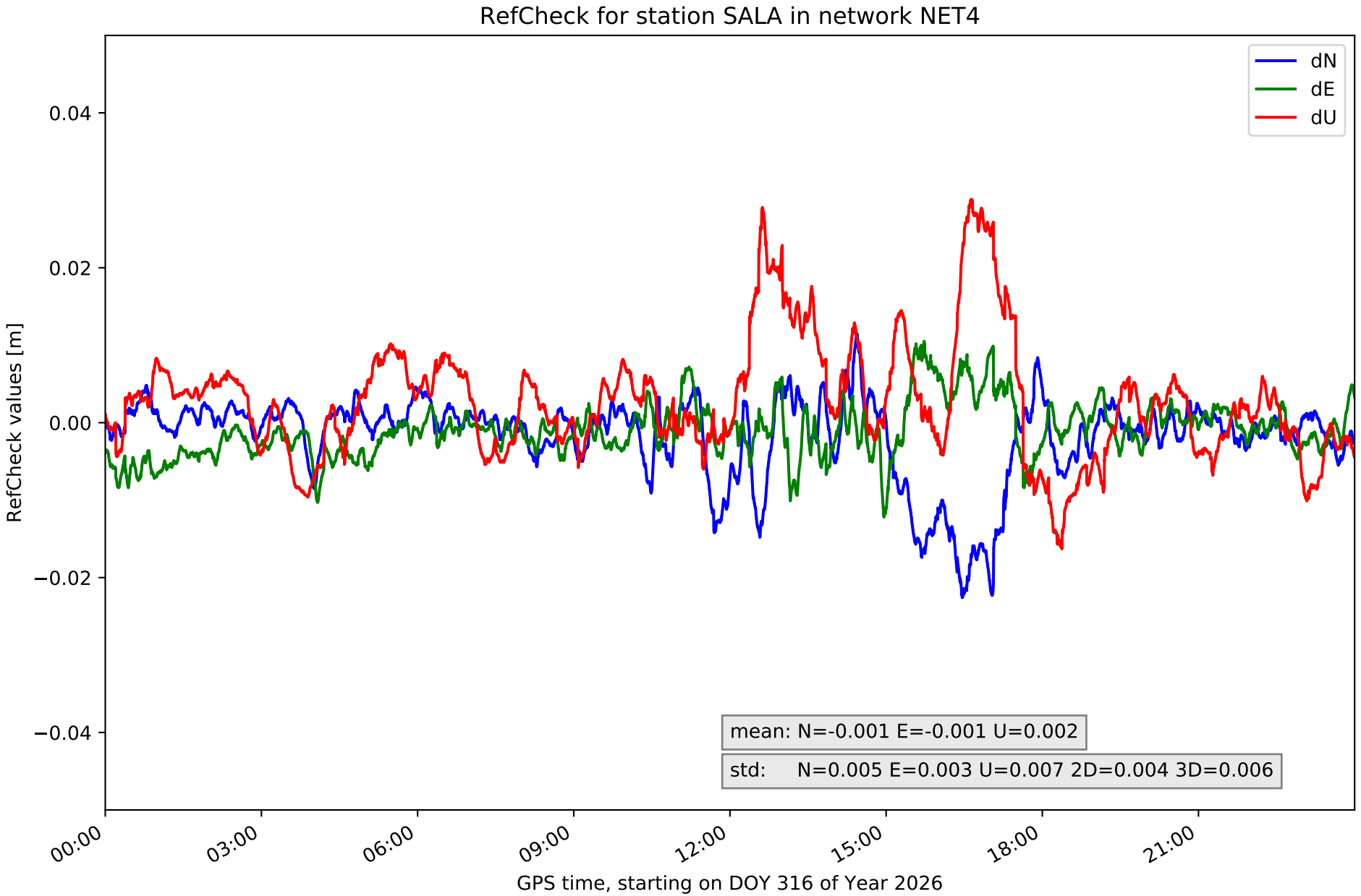

RefCheck for station LERM in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.002 E=-0.002 U=-0.003
std: N=0.005 E=0.004 U=0.008 2D=0.004 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

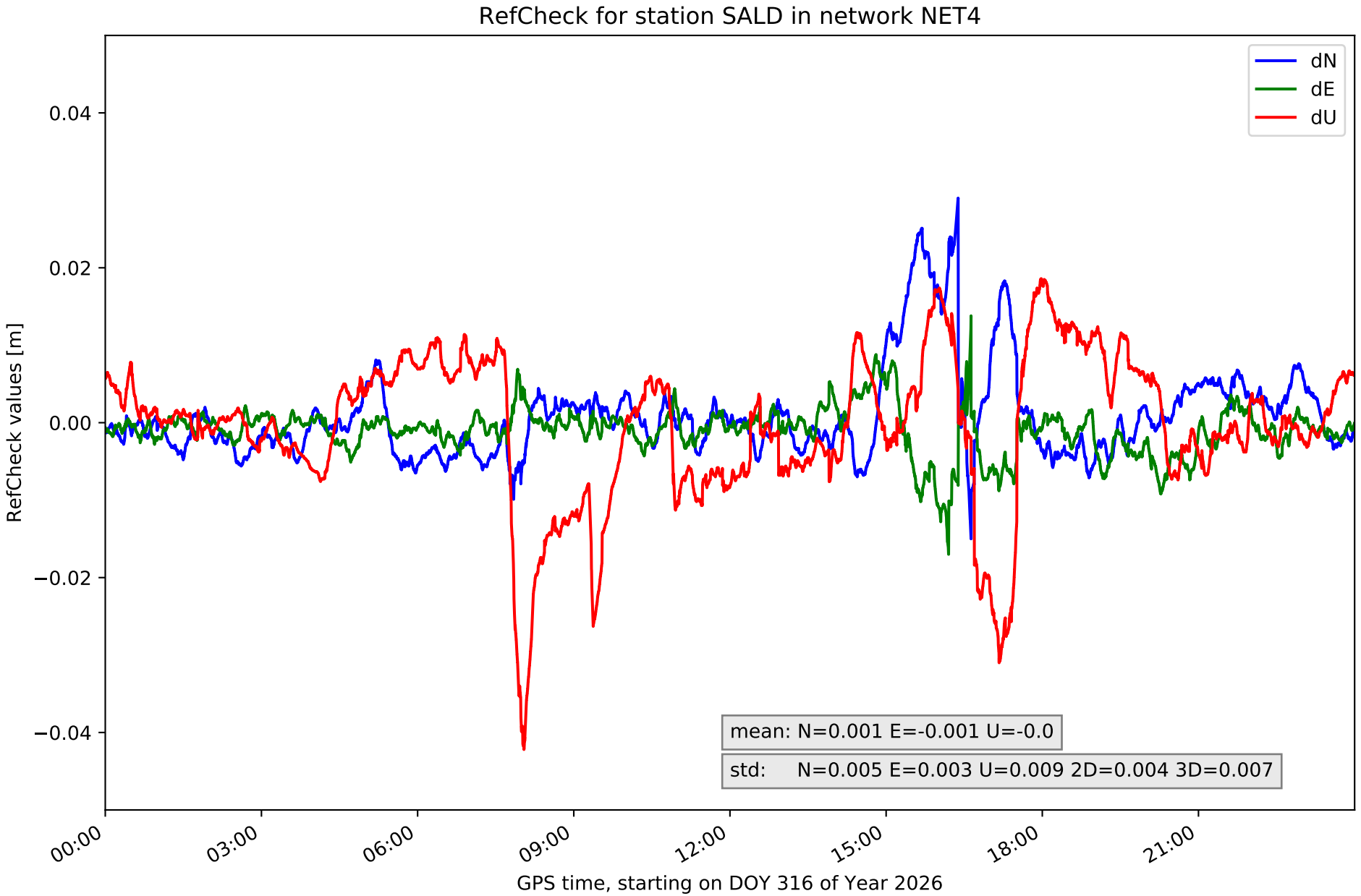

RefCheck for station MDNR in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.004 E=0.001 U=0.002
std: N=0.003 E=0.003 U=0.008 2D=0.003 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

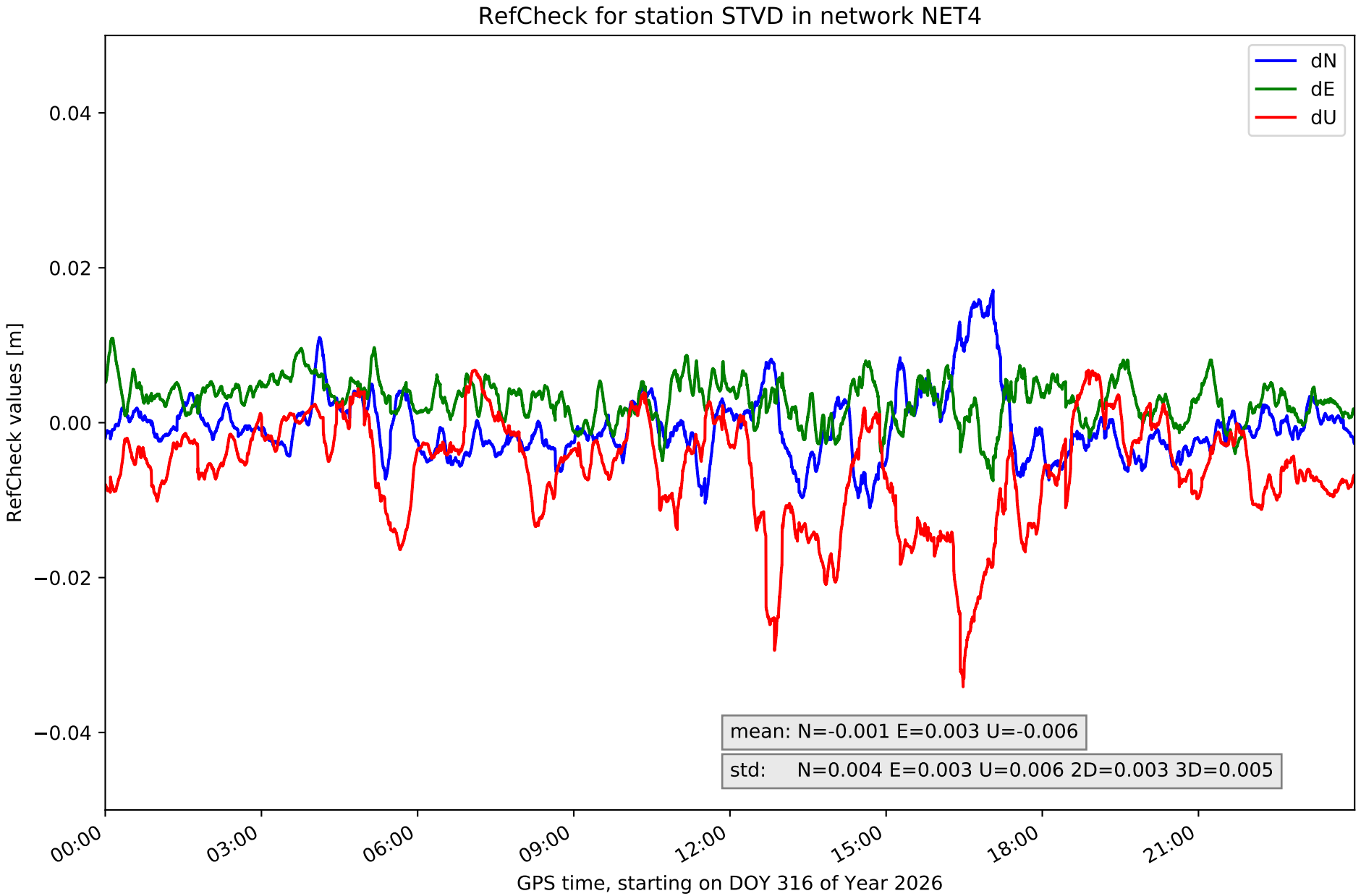

RefCheck for station MYRG in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.001 U=-0.004
std: N=0.004 E=0.003 U=0.005 2D=0.003 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

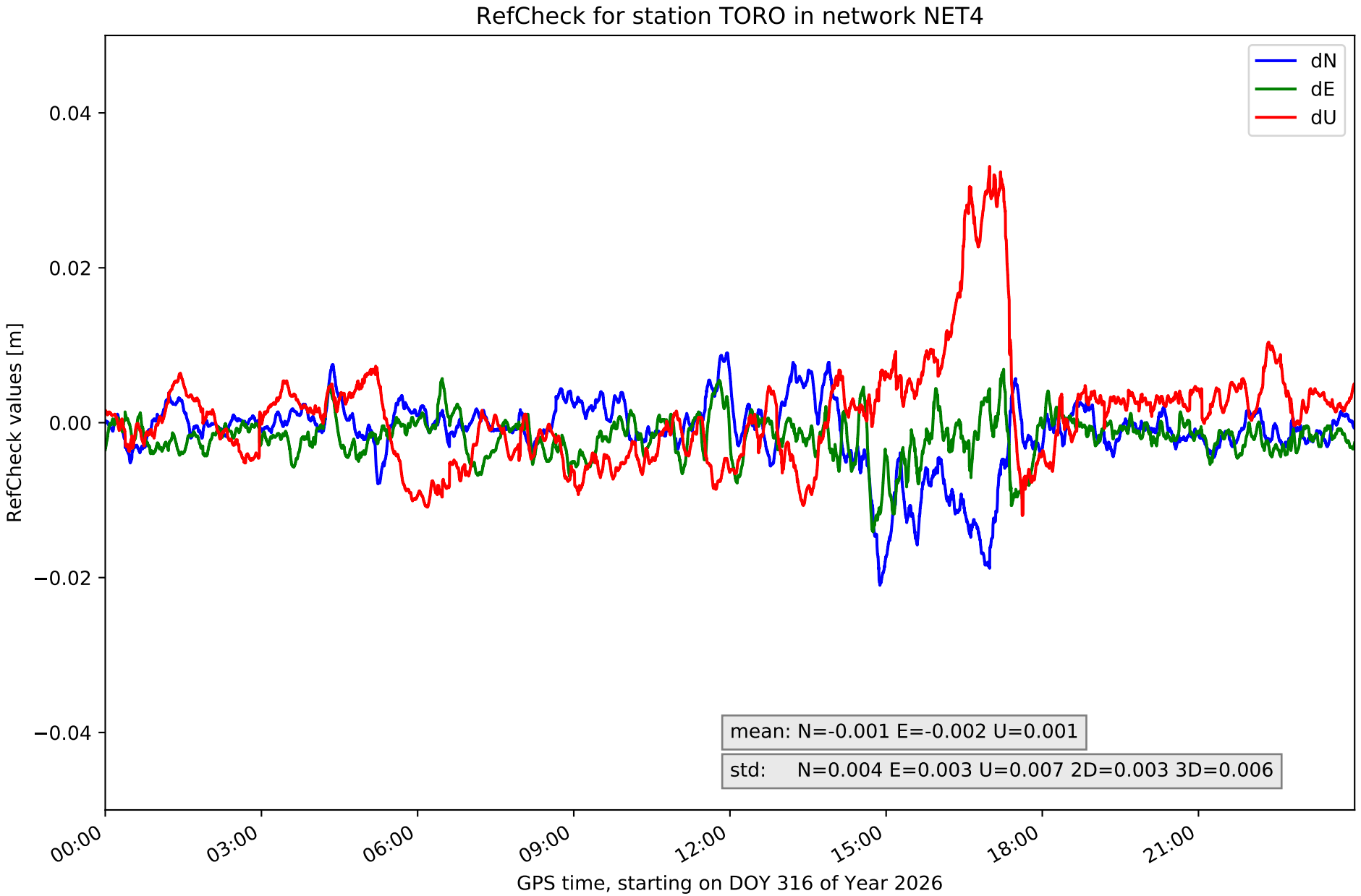

RefCheck for station PALE in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.0 E=-0.003 U=-0.001
std: N=0.003 E=0.004 U=0.008 2D=0.003 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

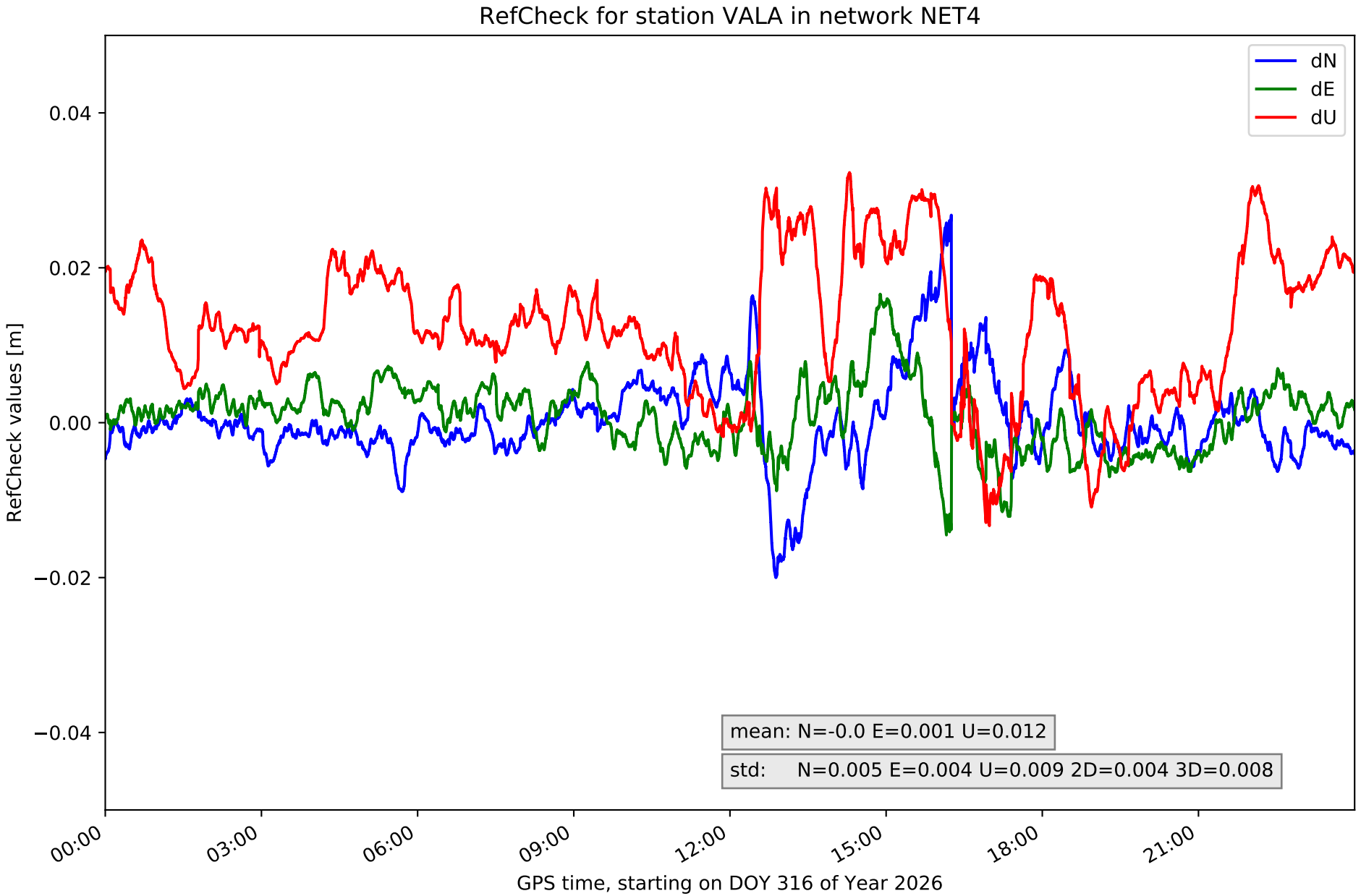

RefCheck for station PDB1 in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.004 E=0.001 U=-0.0
std: N=0.006 E=0.005 U=0.006 2D=0.005 3D=0.006
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

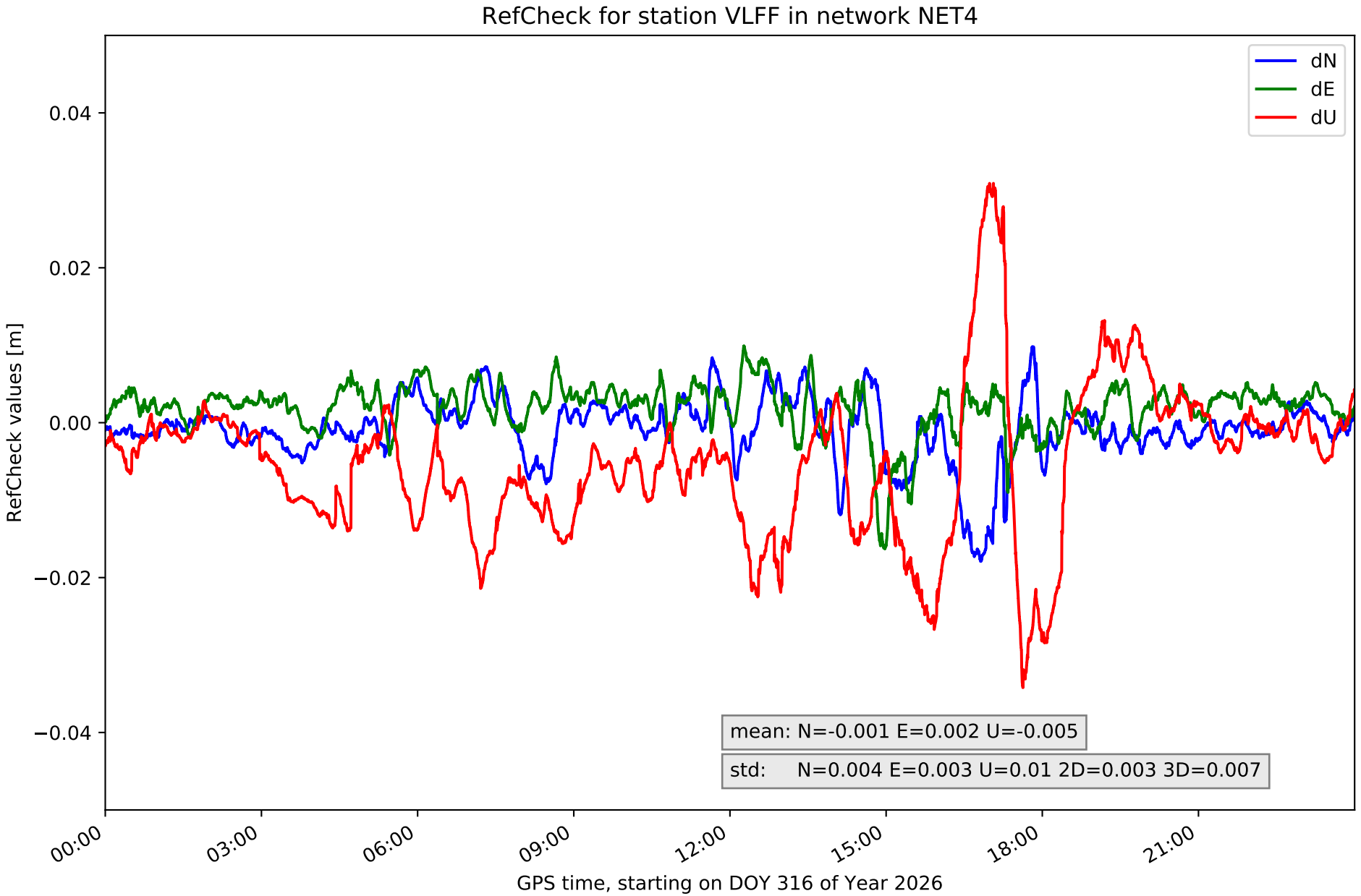

RefCheck for station SALA in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.001 U=0.002
std: N=0.005 E=0.003 U=0.007 2D=0.004 3D=0.006
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

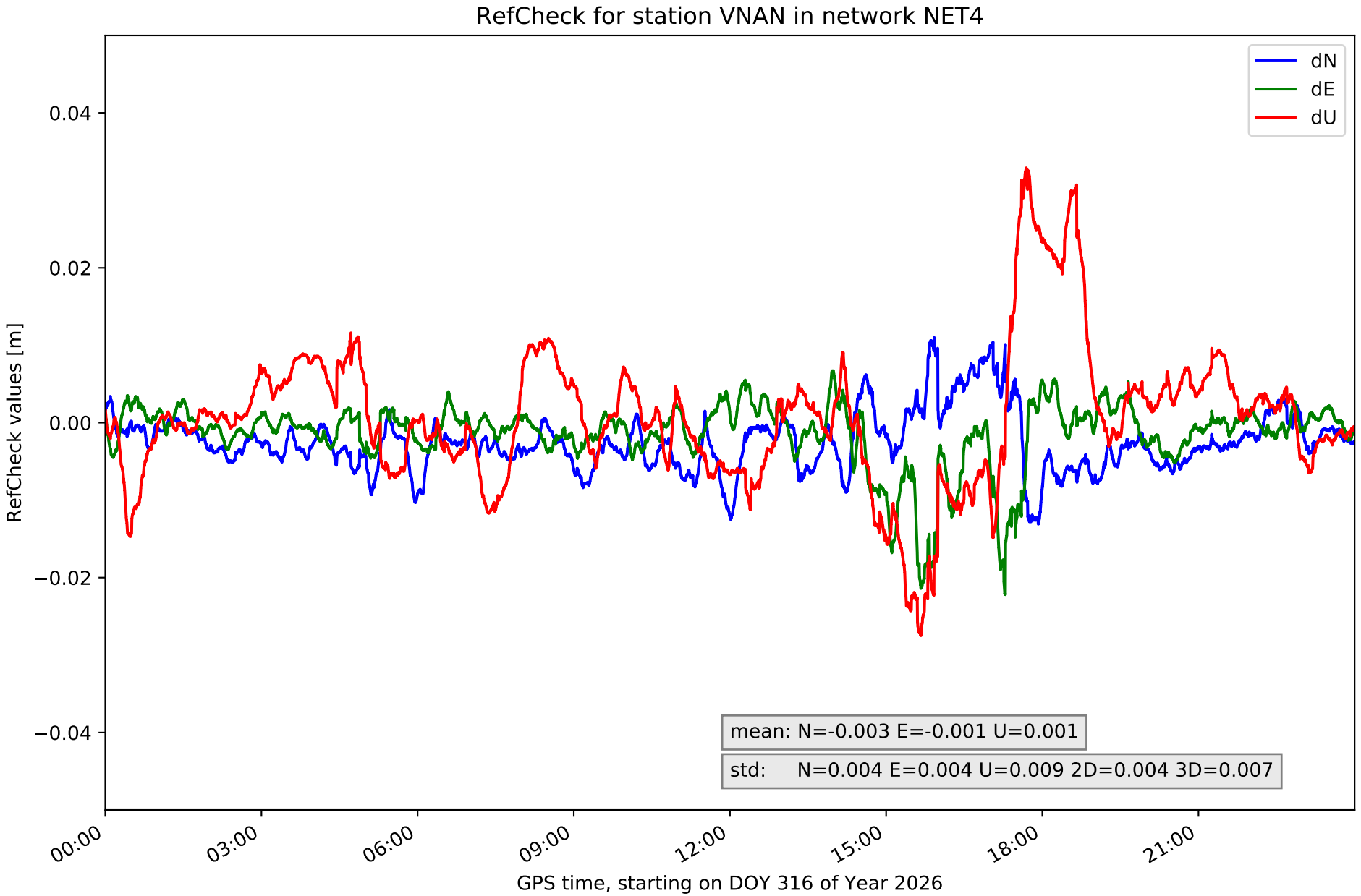

RefCheck for station SALD in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=-0.001 U=-0.0
std: N=0.005 E=0.003 U=0.009 2D=0.004 3D=0.007
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

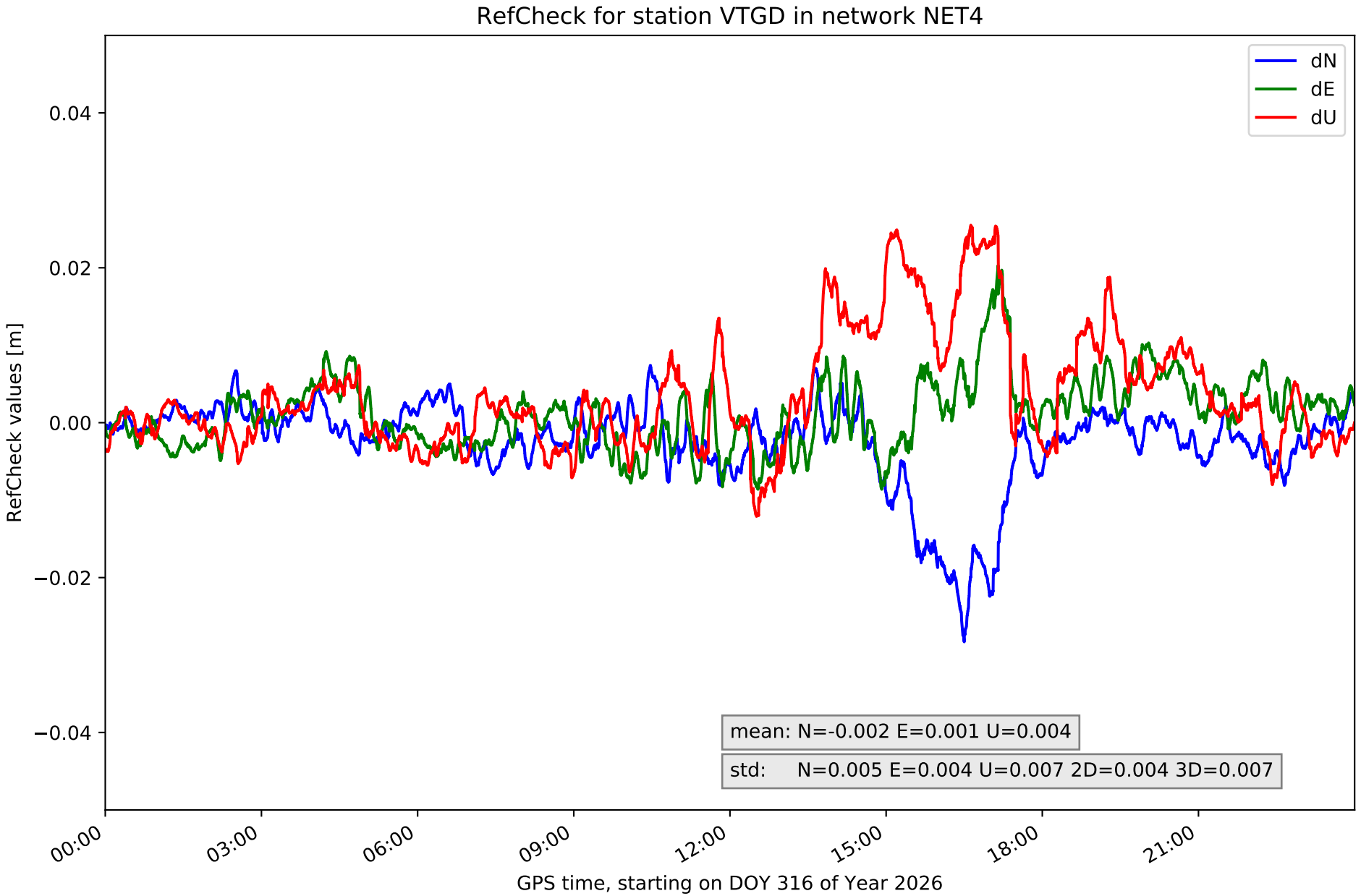

RefCheck for station STVD in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=0.003 U=-0.006
std: N=0.004 E=0.003 U=0.006 2D=0.003 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026

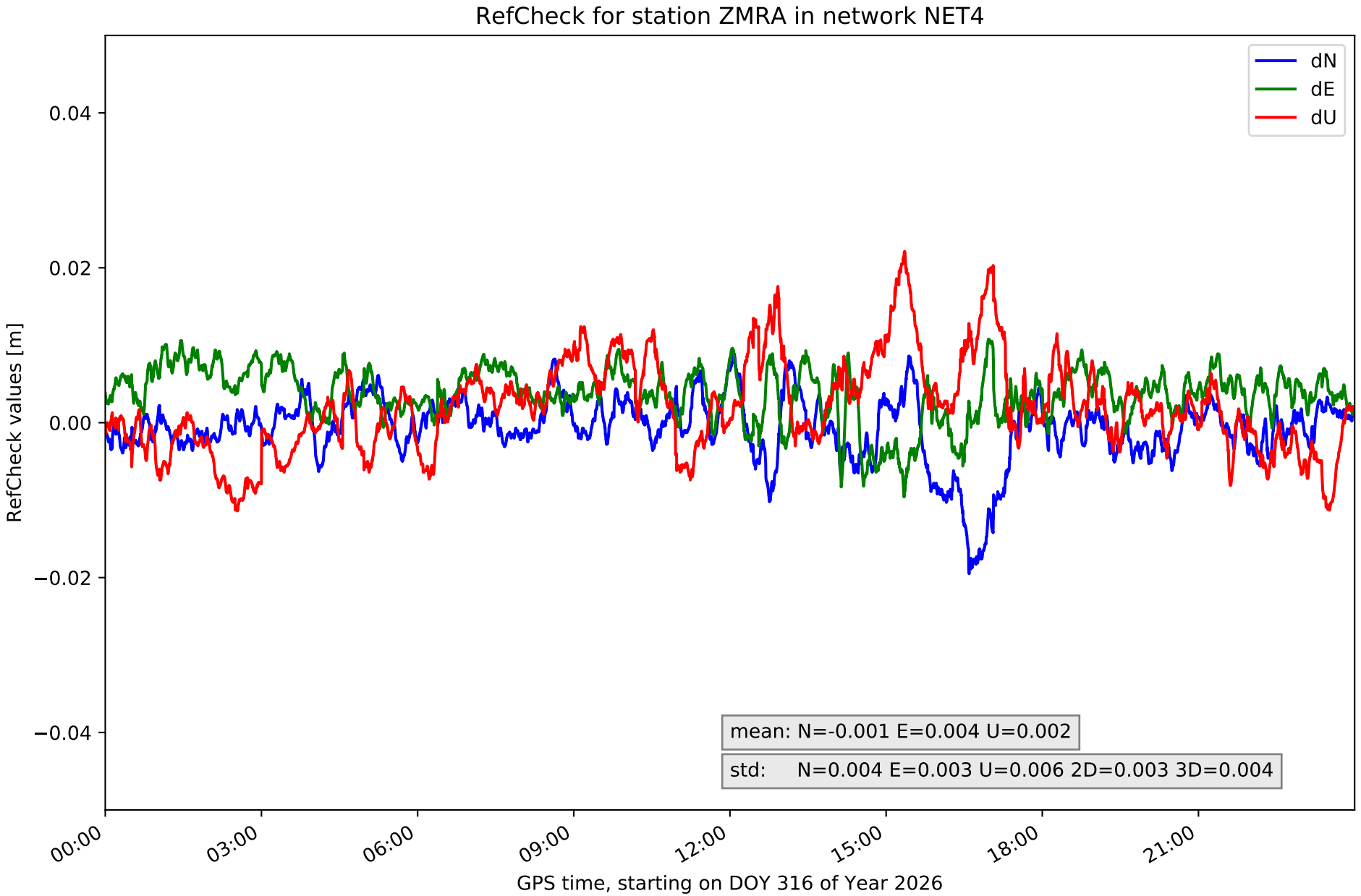

RefCheck for station TORO in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.002 U=0.001
std: N=0.004 E=0.003 U=0.007 2D=0.003 3D=0.006
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026


RefCheck for station VALA in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.0 E=0.001 U=0.012
std: N=0.005 E=0.004 U=0.009 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 316 of Year 2026


RefCheck for station VLFF in network NET4
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=0.004 E=0.003 U=0.01 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 316 of Year 2026


RefCheck for station VNAN in network NET4
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=0.004 E=0.004 U=0.009 2D=0.004 3D=0.007
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026


RefCheck for station VTGD in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.002 E=0.001 U=0.004
std: N=0.005 E=0.004 U=0.007 2D=0.004 3D=0.007
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 316 of Year 2026


RefCheck for station ZMRA in network NET4
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=0.004 U=0.002
std: N=0.004 E=0.003 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 316 of Year 2026

# RefCheck values for network NET4

| Station | Nmin | Nmax | Nstd | Emin | Emax | Estd | Umin | Umax | Ustd | std2D | std3D | #2D > 0.01 | % 2D > 0.01 | #3D > 0.02 | % 3D > 0.02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ACNS | -0.007 | 0.016 | 0.004 | -0.016 | 0.021 | 0.004 | -0.014 | 0.031 | 0.007 | 0.003 | 0.005 | 3521 | 7.0 | 977 | 2.0 |
| CDRD | -0.026 | 0.021 | **0.006** | -0.011 | 0.023 | 0.004 | -0.028 | 0.023 | 0.009 | **0.005** | 0.006 | 5021 | 10.0 | 4662 | 9.3 |
| CRPO | -0.007 | 0.009 | 0.003 | -0.008 | 0.016 | 0.003 | -0.022 | 0.018 | 0.006 | 0.002 | 0.004 | 667 | 1.3 | 1046 | 2.1 |
| GUIJ | -0.025 | 0.022 | **0.006** | -0.007 | 0.018 | 0.004 | -0.021 | 0.032 | 0.008 | **0.005** | 0.007 | 4486 | 9.0 | 2842 | 5.7 |
| LERM | -0.019 | 0.019 | 0.005 | -0.023 | **0.029** | 0.004 | -0.027 | 0.018 | 0.008 | 0.004 | 0.005 | 4018 | 8.0 | 2611 | 5.2 |
| MDNR | -0.011 | 0.018 | 0.003 | -0.011 | 0.015 | 0.003 | -0.036 | 0.016 | 0.008 | 0.003 | 0.005 | 3345 | 6.7 | 2142 | 4.3 |
| MYRG | -0.008 | 0.022 | 0.004 | -0.013 | 0.014 | 0.003 | -0.022 | 0.011 | 0.005 | 0.003 | 0.004 | 2411 | 4.8 | 1022 | 2.0 |
| PALE | -0.013 | 0.018 | 0.003 | -0.024 | 0.018 | 0.004 | -0.033 | 0.018 | 0.008 | 0.003 | 0.005 | 3025 | 6.0 | 2439 | 4.9 |
| PDB1 | -0.027 | 0.025 | **0.006** | **-0.026** | 0.019 | **0.005** | -0.023 | 0.026 | 0.006 | **0.005** | 0.006 | **6954** | **13.9** | 3529 | 7.0 |
| SALA | -0.023 | 0.011 | 0.005 | -0.012 | 0.011 | 0.003 | -0.016 | 0.029 | 0.007 | 0.004 | 0.006 | 4339 | 8.7 | 2384 | 4.8 |
| SALD | -0.015 | **0.029** | 0.005 | -0.017 | 0.014 | 0.003 | **-0.042** | 0.019 | 0.009 | 0.004 | 0.007 | 3265 | 6.5 | 3768 | 7.5 |
| STVD | -0.011 | 0.017 | 0.004 | -0.007 | 0.011 | 0.003 | -0.034 | 0.007 | 0.006 | 0.003 | 0.005 | 2180 | 4.4 | 1997 | 4.0 |
| TORO | -0.021 | 0.009 | 0.004 | -0.014 | 0.007 | 0.003 | -0.012 | **0.033** | 0.007 | 0.003 | 0.006 | 3156 | 6.3 | 1848 | 3.7 |
| VALA | -0.02 | 0.027 | 0.005 | -0.015 | 0.017 | 0.004 | -0.013 | 0.032 | 0.009 | 0.004 | **0.008** | 4648 | 9.3 | **11820** | **23.6** |
| VLFF | -0.018 | 0.01 | 0.004 | -0.016 | 0.01 | 0.003 | -0.034 | 0.031 | **0.01** | 0.003 | 0.007 | 2520 | 5.0 | 5528 | 11.0 |
| VNAN | -0.013 | 0.011 | 0.004 | -0.022 | 0.007 | 0.004 | -0.028 | **0.033** | 0.009 | 0.004 | 0.007 | 4467 | 8.9 | 4692 | 9.4 |
| VTGD | **-0.028** | 0.007 | 0.005 | -0.009 | 0.02 | 0.004 | -0.012 | 0.025 | 0.007 | 0.004 | 0.007 | 3791 | 7.6 | 3661 | 7.3 |
| ZMRA | -0.019 | 0.009 | 0.004 | -0.01 | 0.011 | 0.003 | -0.011 | 0.022 | 0.006 | 0.003 | 0.004 | 1835 | 3.7 | 1112 | 2.2 |
| **Mean** | **-0.017** | **0.017** | **0.004** | **-0.014** | **0.016** | **0.004** | **-0.024** | **0.024** | **0.008** | **0.004** | **0.006** | **3536.1** | **7.1** | **3226.7** | **6.4** |
| **Min/Max** | **-0.028** | **0.029** | **0.006** | **-0.026** | **0.029** | **0.005** | **-0.042** | **0.033** | **0.01** | **0.005** | **0.008** | **6954** | **13.9** | **11820** | **23.6** |

# fixing statistic for network NET4

| fixing percentage of | all GNSS | G | R | E | C |
|---|---|---|---|---|---|
| using threshold 0.3 | 92.6 | 92.5 | 92.1 | 94.4 | 91.4 |
| considering satellites with dual-frequency fixed | 89.2 | 90.4 | 87.4 | 91.3 | 86.6 |
| considering all signals separately | 89.3 | 90.6 | 87.4 | 91.6 | 85.0 |