# summary for network NT12

timeperiod chosen: from 2026-11-08-00:00:00 until 2026-11-08-23:59:58

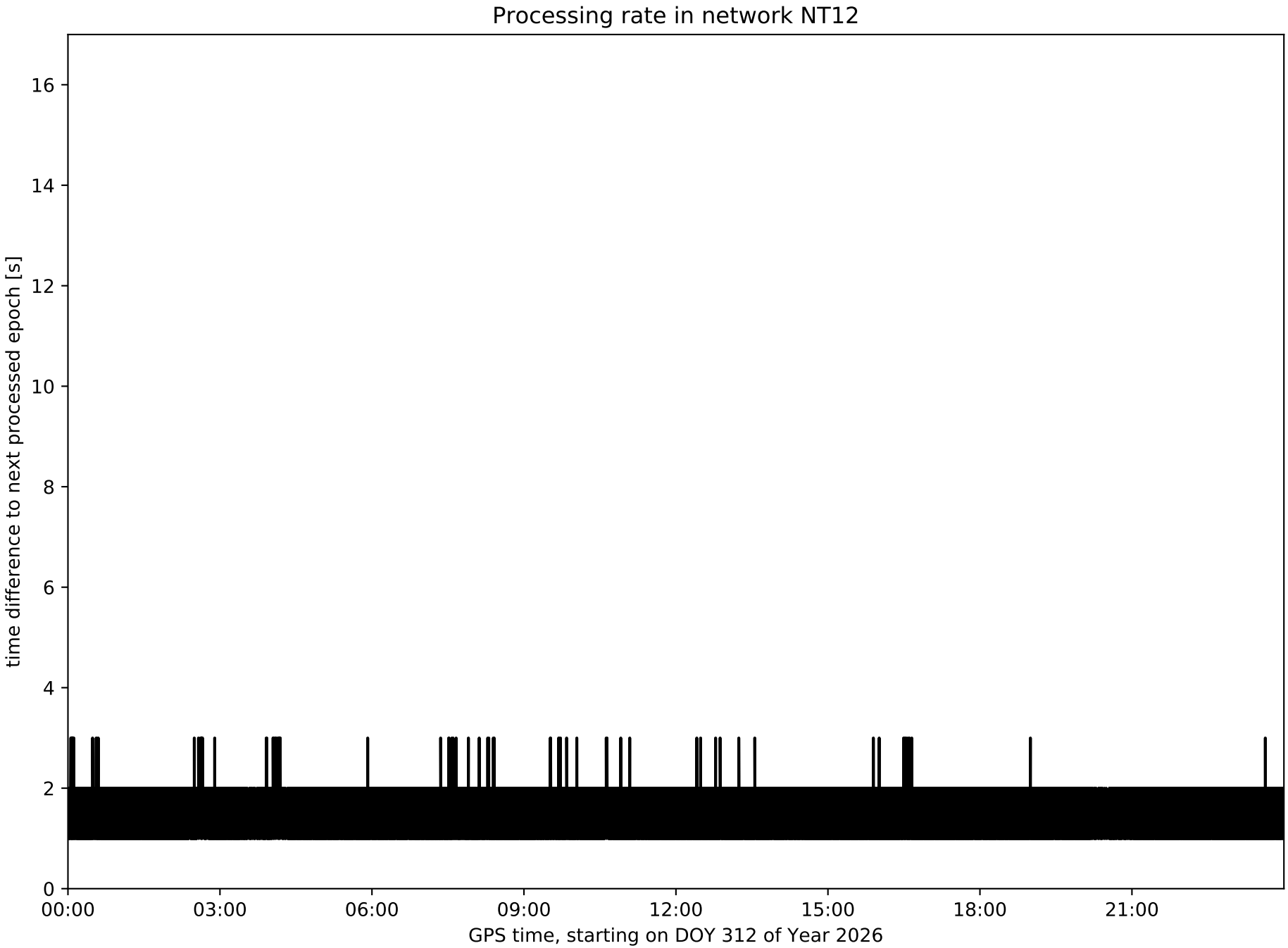
average update rate (durations larger than 15 seconds considered as observation gap): 1.2 seconds

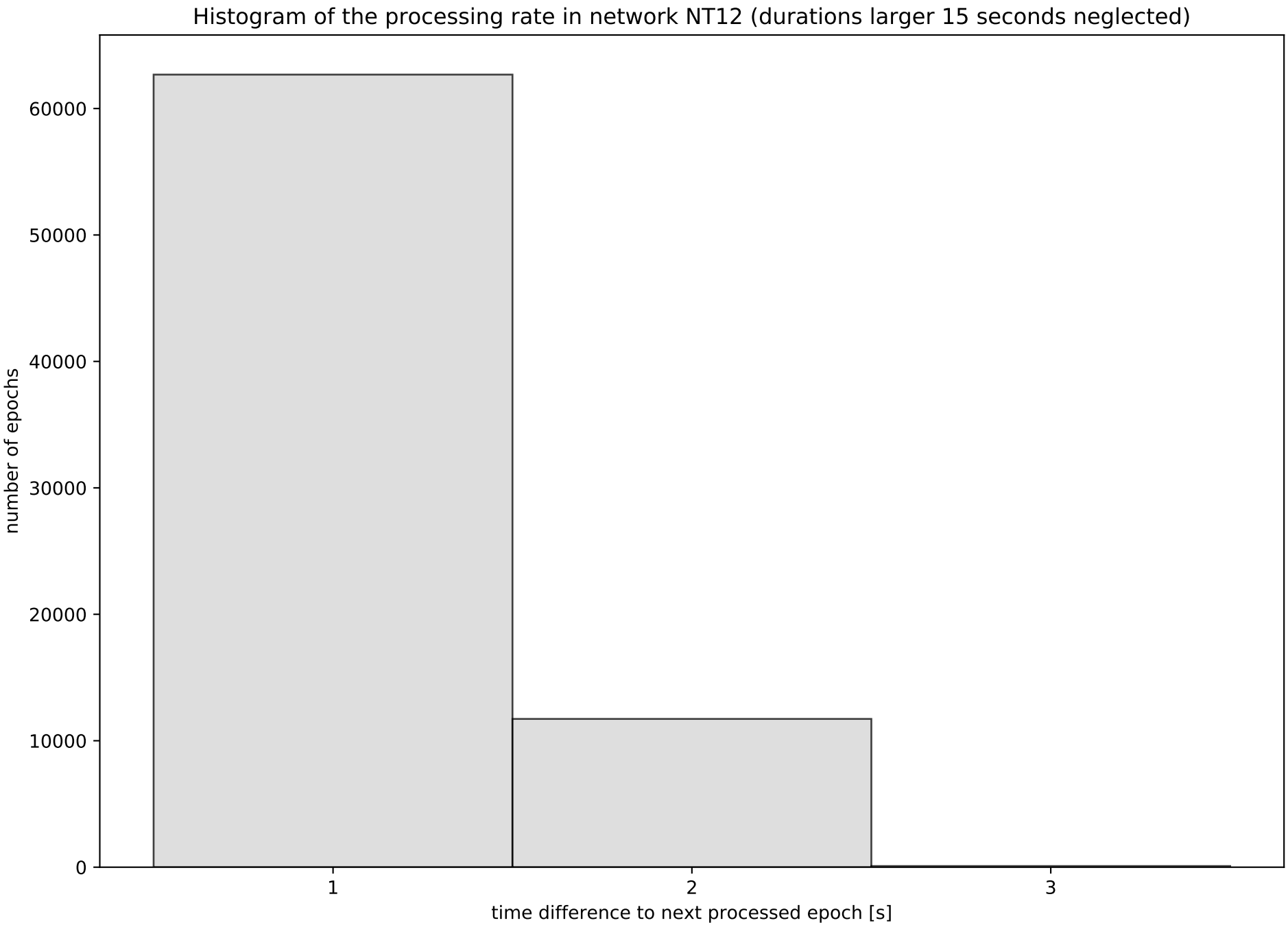
average fixing percentage with threshold set to 0.3: 95.0 percent

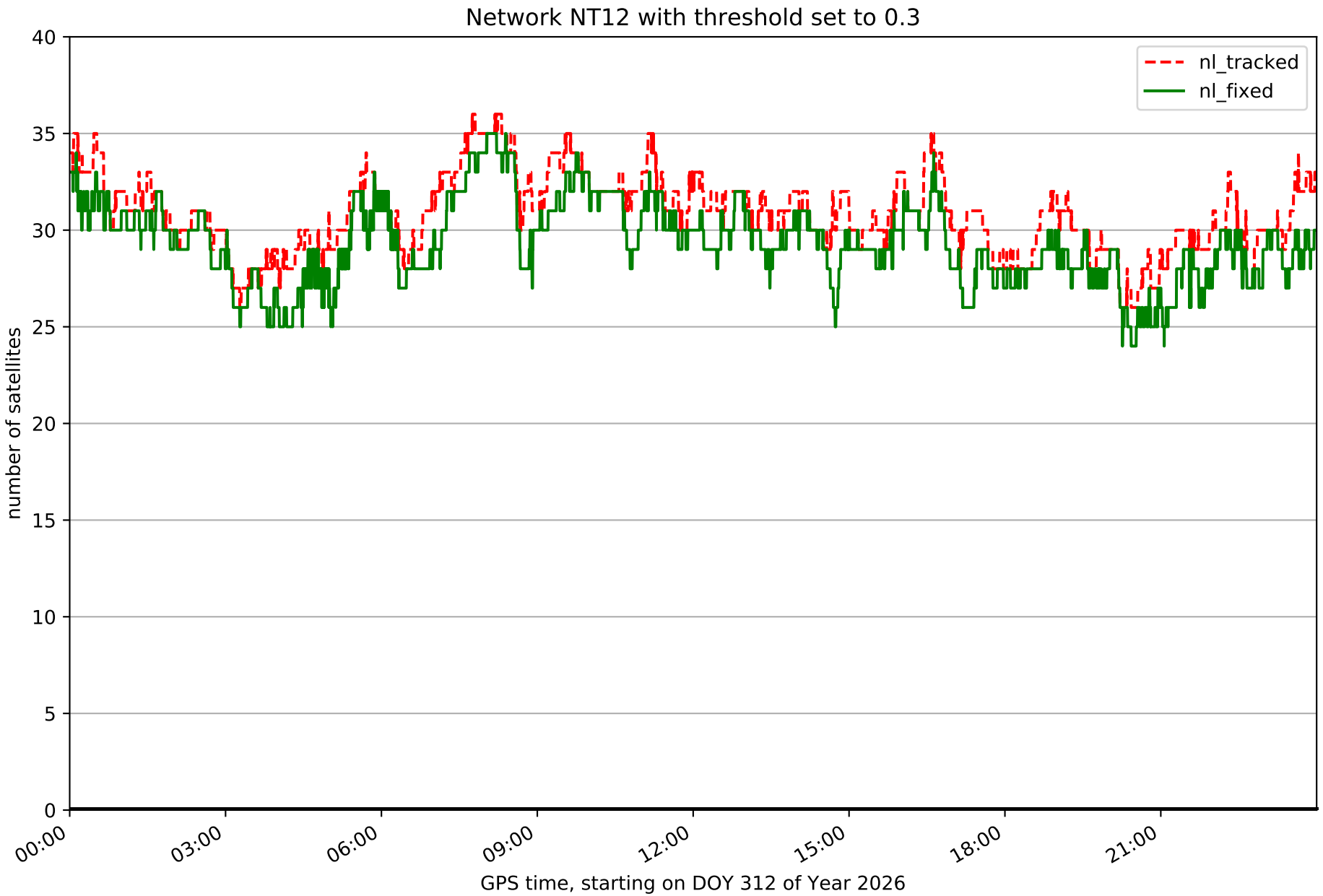
stations available: 17 of 17

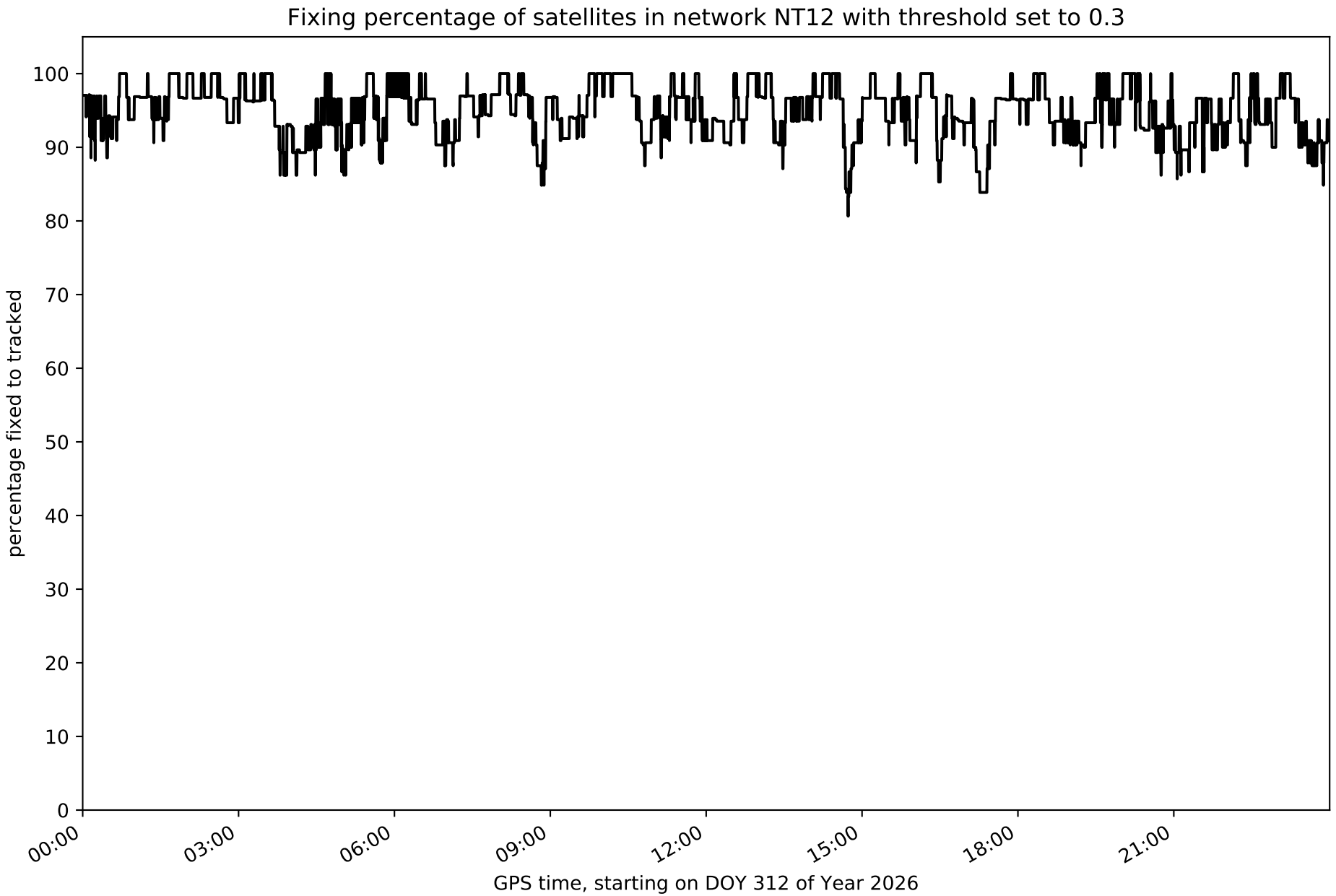
station information:

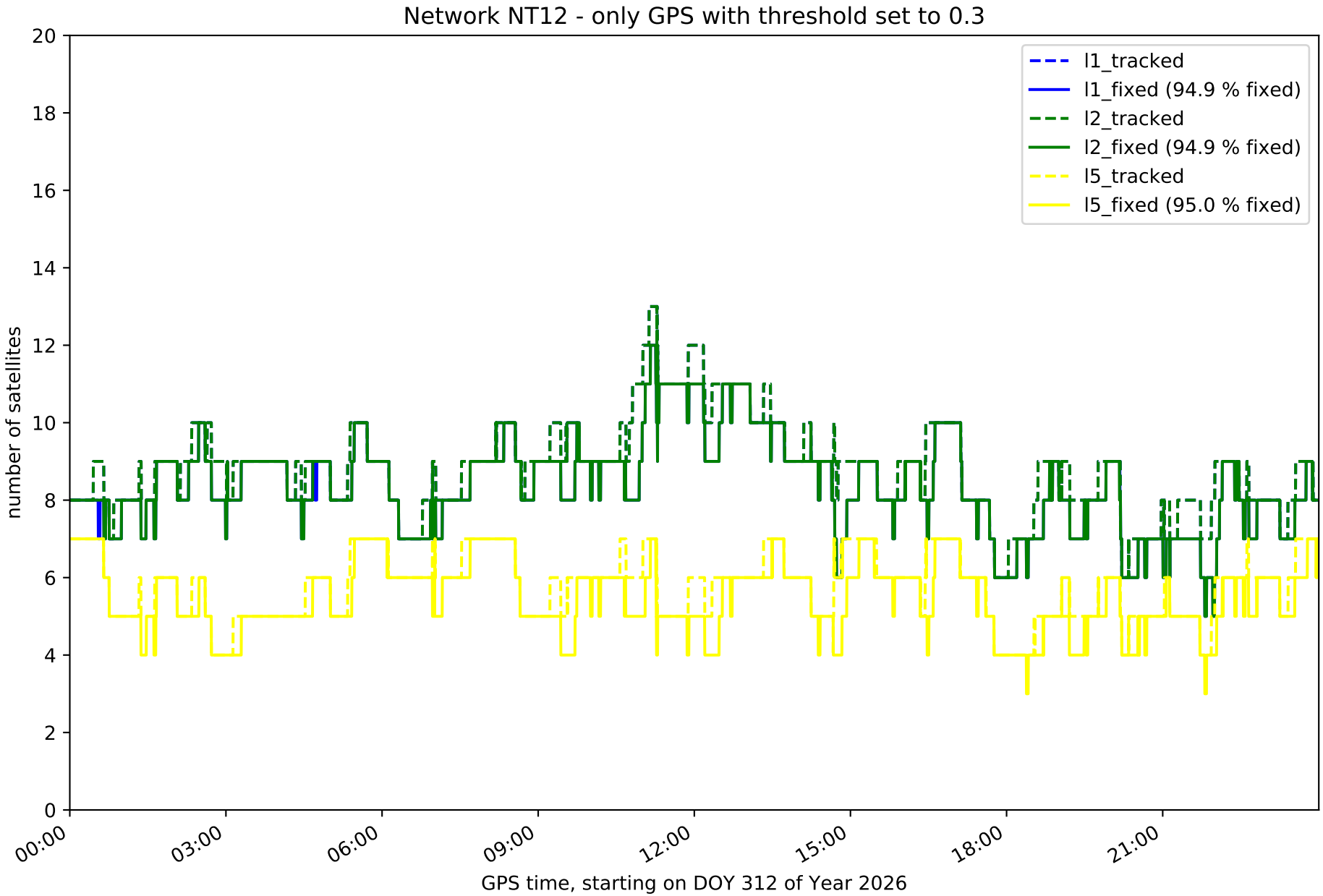
| | | | | |
|---|---|---|---|---|
| station ALME: | antenna: TRM29659.00 | NONE | receiver: TRIMBLE NETR9 | height: 130.531 |
| station CAAL: | antenna: LEIAR10 | NONE | receiver: LEICA GR25 | height: 2210.78 |
| station CABP: | antenna: LEIAR20 | LEIM | receiver: LEICA GR50 | height: 57.437 |
| station CARG: | antenna: LEIAR20 | LEIM | receiver: LEICA GR50 | height: 57.37 |
| station CARV: | antenna: LEIAR25.R3 | LEIT | receiver: LEICA GR50 | height: 902.401 |
| station CDCR: | antenna: LEIAR20 | LEIM | receiver: LEICA GR50 | height: 1331.713 |
| station CIEZ: | antenna: LEIAT504GG | LEIS | receiver: LEICA GR30 | height: 328.354 |
| station EJID: | antenna: GPPNULLANTENNA | NONE | receiver: LEICA GR50 | height: 155.004 |
| station ESPU: | antenna: LEIAT504GG | LEIS | receiver: LEICA GR10 | height: 1615.085 |
| station GRA1: | antenna: LEIAT504_____ | LEIS | receiver: LEICA GR50 | height: 823.252 |
| station HUOV: | antenna: GPPNULLANTENNA | NONE | receiver: LEICA GR50 | height: 352.188 |
| station MAZA: | antenna: LEIAR25 | LEIT | receiver: LEICA GR30 | height: 105.111 |
| station MUL1: | antenna: LEIAR25 | LEIT | receiver: LEICA GR30 | height: 332.108 |
| station MURC: | antenna: LEIAR20 | LEIM | receiver: LEICA GR50 | height: 125.202 |
| station PALC: | antenna: GPPNULLANTENNA | NONE | receiver: LEICA GR50 | height: 916.942 |
| station UJAE: | antenna: GPPNULLANTENNA | NONE | receiver: LEICA GR50 | height: 527.761 |
| station VICA: | antenna: LEIAR20 | LEIM | receiver: LEICA GR25 | height: 852.494 |

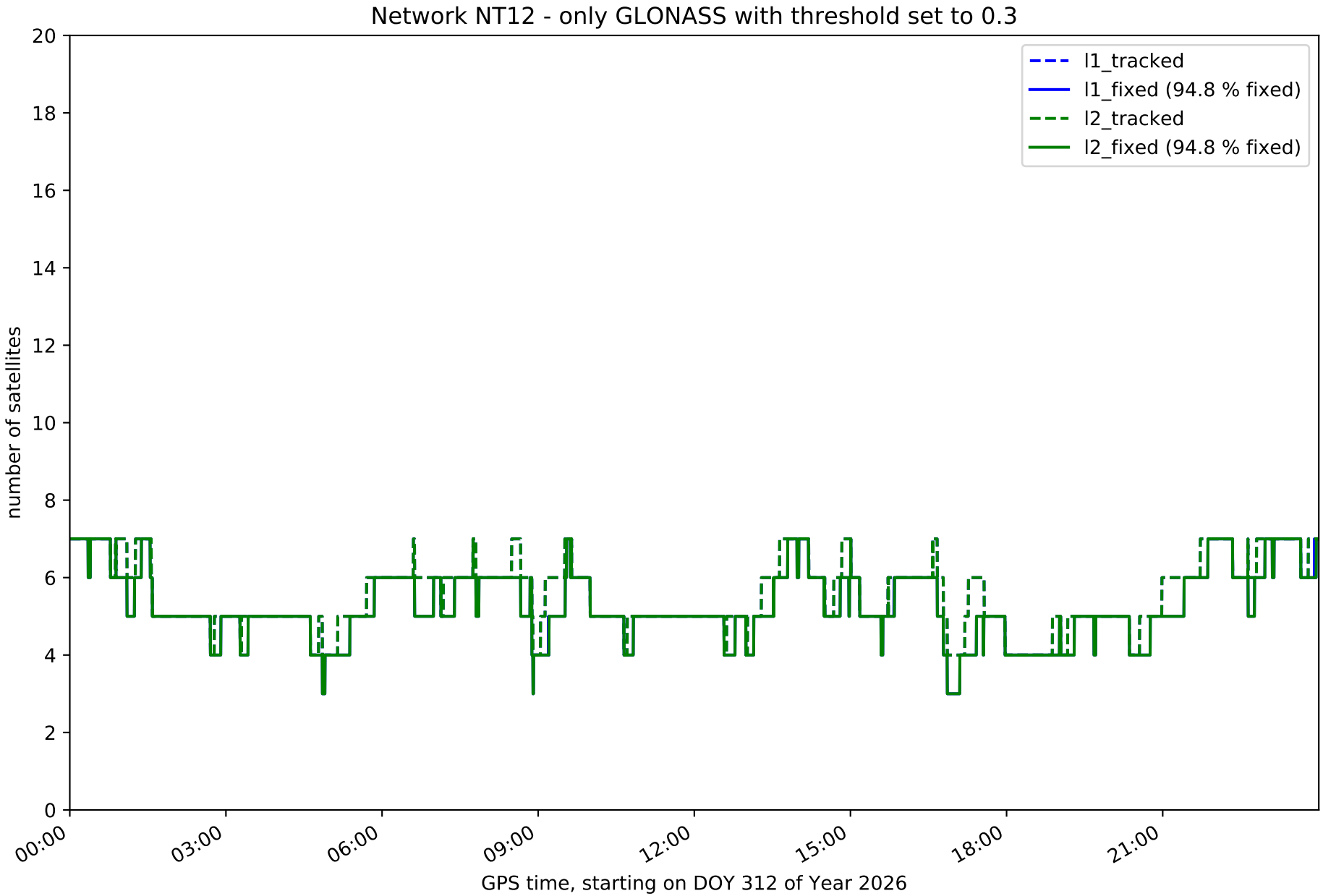

Processing rate in network NT12
time difference to next processed epoch [s]
0
2
4
6
8
10
12
14
16
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

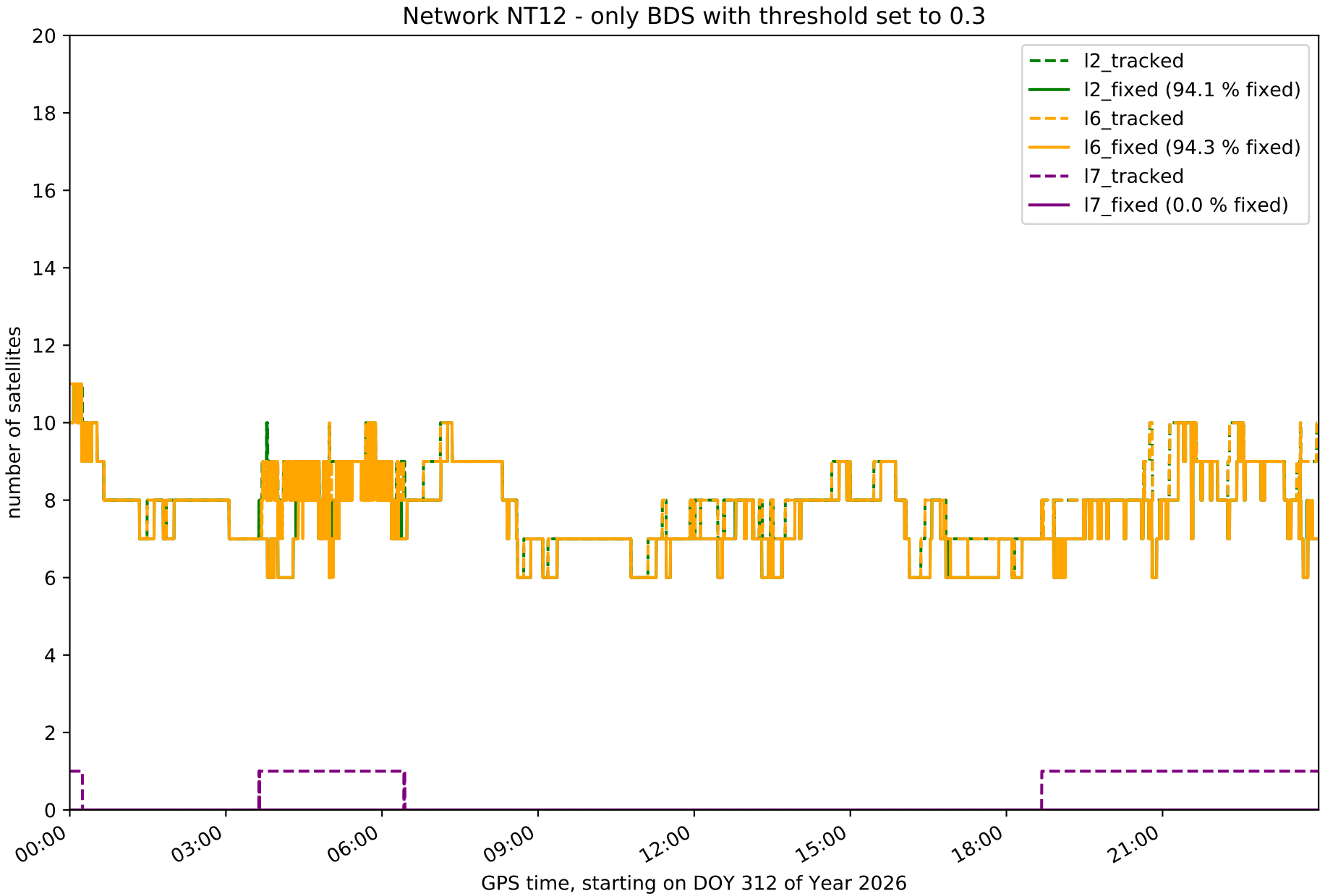

Histogram of the processing rate in network NT12 (durations larger 15 seconds neglected)
number of epochs
60000
50000
40000
30000
20000
10000
0
1
2
3
time difference to next processed epoch [s]

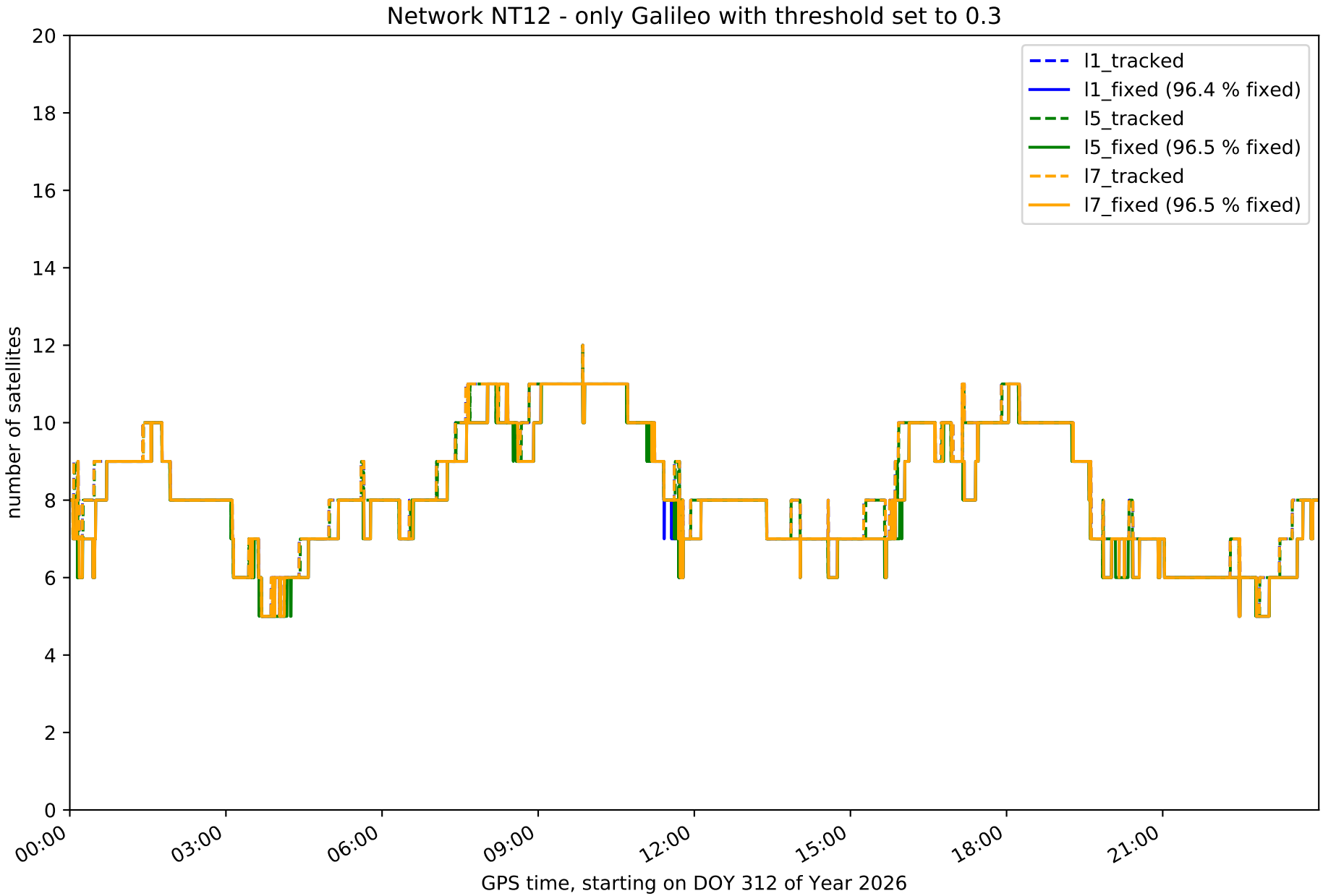

Network NT12 with threshold set to 0.3
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
40
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

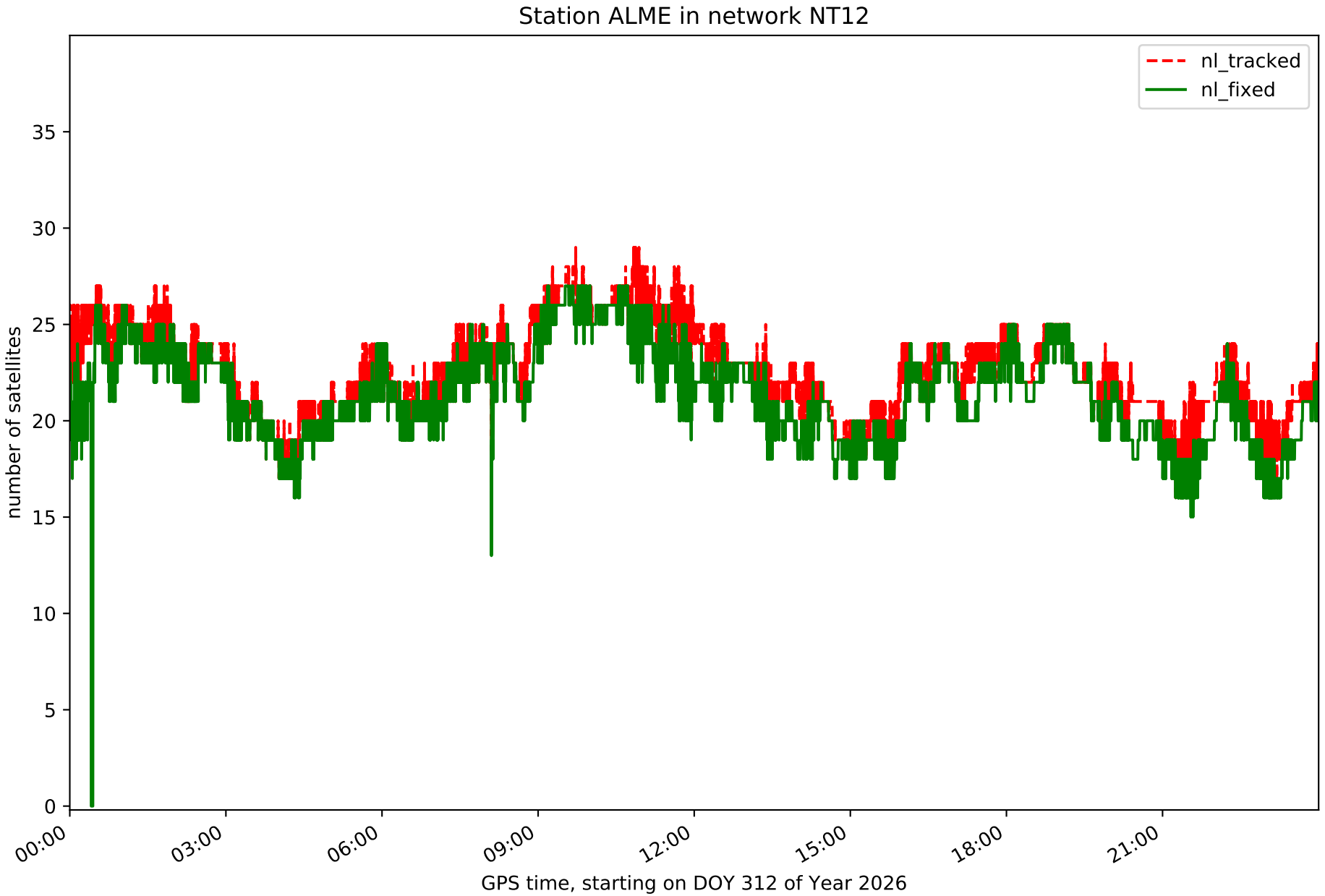

Fixing percentage of satellites in network NT12 with threshold set to 0.3
percentage fixed to tracked
100
90
80
70
60
50
40
30
20
10
0
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

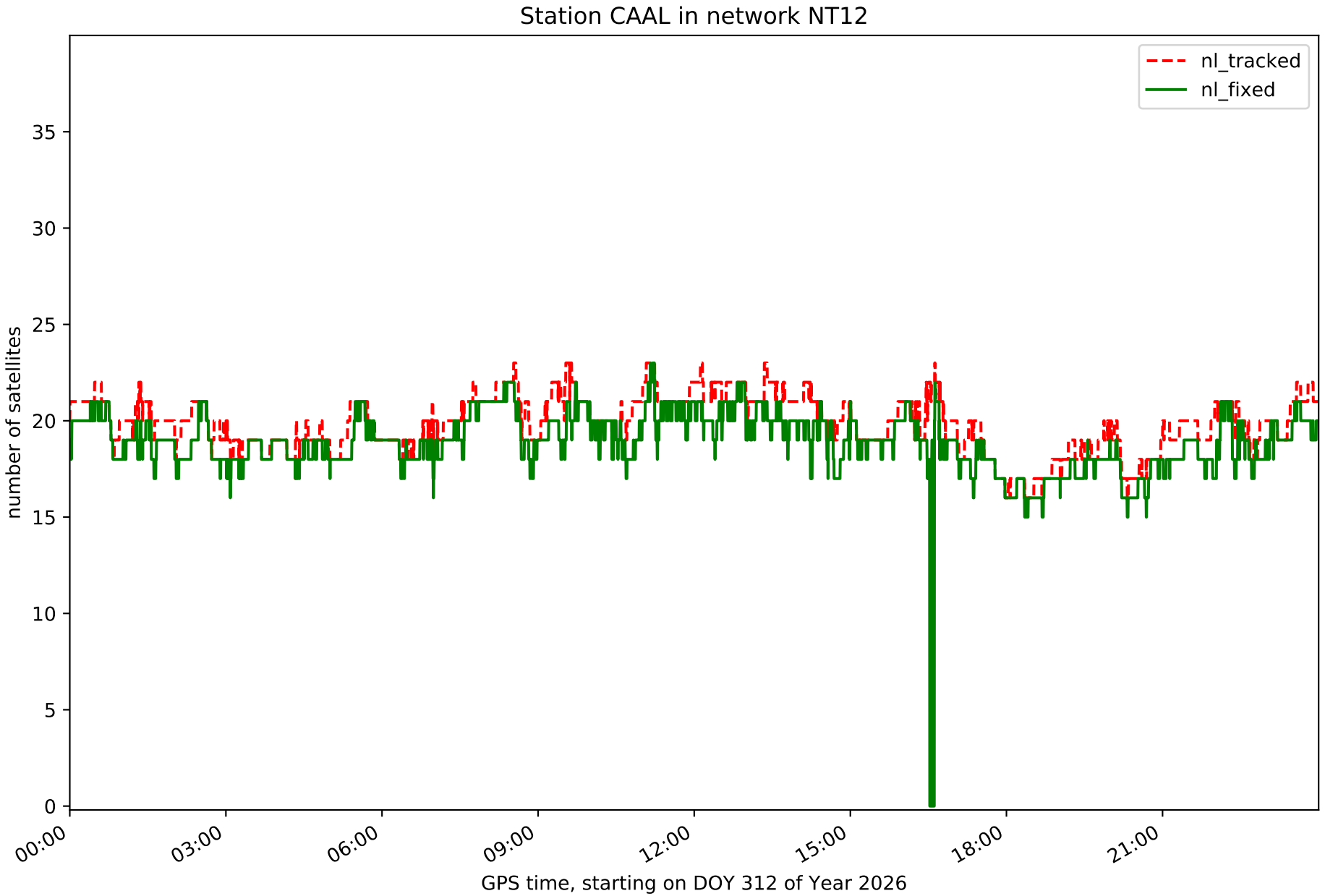

Network NT12 - only GPS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 312 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
l1_tracked
l1_fixed (94.9 % fixed)
l2_tracked
l2_fixed (94.9 % fixed)
l5_tracked
l5_fixed (95.0 % fixed)

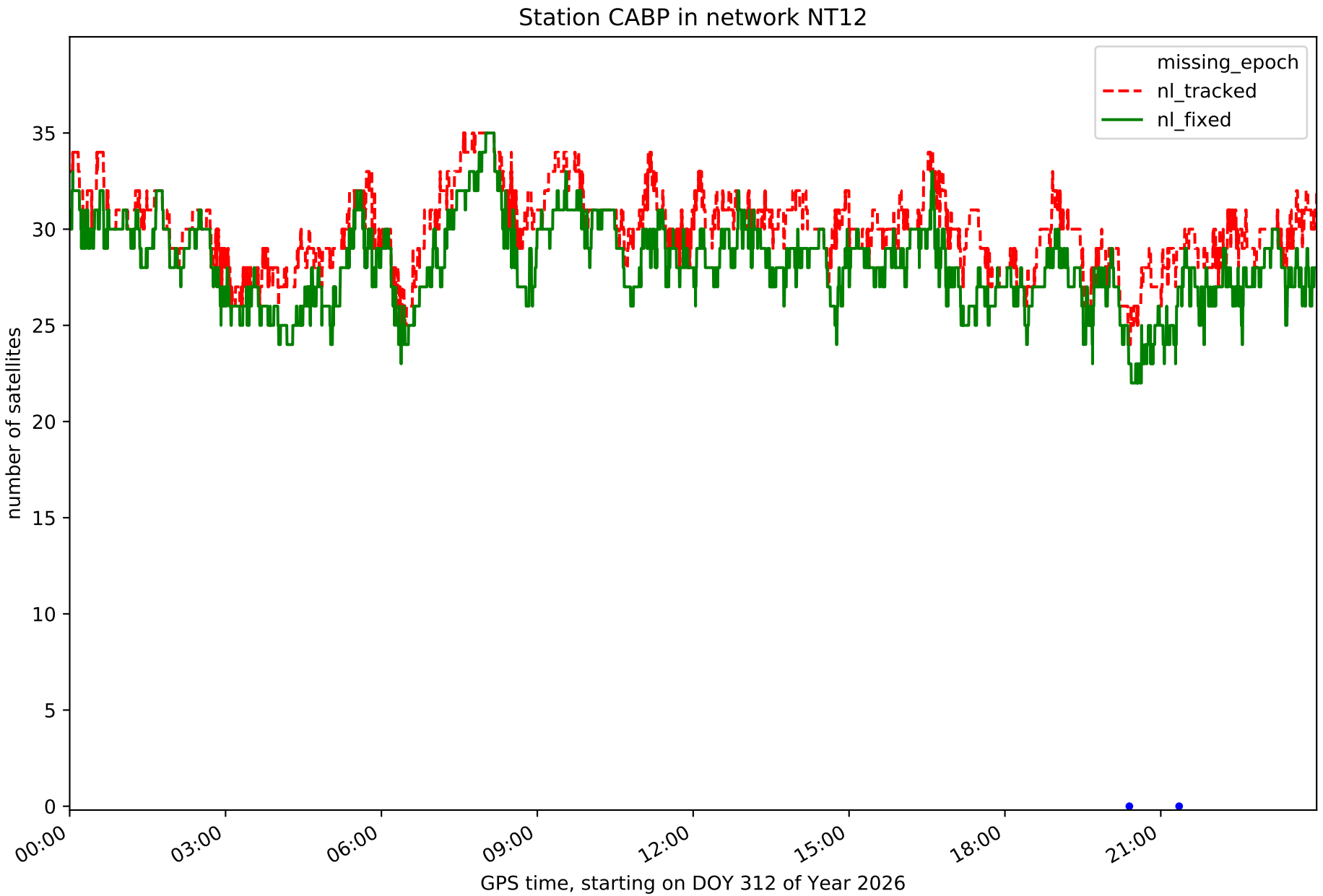

Network NT12 - only GLONASS with threshold set to 0.3
l1_tracked
l1_fixed (94.8 % fixed)
l2_tracked
l2_fixed (94.8 % fixed)
number of satellites
0
2
4
6
8
10
12
14
16
18
20
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

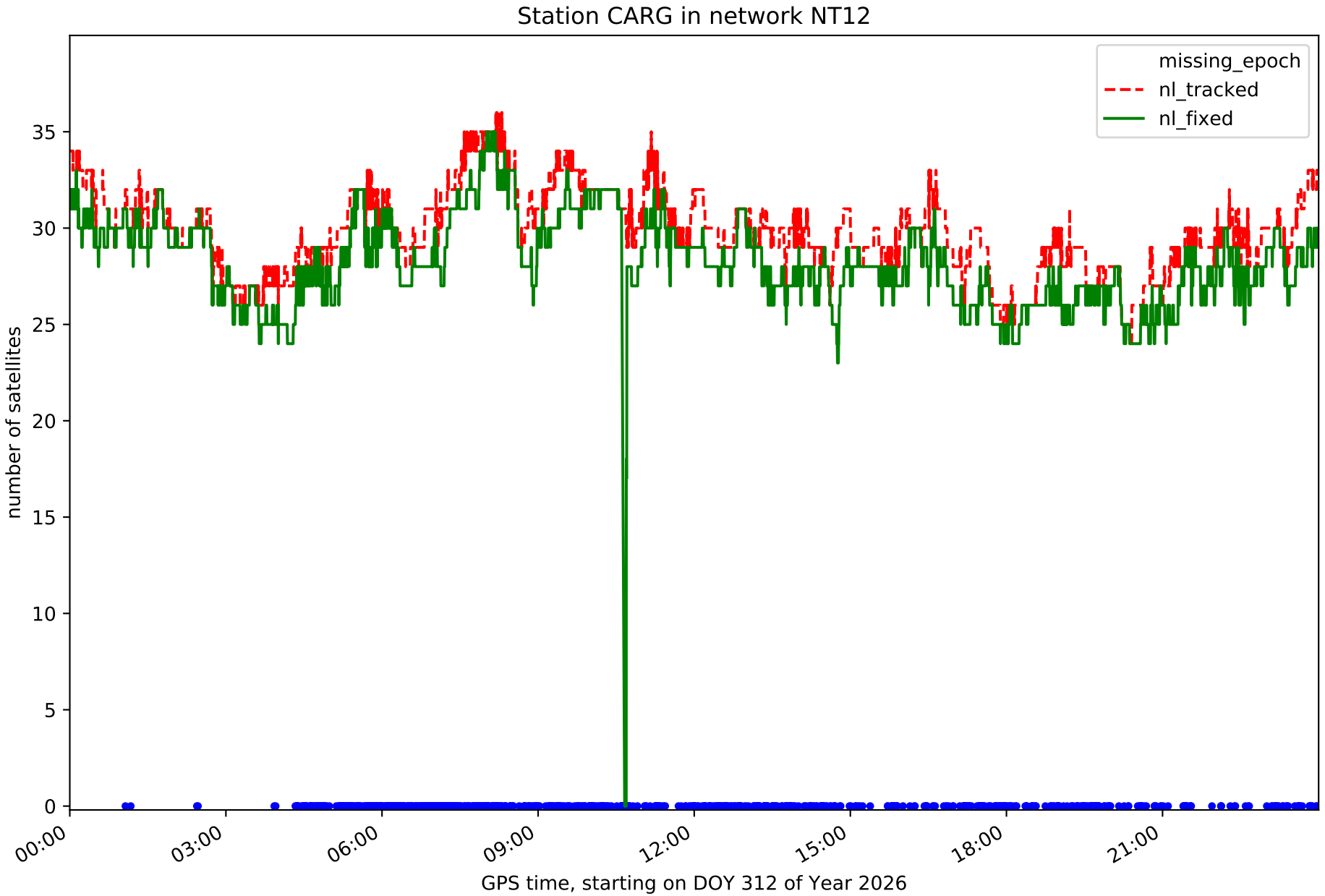

Network NT12 - only BDS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 312 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
I2_tracked
I2_fixed (94.1 % fixed)
I6_tracked
I6_fixed (94.3 % fixed)
I7_tracked
I7_fixed (0.0 % fixed)

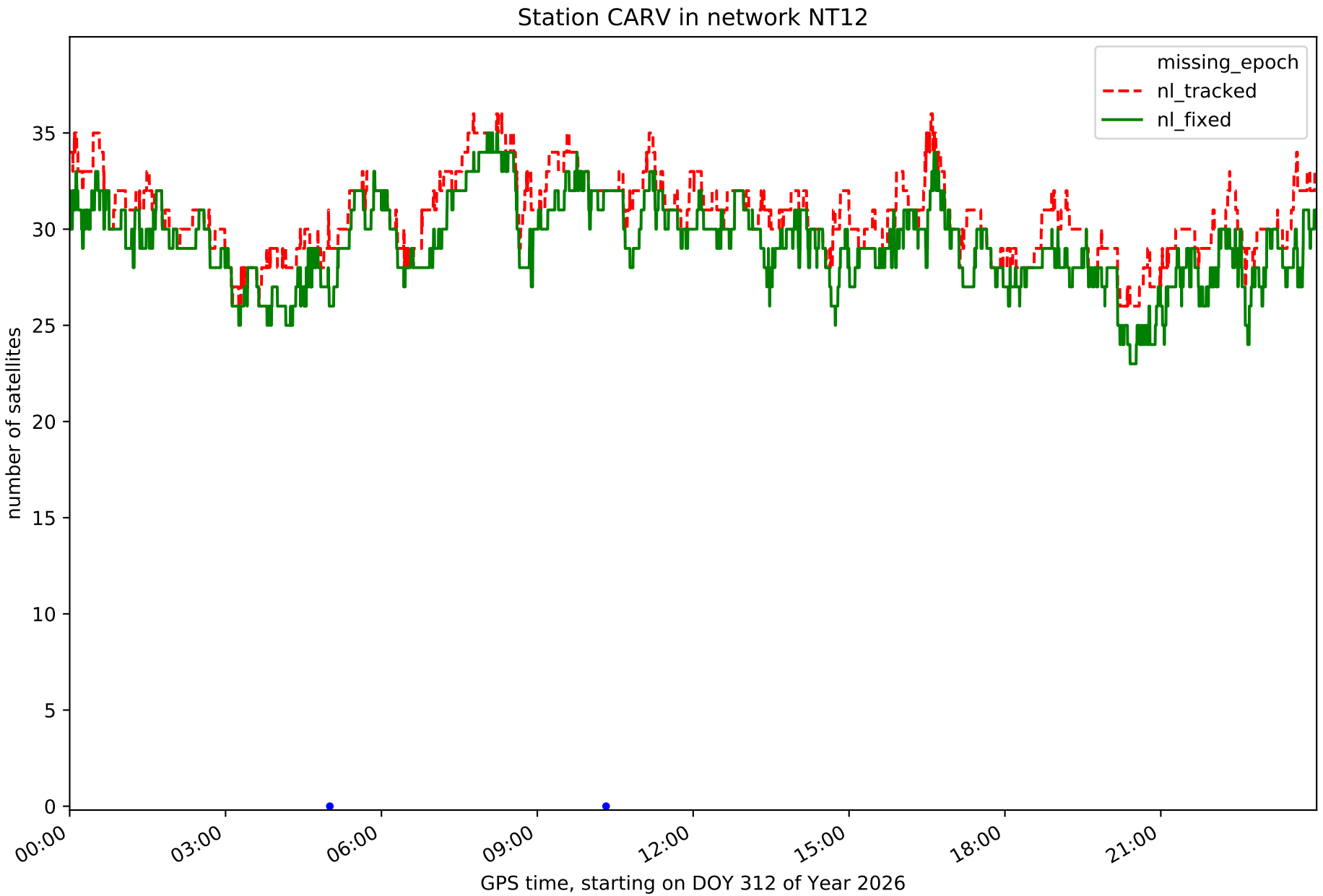

Network NT12 - only Galileo with threshold set to 0.3
l1_tracked
l1_fixed (96.4 % fixed)
l5_tracked
l5_fixed (96.5 % fixed)
l7_tracked
l7_fixed (96.5 % fixed)
number of satellites
0
2
4
6
8
10
12
14
16
18
20
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

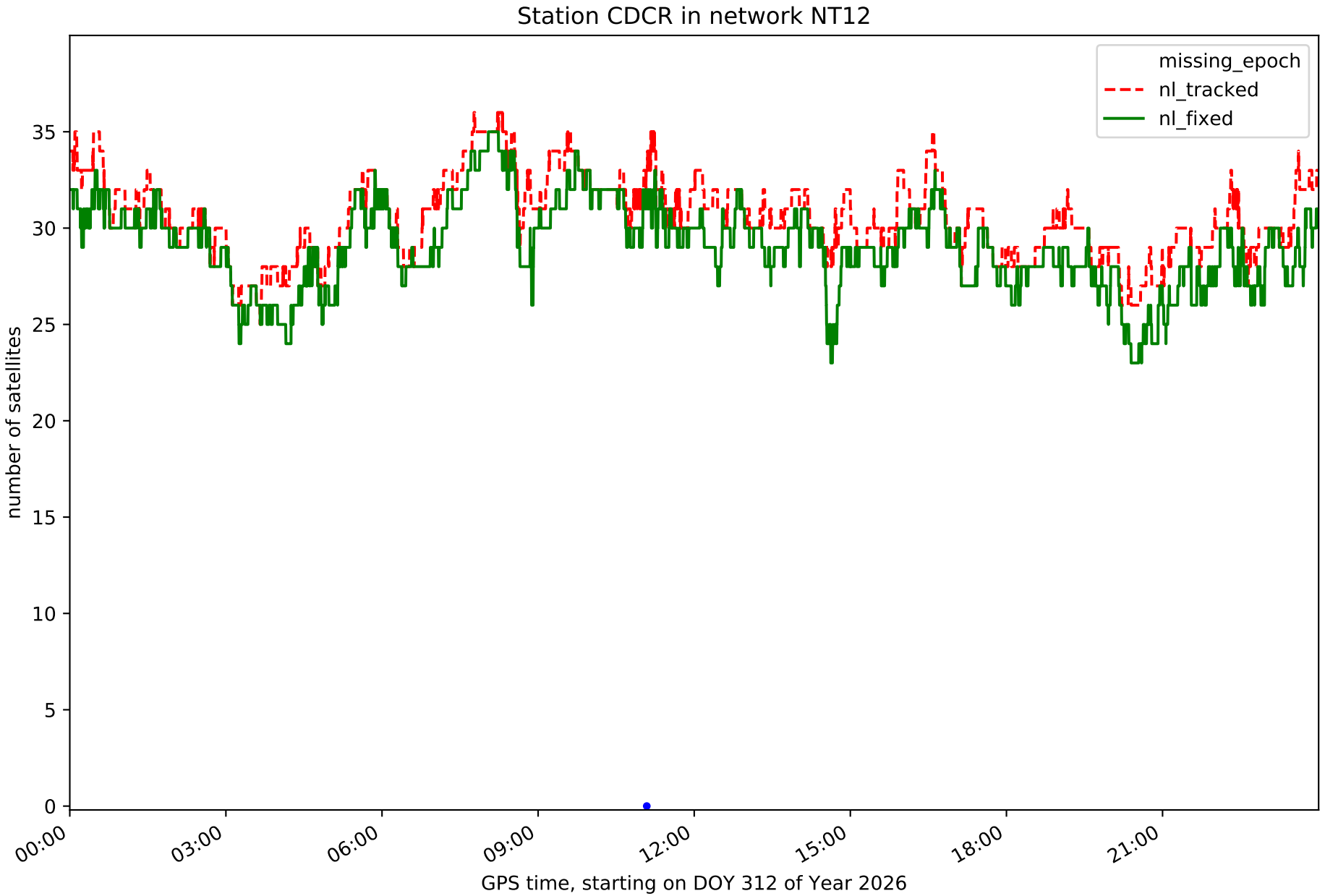

Station ALME in network NT12
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

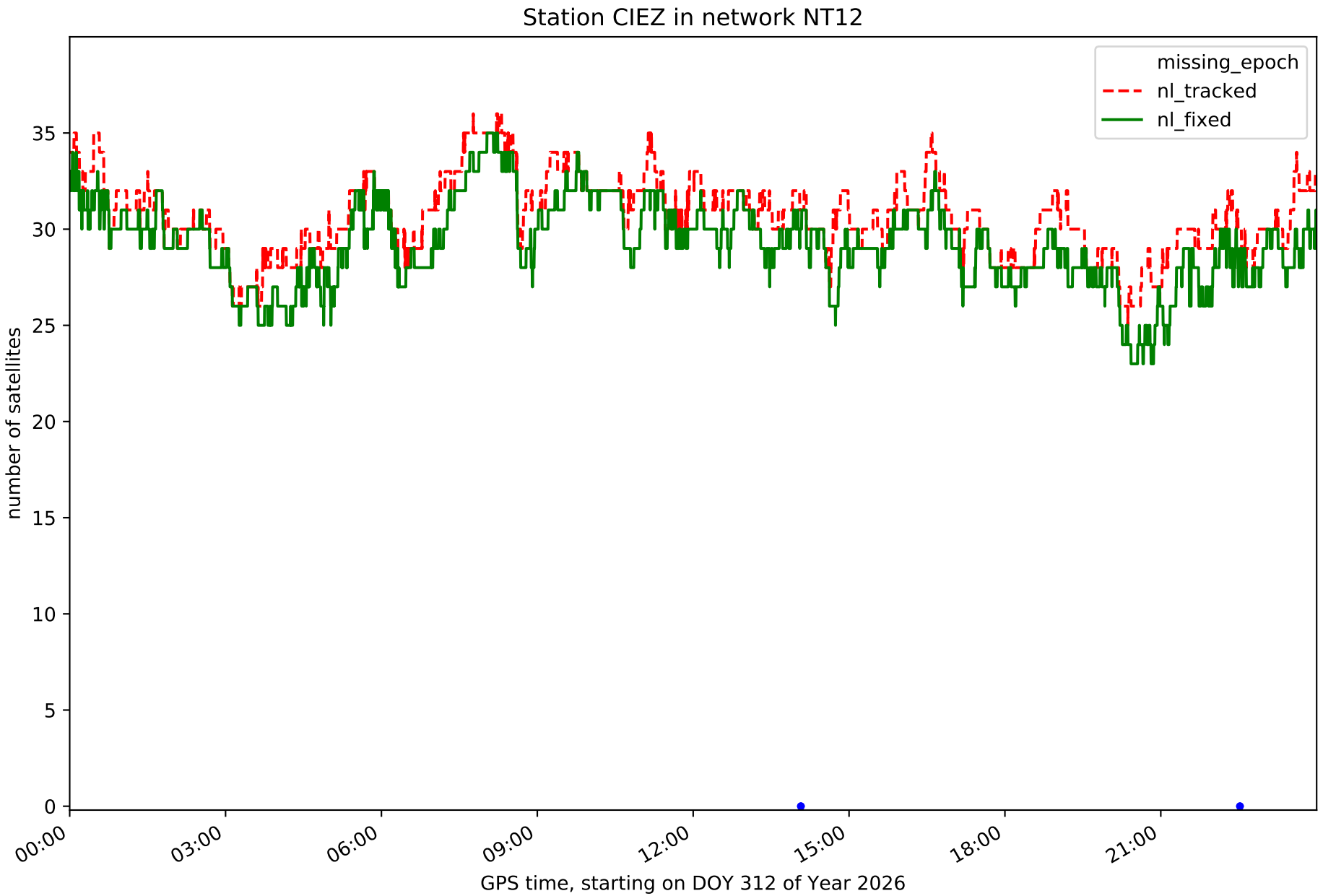

Station CAAL in network NT12
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

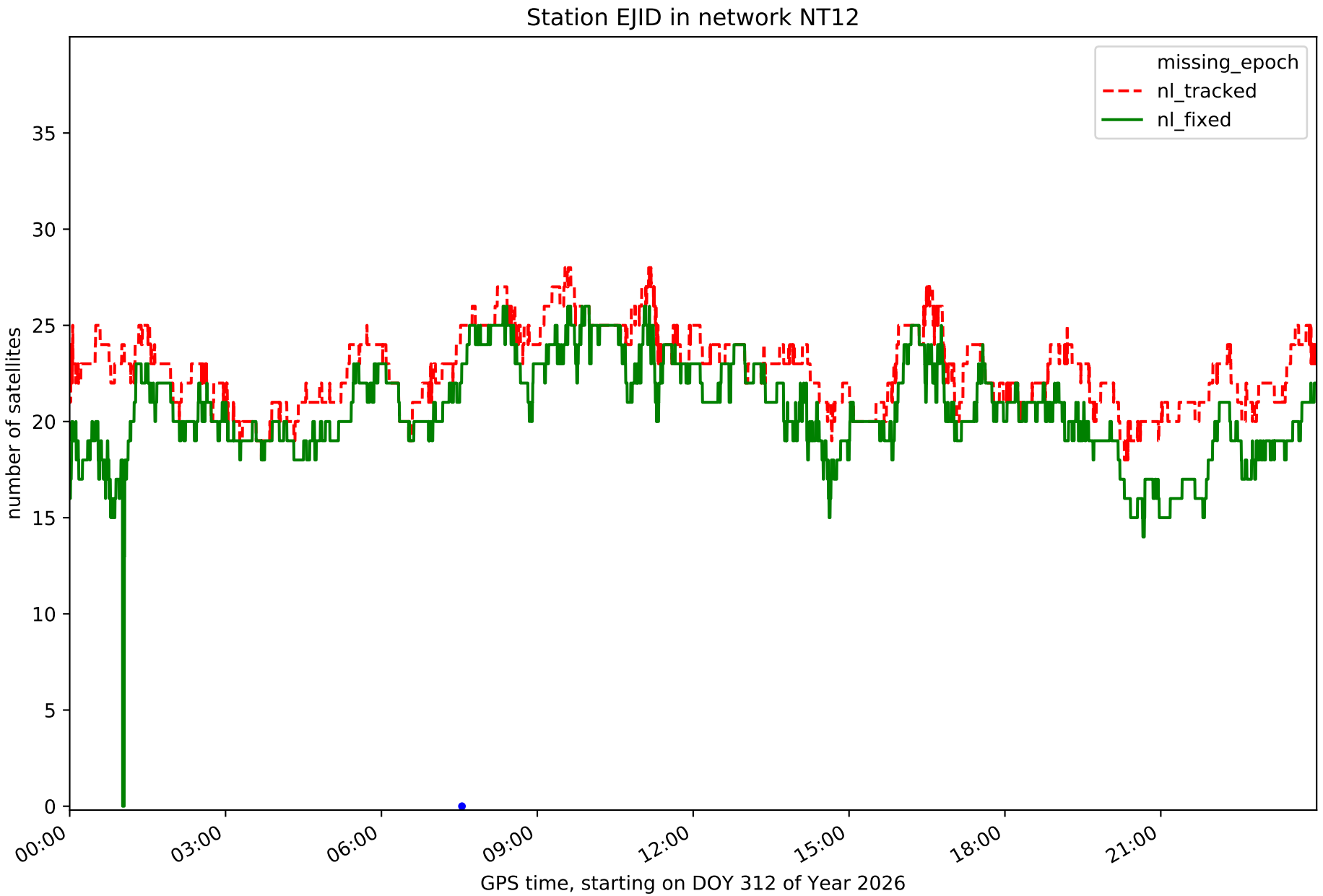

Station CABP in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

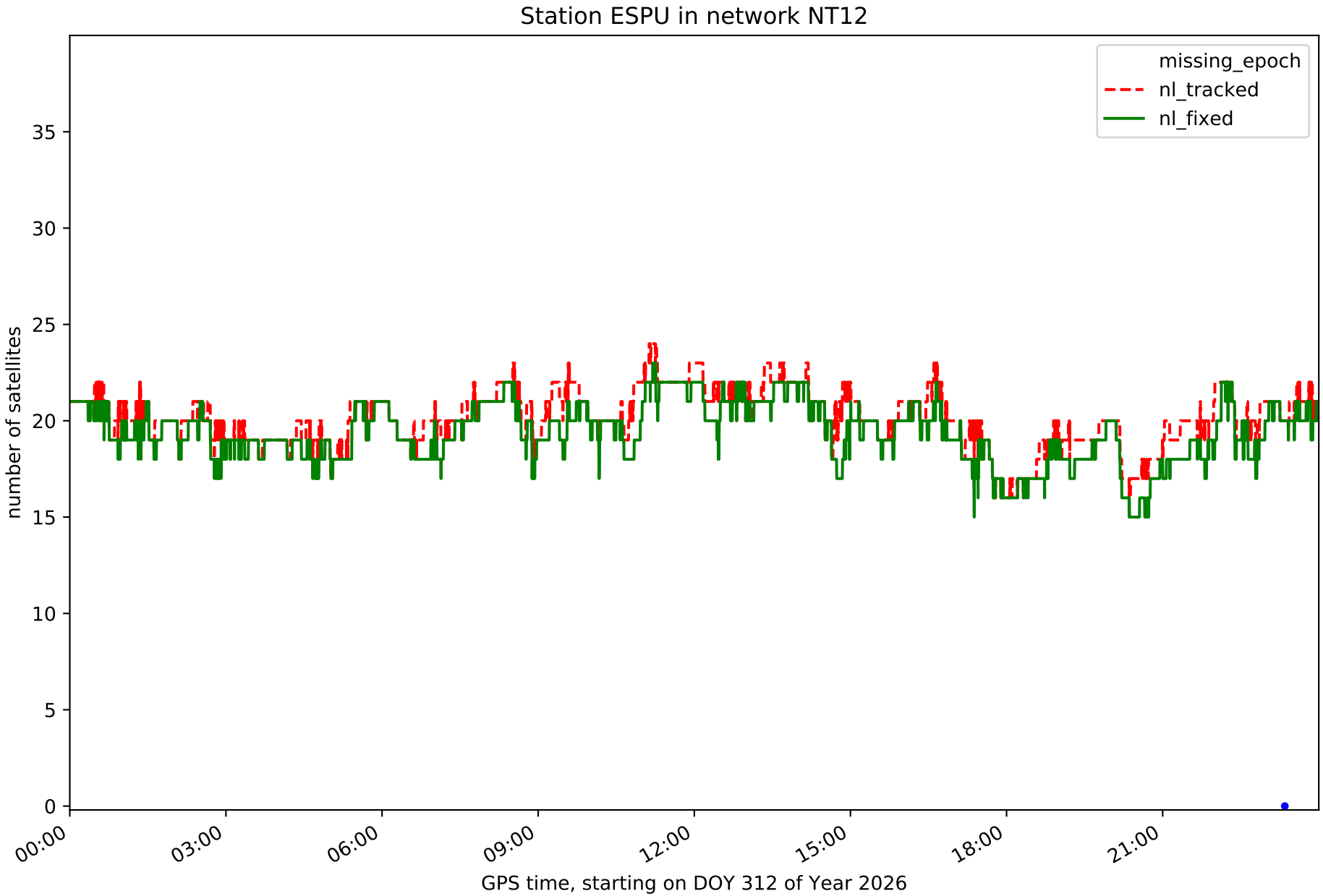

Station CARG in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

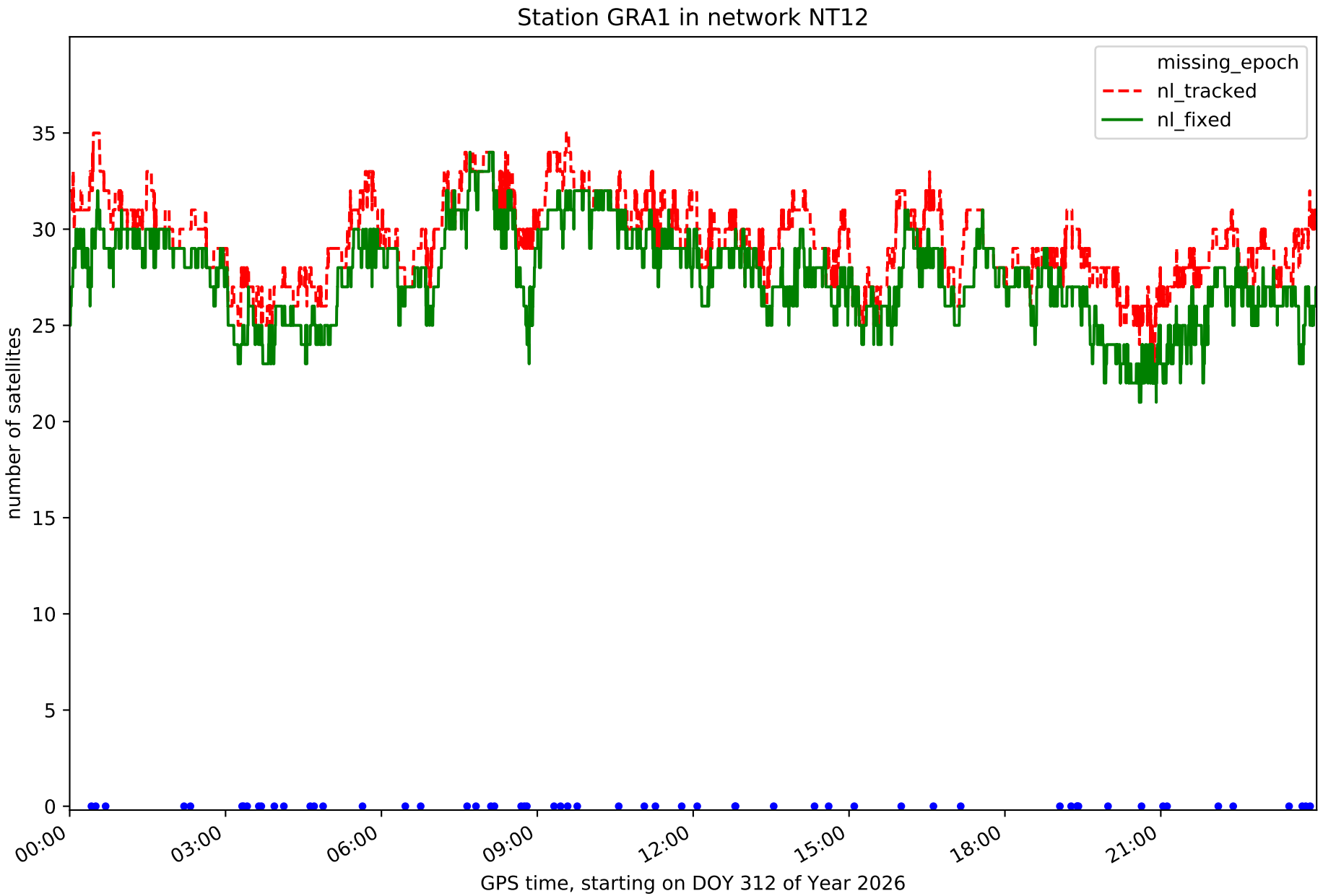

Station CARV in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

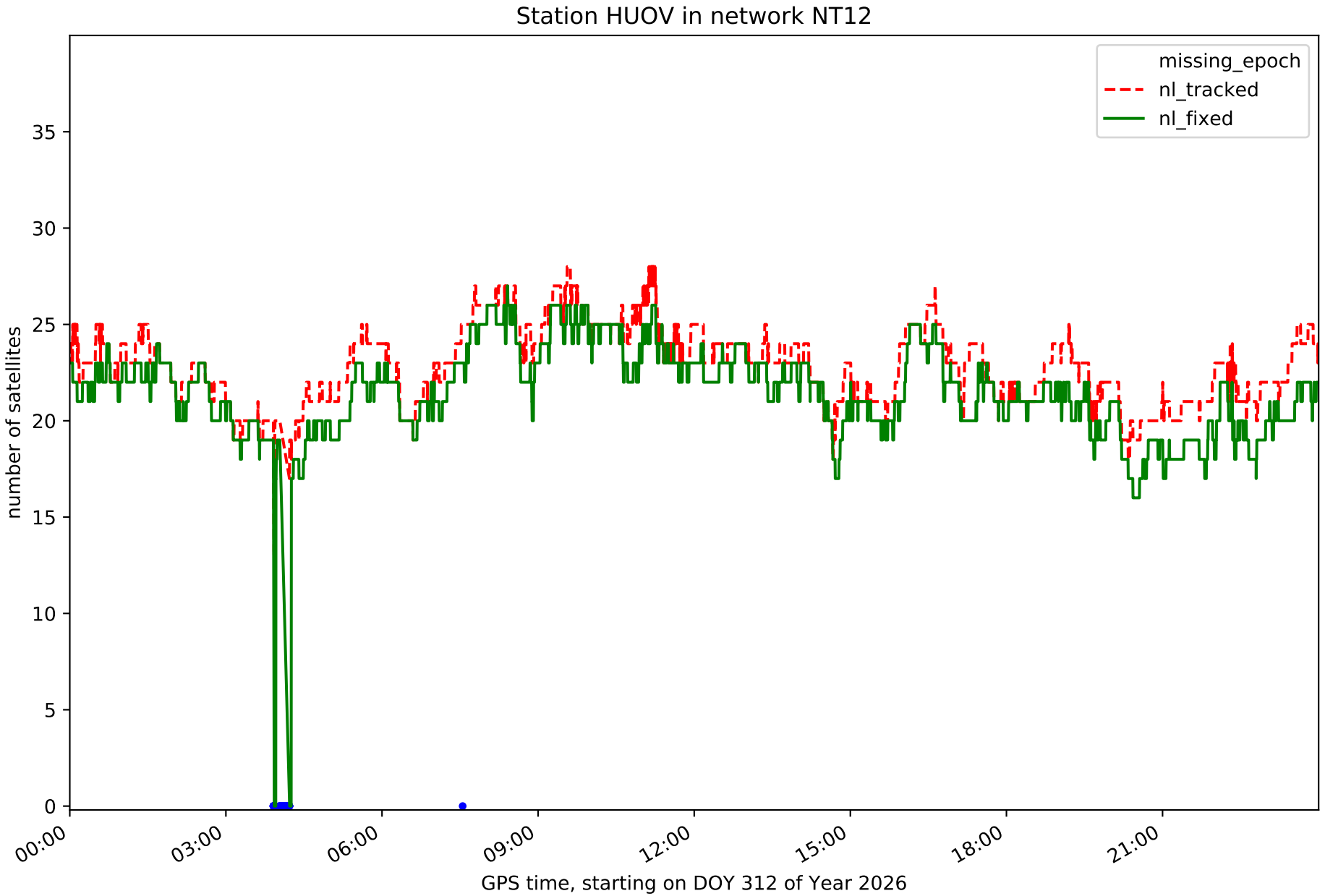

Station CDCR in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

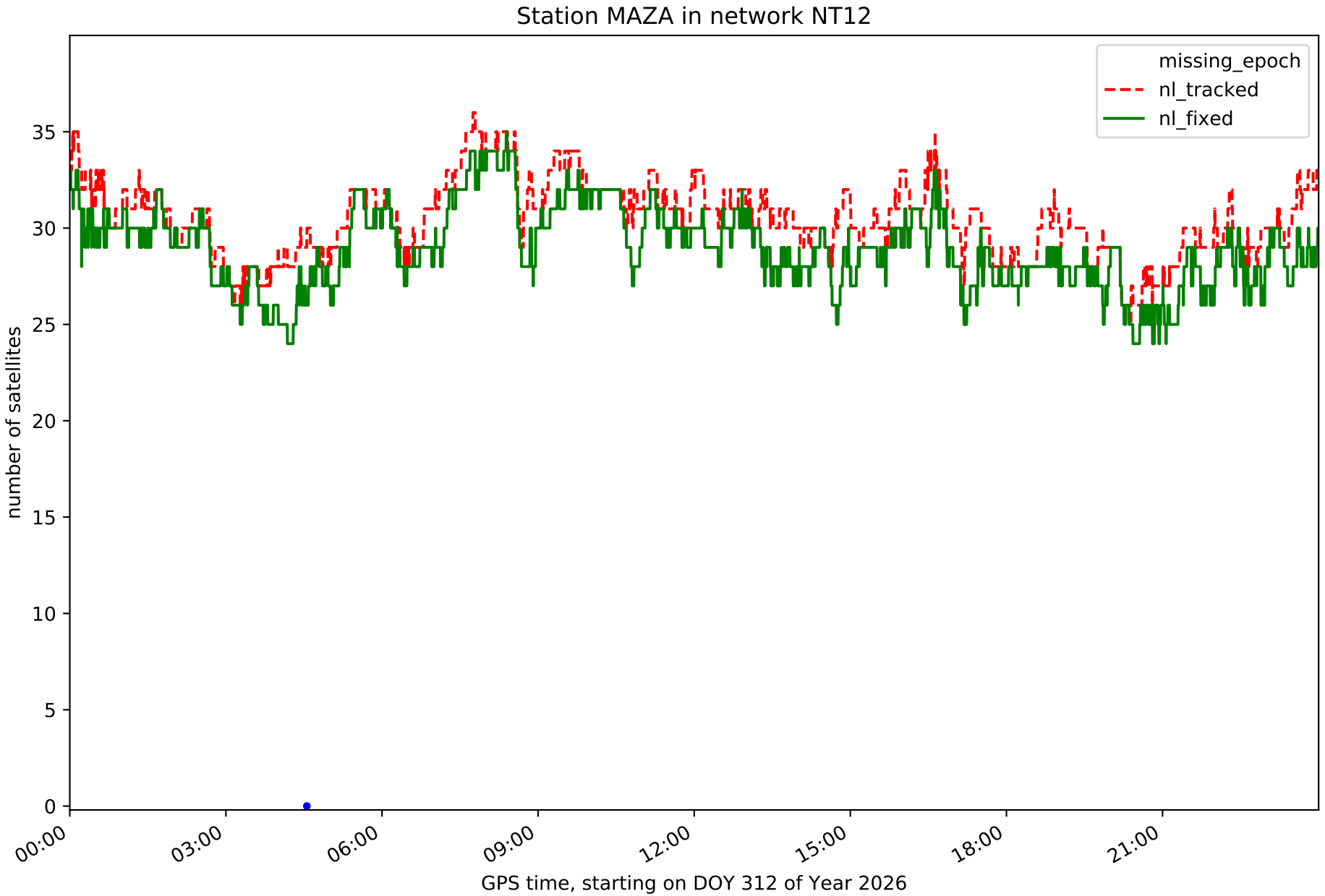

Station CIEZ in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

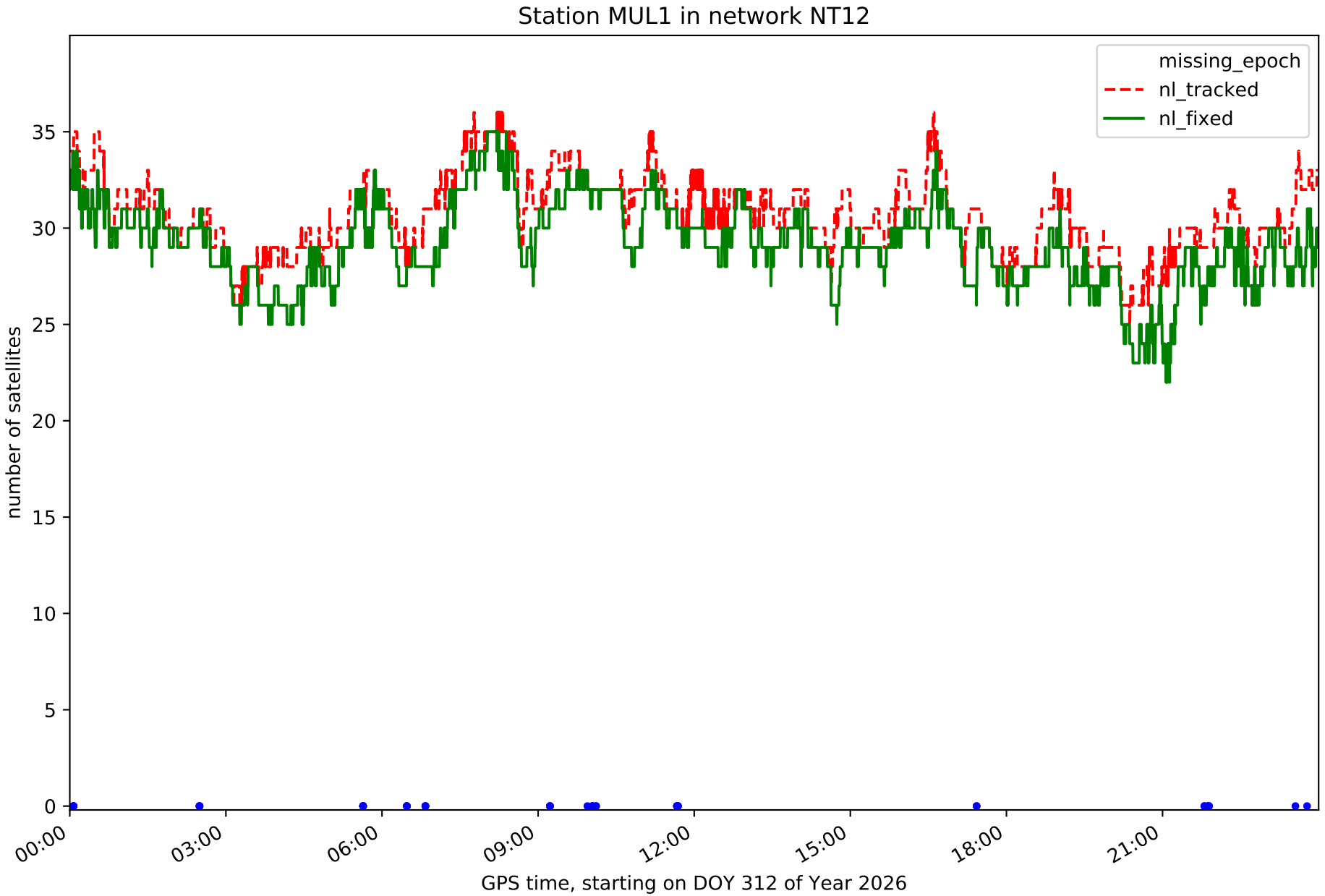

Station EJID in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

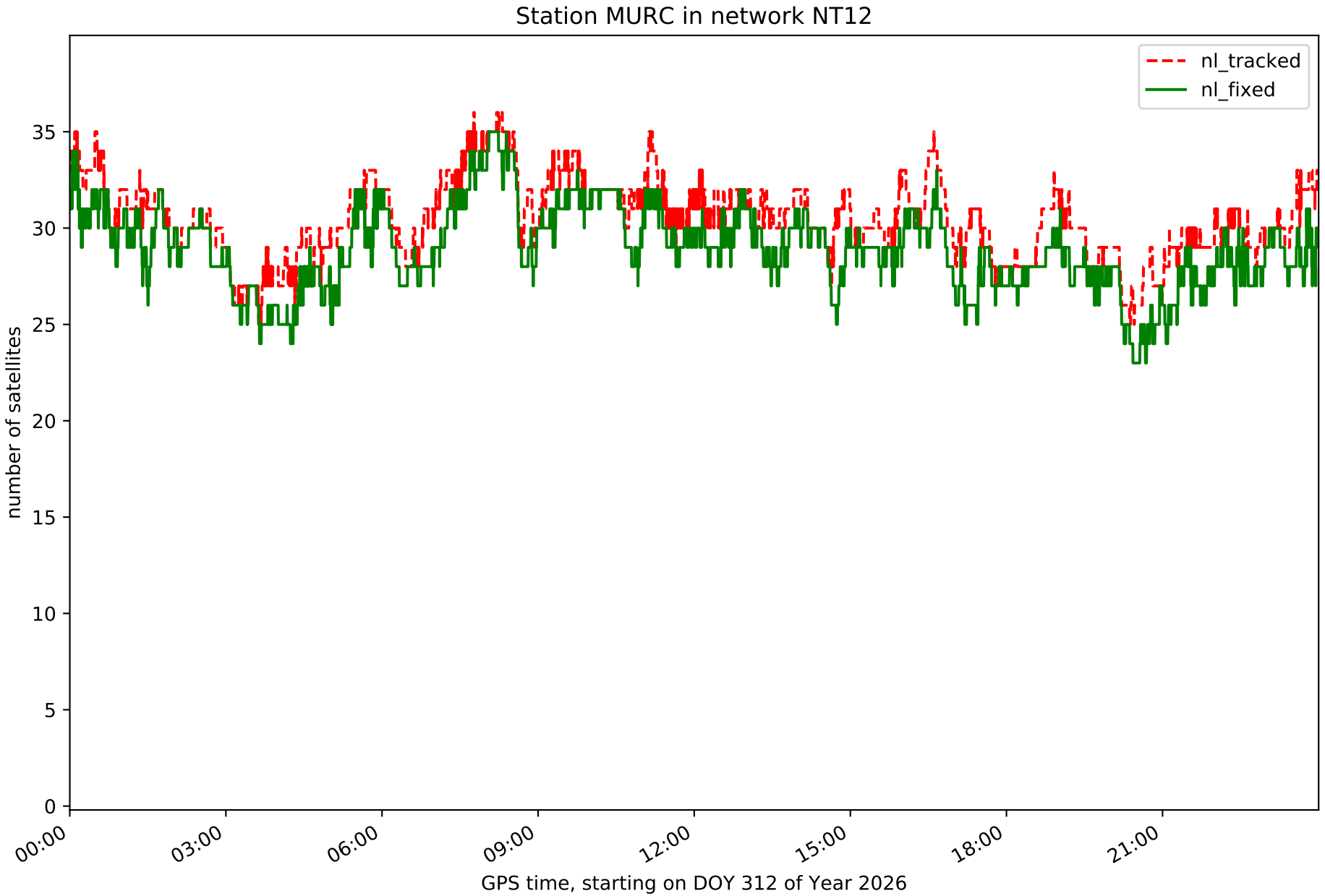

Station ESPU in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

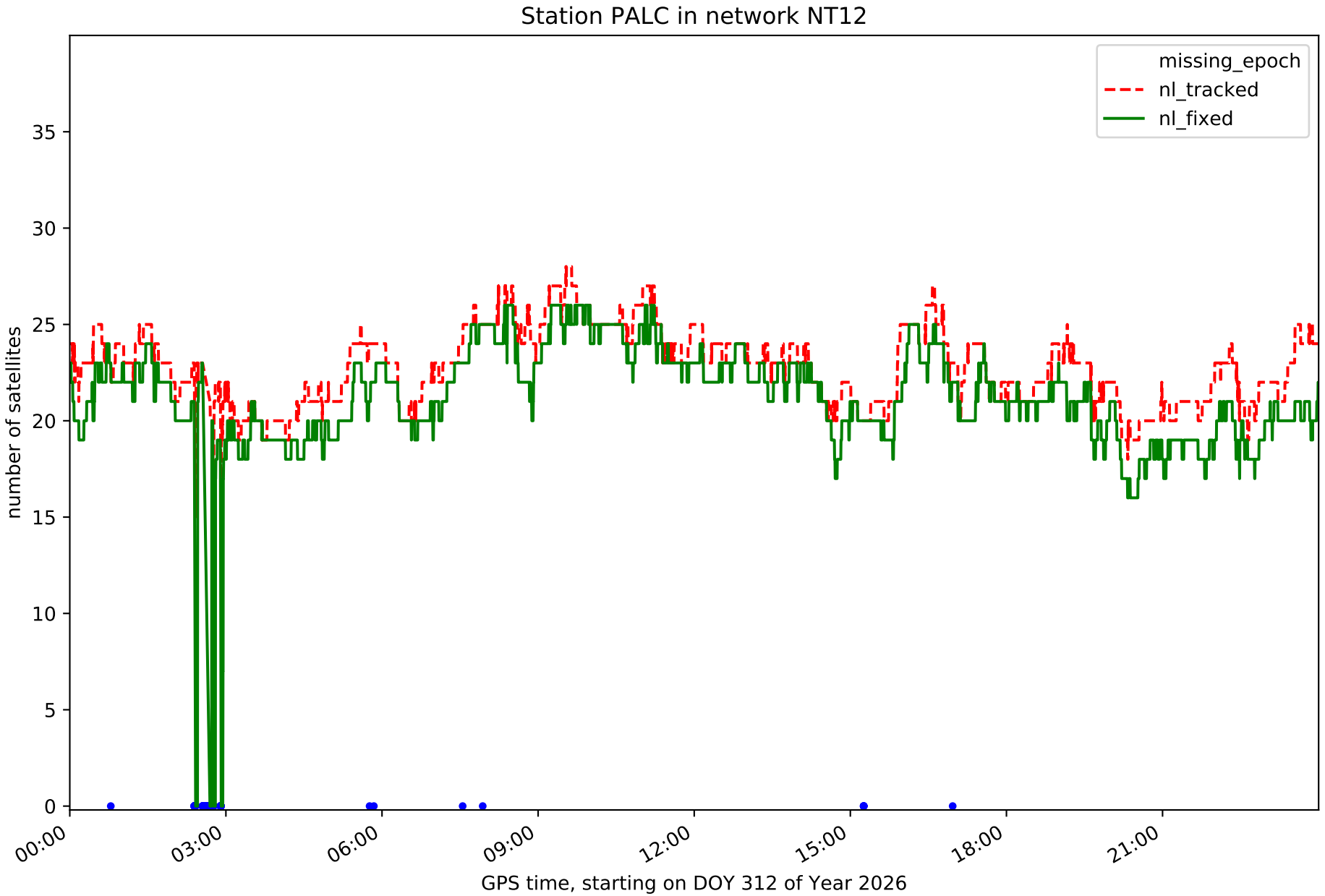

Station GRA1 in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

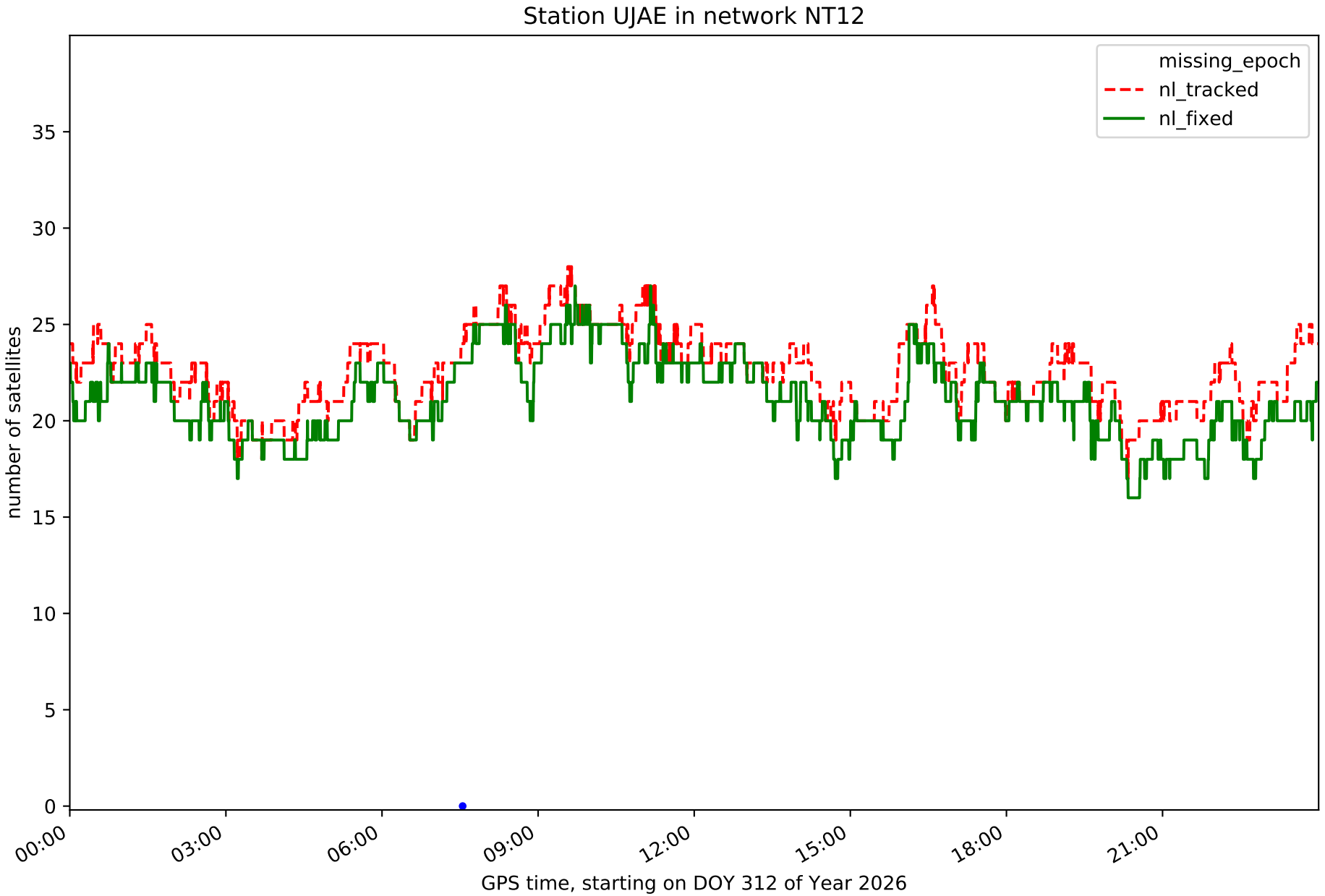

Station HUOV in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

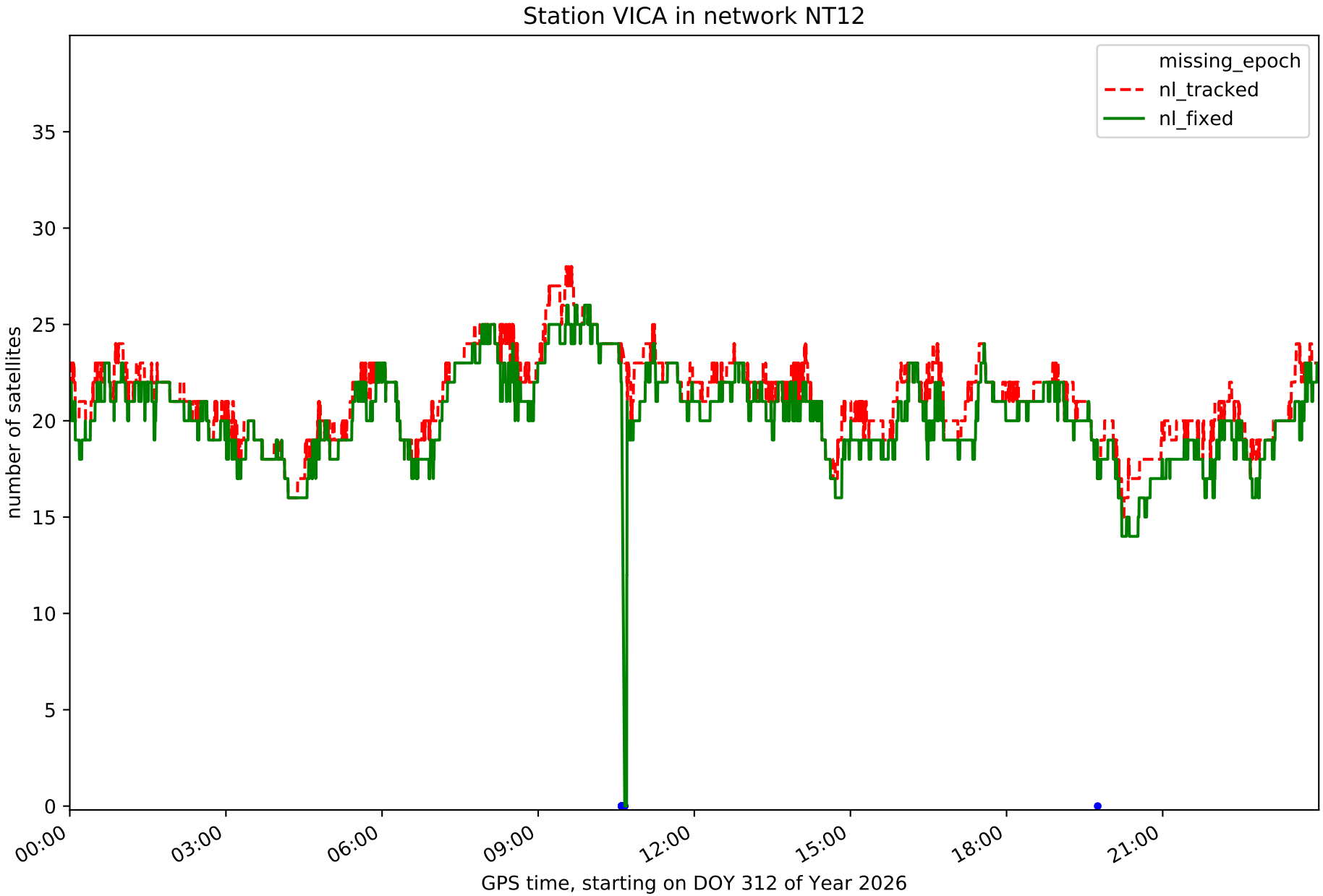

Station MAZA in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

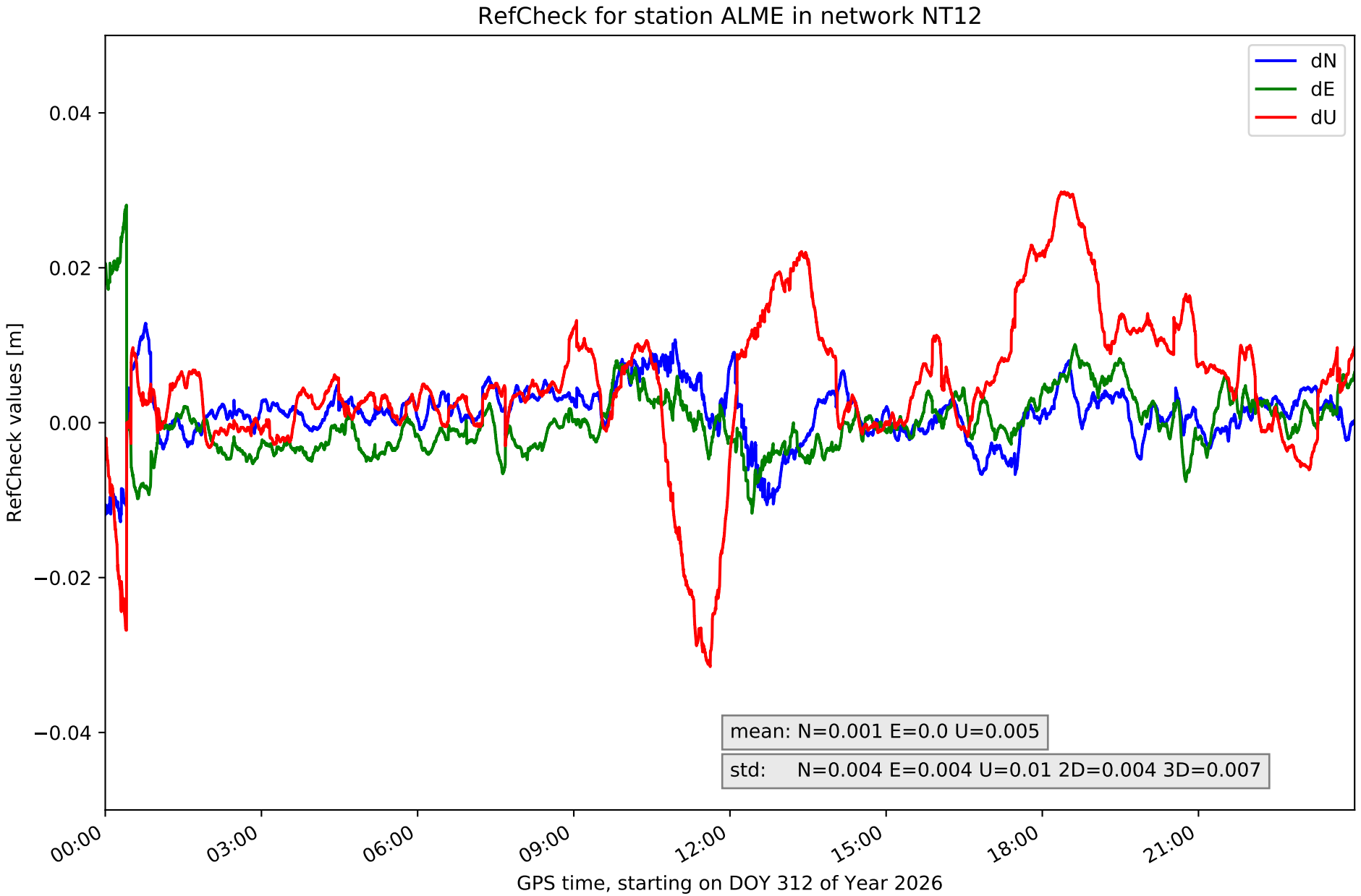

Station MUL1 in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

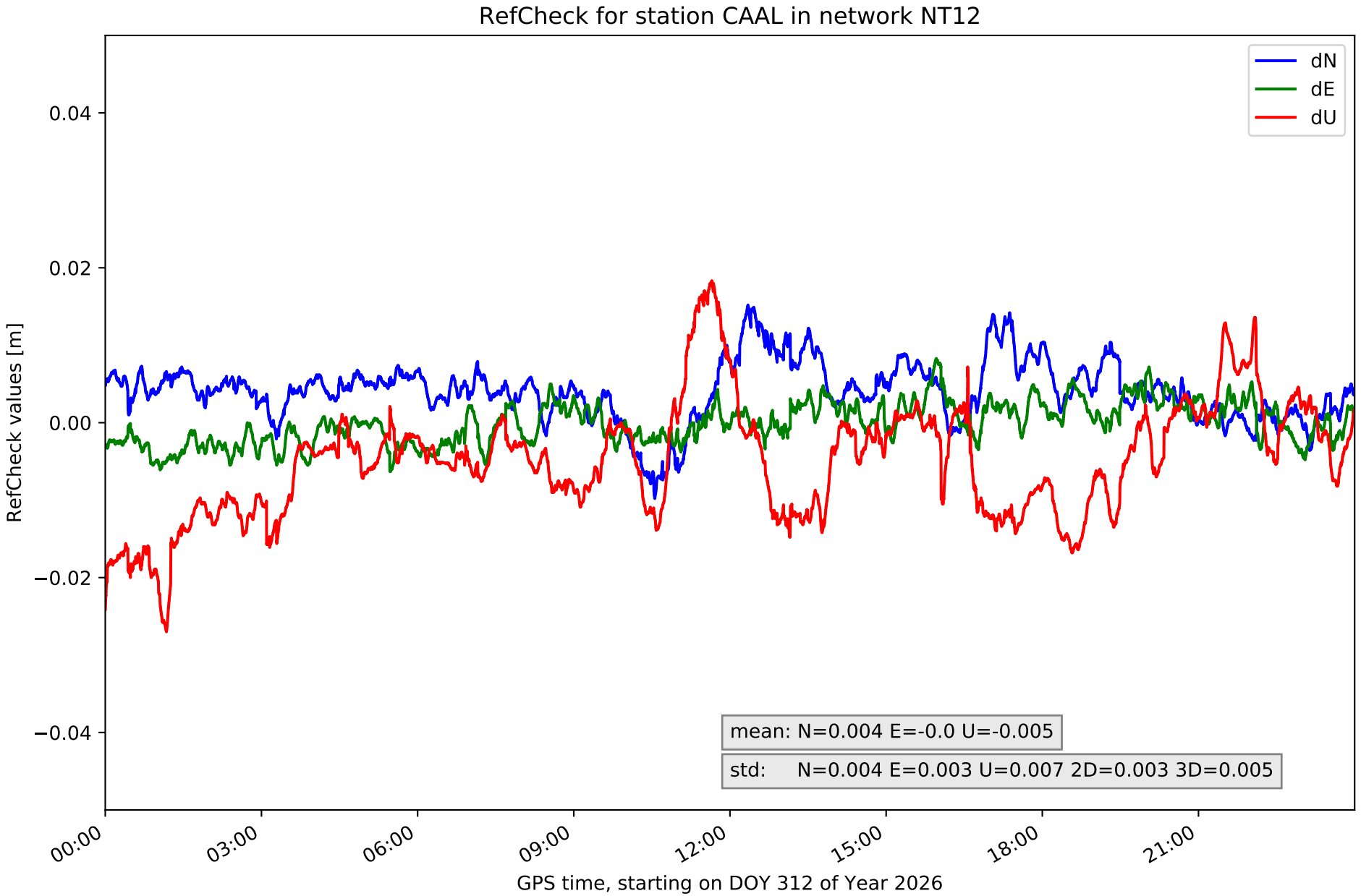

Station MURC in network NT12
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

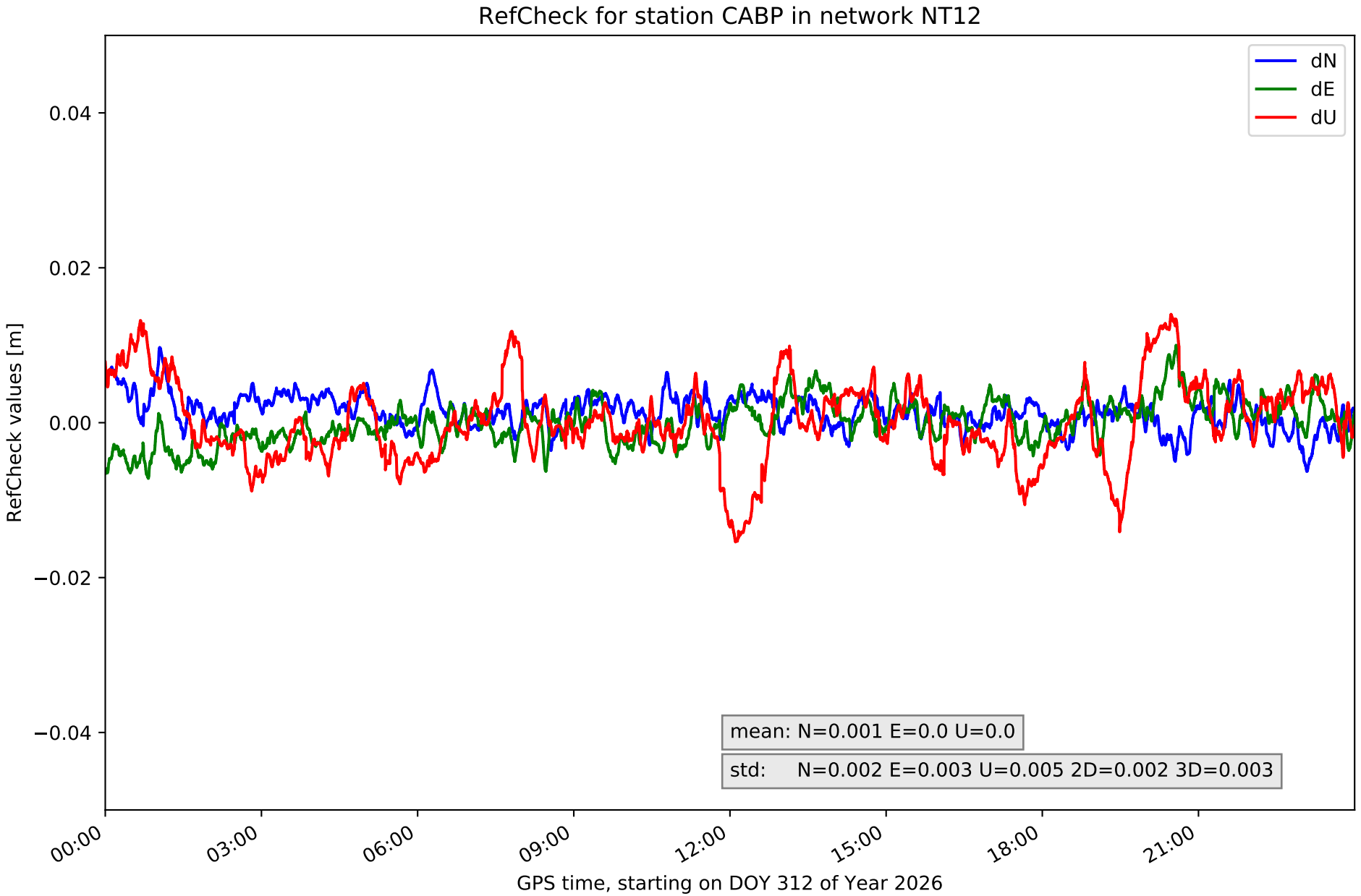

Station PALC in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

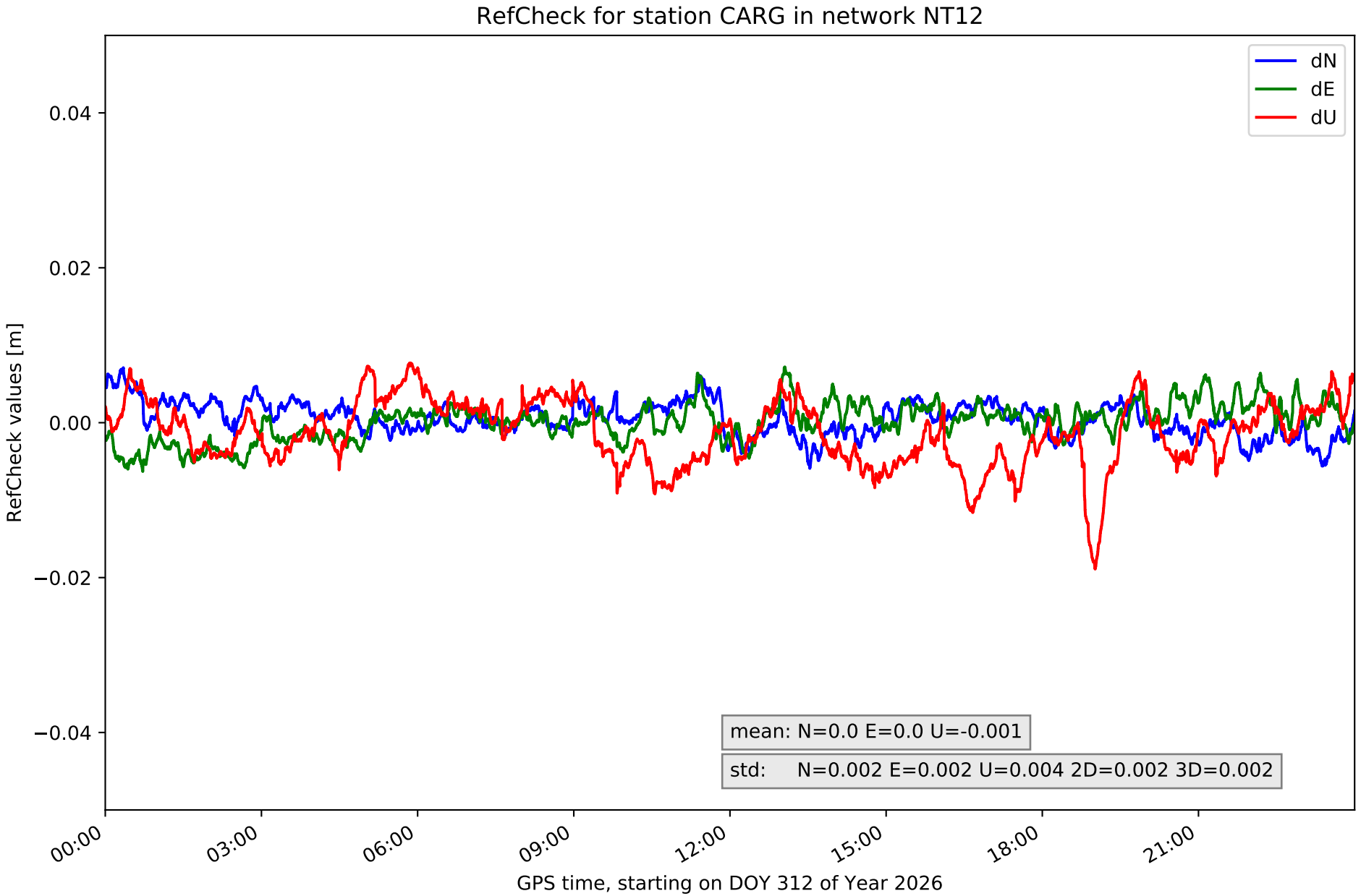

Station UJAE in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

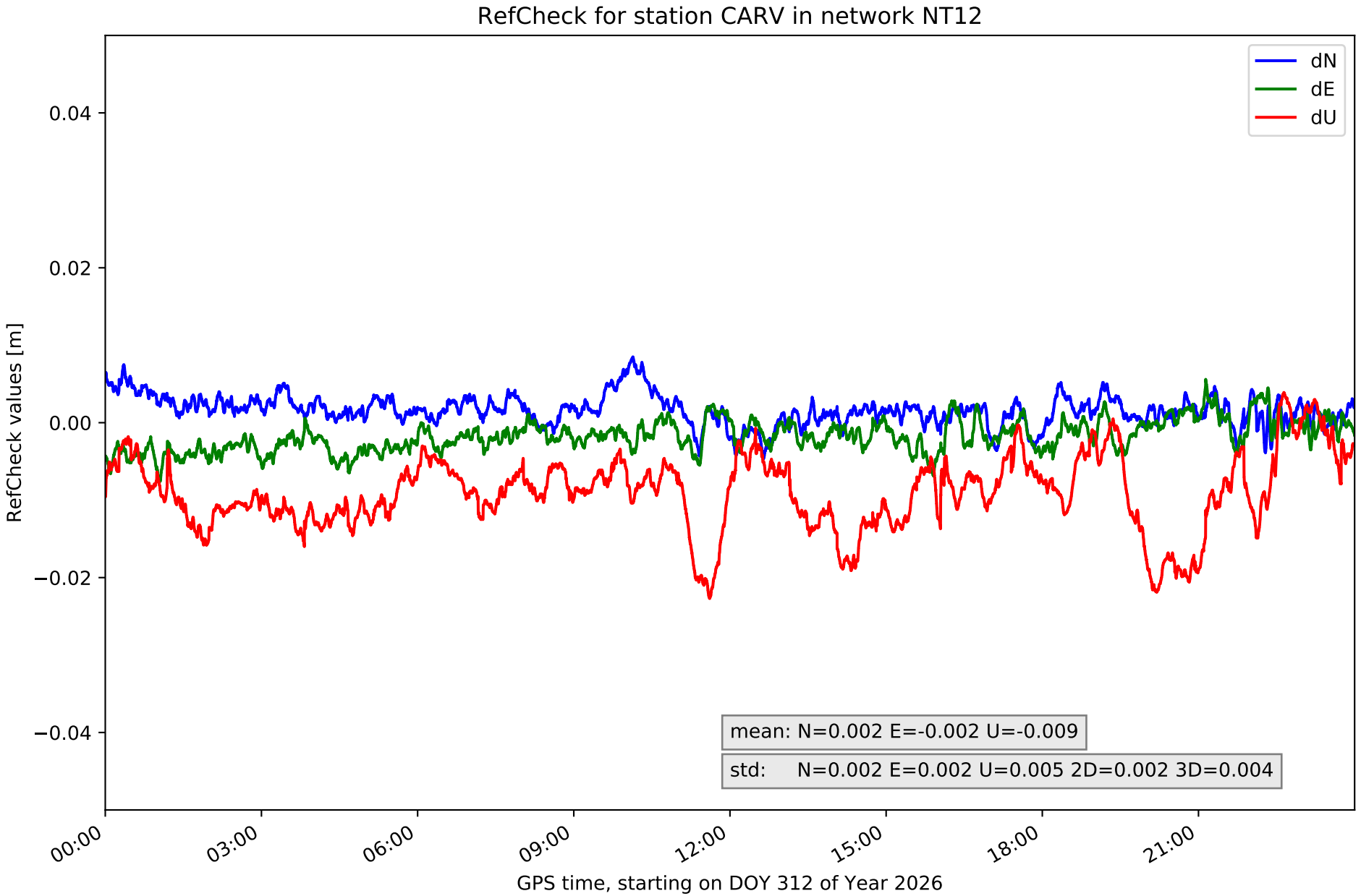

Station VICA in network NT12
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

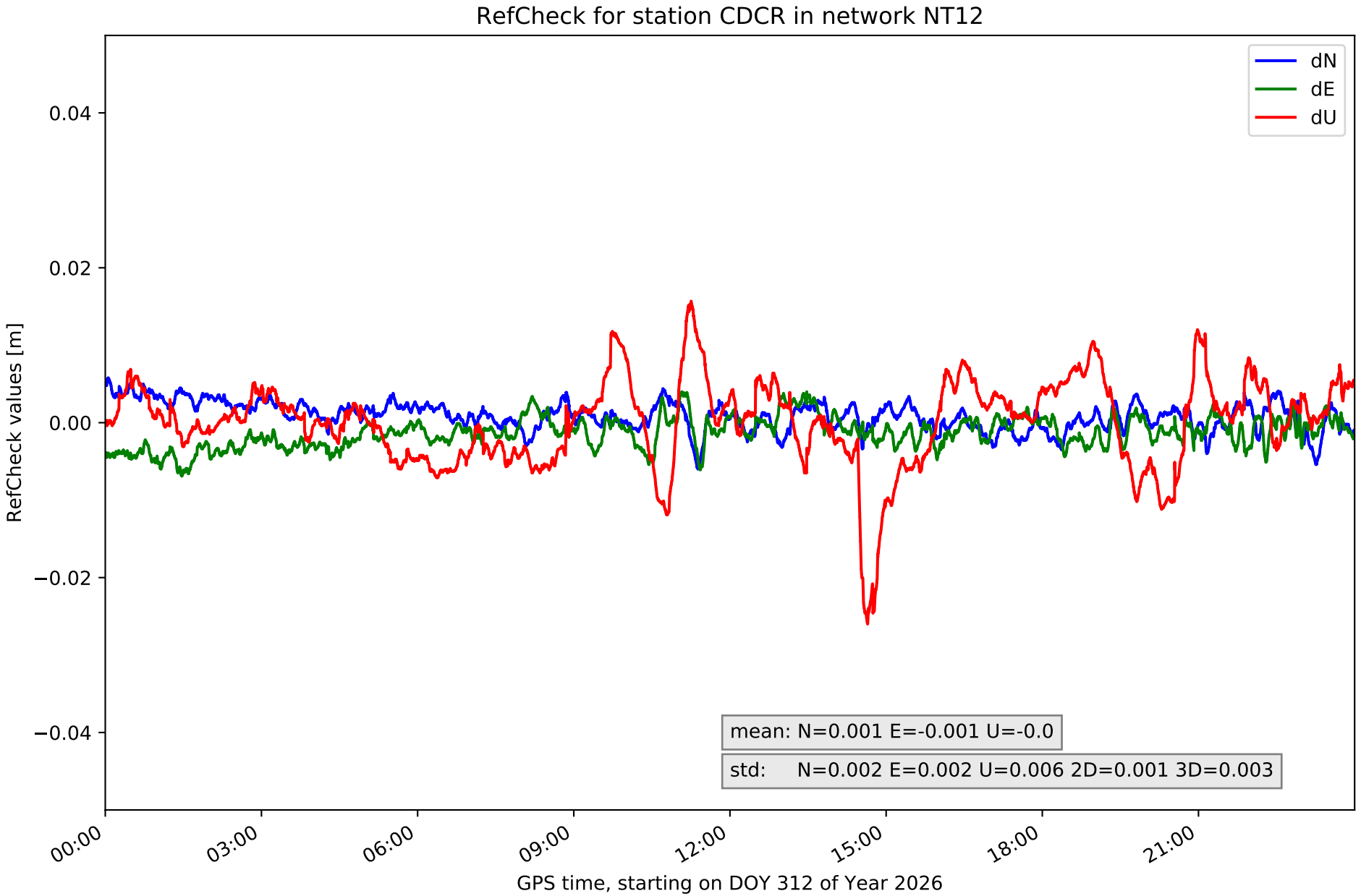

RefCheck for station ALME in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=0.0 U=0.005
std: N=0.004 E=0.004 U=0.01 2D=0.004 3D=0.007
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

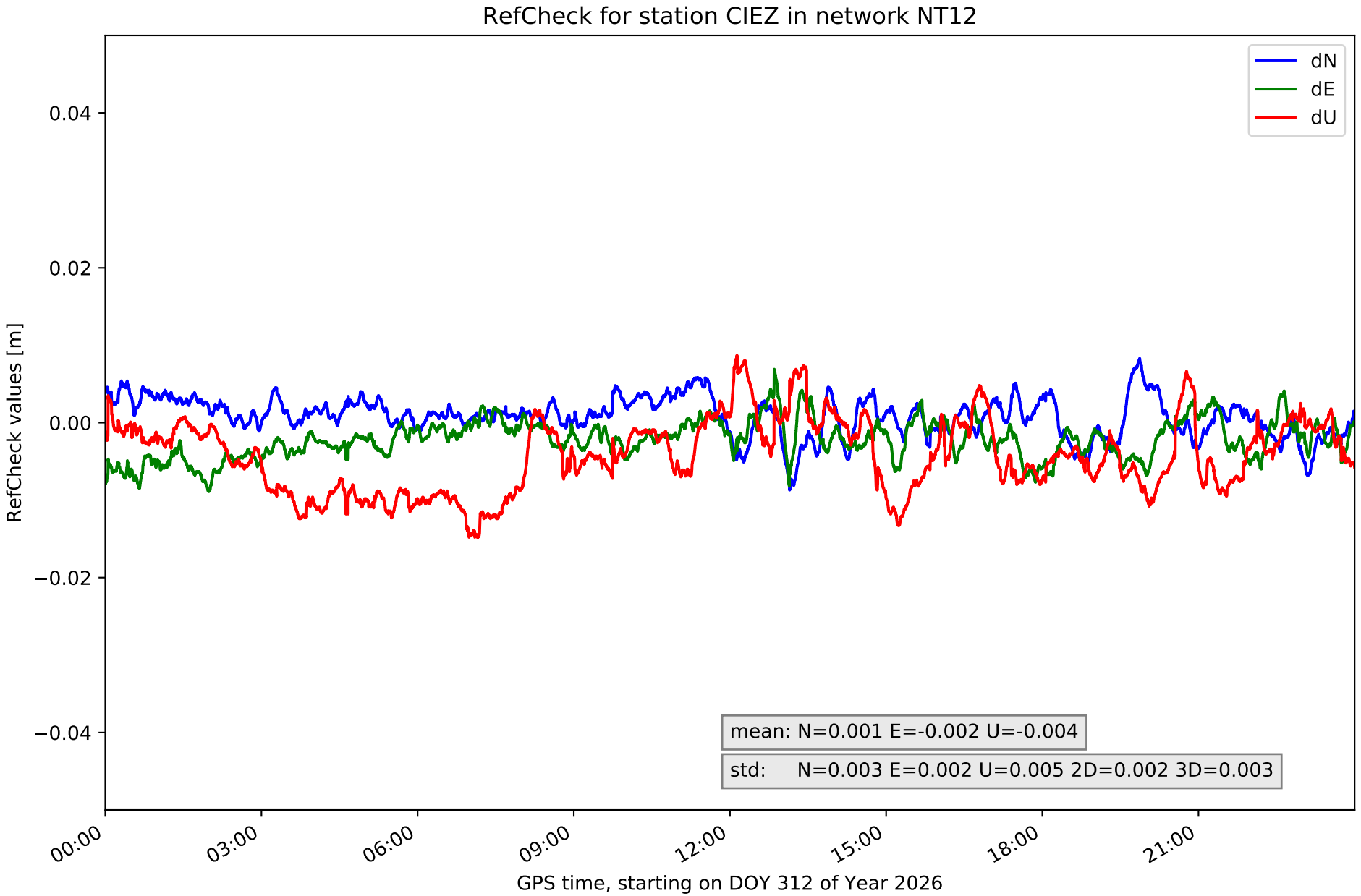

RefCheck for station CAAL in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.004 E=-0.0 U=-0.005
std: N=0.004 E=0.003 U=0.007 2D=0.003 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

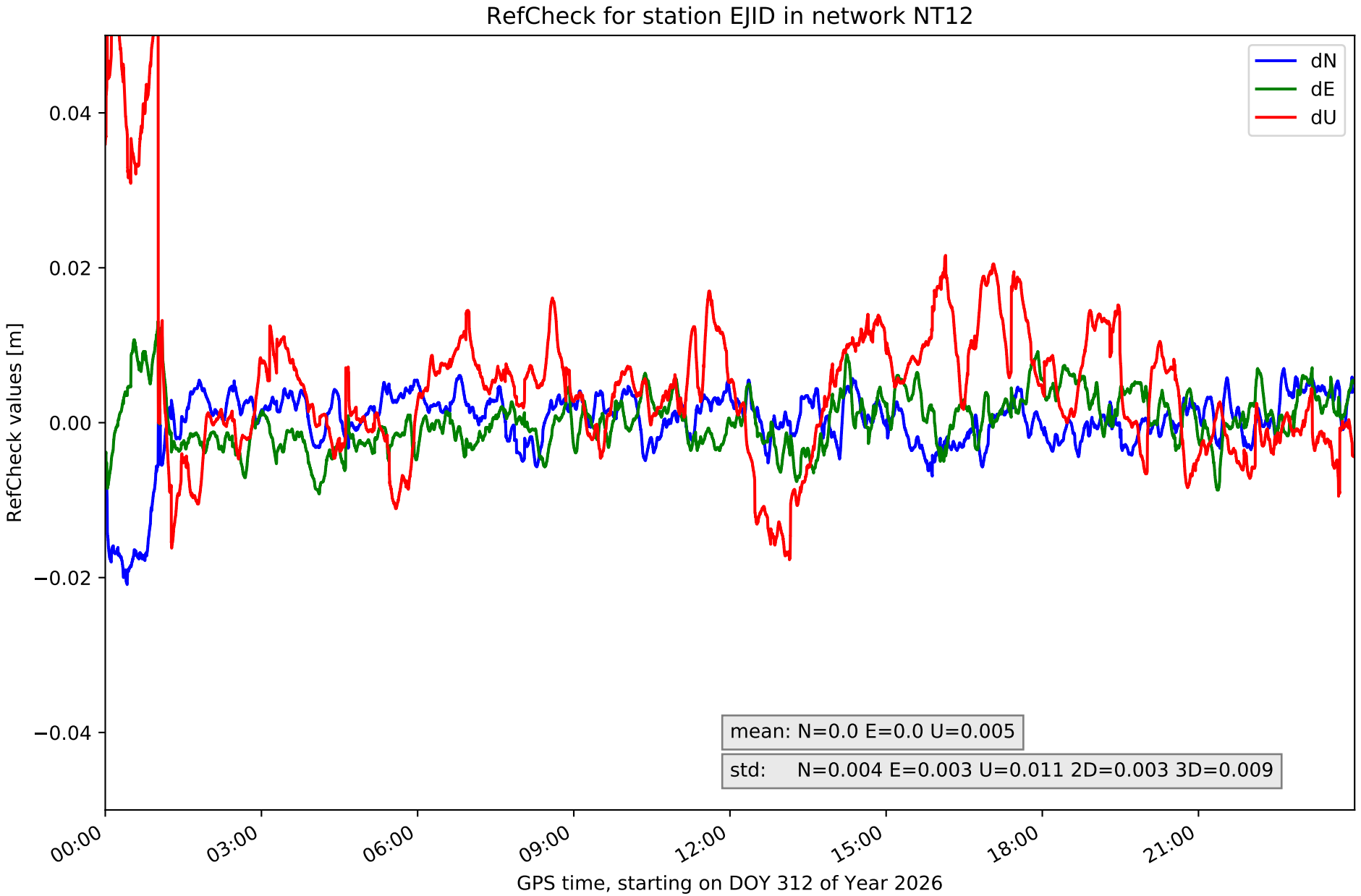

RefCheck for station CABP in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=0.0 U=0.0
std: N=0.002 E=0.003 U=0.005 2D=0.002 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

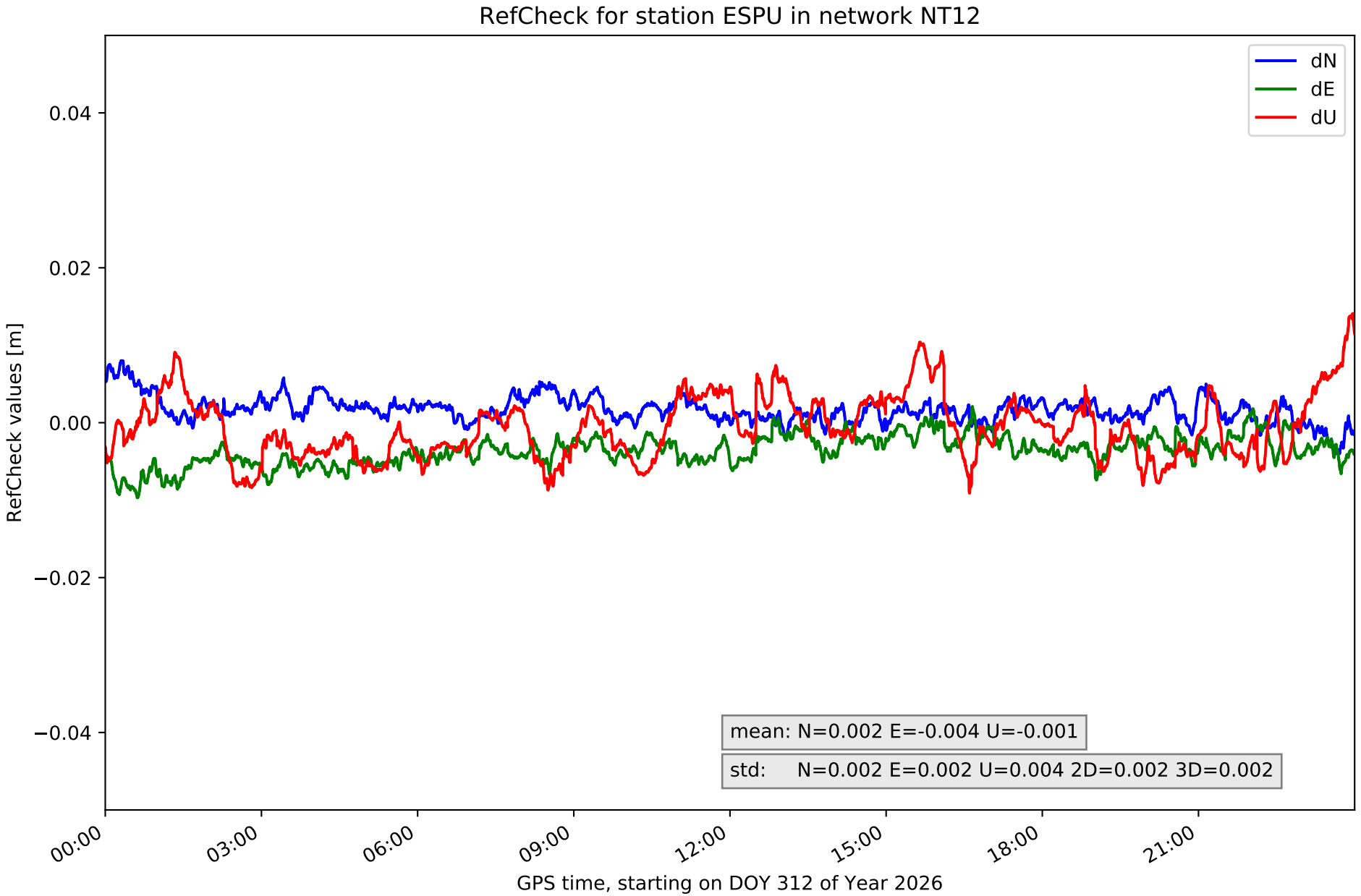

RefCheck for station CARG in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.0 E=0.0 U=-0.001
std: N=0.002 E=0.002 U=0.004 2D=0.002 3D=0.002
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

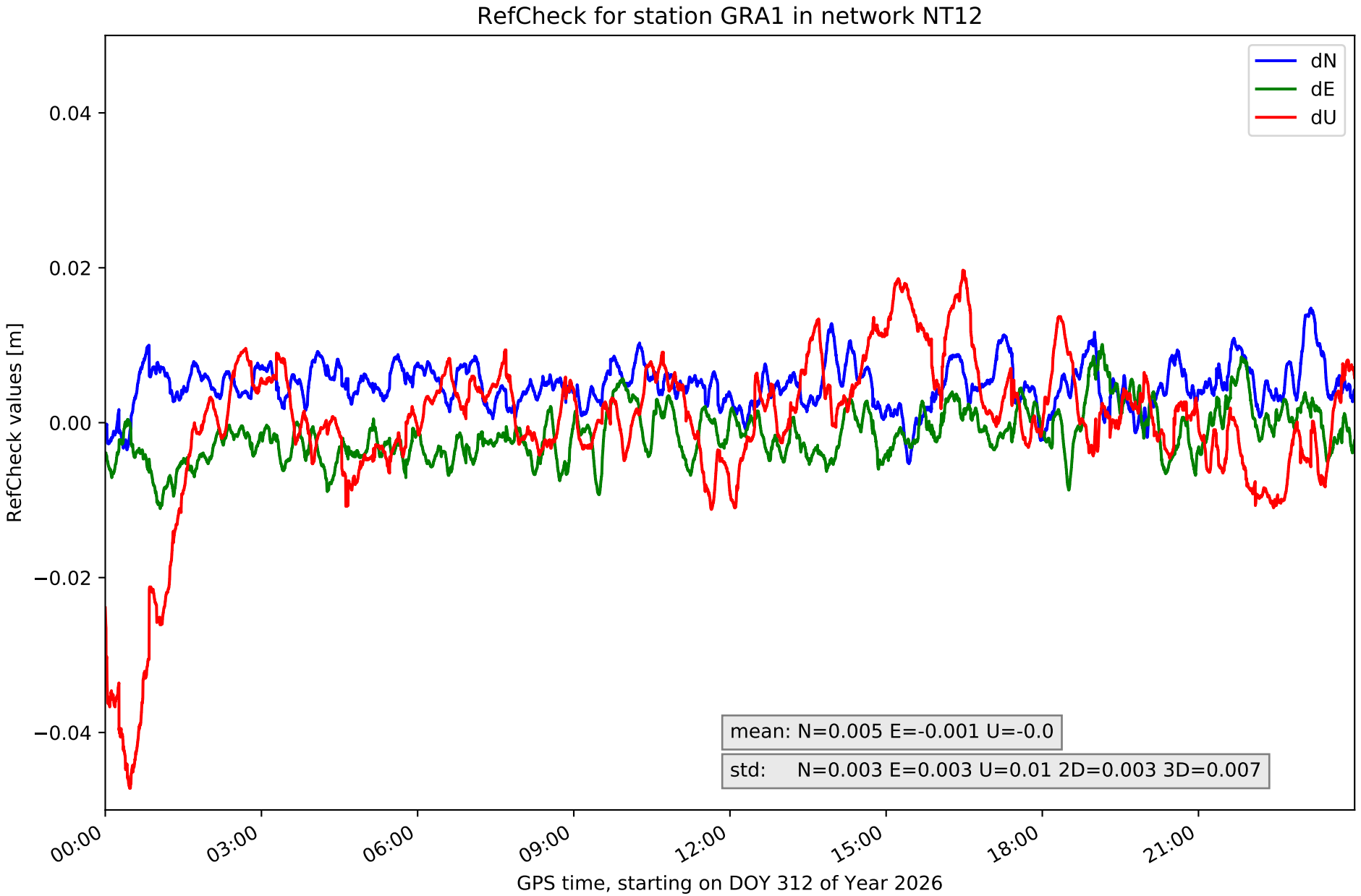

RefCheck for station CARV in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.002 E=-0.002 U=-0.009
std: N=0.002 E=0.002 U=0.005 2D=0.002 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

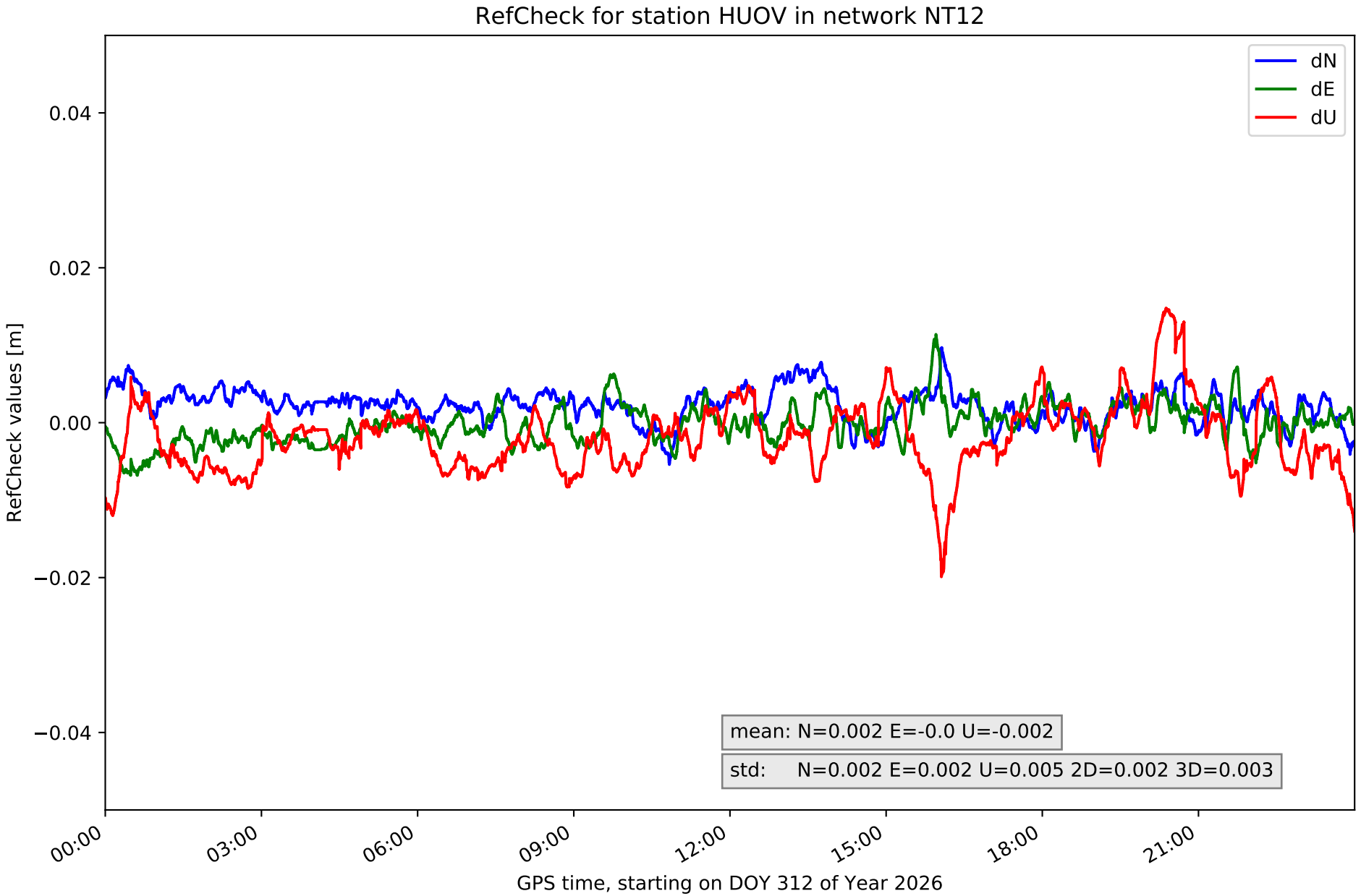

RefCheck for station CDCR in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=-0.001 U=-0.0
std: N=0.002 E=0.002 U=0.006 2D=0.001 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

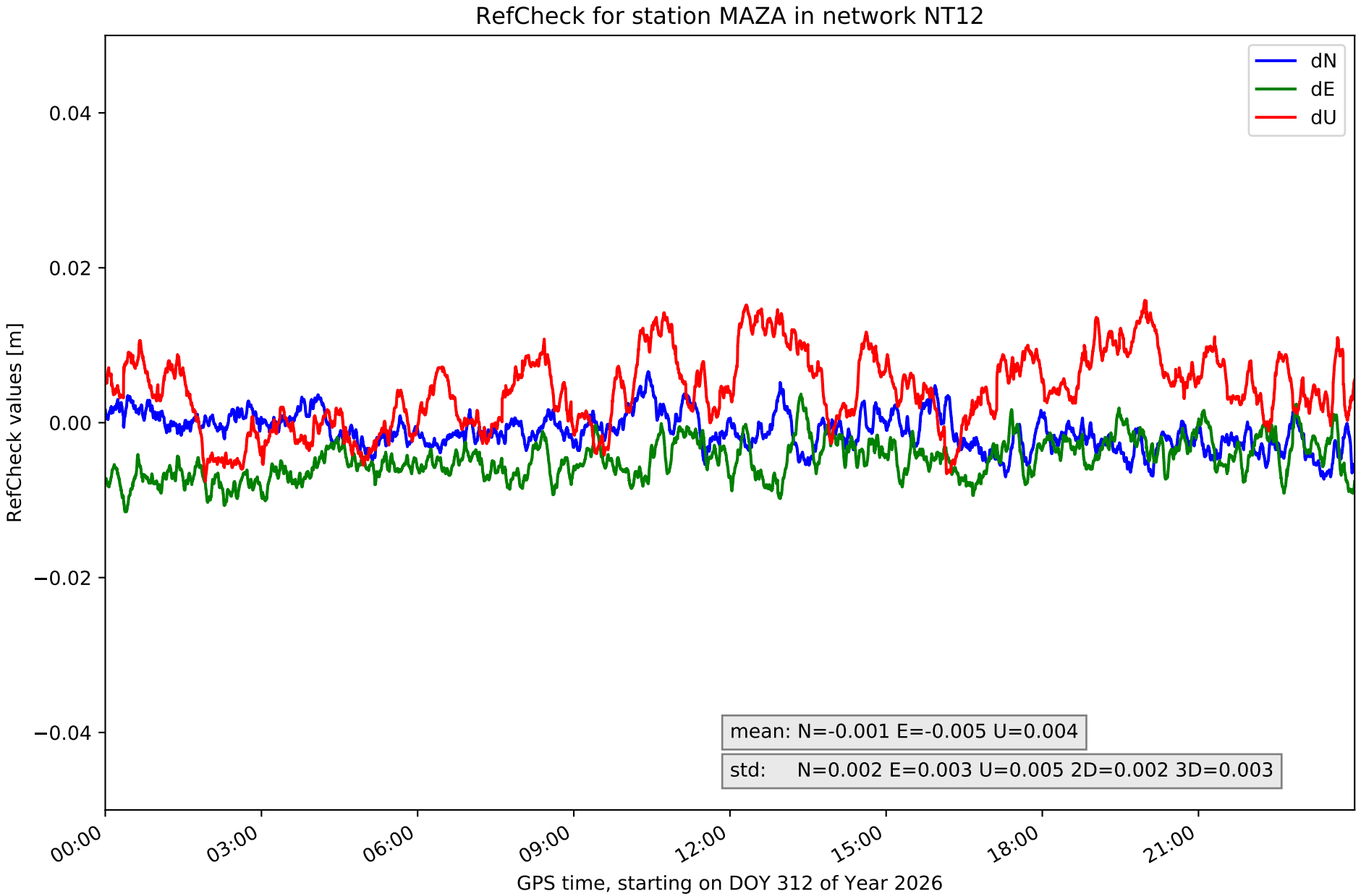

RefCheck for station CIEZ in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=-0.002 U=-0.004
std: N=0.003 E=0.002 U=0.005 2D=0.002 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

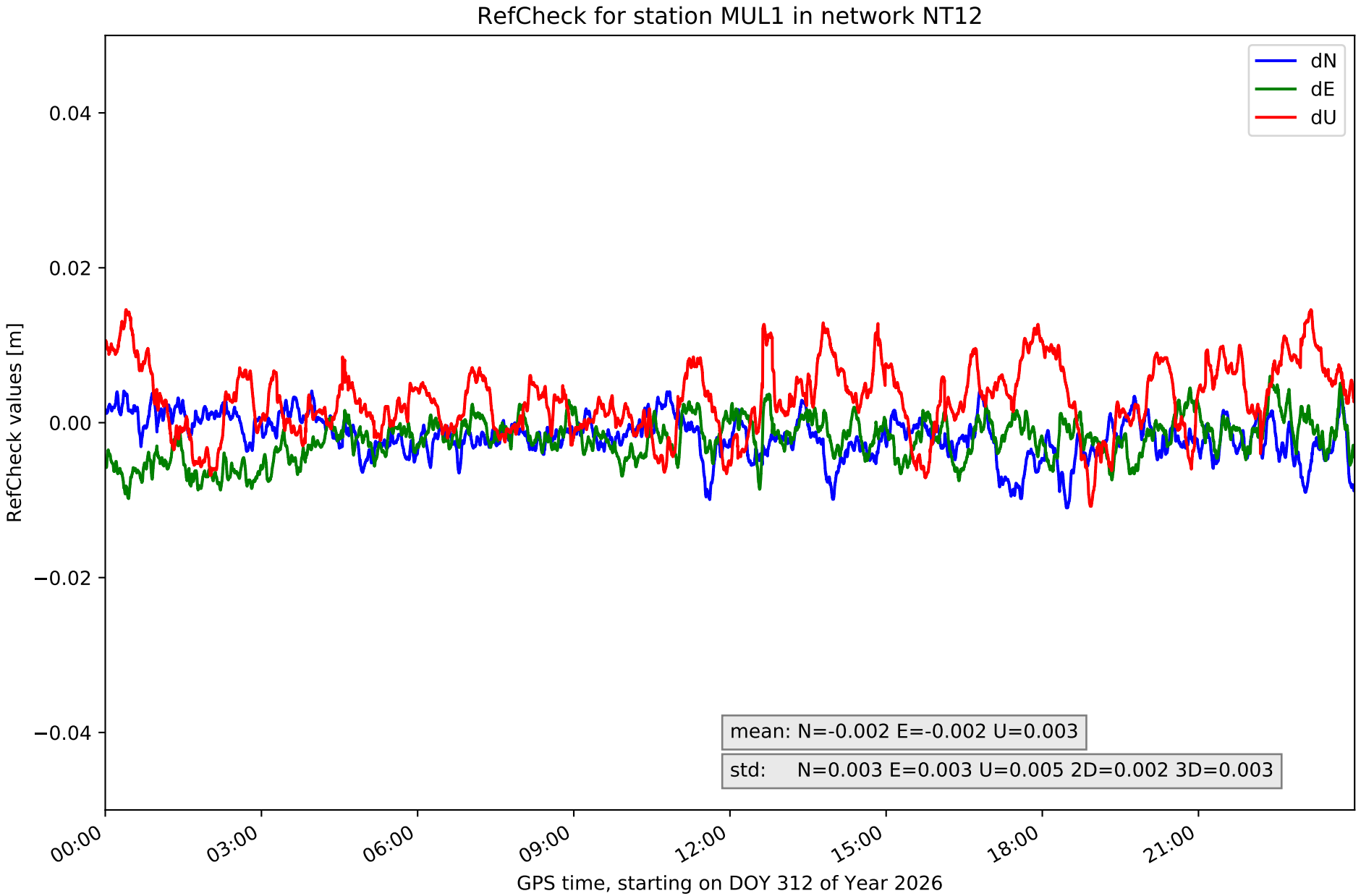

RefCheck for station EJID in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.0 E=0.0 U=0.005
std: N=0.004 E=0.003 U=0.011 2D=0.003 3D=0.009
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

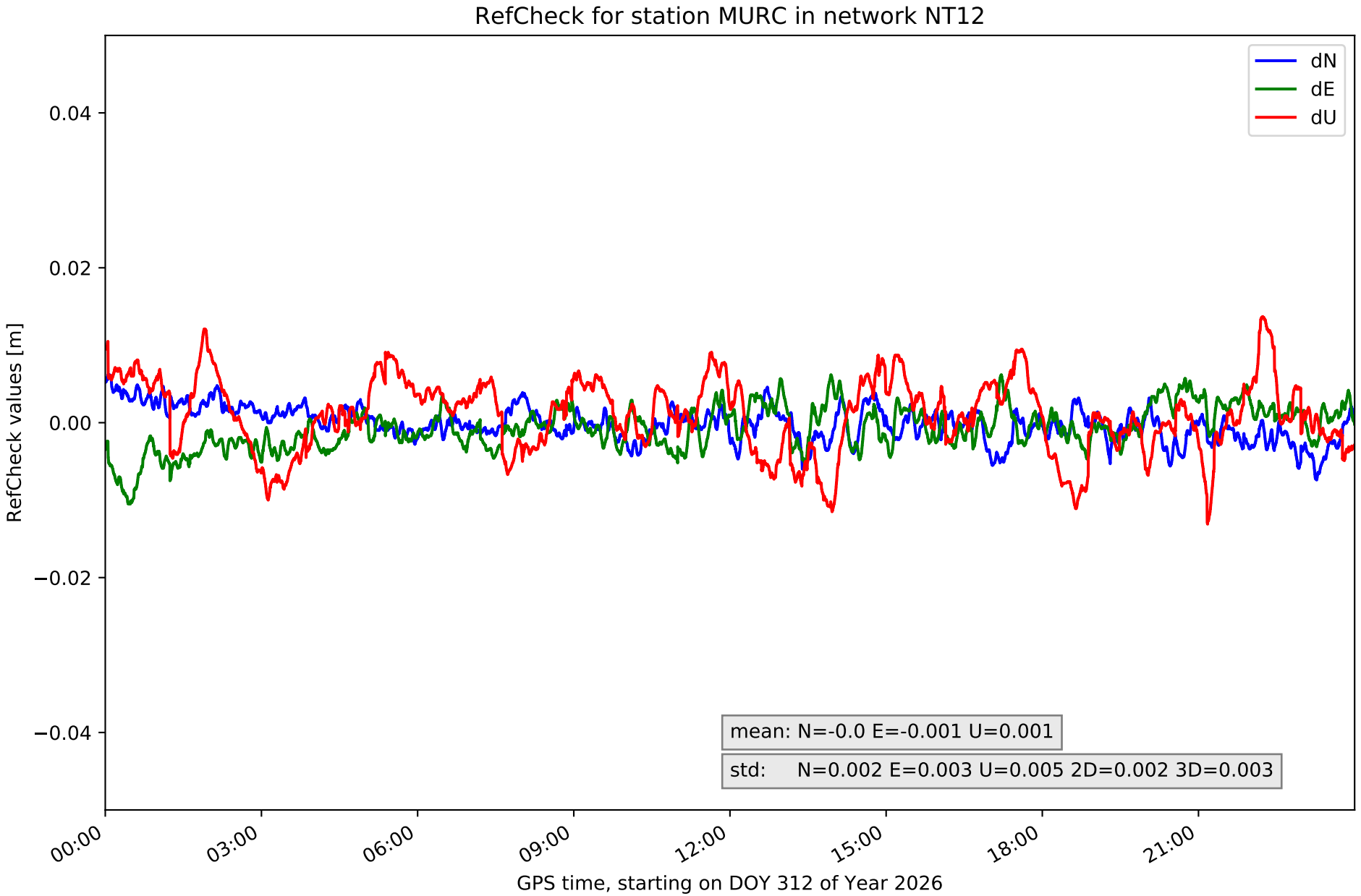

RefCheck for station ESPU in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.002 E=-0.004 U=-0.001
std: N=0.002 E=0.002 U=0.004 2D=0.002 3D=0.002
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

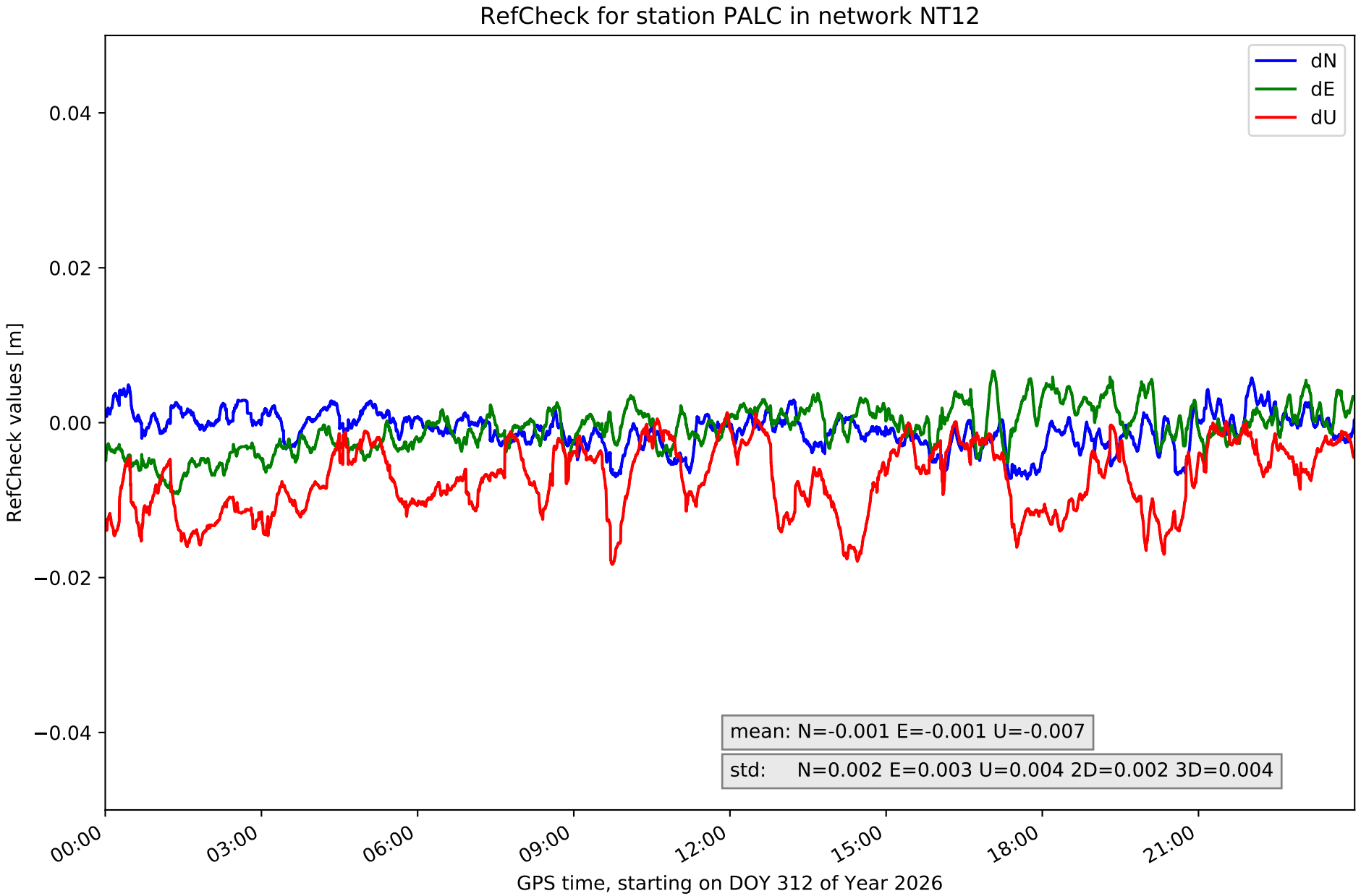

RefCheck for station GRA1 in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.005 E=-0.001 U=-0.0
std: N=0.003 E=0.003 U=0.01 2D=0.003 3D=0.007
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

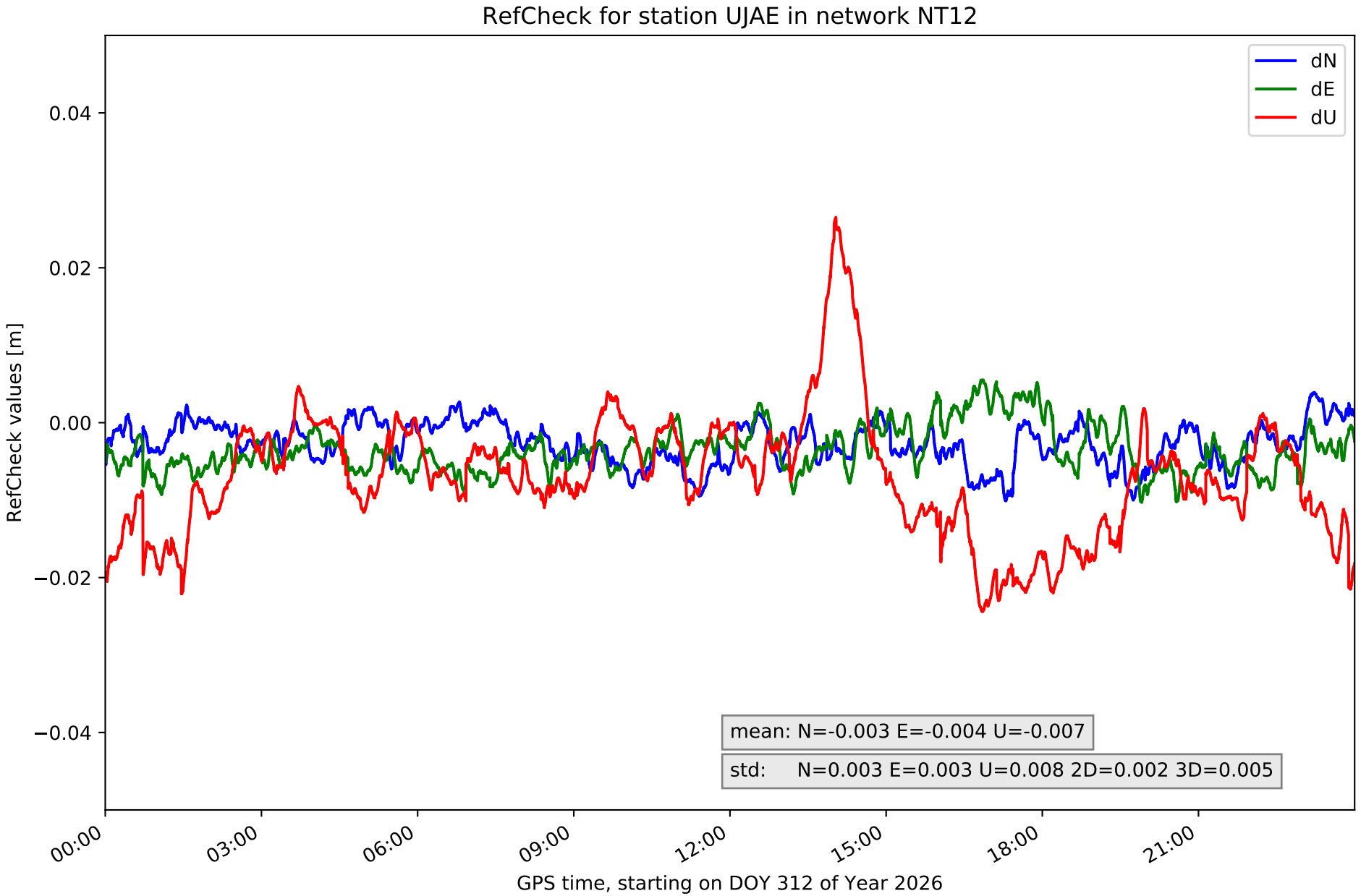

RefCheck for station HUOV in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.002 E=-0.0 U=-0.002
std: N=0.002 E=0.002 U=0.005 2D=0.002 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026

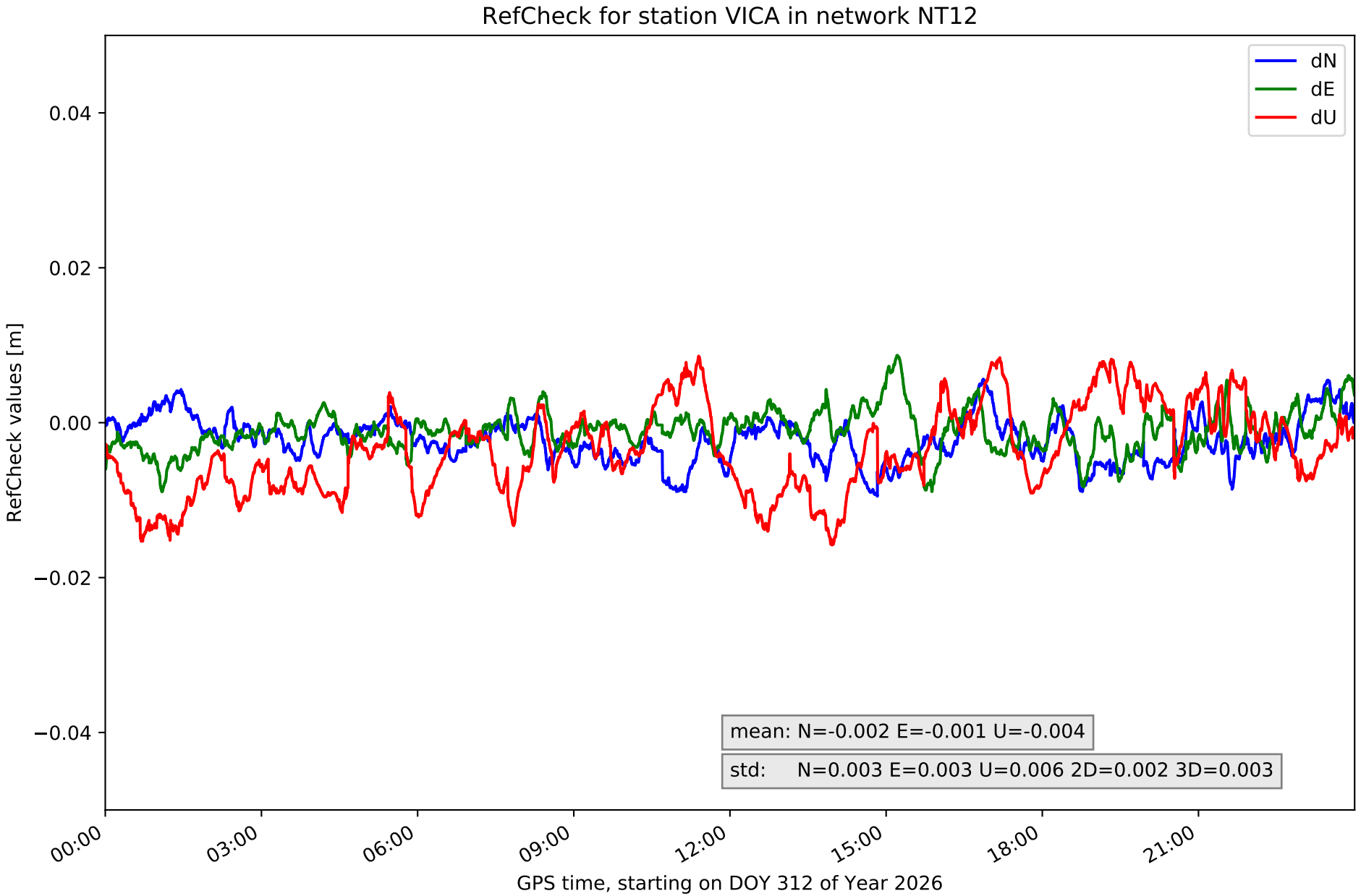

RefCheck for station MAZA in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.005 U=0.004
std: N=0.002 E=0.003 U=0.005 2D=0.002 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 312 of Year 2026


RefCheck for station MUL1 in network NT12
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=0.003 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 312 of Year 2026


RefCheck for station MURC in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.0 E=-0.001 U=0.001
std: N=0.002 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 312 of Year 2026


RefCheck for station PALC in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=-0.001 U=-0.007
std: N=0.002 E=0.003 U=0.004 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 312 of Year 2026


RefCheck for station UJAE in network NT12
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.003 E=-0.004 U=-0.007
std: N=0.003 E=0.003 U=0.008 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 312 of Year 2026


RefCheck for station VICA in network NT12
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=0.003 E=0.003 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 312 of Year 2026

# RefCheck values for network NT12

| Station | Nmin | Nmax | Nstd | Emin | Emax | Estd | Umin | Umax | Ustd | std2D | std3D | #2D > 0.01 | % 2D > 0.01 | #3D > 0.02 | % 3D > 0.02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALME | -0.013 | 0.013 | **0.004** | **-0.012** | **0.028** | **0.004** | -0.032 | 0.03 | 0.01 | **0.004** | 0.007 | 4495 | 6.0 | **9202** | **12.4** |
| CAAL | -0.01 | **0.015** | **0.004** | -0.006 | 0.008 | 0.003 | -0.027 | 0.018 | 0.007 | 0.003 | 0.005 | 5166 | 6.9 | 1382 | 1.9 |
| CABP | -0.006 | 0.01 | 0.002 | -0.007 | 0.01 | 0.003 | -0.015 | 0.014 | 0.005 | 0.002 | 0.003 | 161 | 0.2 | 0 | 0.0 |
| CARG | -0.006 | 0.007 | 0.002 | -0.006 | 0.007 | 0.002 | -0.019 | 0.008 | 0.004 | 0.002 | 0.002 | 0 | 0.0 | 0 | 0.0 |
| CARV | -0.005 | 0.009 | 0.002 | -0.008 | 0.006 | 0.002 | -0.023 | 0.004 | 0.005 | 0.002 | 0.004 | 0 | 0.0 | 2228 | 3.0 |
| CDCR | -0.006 | 0.006 | 0.002 | -0.007 | 0.004 | 0.002 | -0.026 | 0.016 | 0.006 | 0.001 | 0.003 | 0 | 0.0 | 956 | 1.3 |
| CIEZ | -0.009 | 0.008 | 0.003 | -0.009 | 0.007 | 0.002 | -0.015 | 0.009 | 0.005 | 0.002 | 0.003 | 135 | 0.2 | 0 | 0.0 |
| EJID | **-0.021** | 0.007 | **0.004** | -0.009 | 0.013 | 0.003 | -0.018 | **0.06** | **0.011** | 0.003 | **0.009** | 3023 | 4.1 | 3239 | 4.3 |
| ESPU | -0.004 | 0.008 | 0.002 | -0.01 | 0.002 | 0.002 | -0.009 | 0.014 | 0.004 | 0.002 | 0.002 | 1133 | 1.5 | 0 | 0.0 |
| GRA1 | -0.005 | **0.015** | 0.003 | -0.011 | 0.01 | 0.003 | **-0.047** | 0.02 | 0.01 | 0.003 | 0.007 | **5789** | **7.8** | 3854 | 5.2 |
| HUOV | -0.005 | 0.01 | 0.002 | -0.007 | 0.011 | 0.002 | -0.02 | 0.015 | 0.005 | 0.002 | 0.003 | 526 | 0.7 | 228 | 0.3 |
| MAZA | -0.007 | 0.007 | 0.002 | -0.011 | 0.004 | 0.003 | -0.008 | 0.016 | 0.005 | 0.002 | 0.003 | 1125 | 1.5 | 0 | 0.0 |
| MUL1 | -0.011 | 0.004 | 0.003 | -0.01 | 0.006 | 0.003 | -0.011 | 0.015 | 0.005 | 0.002 | 0.003 | 504 | 0.7 | 0 | 0.0 |
| MURC | -0.007 | 0.006 | 0.002 | -0.011 | 0.006 | 0.003 | -0.013 | 0.014 | 0.005 | 0.002 | 0.003 | 466 | 0.6 | 0 | 0.0 |
| PALC | -0.007 | 0.006 | 0.002 | -0.009 | 0.007 | 0.003 | -0.018 | 0.001 | 0.004 | 0.002 | 0.004 | 0 | 0.0 | 0 | 0.0 |
| UJAE | -0.01 | 0.004 | 0.003 | -0.01 | 0.005 | 0.003 | -0.024 | 0.026 | 0.008 | 0.002 | 0.005 | 1869 | 2.5 | 6362 | 8.5 |
| VICA | -0.009 | 0.006 | 0.003 | -0.009 | 0.009 | 0.003 | -0.016 | 0.009 | 0.006 | 0.002 | 0.003 | 861 | 1.2 | 0 | 0.0 |
| **Mean** | **-0.008** | **0.008** | **0.003** | **-0.009** | **0.008** | **0.003** | **-0.02** | **0.017** | **0.006** | **0.002** | **0.004** | **1485.5** | **2.0** | **1614.8** | **2.2** |
| **Min/Max** | **-0.021** | **0.015** | **0.004** | **-0.012** | **0.028** | **0.004** | **-0.047** | **0.06** | **0.011** | **0.004** | **0.009** | **5789** | **7.8** | **9202** | **12.4** |

# fixing statistic for network NT12

| fixing percentage of | all GNSS | G | R | E | C |
|---|---|---|---|---|---|
| using threshold 0.3 | 95.0 | 94.9 | 94.8 | 96.4 | 93.8 |
| considering satellites with dual-frequency fixed | 94.2 | 94.0 | 93.9 | 95.8 | 92.2 |
| considering all signals separately | 94.1 | 93.8 | 93.9 | 95.9 | 90.7 |