summary for network NET9

timeperiod chosen: from 2026-11-10-00:00:00 until 2026-11-10-23:59:59

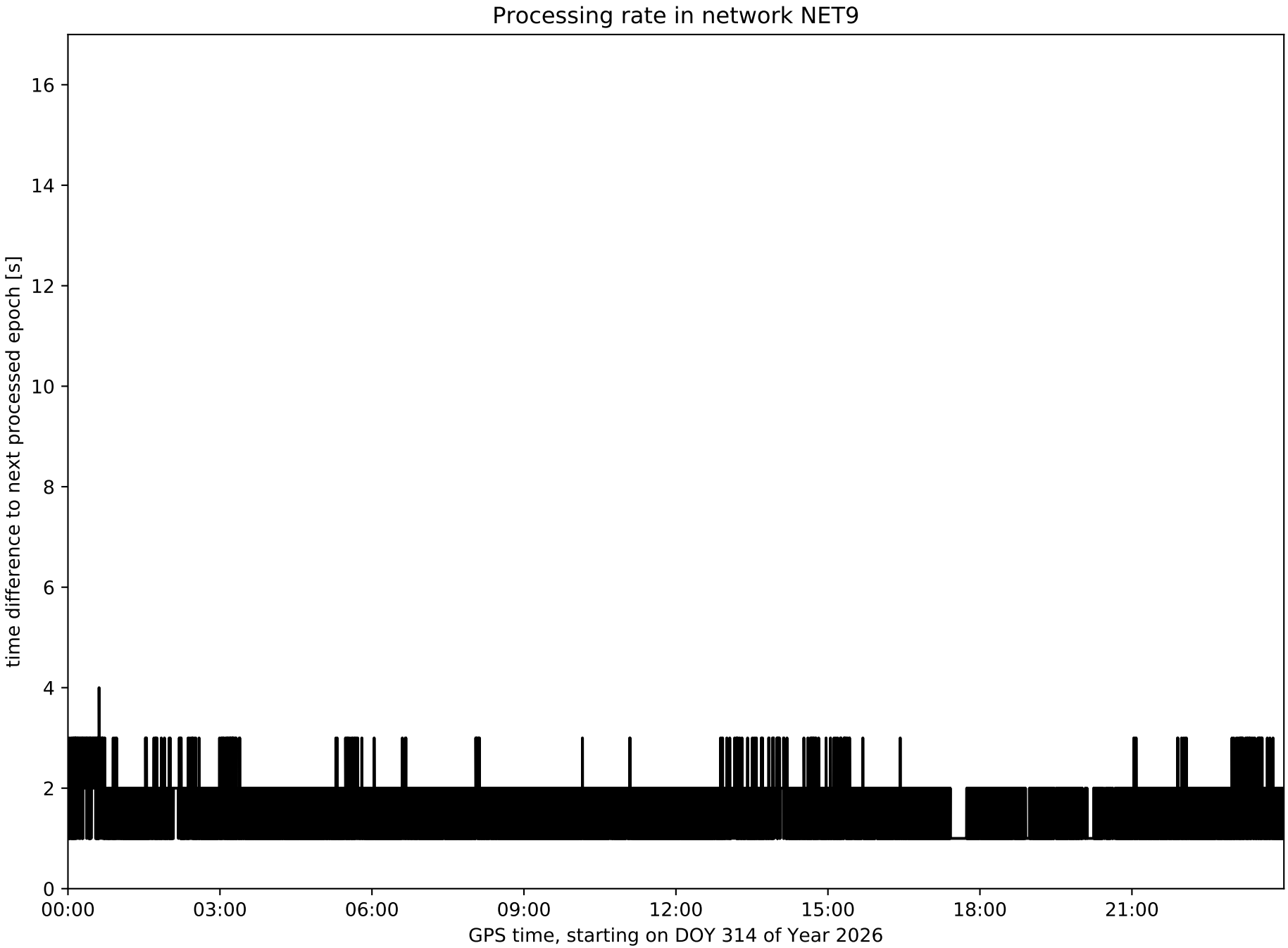
average update rate (durations larger than 15 seconds considered as observation gap): 1.2 seconds

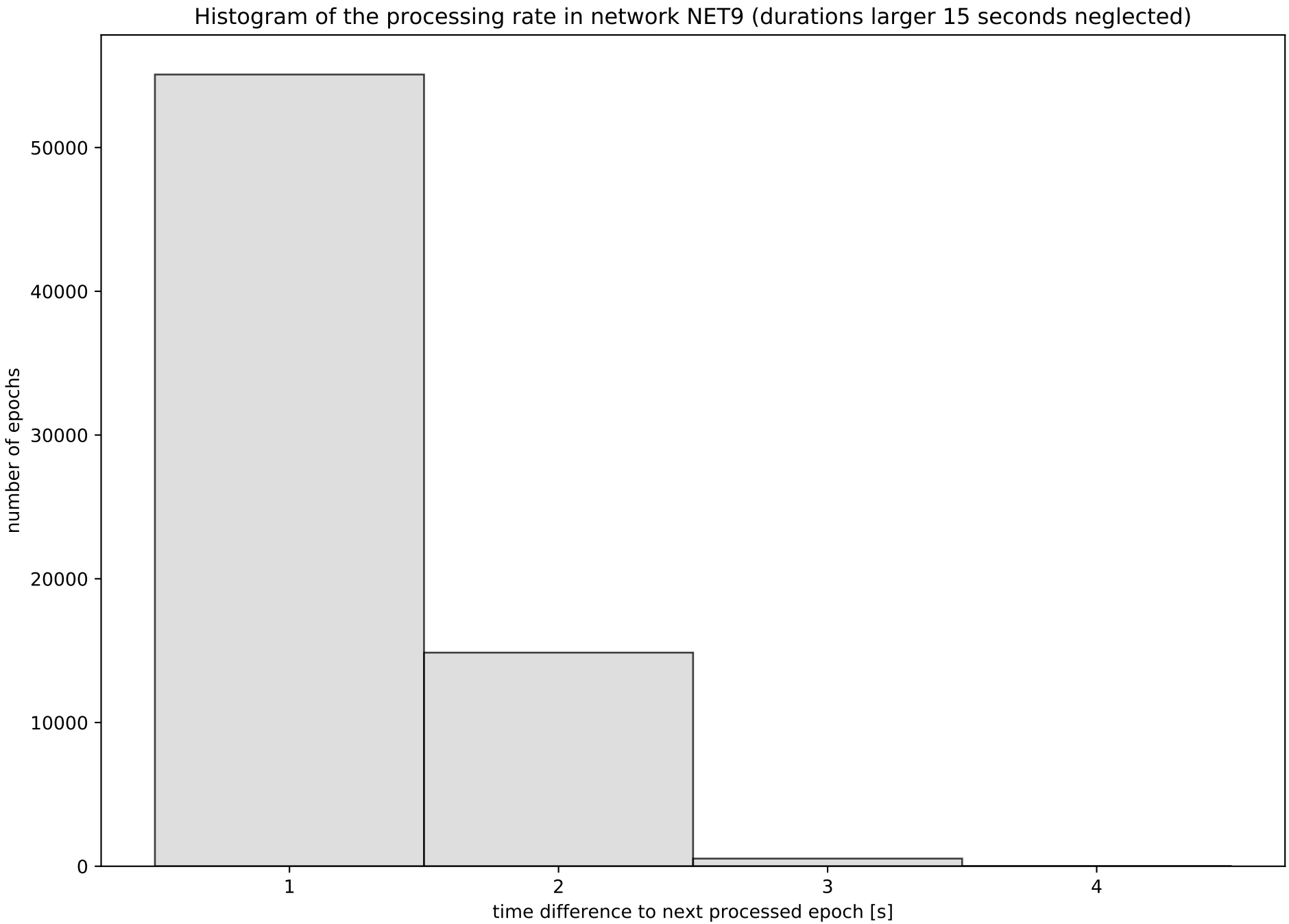
average fixing percentage with threshold set to 0.3: 94.9 percent

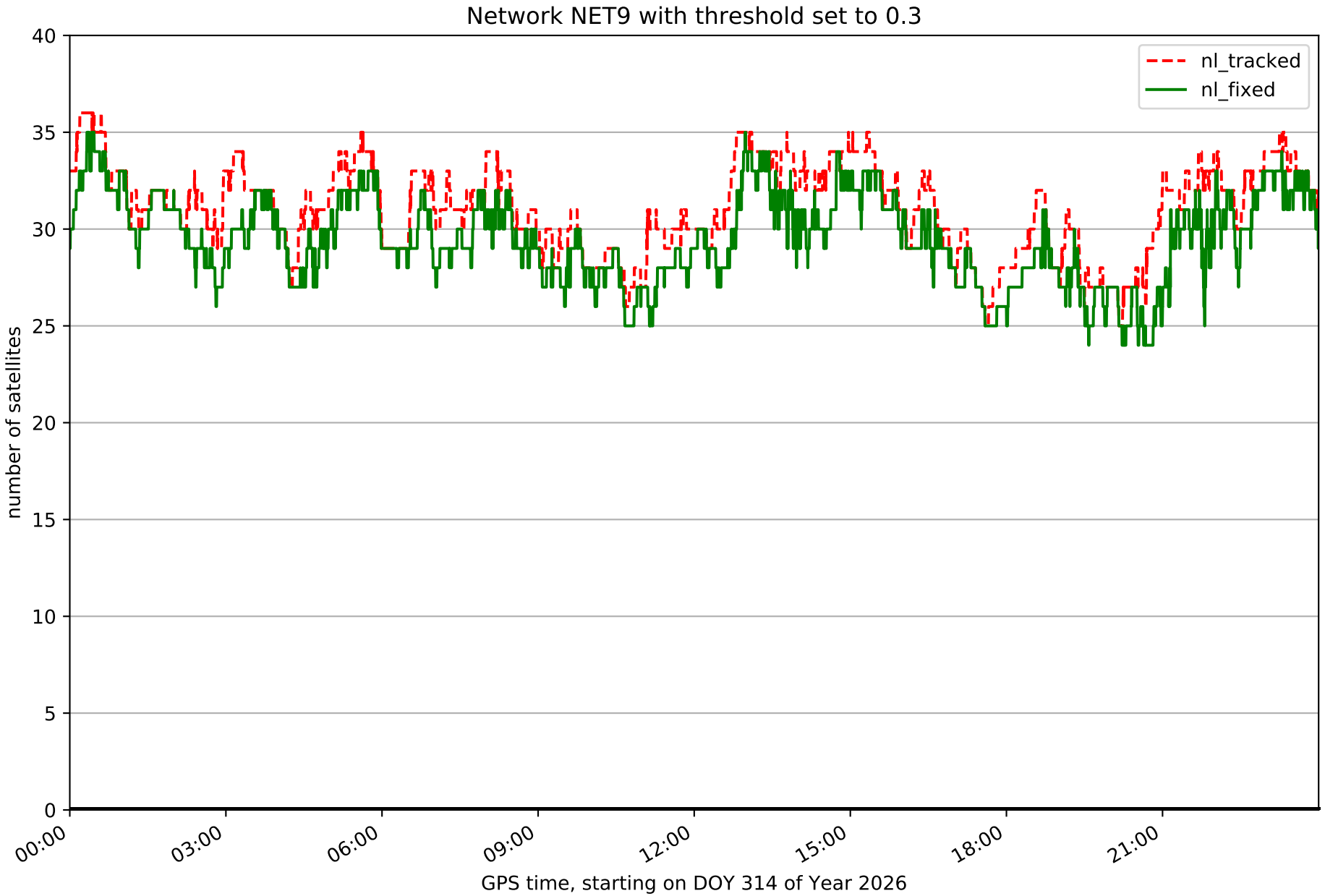
stations available: 16 of 16

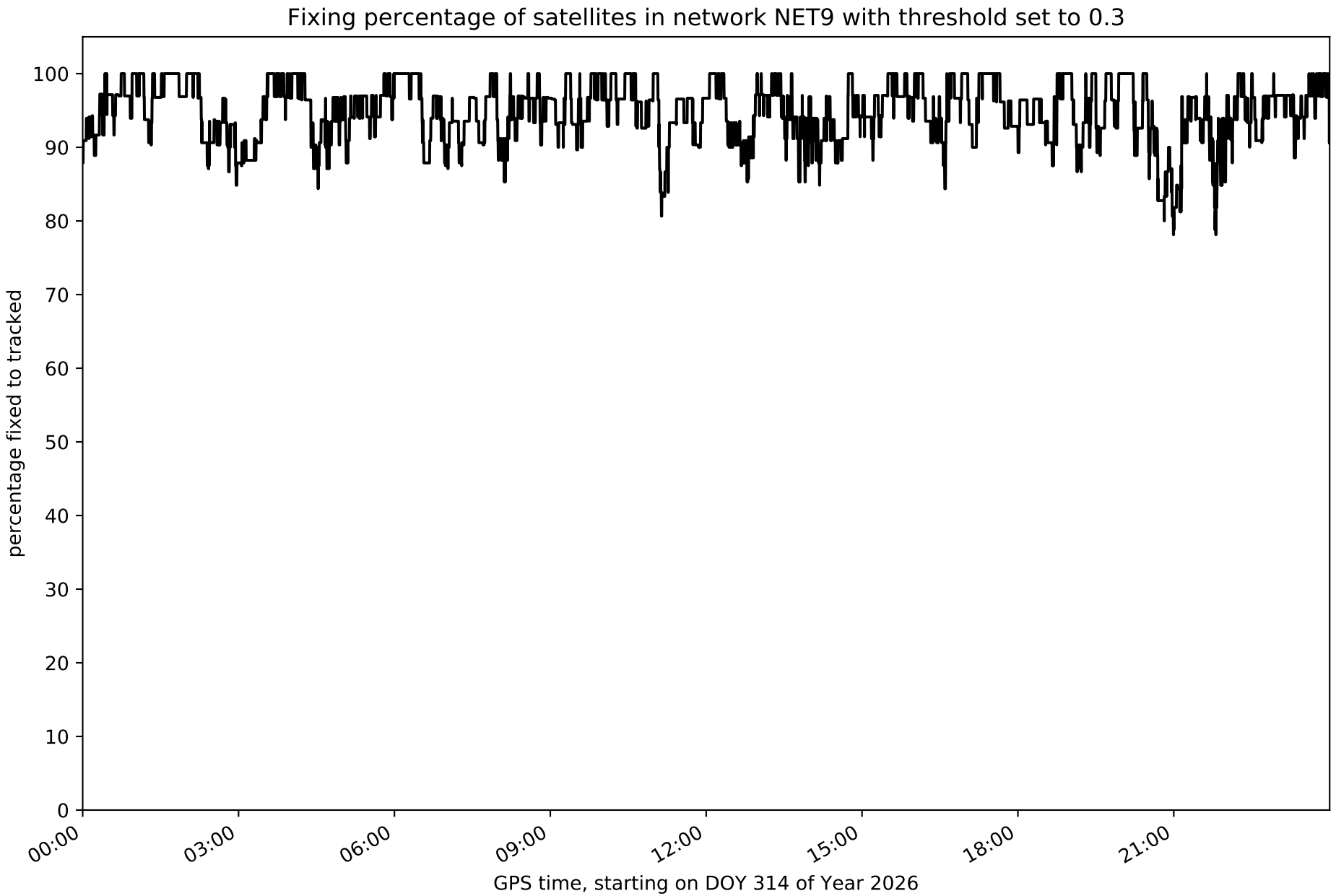
station information:

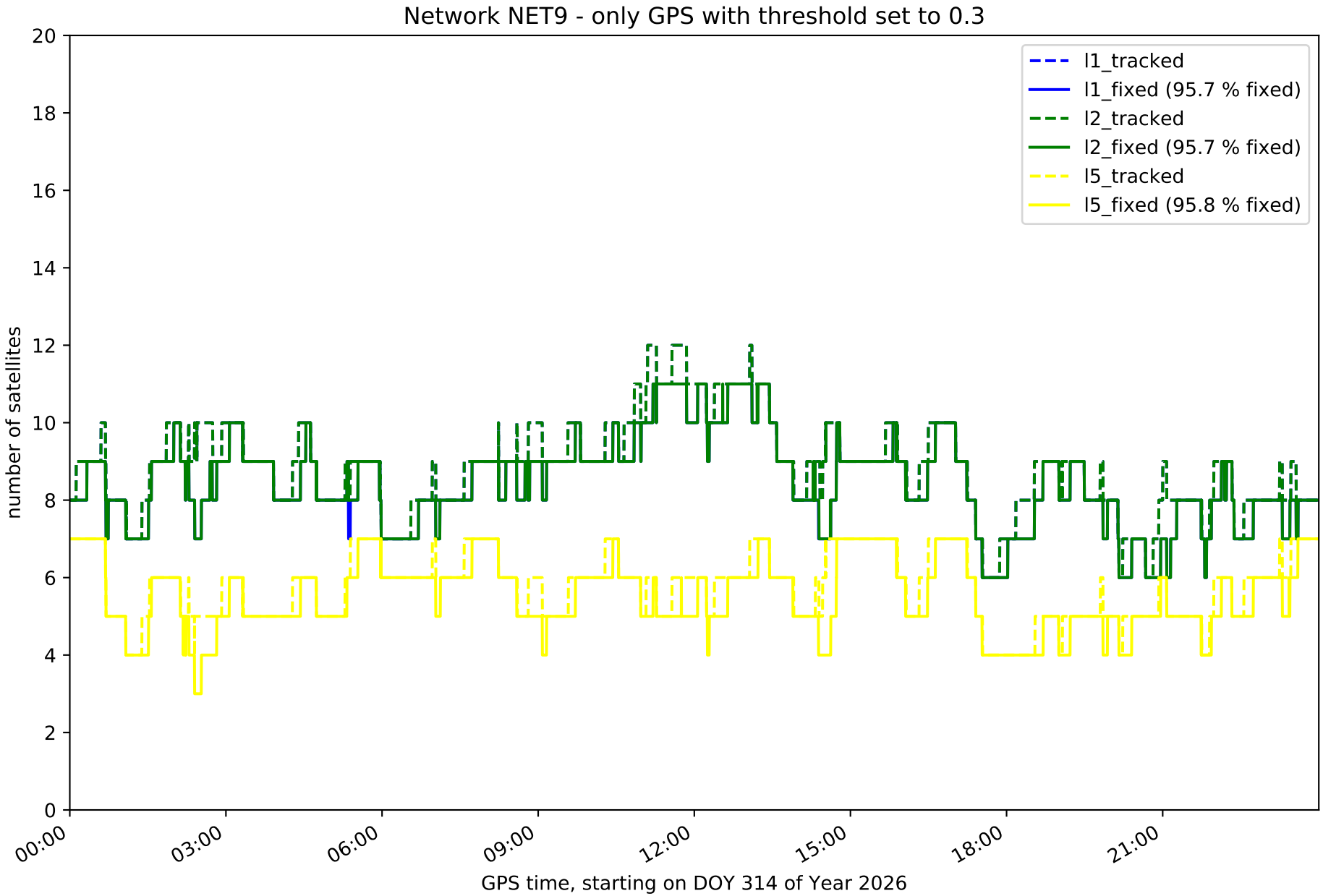
station ARIB:	antenna: GPPNULLANTENNA	NONE	receiver: LEICA GR50	height: 1037.406
station BLGU:	antenna: LEIAR20	LEIM	receiver: LEICA GR50	height: 1649.265
station BRJA:	antenna: GPPNULLANTENNA	NONE	receiver: LEICA GR50	height: 493.66
station CARC:	antenna: GPPNULLANTENNA	NONE	receiver: LEICA GR50	height: 420.378
station CSOS:	antenna: LEIAR20	LEIM	receiver: LEICA GR50	height: 957.888
station EJEA:	antenna: GPPNULLANTENNA	NONE	receiver: LEICA GR50	height: 384.587
station FRAG:	antenna: LEIAR25.R4	LEIT	receiver: LEICA GR10	height: 181.842
station JACA:	antenna: LEIAR25.R3	LEIT	receiver: LEICA GR10	height: 738.976
station OSCA:	antenna: GPPNULLANTENNA	NONE	receiver: LEICA GR30	height: 546.705
station RONL:	antenna: GPPNULLANTENNA	NONE	receiver: LEICA GR50	height: 760.44
station SABI:	antenna: GPPNULLANTENNA	NONE	receiver: LEICA GR50	height: 850.526
station SANS:	antenna: GPPNULLANTENNA	NONE	receiver: LEICA GR50	height: 459.183
station SRNA:	antenna: GPPNULLANTENNA	NONE	receiver: LEICA GR50	height: 355.155
station TUD1:	antenna: LEIAR20	LEIM	receiver: LEICA GR50	height: 340.792
station ZARA:	antenna: TRM29659.00	NONE	receiver: TRIMBLE NETR9	height: 299.34
station ZUER:	antenna: GPPNULLANTENNA	NONE	receiver: LEICA GR50	height: 339.223

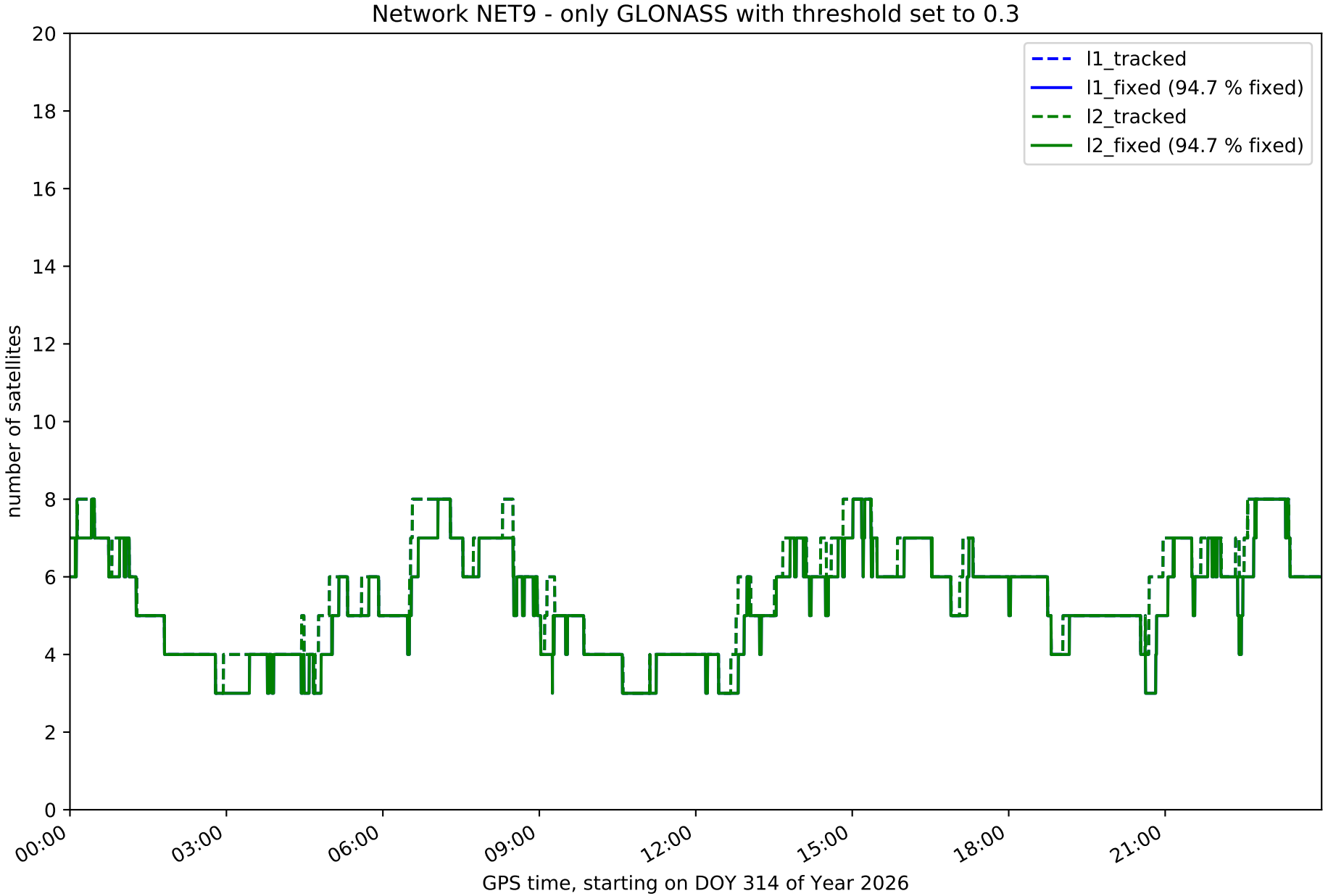

Processing rate in network NET9
time difference to next processed epoch [s]
0
2
4
6
8
10
12
14
16
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

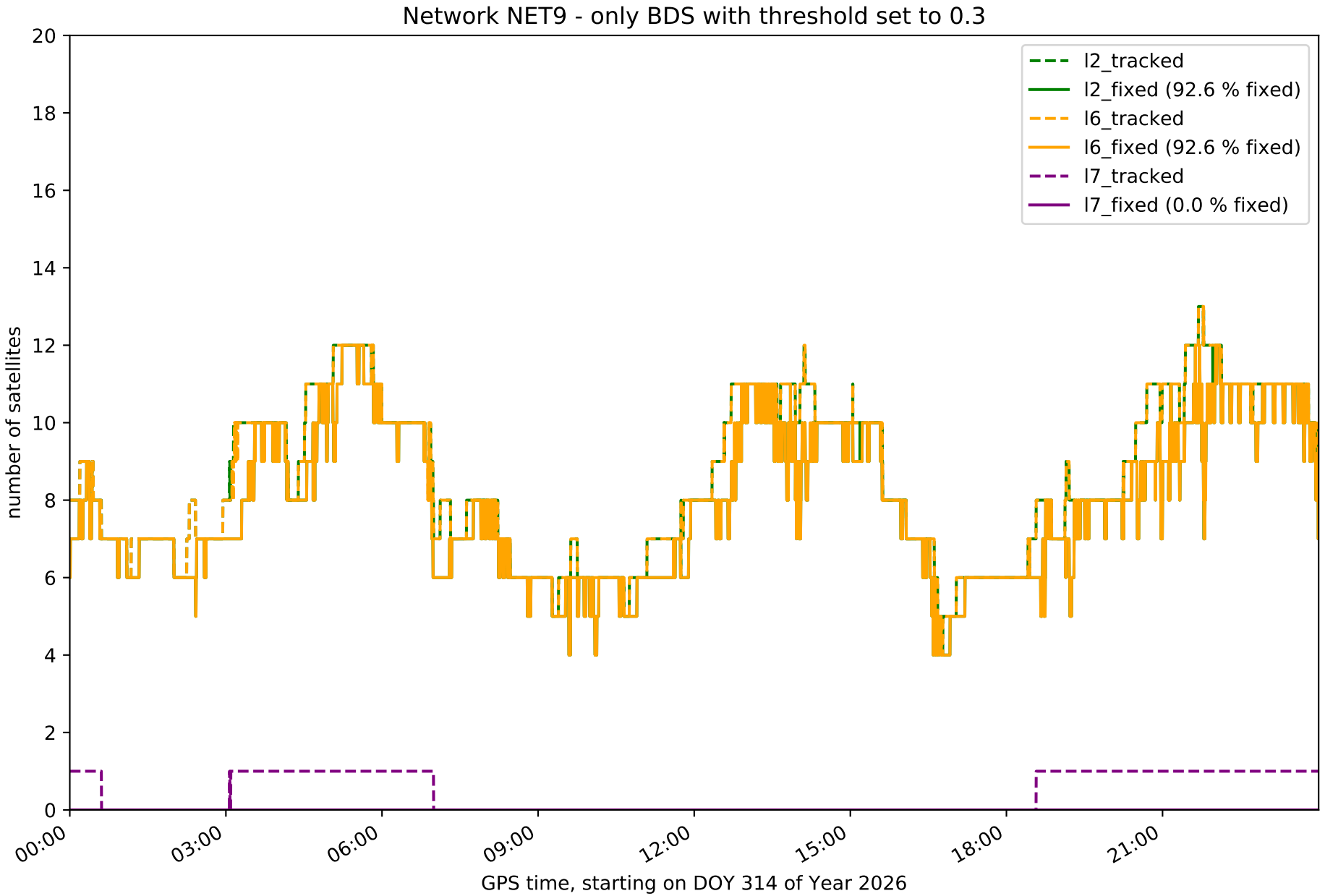

Histogram of the processing rate in network NET9 (durations larger 15 seconds neglected)
number of epochs
0
10000
20000
30000
40000
50000
1
2
3
4
time difference to next processed epoch [s]

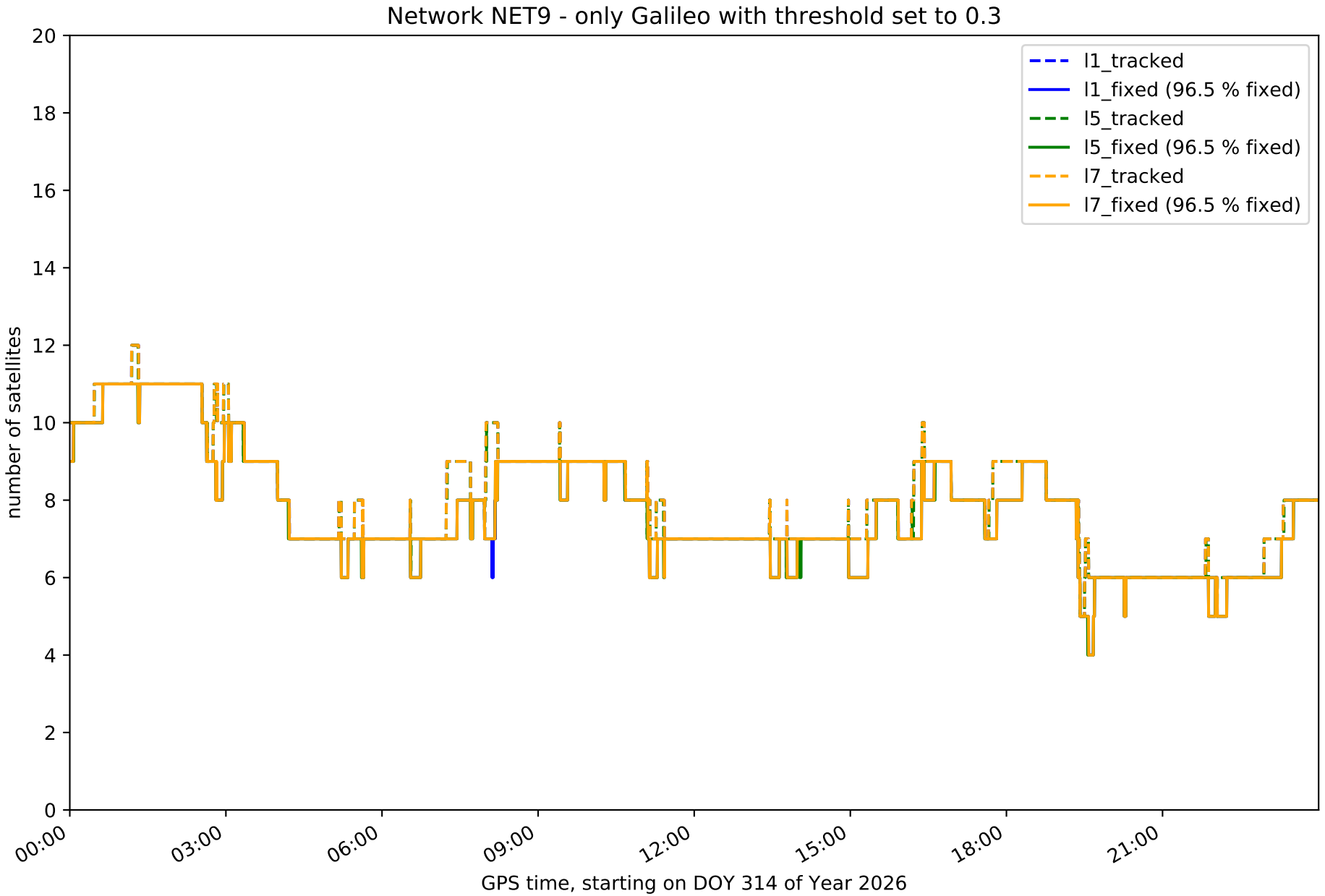

Network NET9 with threshold set to 0.3
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
40
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

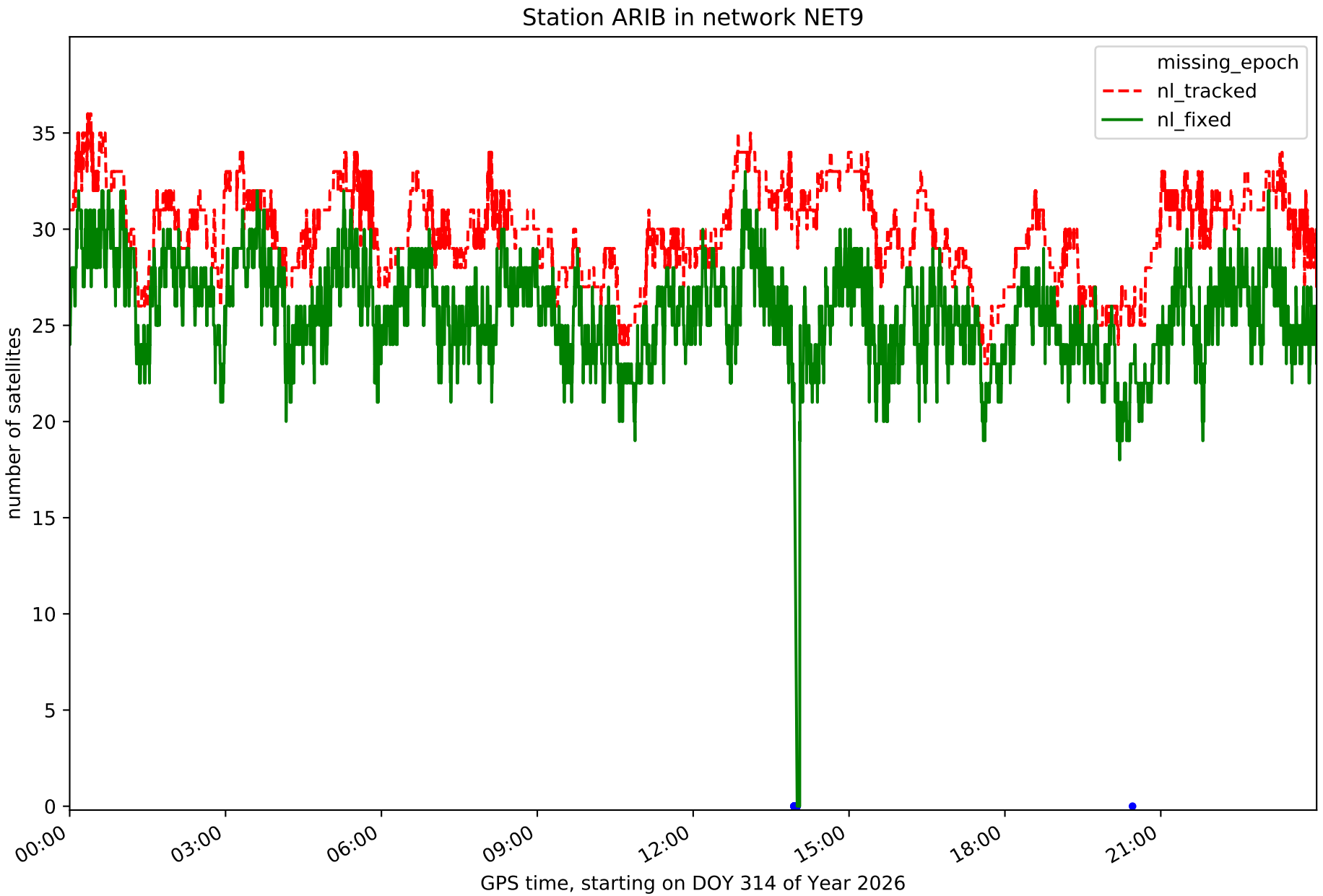

Fixing percentage of satellites in network NET9 with threshold set to 0.3
percentage fixed to tracked
100
90
80
70
60
50
40
30
20
10
0
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

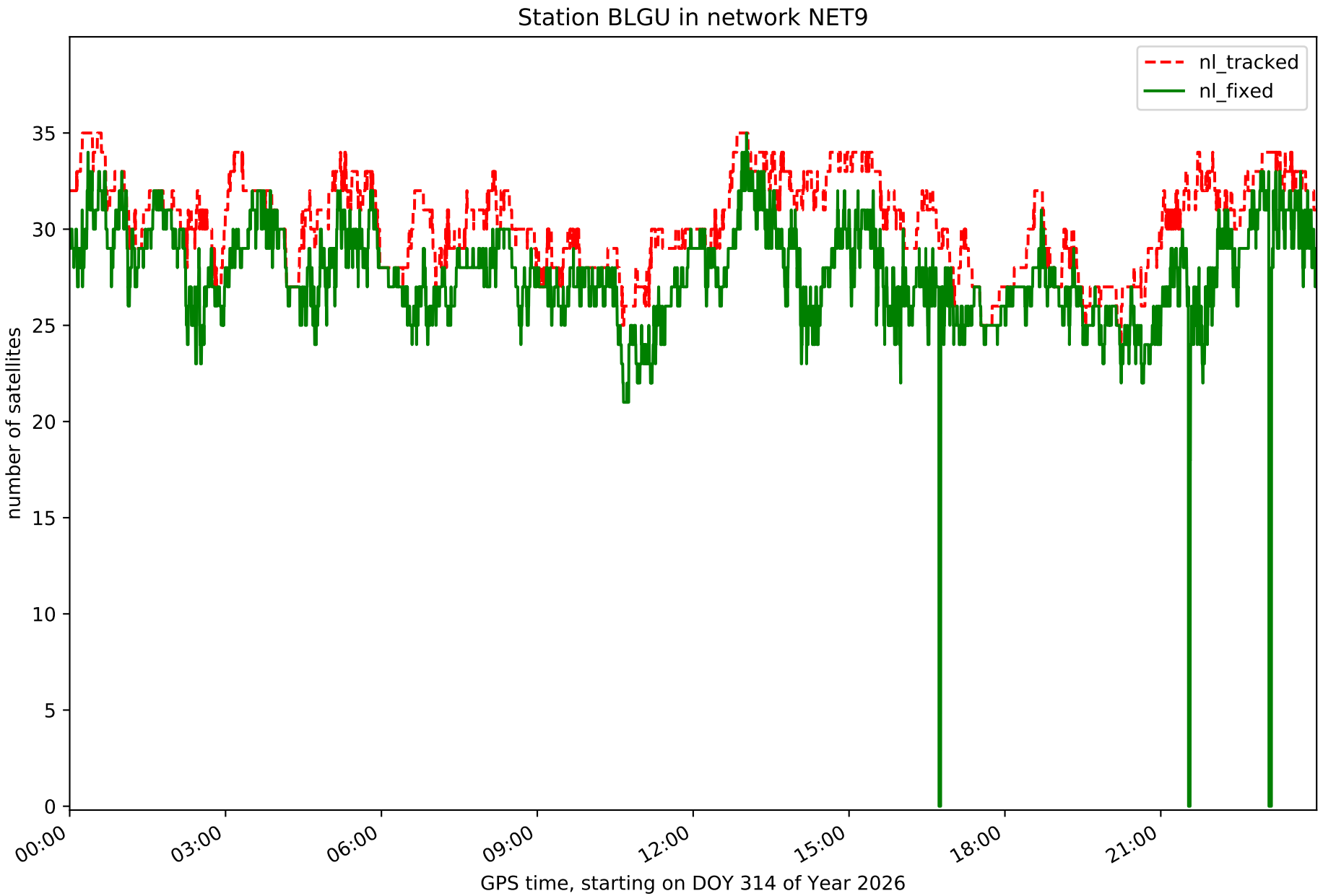

Network NET9 - only GPS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 314 of Year 2026
l1_tracked
l1_fixed (95.7 % fixed)
l2_tracked
l2_fixed (95.7 % fixed)
l5_tracked
l5_fixed (95.8 % fixed)
0
2
4
6
8
10
12
14
16
18
20
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00

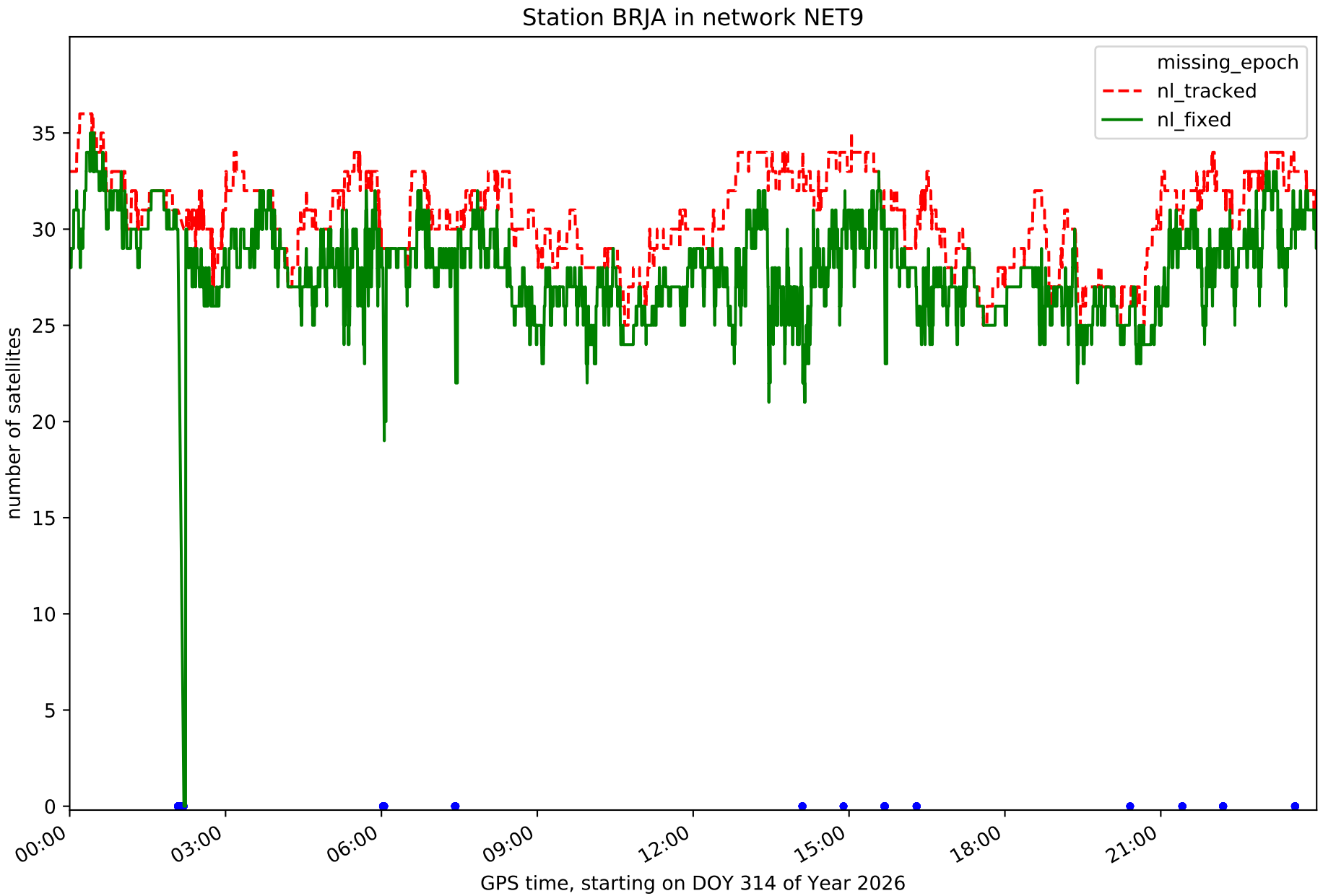

Network NET9 - only GLONASS with threshold set to 0.3
l1_tracked
l1_fixed (94.7 % fixed)
l2_tracked
l2_fixed (94.7 % fixed)
number of satellites
0
2
4
6
8
10
12
14
16
18
20
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

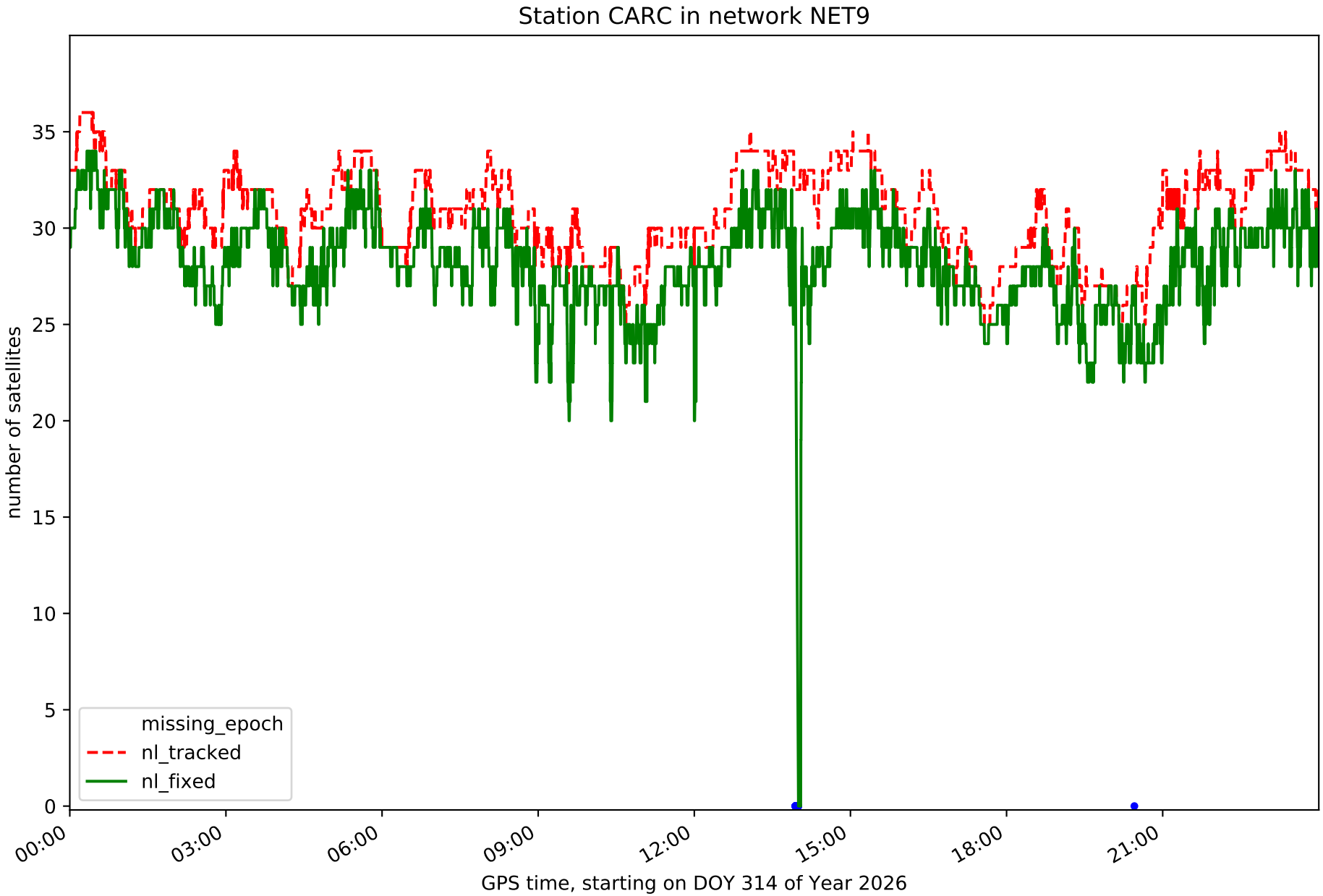

Network NET9 - only BDS with threshold set to 0.3
number of satellites
GPS time, starting on DOY 314 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
I2_tracked
I2_fixed (92.6 % fixed)
I6_tracked
I6_fixed (92.6 % fixed)
I7_tracked
I7_fixed (0.0 % fixed)

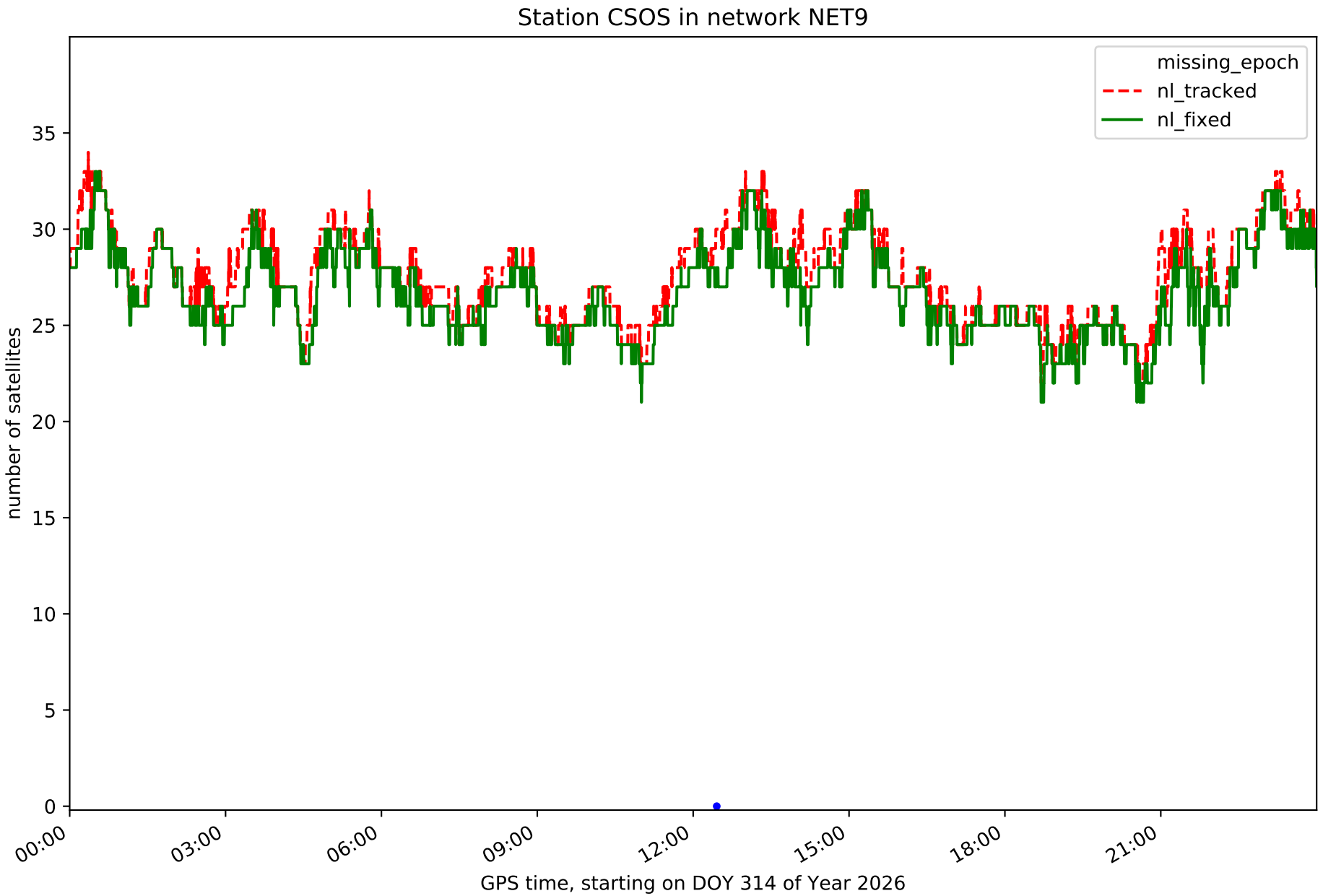

Network NET9 - only Galileo with threshold set to 0.3
number of satellites
GPS time, starting on DOY 314 of Year 2026
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
0
2
4
6
8
10
12
14
16
18
20
l1_tracked
l1_fixed (96.5 % fixed)
l5_tracked
l5_fixed (96.5 % fixed)
l7_tracked
l7_fixed (96.5 % fixed)

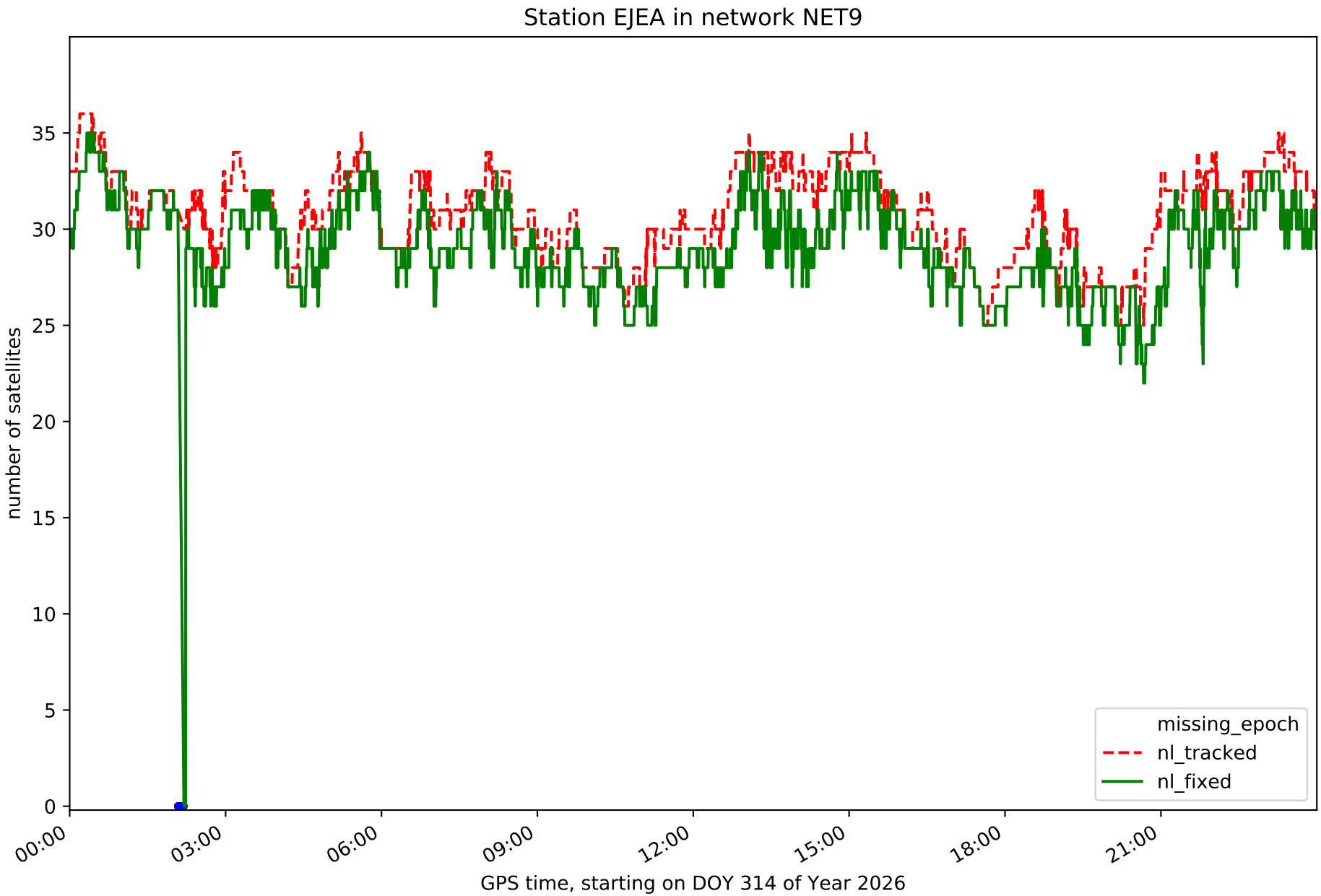

Station ARIB in network NET9
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

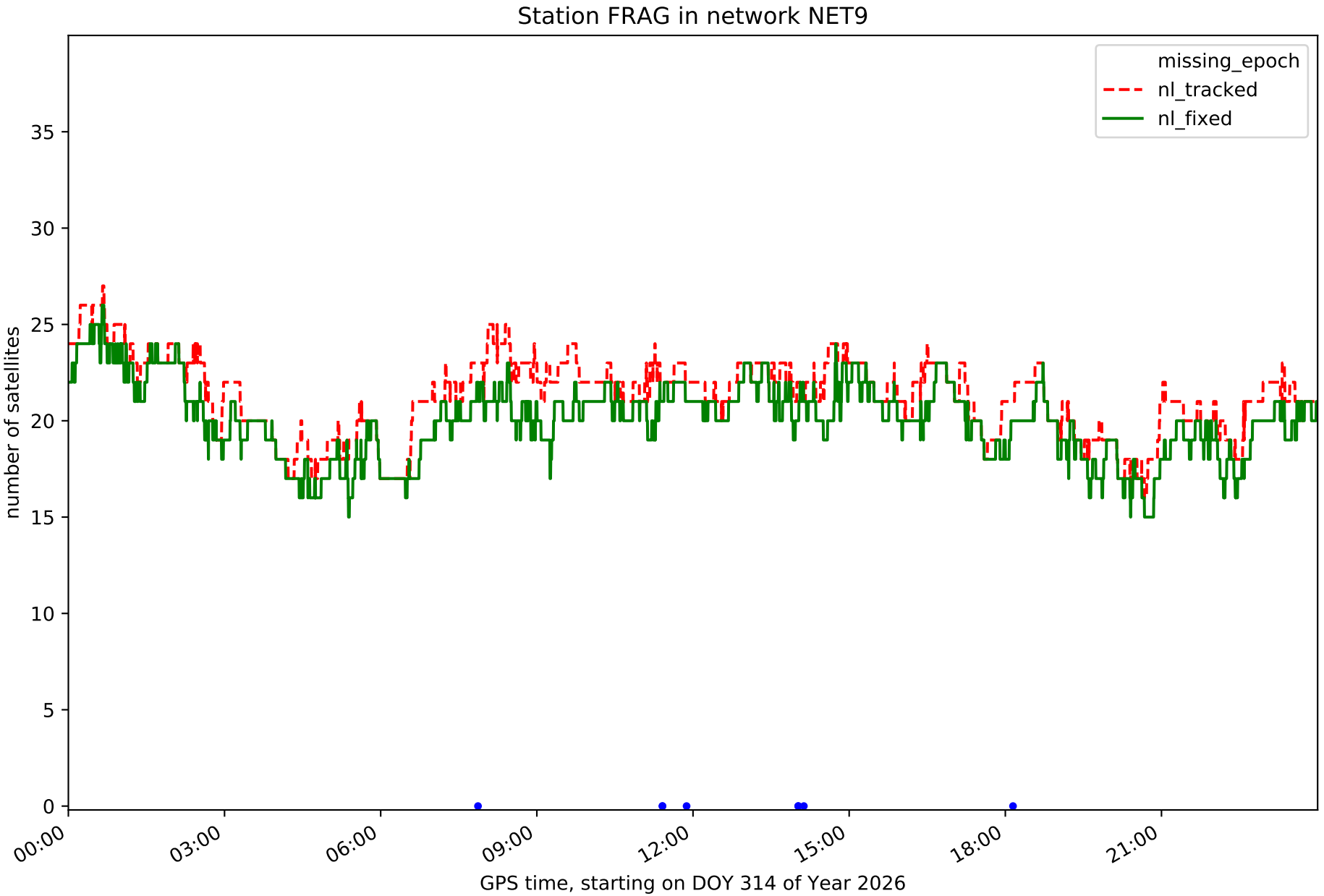

Station BLGU in network NET9
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

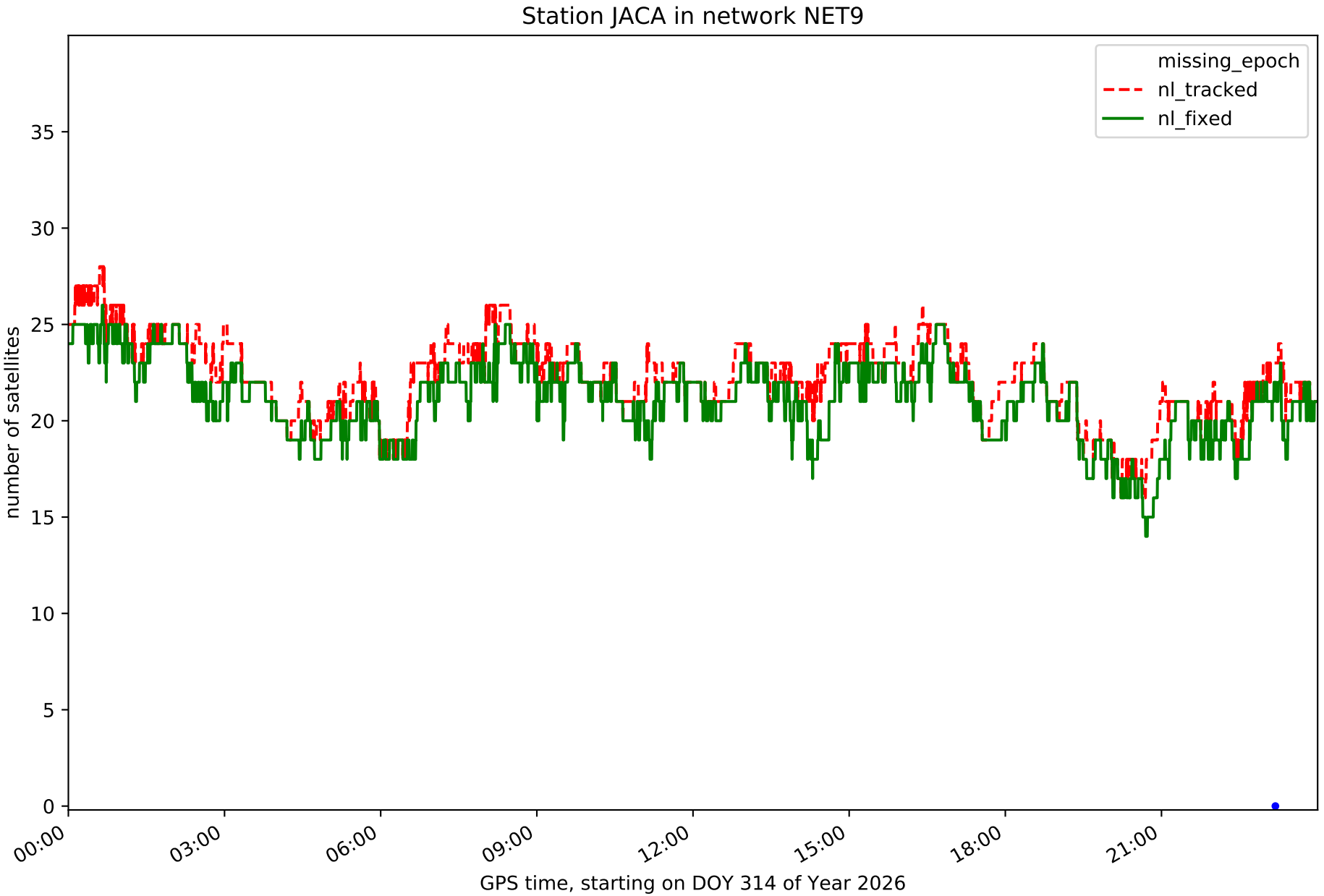

Station BRJA in network NET9
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

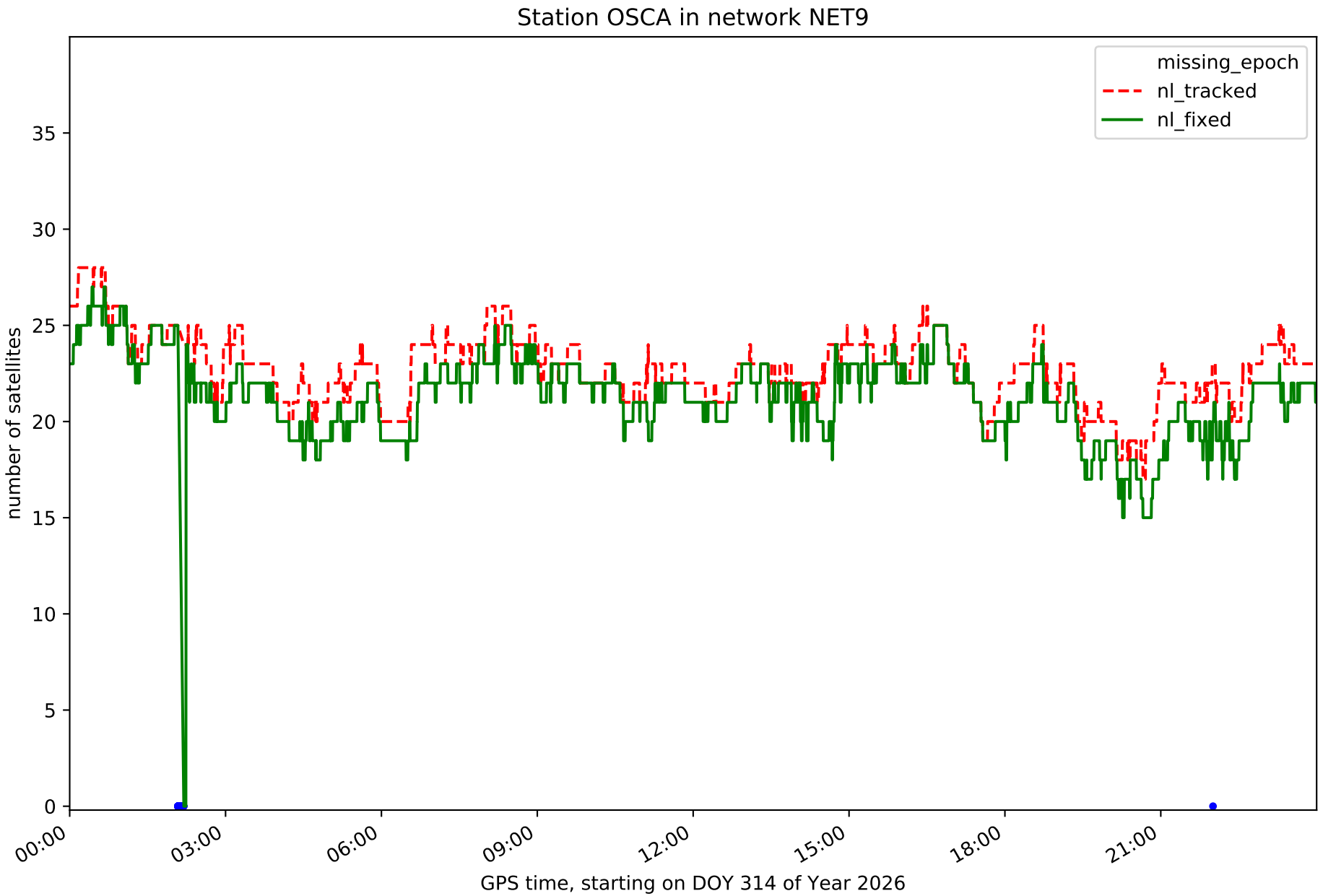

Station CARC in network NET9
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026
missing_epoch
nl_tracked
nl_fixed

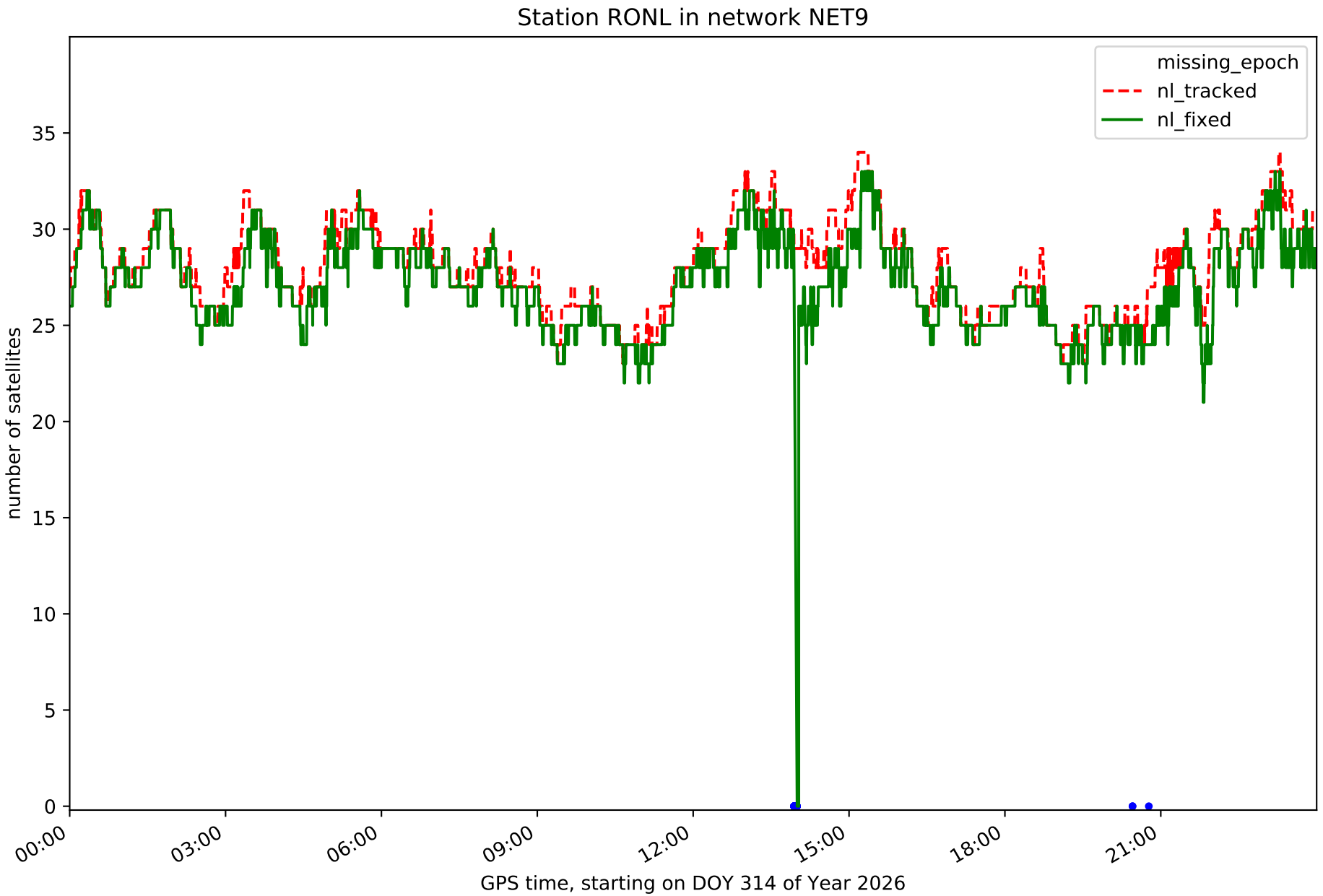

Station CSOS in network NET9
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

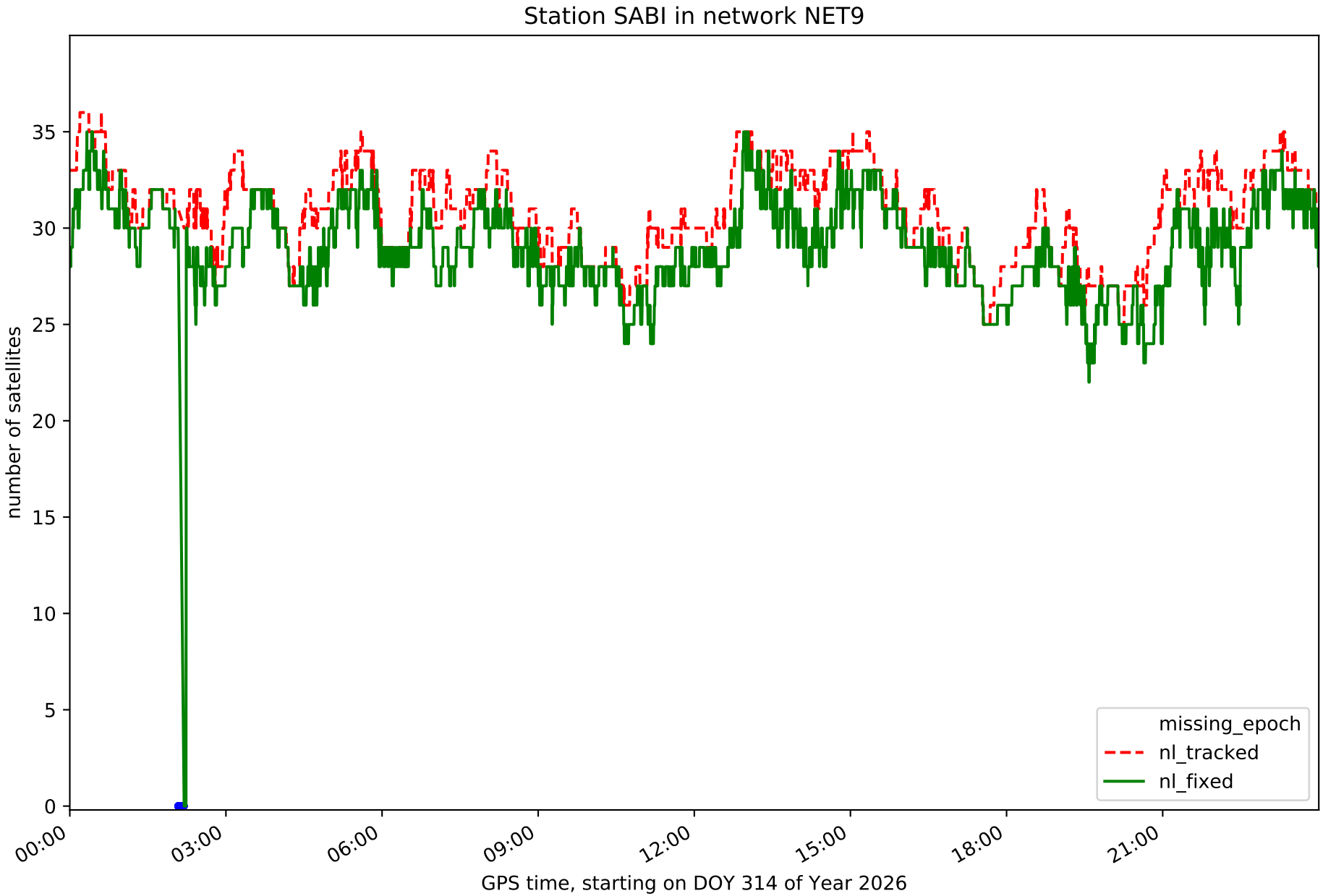

Station EJEA in network NET9
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026
missing_epoch
nl_tracked
nl_fixed

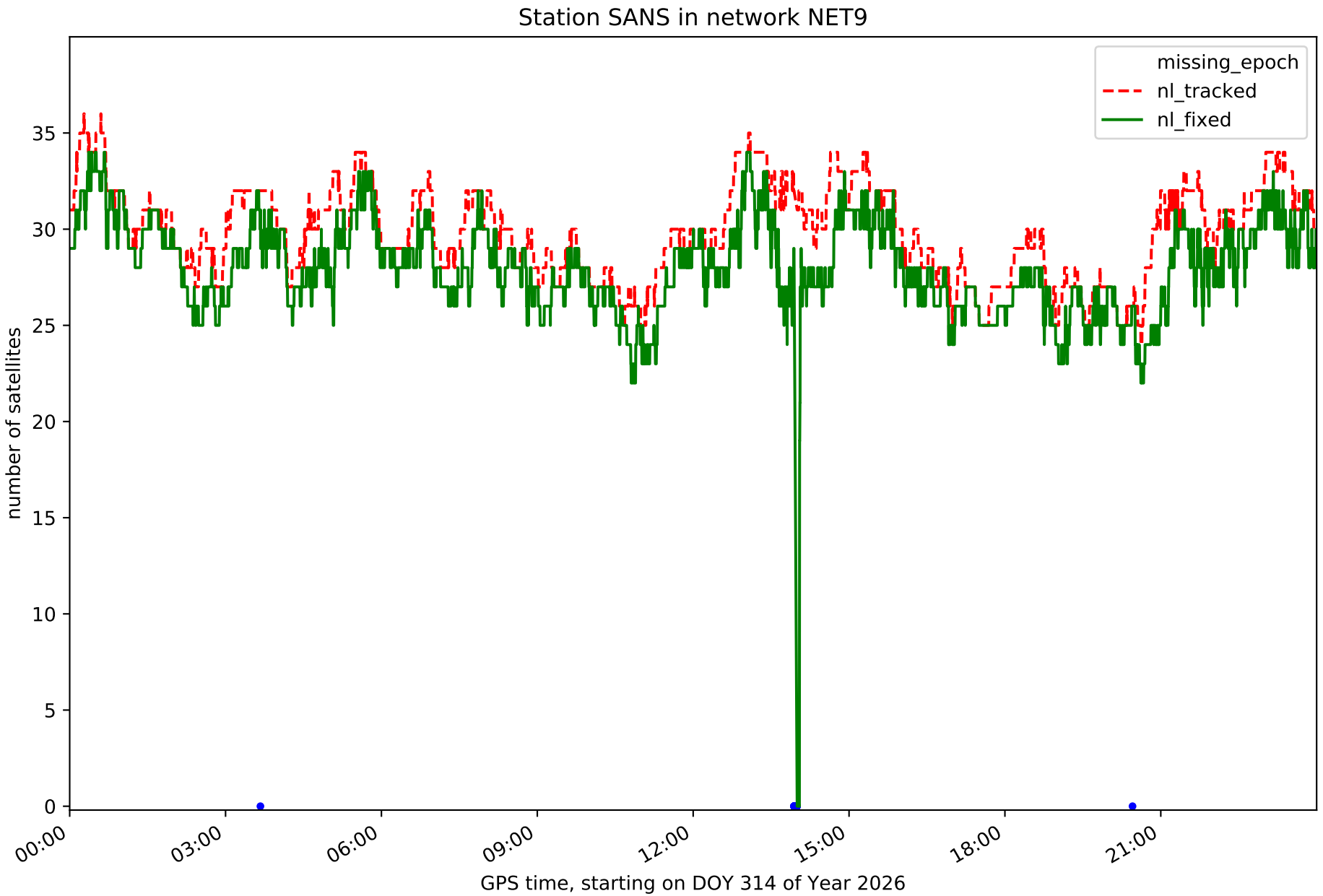

Station FRAG in network NET9
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

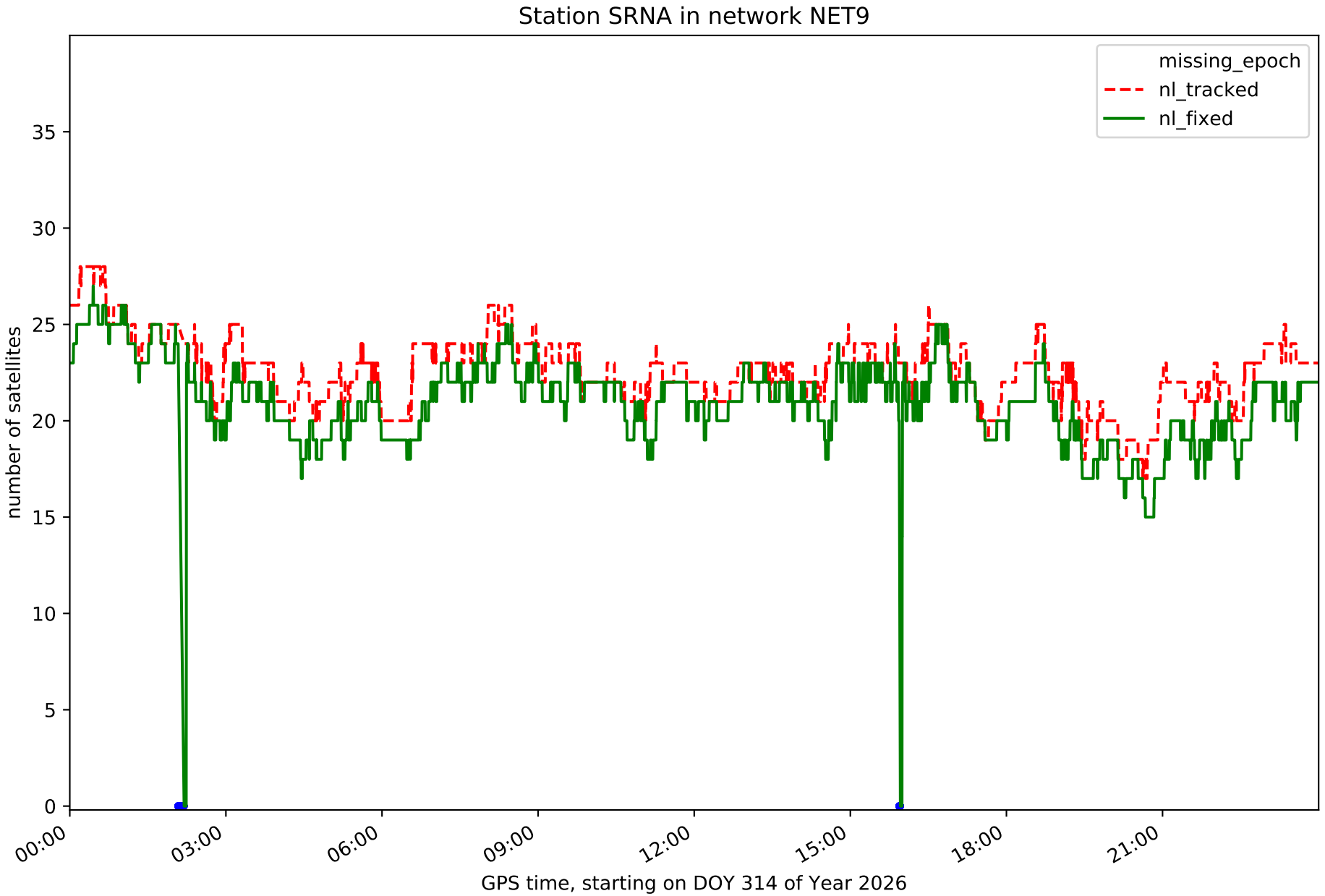

Station JACA in network NET9
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

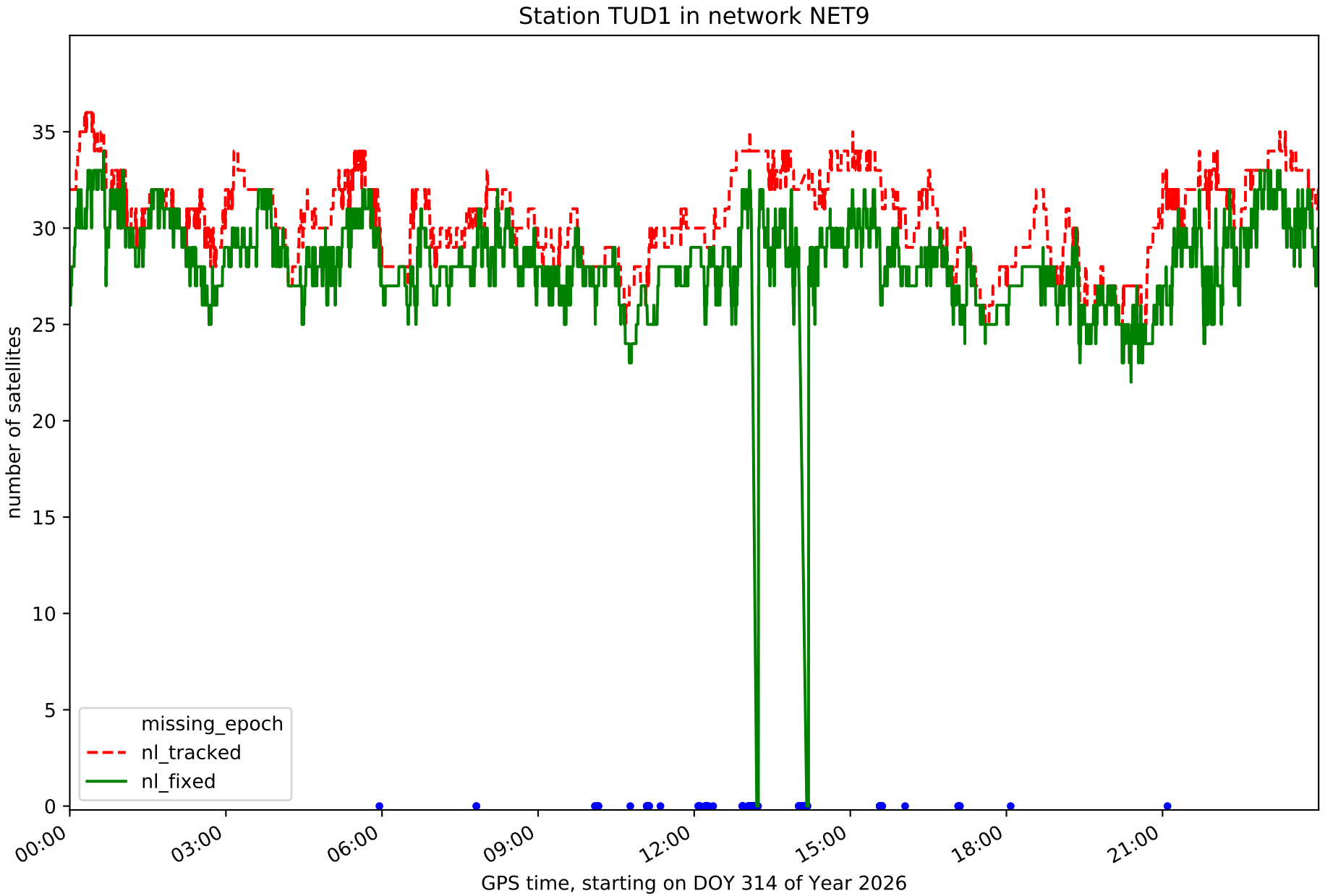

Station OSCA in network NET9
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

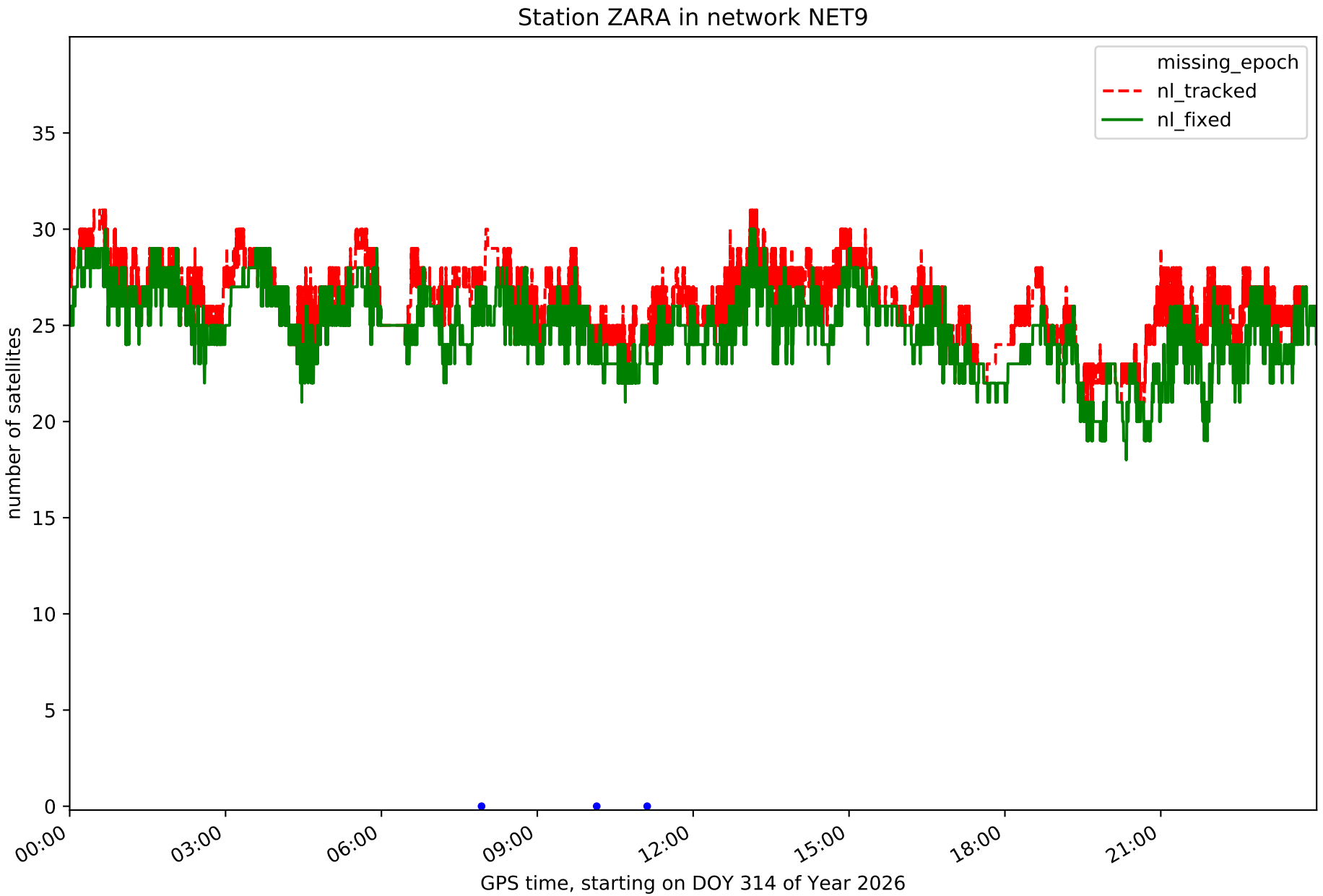

Station RONL in network NET9
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

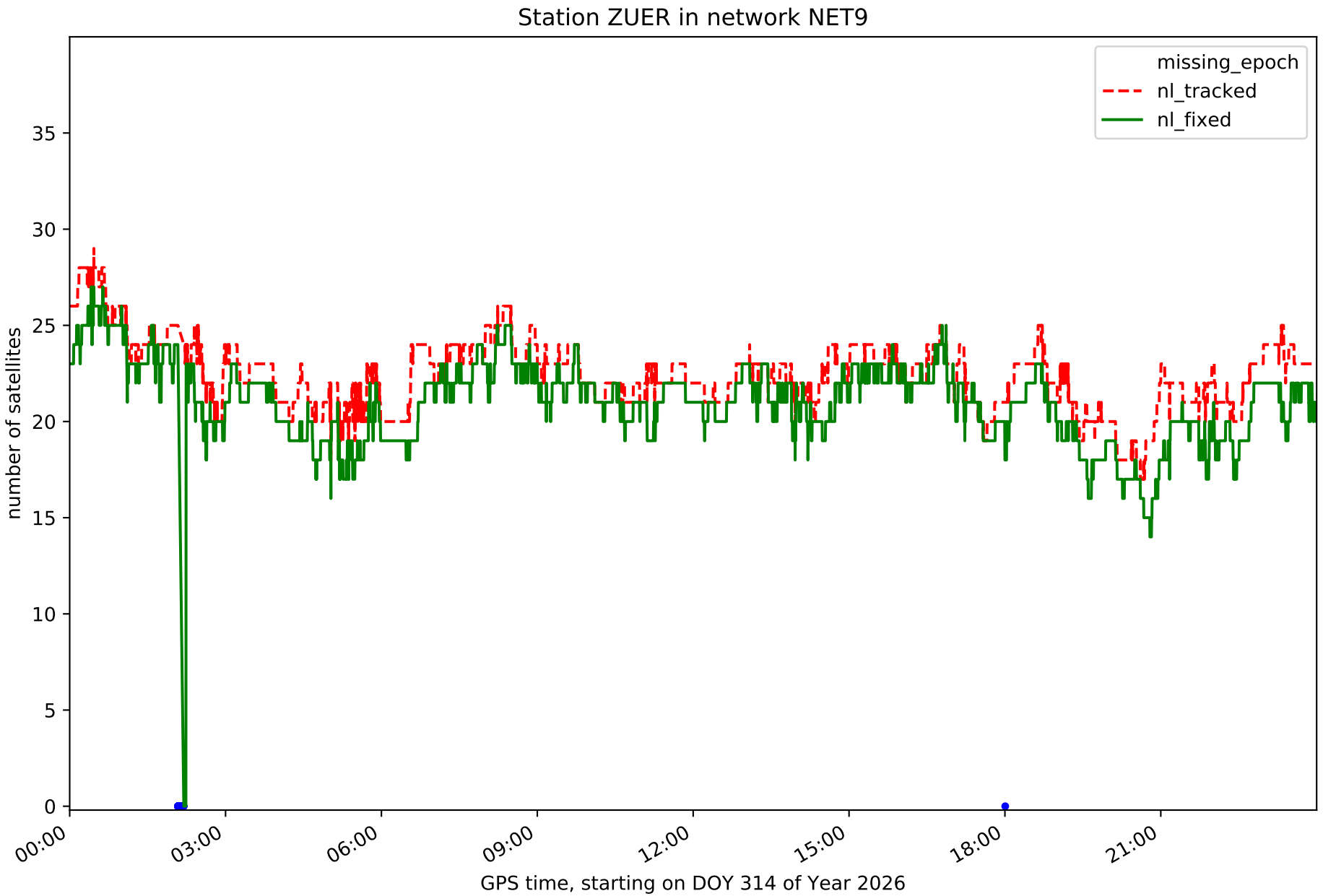

Station SABI in network NET9
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026
missing_epoch
nl_tracked
nl_fixed

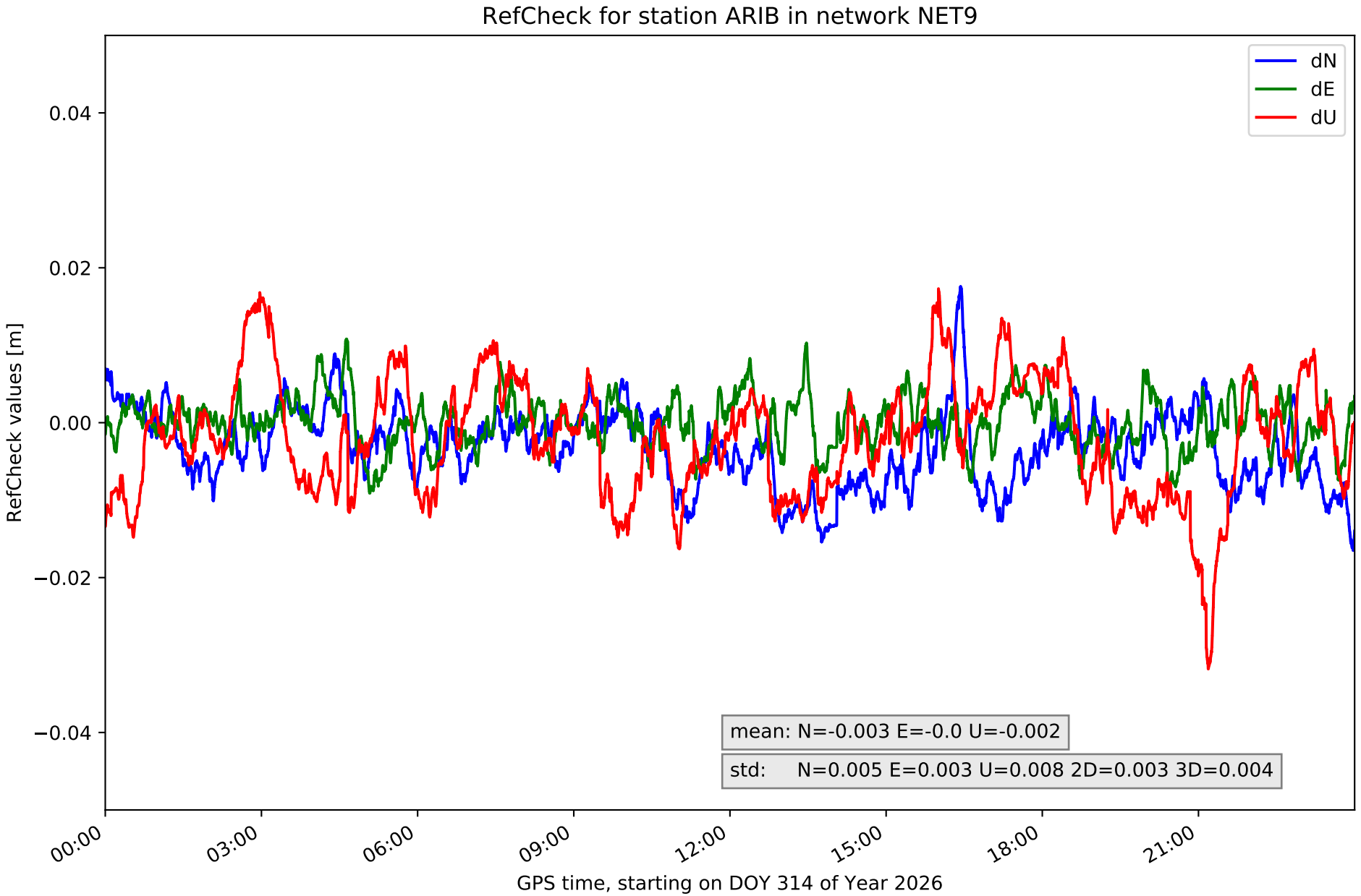

Station SANS in network NET9
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

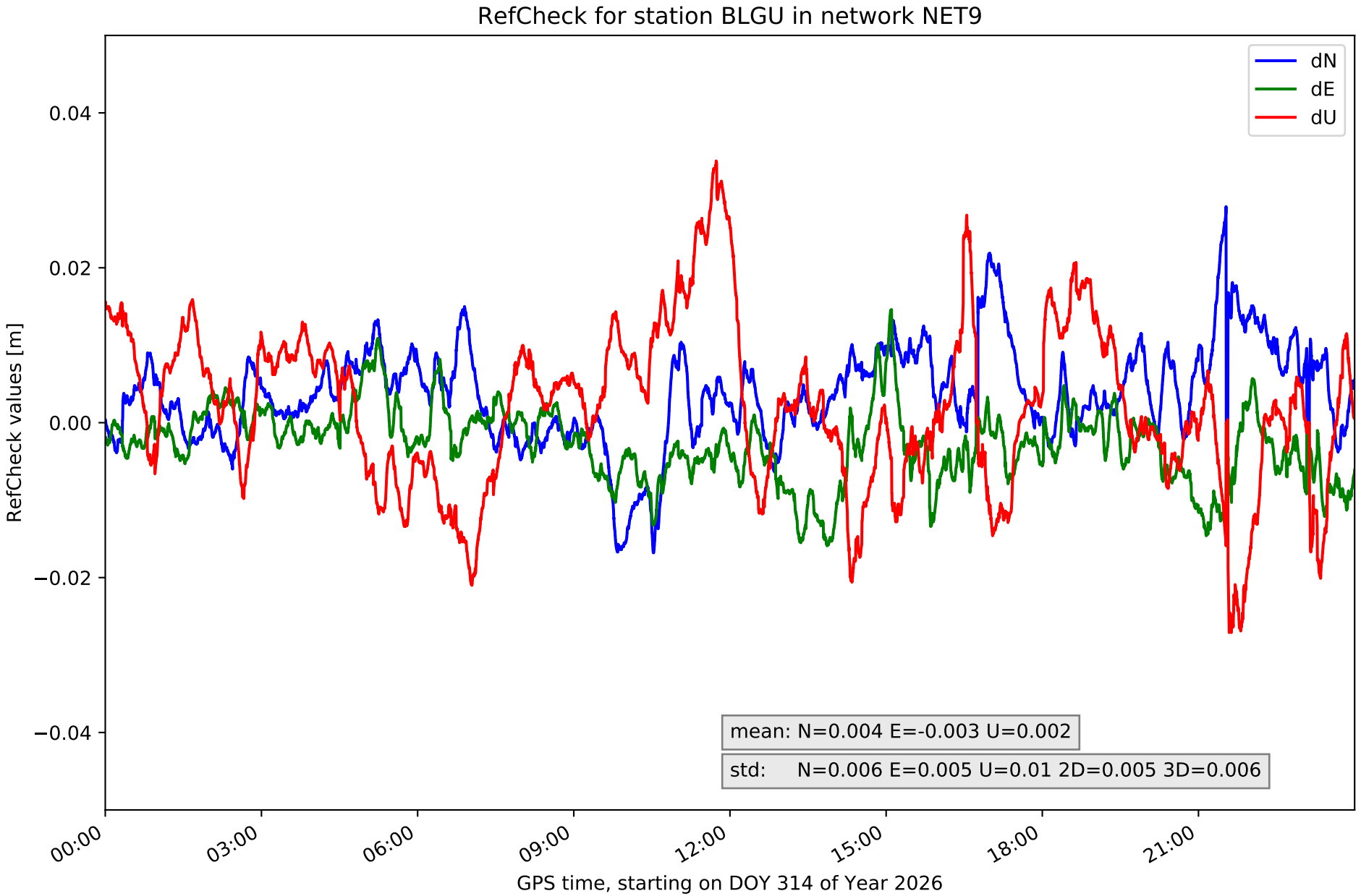

Station SRNA in network NET9
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

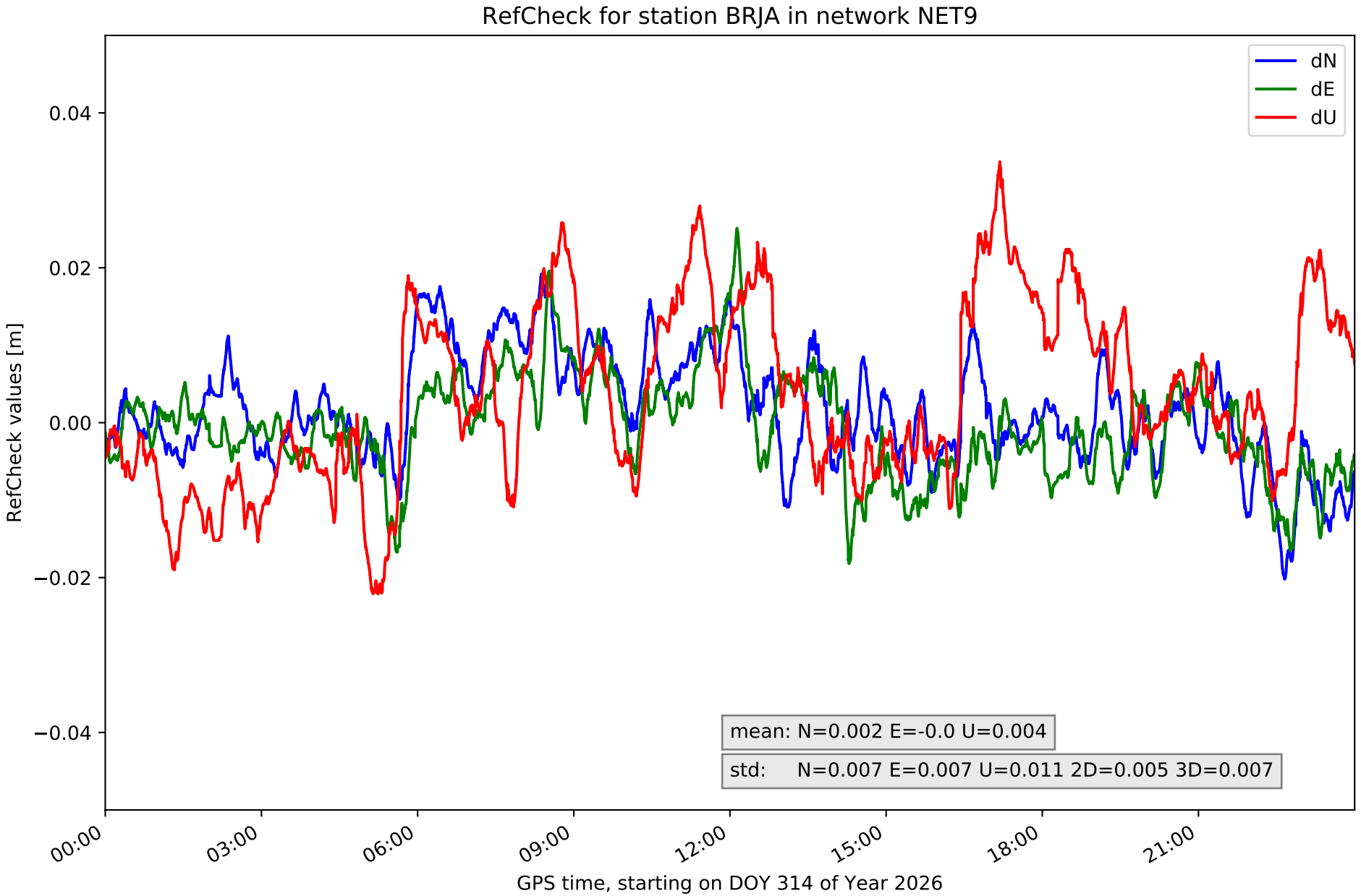

Station TUD1 in network NET9
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026
missing_epoch
nl_tracked
nl_fixed

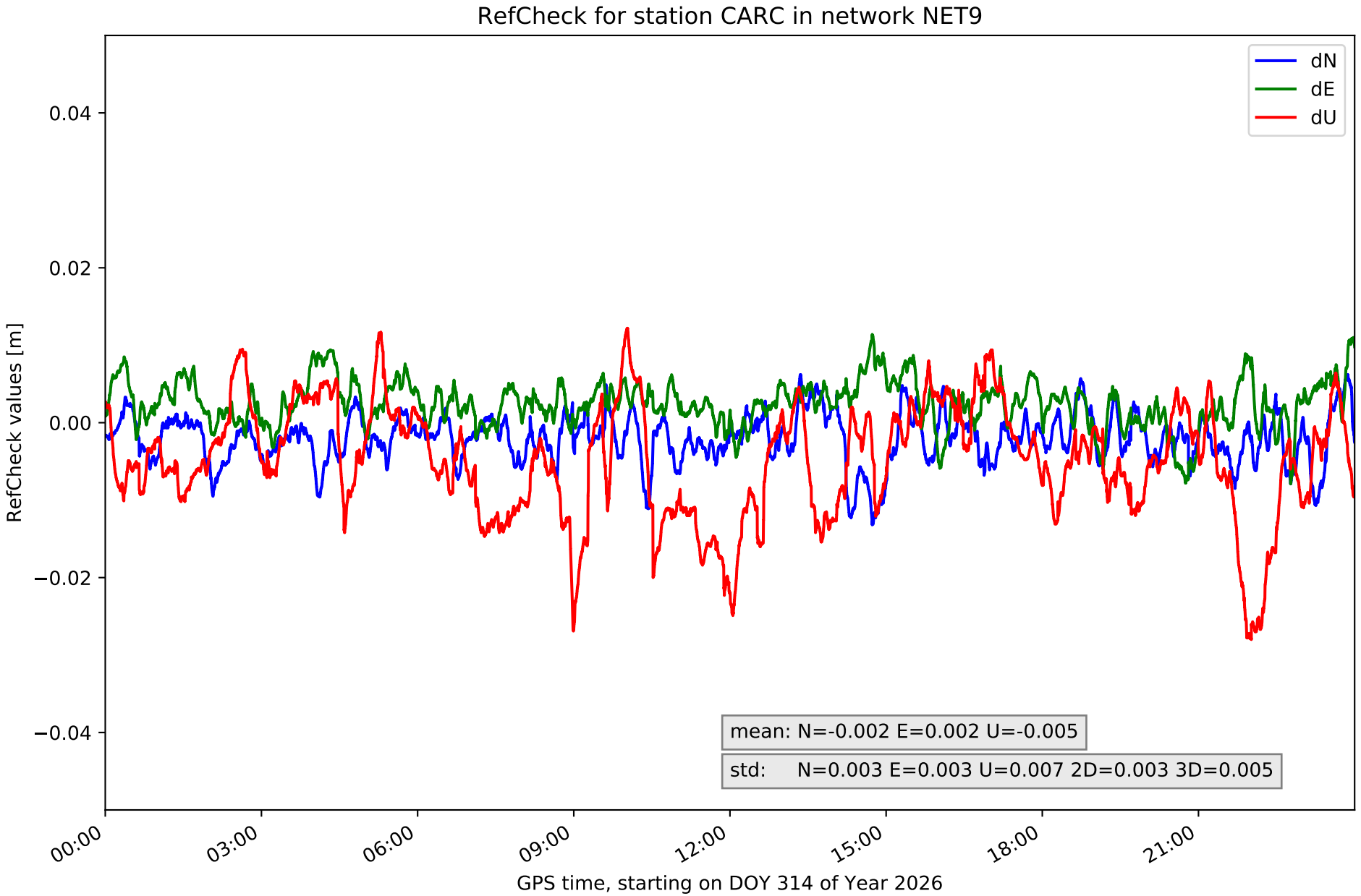

Station ZARA in network NET9
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

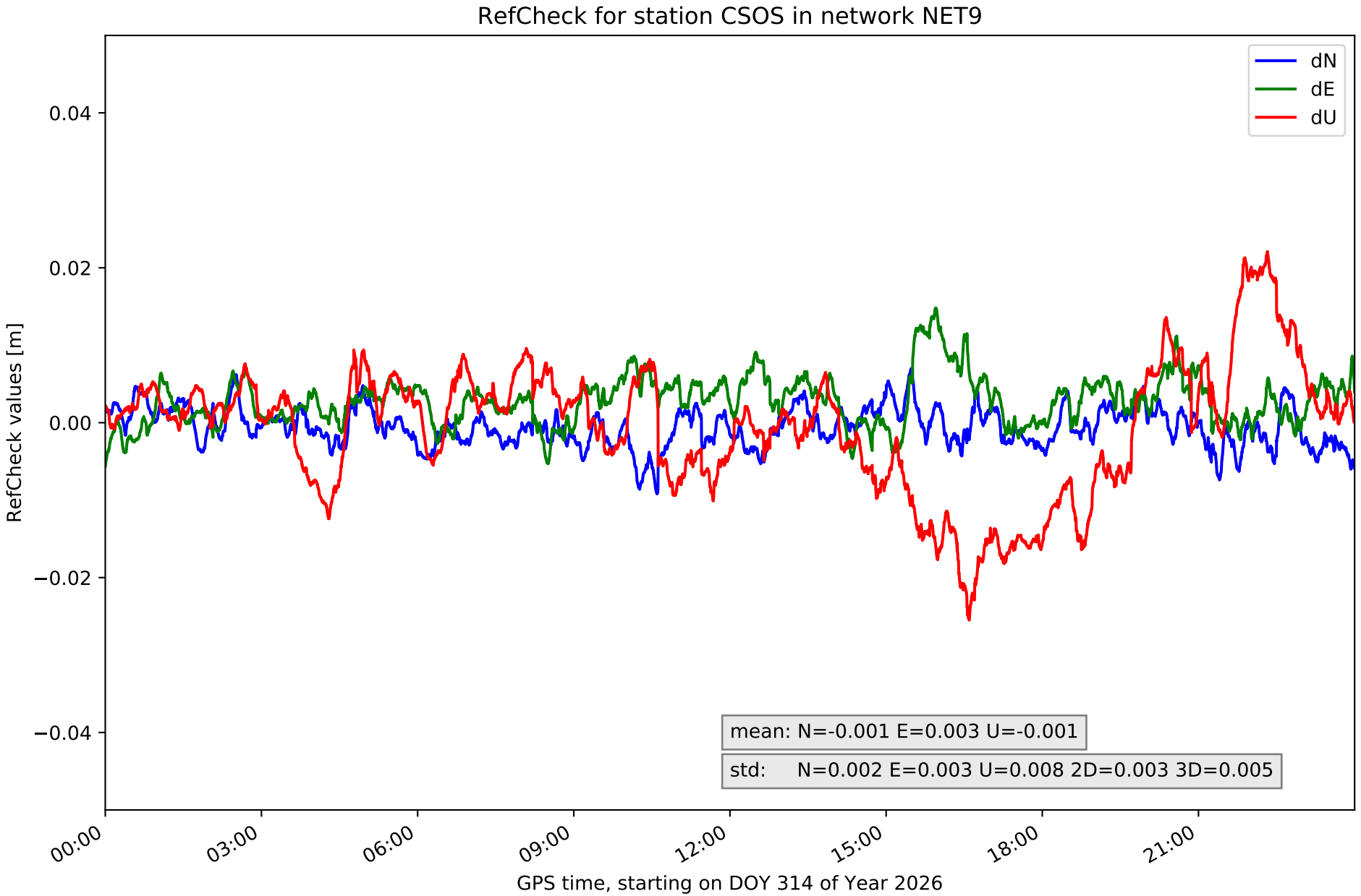

Station ZUER in network NET9
missing_epoch
nl_tracked
nl_fixed
number of satellites
0
5
10
15
20
25
30
35
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

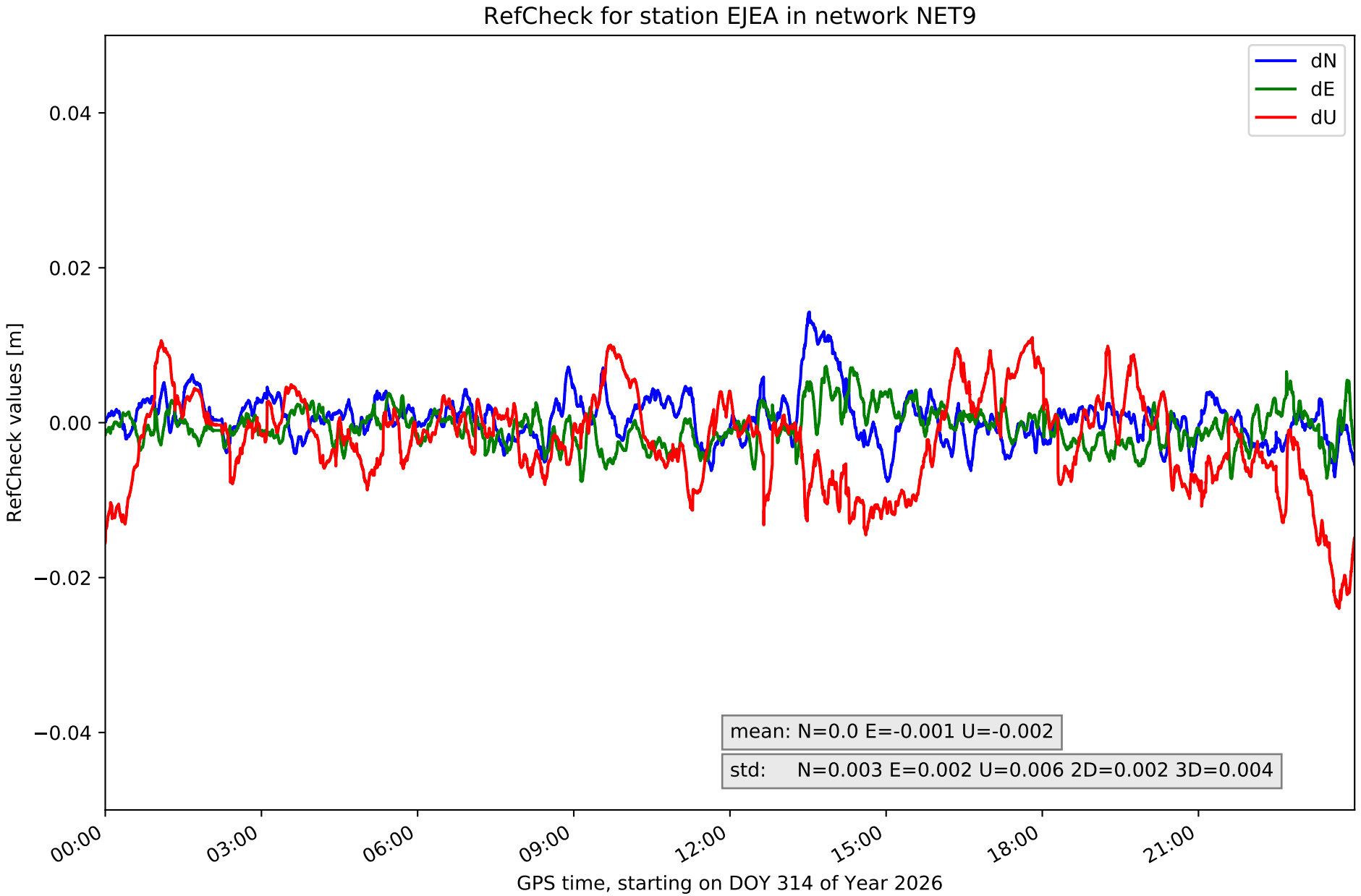

RefCheck for station ARIB in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.003 E=-0.0 U=-0.002
std: N=0.005 E=0.003 U=0.008 2D=0.003 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

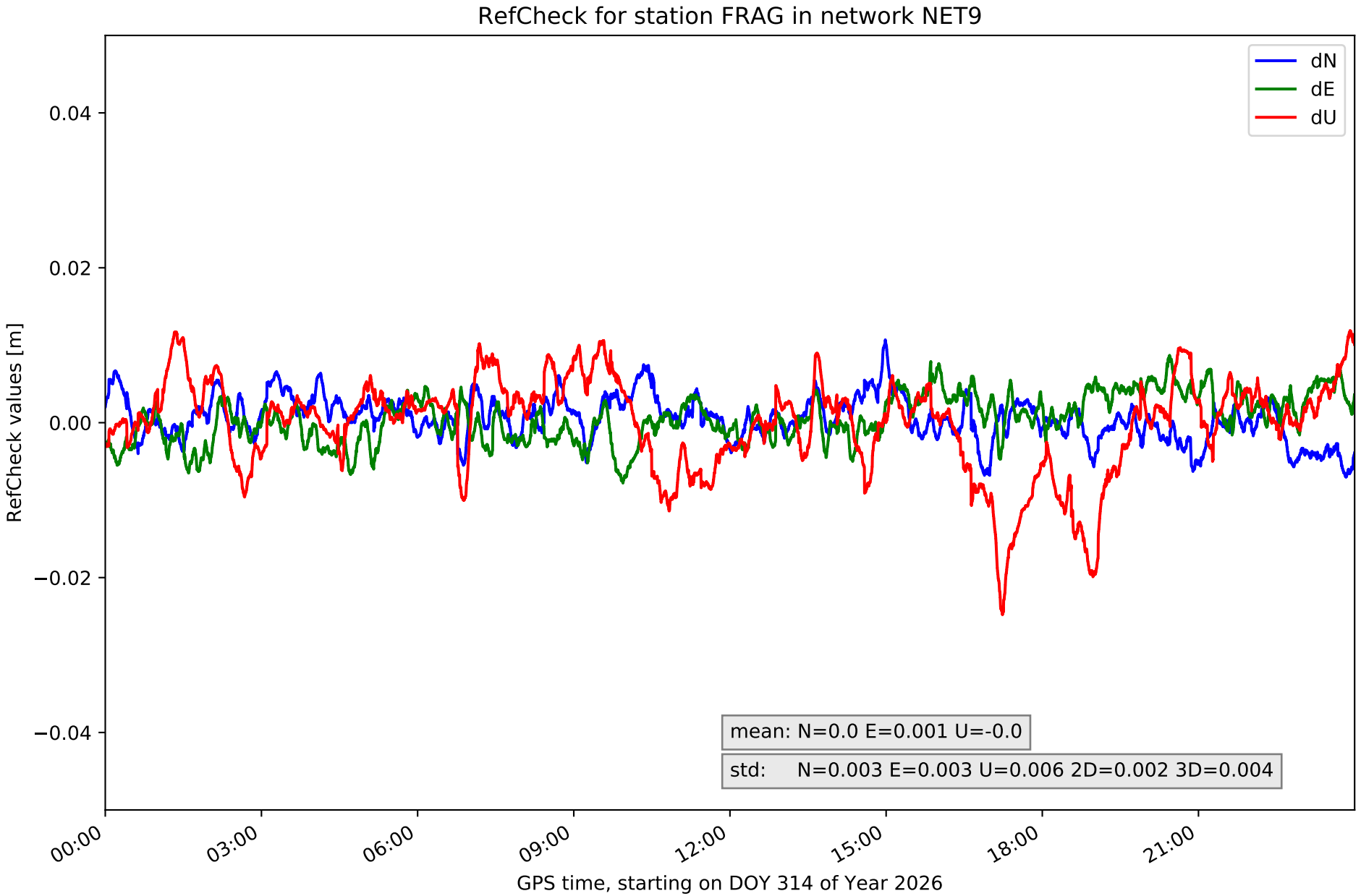

RefCheck for station BLGU in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.004 E=-0.003 U=0.002
std: N=0.006 E=0.005 U=0.01 2D=0.005 3D=0.006
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

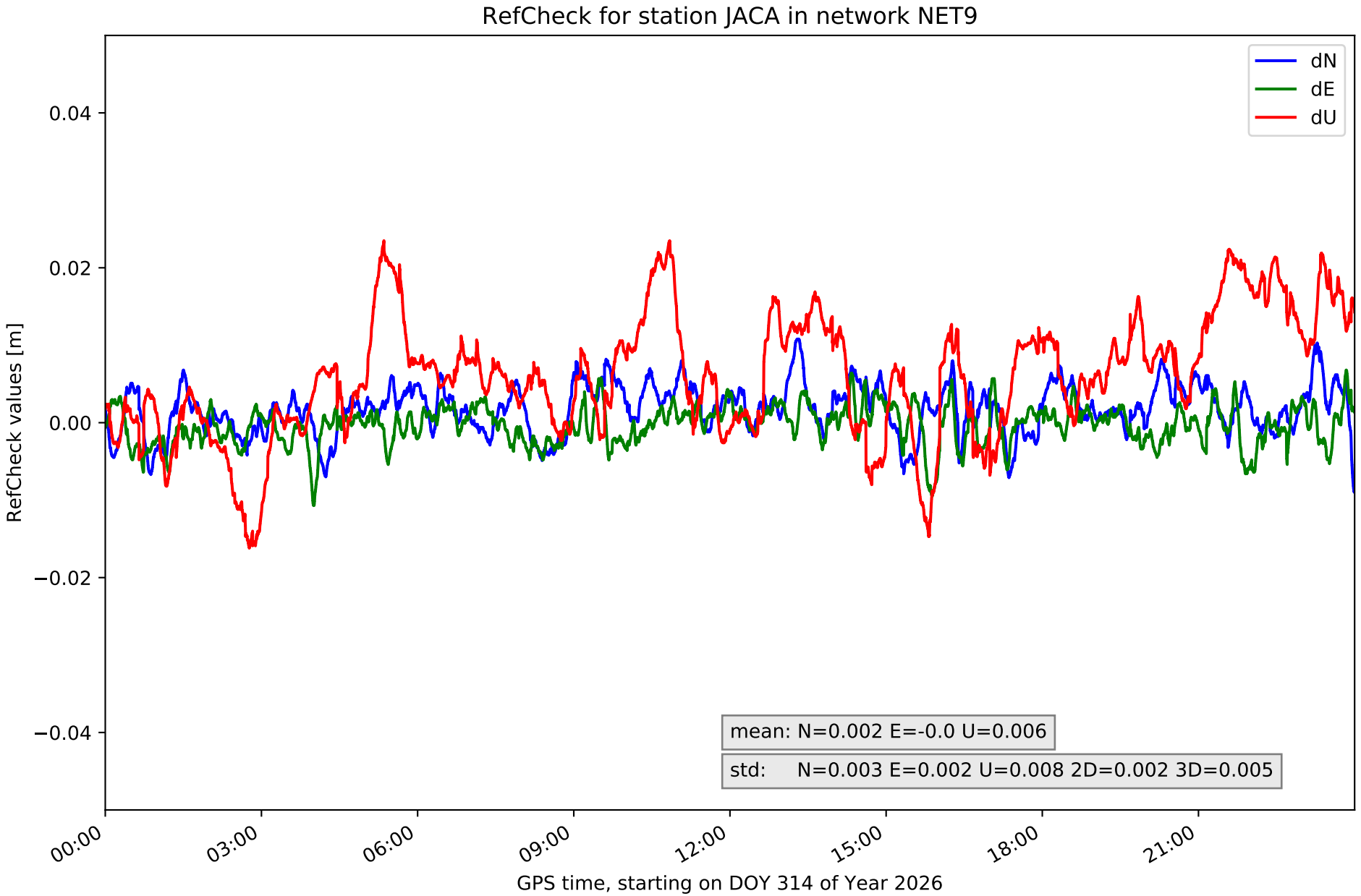

RefCheck for station BRJA in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.002 E=-0.0 U=0.004
std: N=0.007 E=0.007 U=0.011 2D=0.005 3D=0.007
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

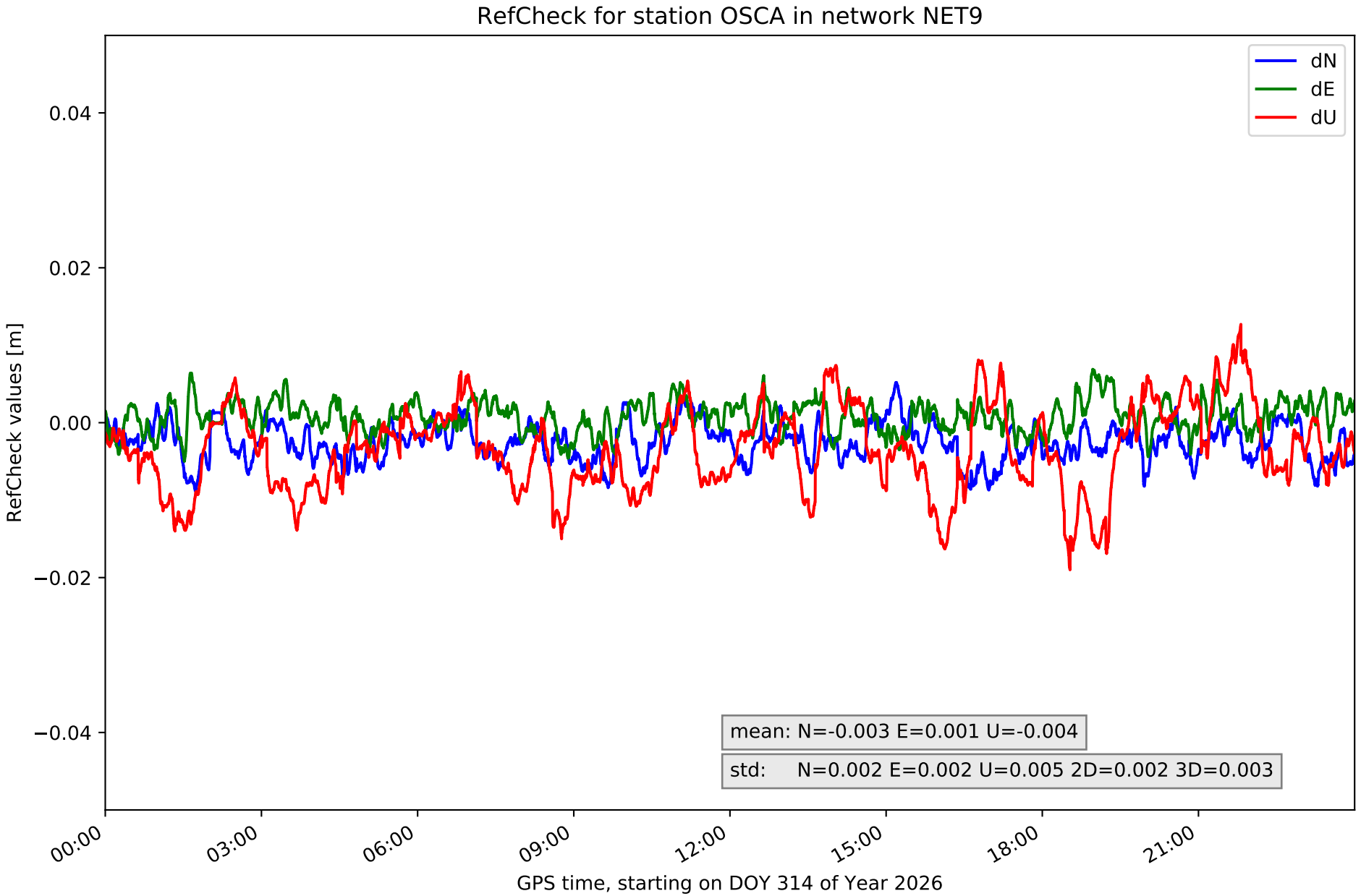

RefCheck for station CARC in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.002 E=0.002 U=-0.005
std: N=0.003 E=0.003 U=0.007 2D=0.003 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

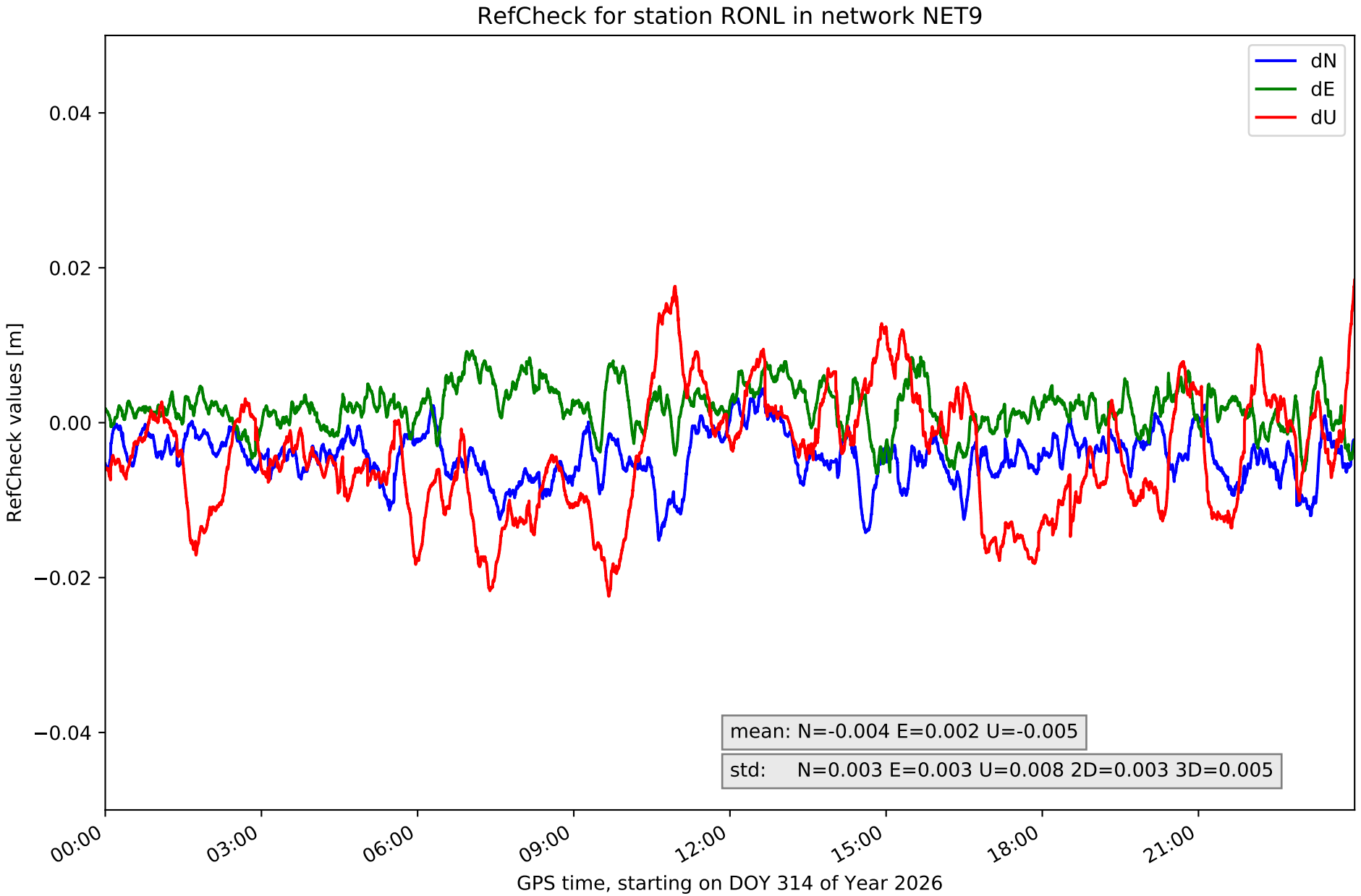

RefCheck for station CSOS in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.001 E=0.003 U=-0.001
std: N=0.002 E=0.003 U=0.008 2D=0.003 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

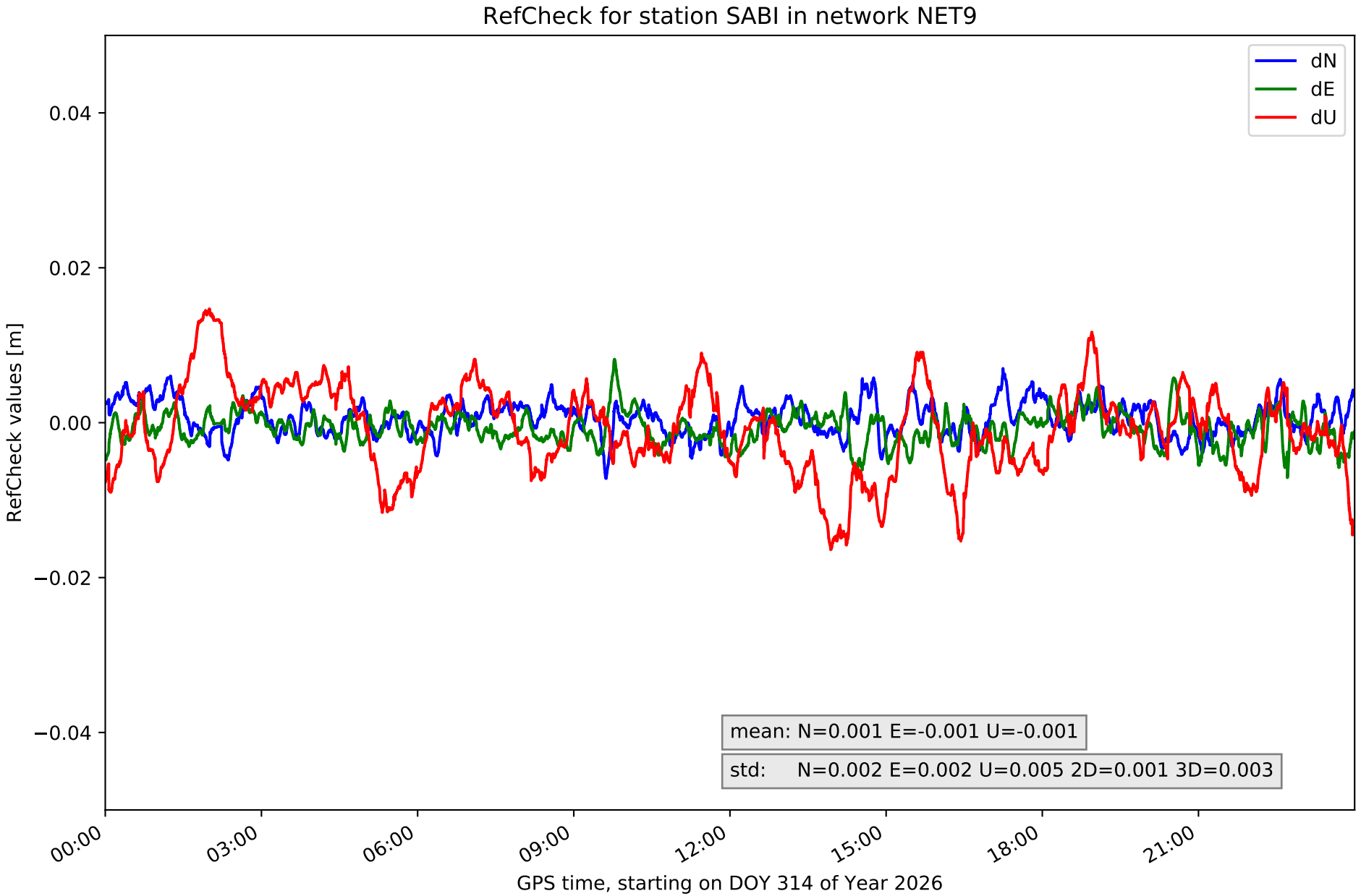

RefCheck for station EJEA in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.0 E=-0.001 U=-0.002
std: N=0.003 E=0.002 U=0.006 2D=0.002 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

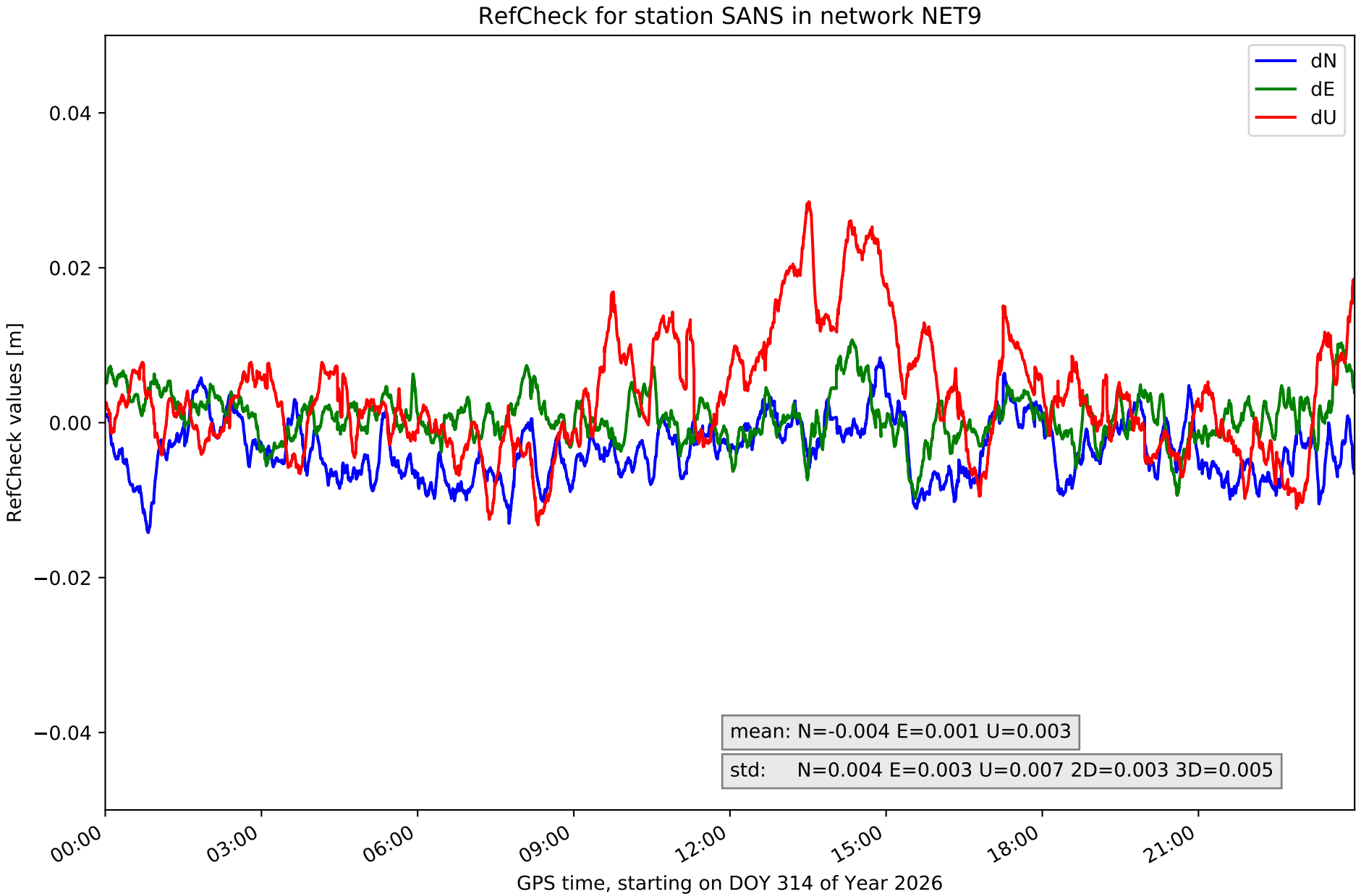

RefCheck for station FRAG in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.0 E=0.001 U=-0.0
std: N=0.003 E=0.003 U=0.006 2D=0.002 3D=0.004
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

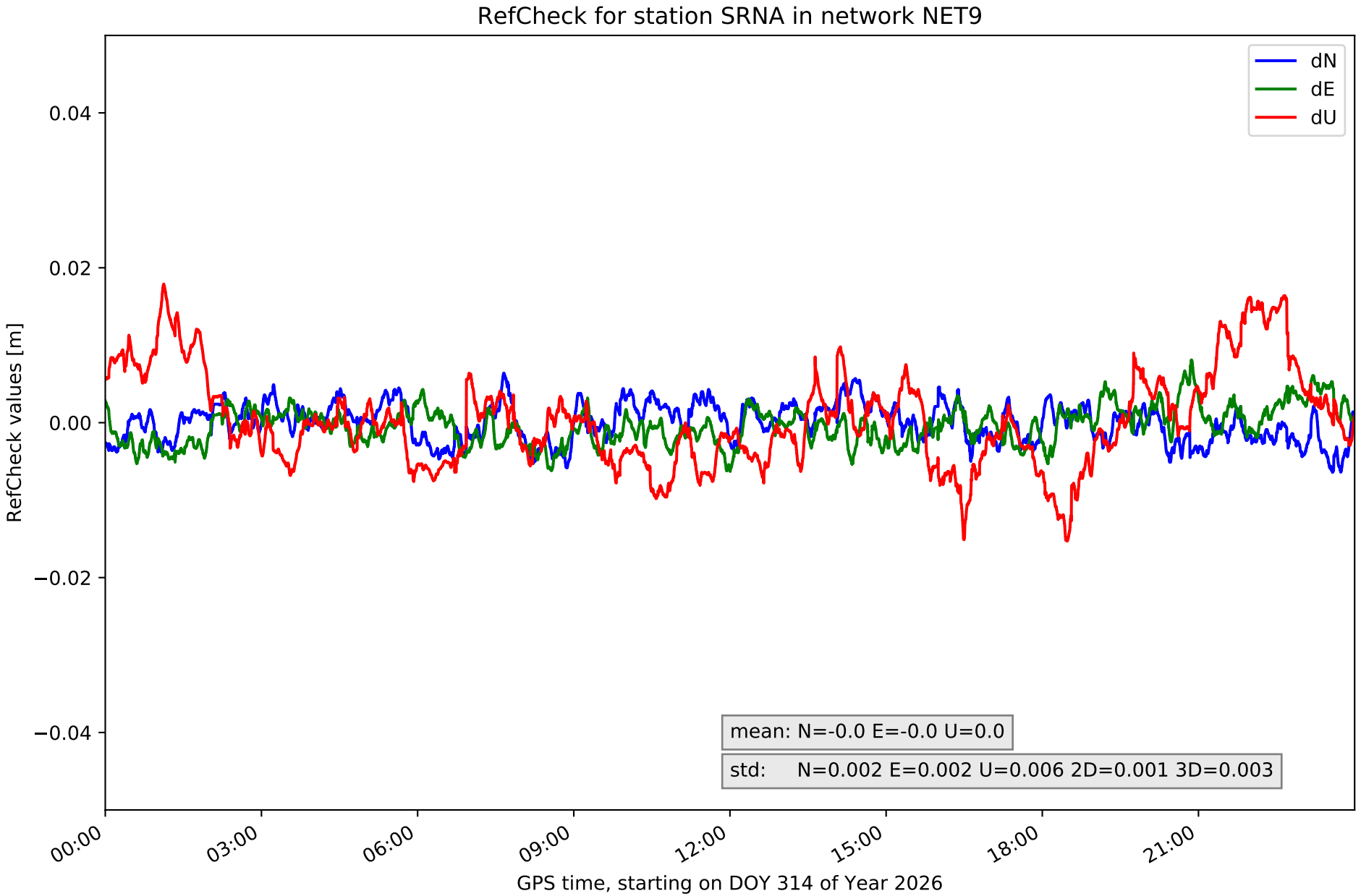

RefCheck for station JACA in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.002 E=-0.0 U=0.006
std: N=0.003 E=0.002 U=0.008 2D=0.002 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

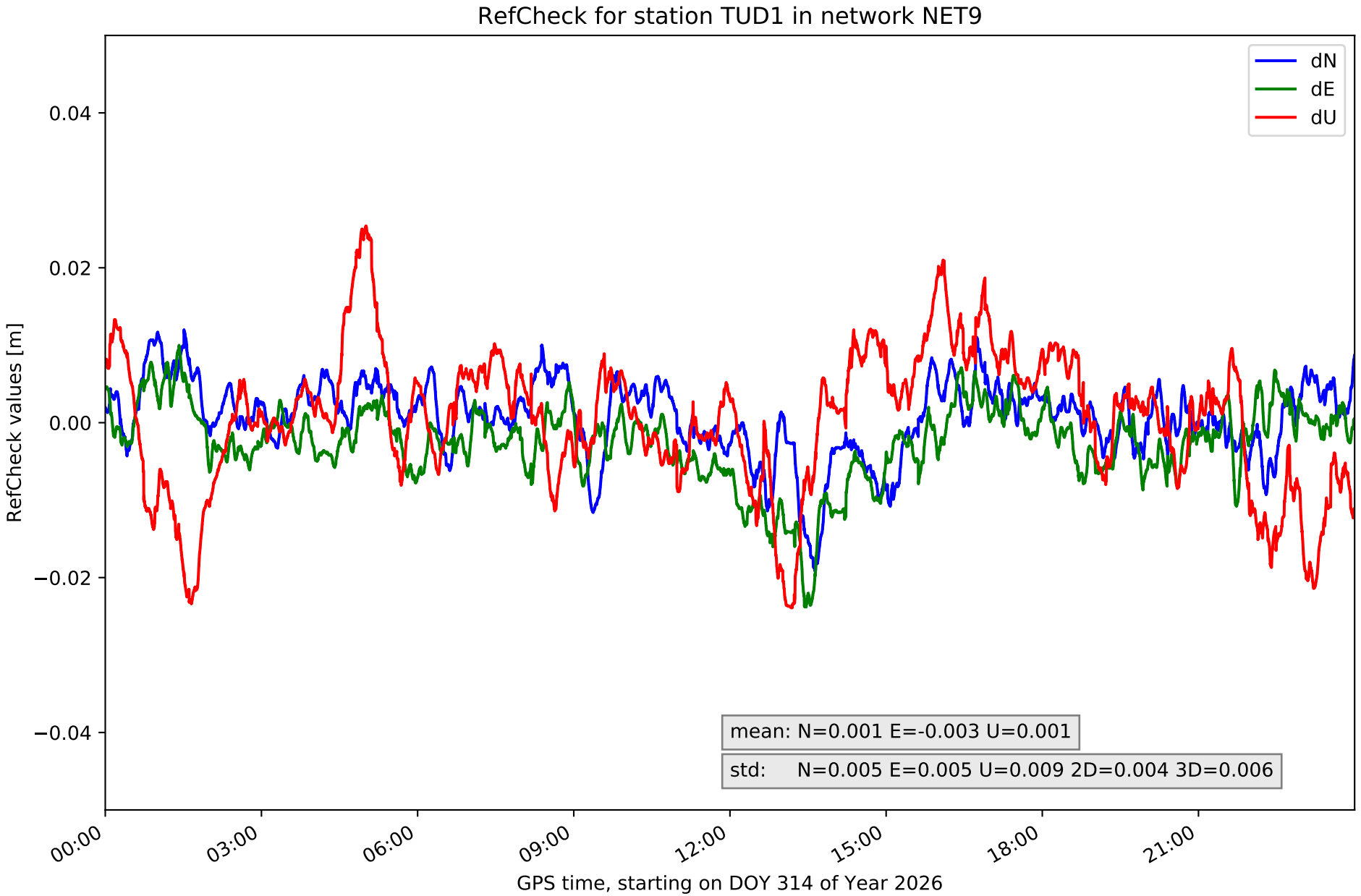

RefCheck for station OSCA in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.003 E=0.001 U=-0.004
std: N=0.002 E=0.002 U=0.005 2D=0.002 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

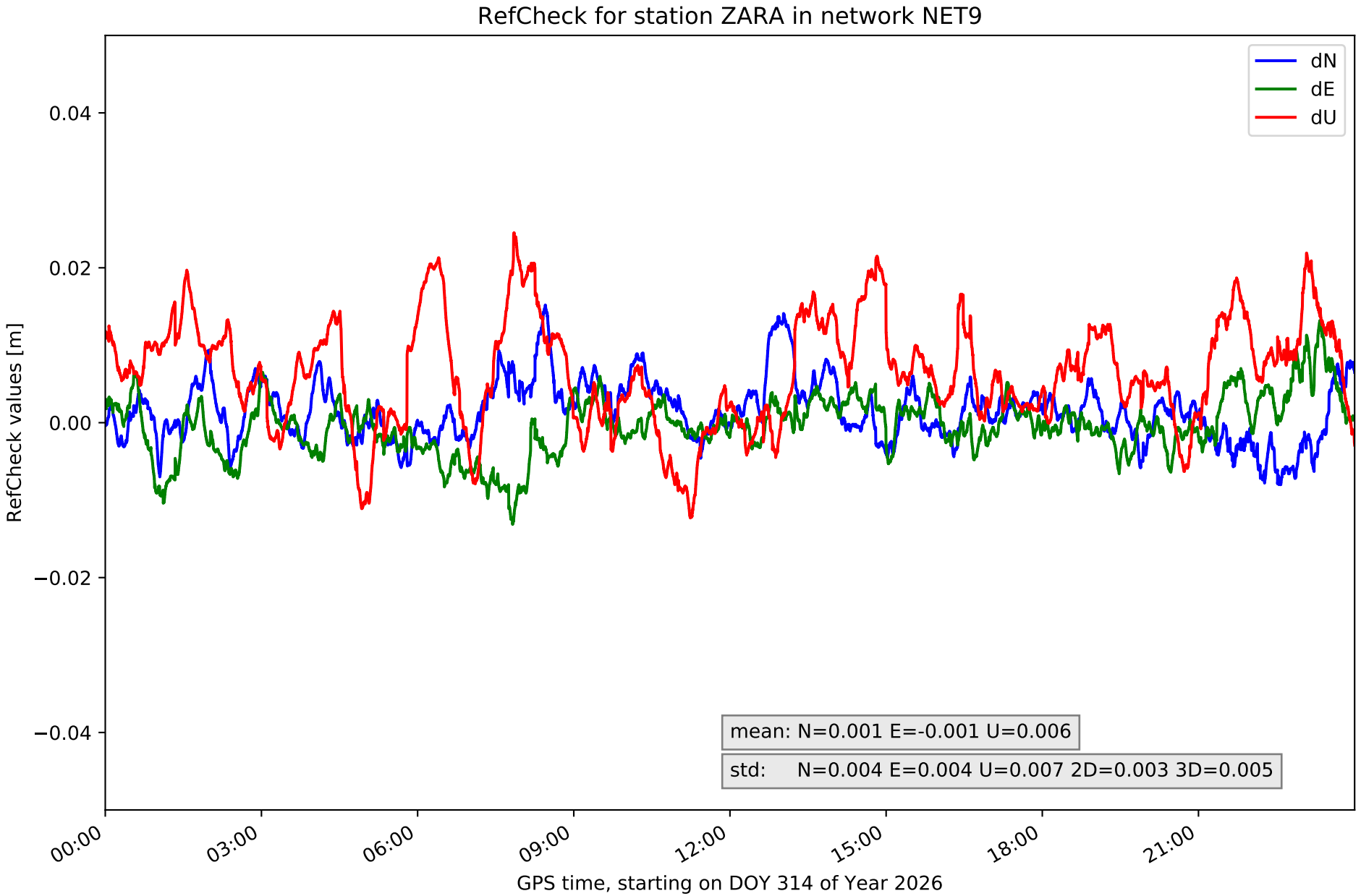

RefCheck for station RONL in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.004 E=0.002 U=-0.005
std: N=0.003 E=0.003 U=0.008 2D=0.003 3D=0.005
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026

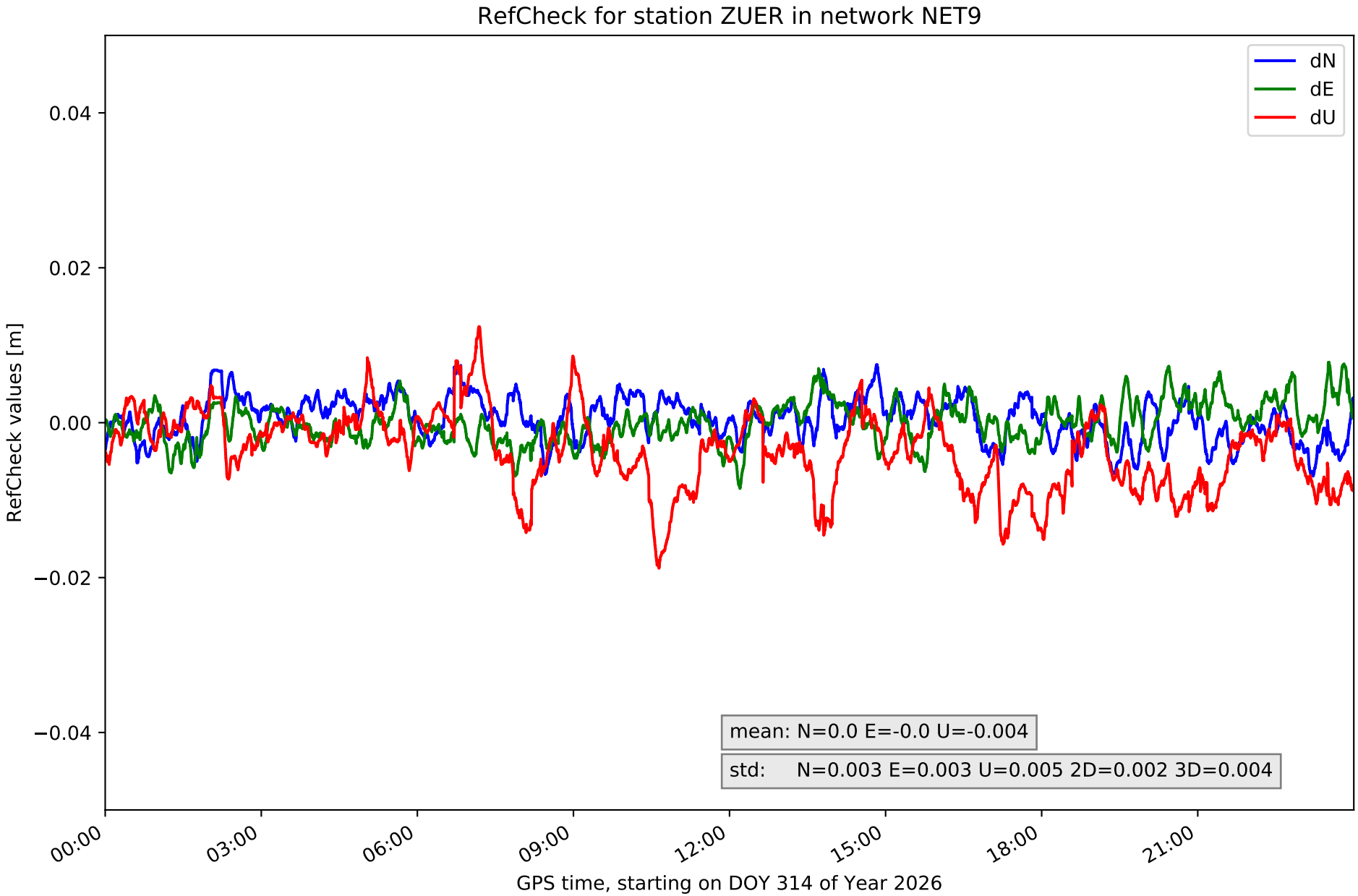

RefCheck for station SABI in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=-0.001 U=-0.001
std: N=0.002 E=0.002 U=0.005 2D=0.001 3D=0.003
00:00
03:00
06:00
09:00
12:00
15:00
18:00
21:00
GPS time, starting on DOY 314 of Year 2026


RefCheck for station SANS in network NET9
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=0.004 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 314 of Year 2026


RefCheck for station SRNA in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=-0.0 E=-0.0 U=0.0
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 314 of Year 2026


RefCheck for station TUD1 in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.001 E=-0.003 U=0.001
std: N=0.005 E=0.005 U=0.009 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 314 of Year 2026


RefCheck for station ZARA in network NET9
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=0.004 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 314 of Year 2026


RefCheck for station ZUER in network NET9
dN
dE
dU
0.04
0.02
0.00
−0.02
−0.04
RefCheck values [m]
mean: N=0.0 E=-0.0 U=-0.004
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 314 of Year 2026

RefCheck values for network NET9

Station	Nmin	Nmax	Nstd	Emin	Emax	Estd	Umin	Umax	Ustd	std2D	std3D	#2D > 0.01	% 2D > 0.01	#3D > 0.02	% 3D > 0.02
ARIB	-0.017	0.018	0.005	-0.009	0.011	0.003	**-0.032**	0.017	0.008	0.003	0.004	8301	11.8	797	1.1
BLGU	-0.017	**0.028**	0.006	-0.016	0.015	0.005	-0.027	**0.034**	0.01	**0.005**	0.006	20536	29.1	8907	12.6
BRJA	**-0.02**	0.019	**0.007**	-0.018	**0.025**	**0.007**	-0.022	**0.034**	**0.011**	**0.005**	**0.007**	**23805**	**33.8**	**14854**	**21.1**
CARC	-0.013	0.006	0.003	-0.008	0.011	0.003	-0.028	0.012	0.007	0.003	0.005	3144	4.5	2709	3.8
CSOS	-0.009	0.007	0.002	-0.006	0.015	0.003	-0.025	0.022	0.008	0.003	0.005	2410	3.4	2198	3.1
EJEA	-0.008	0.014	0.003	-0.008	0.007	0.002	-0.024	0.011	0.006	0.002	0.004	1460	2.1	915	1.3
FRAG	-0.007	0.011	0.003	-0.008	0.009	0.003	-0.025	0.012	0.006	0.002	0.004	106	0.2	955	1.4
JACA	-0.009	0.011	0.003	-0.011	0.007	0.002	-0.016	0.024	0.008	0.002	0.005	466	0.7	4169	5.9
OSCA	-0.009	0.005	0.002	-0.005	0.007	0.002	-0.019	0.013	0.005	0.002	0.003	0	0.0	0	0.0
RONL	-0.015	0.004	0.003	-0.007	0.009	0.003	-0.022	0.018	0.008	0.003	0.005	6656	9.4	2173	3.1
SABI	-0.007	0.007	0.002	-0.007	0.008	0.002	-0.016	0.015	0.005	0.001	0.003	0	0.0	0	0.0
SANS	-0.014	0.008	0.004	-0.01	0.011	0.003	-0.013	0.029	0.007	0.003	0.005	2991	4.2	2814	4.0
SRNA	-0.006	0.006	0.002	-0.006	0.008	0.002	-0.015	0.018	0.006	0.001	0.003	0	0.0	0	0.0
TUD1	-0.019	0.012	0.005	**-0.024**	0.01	0.005	-0.024	0.025	0.009	0.004	0.006	8814	12.5	5206	7.4
ZARA	-0.008	0.015	0.004	-0.013	0.013	0.004	-0.012	0.025	0.007	0.003	0.005	4095	5.8	2868	4.1
ZUER	-0.007	0.007	0.003	-0.009	0.008	0.003	-0.019	0.012	0.005	0.002	0.004	0	0.0	0	0.0
Mean	**-0.012**	**0.011**	**0.004**	**-0.01**	**0.011**	**0.003**	**-0.021**	**0.02**	**0.007**	**0.003**	**0.005**	**5174.0**	**7.3**	**3035.3**	**4.3**
Min/Max	**-0.02**	**0.028**	**0.007**	**-0.024**	**0.025**	**0.007**	**-0.032**	**0.034**	**0.011**	**0.005**	**0.007**	**23805**	**33.8**	**14854**	**21.1**

fixing statistic for network NET9

fixing percentage of	all GNSS	G	R	E	C
using threshold 0.3	94.9	95.7	94.7	96.5	92.6
considering satellites with dual-frequency fixed	92.9	93.7	92.9	94.7	89.0
considering all signals separately	92.9	93.8	92.9	94.9	87.0