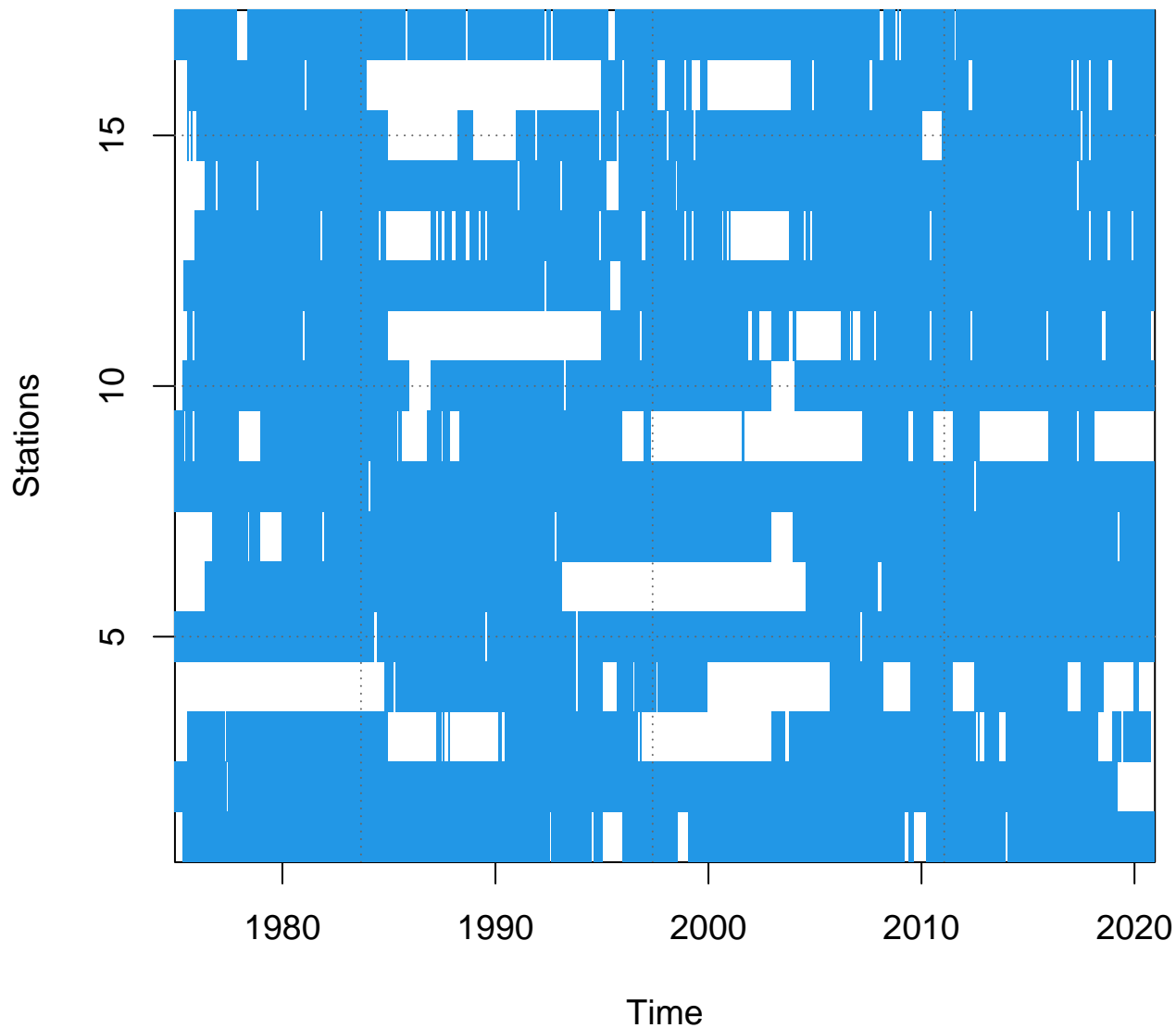


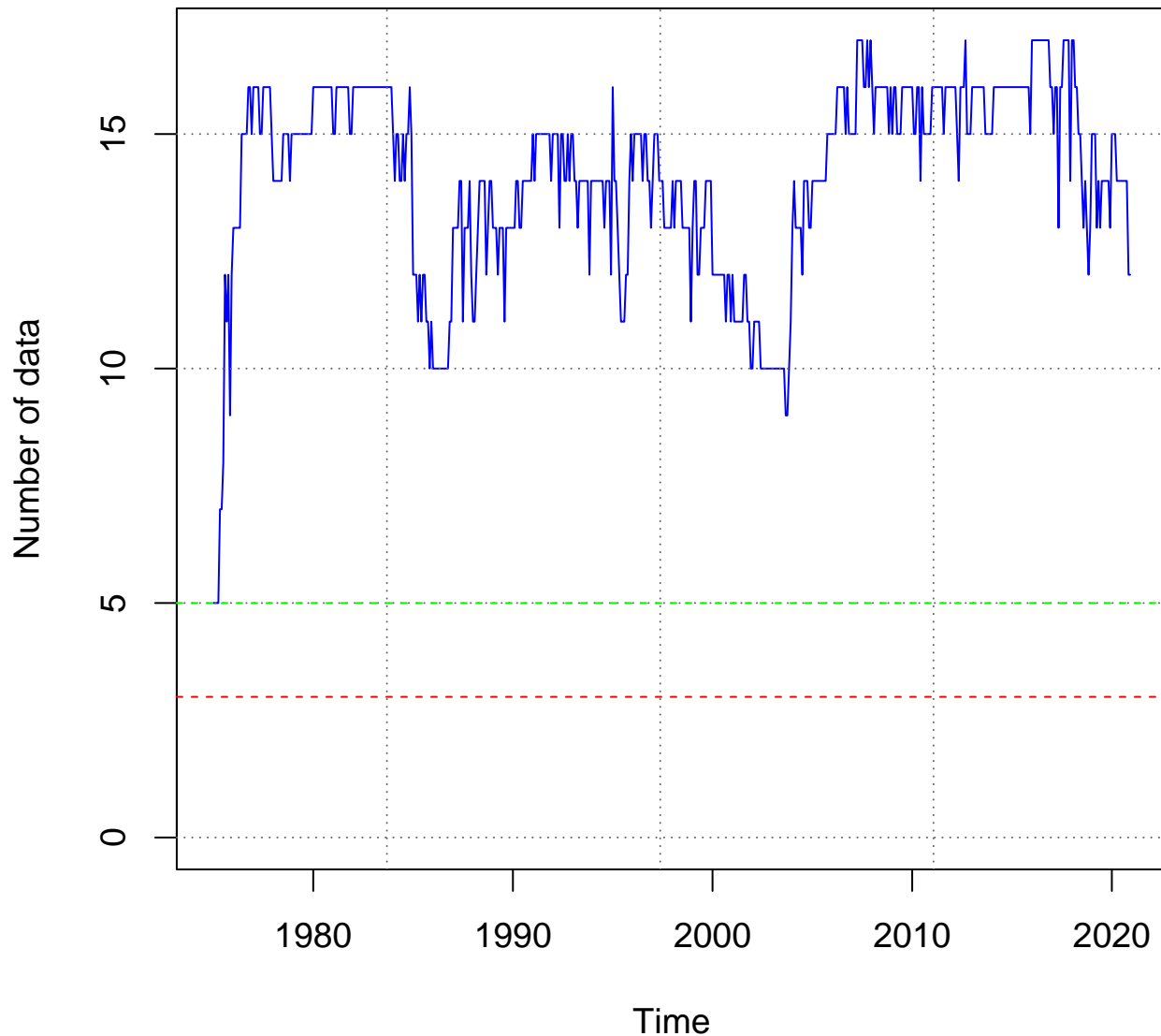
# CLIMATOL 3.1.1

Homogenization  
graphic output of  
pre-m  
1975–2020

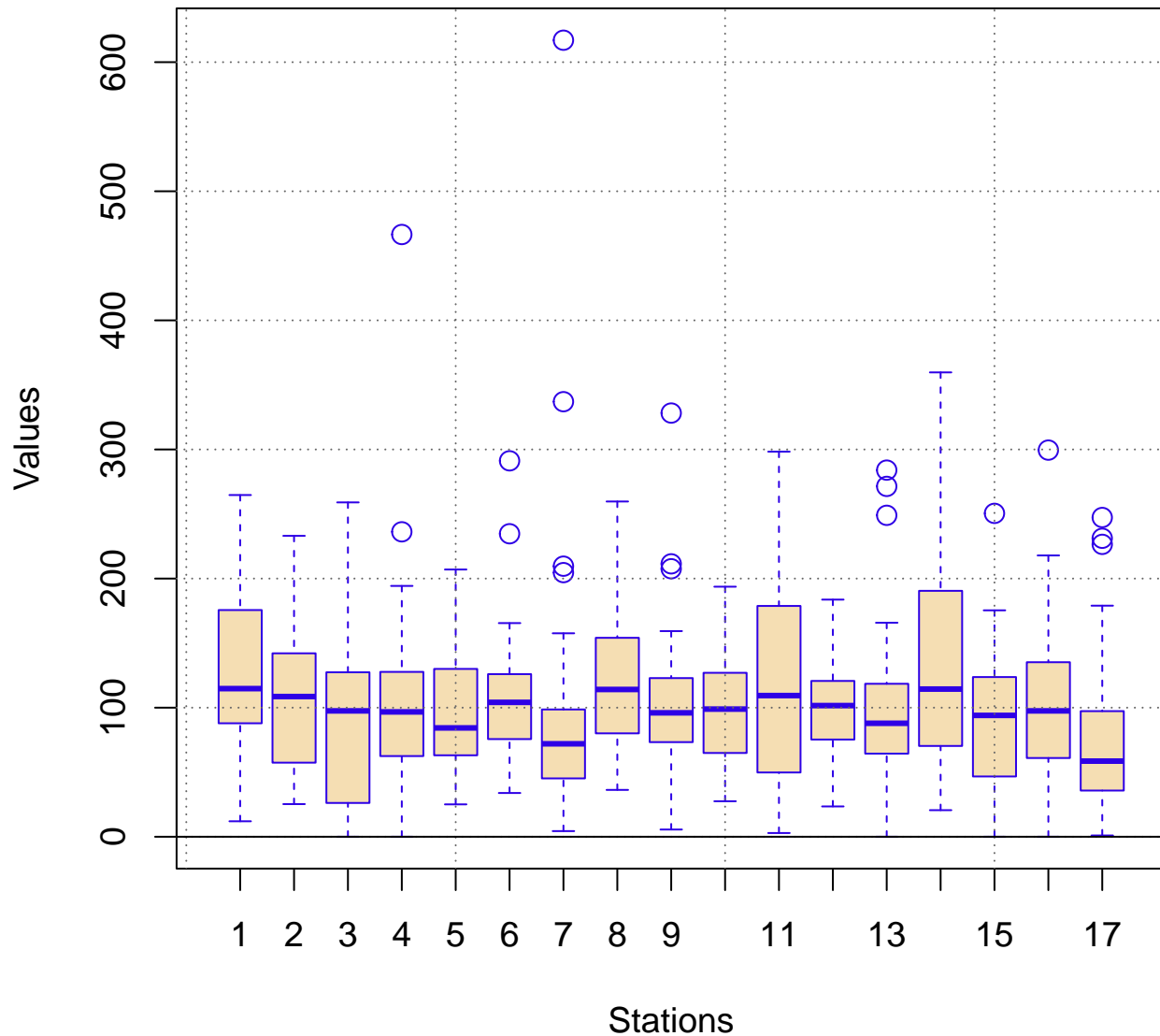
# pre-m data availability



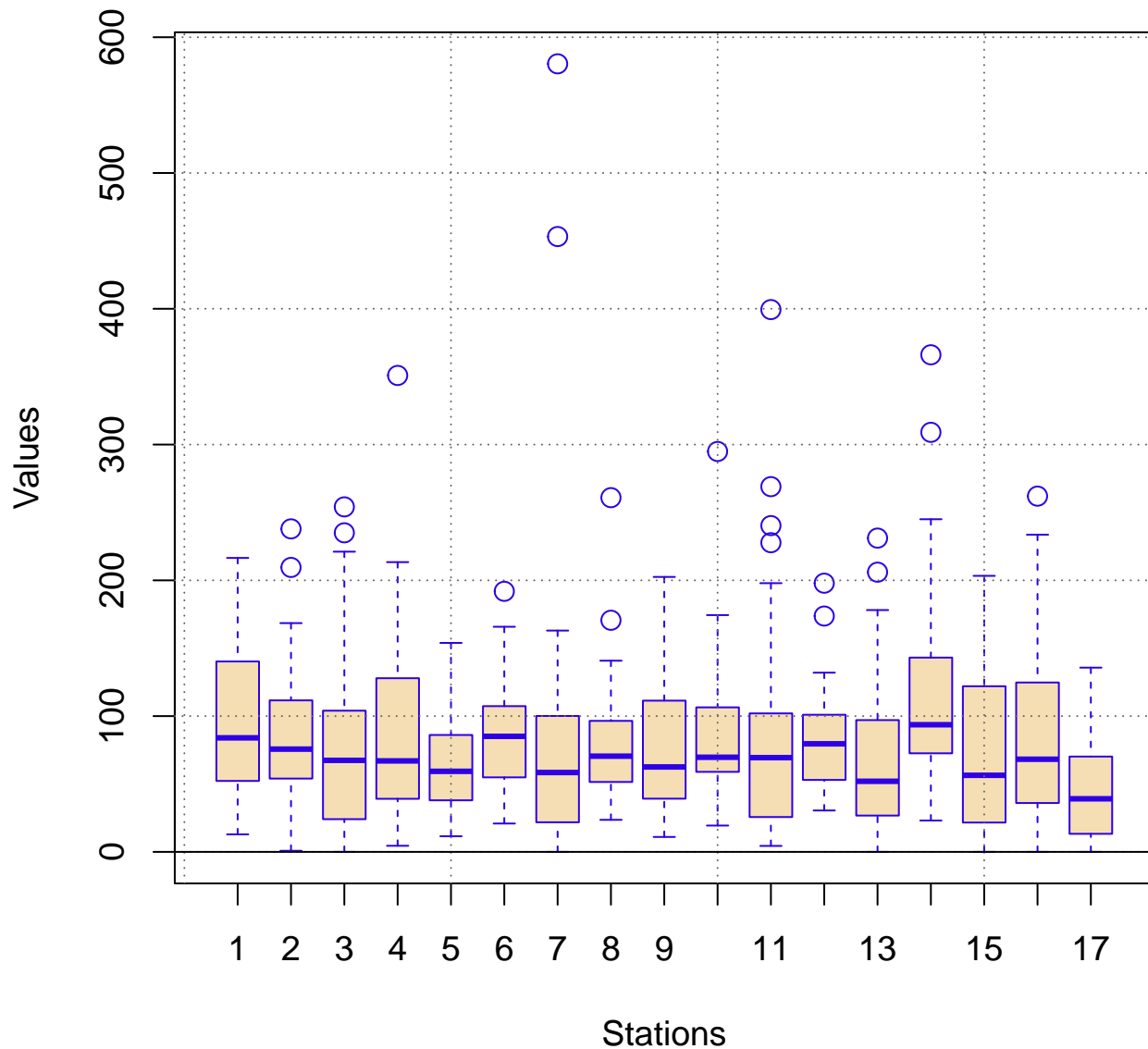
# Number of pre-m data in all stations



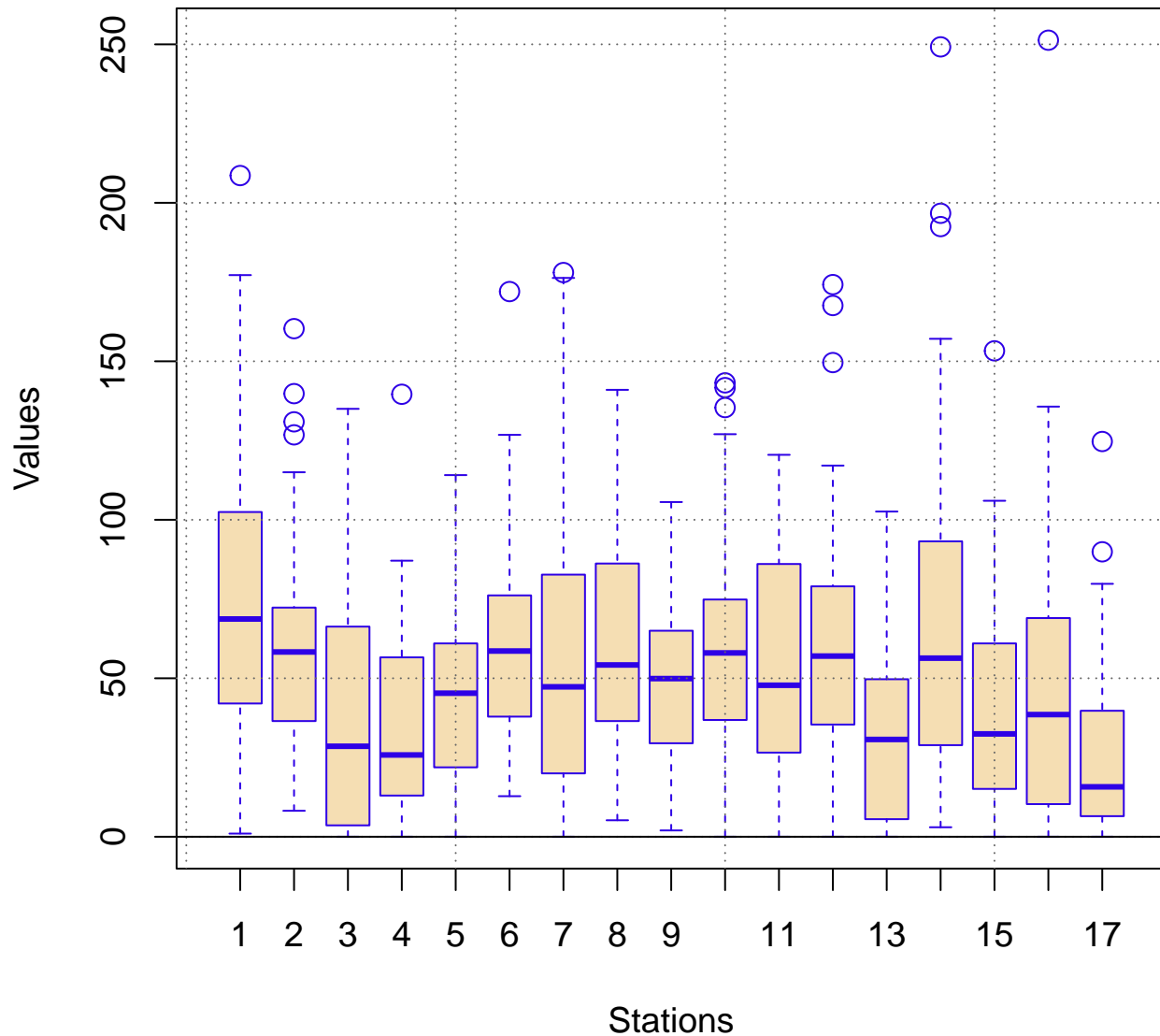
**Data values of pre-m (Jan)**



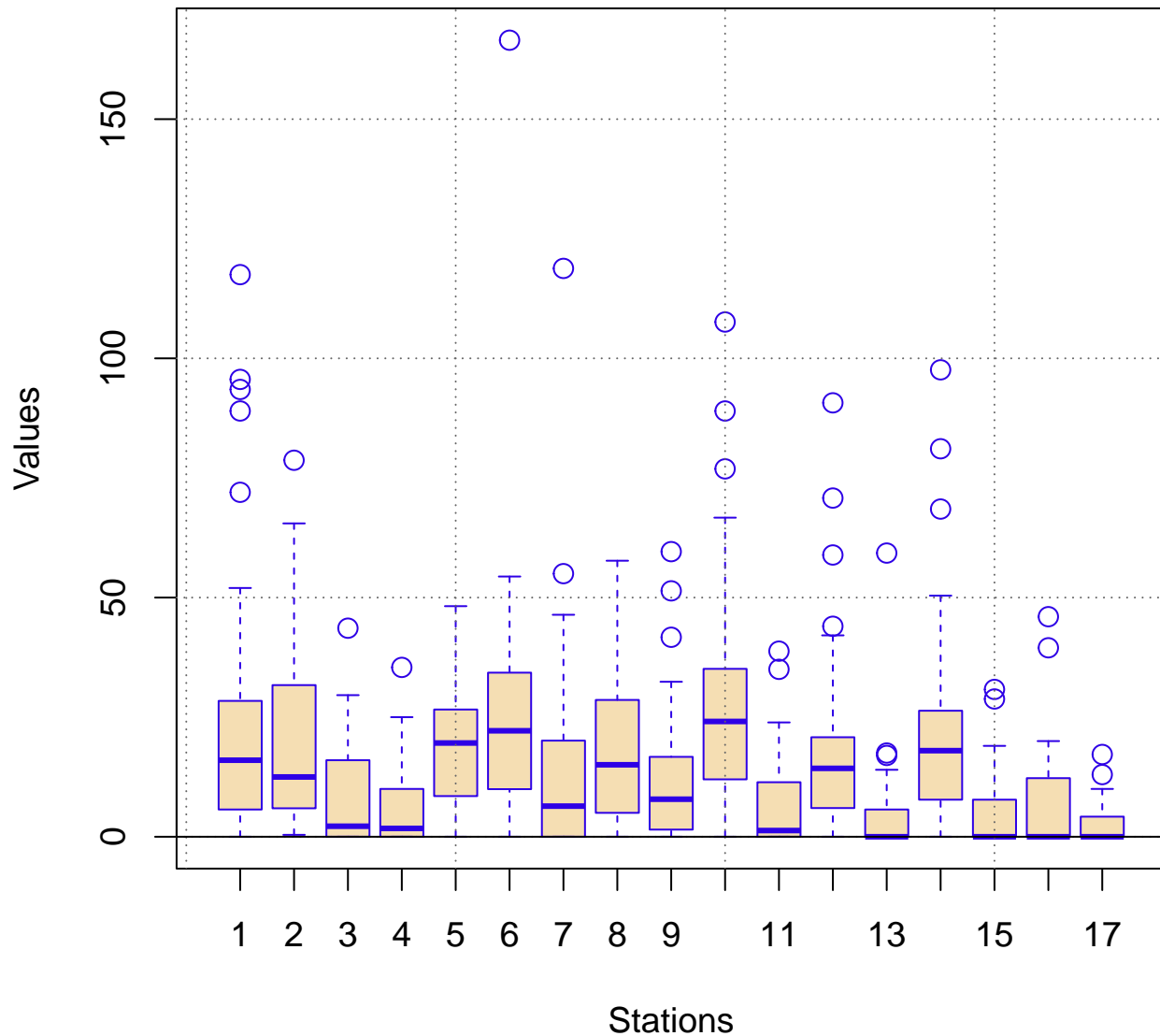
**Data values of pre-m (Feb)**



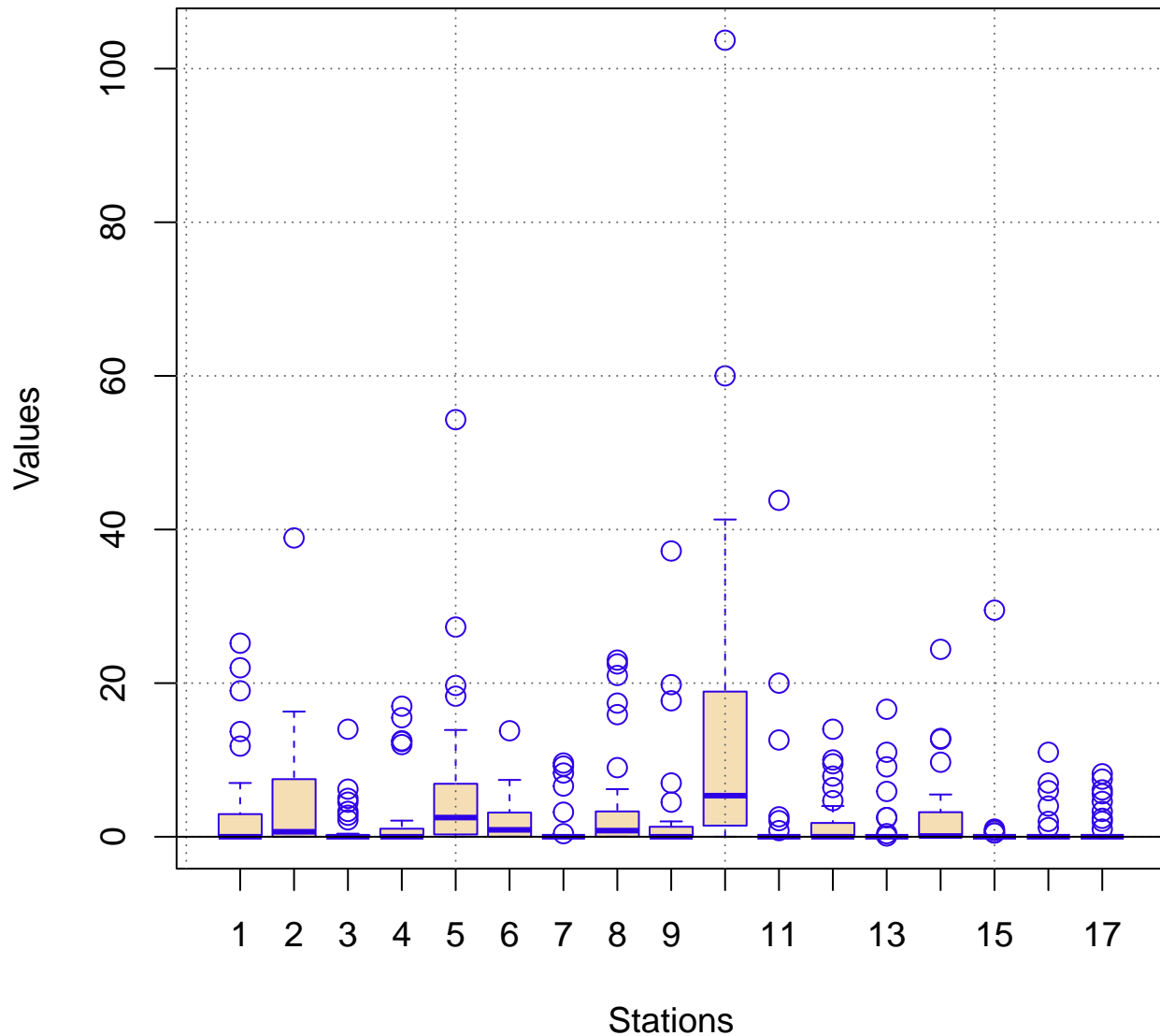
**Data values of pre-m (Mar)**



**Data values of pre-m (Apr)**

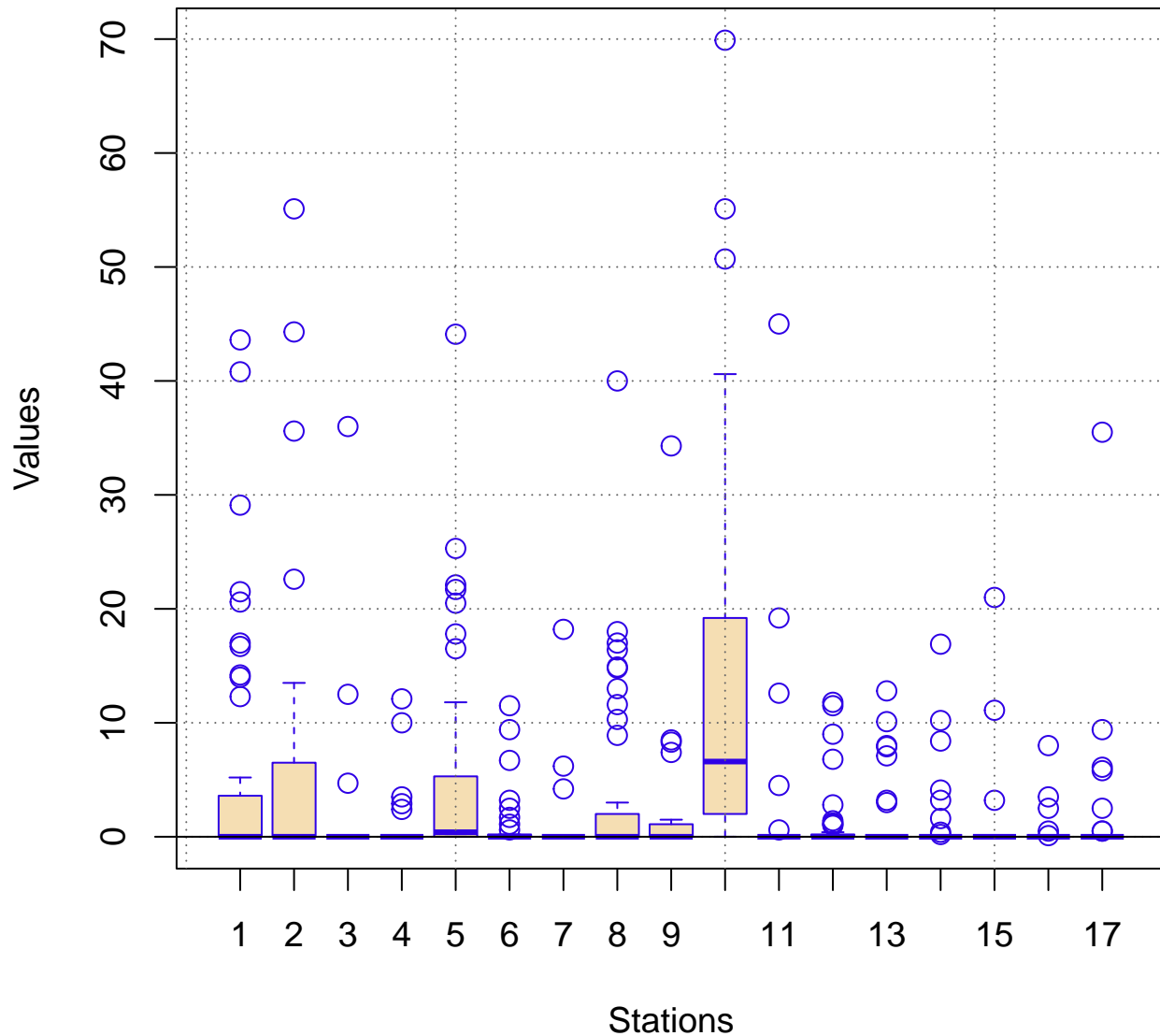


# Data values of pre-m (May)

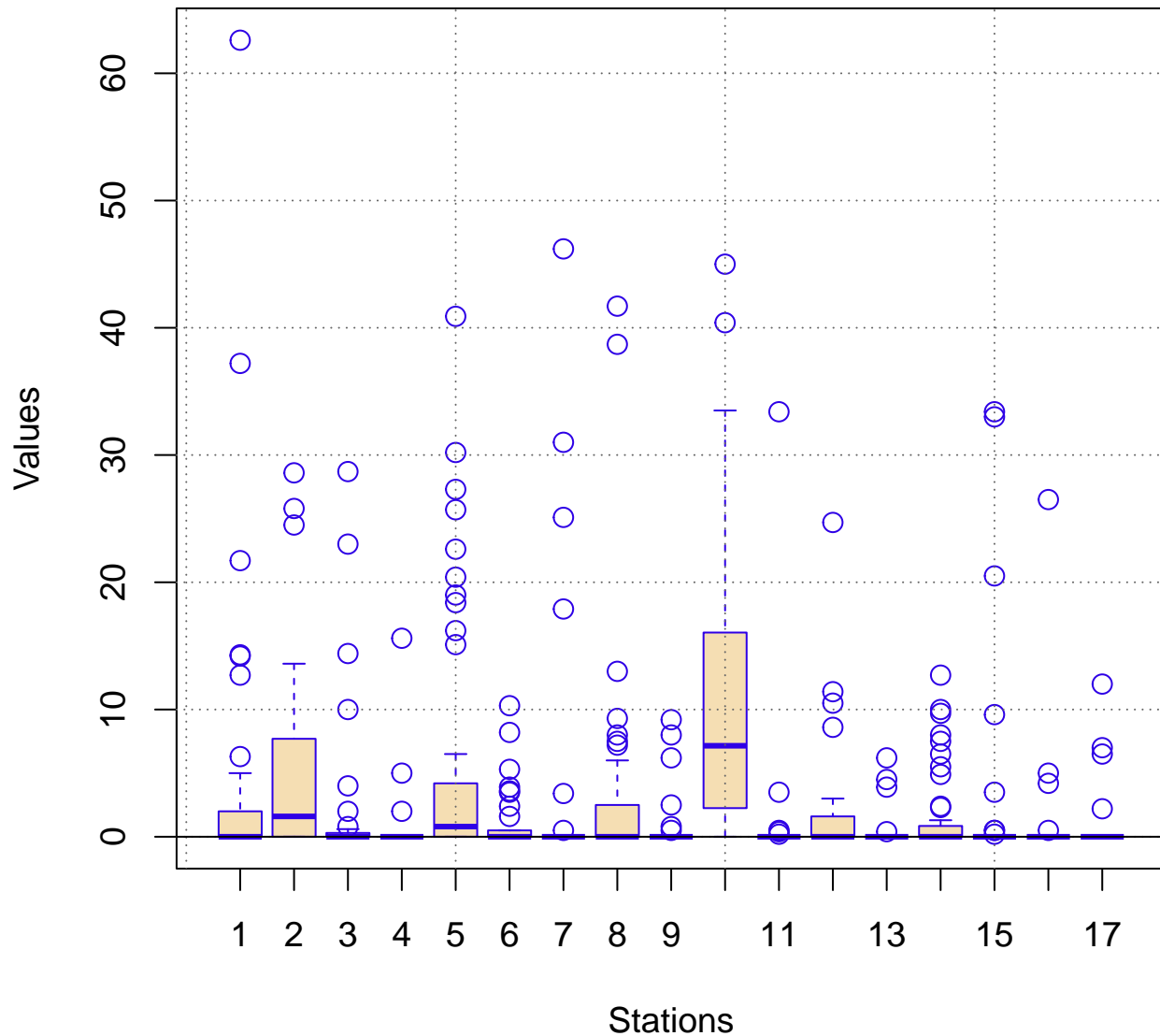




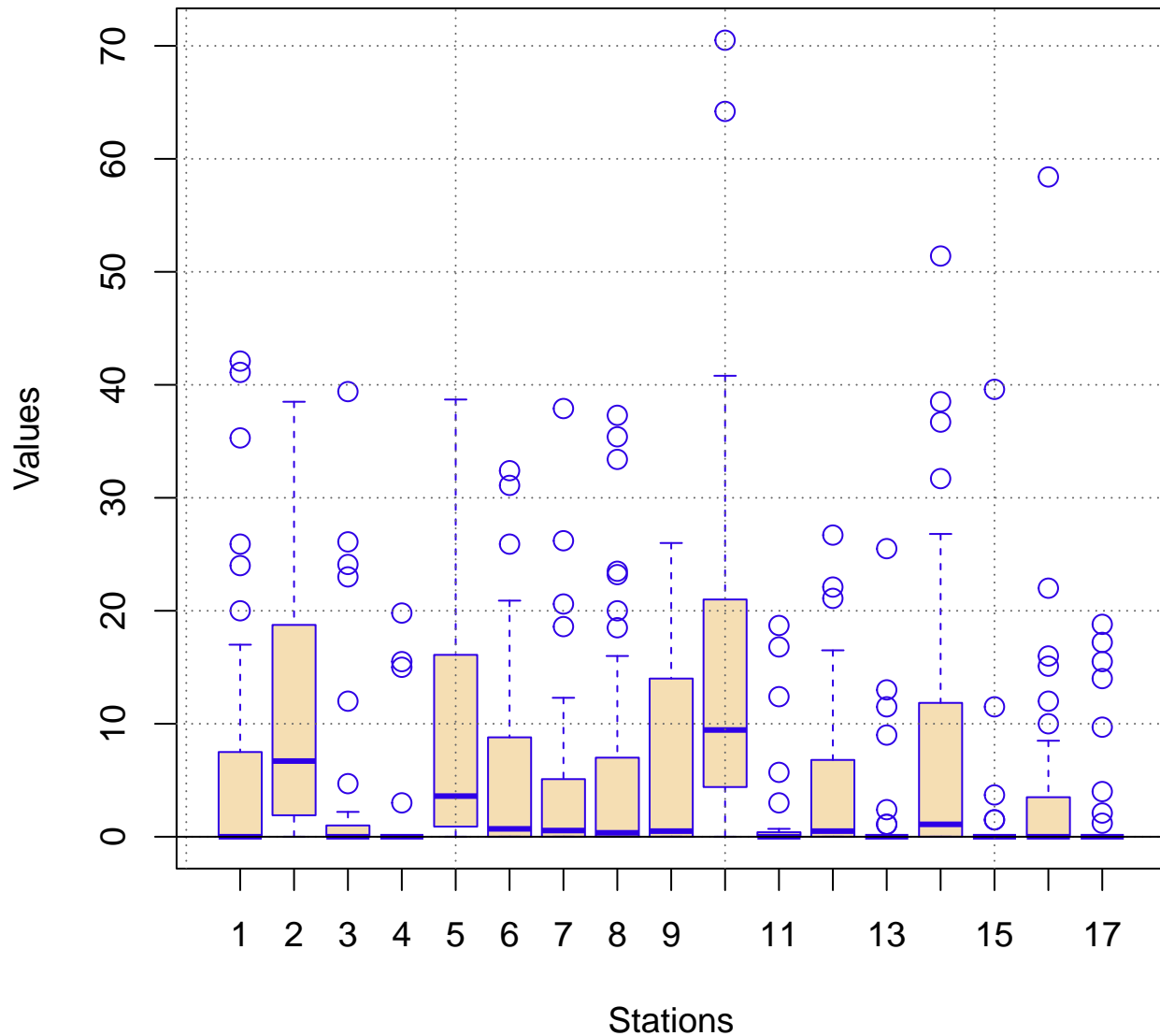
**Data values of pre-m (Jun)**



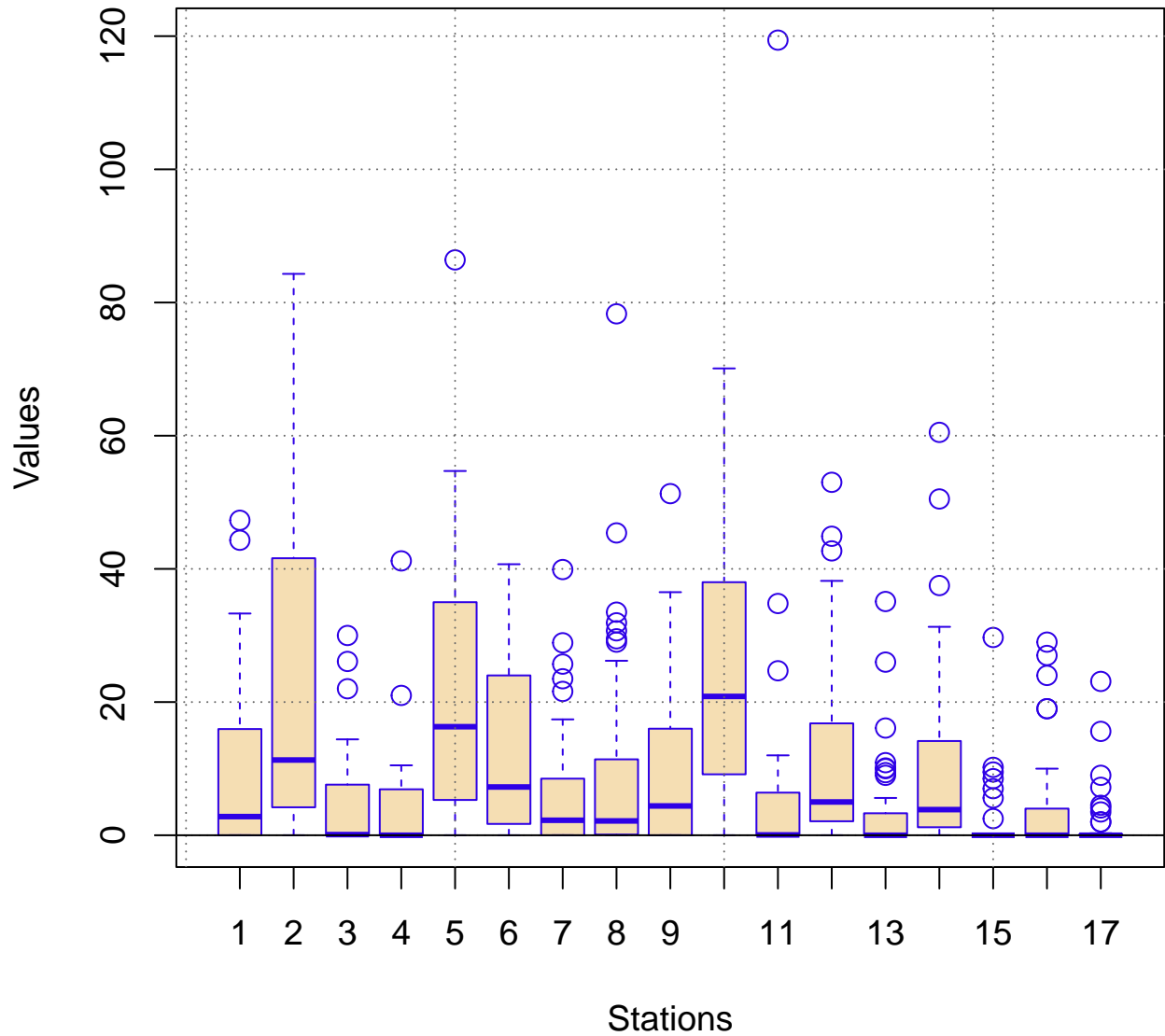
# Data values of pre-m (Jul)



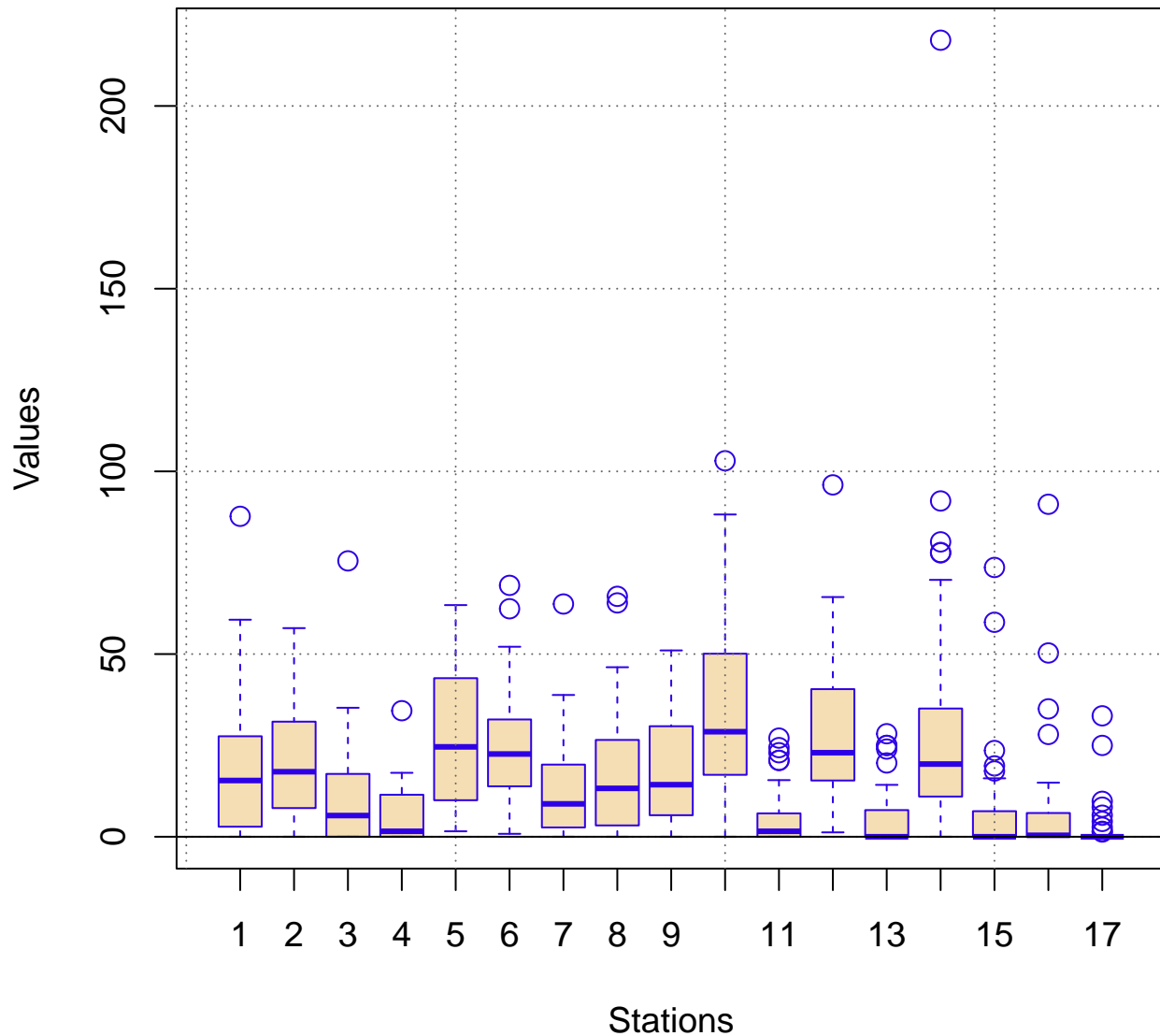
**Data values of pre-m (Aug)**



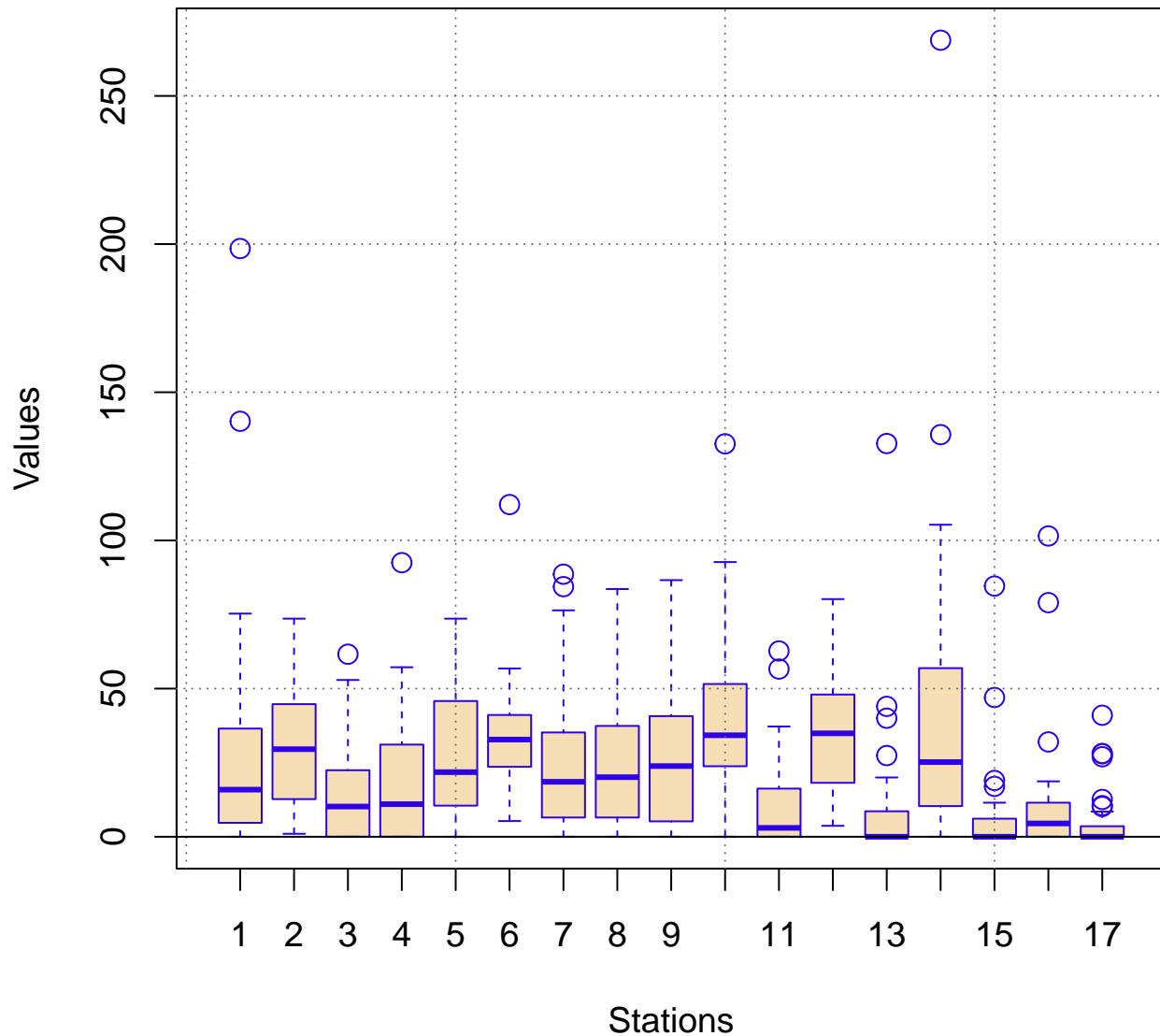
**Data values of pre-m (Sep)**



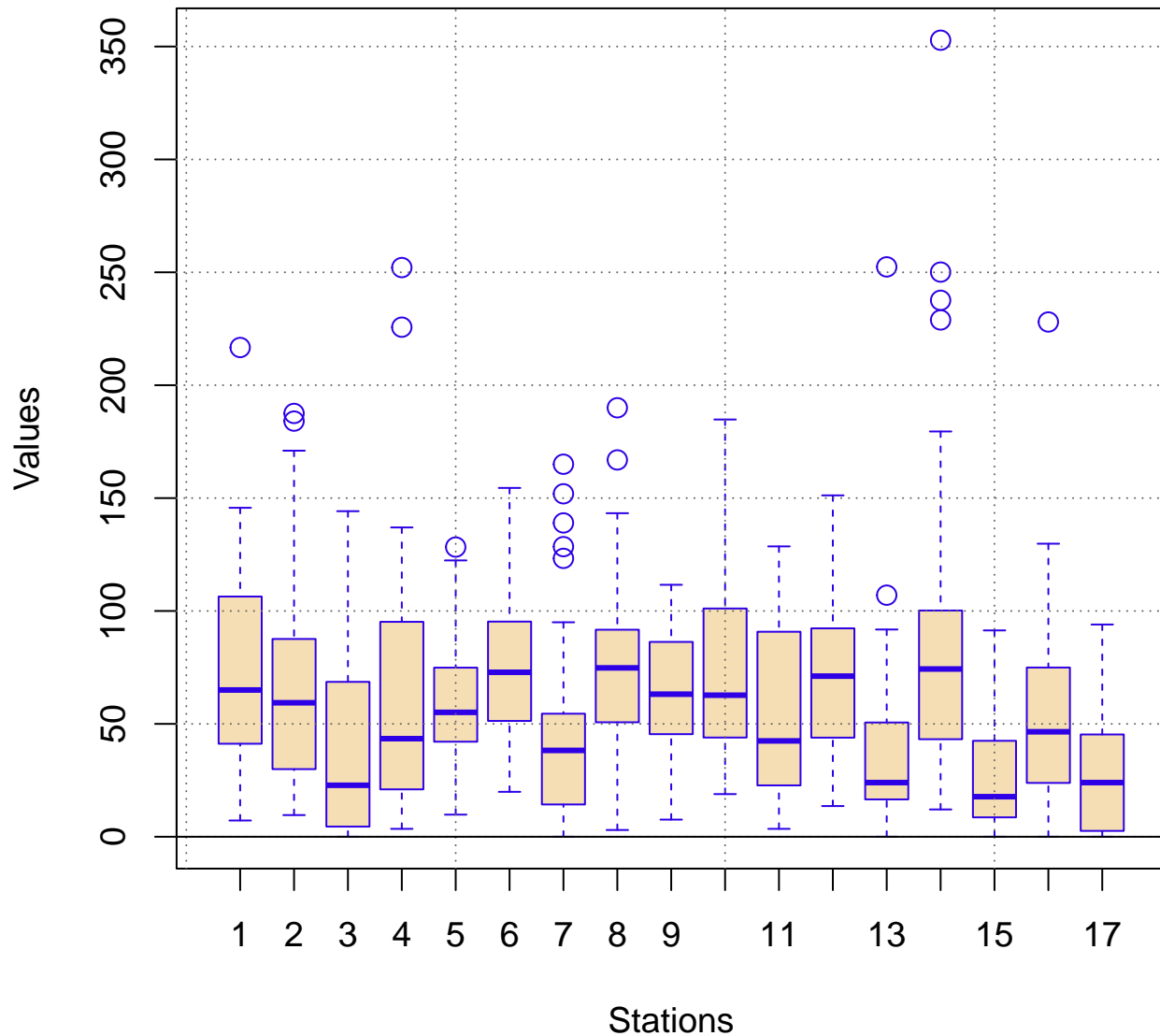
**Data values of pre-m (Oct)**



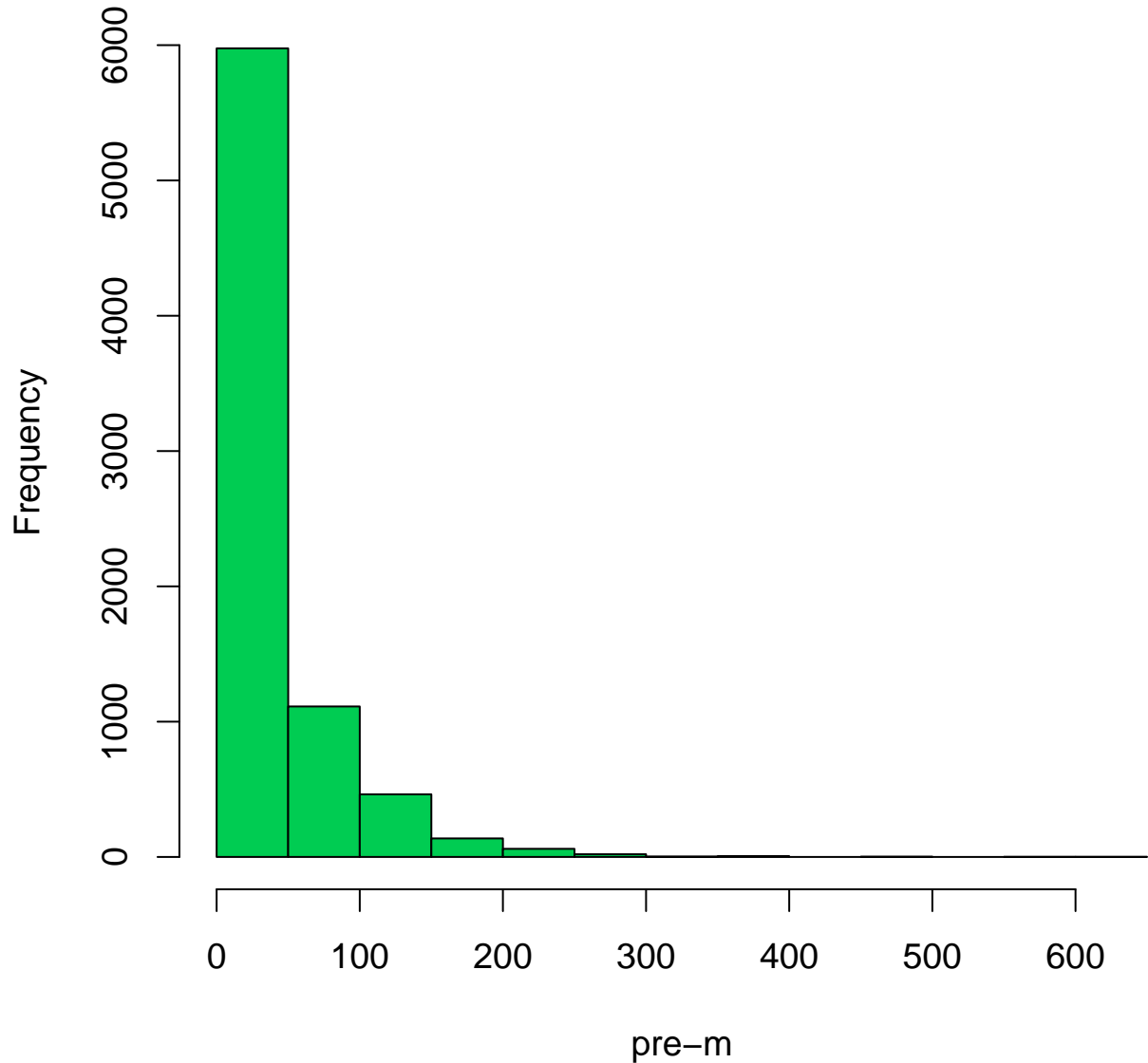
## Data values of pre-m (Nov)



**Data values of pre-m (Dec)**

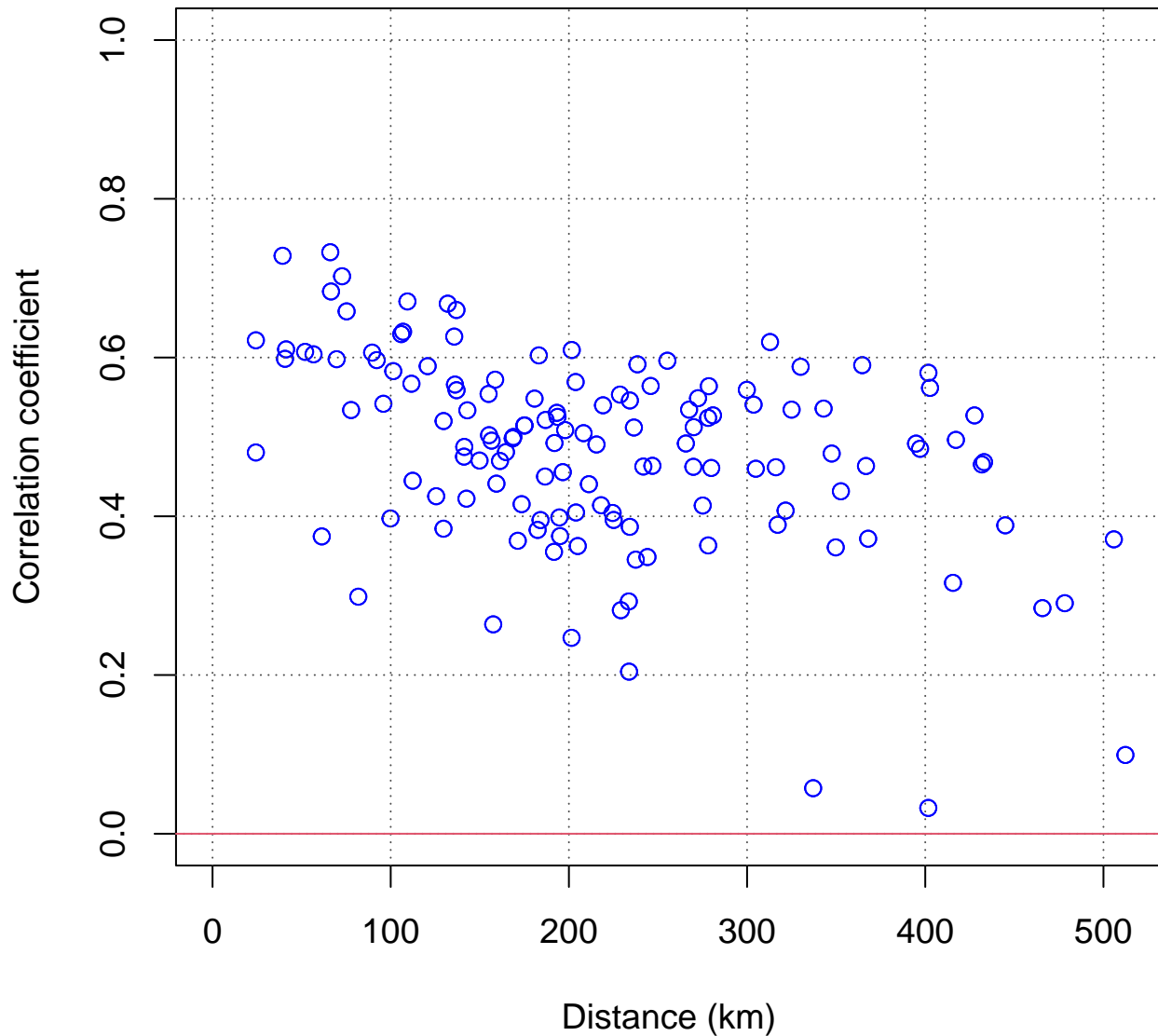


**Histogram of all data**

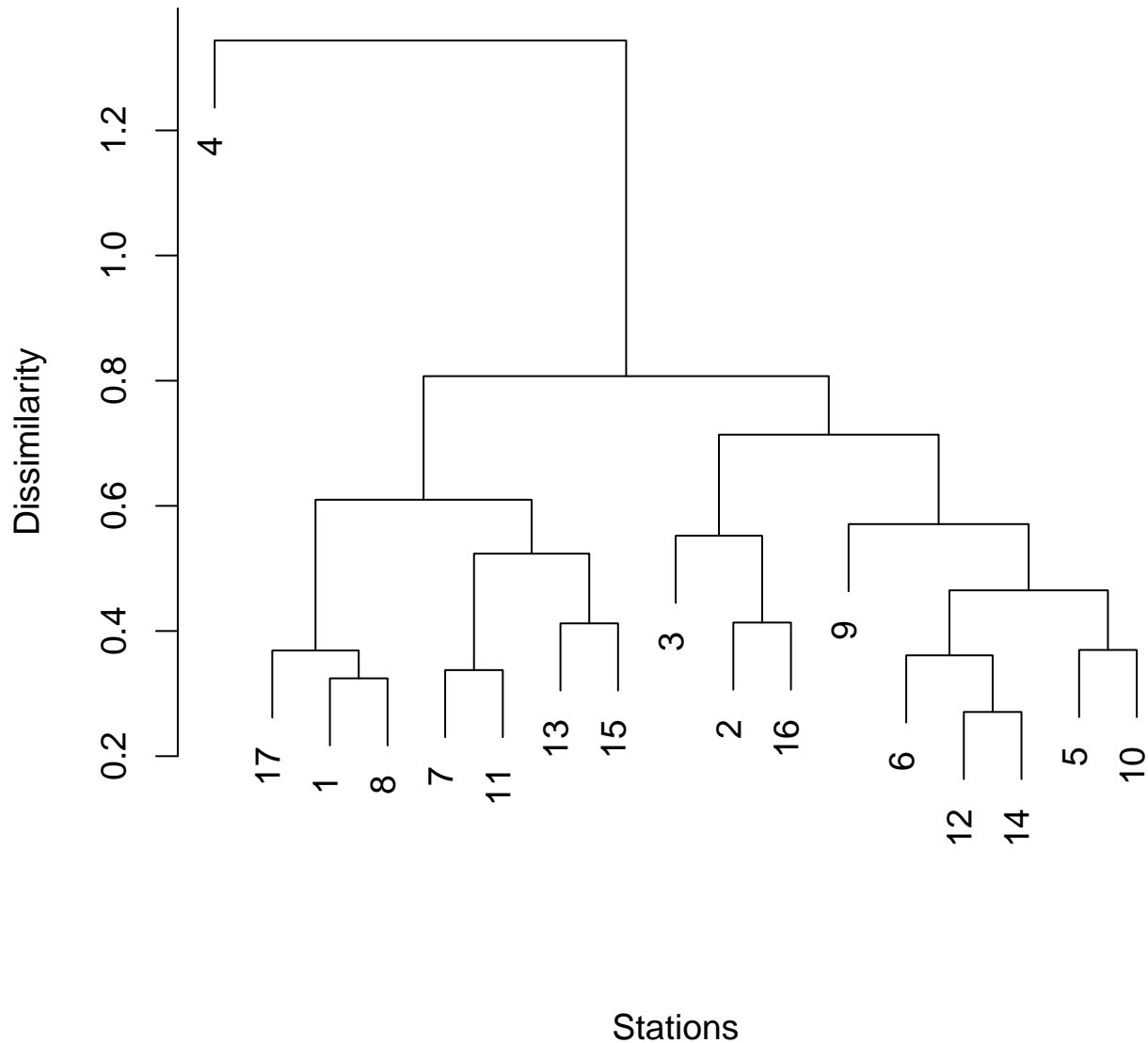




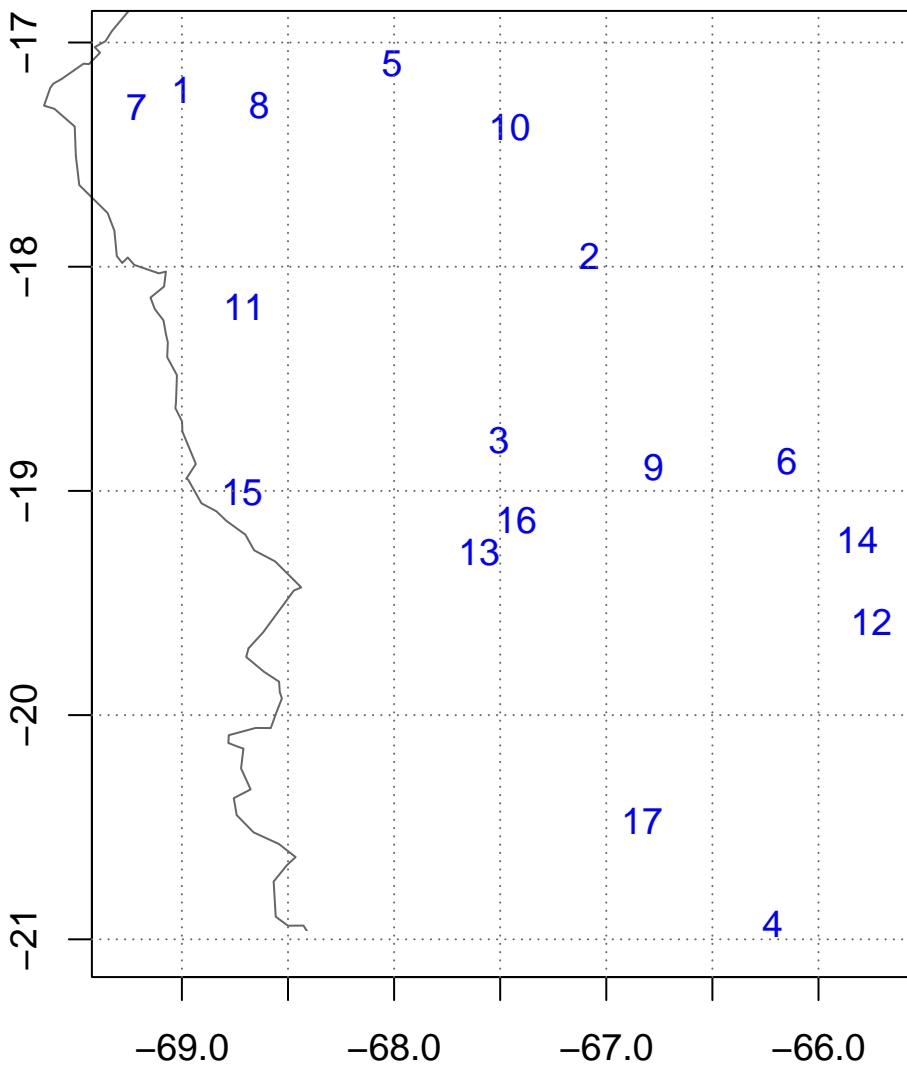
**Correlogram of first difference series**



**Dendrogram of station clusters**



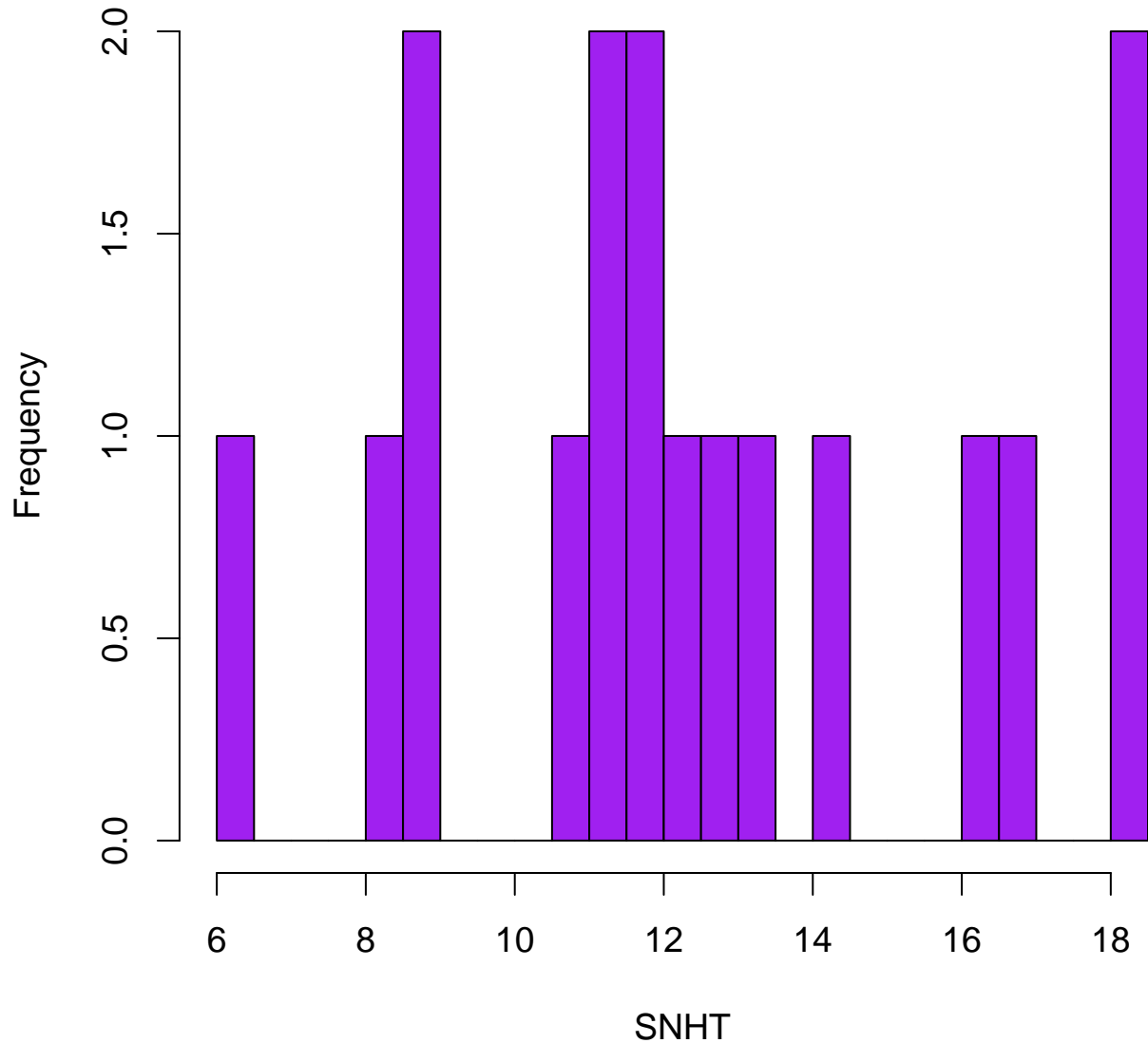
# pre-m station locations



# Stage 1

Binary splits on 60 term  
stepped windows  
with  $\text{SNHT} > 20$   
and  $\text{wd} = 0 \text{ km}$

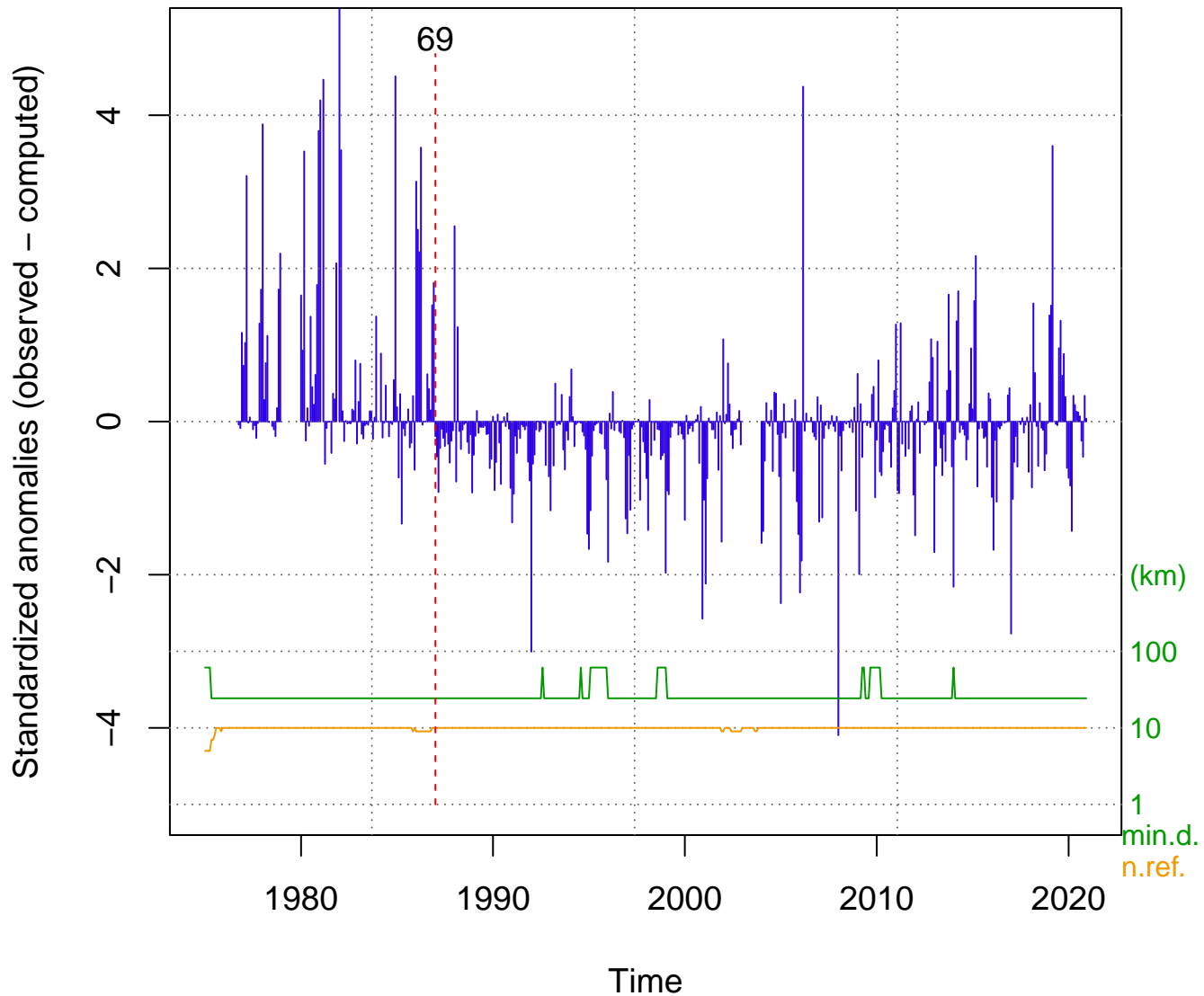
**Histogram of maximum SNHT (Stage 1)**



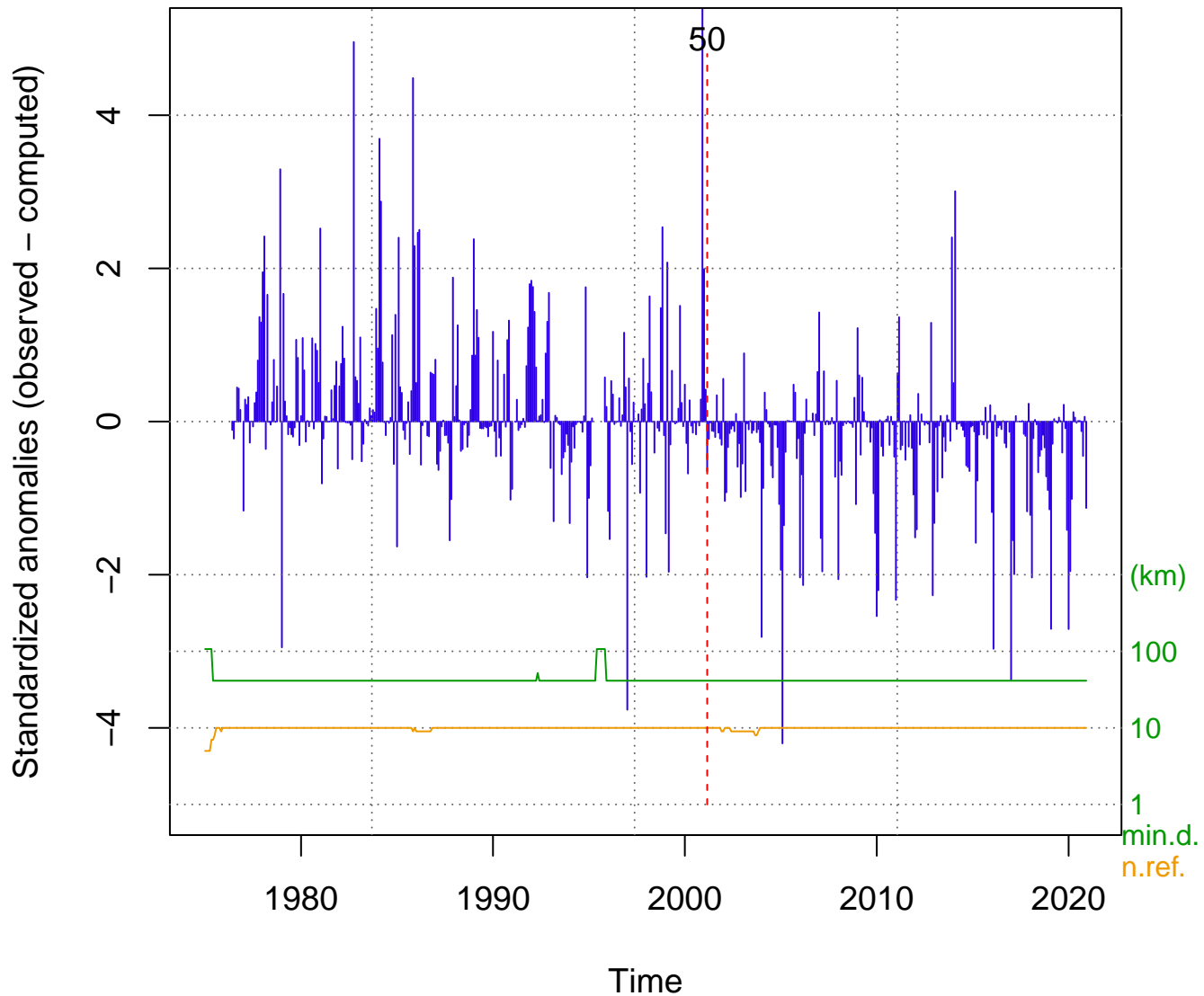
# Stage 2

Binary splits on  
whole series  
with  $SNHT > 50$   
and  $wd = 0$  km

pre-m 7 (4103)  
berenguela

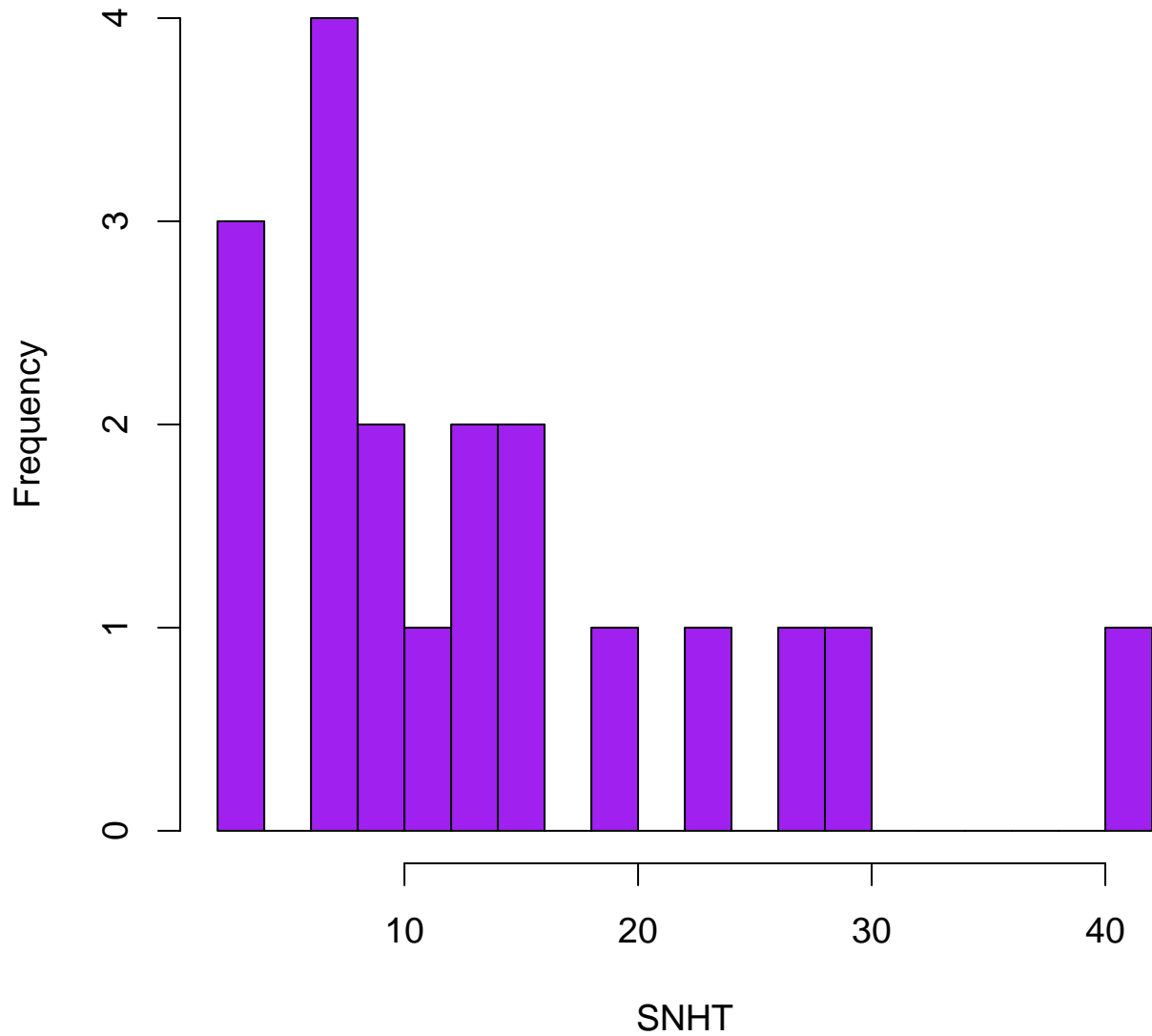


pre-m 14 (4309)  
tinguipaya

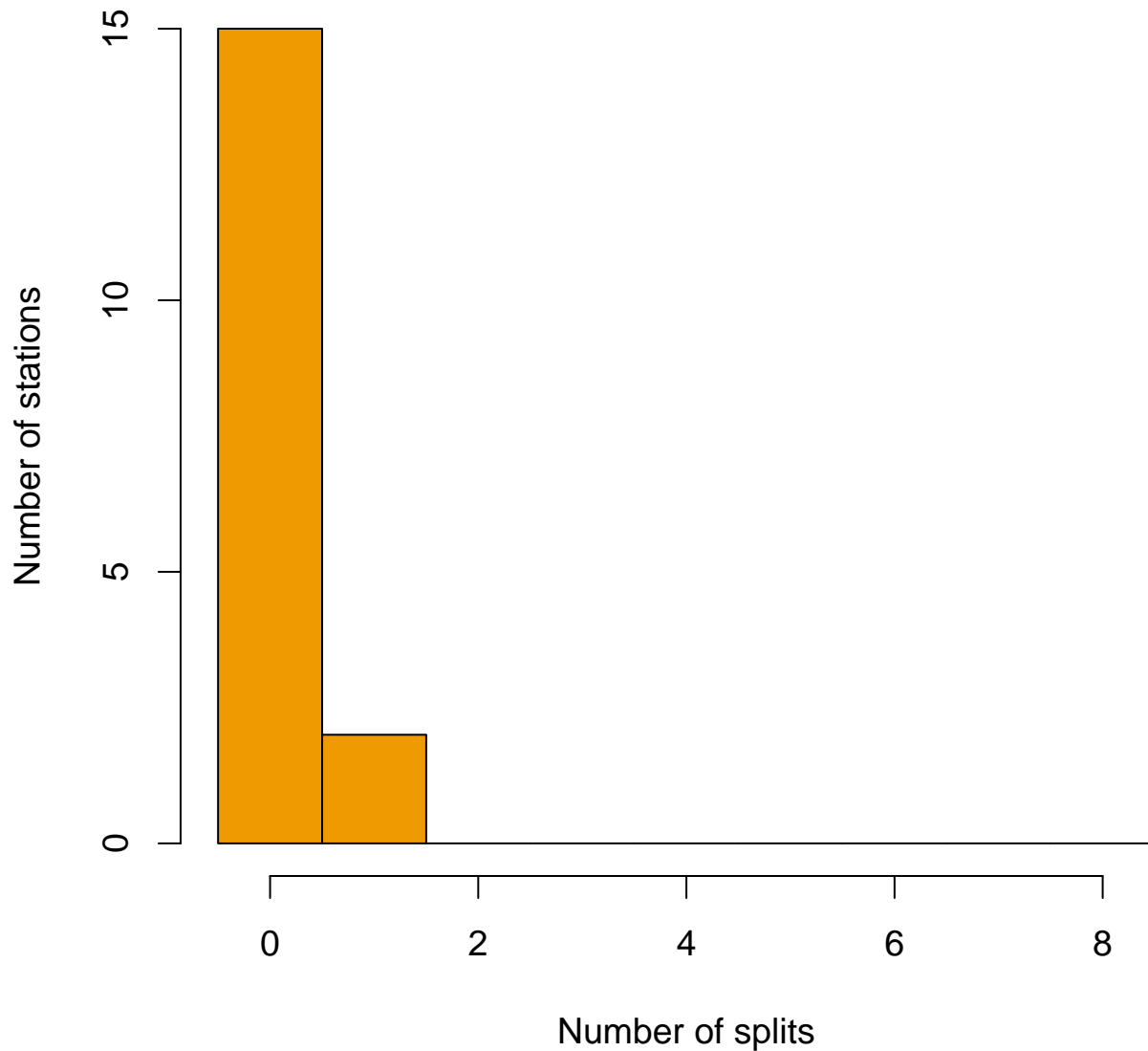




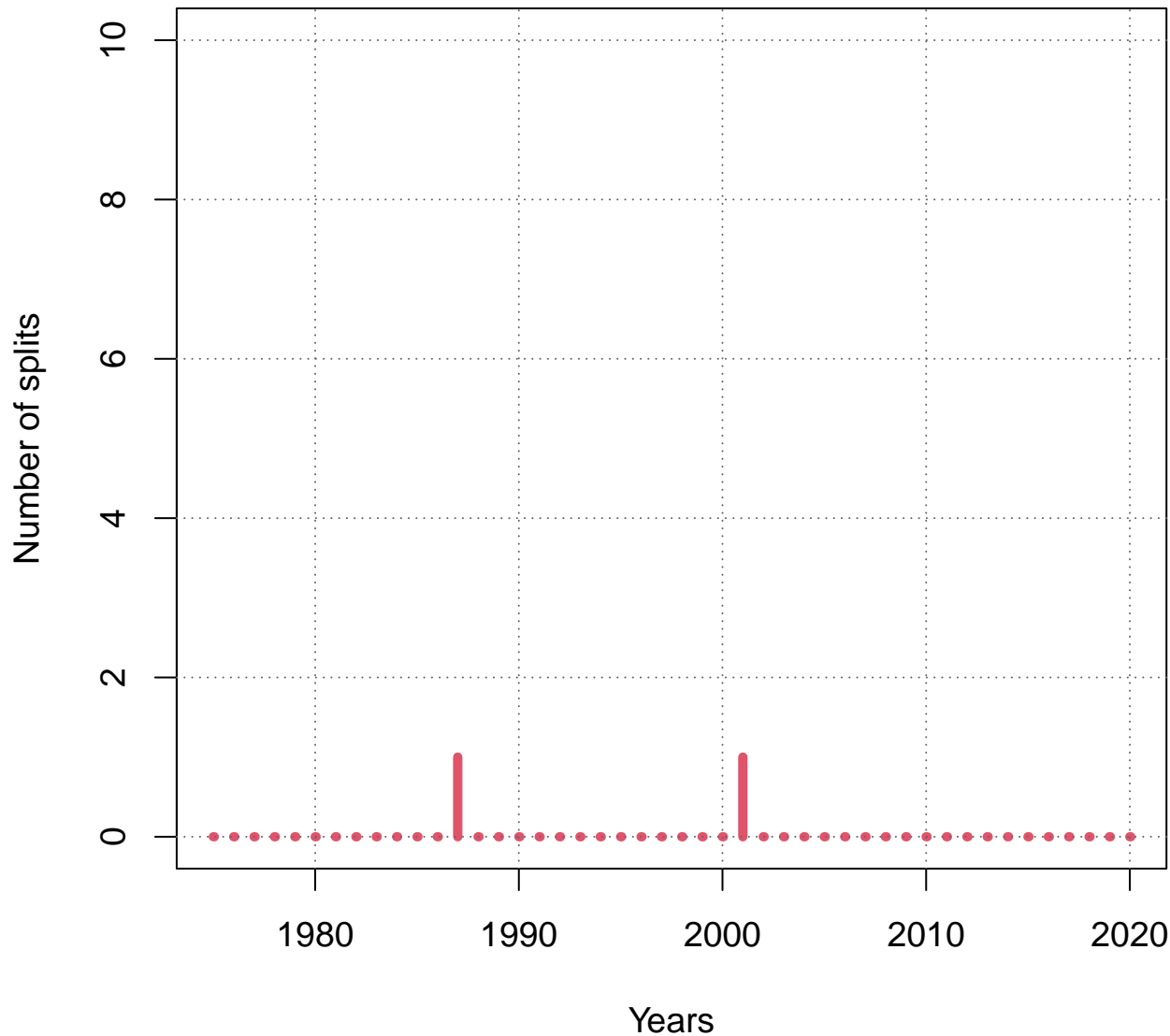
**Histogram of maximum SNHT (Stage 2)**



## Number of splits per station



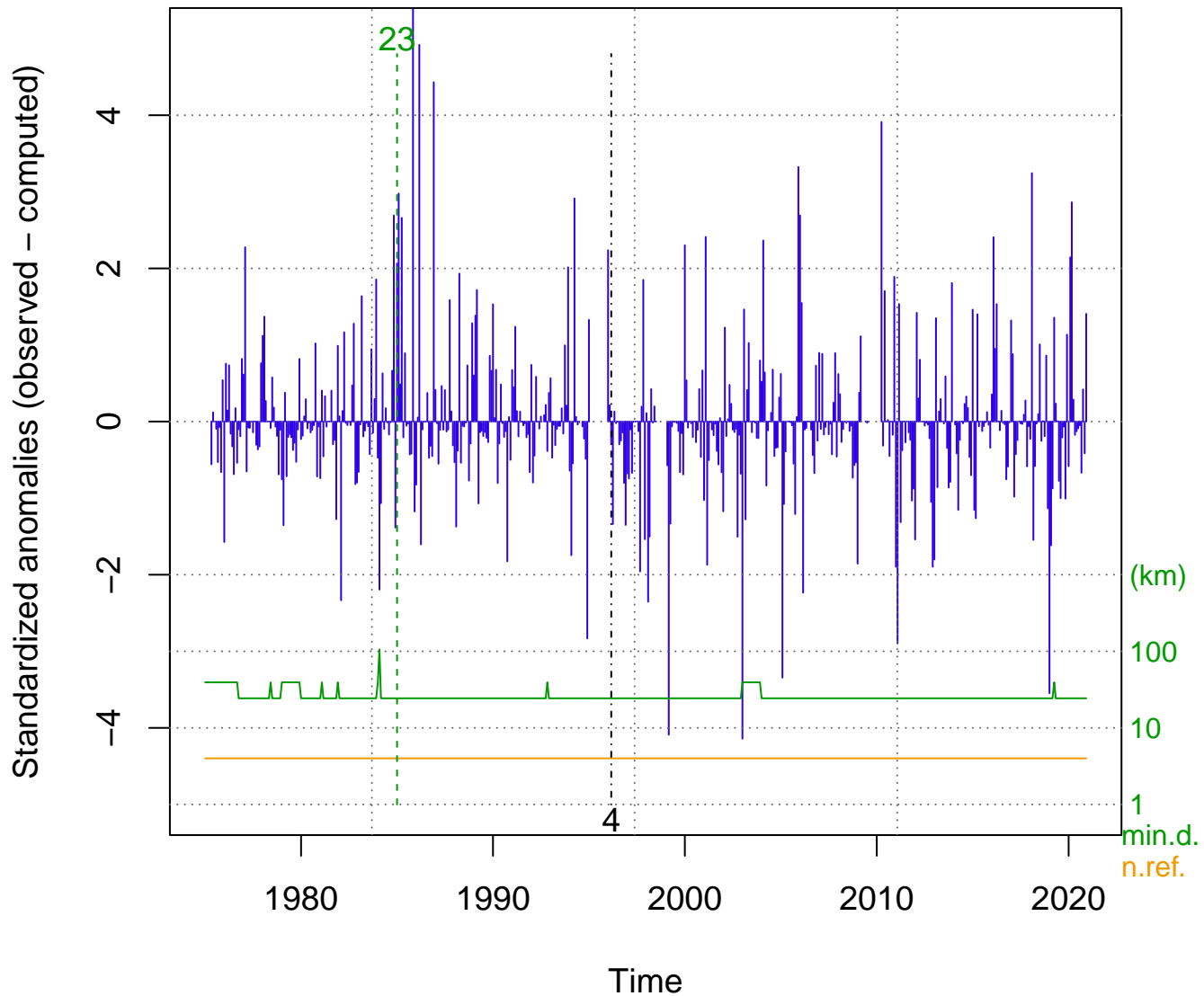
# Number of splits per year



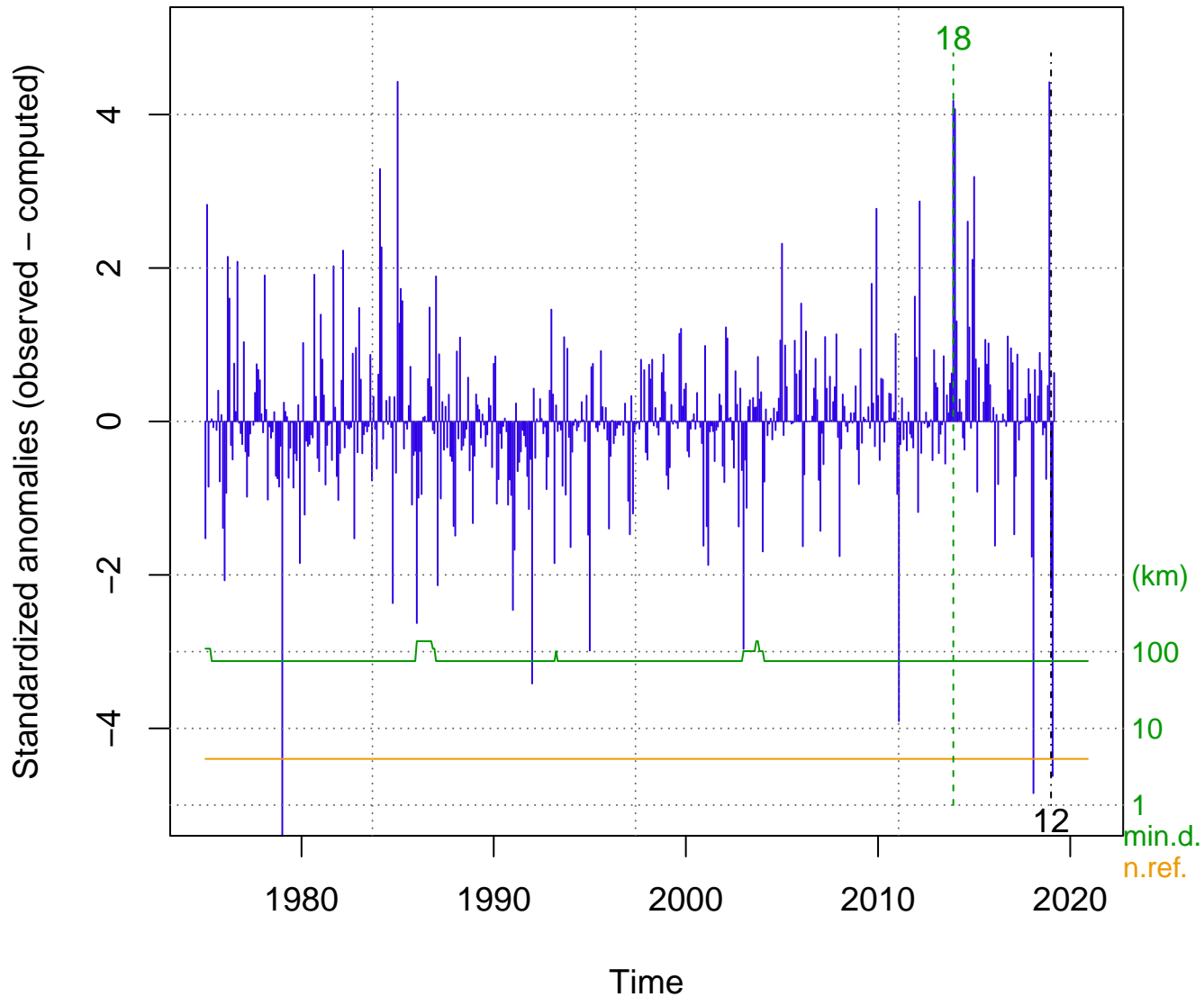
# Stage 3

Anomalies after  
missing data  
recalculation  
with  $wd = 100$  km  
(  $swa = 60$  )

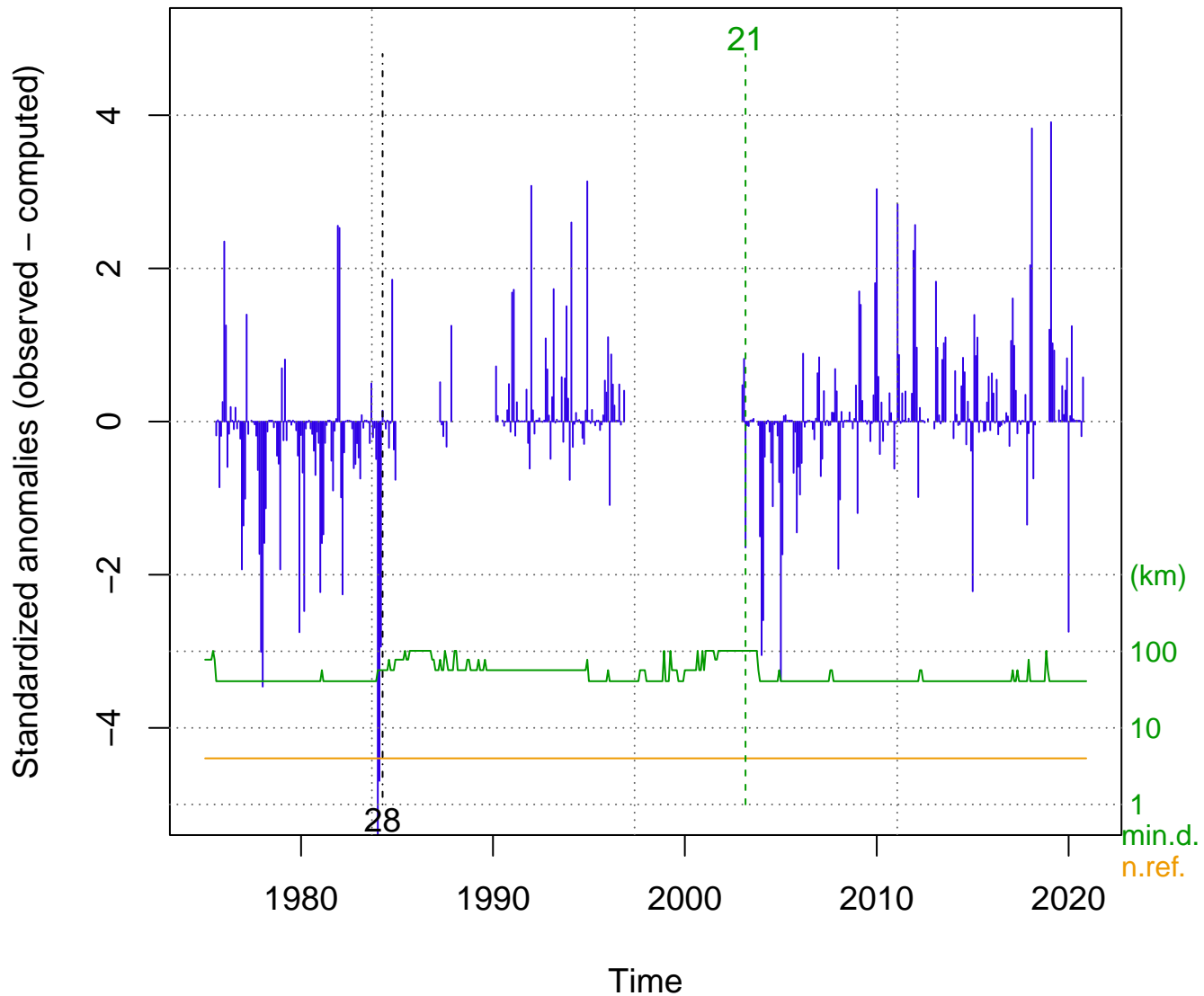
# pre-m 1 (4101) achiri



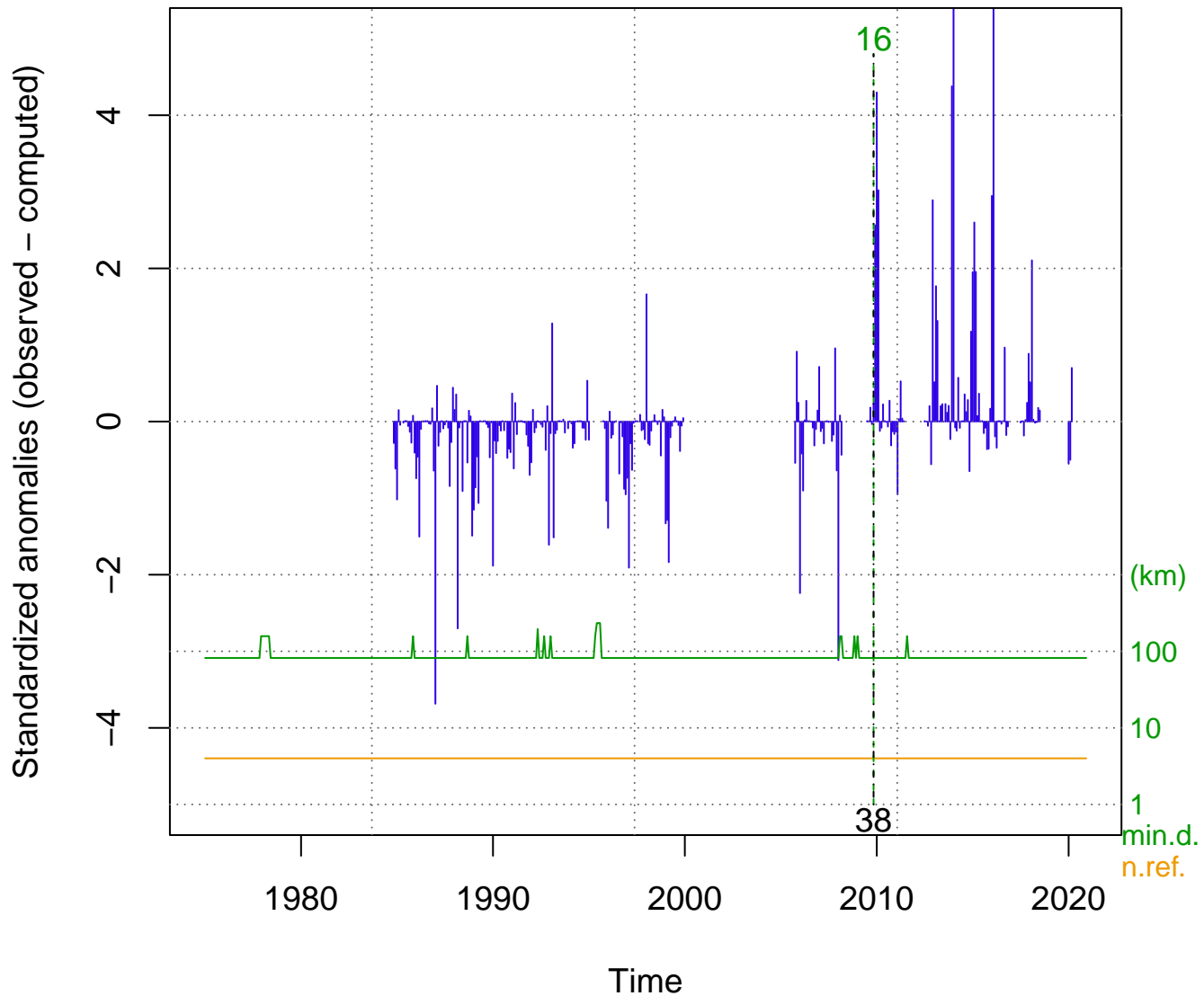
# pre-m 2 (4012) aeropuerto



pre-m 3 (4001)  
andamarca

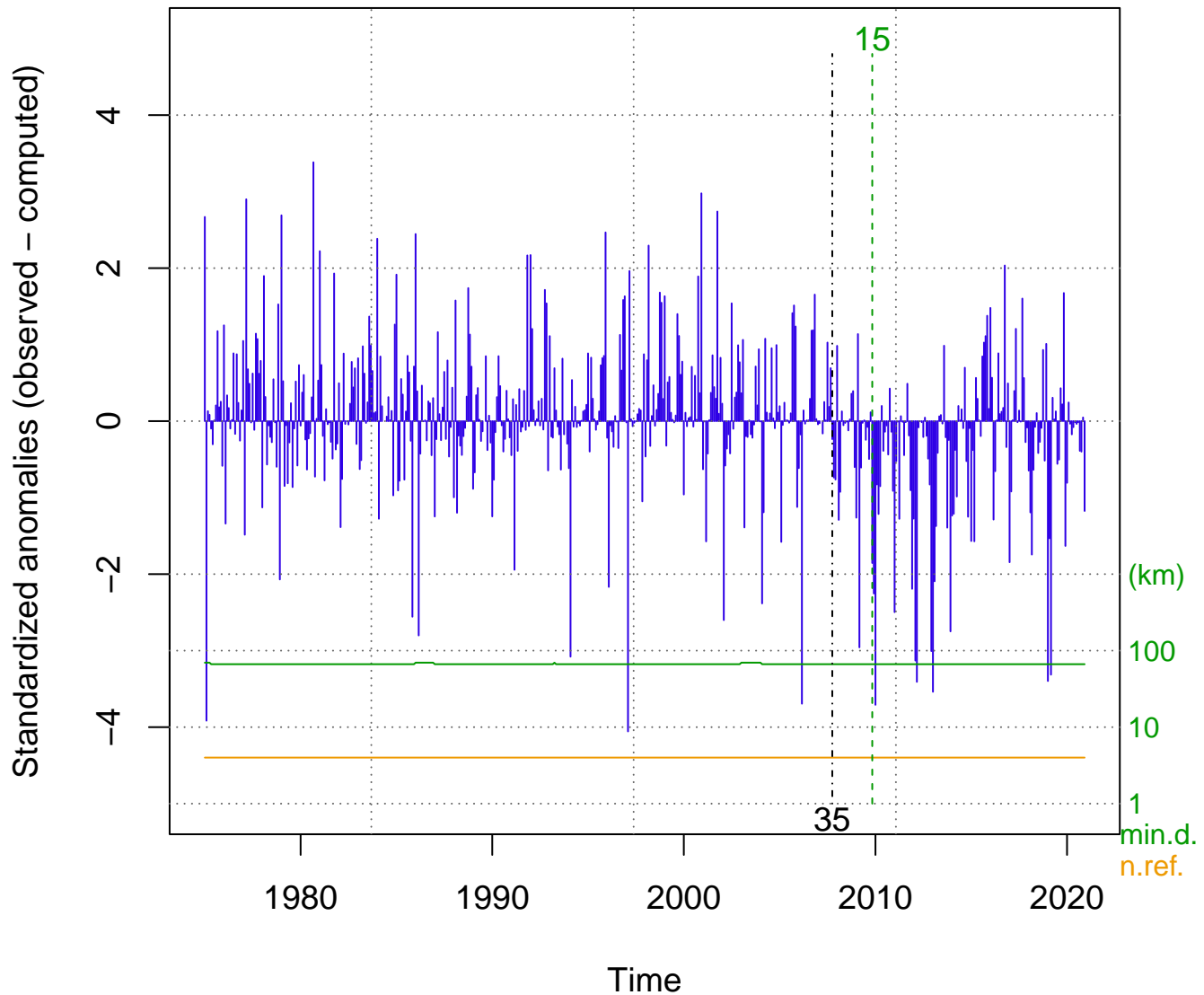


pre-m 4 (4302)  
atocha

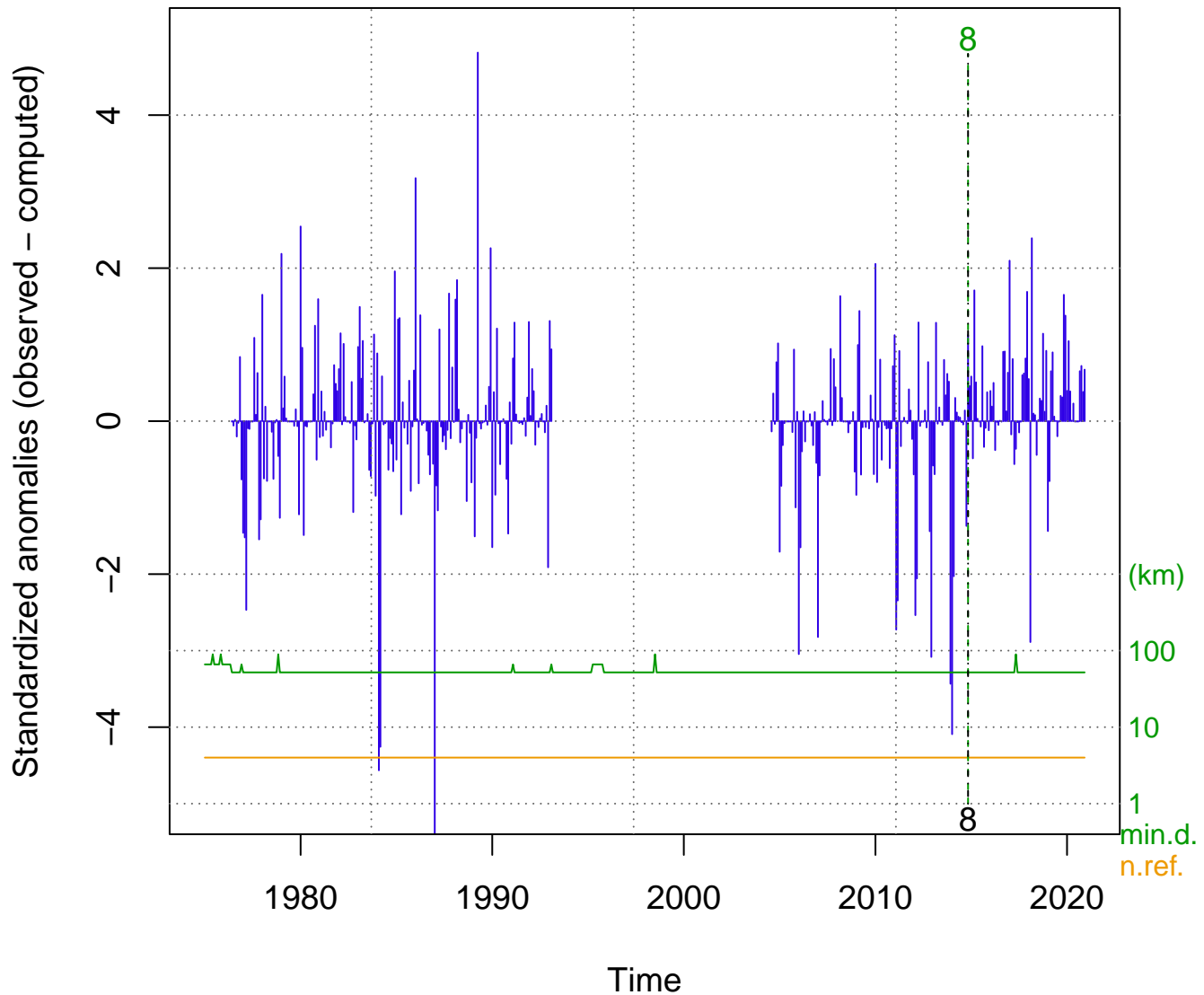




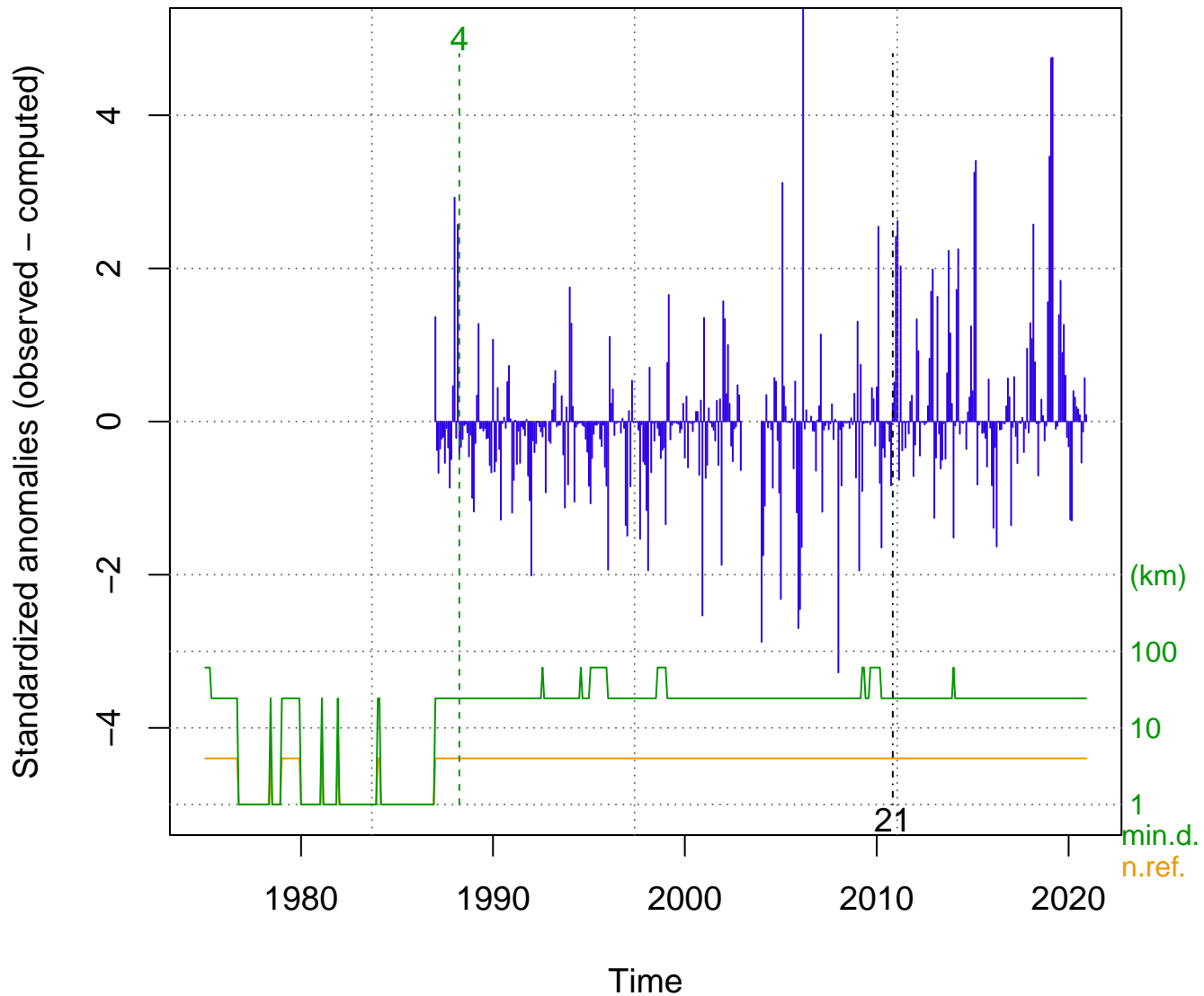
pre-m 5 (4102)  
ayoayo



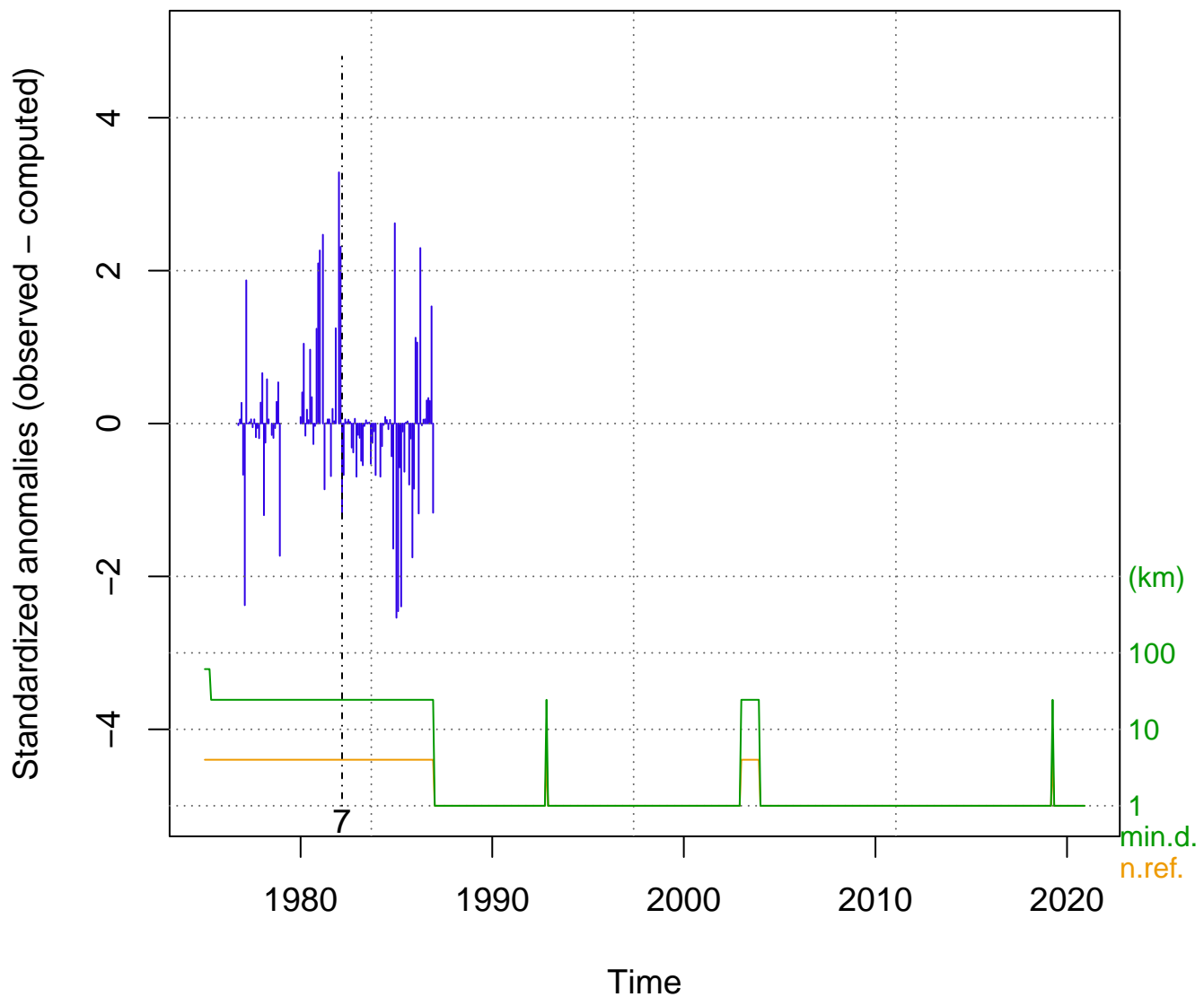
pre-m 6 (4303)  
ayoma



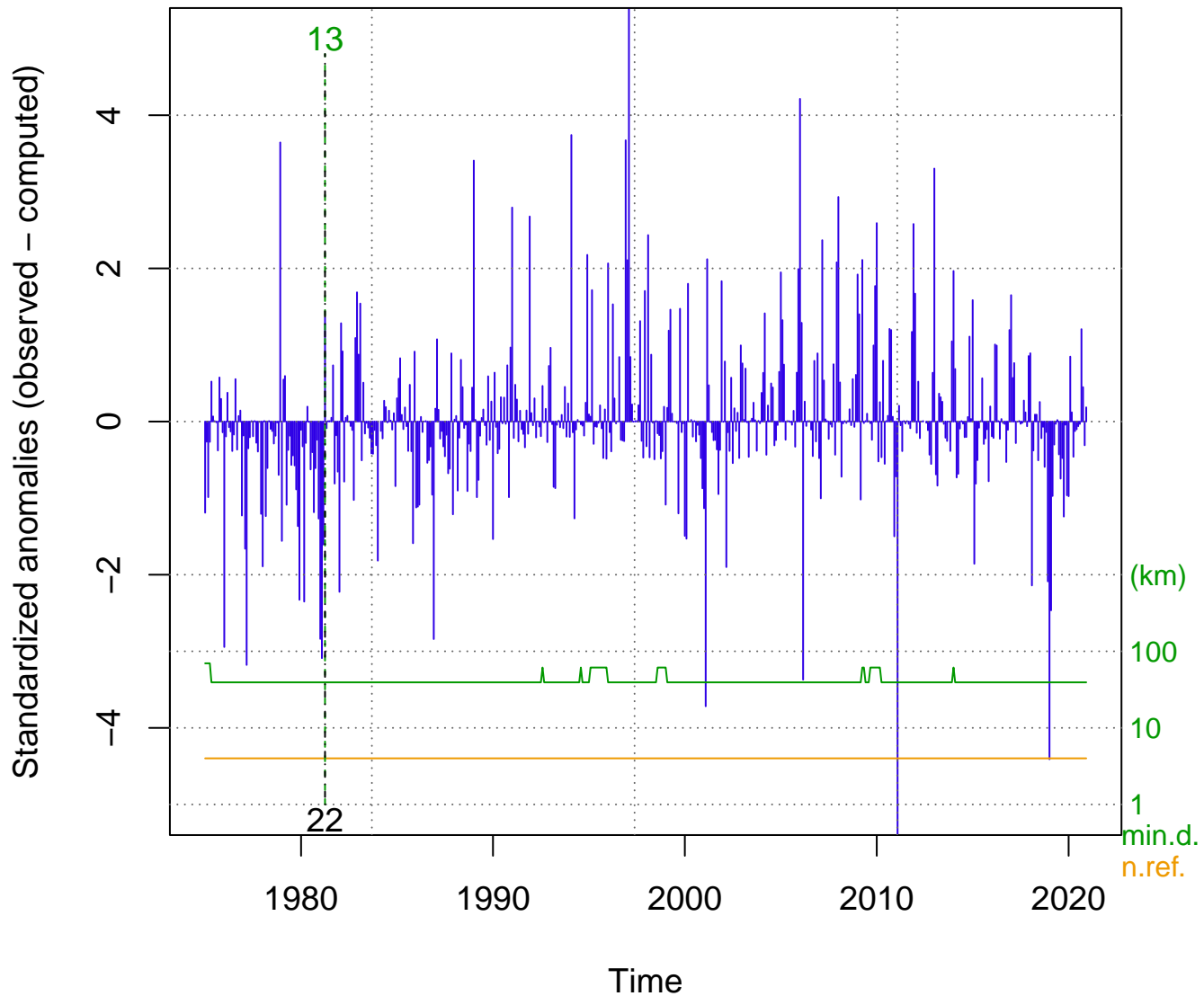
pre-m 7 (4103)  
berenguela



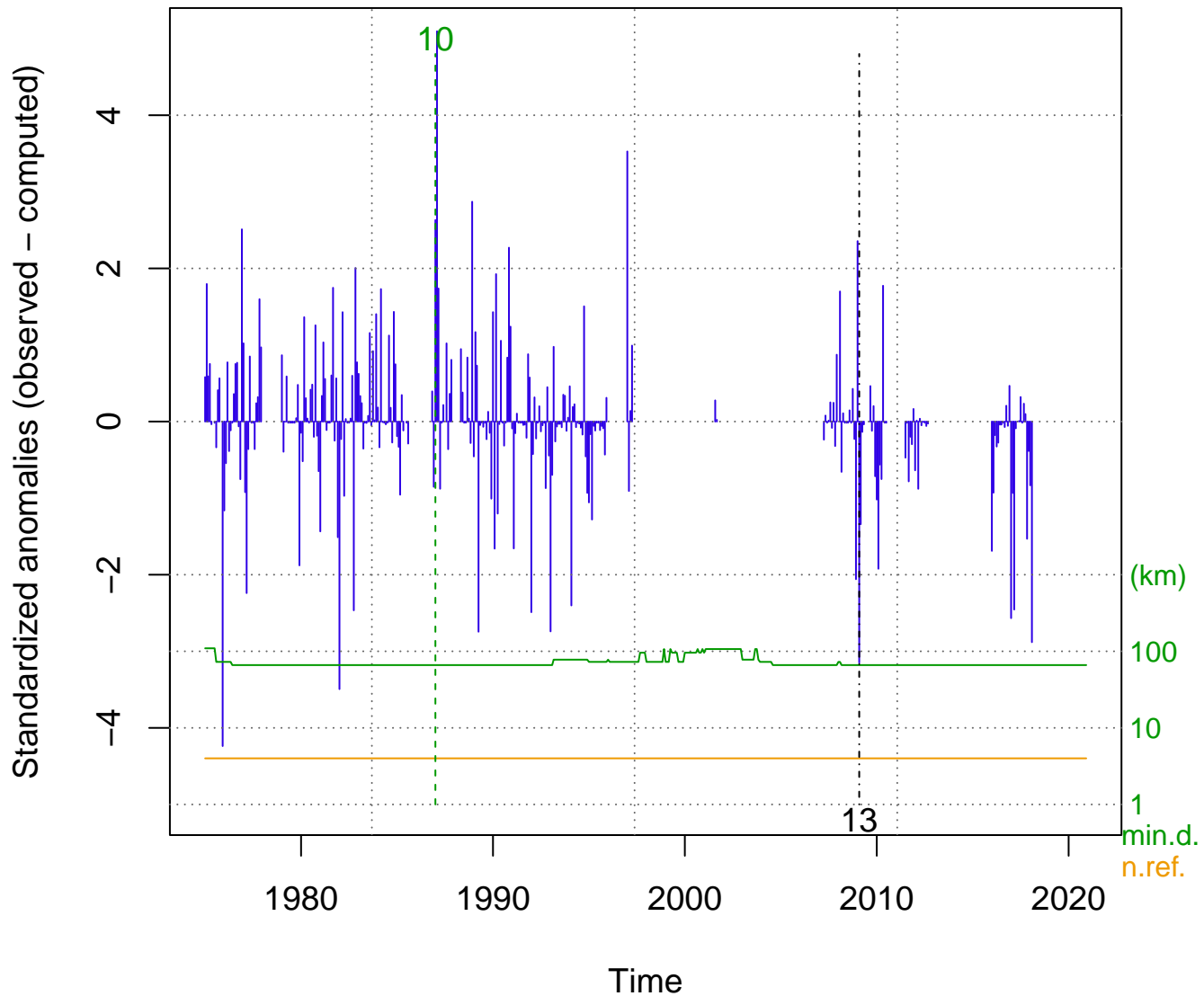
pre-m 18 (4103-2)  
berenguela-2



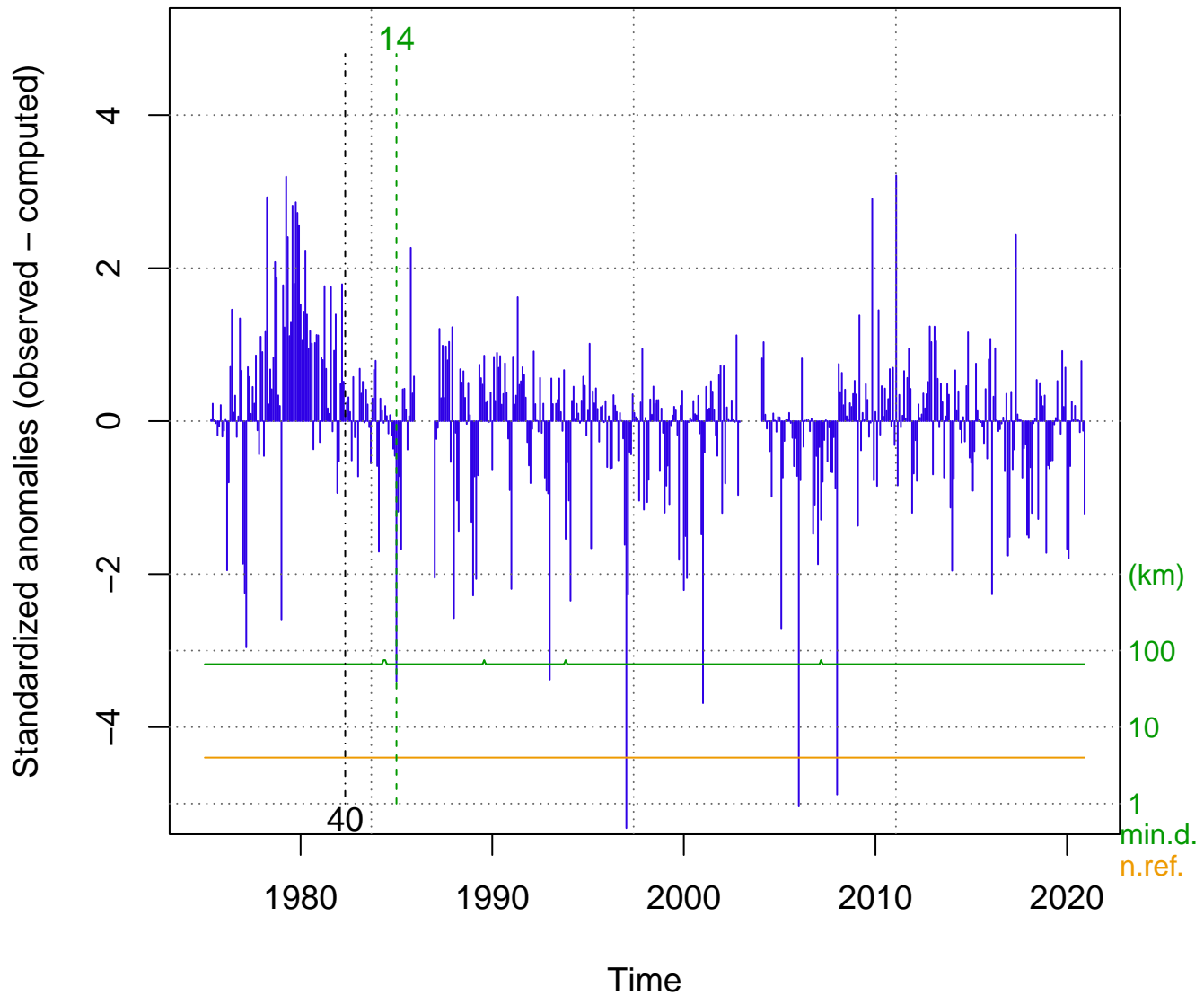
pre-m 8 (4104)  
calacoto



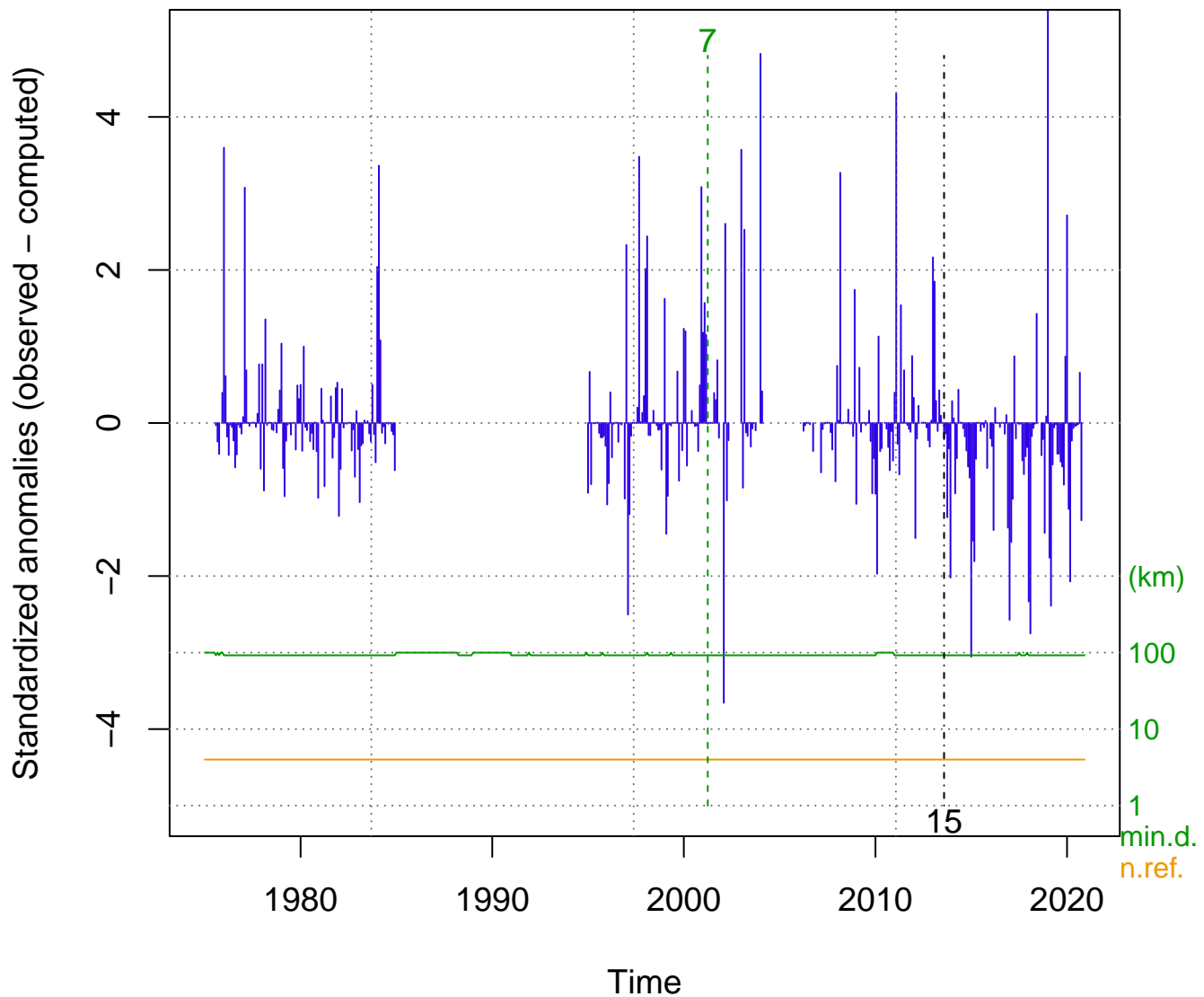
pre-m 9 (4090)  
challapata



pre-m 10 (4106)  
conchamarca

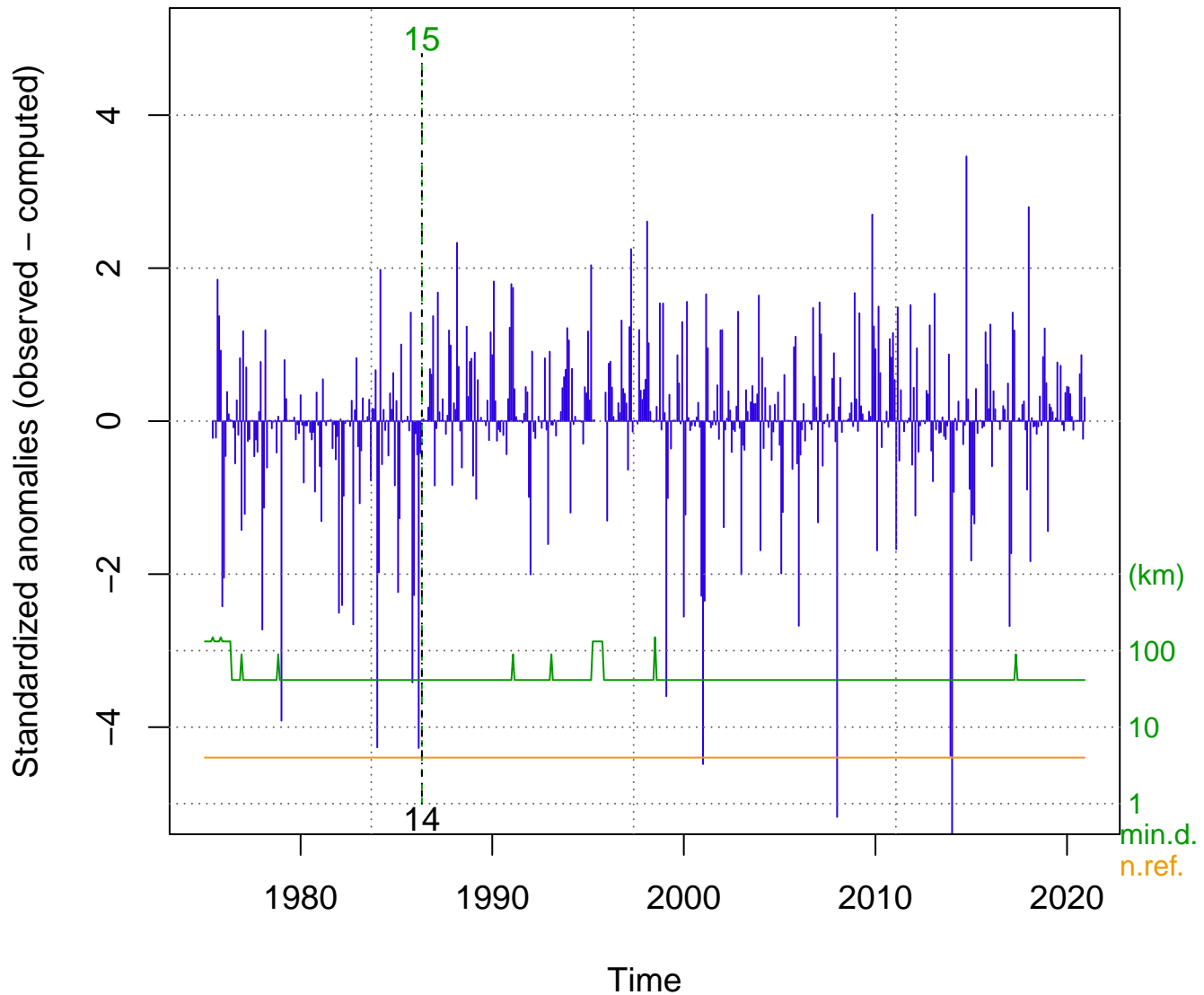


pre-m 11 (4005)  
cosapa

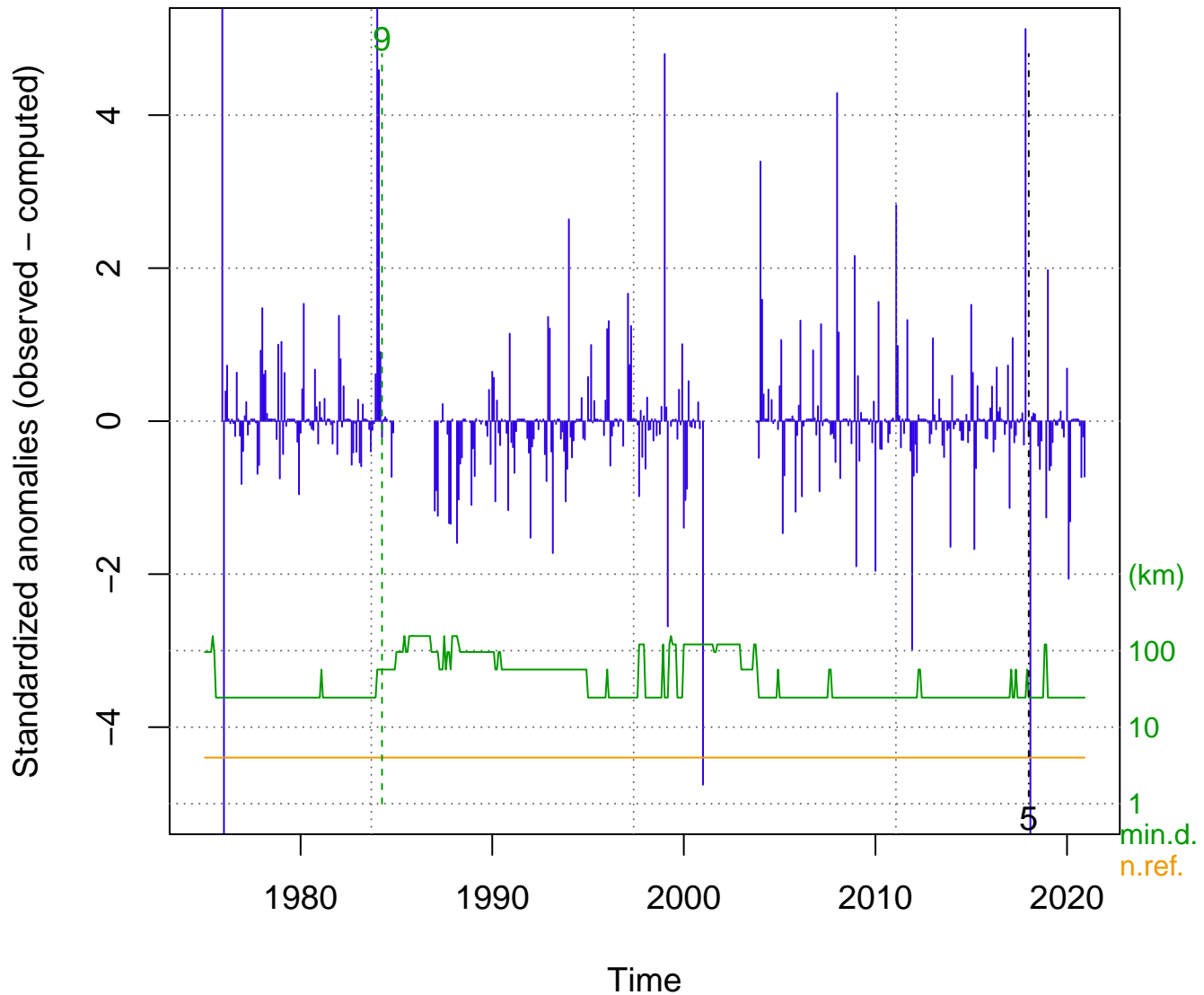




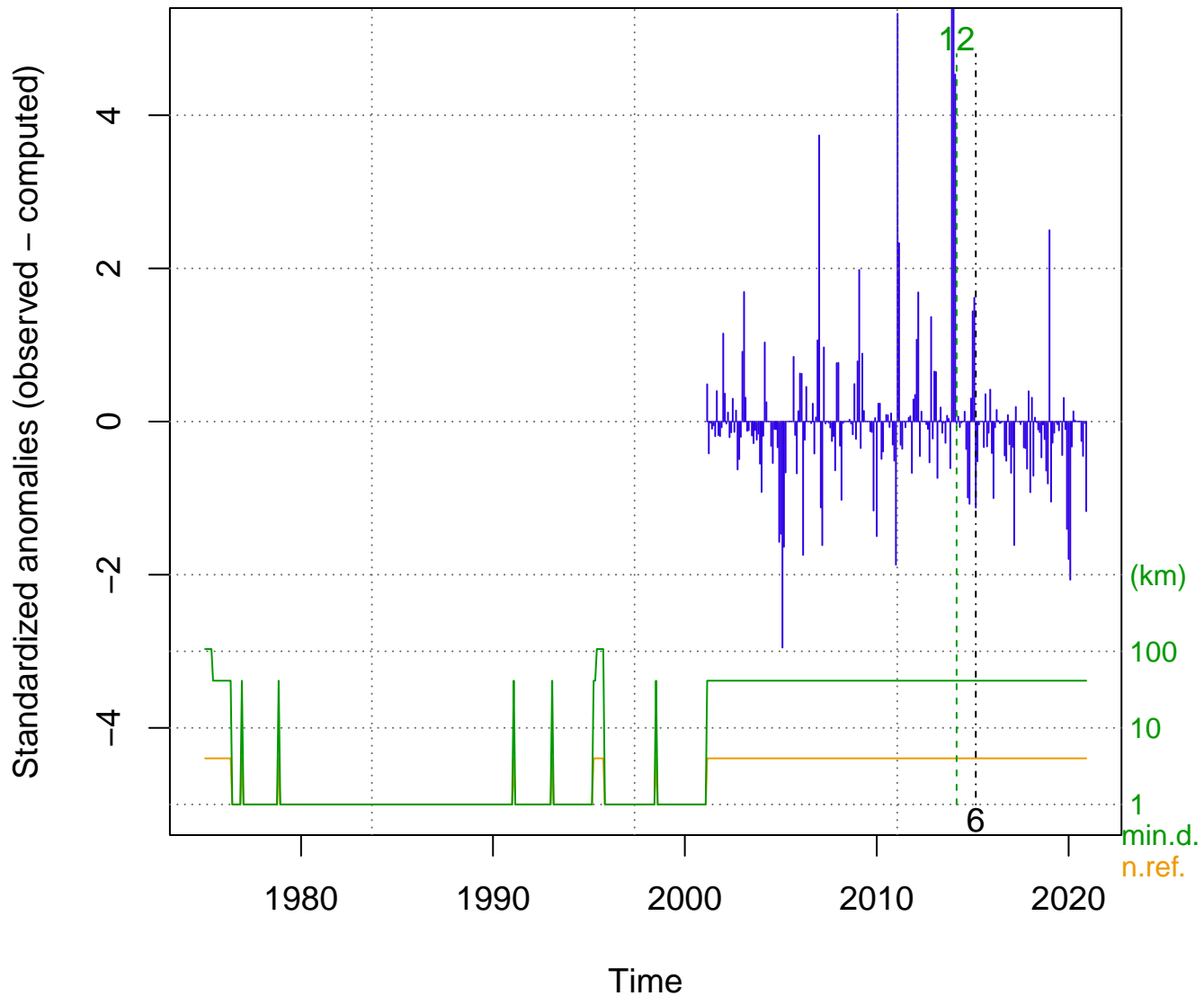
# pre-m 12 (4306) pinos



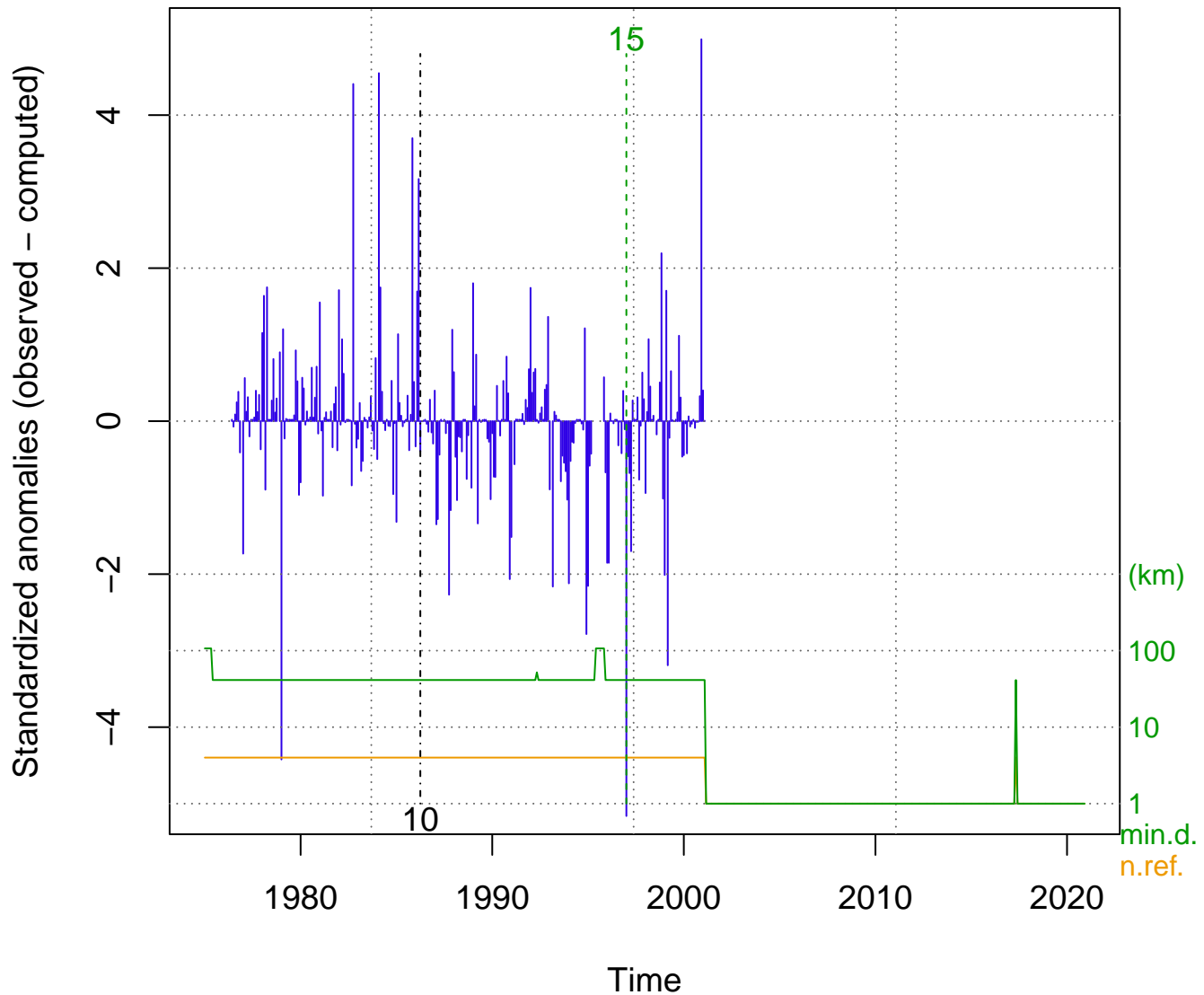
pre-m 13 (4019)  
san\_martin



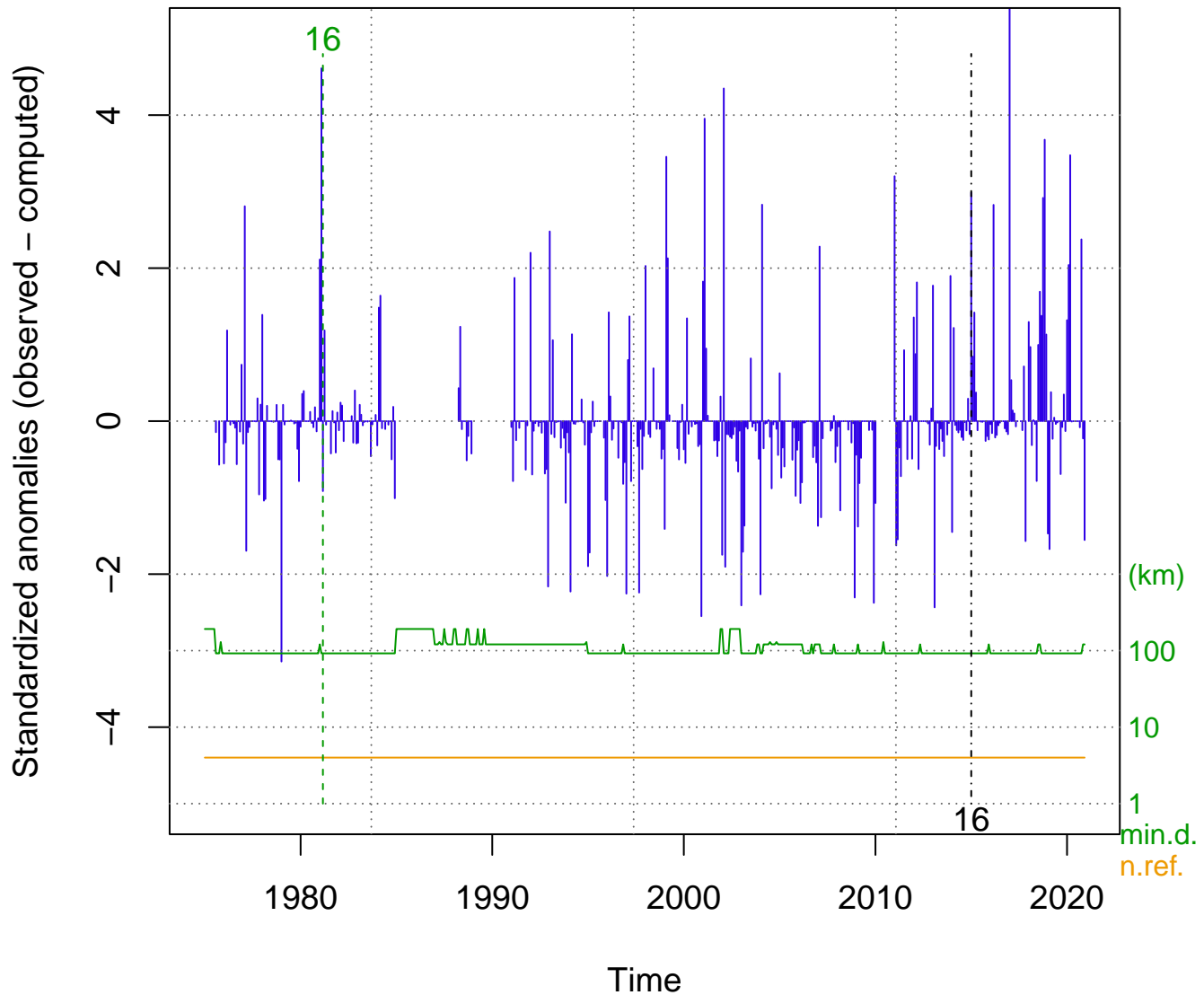
pre-m 14 (4309)  
tinguipaya



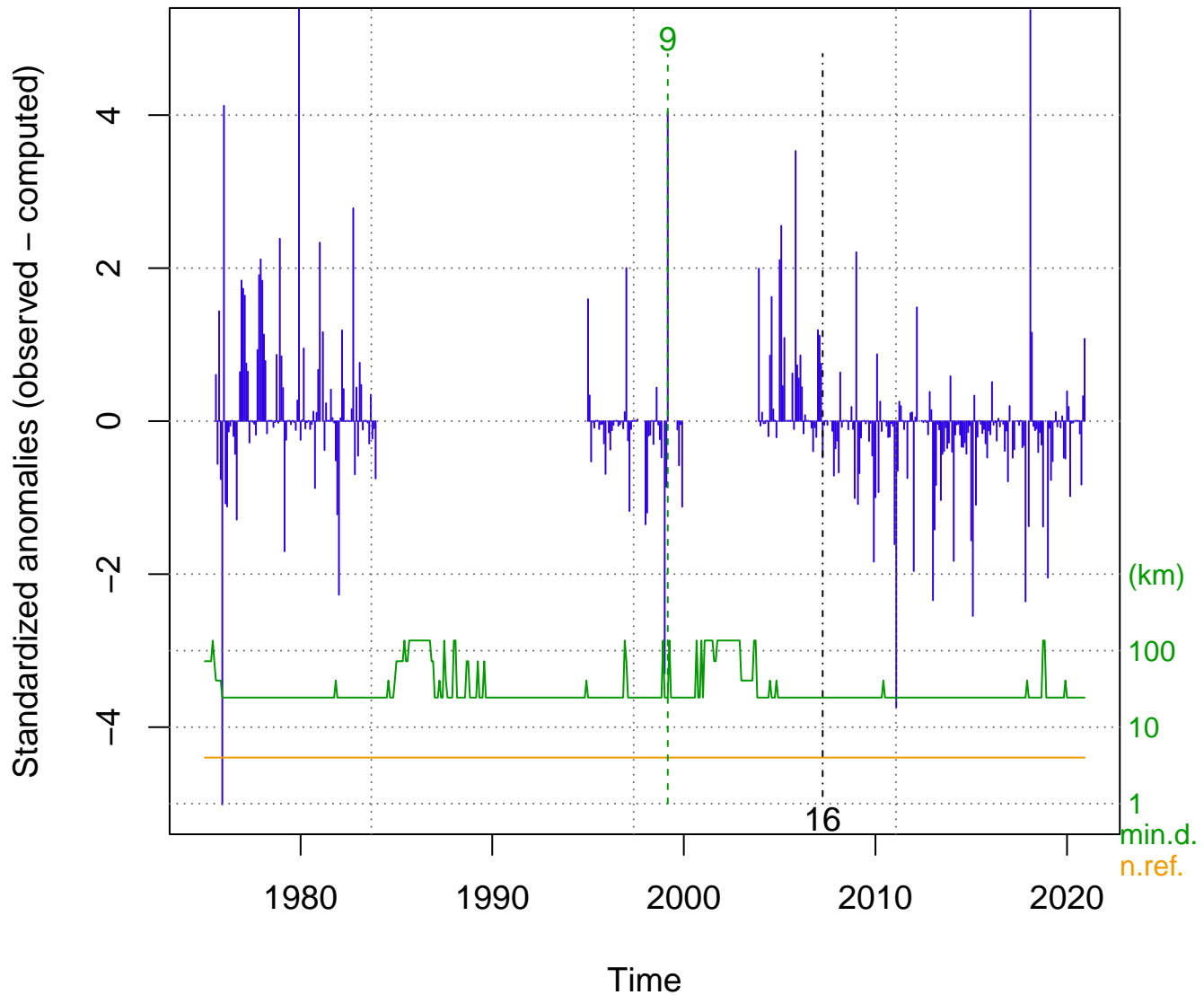
pre-m 19 (4309-2)  
tinguipaya-2



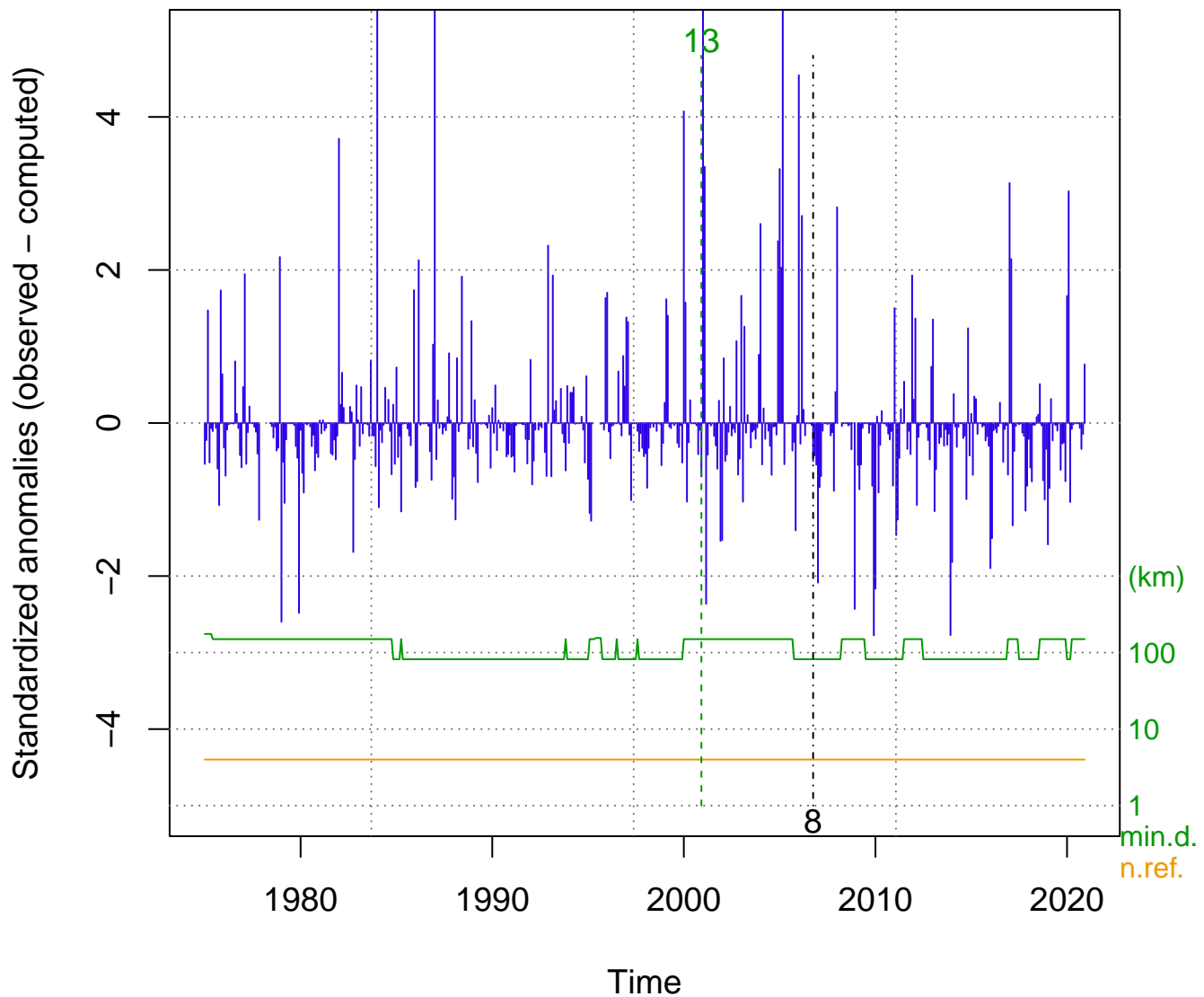
pre-m 15 (4028)  
todo\_santos



pre-m 16 (4023)  
ucumasi



pre-m 17 (4311)  
uyuni

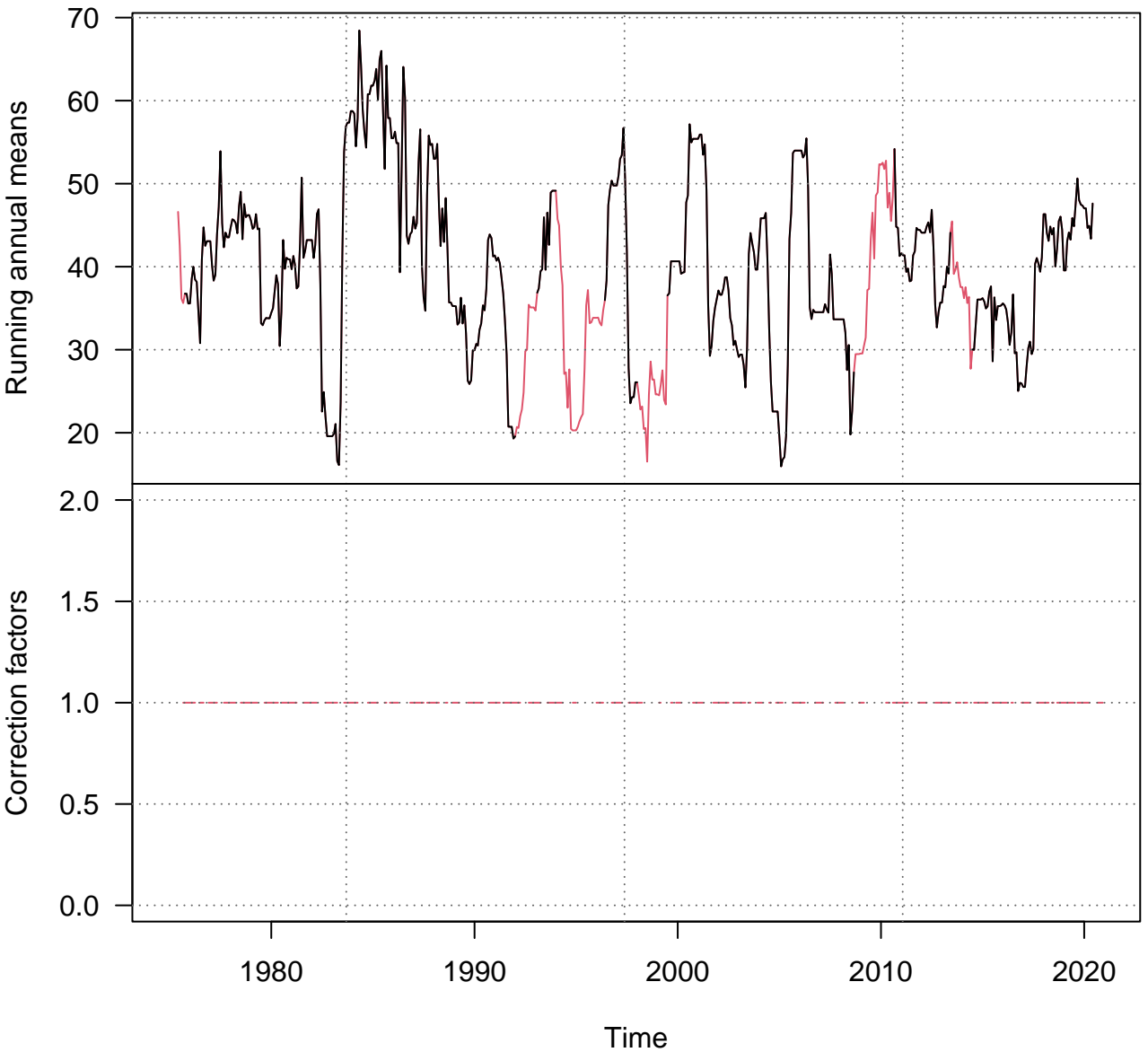


# Final graphics

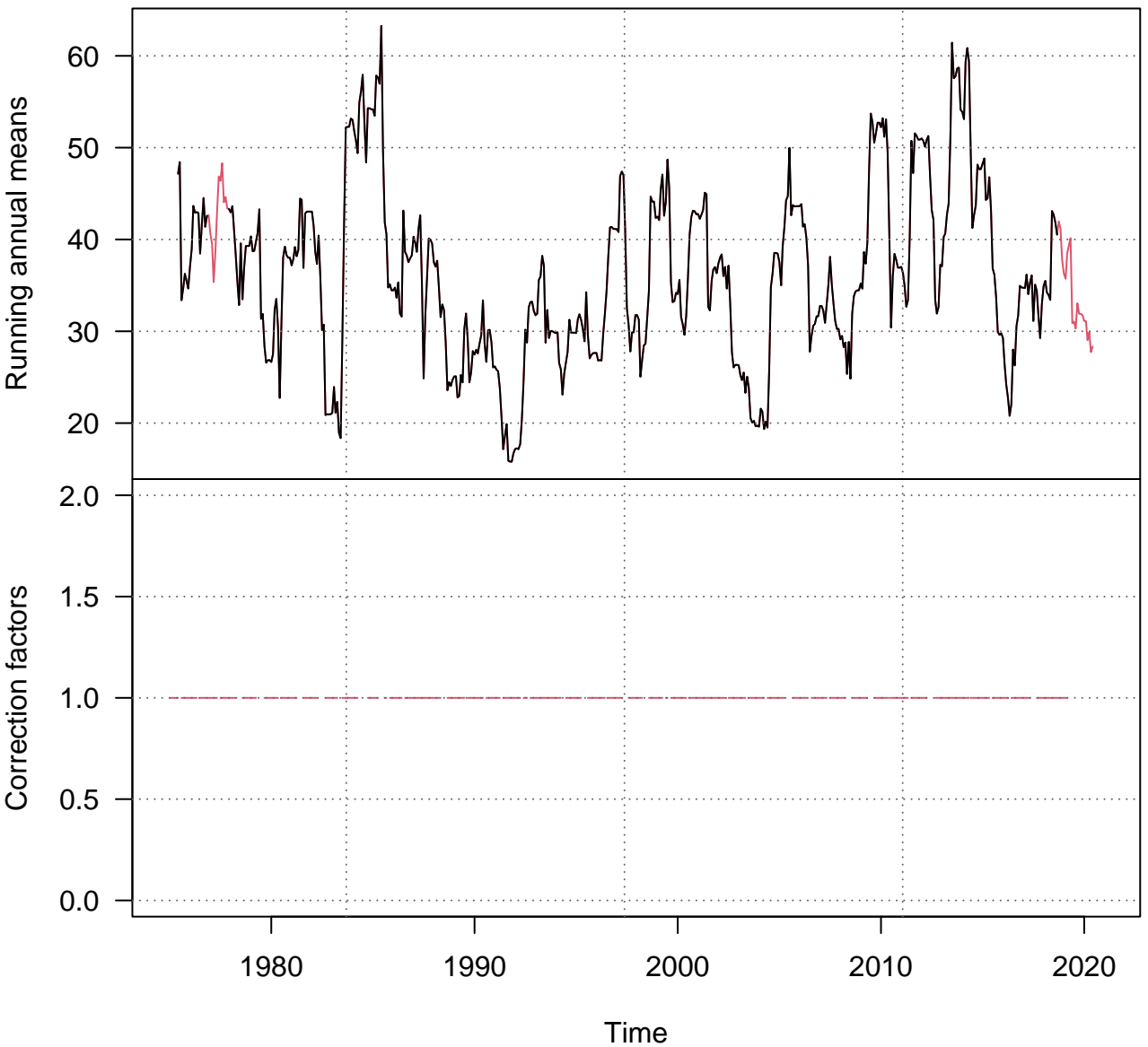
Adjusted series and  
applied corrections



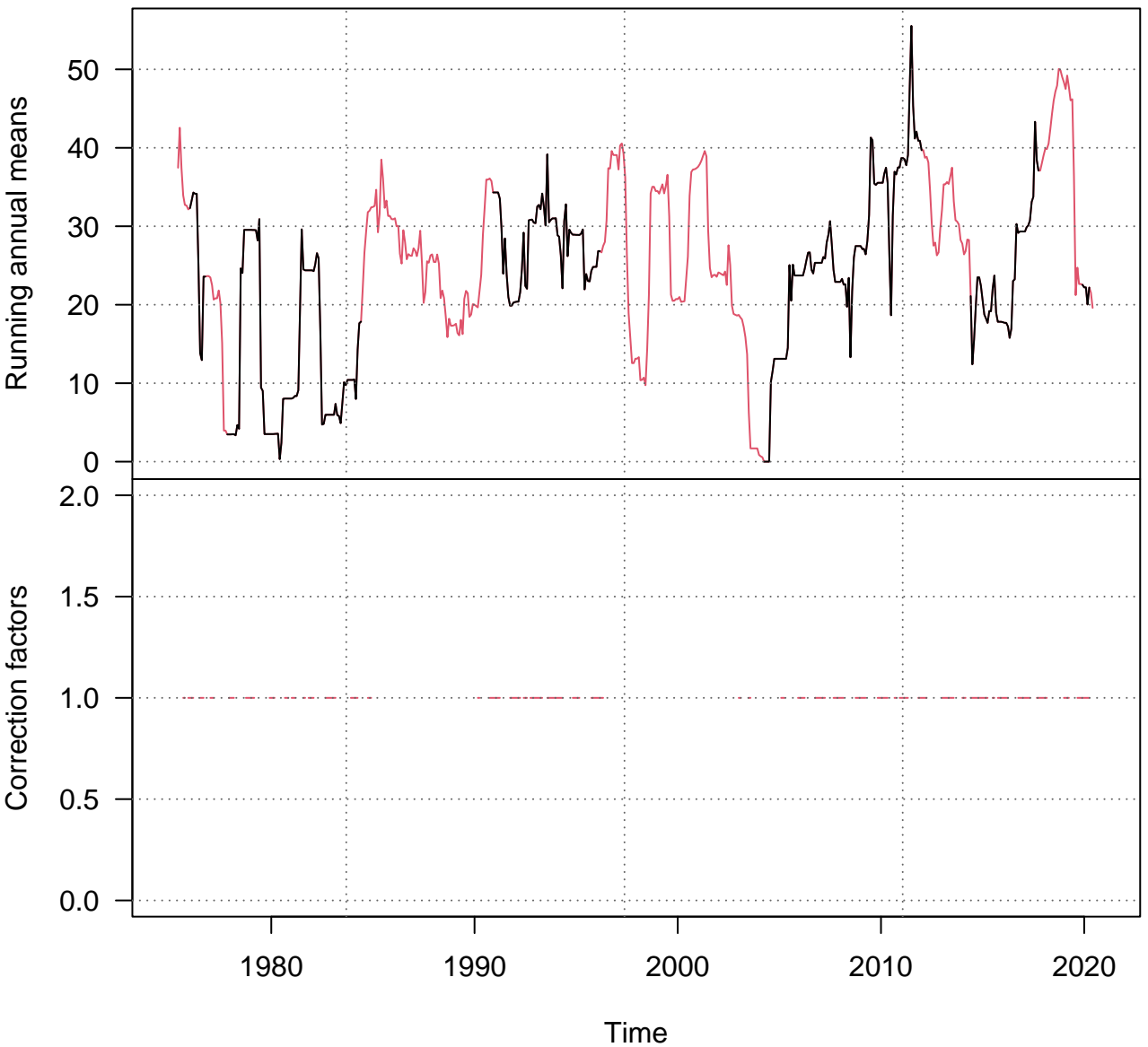
**pre-m 1 (4101)**  
**achiri**



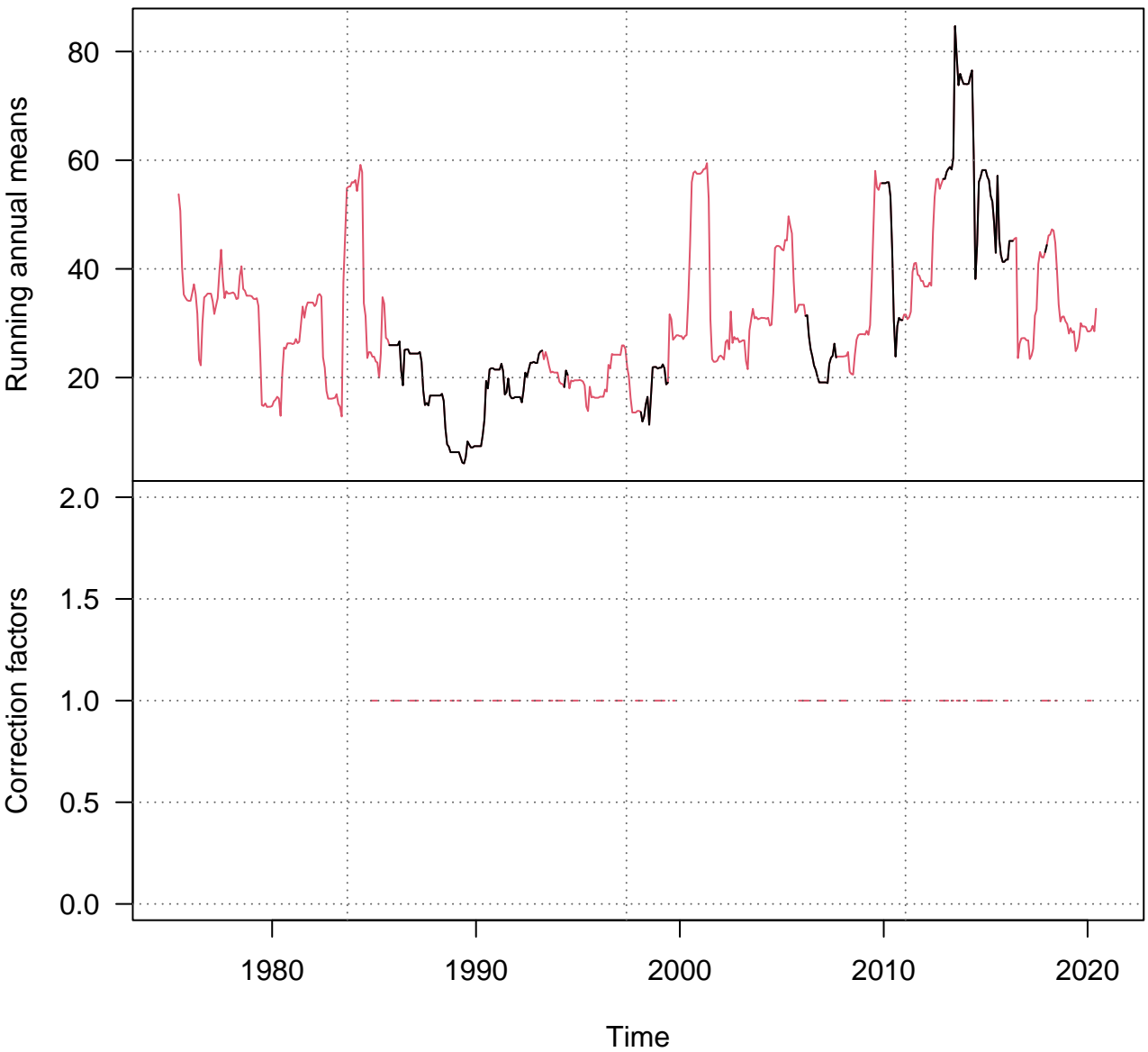
**pre-m 2 (4012)**  
**aeropuerto**



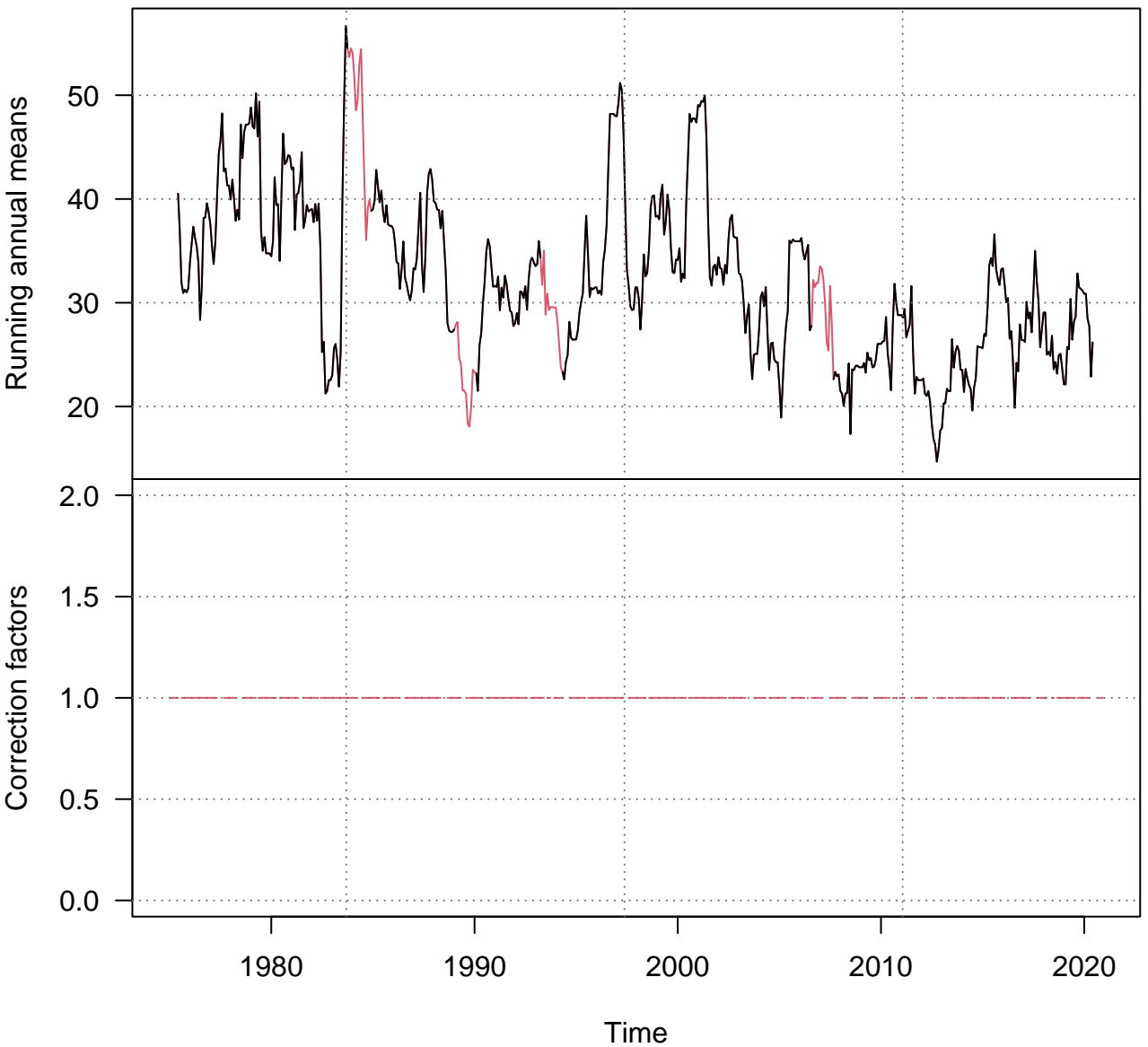
**pre-m 3 (4001)**  
**andamarca**



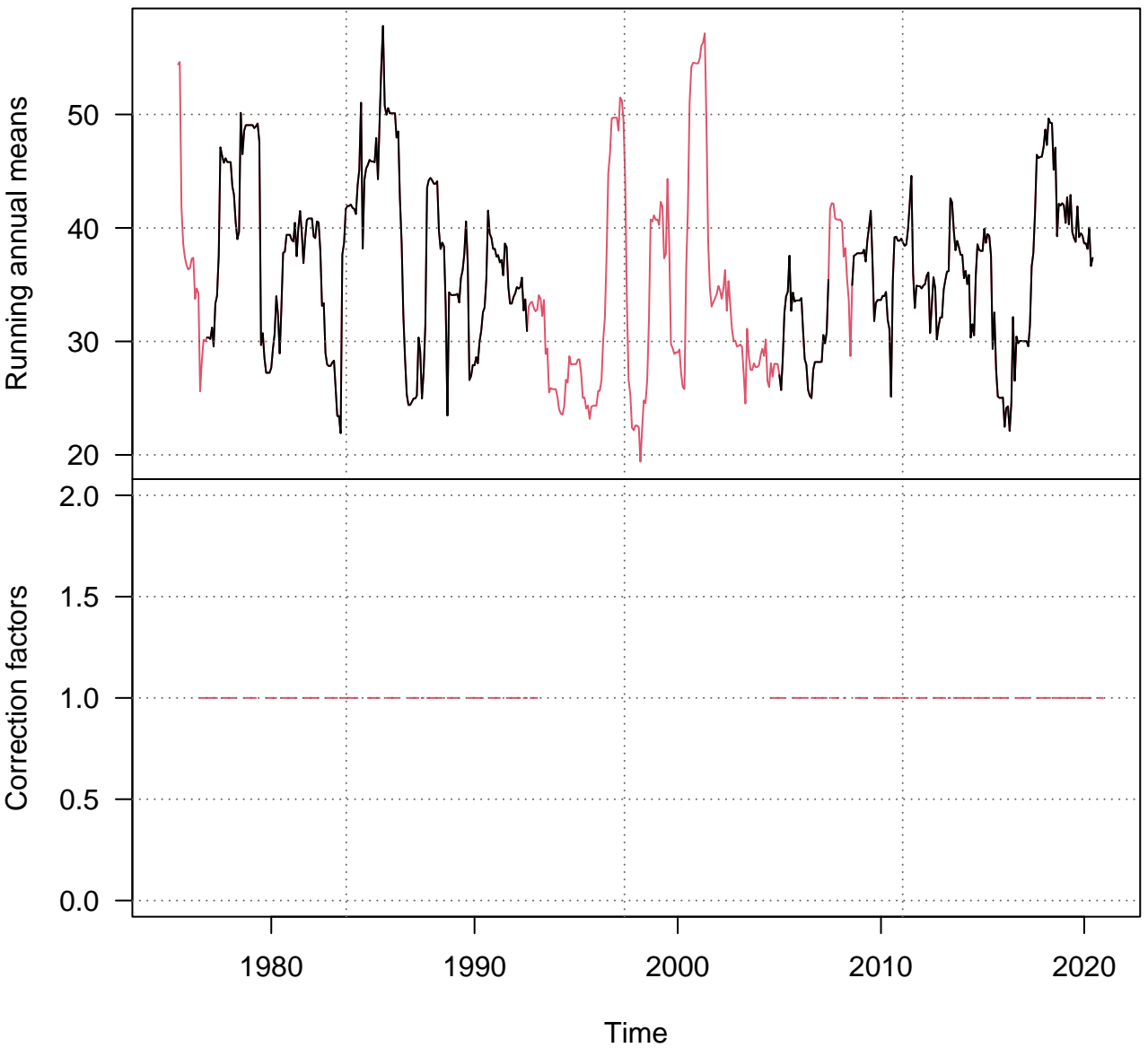
**pre-m 4 (4302)**  
**atocha**



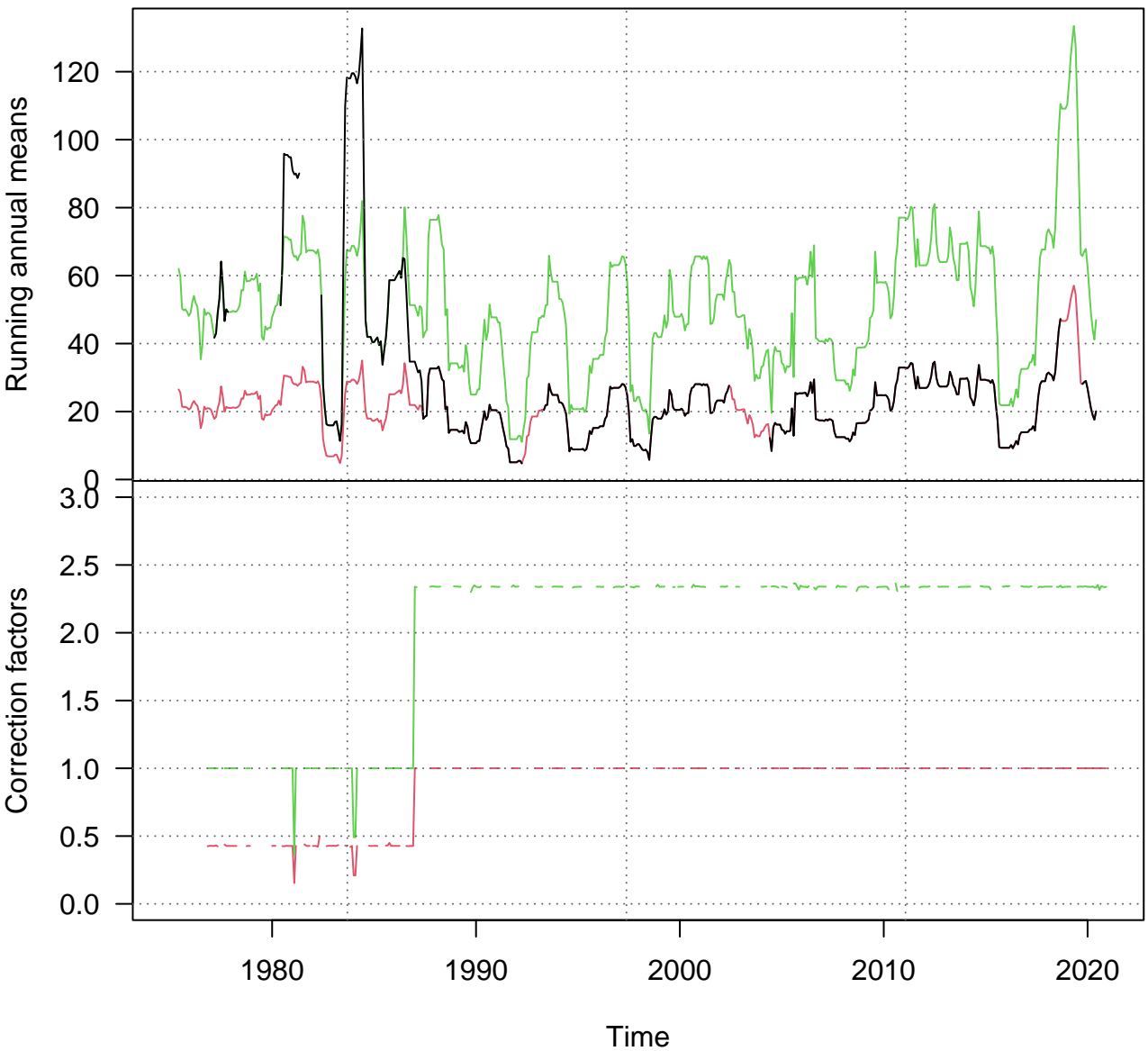
**pre-m 5 (4102)**  
**ayoayo**



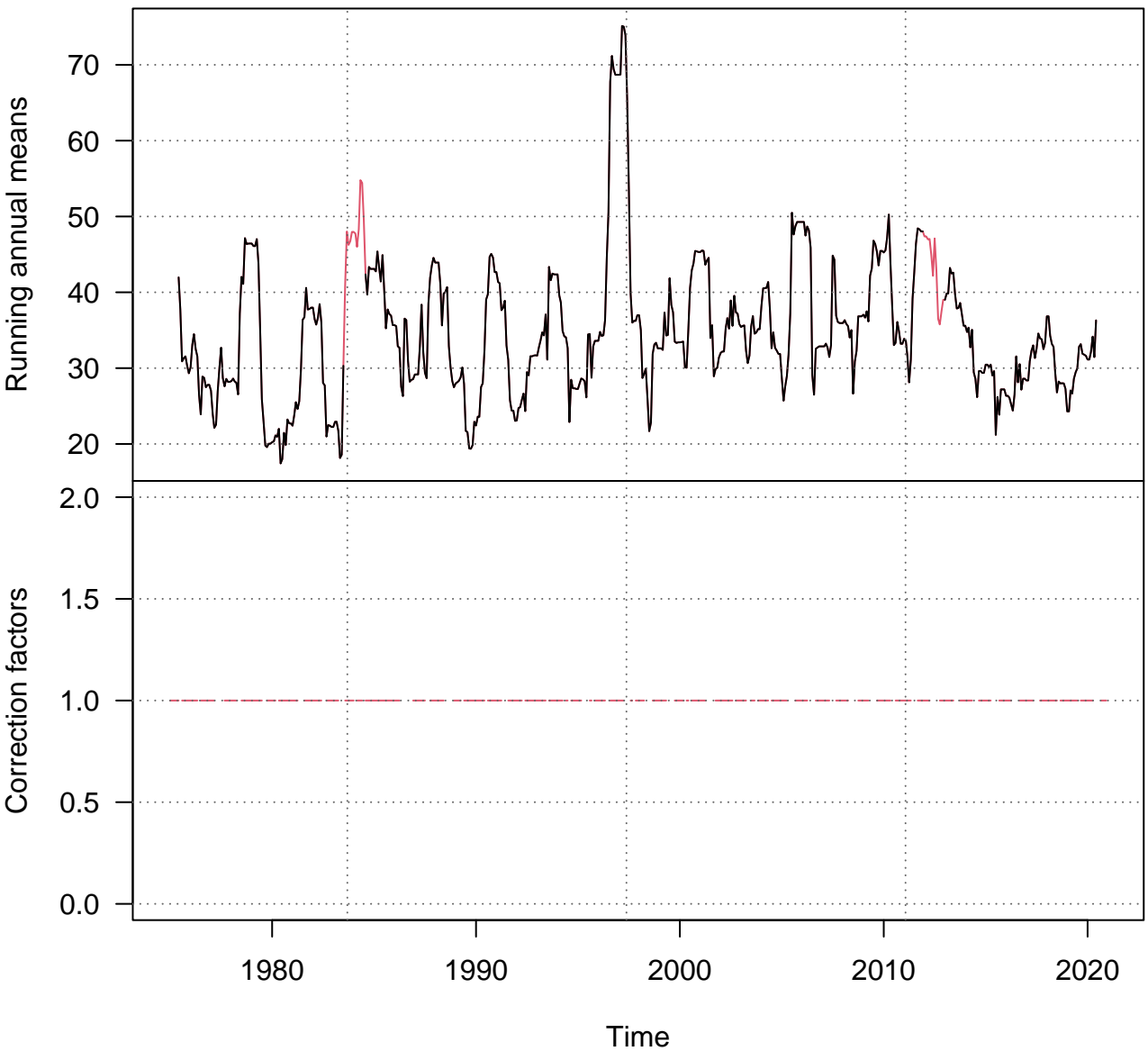
**pre-m 6 (4303)**  
**ayoma**



**pre-m 7 (4103)**  
**berenguela**

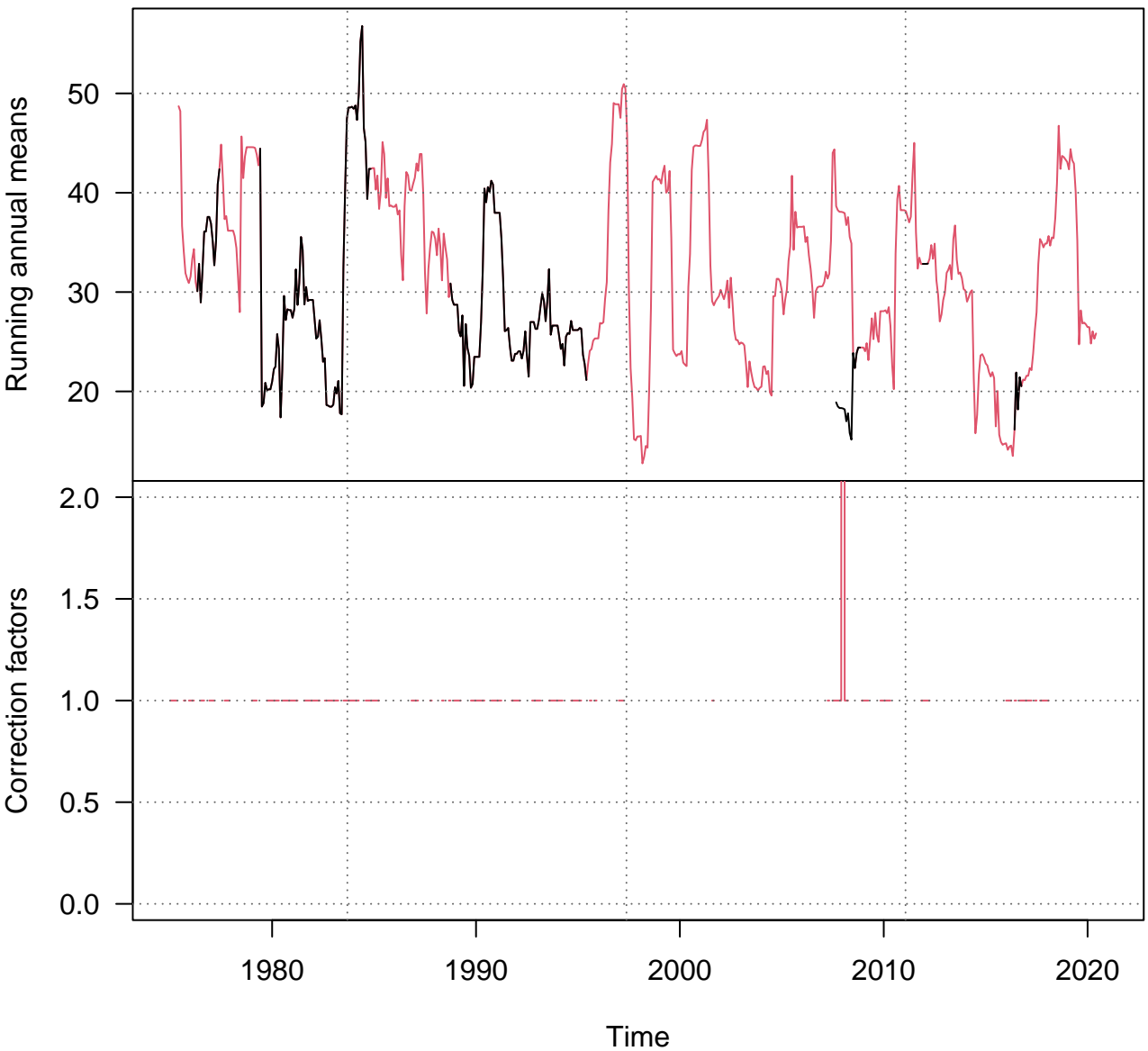


**pre-m 8 (4104)**  
**calacoto**

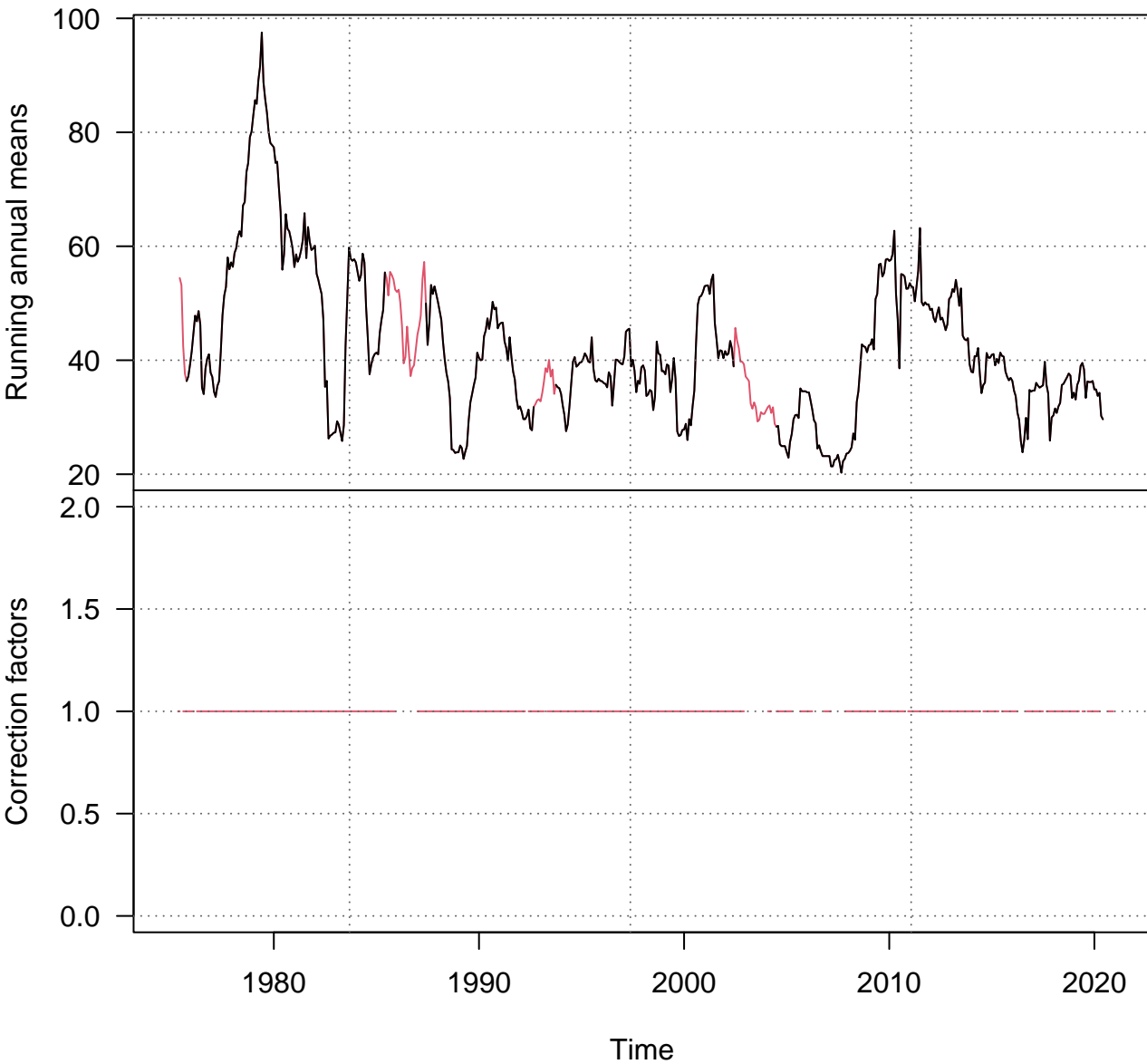




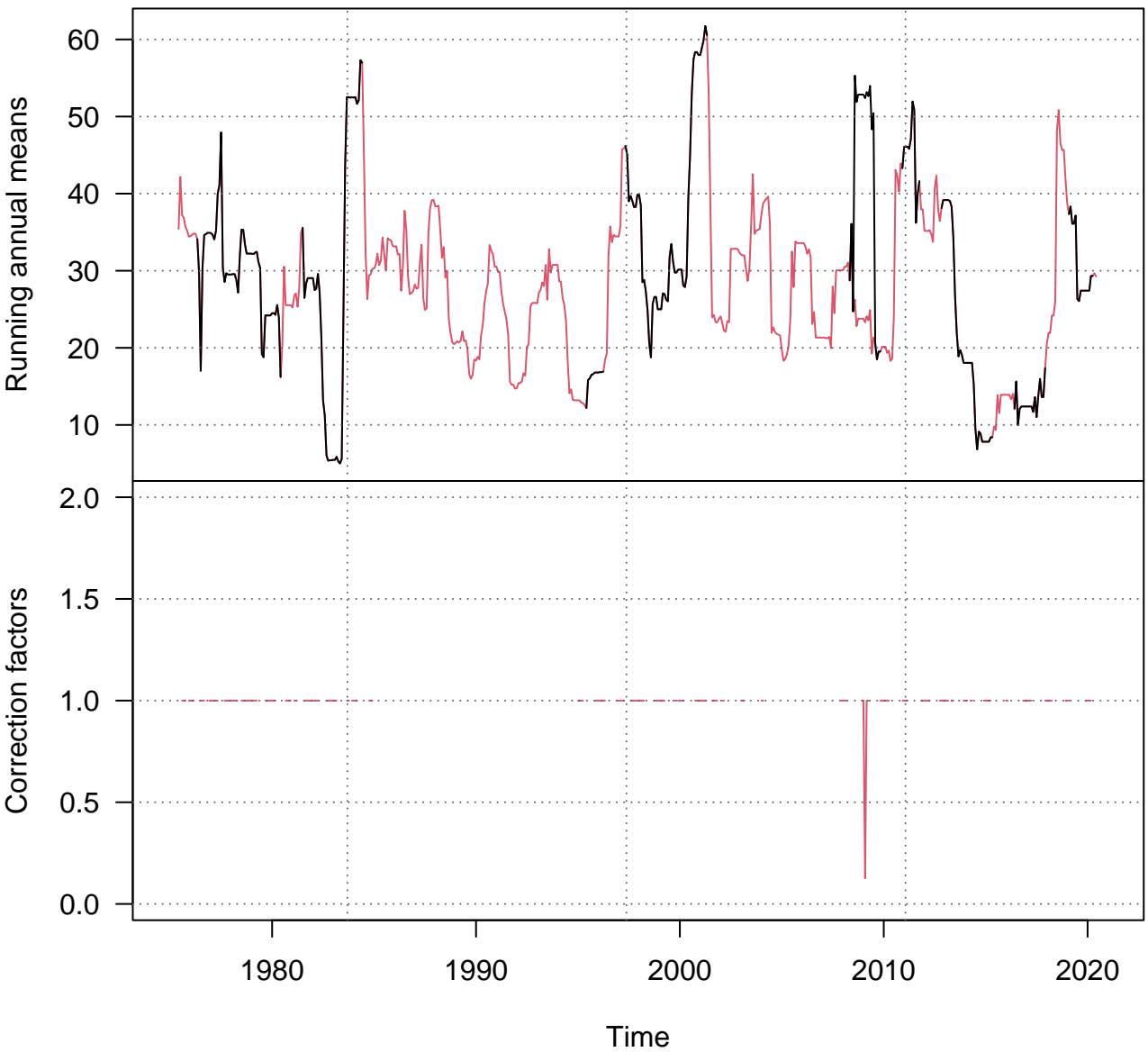
**pre-m 9 (4090)**  
**challapata**



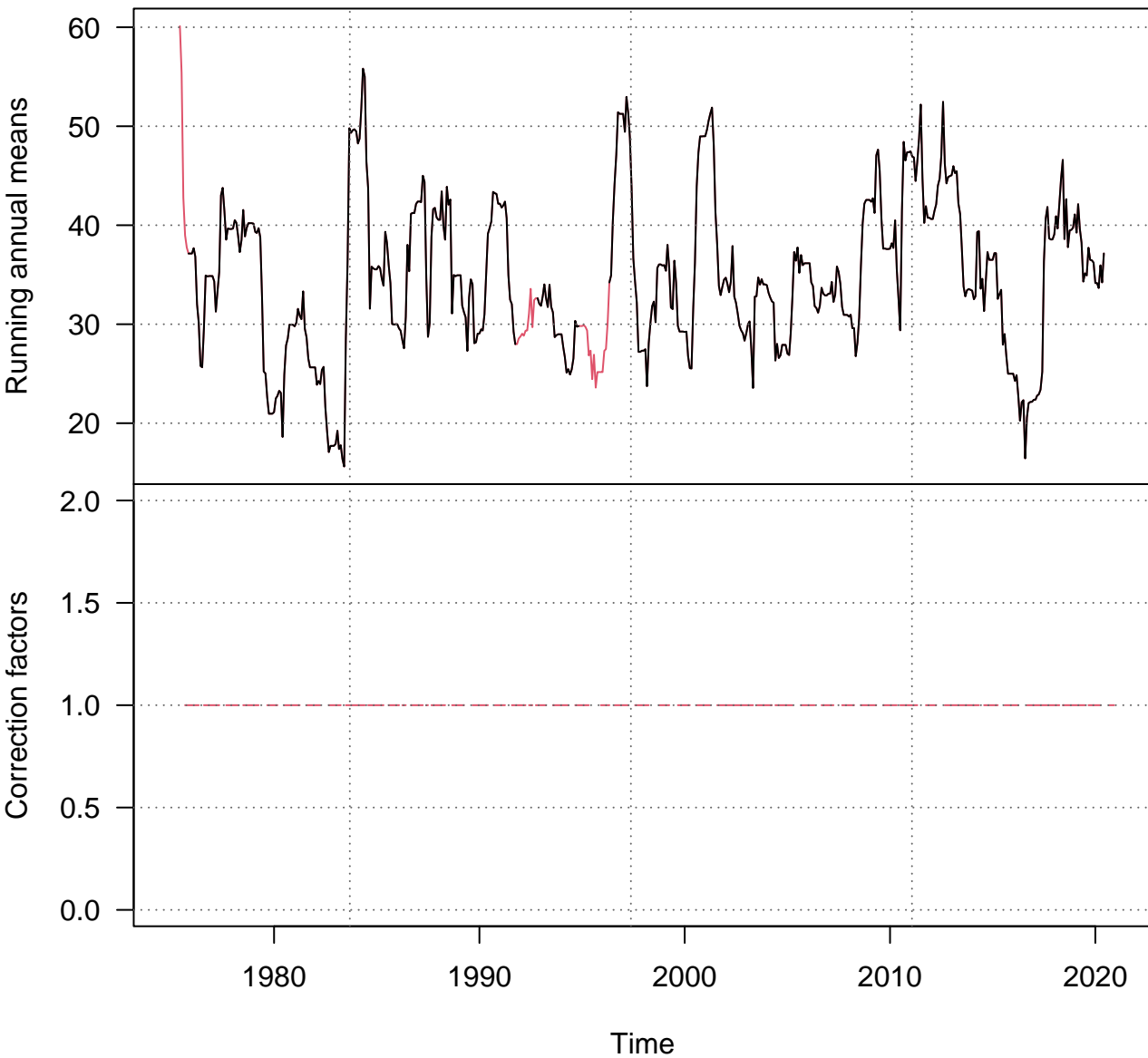
**pre-m 10 (4106)**  
**conchamarca**



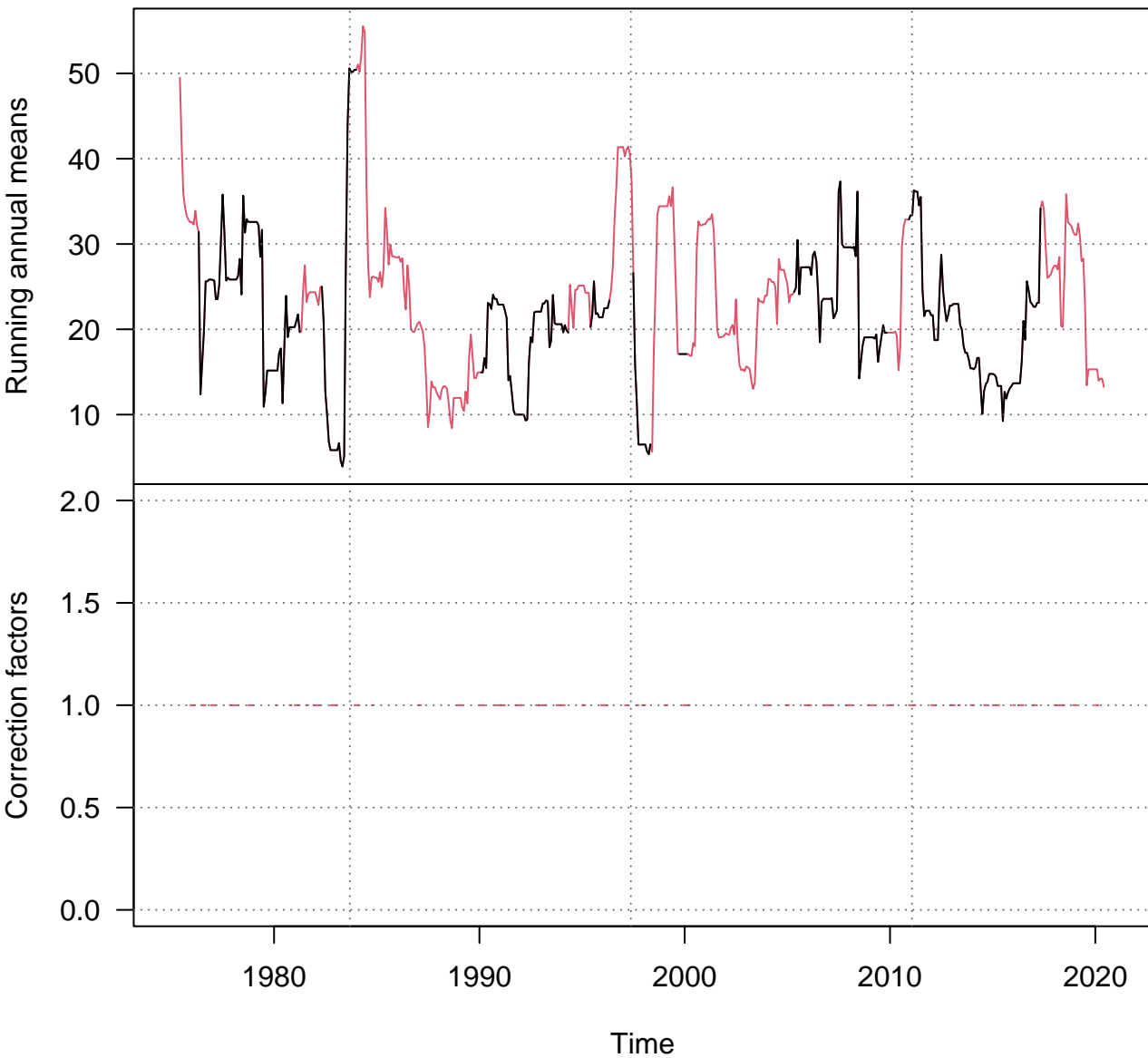
**pre-m 11 (4005)**  
**cosapa**



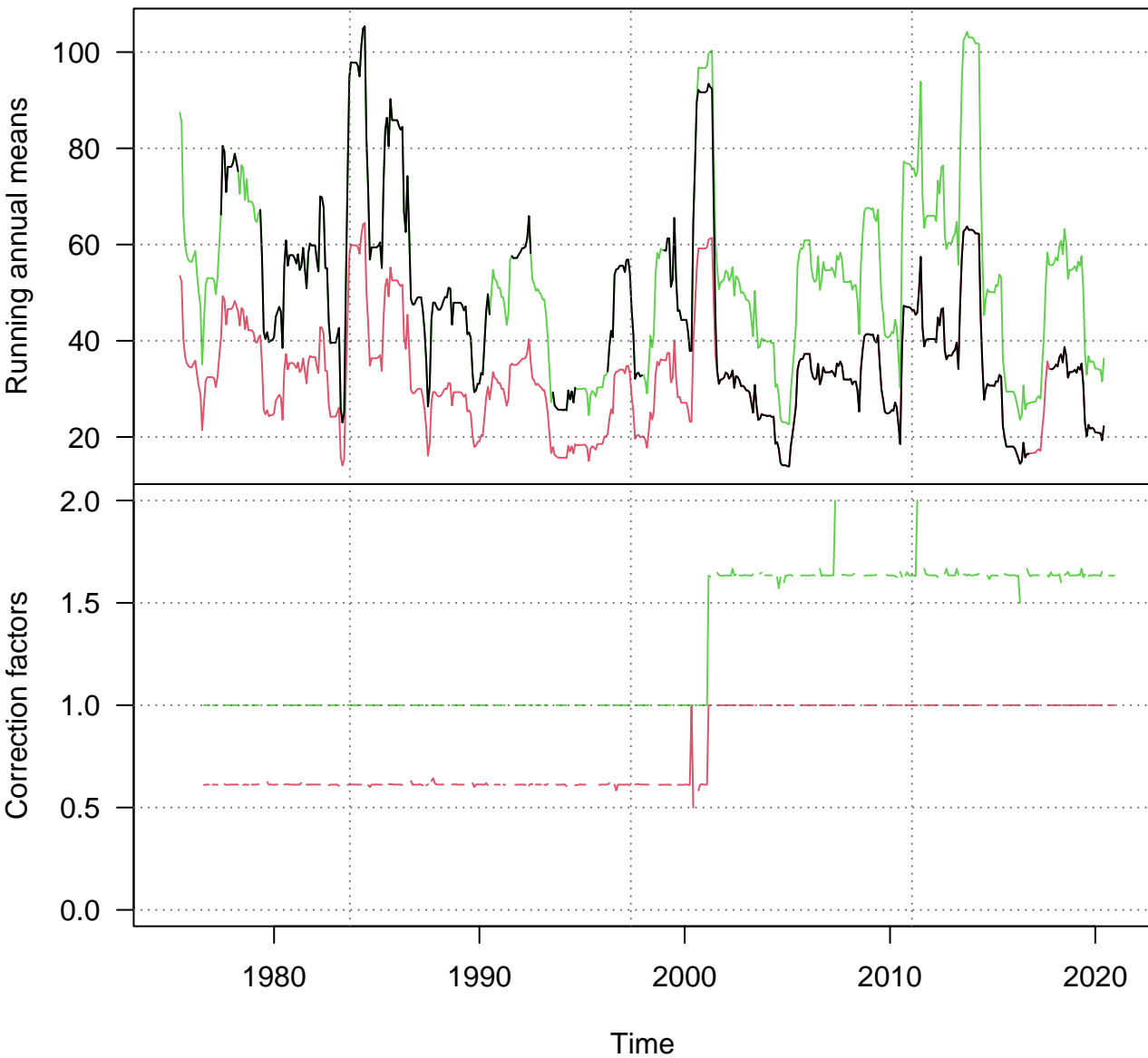
**pre-m 12 (4306)**  
**pinos**



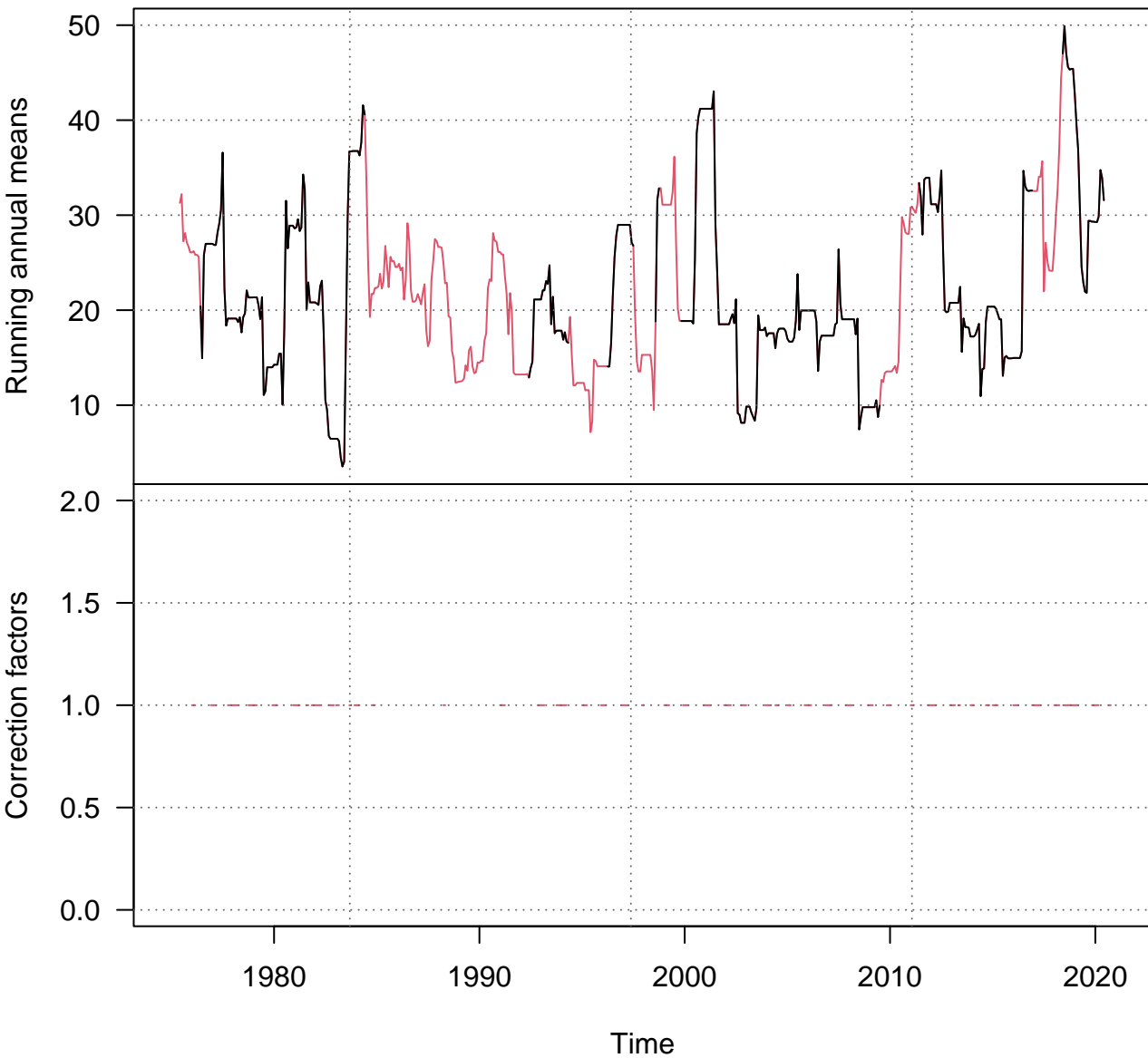
**pre-m 13 (4019)**  
**san\_martin**



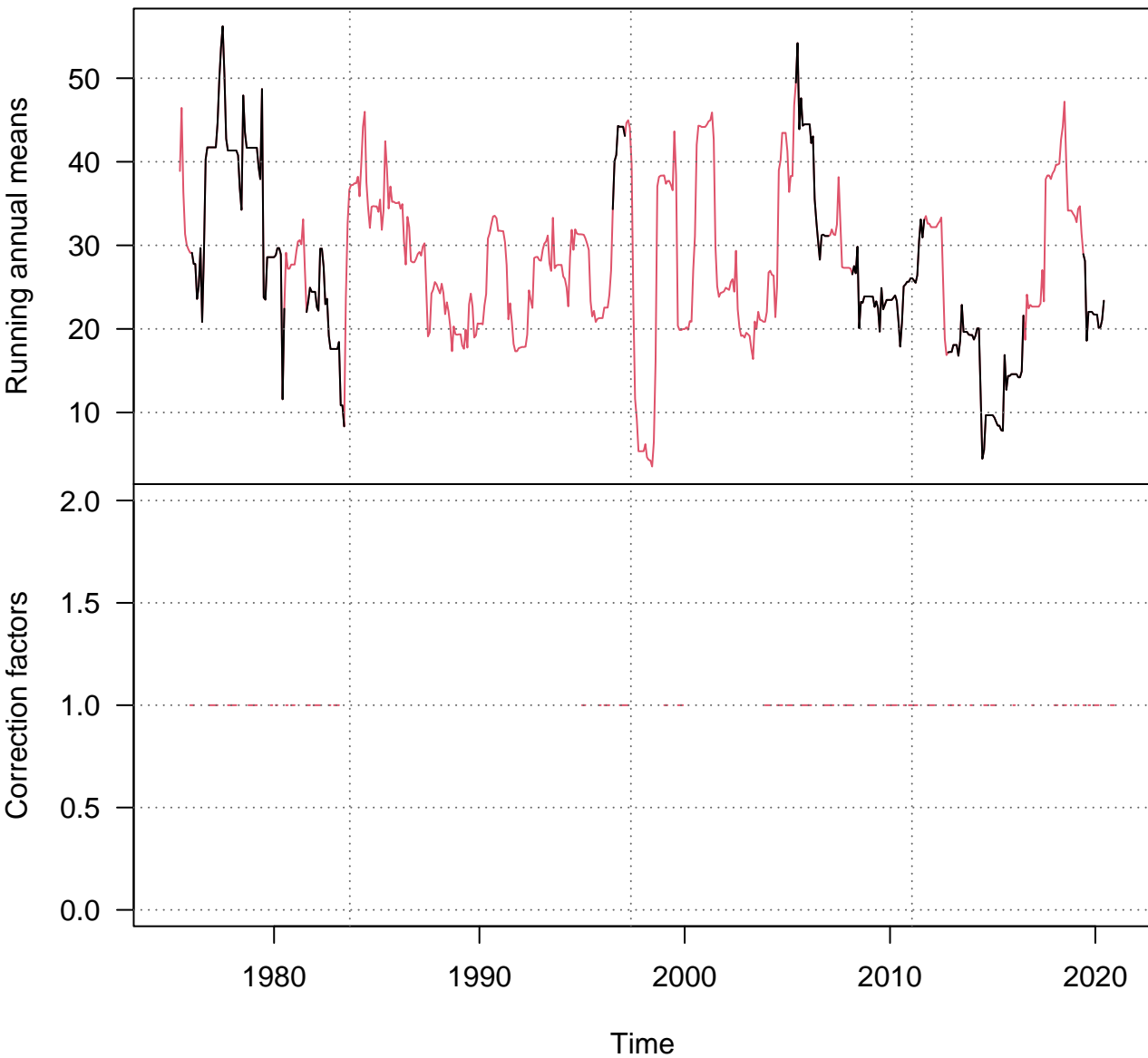
**pre-m 14 (4309)**  
**tinguipaya**



**pre-m 15 (4028)**  
**todo\_santos**

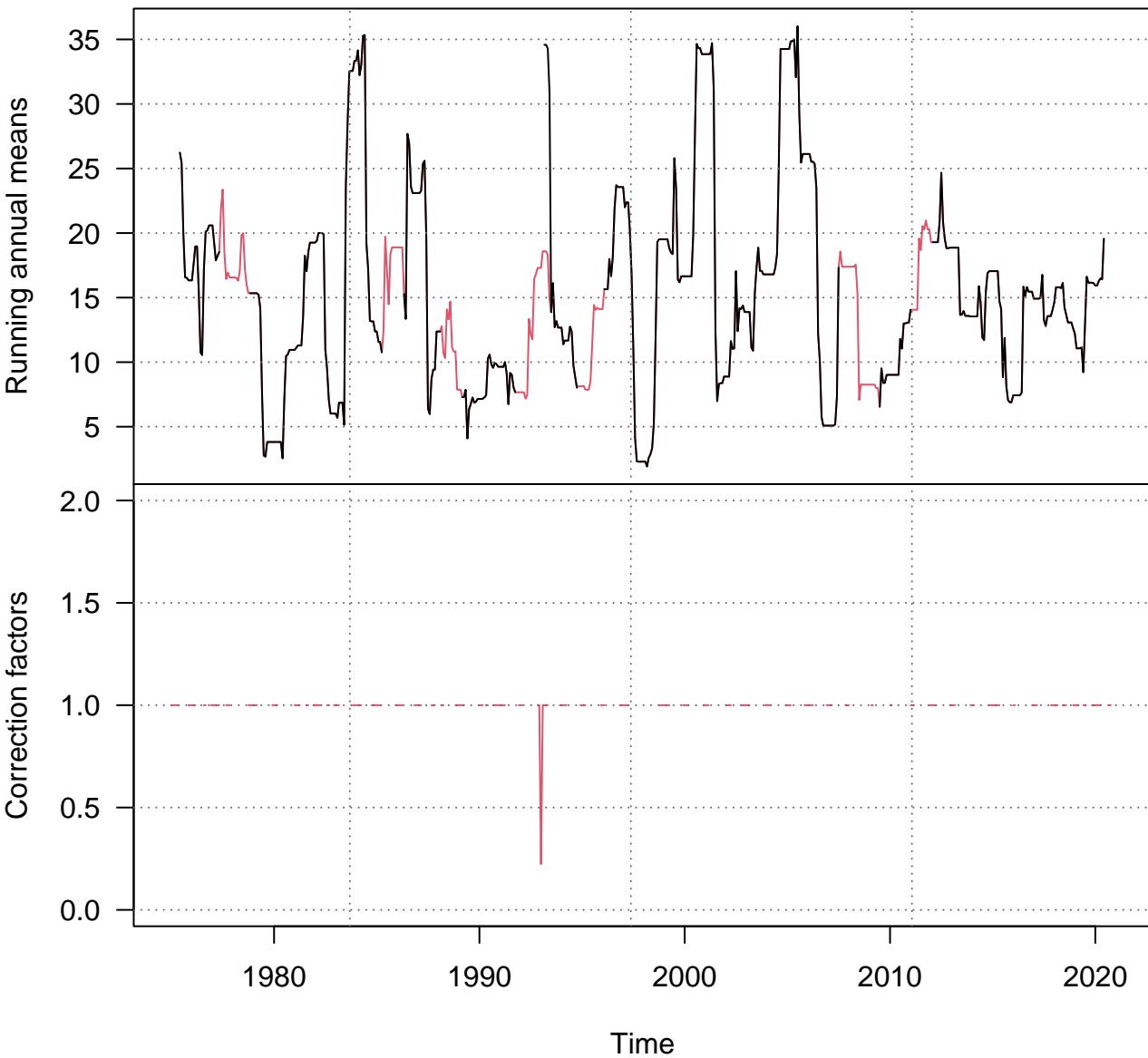


**pre-m 16 (4023)**  
**ucumasi**

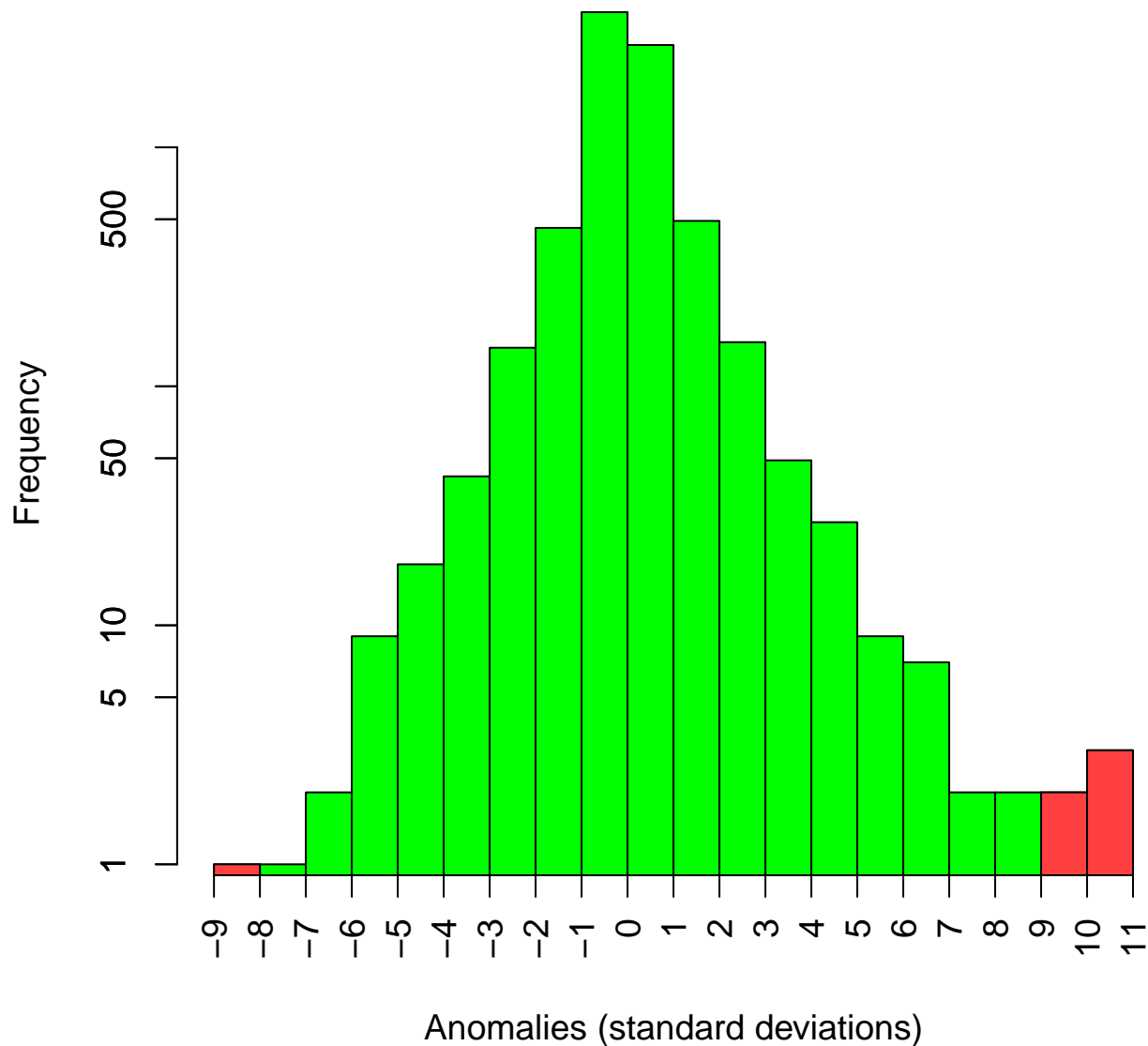




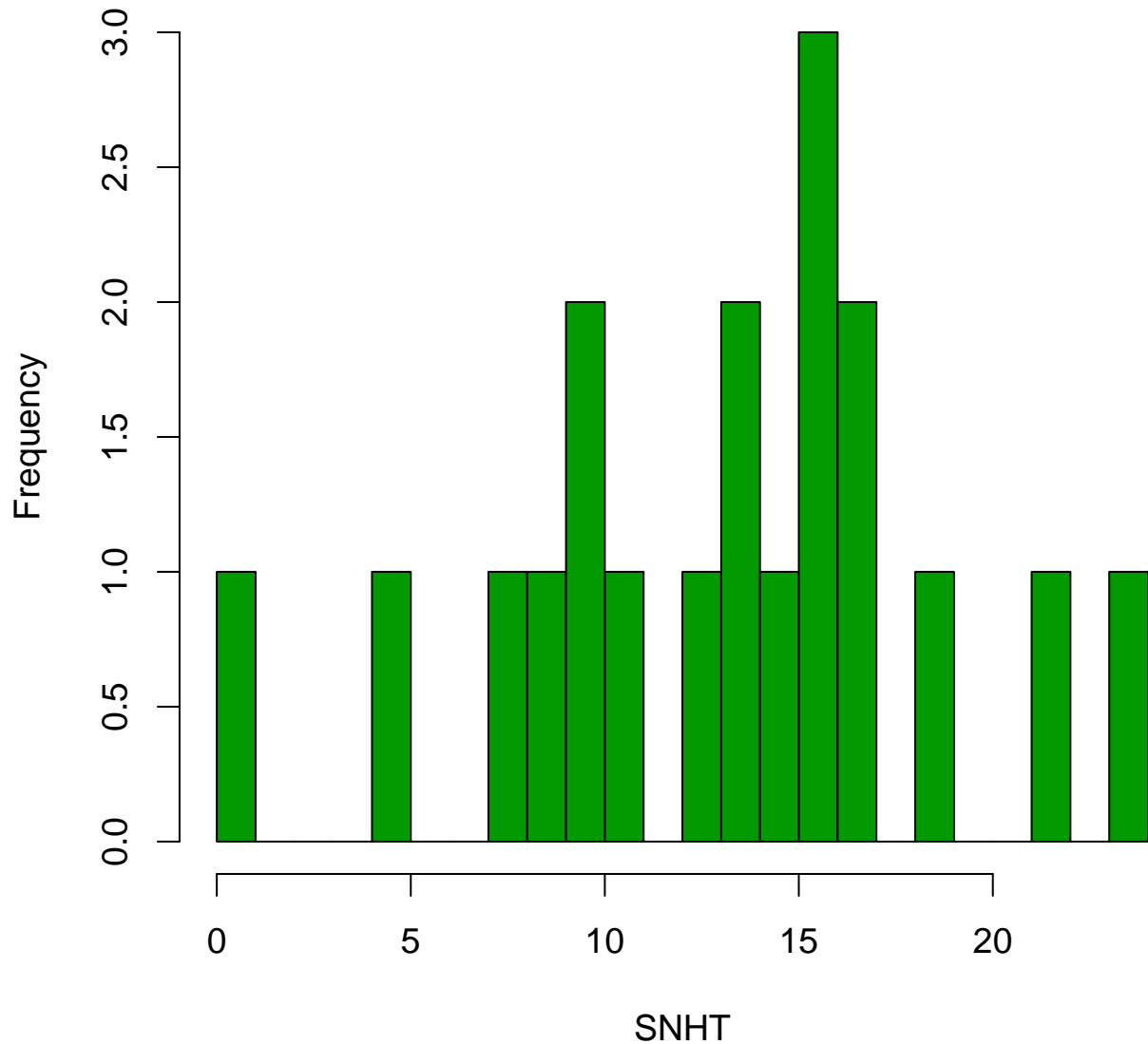
**pre-m 17 (4311)**  
**uyuni**



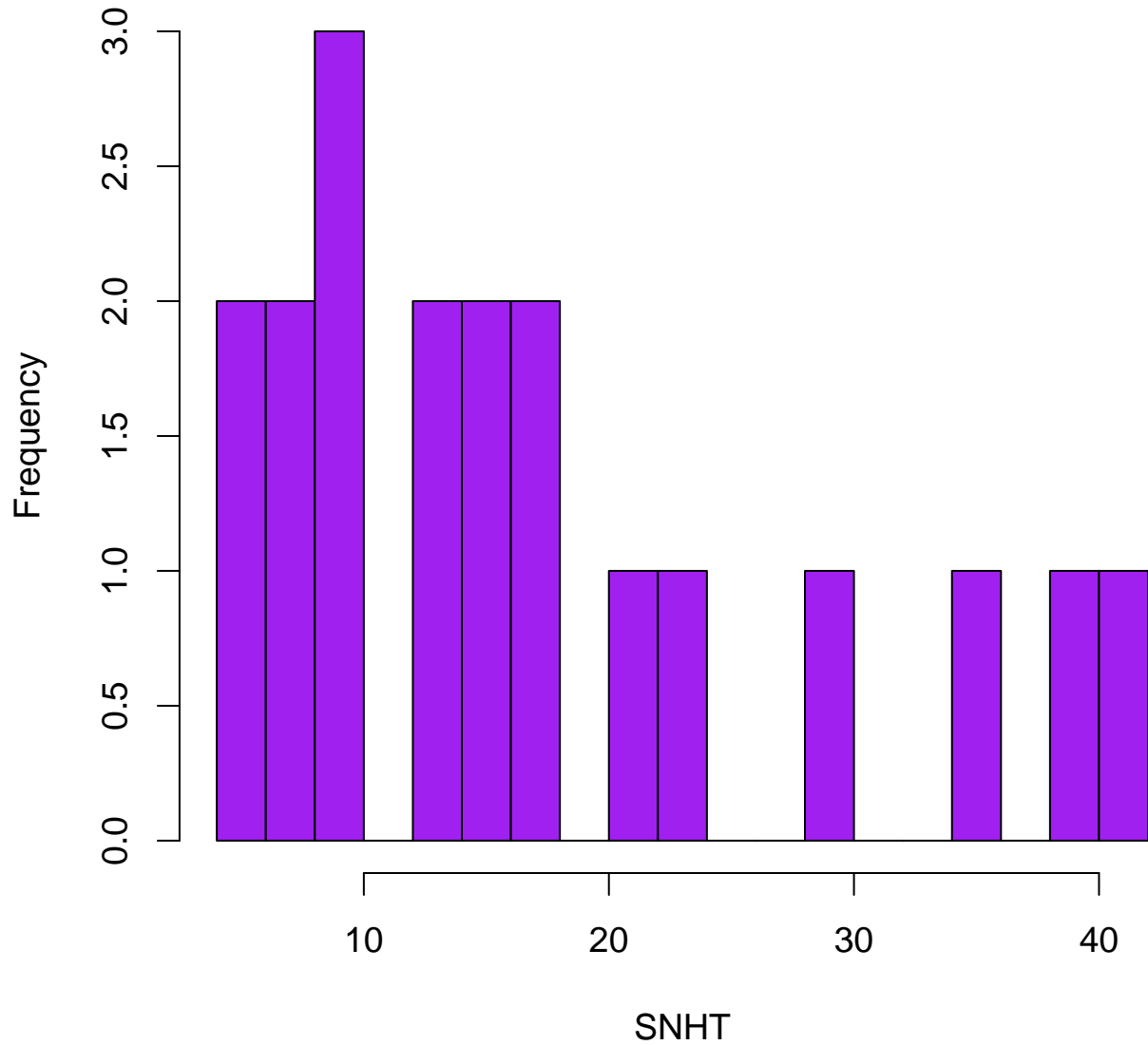
# Histogram of normalized anomalies



# Histogram of maximum windowed SNHT



**Histogram of maximum global SNHT**



## Station's quality/singularity

