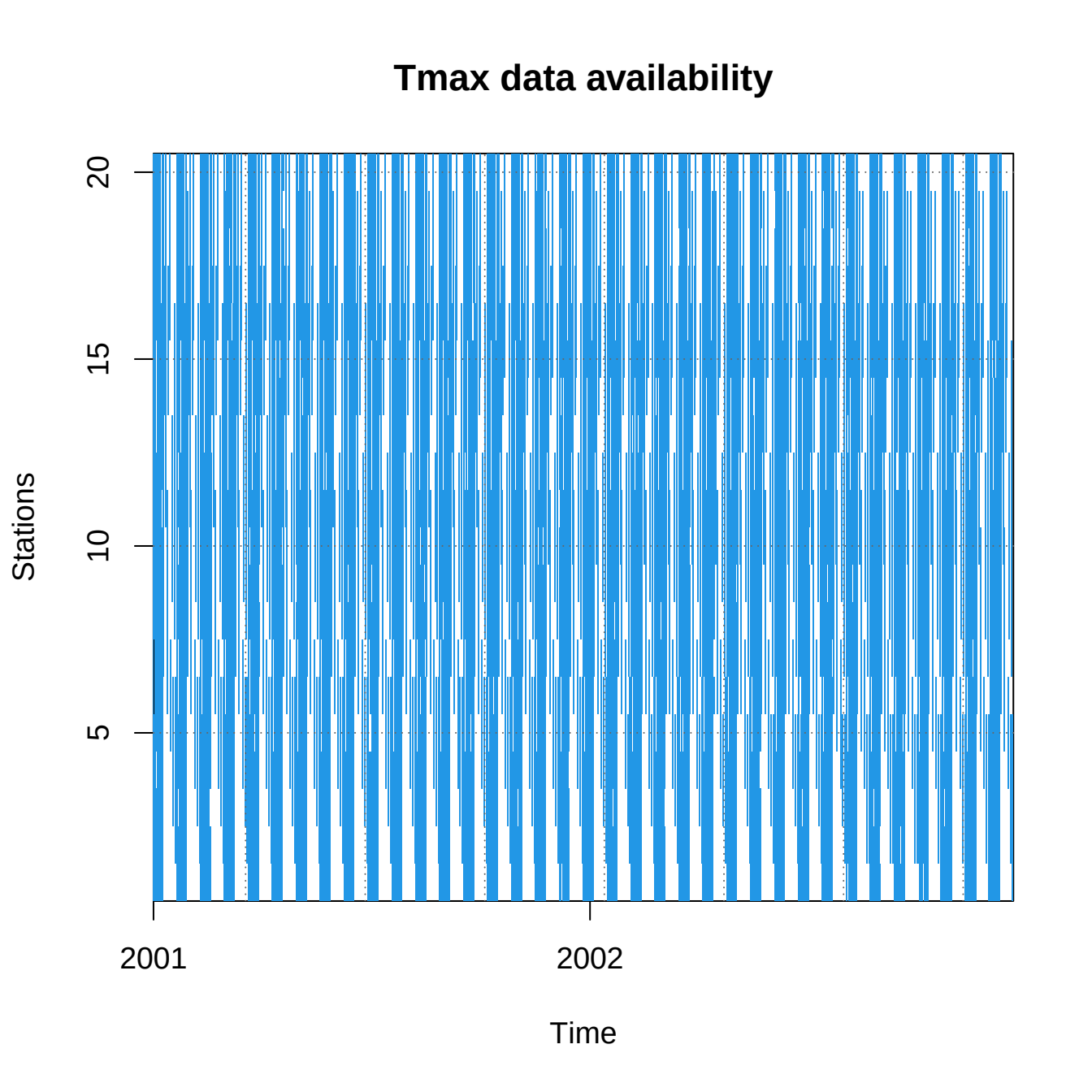
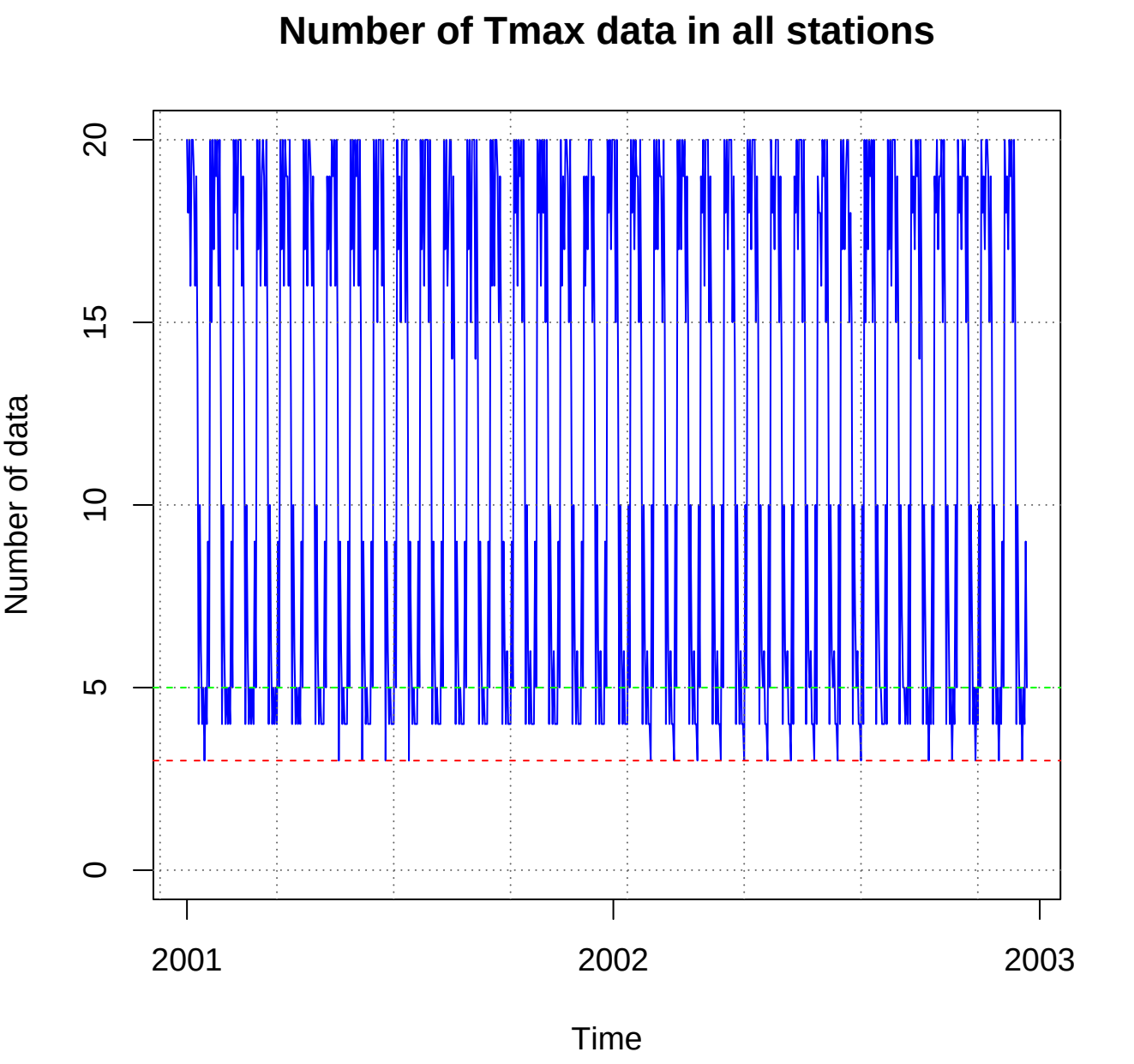
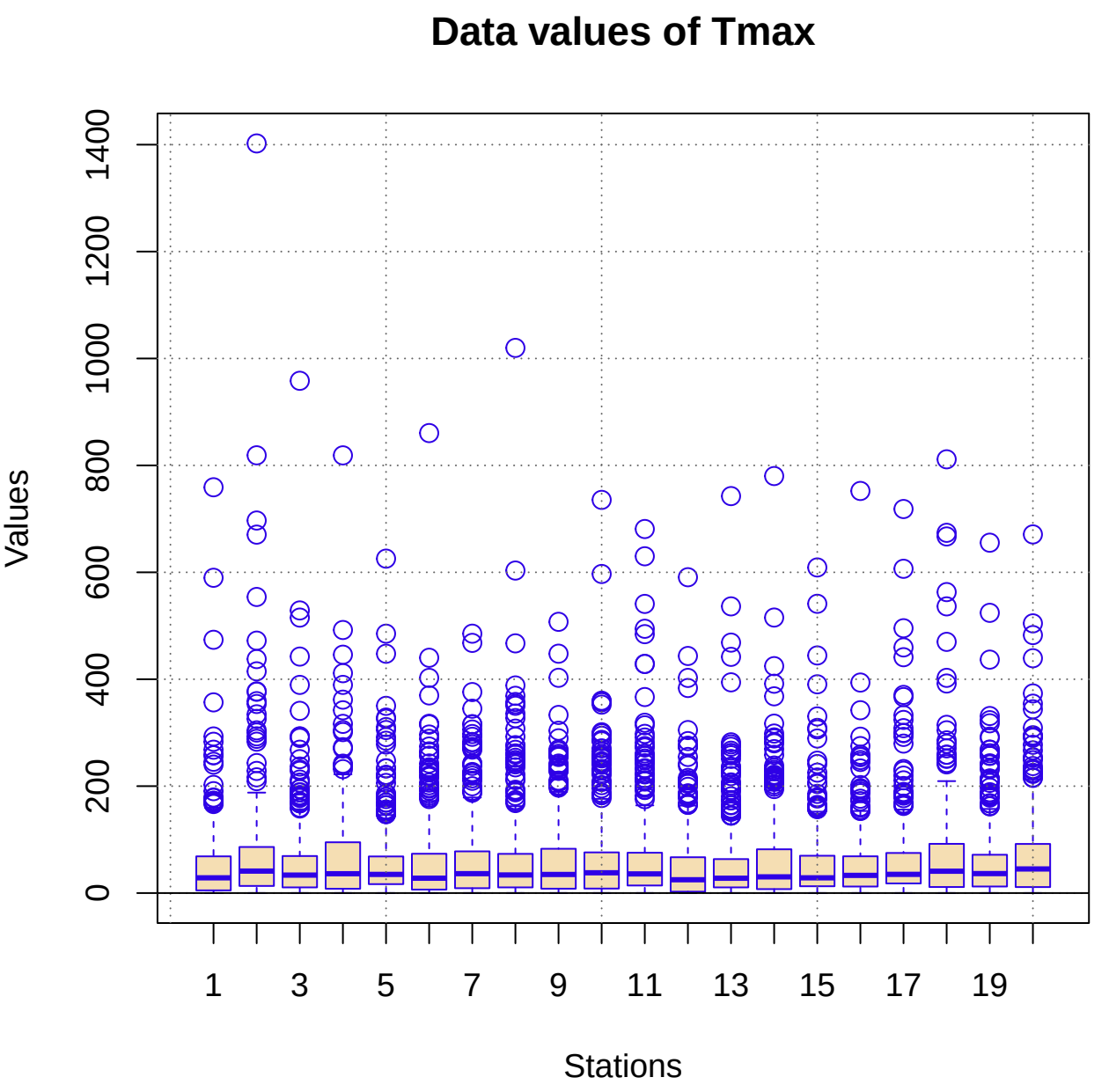
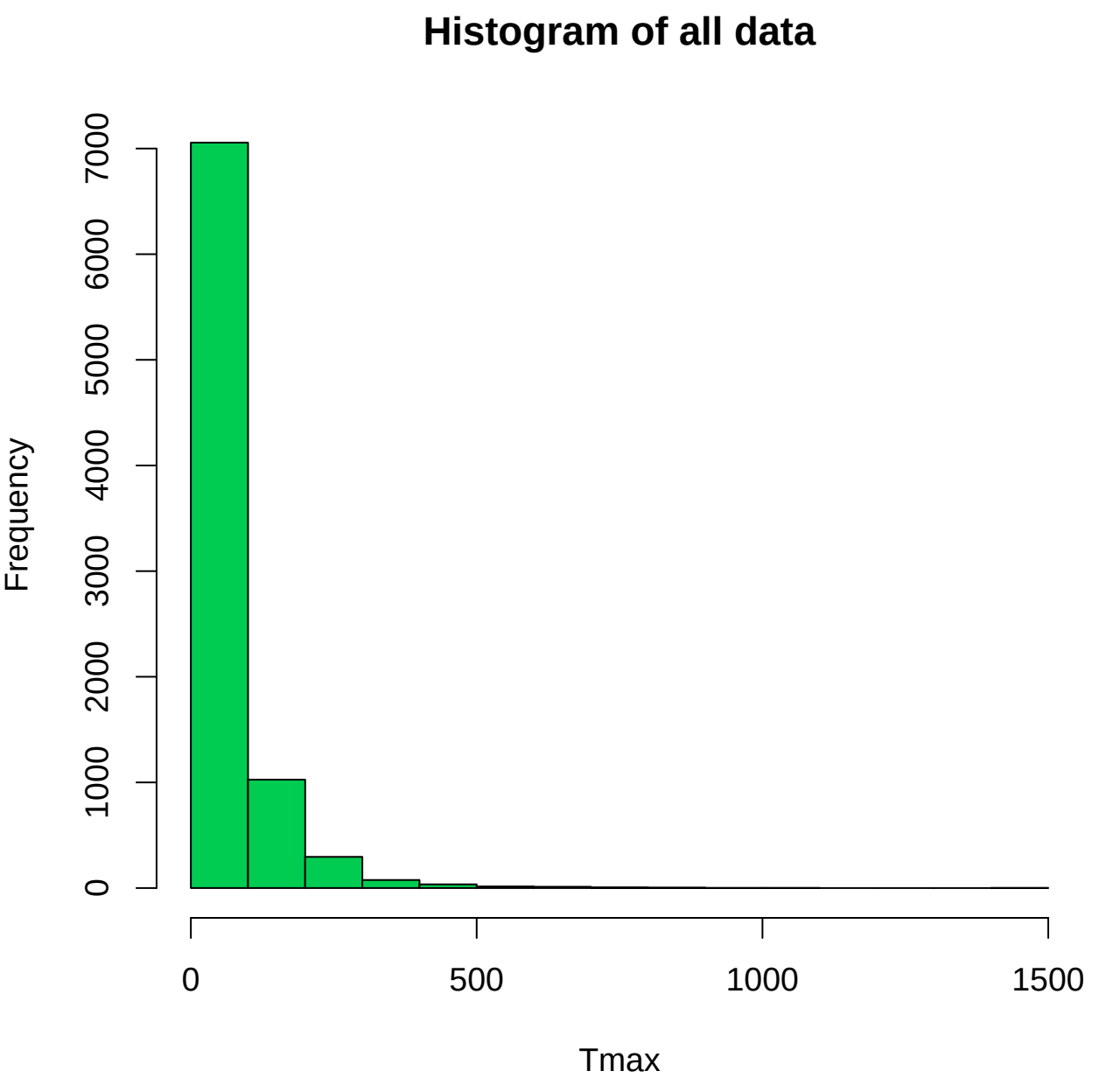
CLIMATOL 3.1.1

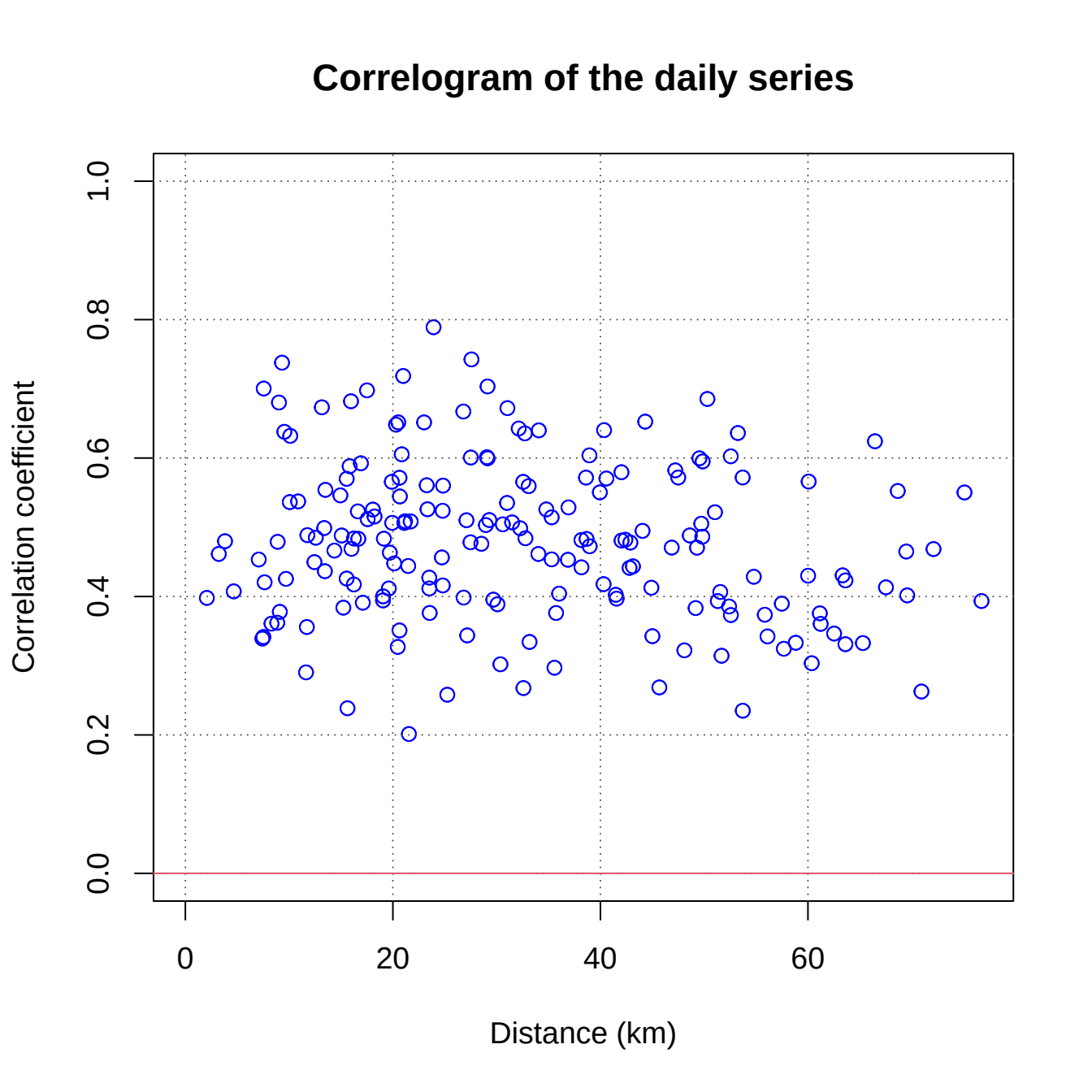
Homogenization
graphic output of
Tmax
2001−2003

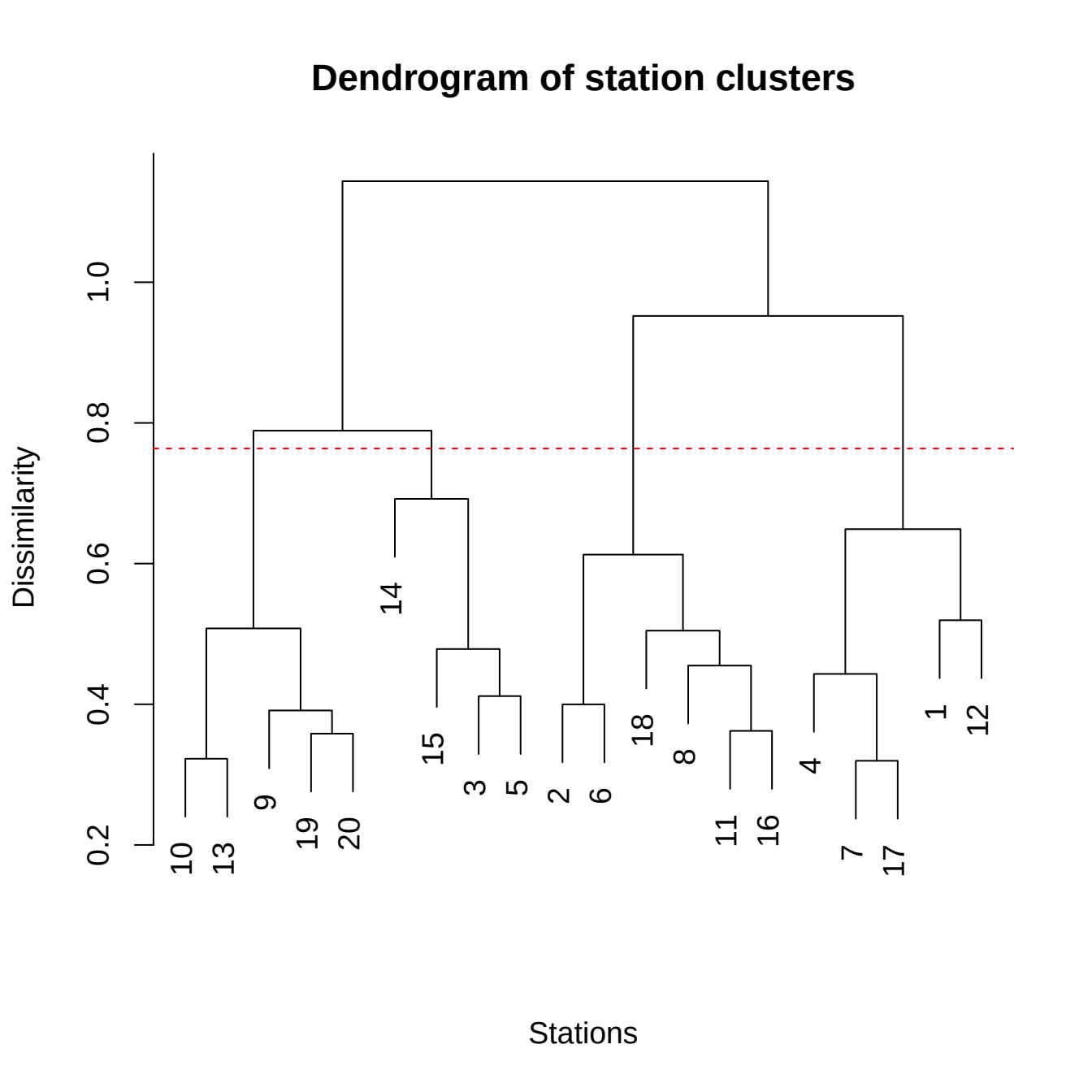

Tmax data availability
Stations
5
10
15
20
2001
2002
Time

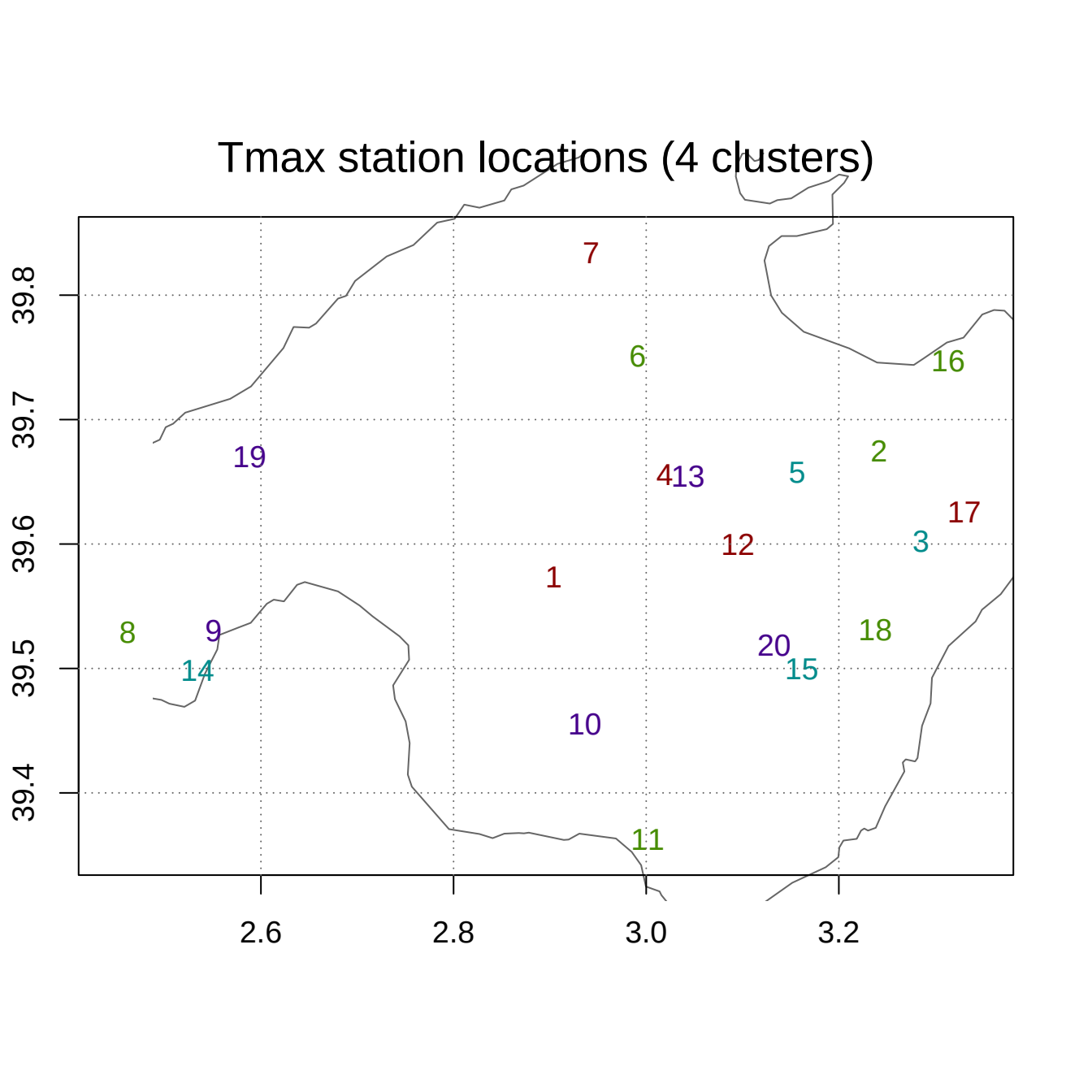

Number of Tmax data in all stations
Number of data
0
5
10
15
20
2001
2002
2003
Time


Data values of Tmax
Values
0
200
400
600
800
1000
1200
1400
1
3
5
7
9
11
13
15
17
19
Stations


Histogram of all data
Frequency
0
1000
2000
3000
4000
5000
6000
7000
0
500
1000
1500
Tmax

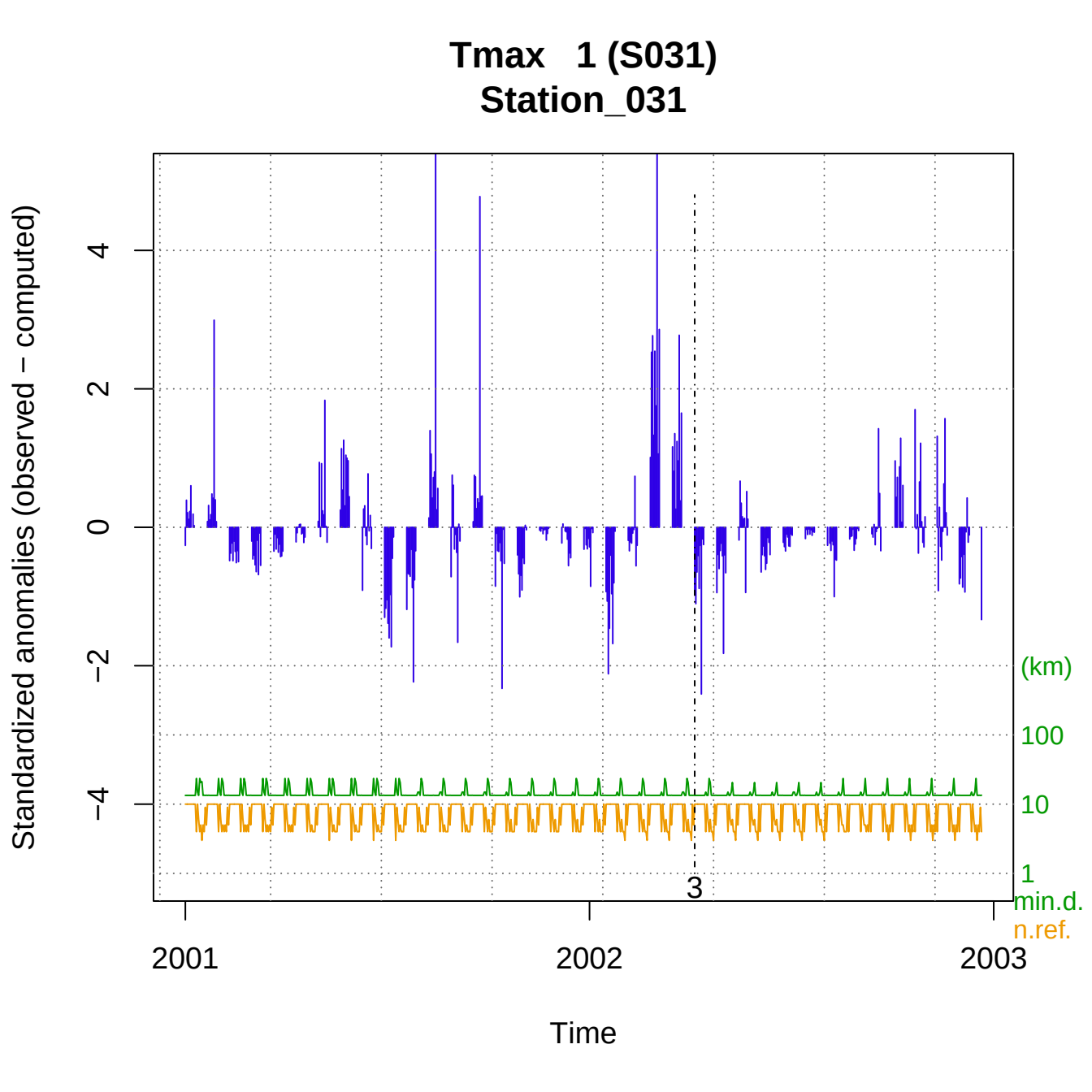

Correlogram of the daily series
Correlation coefficient
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
Distance (km)

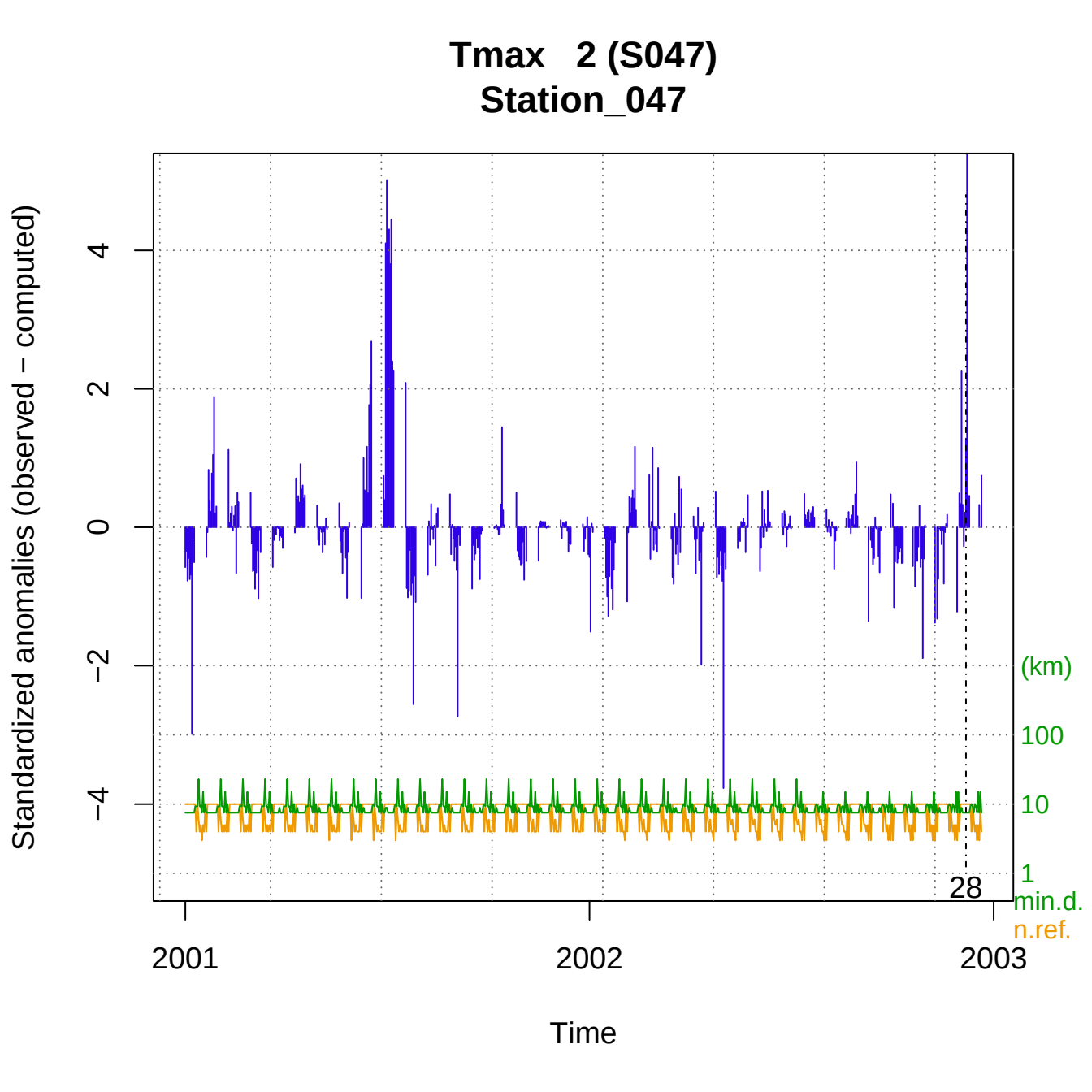

Dendrogram of station clusters
Dissimilarity
0.2
0.4
0.6
0.8
1.0
10
13
9
19
20
14
15
3
5
2
6
18
8
11
16
4
7
17
1
12
Stations

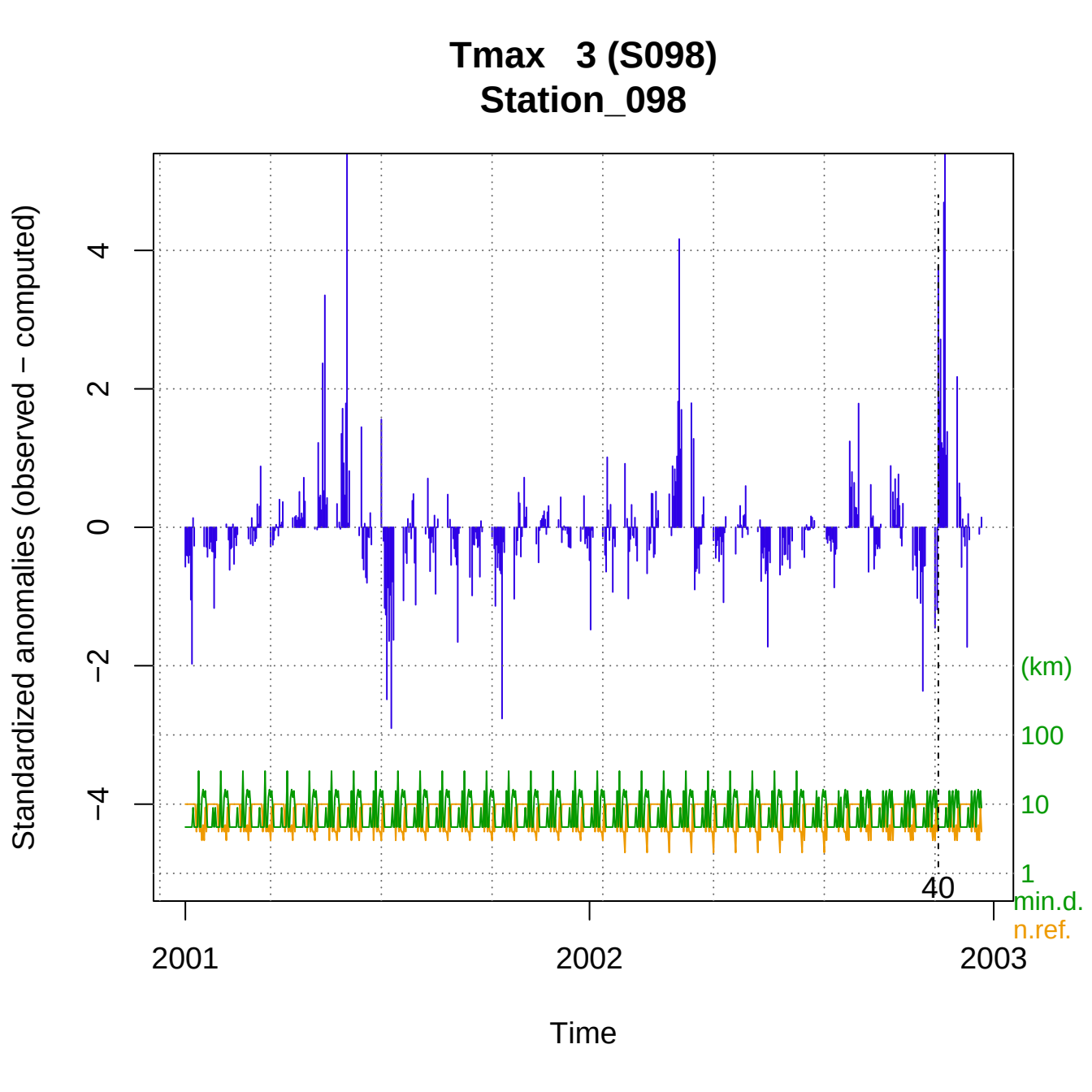

Tmax station locations (4 clusters)
39.8
39.7
39.6
39.5
39.4
2.6
2.8
3.0
3.2
7
6
16
19
2
4
13
5
17
12
3
1
8
9
18
20
14
15
10
11

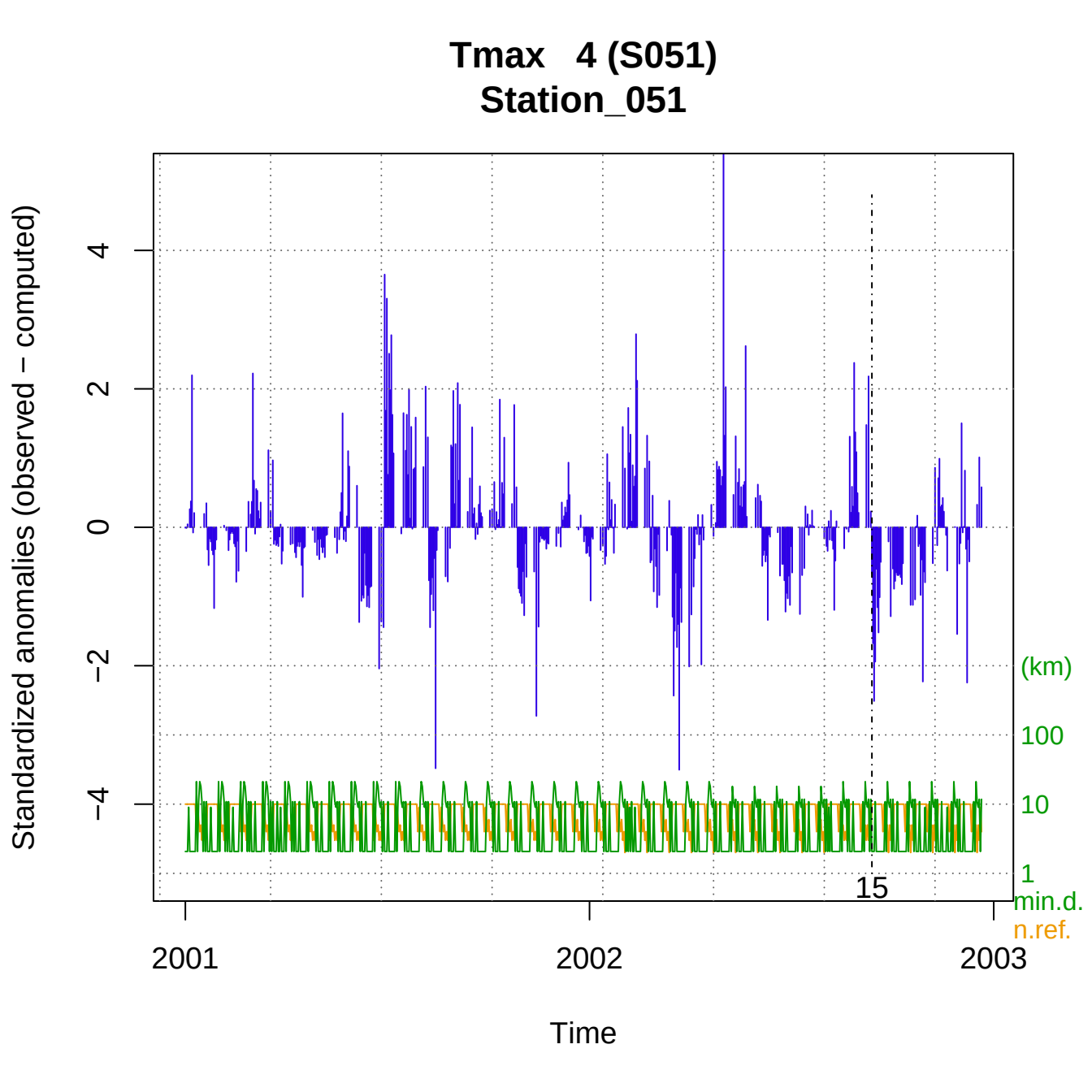
Stage 3

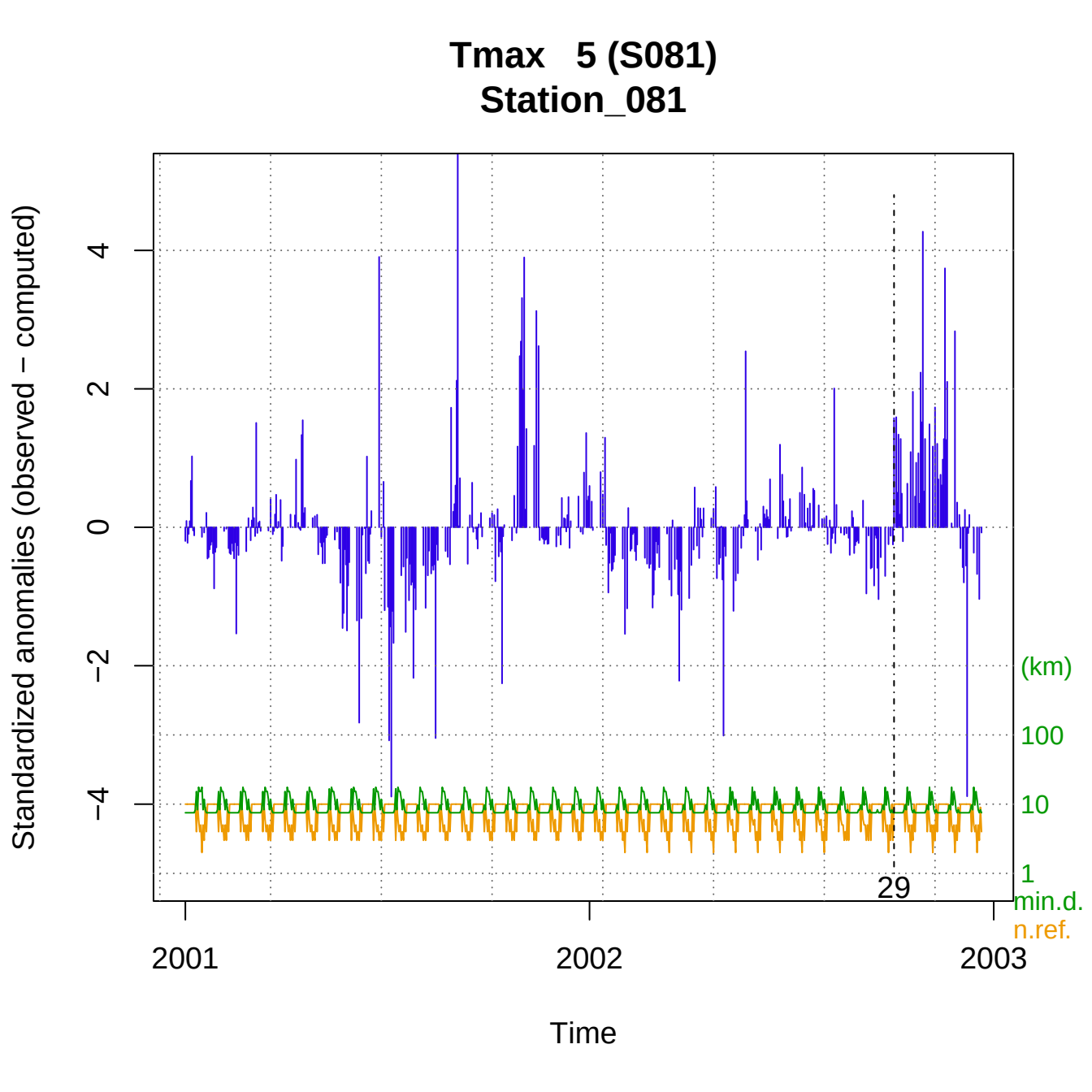
Anomalies after
missing data
recalculation
with wd = 100 km
(swa = 365)

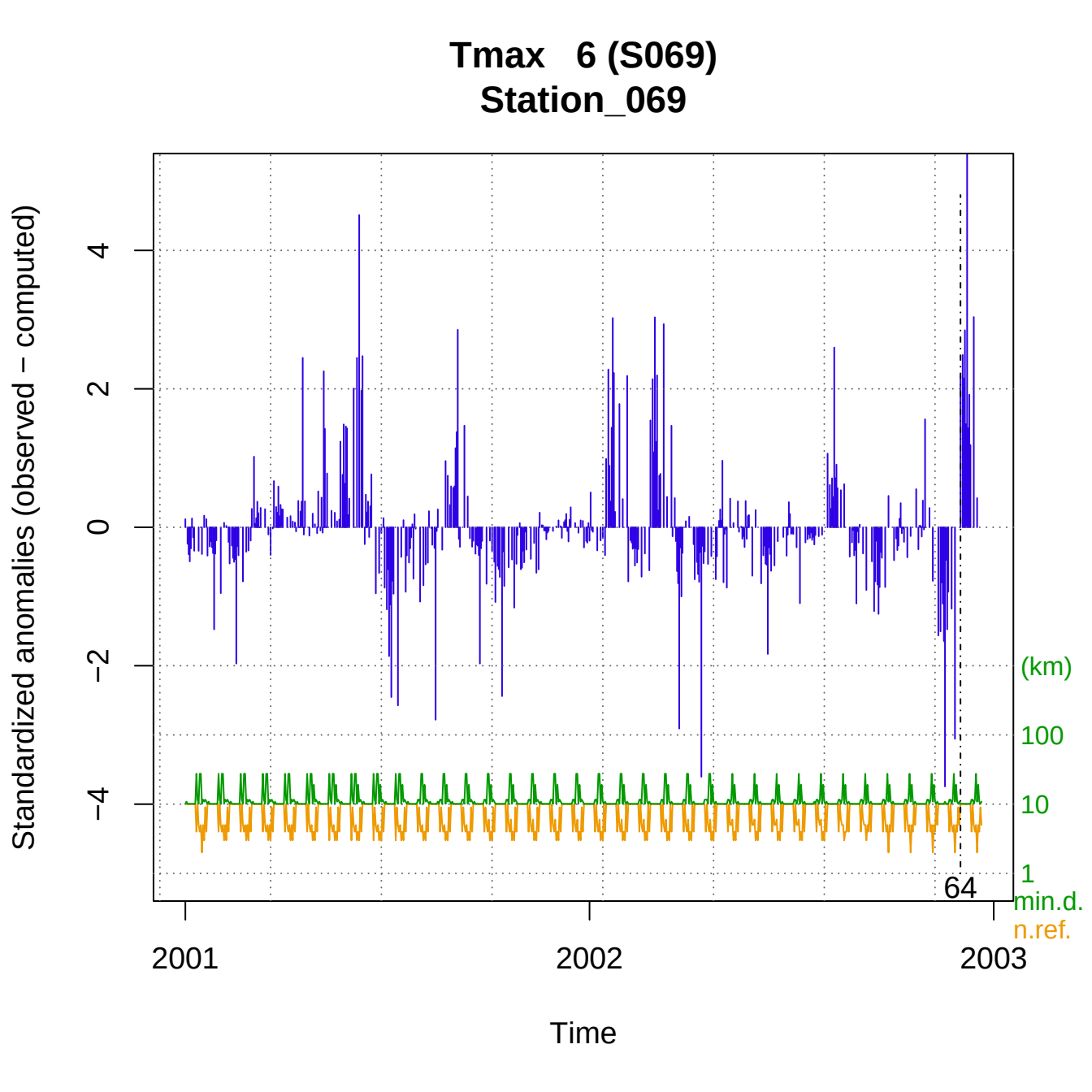

Tmax 1 (S031)
Station_031
Standardized anomalies (observed − computed)
4
2
0
−2
−4
3
(km)
100
10
1
min.d.
n.ref.
2001
2002
2003
Time

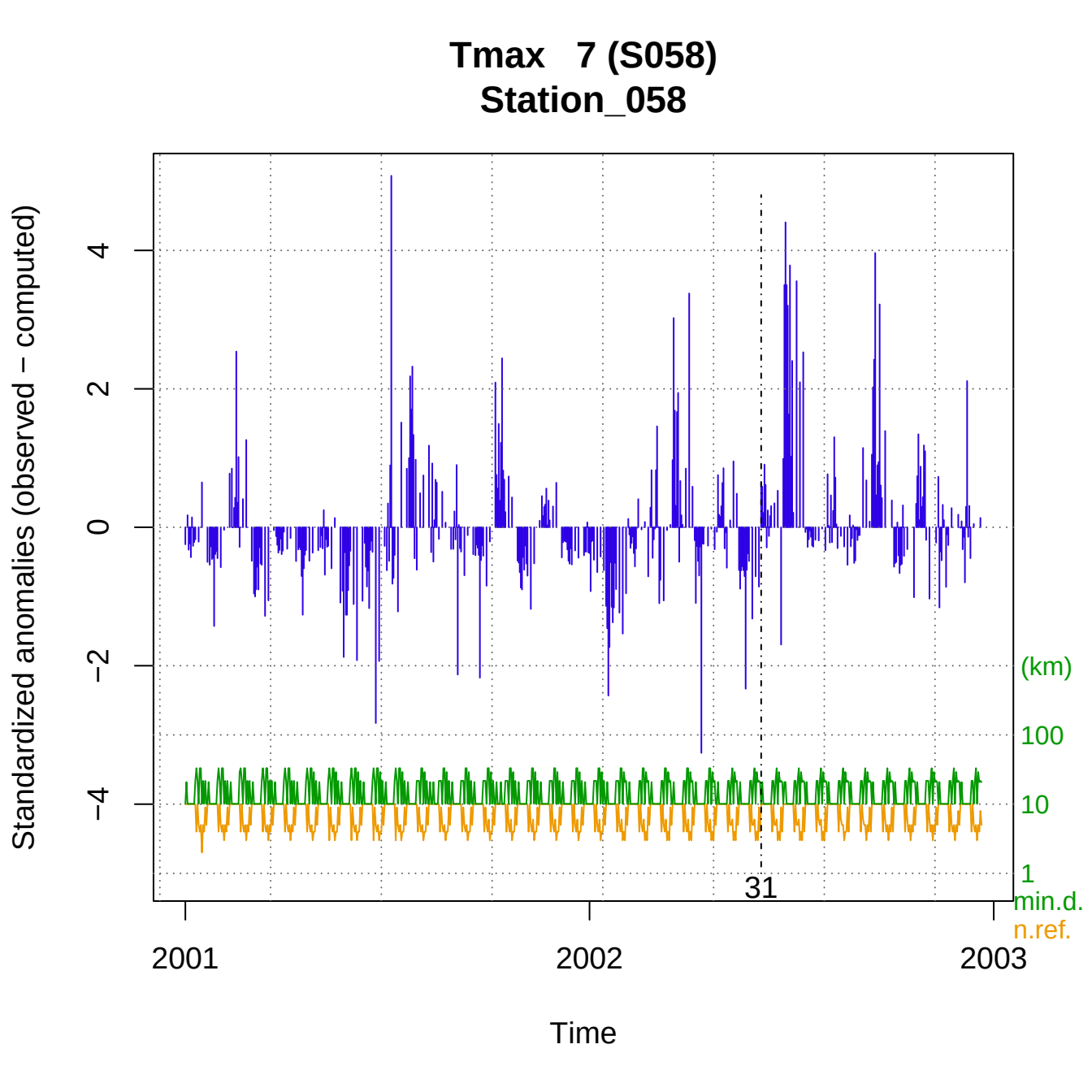

Tmax 2 (S047)
Station_047
Standardized anomalies (observed – computed)
4
2
0
−2
−4
(km)
100
10
1
min.d.
n.ref.
28
2001
2002
2003
Time

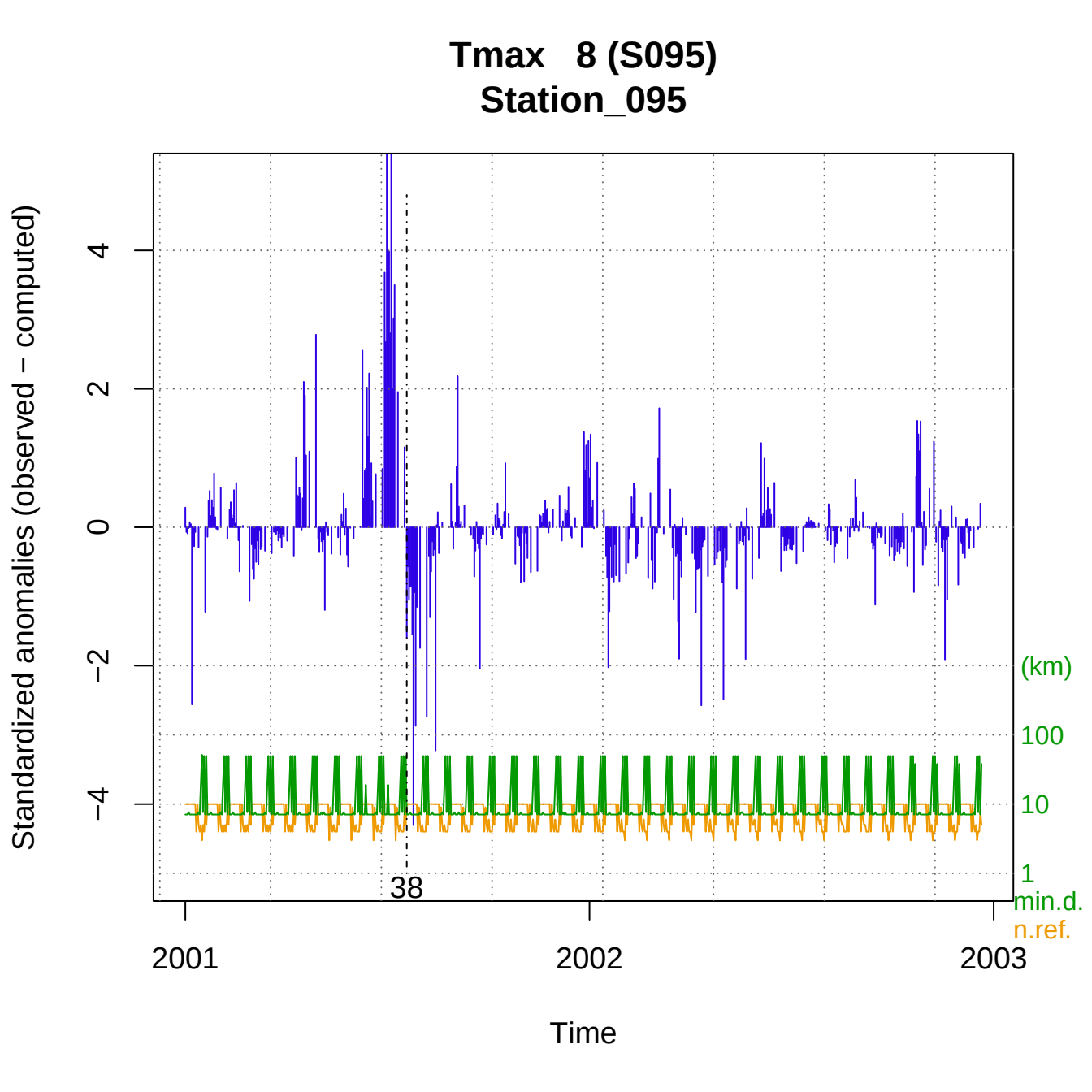

Tmax 3 (S098)
Station_098
Standardized anomalies (observed – computed)
4
2
0
−2
−4
(km)
100
10
1
min.d.
n.ref.
40
2001
2002
2003
Time

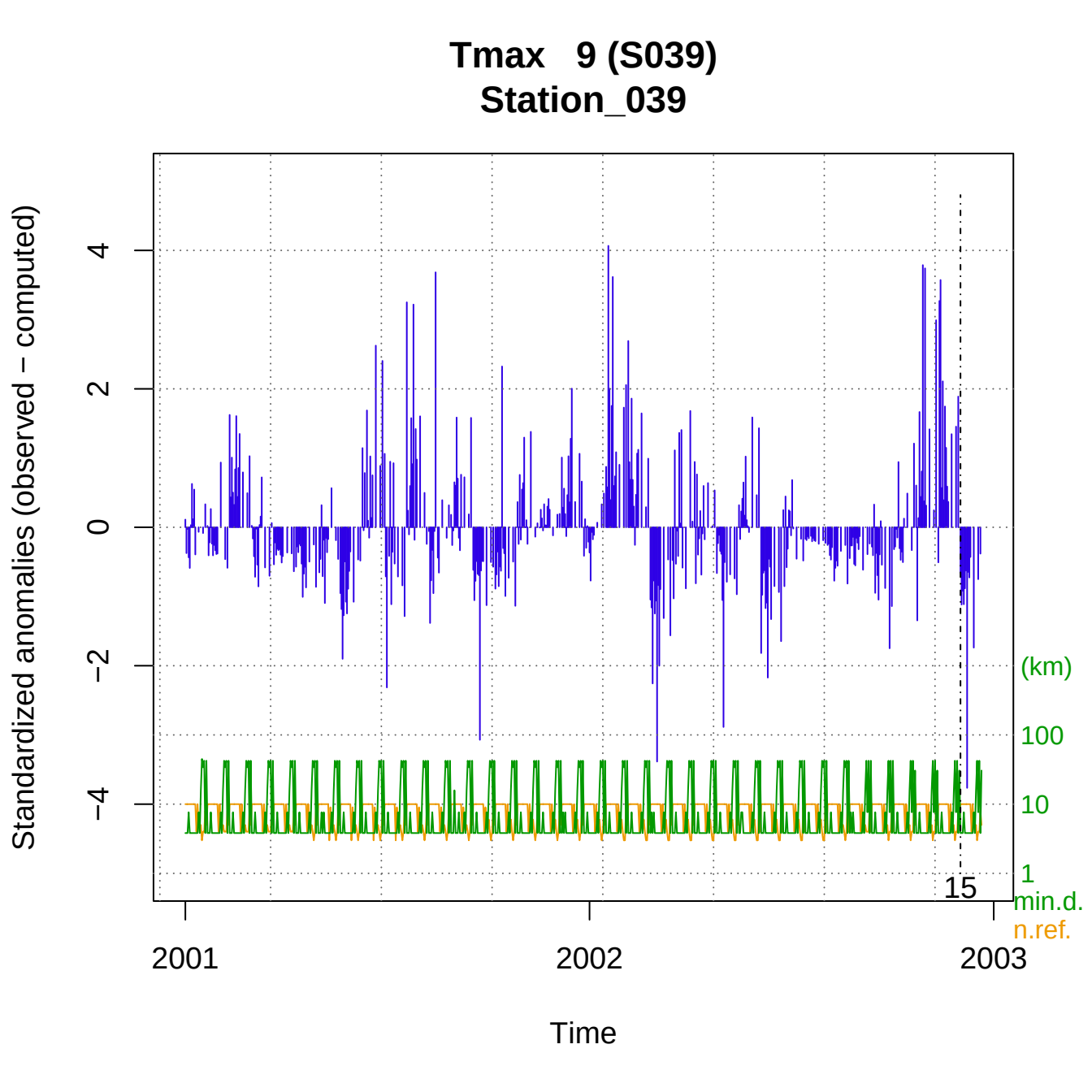

Tmax 4 (S051)
Station_051
Standardized anomalies (observed – computed)
4
2
0
−2
−4
(km)
100
10
1
min.d.
n.ref.
15
2001
2002
2003
Time

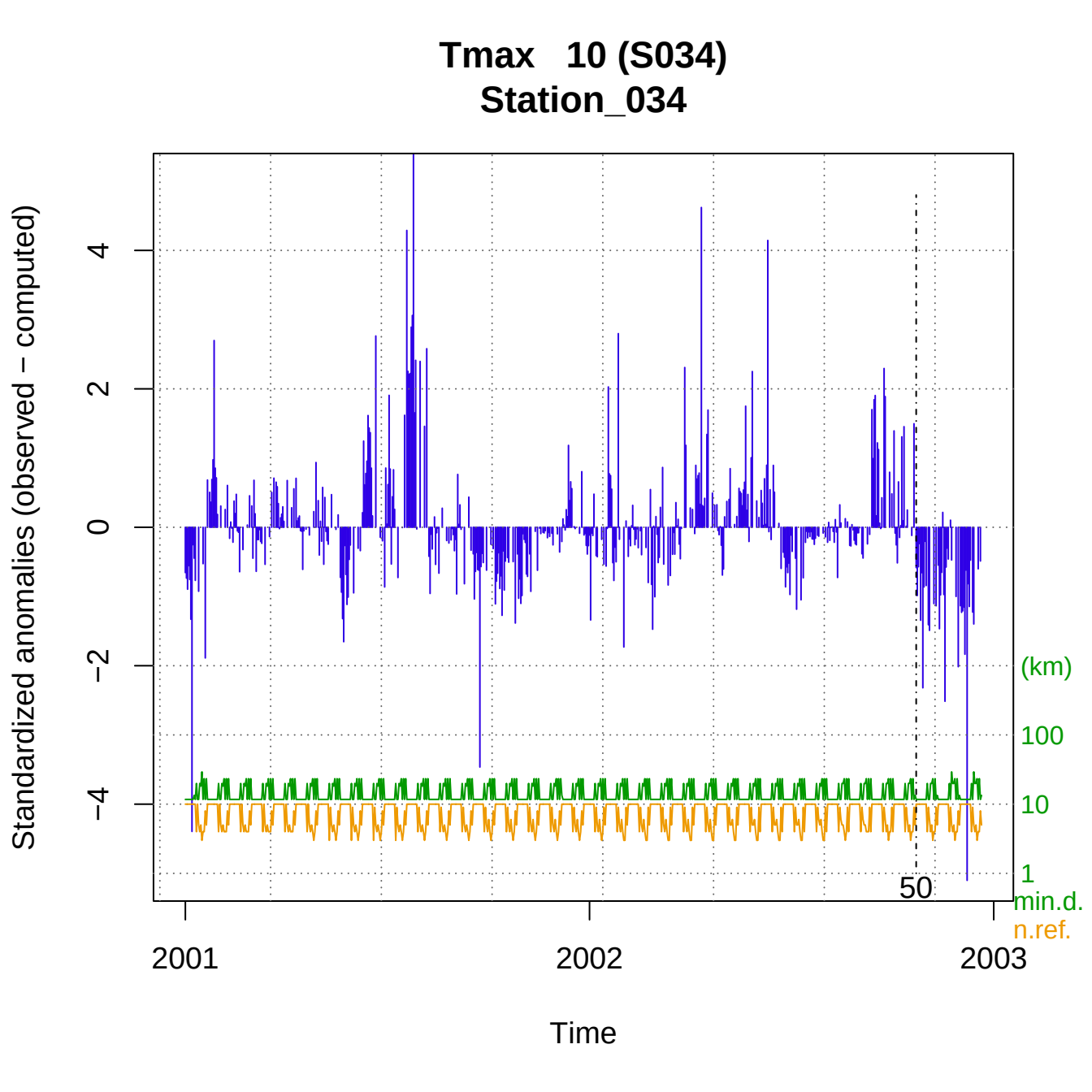

Tmax 5 (S081)
Station_081
Standardized anomalies (observed – computed)
4
2
0
−2
−4
(km)
100
10
1
min.d.
n.ref.
29
2001
2002
2003
Time

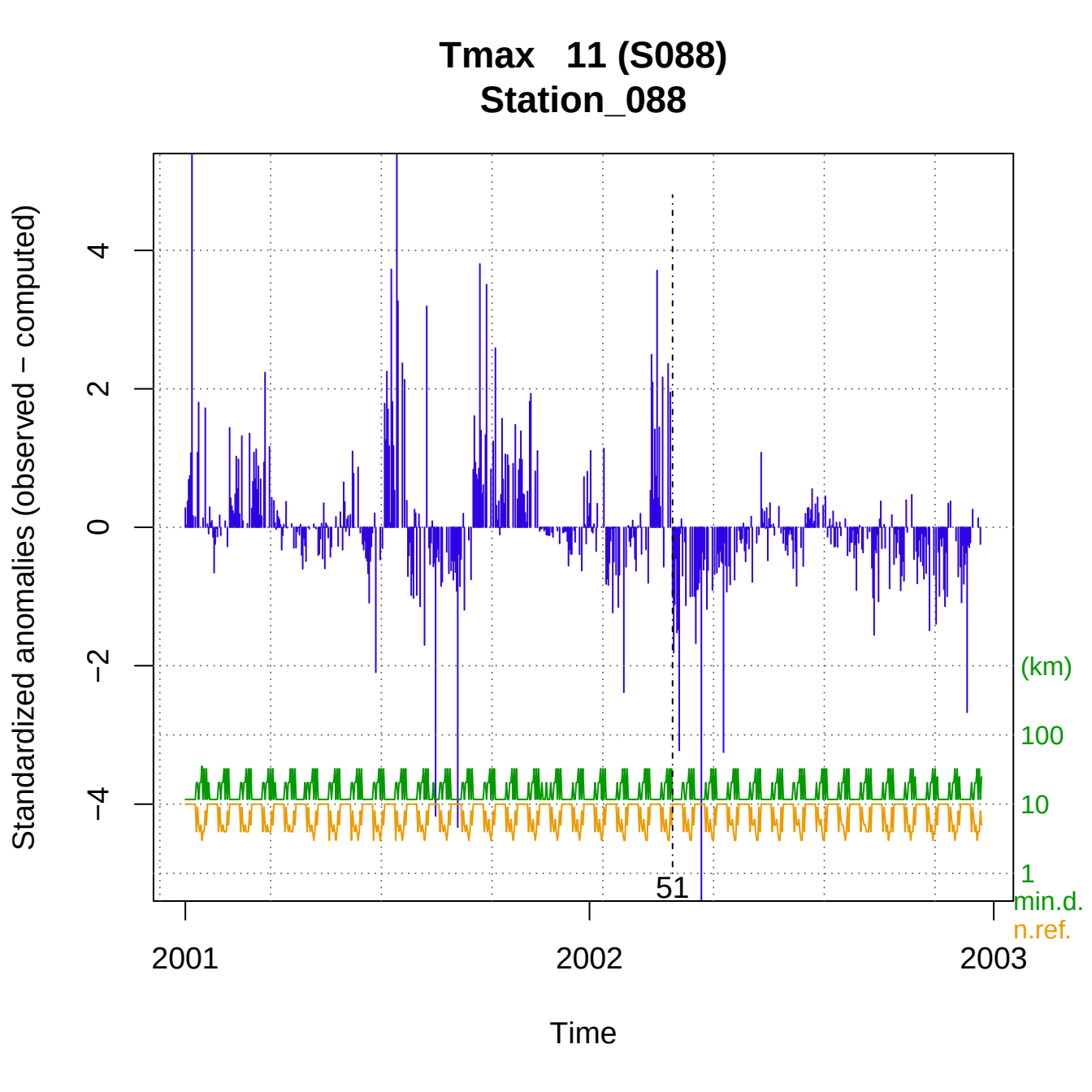

Tmax 6 (S069)
Station_069
Standardized anomalies (observed – computed)
4
2
0
−2
−4
(km)
100
10
1
64
min.d.
n.ref.
2001
2002
2003
Time

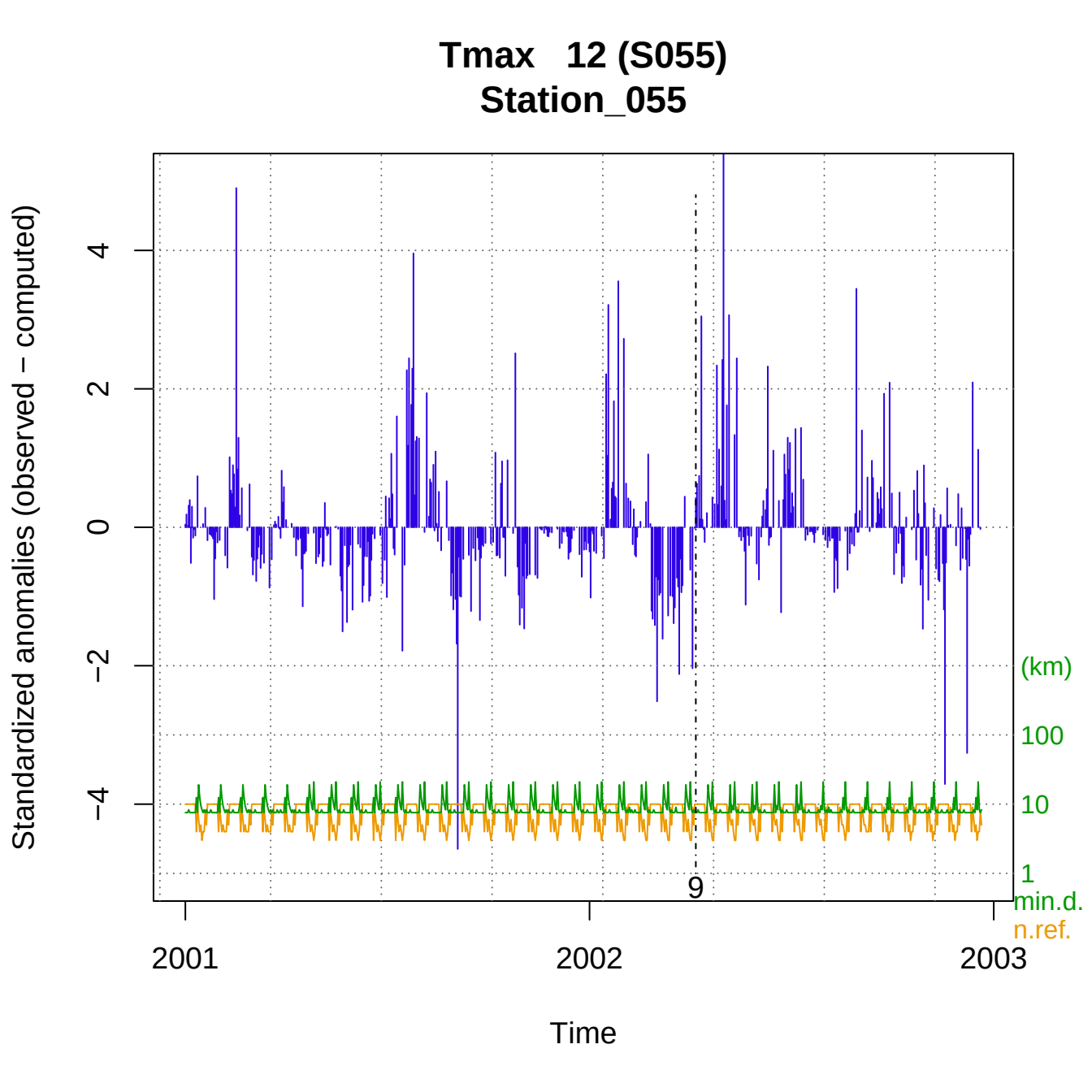

Tmax 7 (S058)
Station_058
Standardized anomalies (observed – computed)
4
2
0
−2
−4
(km)
100
10
1
min.d.
n.ref.
31
2001
2002
2003
Time

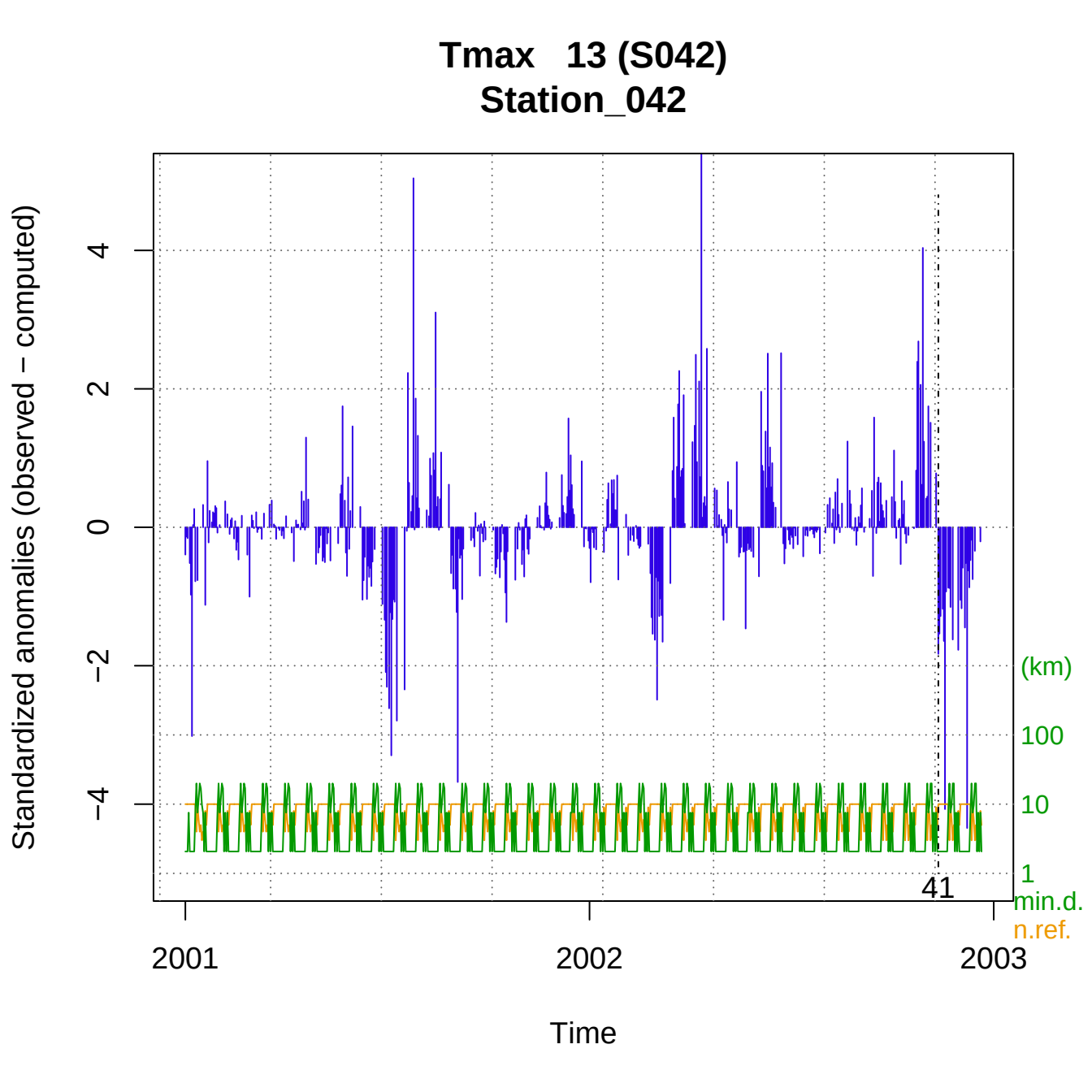

Tmax 8 (S095)
Station_095
Standardized anomalies (observed – computed)
4
2
0
−2
−4
38
2001
2002
2003
Time
(km)
100
10
1
min.d.
n.ref.

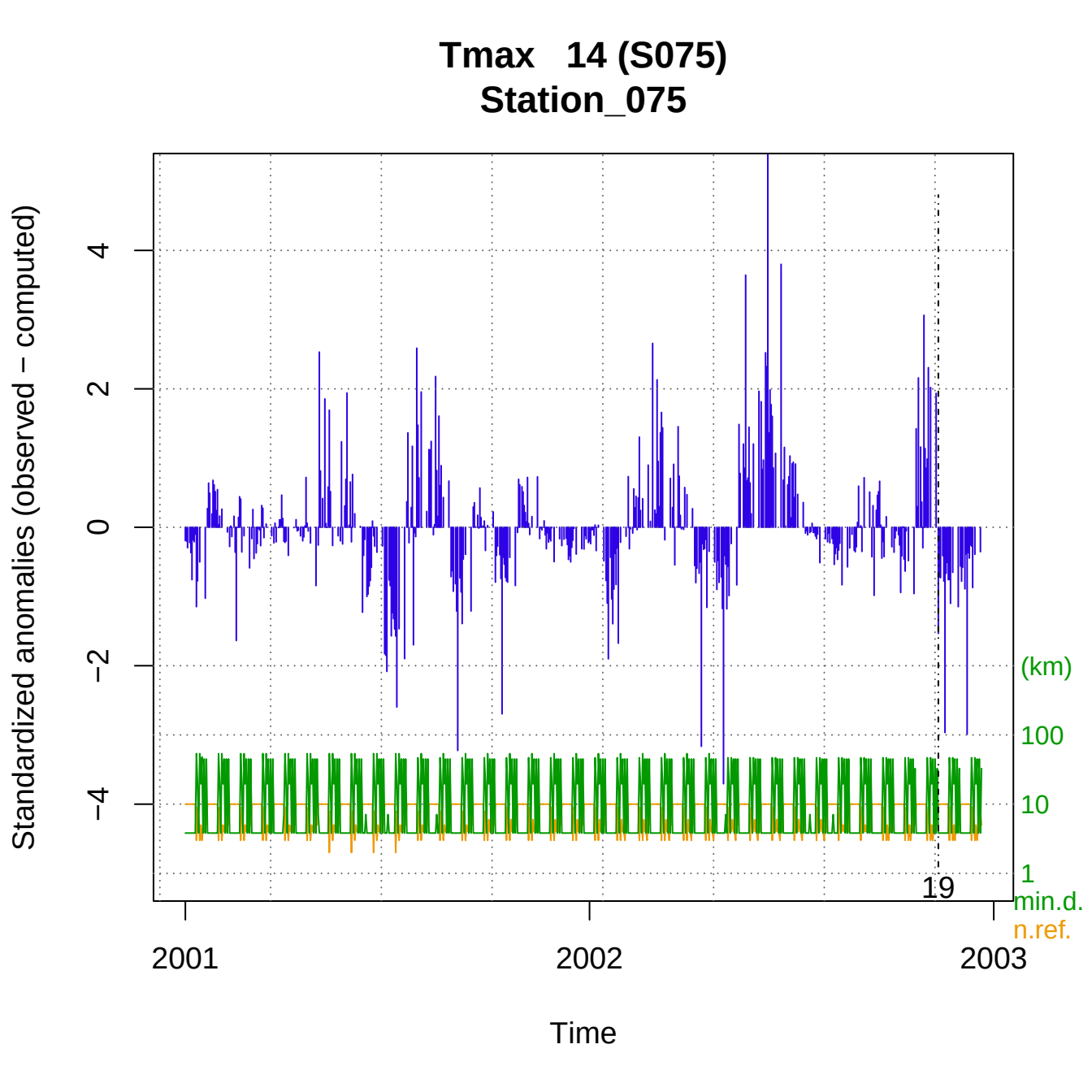

Tmax 9 (S039)
Station_039
Standardized anomalies (observed – computed)
4
2
0
−2
−4
(km)
100
10
1
15
min.d.
n.ref.
2001
2002
2003
Time

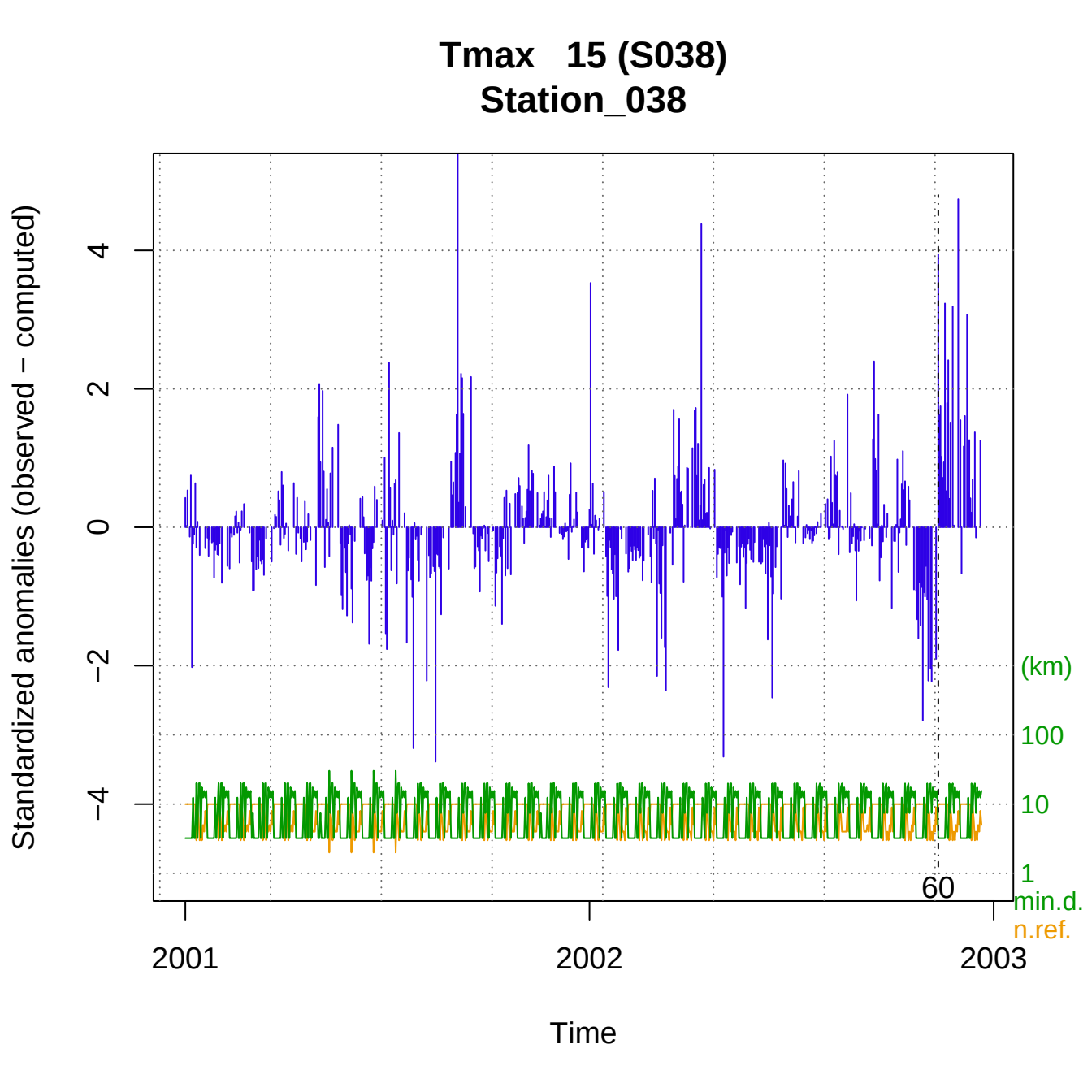

Tmax 10 (S034)
Station_034
Standardized anomalies (observed – computed)
4
2
0
−2
−4
(km)
100
10
1
min.d.
n.ref.
50
2001
2002
2003
Time

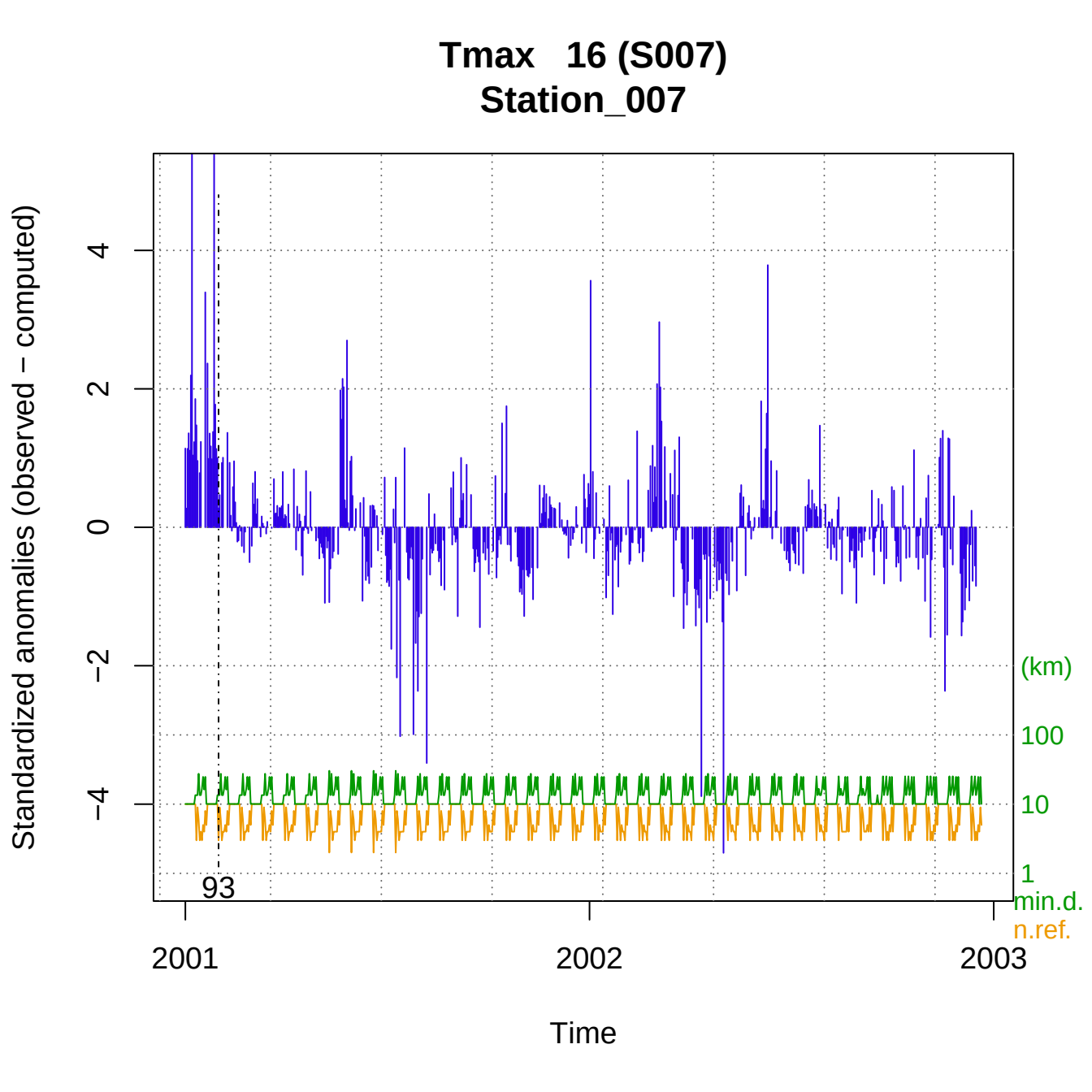

Tmax 11 (S088)
Station_088
Standardized anomalies (observed – computed)
4
2
0
−2
−4
51
2001
2002
2003
Time
(km)
100
10
1
min.d.
n.ref.

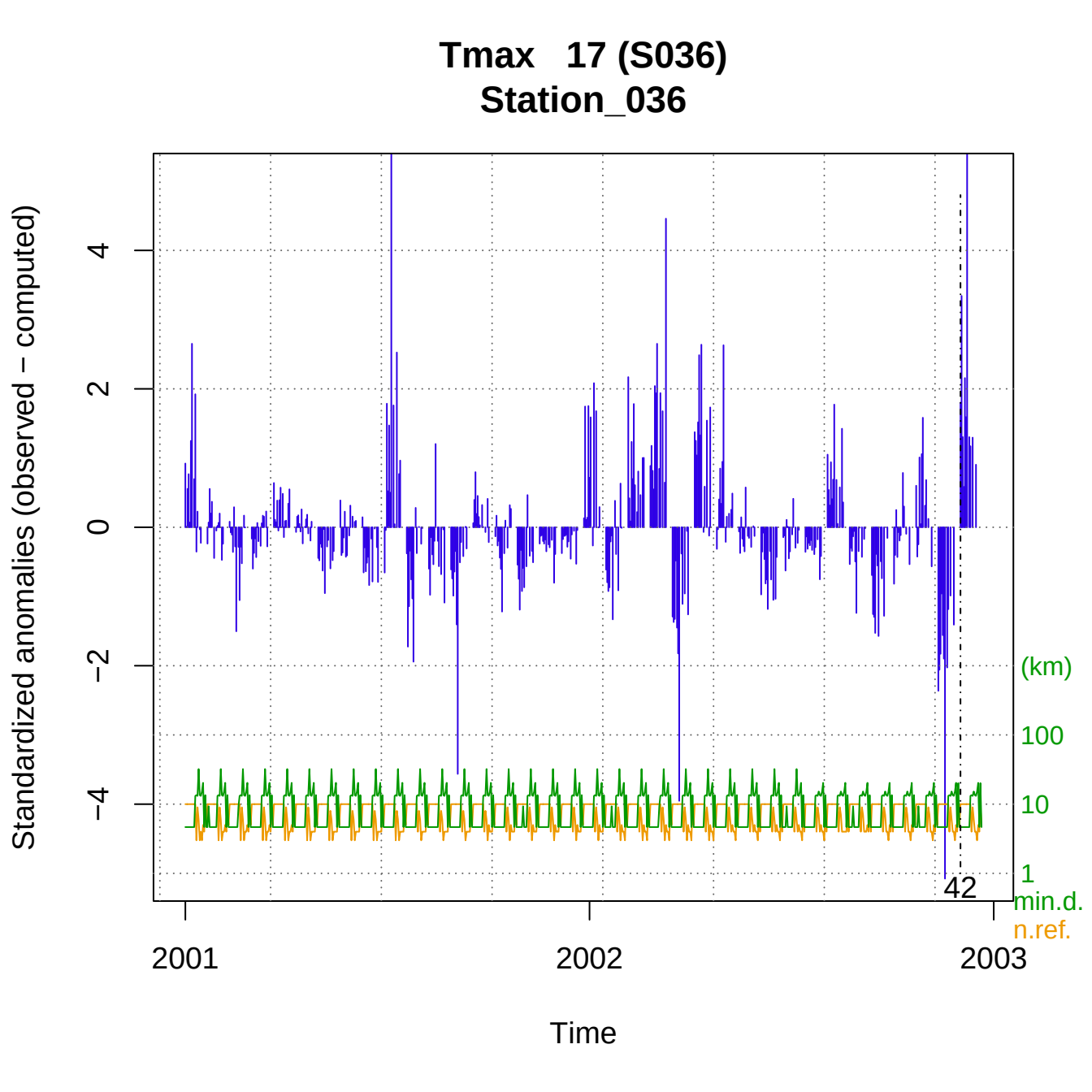

Tmax 12 (S055)
Station_055
Standardized anomalies (observed − computed)
4
2
0
−2
−4
9
(km)
100
10
1
min.d.
n.ref.
2001
2002
2003
Time

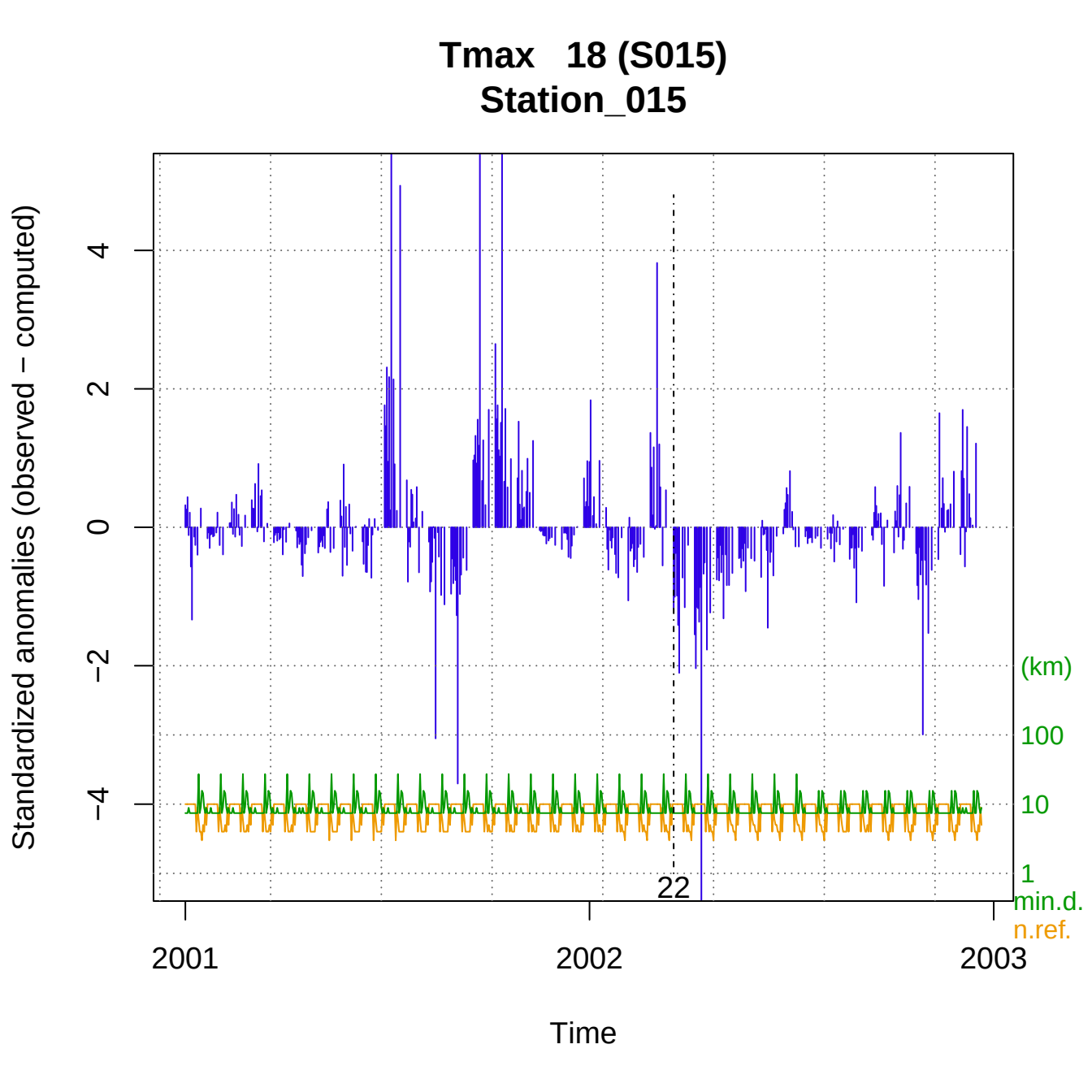

Tmax 13 (S042)
Station_042
Standardized anomalies (observed – computed)
4
2
0
−2
−4
(km)
100
10
1
41
min.d.
n.ref.
2001
2002
2003
Time

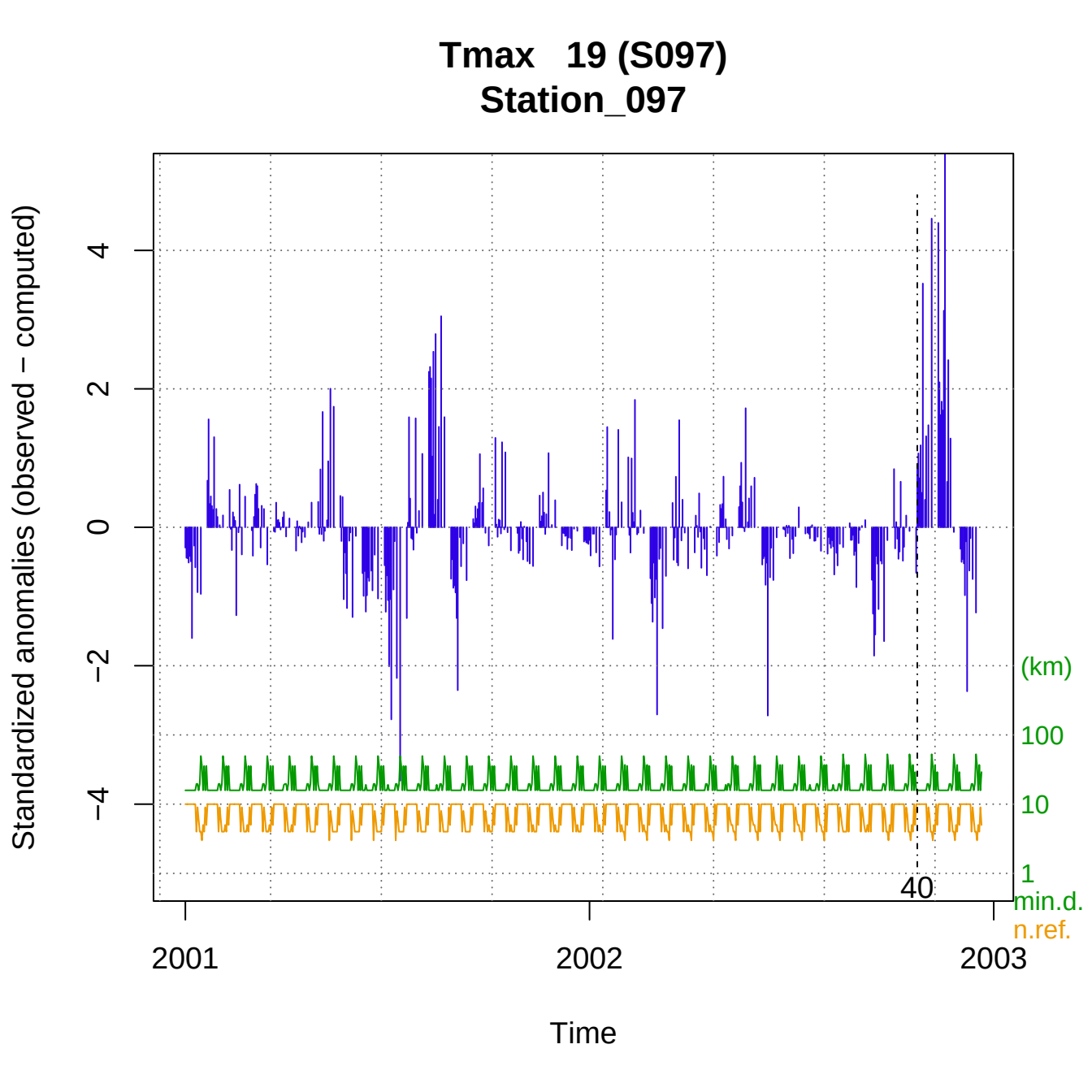

Tmax 14 (S075)
Station_075
Standardized anomalies (observed − computed)
4
2
0
−2
−4
(km)
100
10
1
min.d.
n.ref.
19
2001
2002
2003
Time

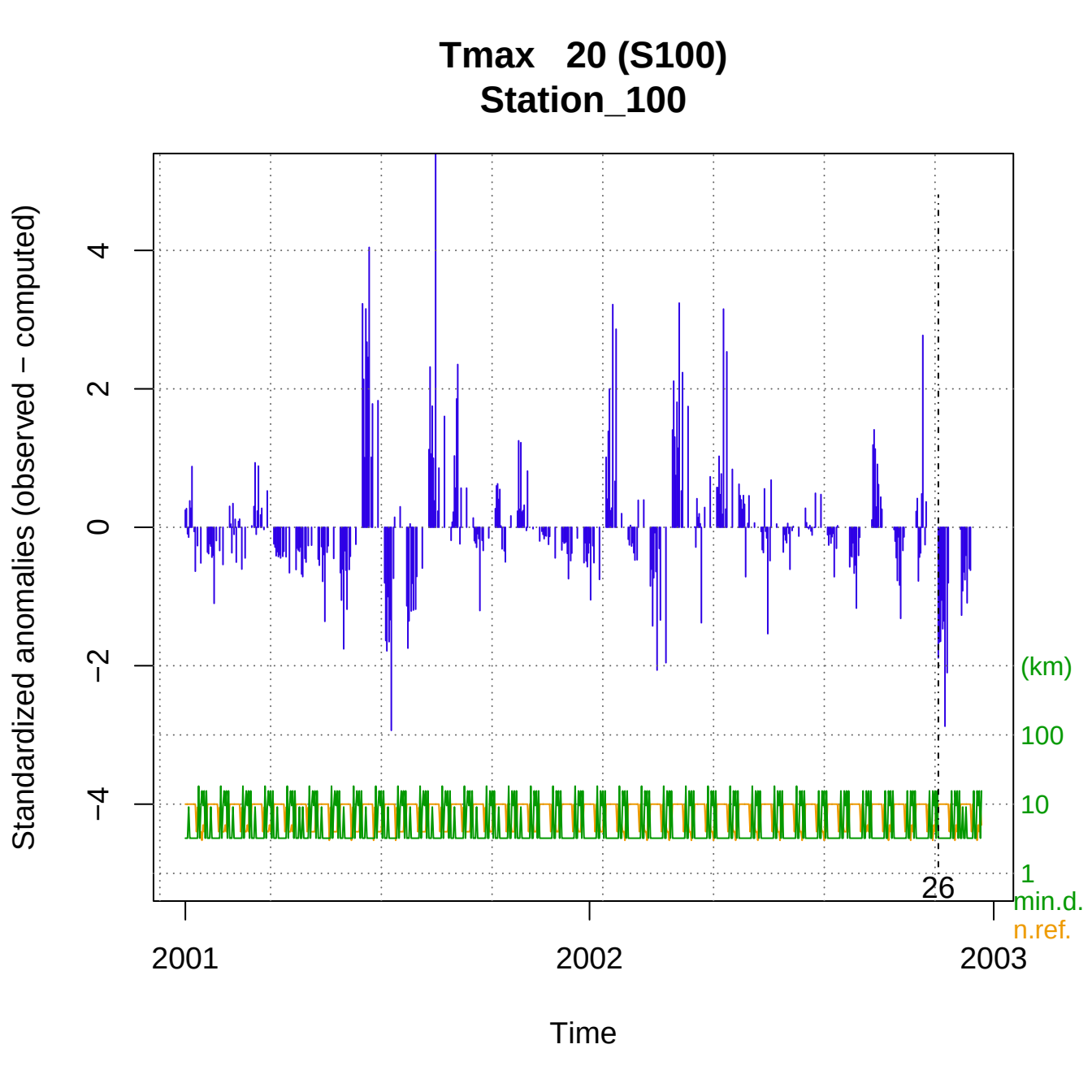

Tmax 15 (S038)
Station_038
Standardized anomalies (observed − computed)
4
2
0
−2
−4
(km)
100
10
1
60
min.d.
n.ref.
2001
2002
2003
Time


Tmax 16 (S007)
Station_007
Standardized anomalies (observed − computed)
4
2
0
−2
−4
93
2001
2002
2003
Time
(km)
100
10
1
min.d.
n.ref.


Tmax 17 (S036)
Station_036
Standardized anomalies (observed – computed)
4
2
0
−2
−4
(km)
100
10
1
min.d.
n.ref.
42
2001
2002
2003
Time

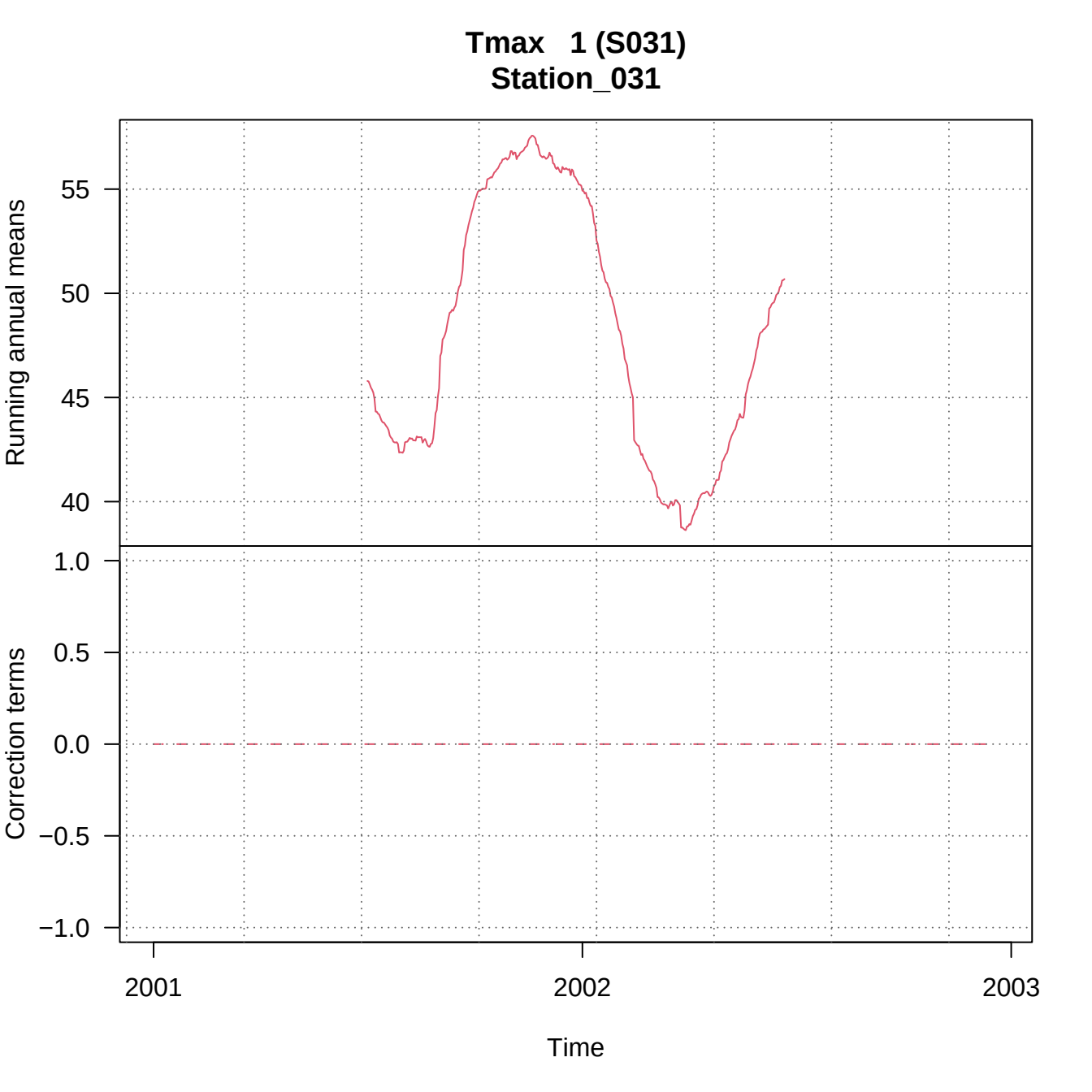

Tmax 18 (S015)
Station_015
Standardized anomalies (observed − computed)
4
2
0
−2
−4
22
(km)
100
10
1
min.d.
n.ref.
2001
2002
2003
Time

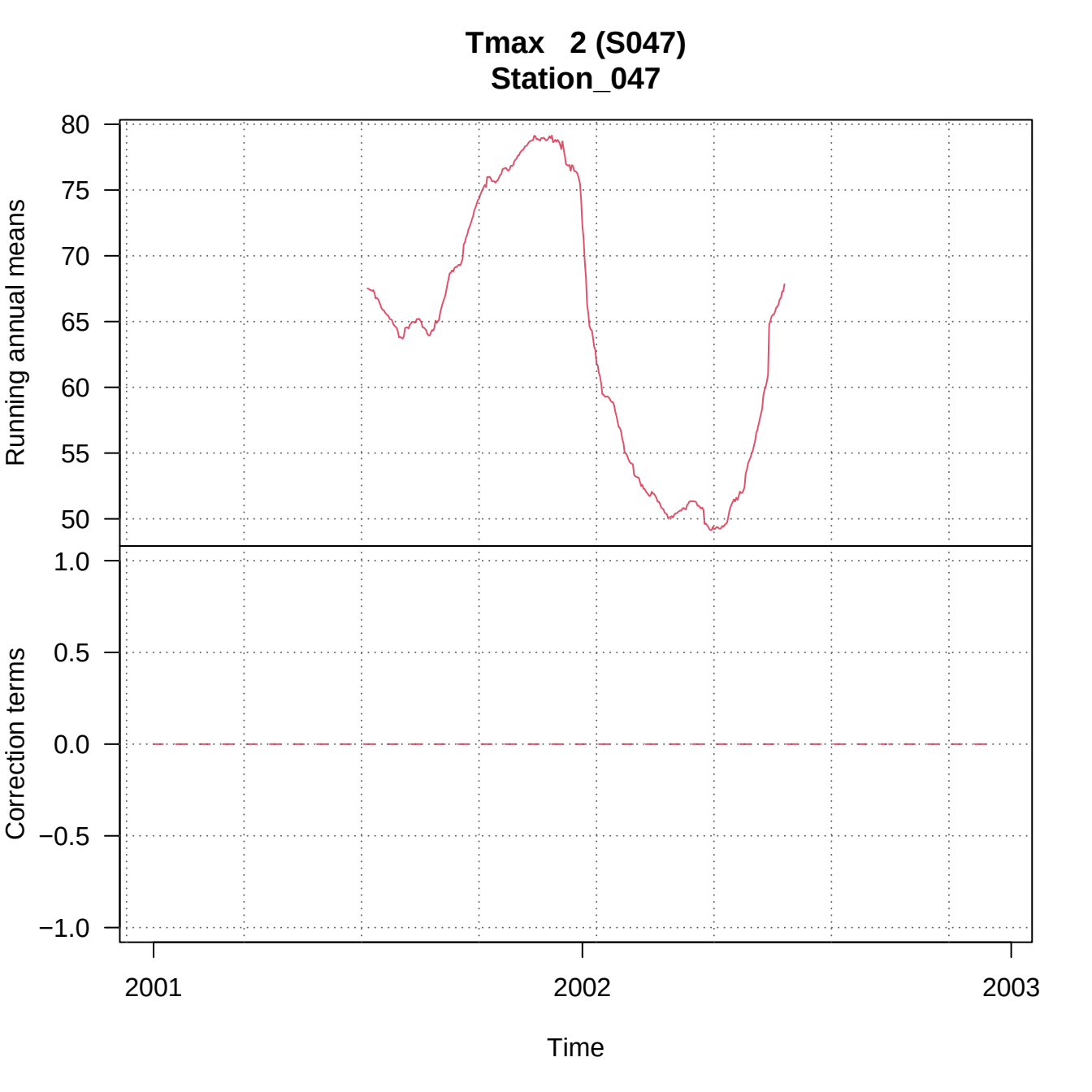

Tmax 19 (S097)
Station_097
Standardized anomalies (observed – computed)
4
2
0
−2
−4
(km)
100
10
1
min.d.
n.ref.
40
2001
2002
2003
Time

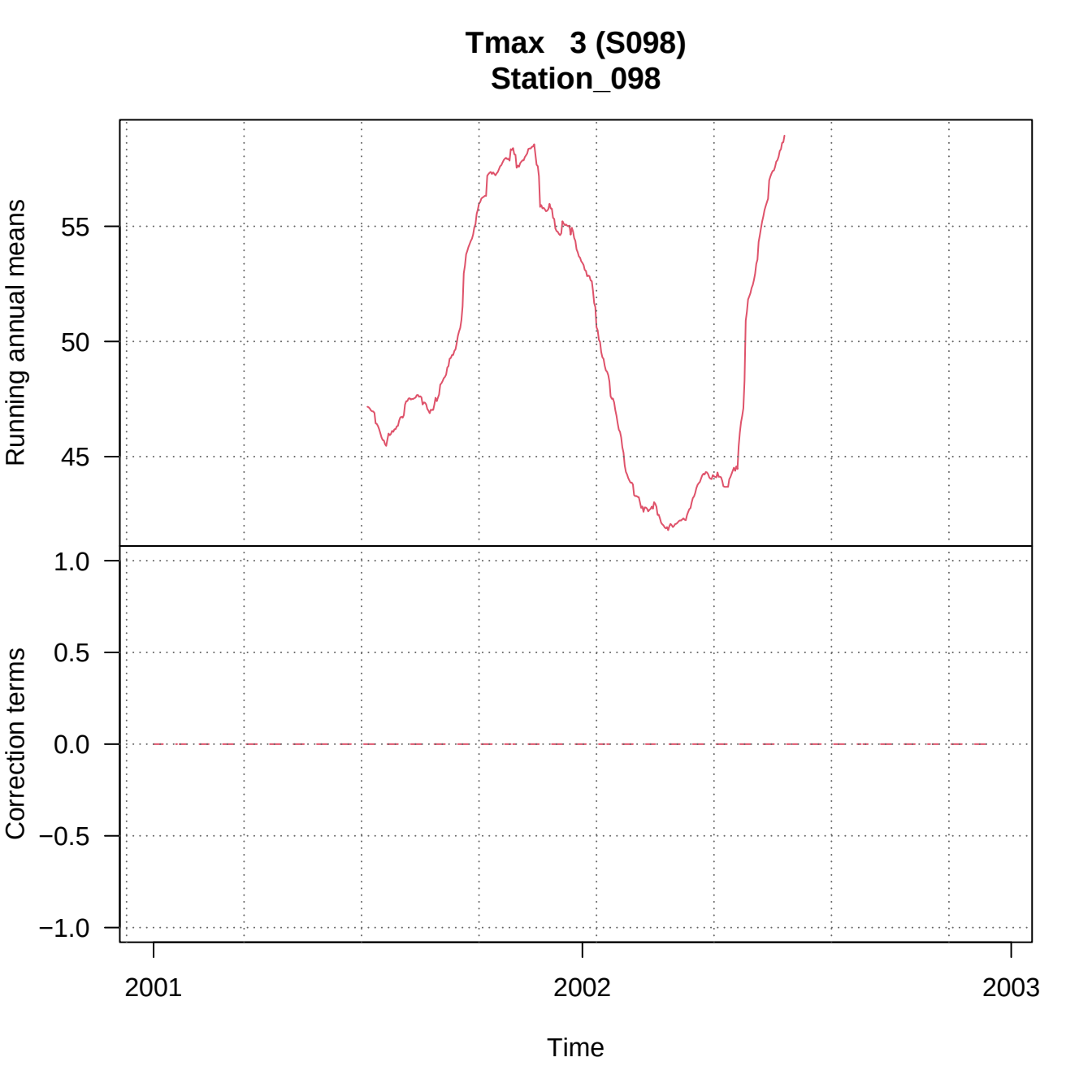

Tmax 20 (S100)
Station_100
Standardized anomalies (observed − computed)
4
2
0
−2
−4
(km)
100
10
1
min.d.
n.ref.
26
2001
2002
2003
Time

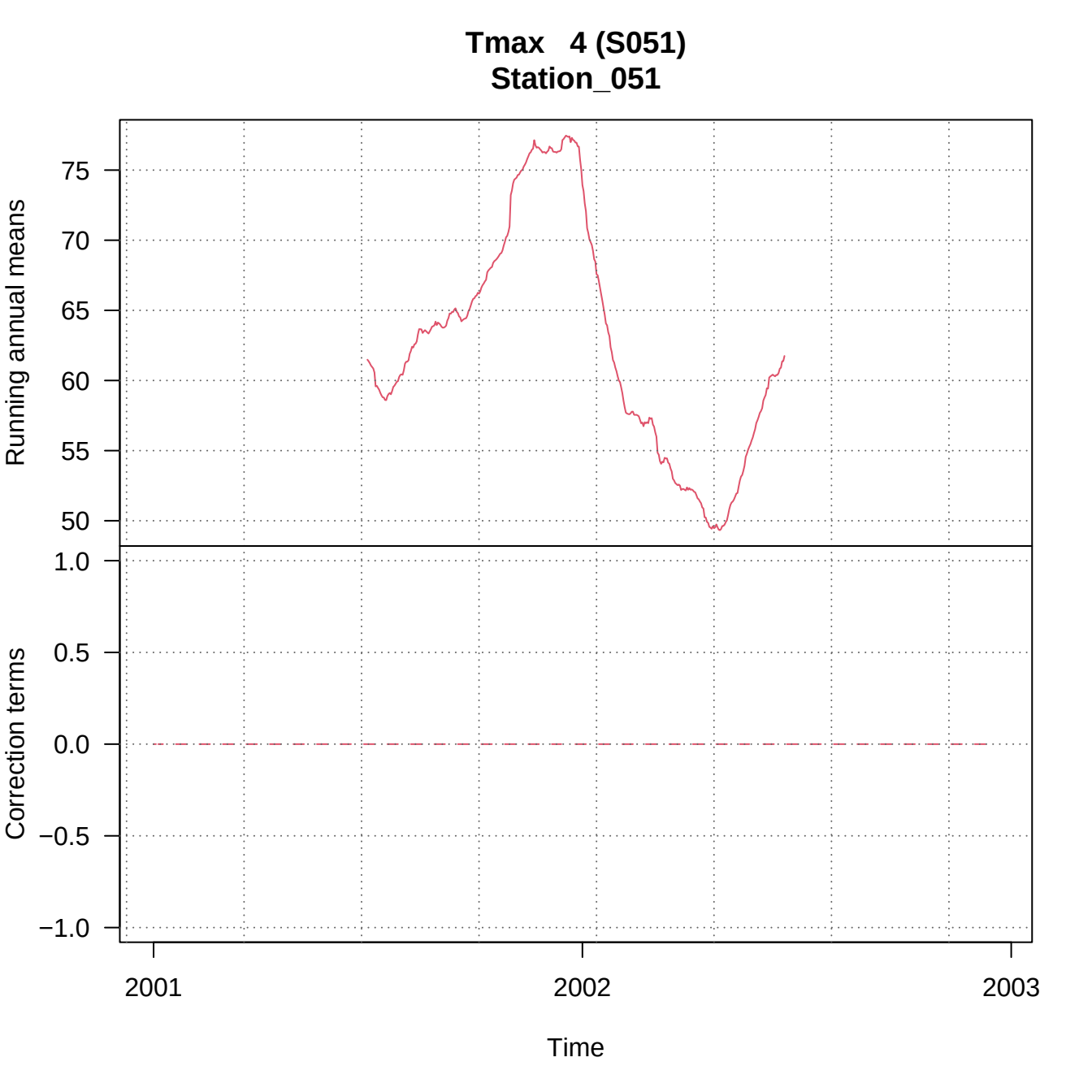
Final graphics

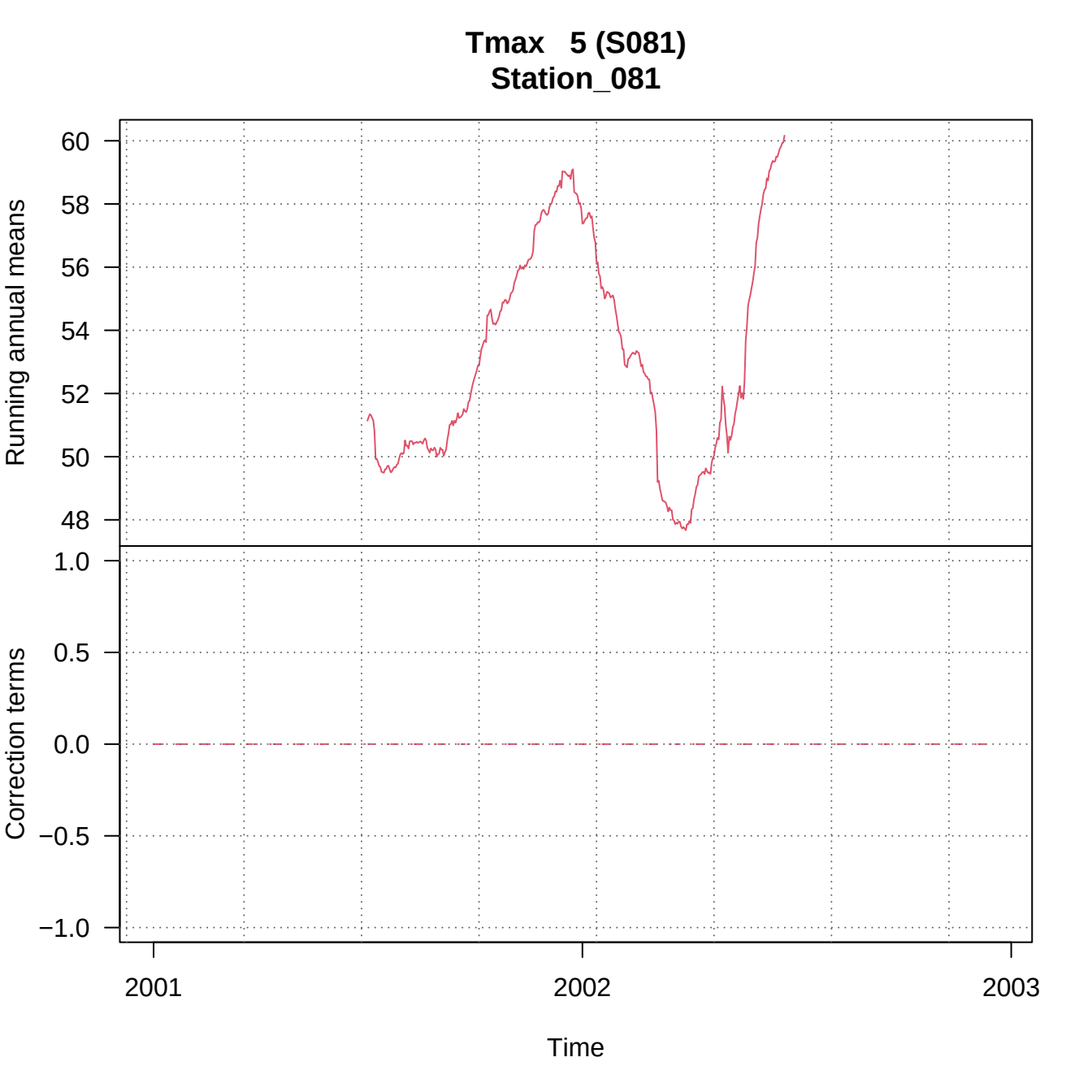
Adjusted series and applied corrections

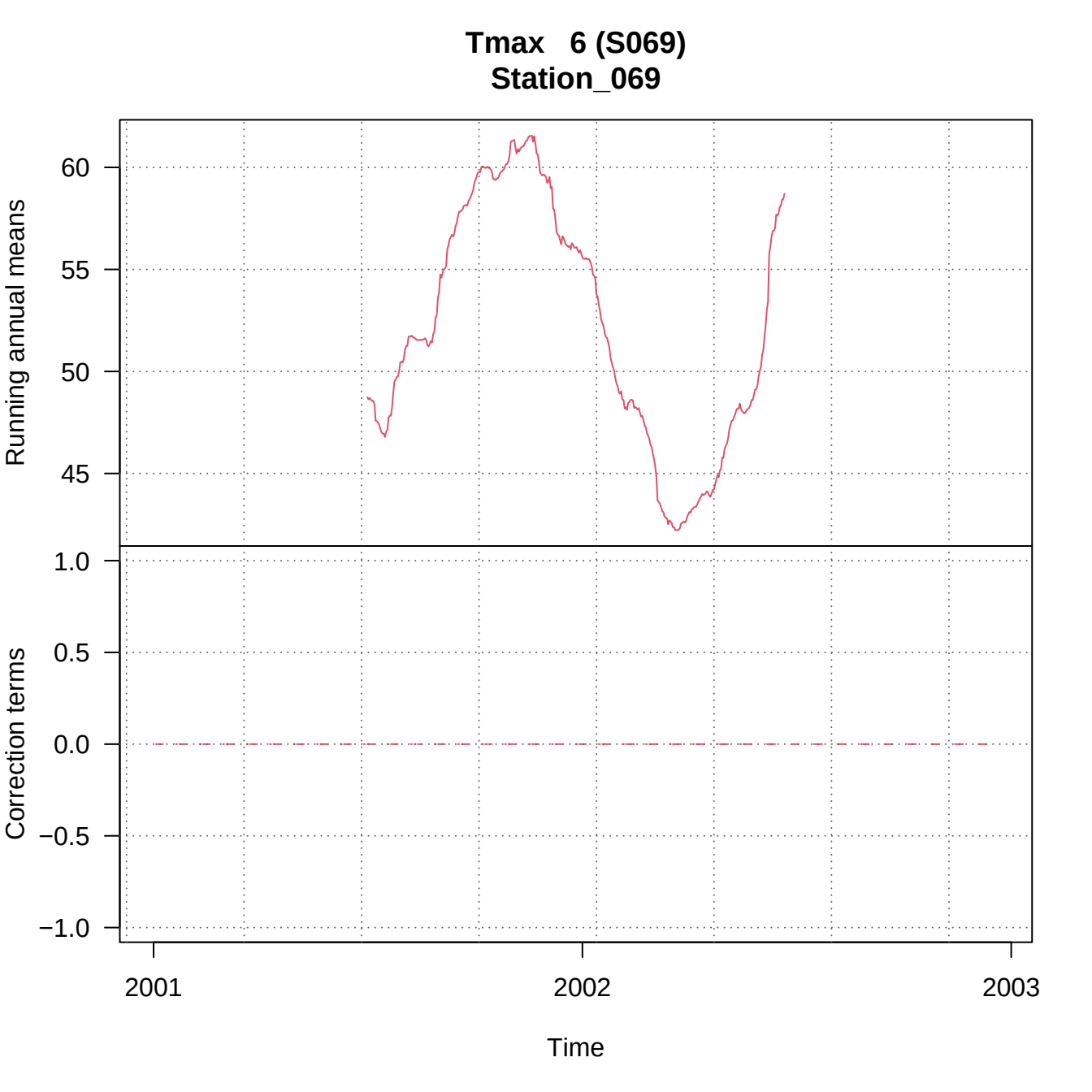

Tmax 1 (S031)
Station_031
Running annual means
55
50
45
40
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

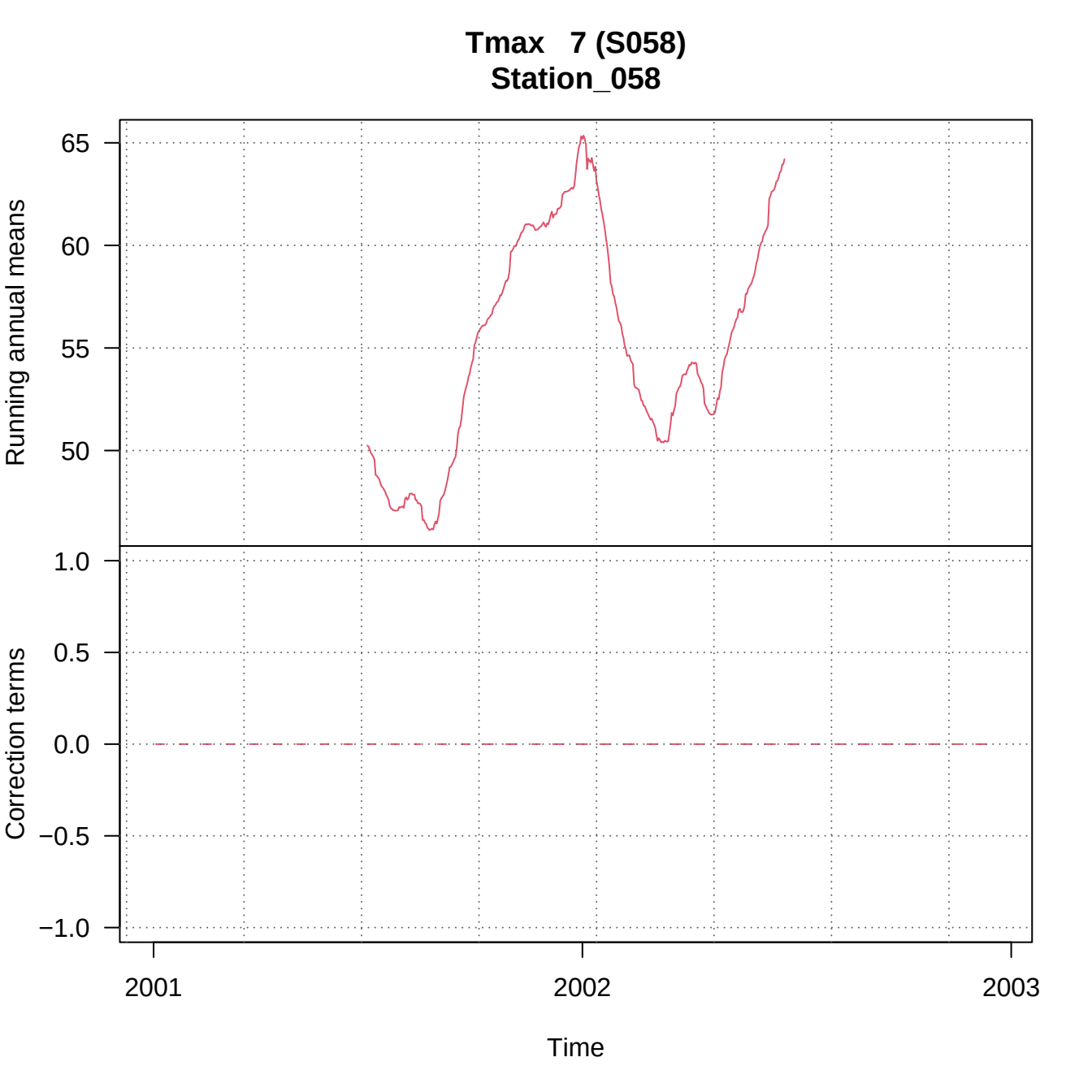

Tmax 2 (S047)
Station_047
Running annual means
80
75
70
65
60
55
50
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

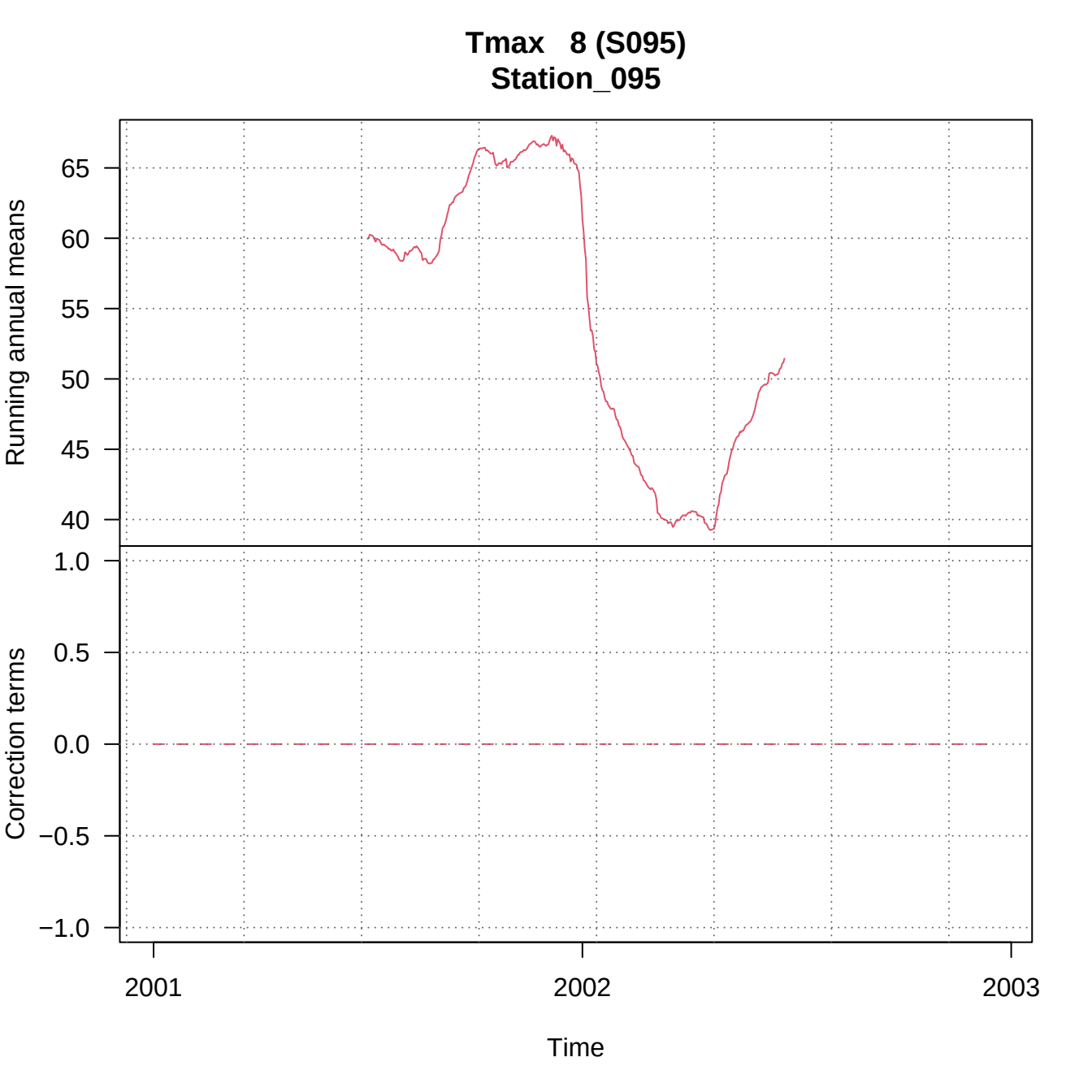

Tmax 3 (S098)
Station_098
Running annual means
55
50
45
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

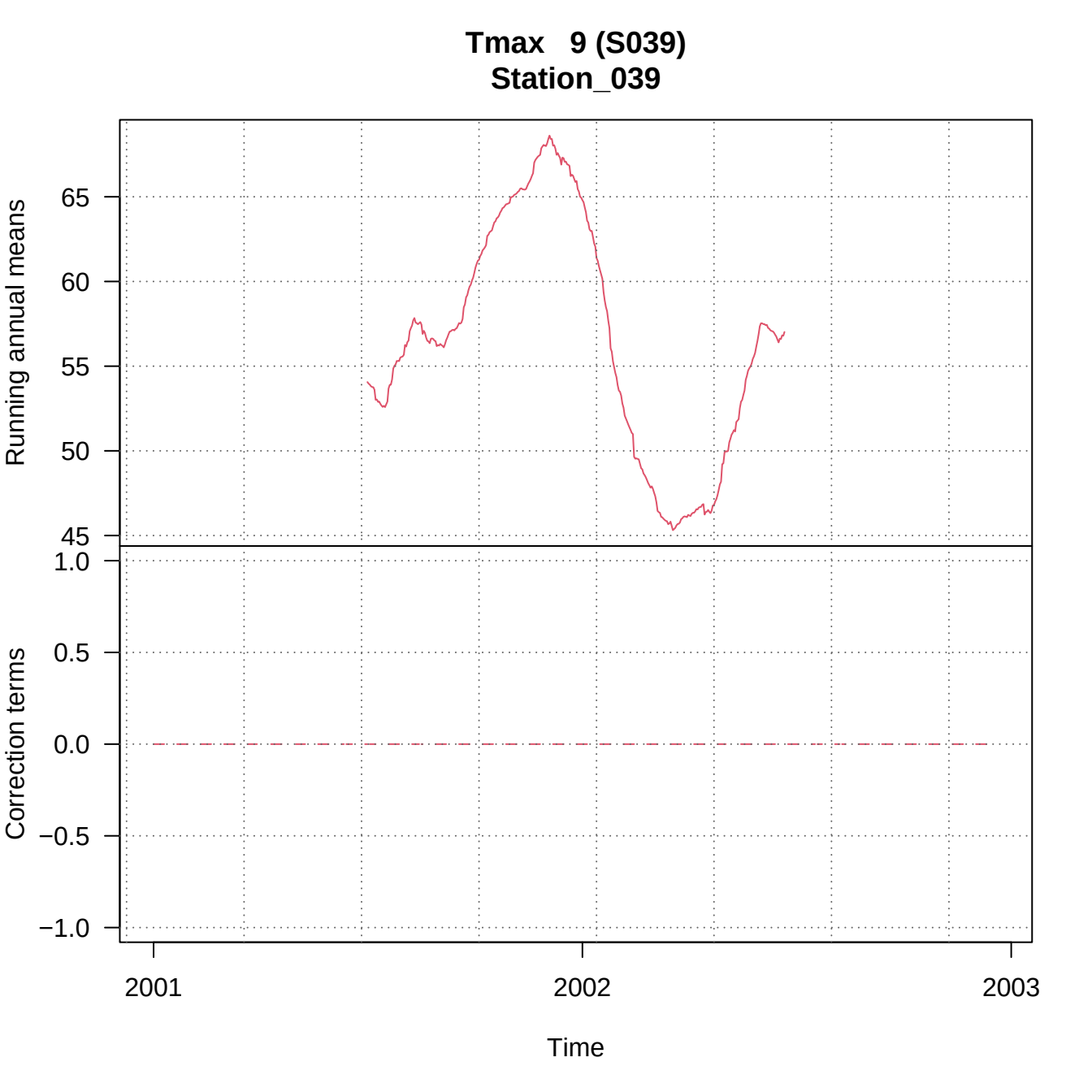

Tmax 4 (S051)
Station_051
Running annual means
75
70
65
60
55
50
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

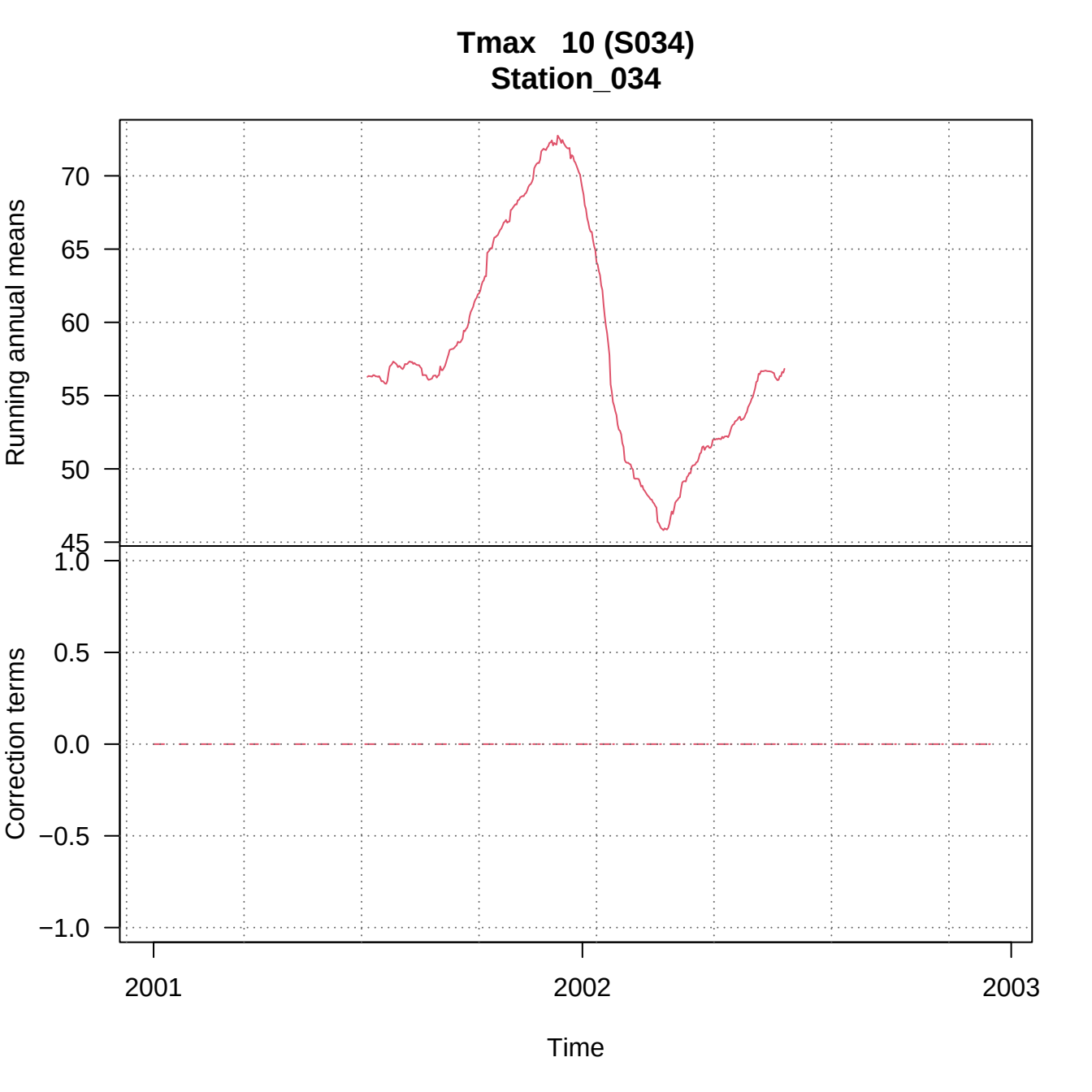

Tmax 5 (S081)
Station_081
Running annual means
60
58
56
54
52
50
48
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

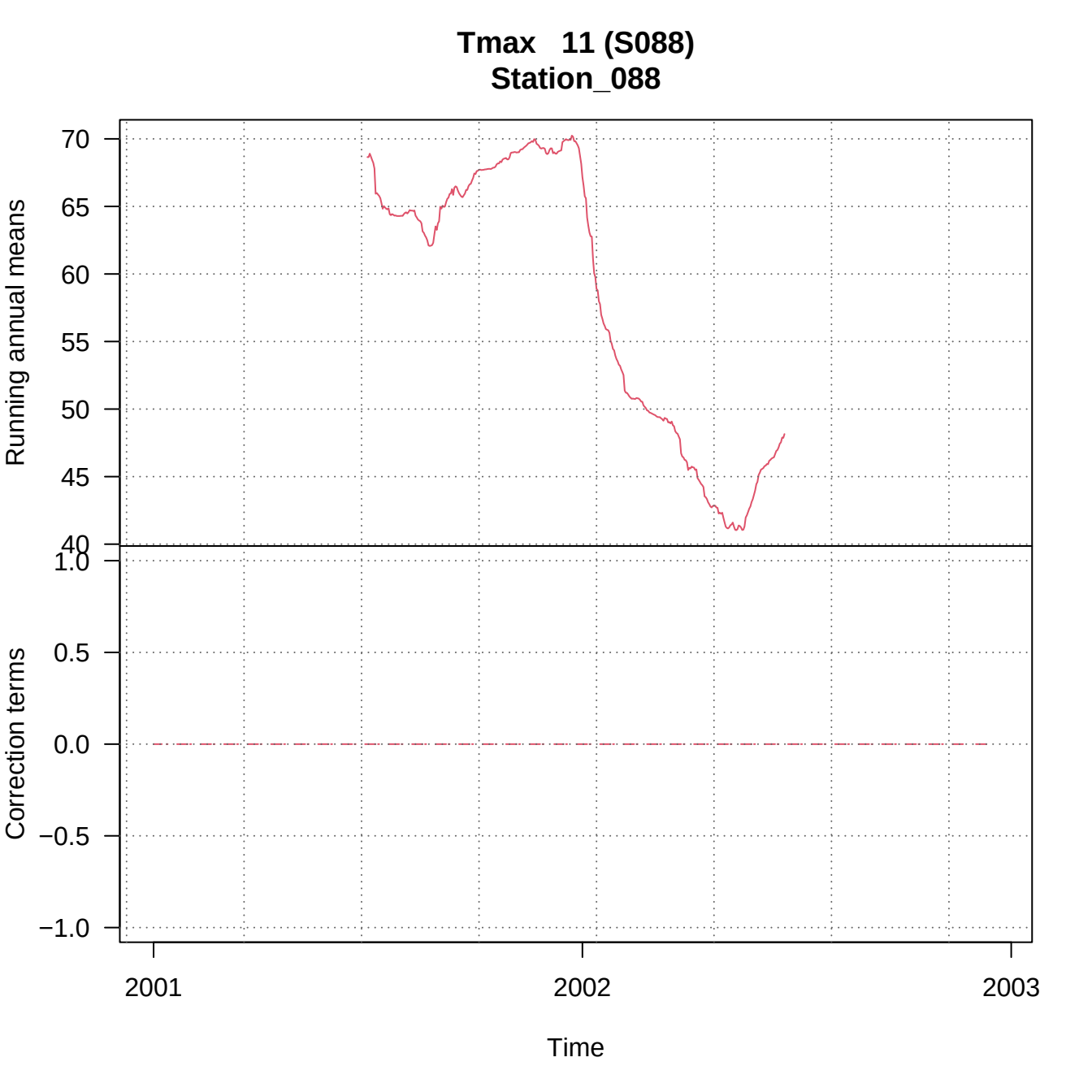

Tmax 6 (S069)
Station_069
Running annual means
60
55
50
45
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

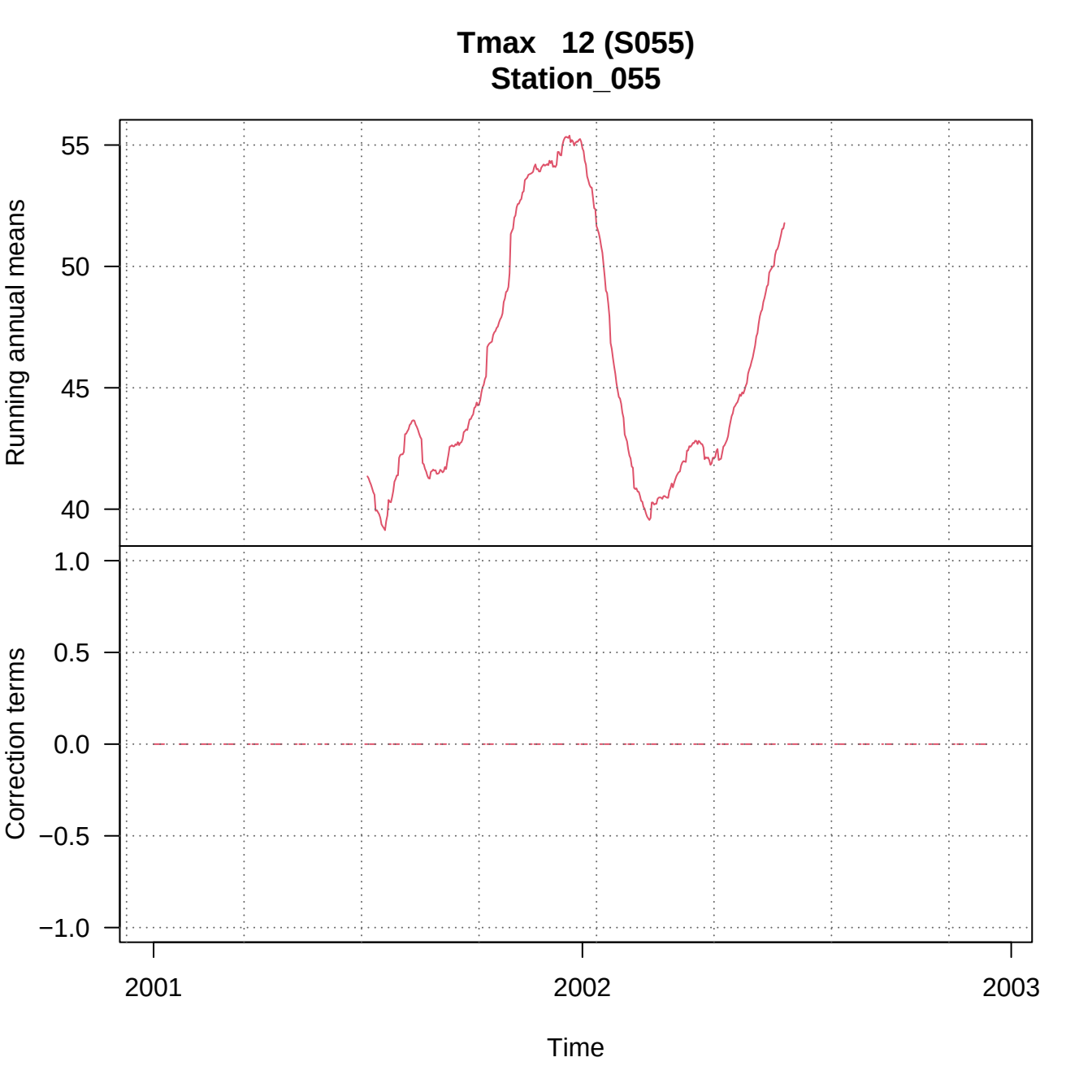

Tmax 7 (S058)
Station_058
Running annual means
65
60
55
50
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

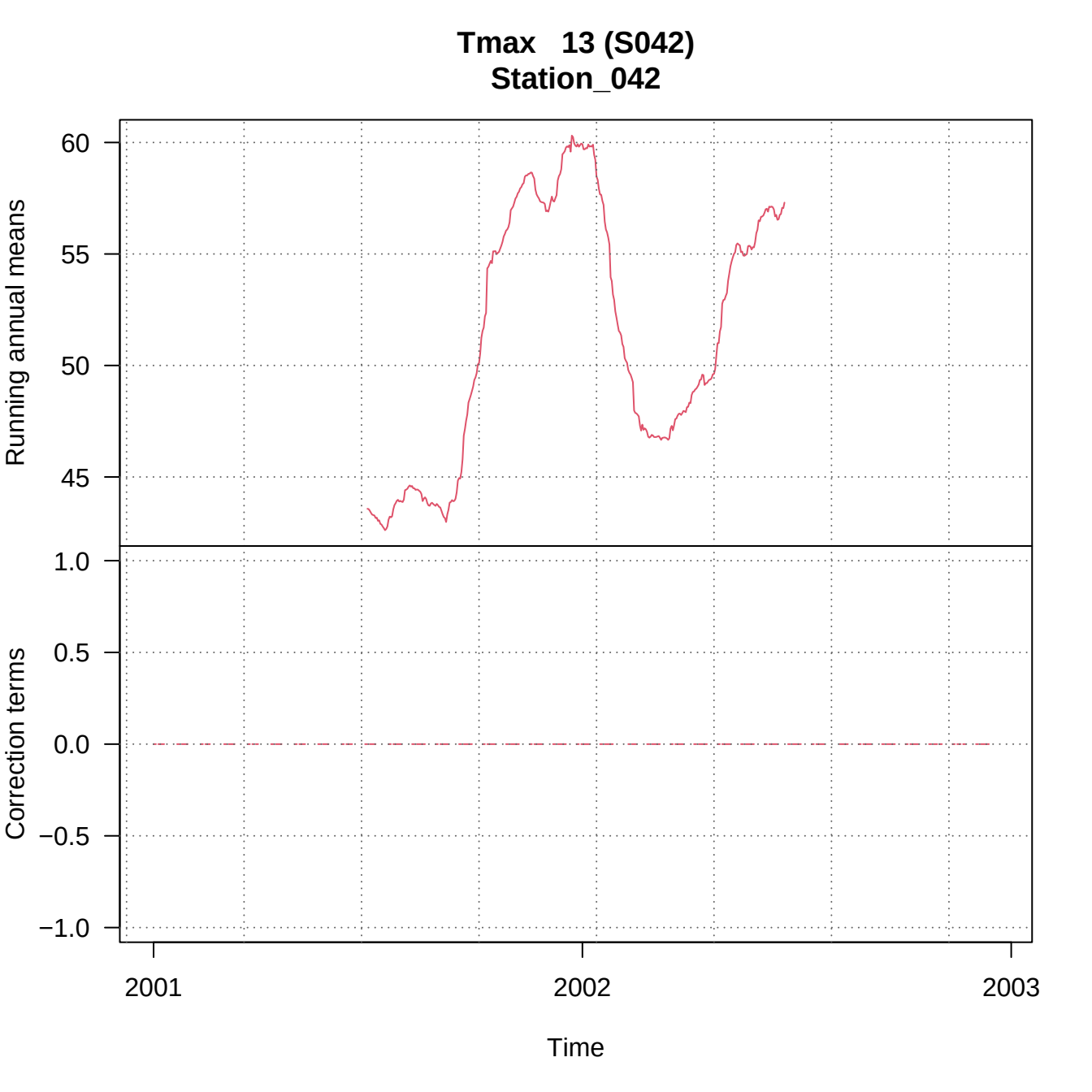

Tmax 8 (S095)
Station_095
Running annual means
65
60
55
50
45
40
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

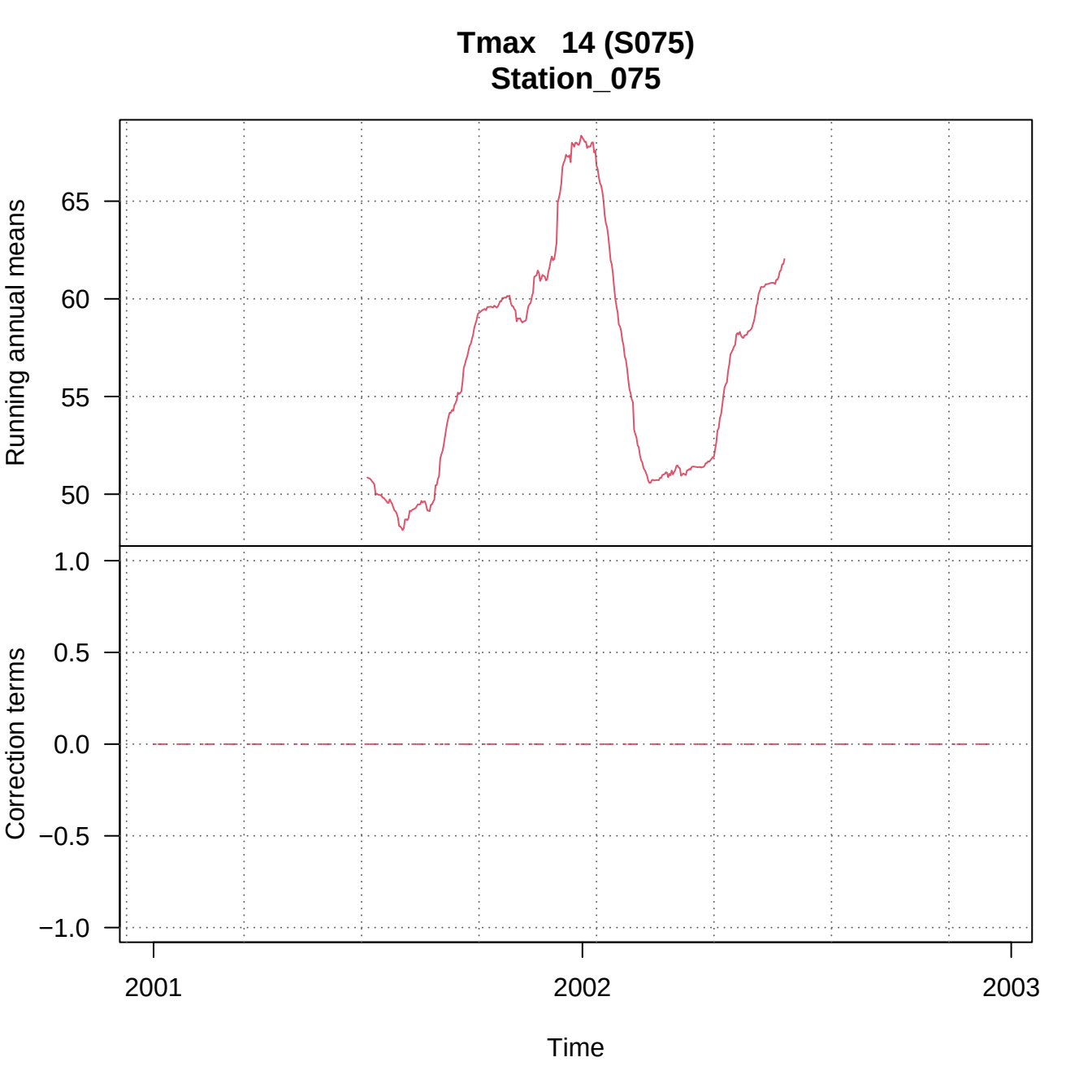

Tmax 9 (S039)
Station_039
Running annual means
65
60
55
50
45
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

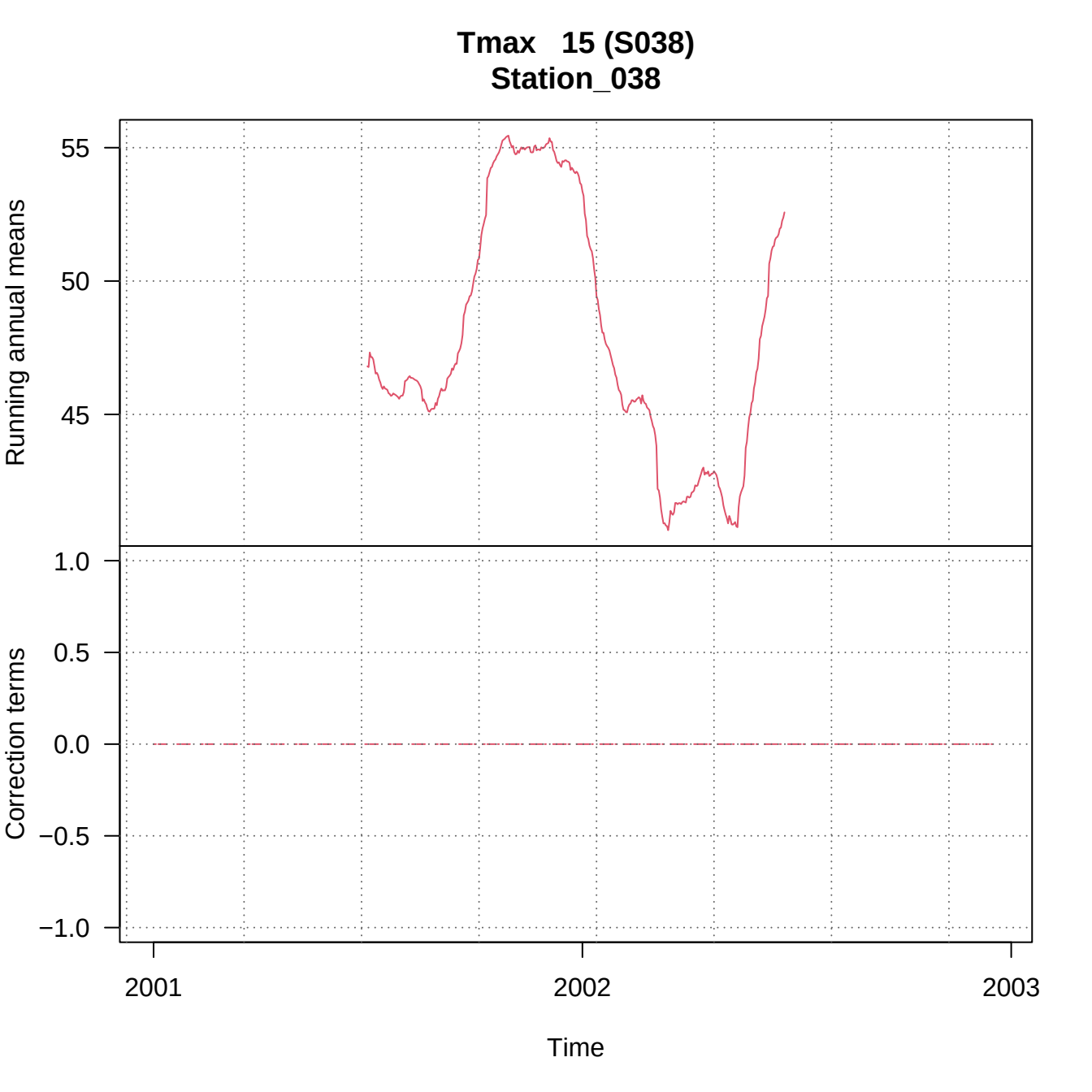

Tmax 10 (S034)
Station_034
Running annual means
70
65
60
55
50
45
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

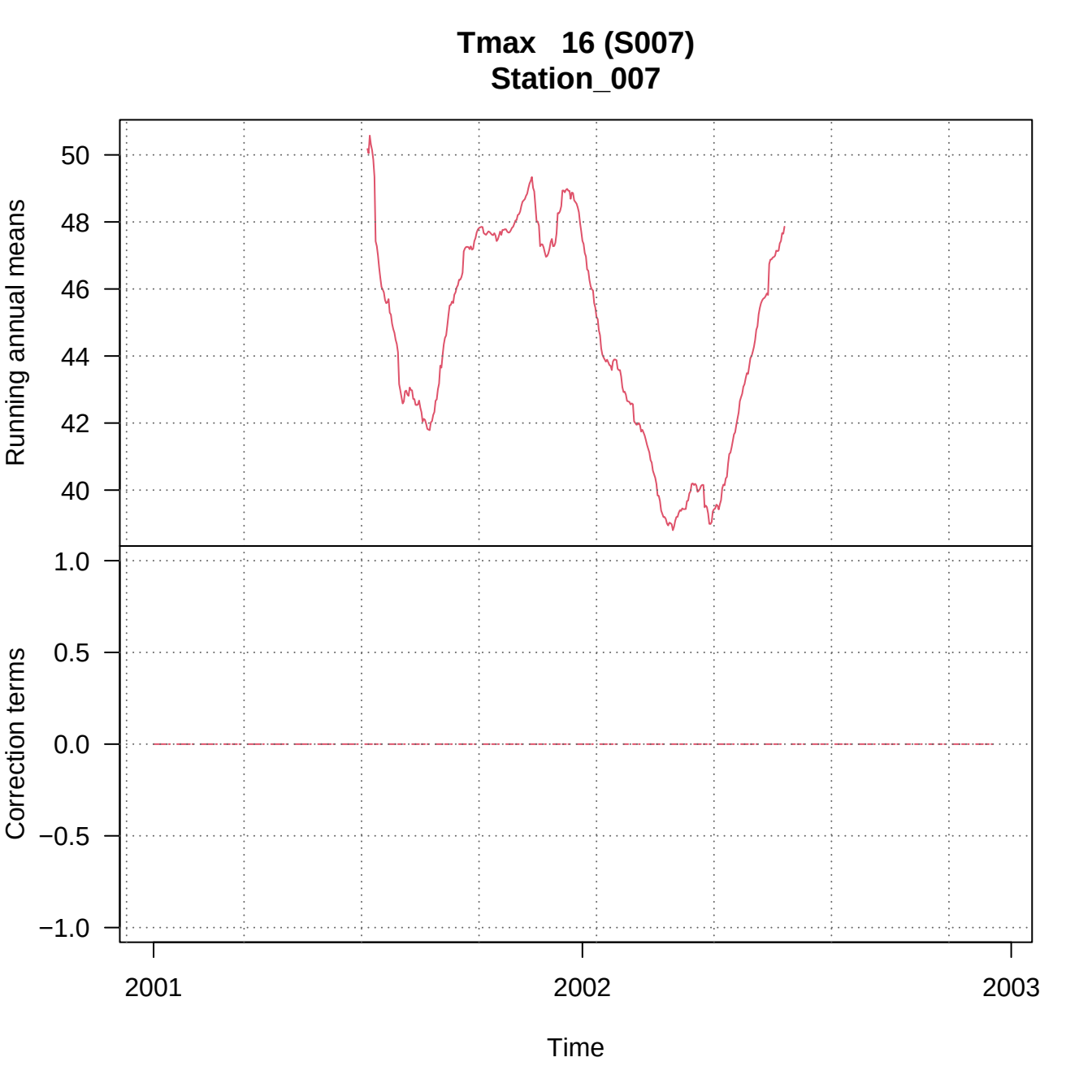

Tmax 11 (S088)
Station_088
Running annual means
70
65
60
55
50
45
40
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

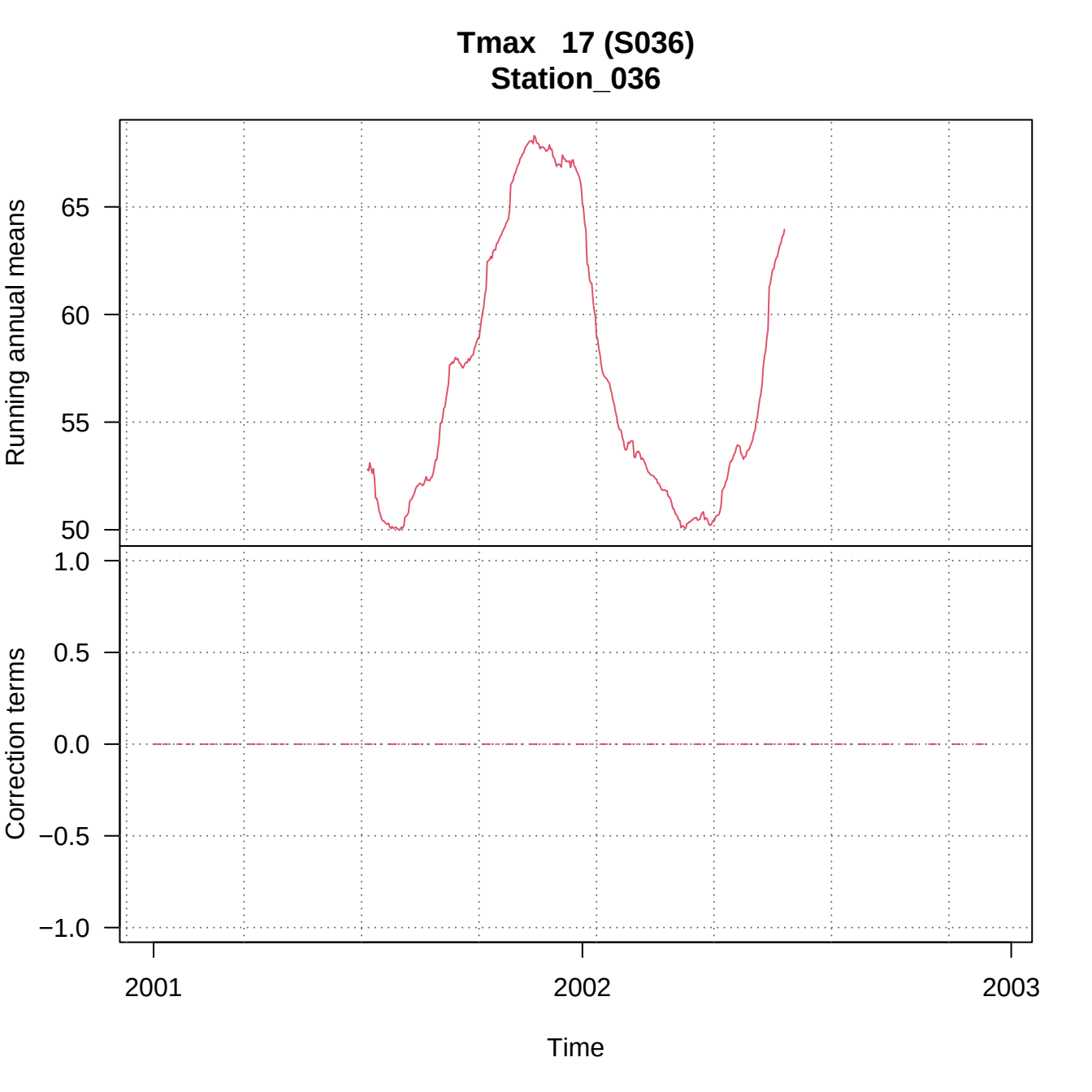

Tmax 12 (S055)
Station_055
Running annual means
55
50
45
40
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

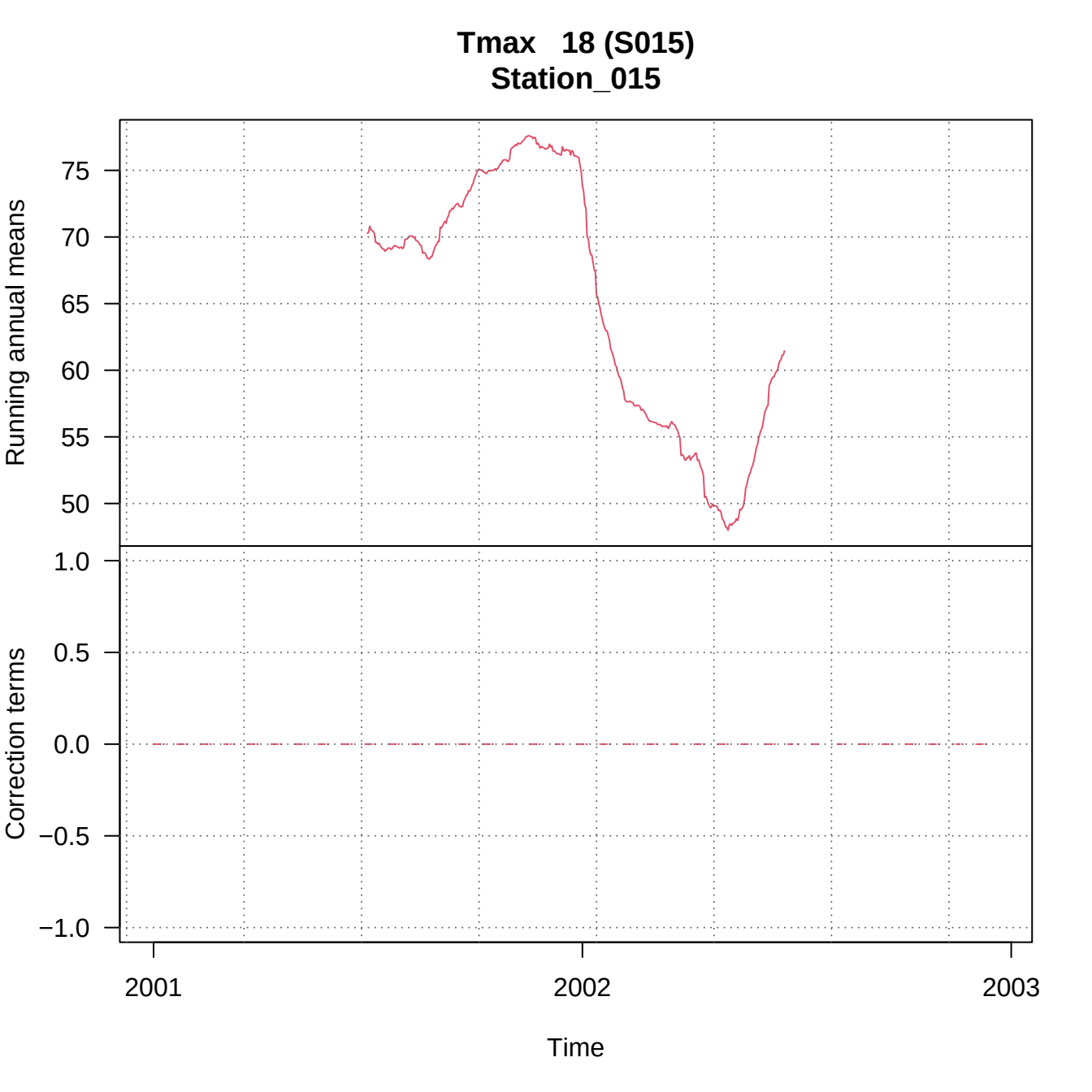

Tmax 13 (S042)
Station_042
Running annual means
60
55
50
45
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

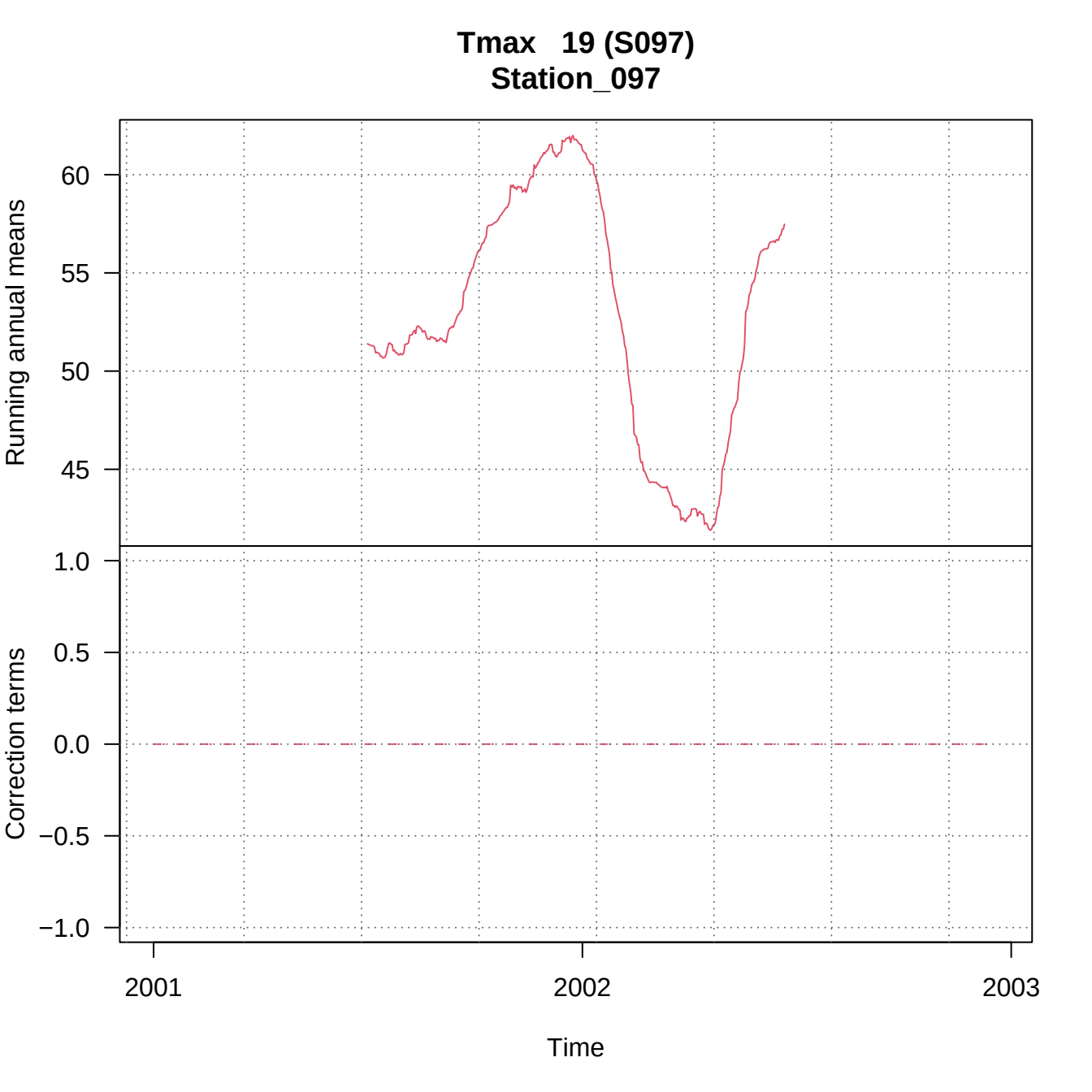

Tmax 14 (S075)
Station_075
Running annual means
65
60
55
50
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

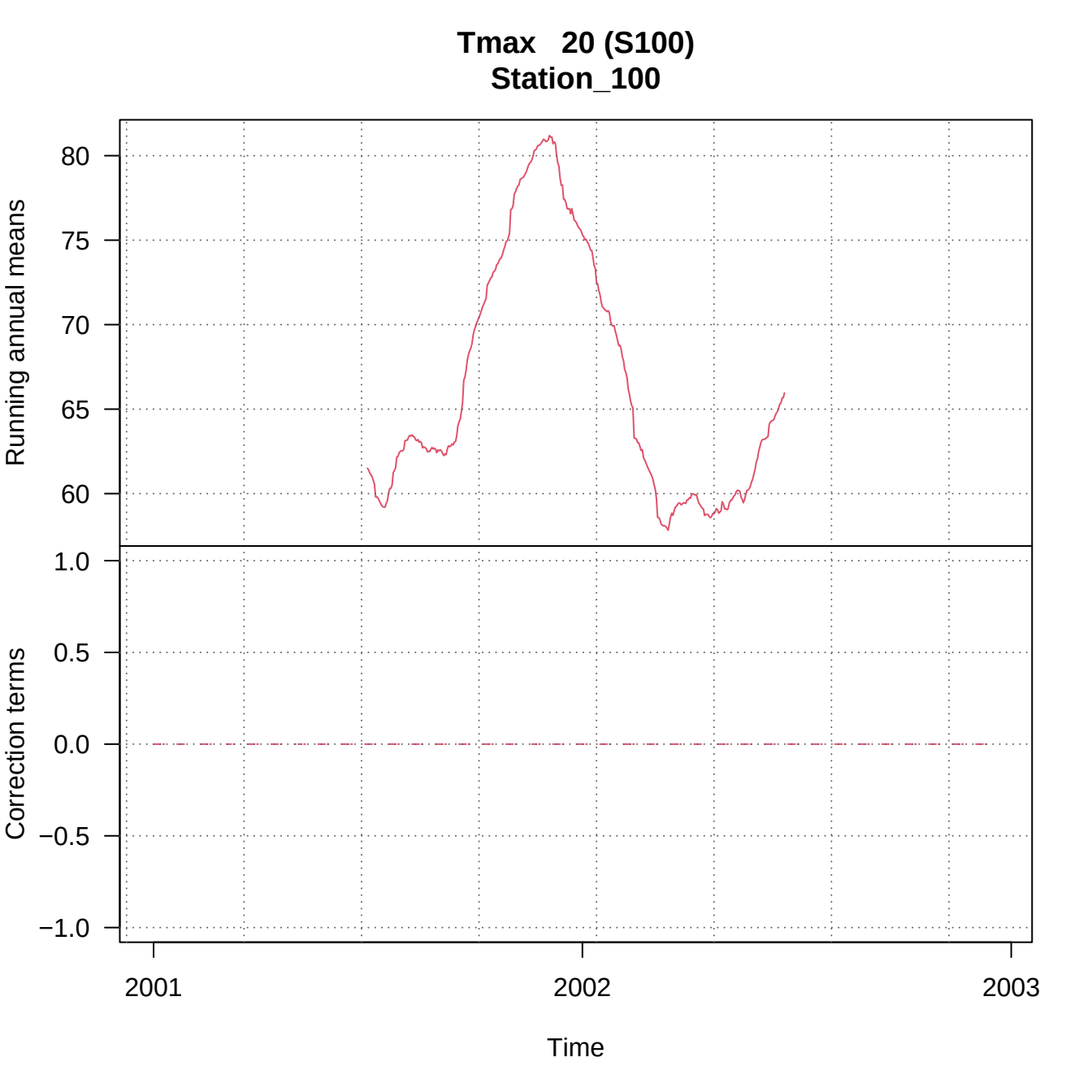

Tmax 15 (S038)
Station_038
Running annual means
55
50
45
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

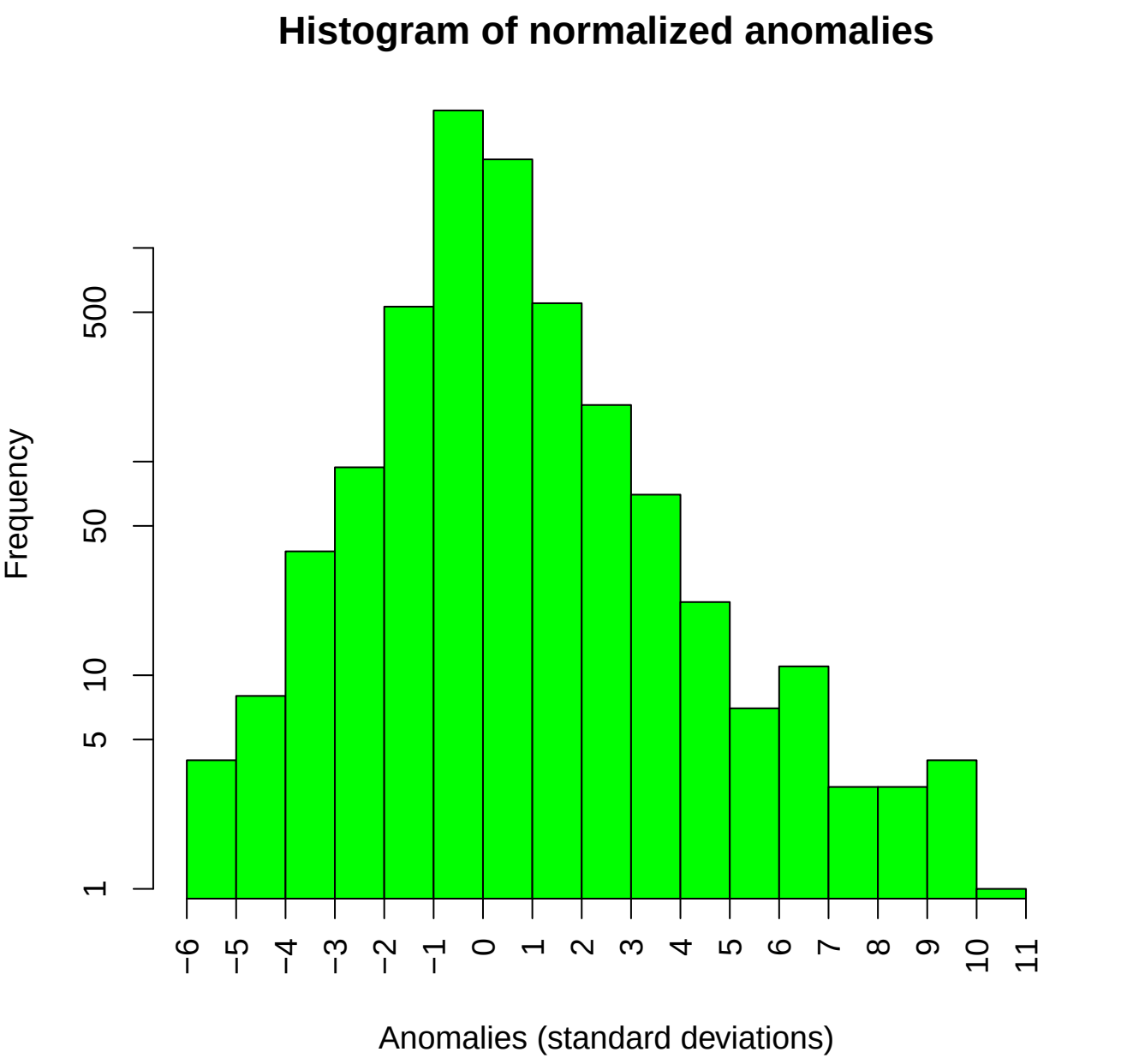

Tmax 16 (S007)
Station_007
Running annual means
50
48
46
44
42
40
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

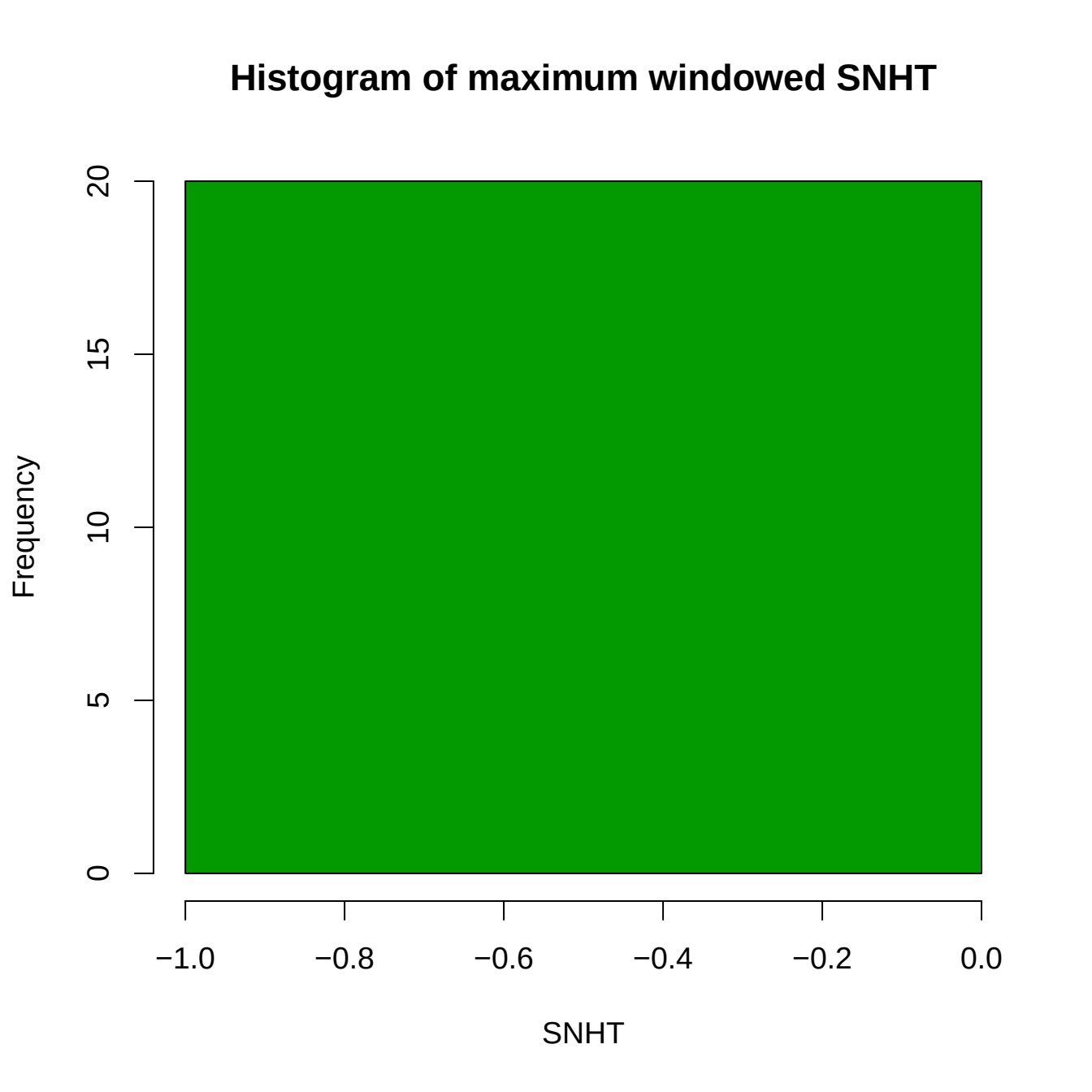

Tmax 17 (S036)
Station_036
Running annual means
65
60
55
50
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

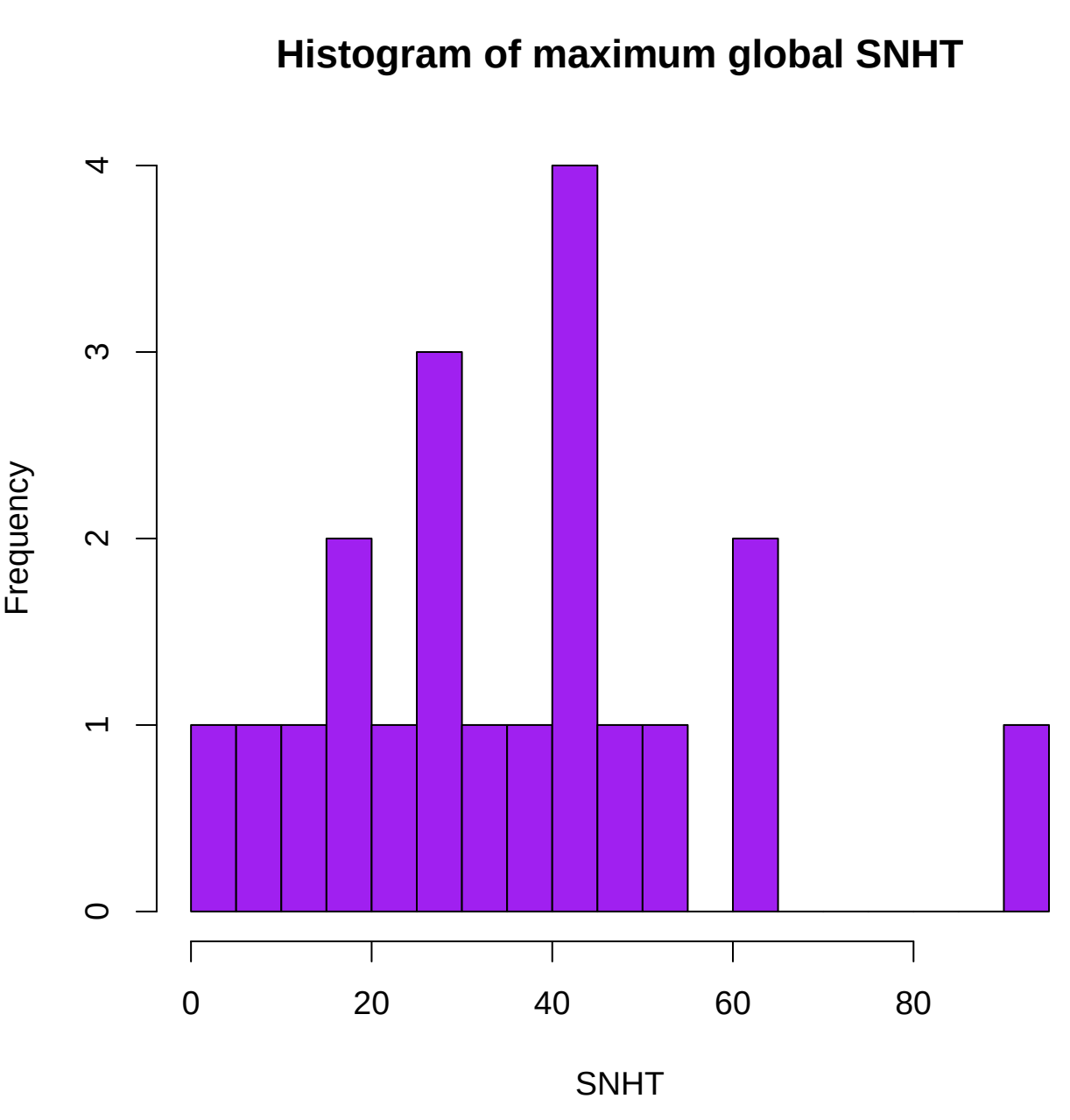

Tmax 18 (S015)
Station_015
Running annual means
75
70
65
60
55
50
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time

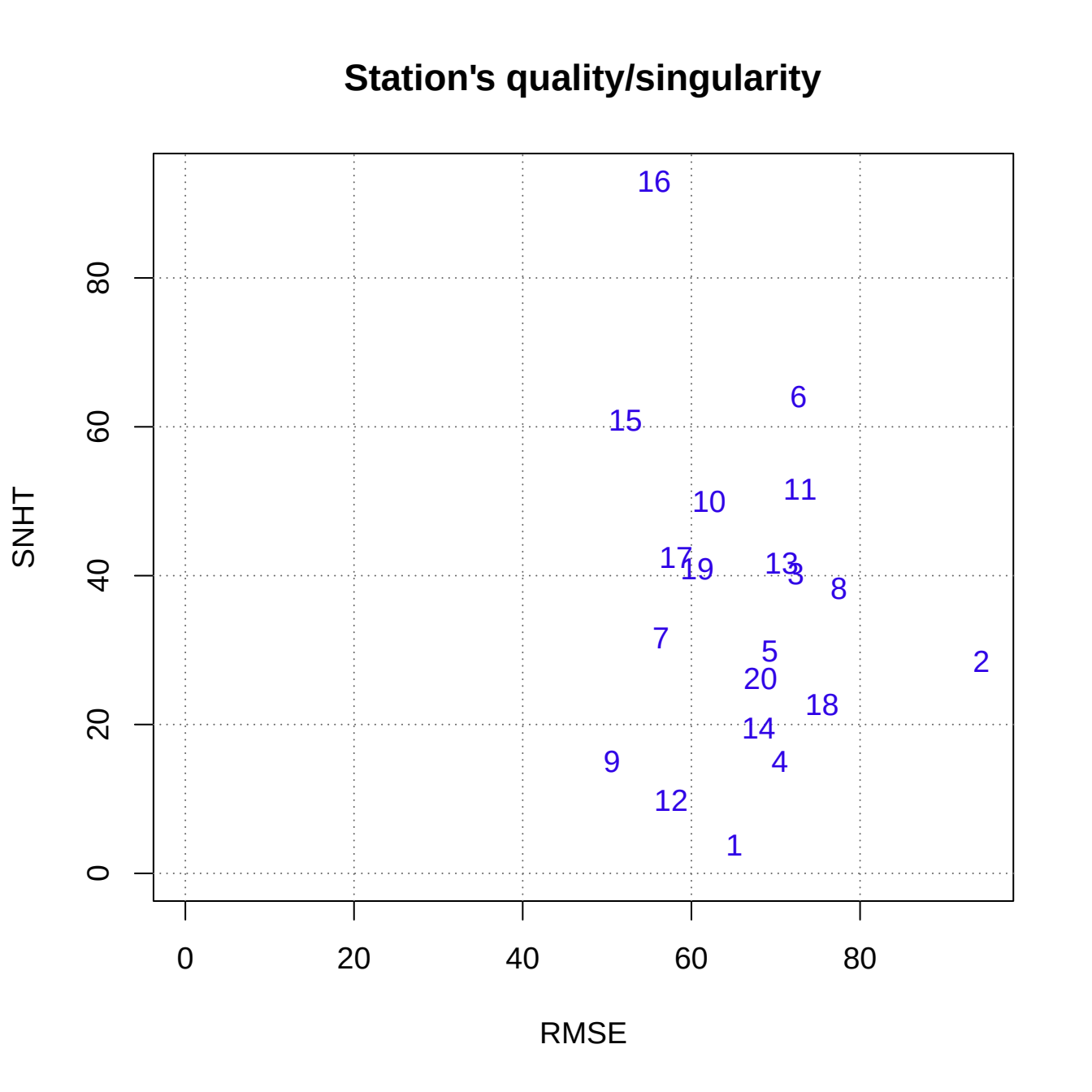

Tmax 19 (S097)
Station_097
Running annual means
60
55
50
45
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time


Tmax 20 (S100)
Station_100
Running annual means
80
75
70
65
60
Correction terms
1.0
0.5
0.0
−0.5
−1.0
2001
2002
2003
Time


Histogram of normalized anomalies
Frequency
1
5
10
50
500
−6
−5
−4
−3
−2
−1
0
1
2
3
4
5
6
7
8
9
10
11
Anomalies (standard deviations)


Histogram of maximum windowed SNHT
Frequency
0
5
10
15
20
−1.0
−0.8
−0.6
−0.4
−0.2
0.0
SNHT


Histogram of maximum global SNHT
Frequency
0
1
2
3
4
0
20
40
60
80
SNHT


Station's quality/singularity
SNHT
RMSE
0
20
40
60
80
16
6
15
11
10
17
19
13
3
8
7
5
2
20
18
14
9
4
12
1