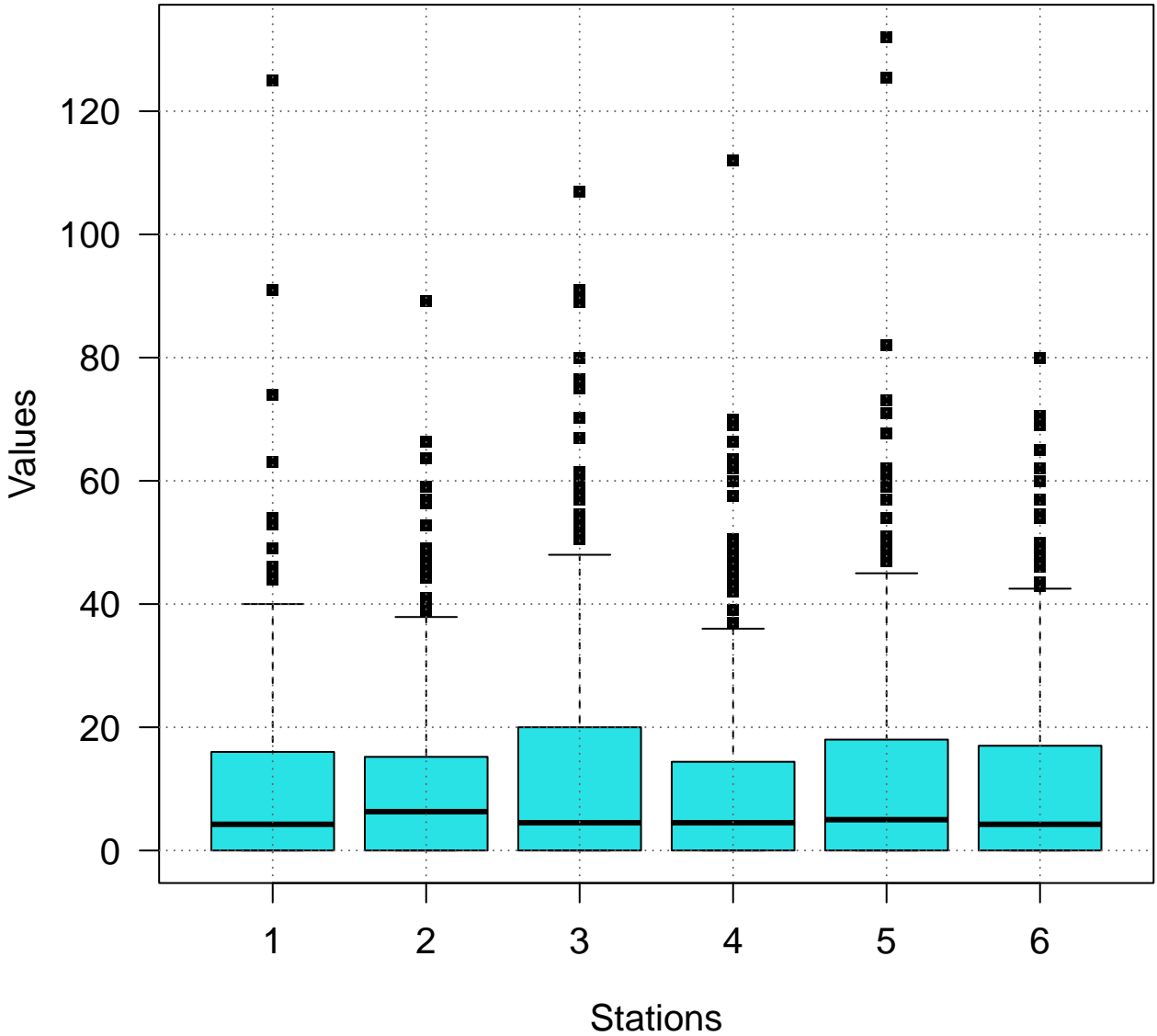


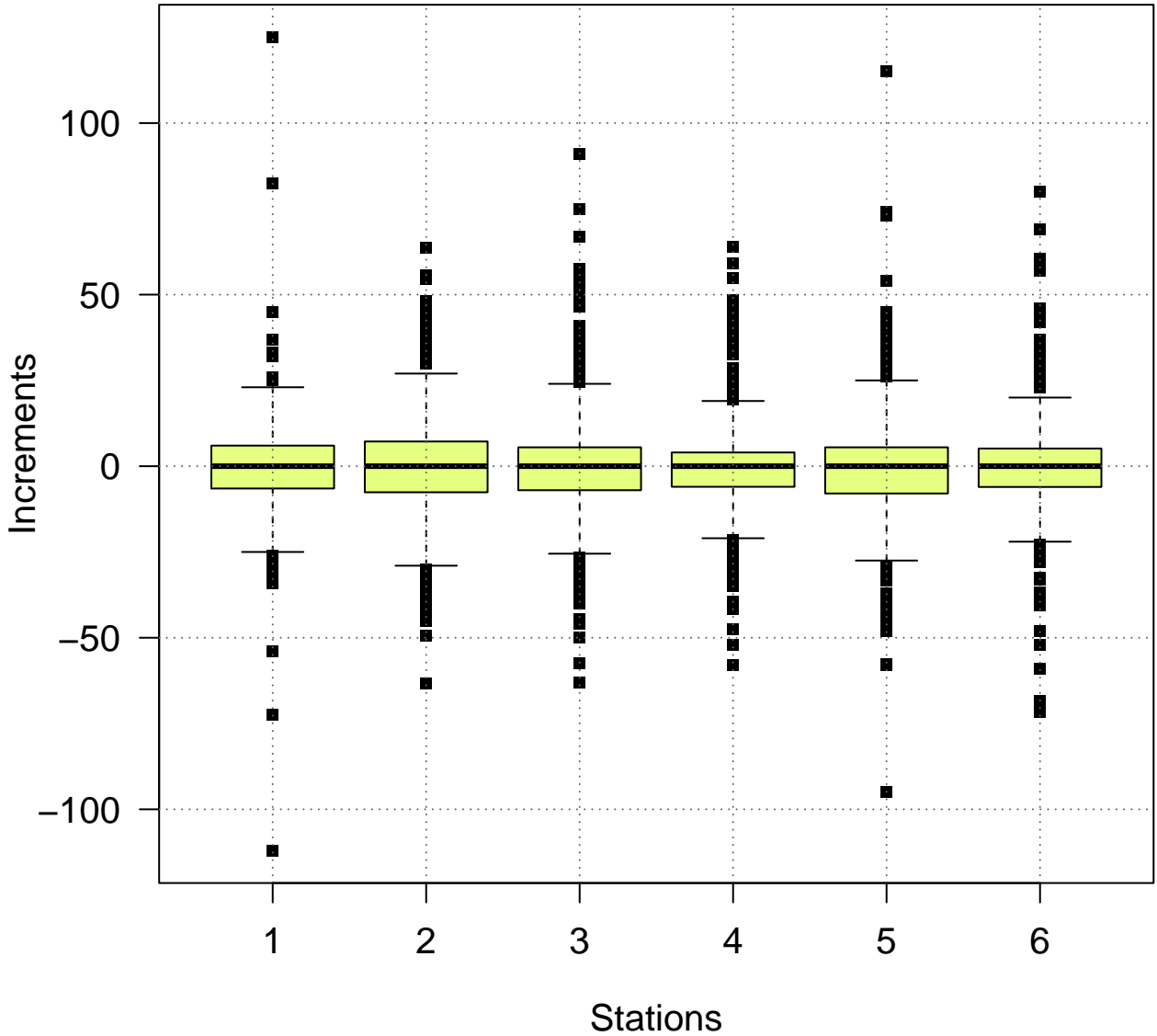
# CLIMATOL 4.1.0

Homogenization  
graphic output of  
precipitation  
1980–2020

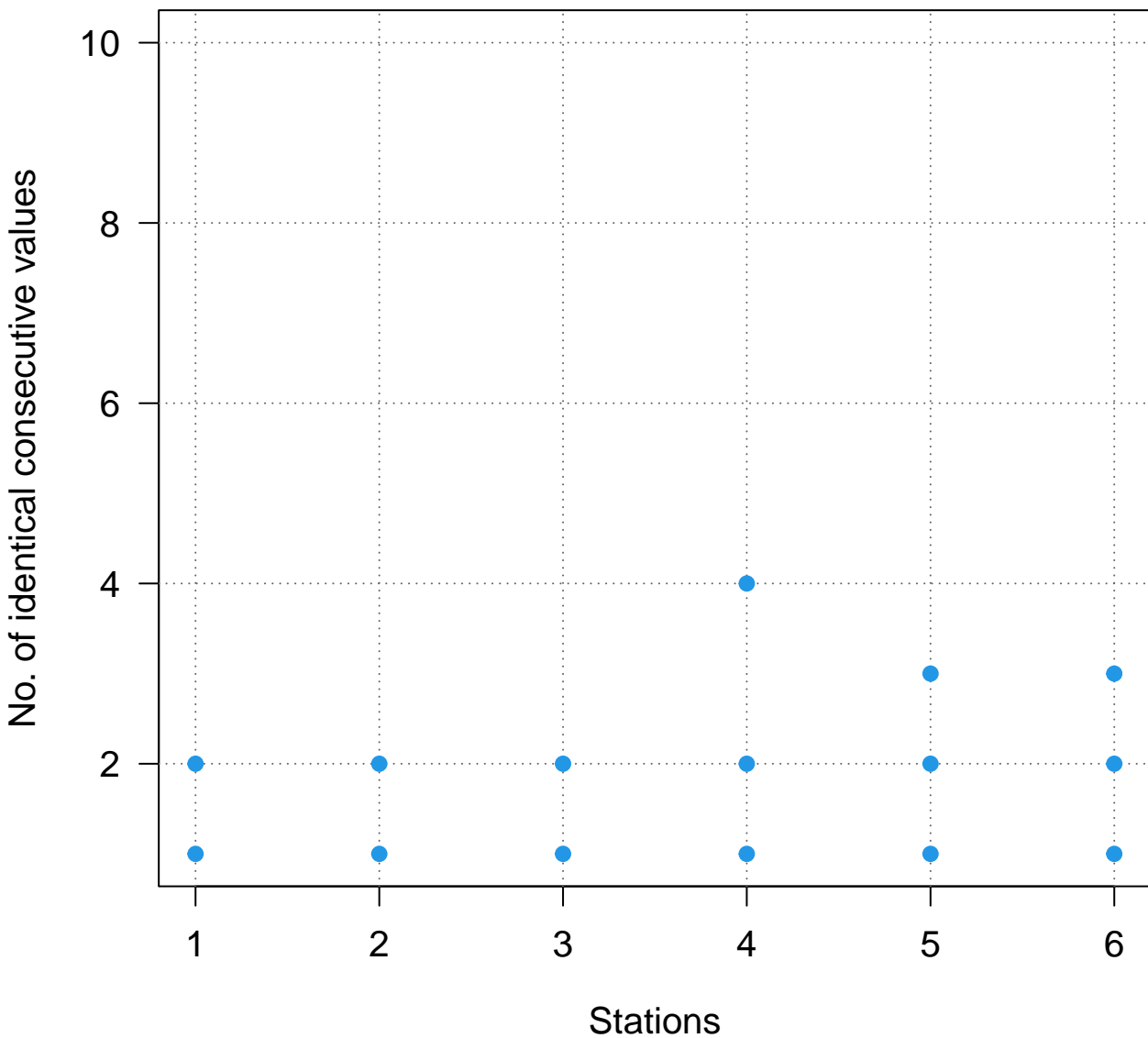
# precipitation data



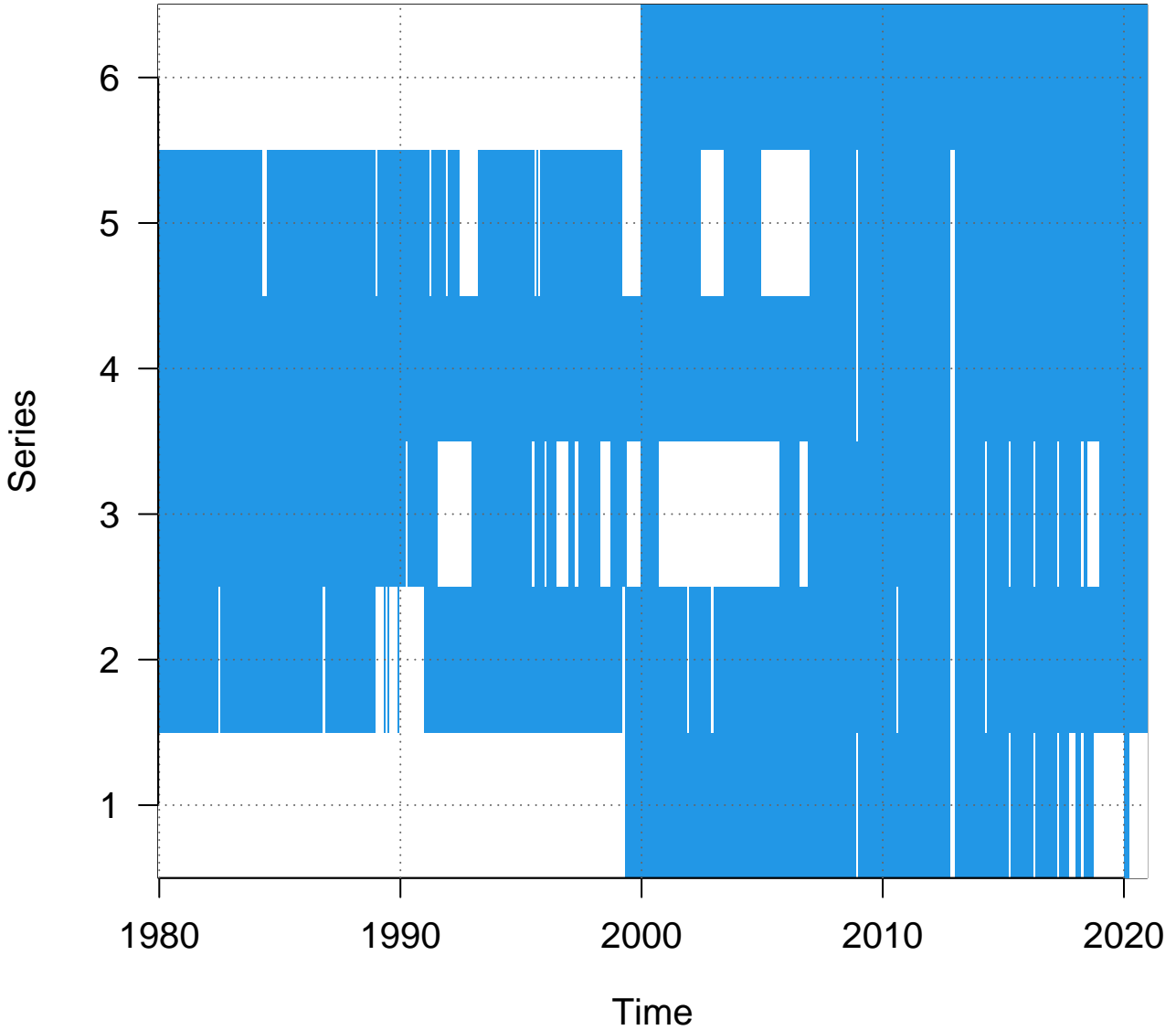
# precipitacion data increments



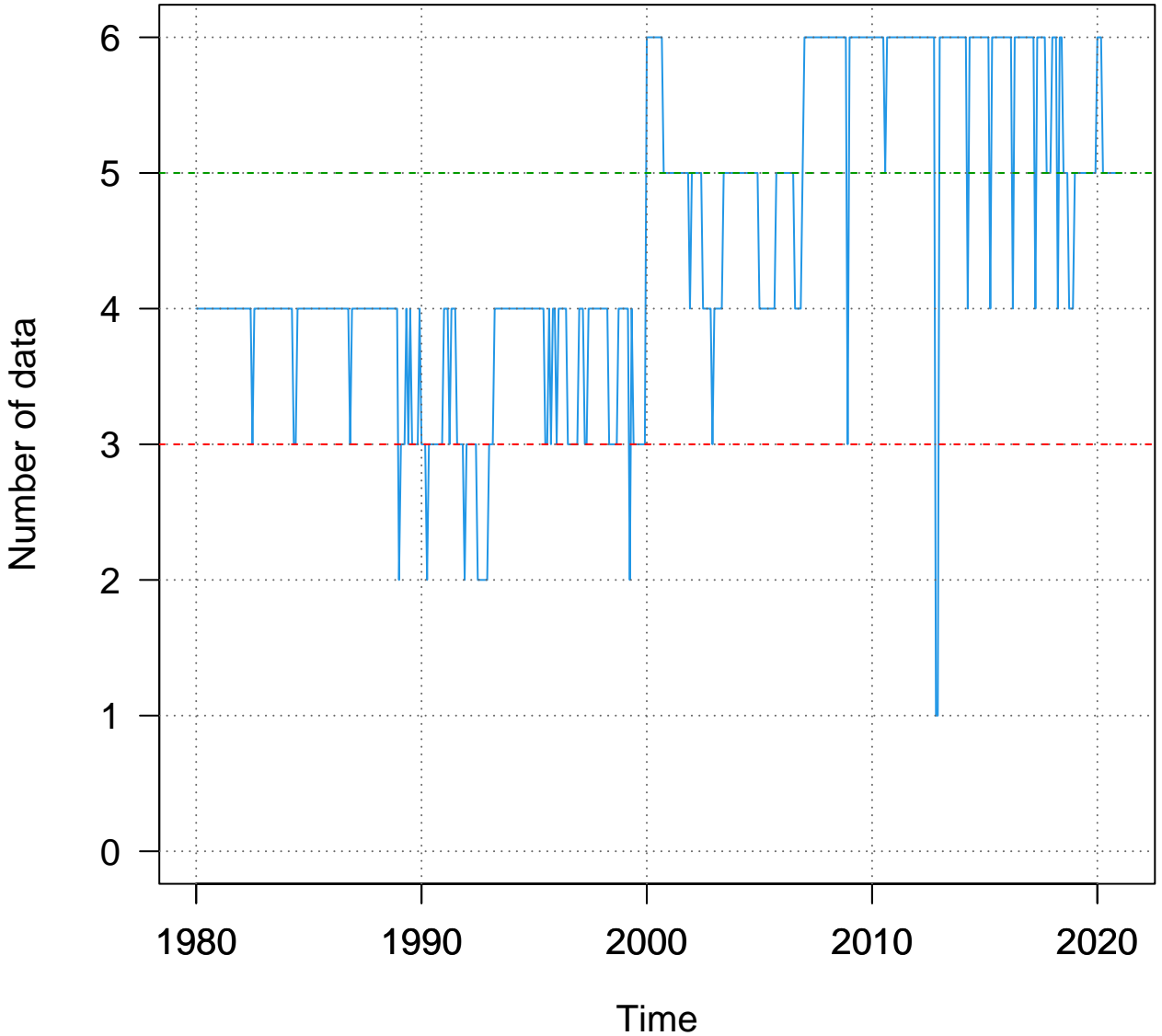
# precipitacion run lengths



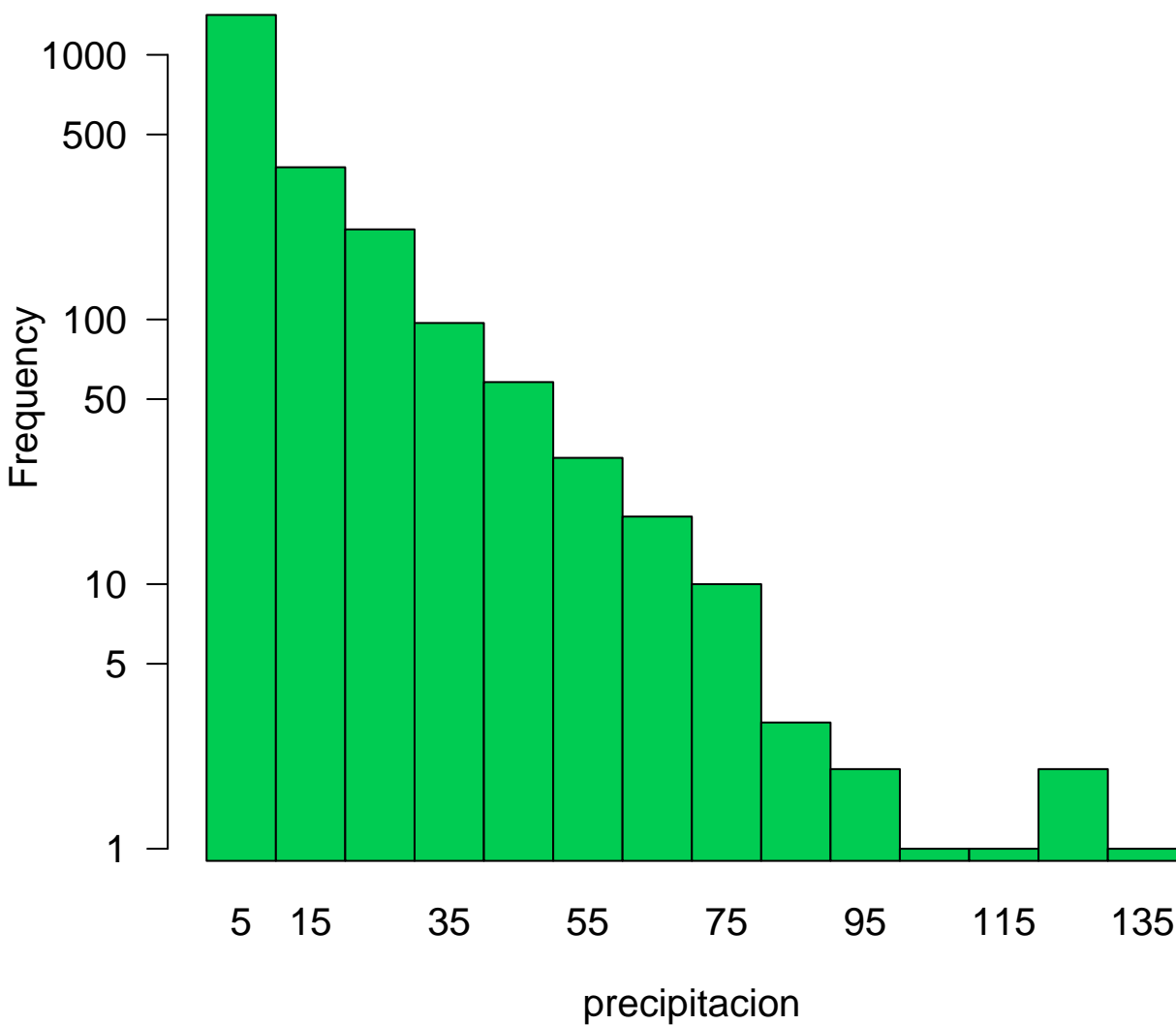
# precipitacion data availability



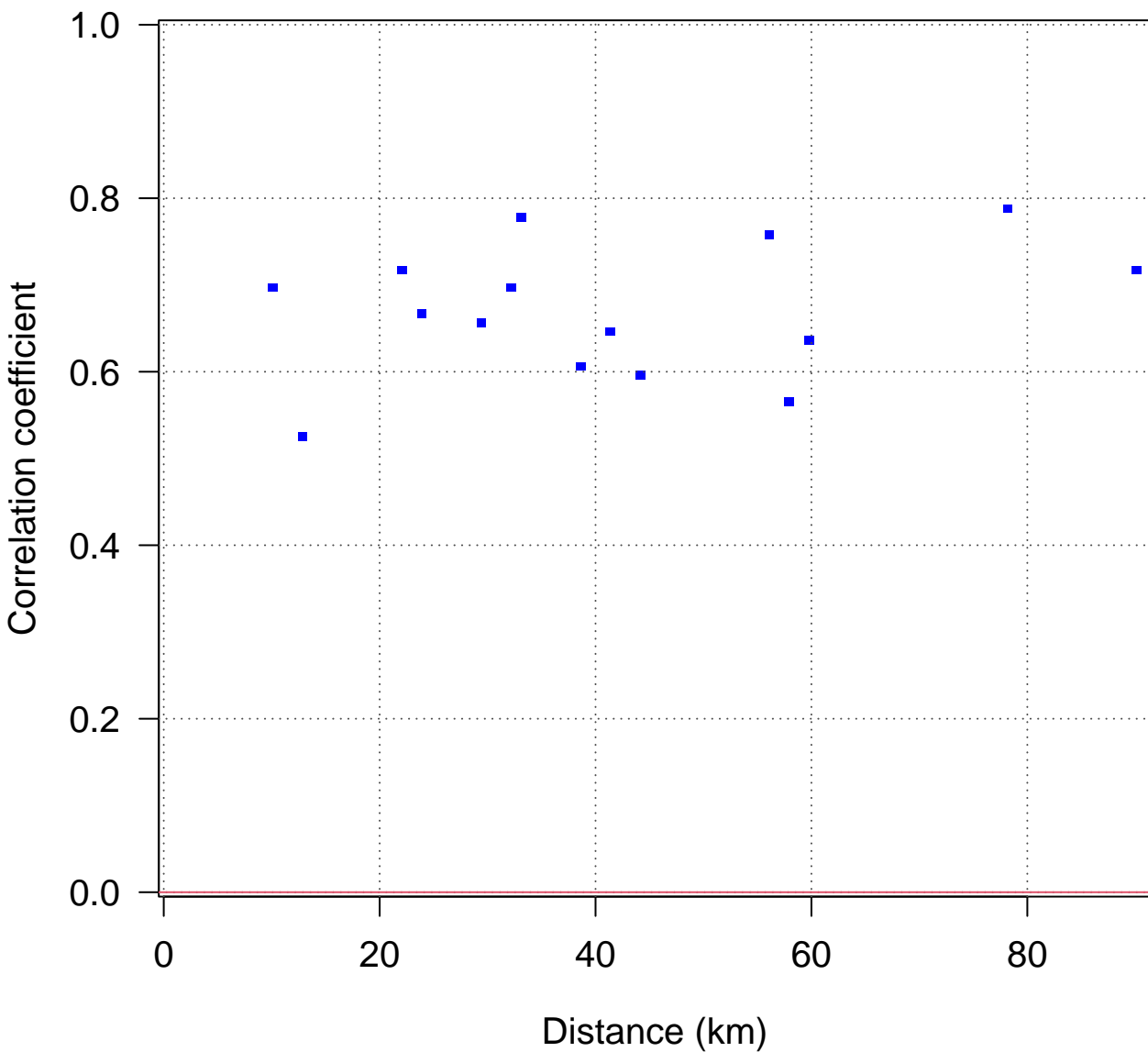
**Number of precipitation data in all stations**



**Histogram of all data**

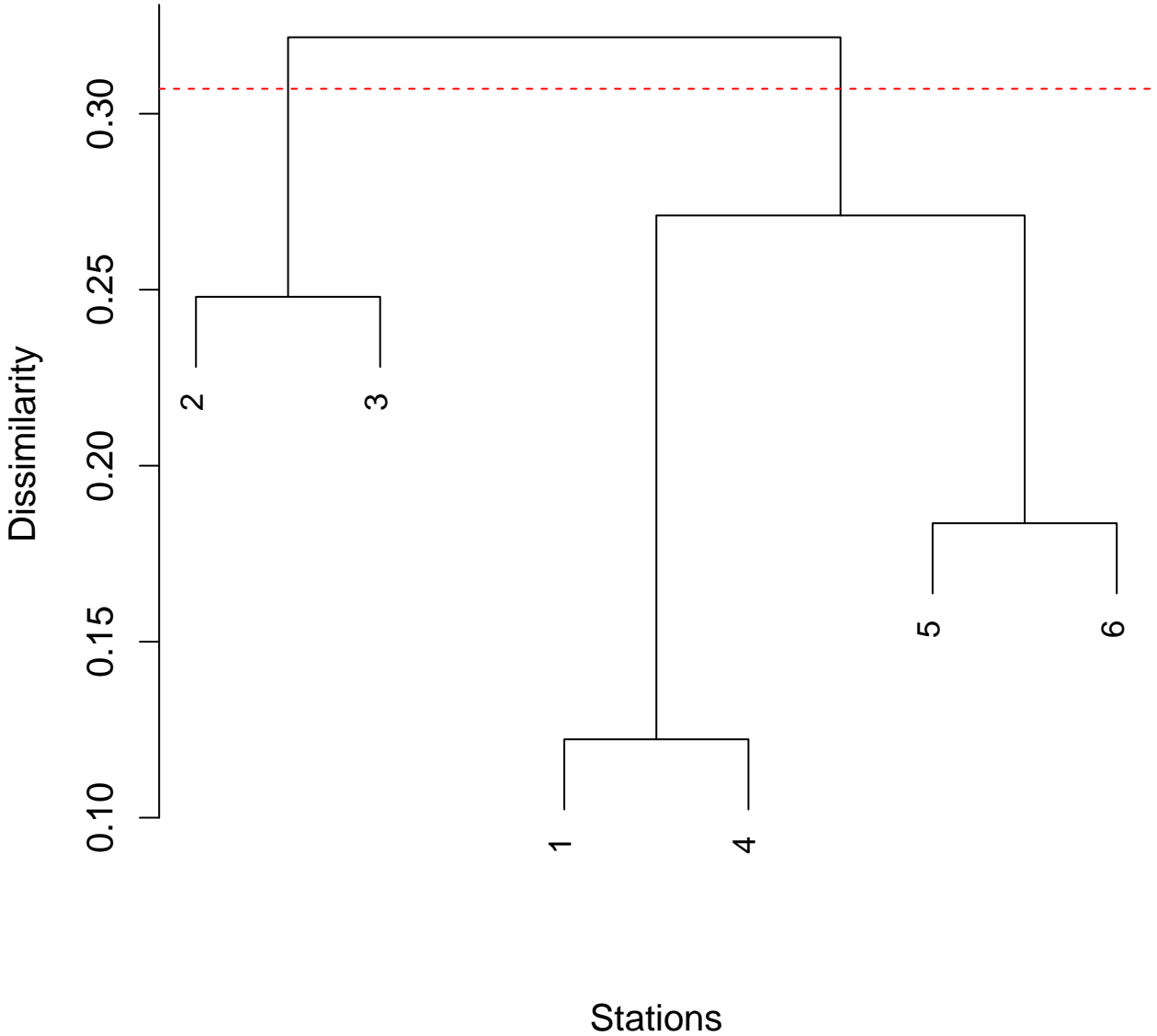


**Correlogram of first difference precipitation series**

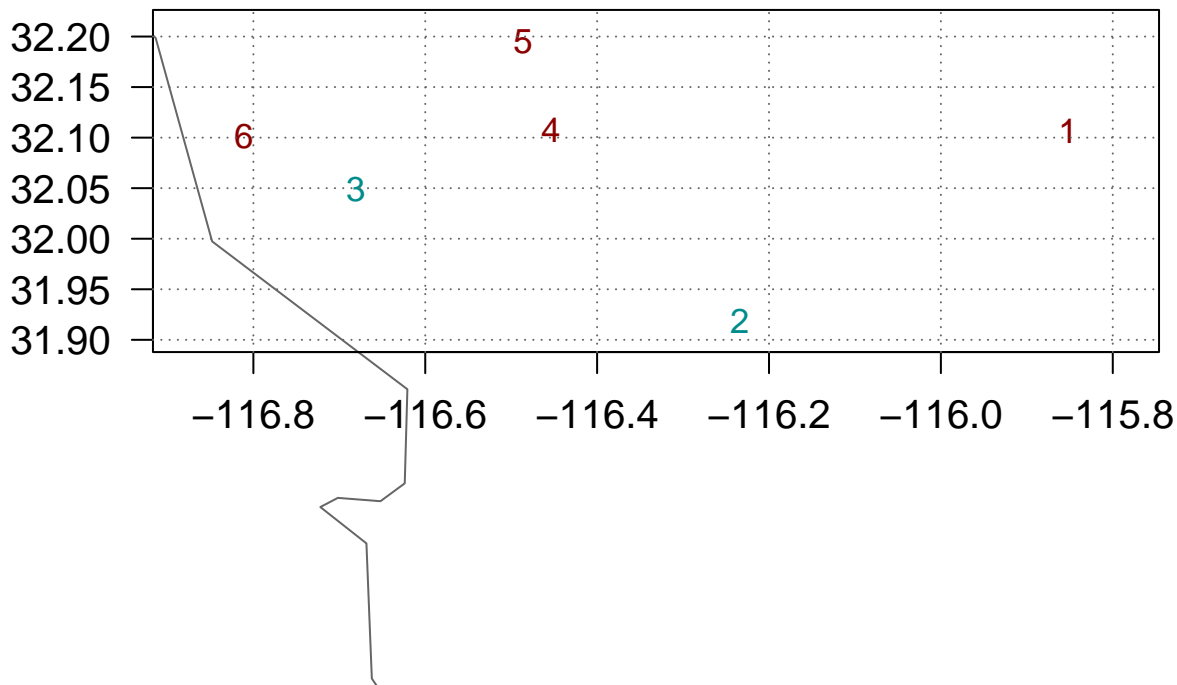




**Dendrogram of station clusters**



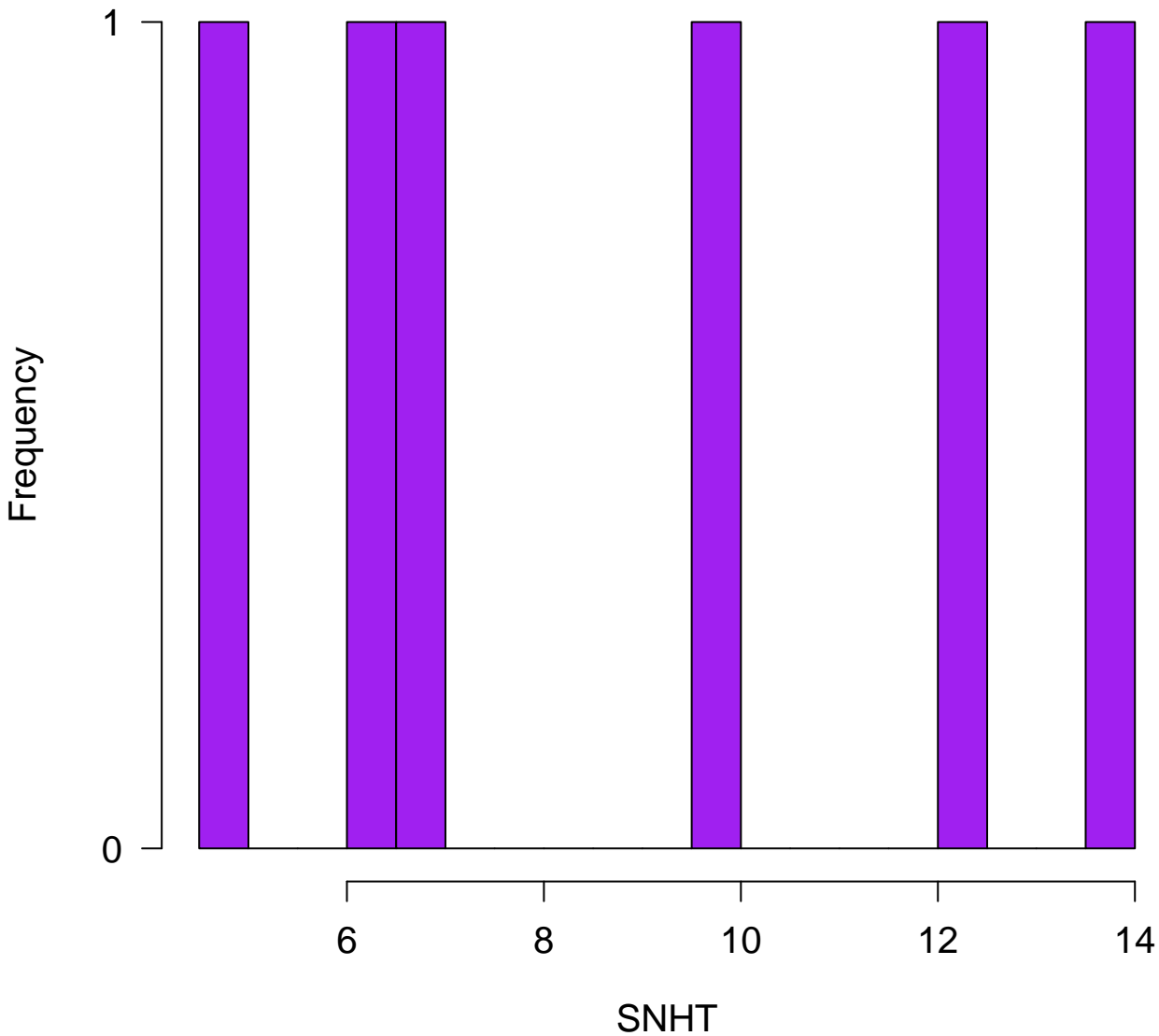
## precipitacion station locations (2 clusters)



# Stage 1

Binary splits on 60 terms  
stepped windows with  
std=2, SNHT>25  
and wd=0 km

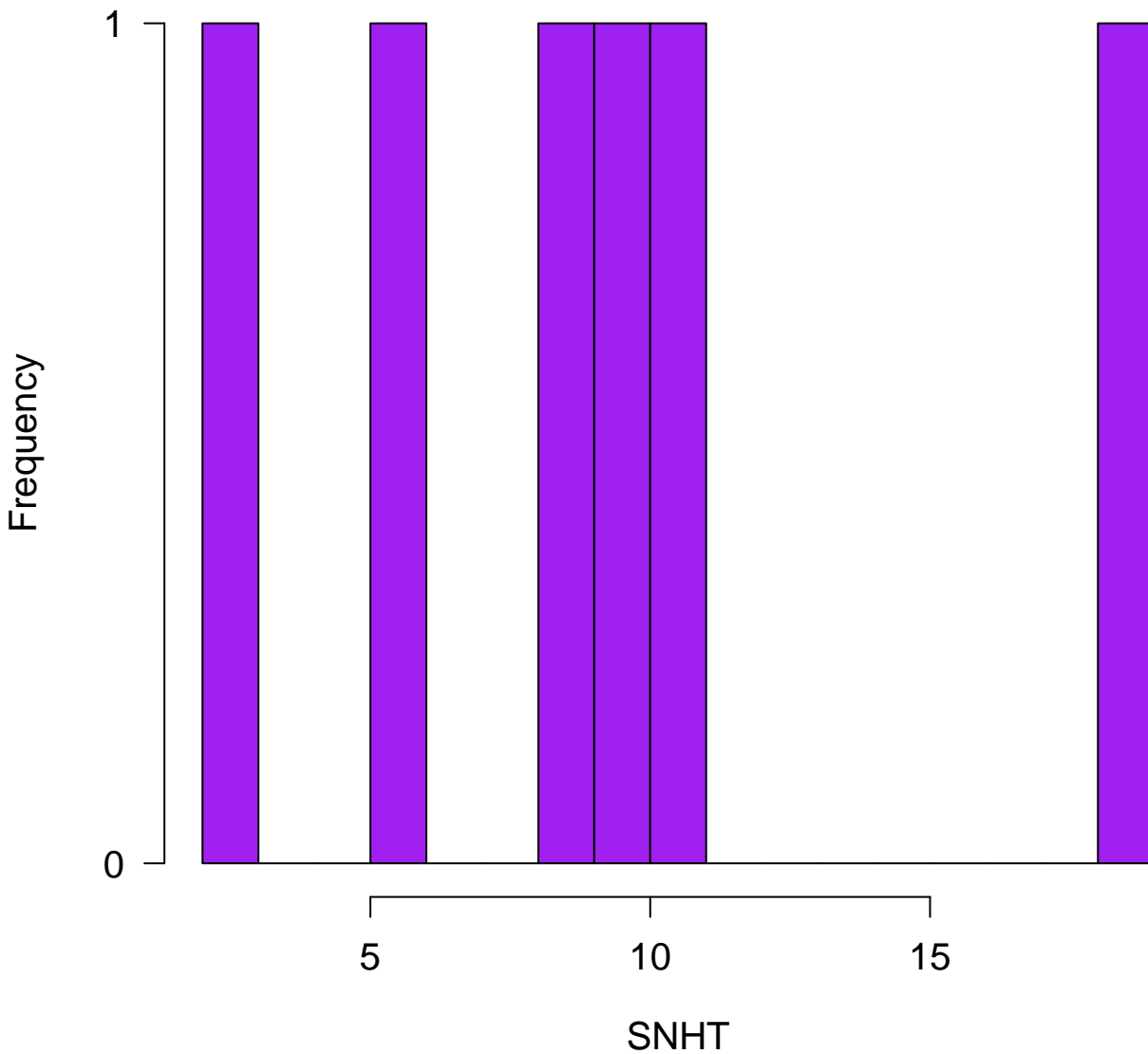
**Histogram of maximum SNHT (Stage 1)**



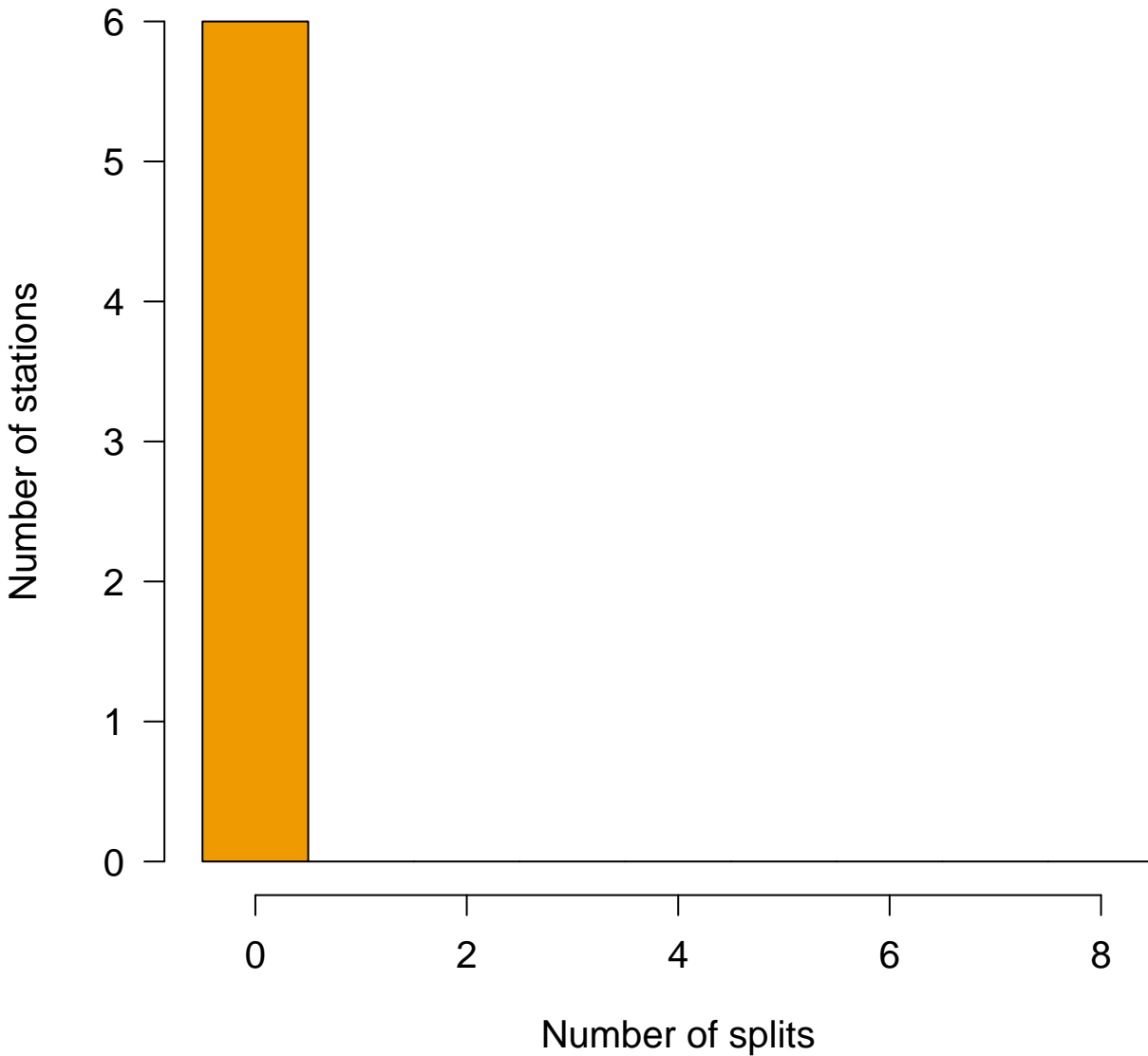
# Stage 2

Binary splits on  
whole series with  
 $\text{std}=2$ ,  $\text{SNHT}>25$   
and  $\text{wd}=0$  km

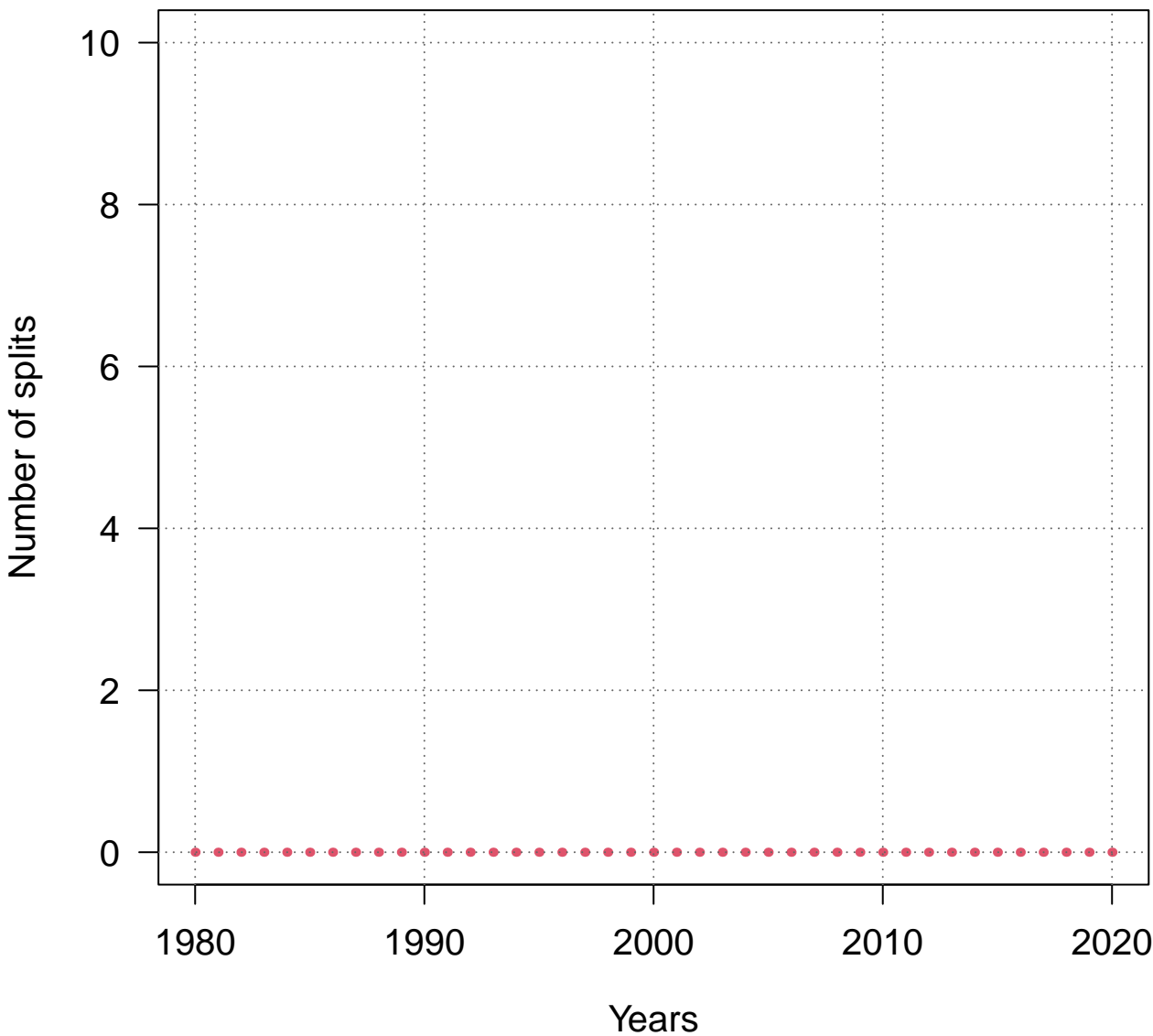
**Histogram of maximum SNHT (Stage 2)**



**Number of splits per station**



# Number of splits per year

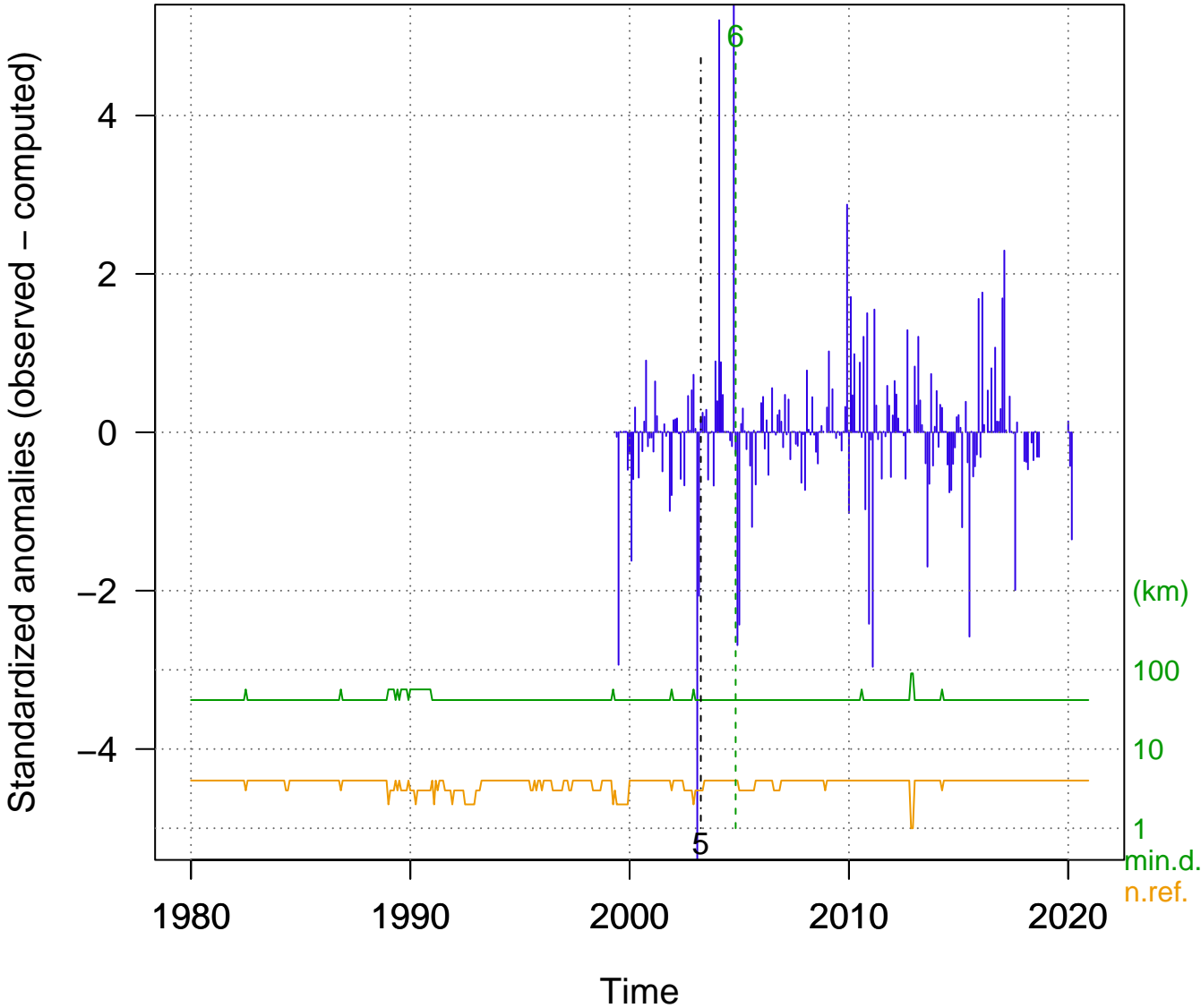




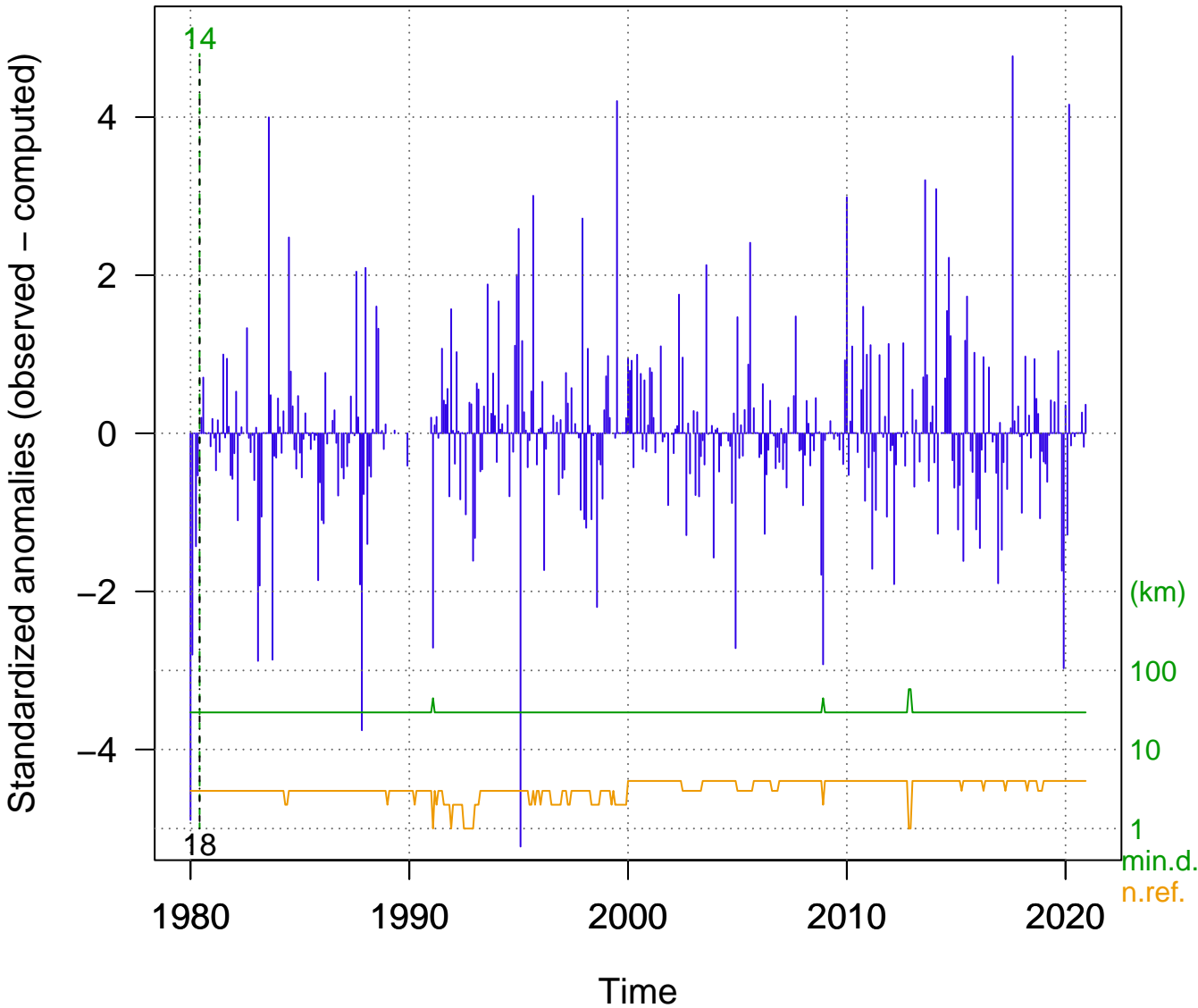
# Stage 3

Final anomalies of the  
homogenized series with  
 $wd = 100$  km and  $nref = 4$

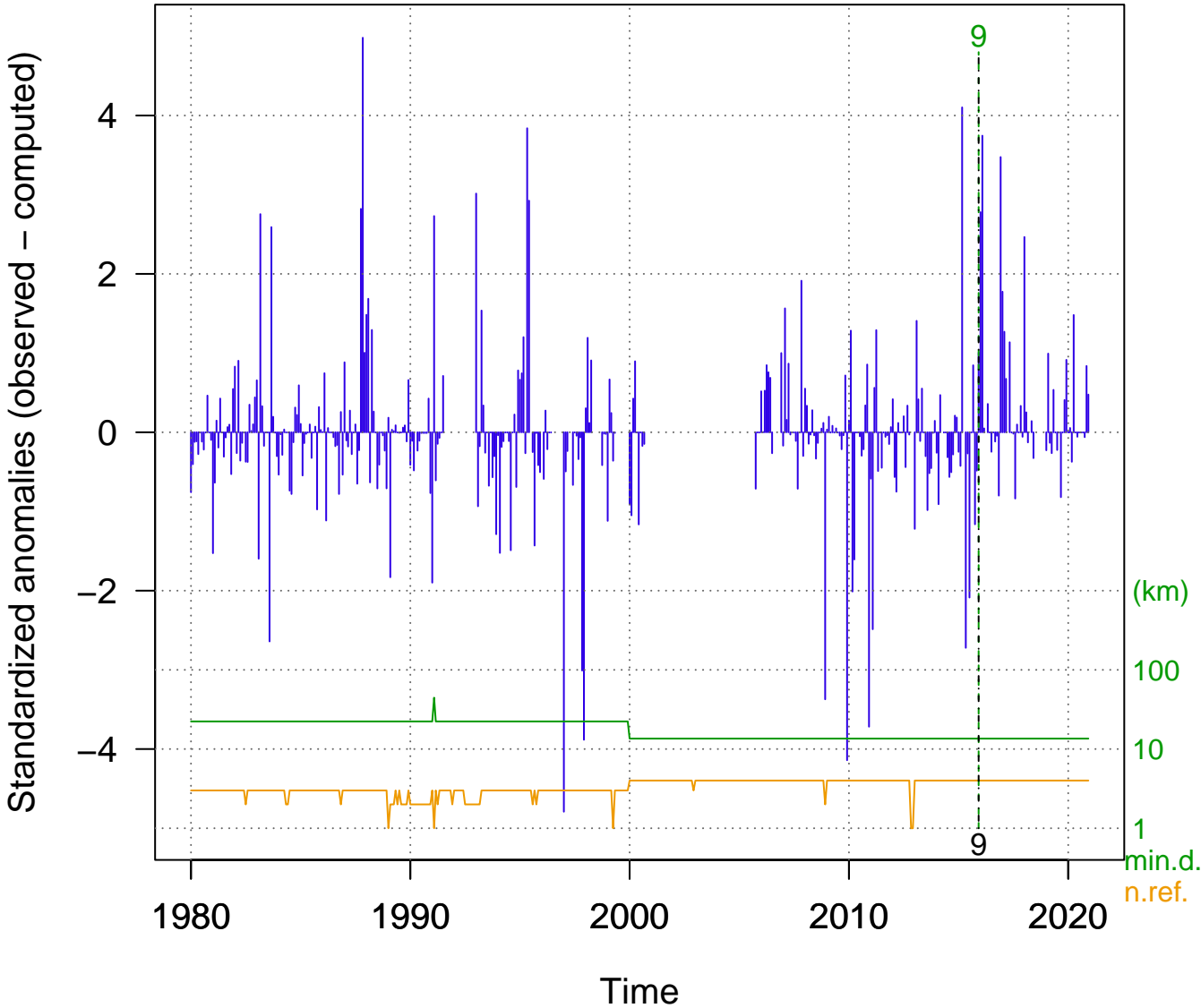
precipitacion 1 (2164)  
EJIDO\_EL\_PORVENIR



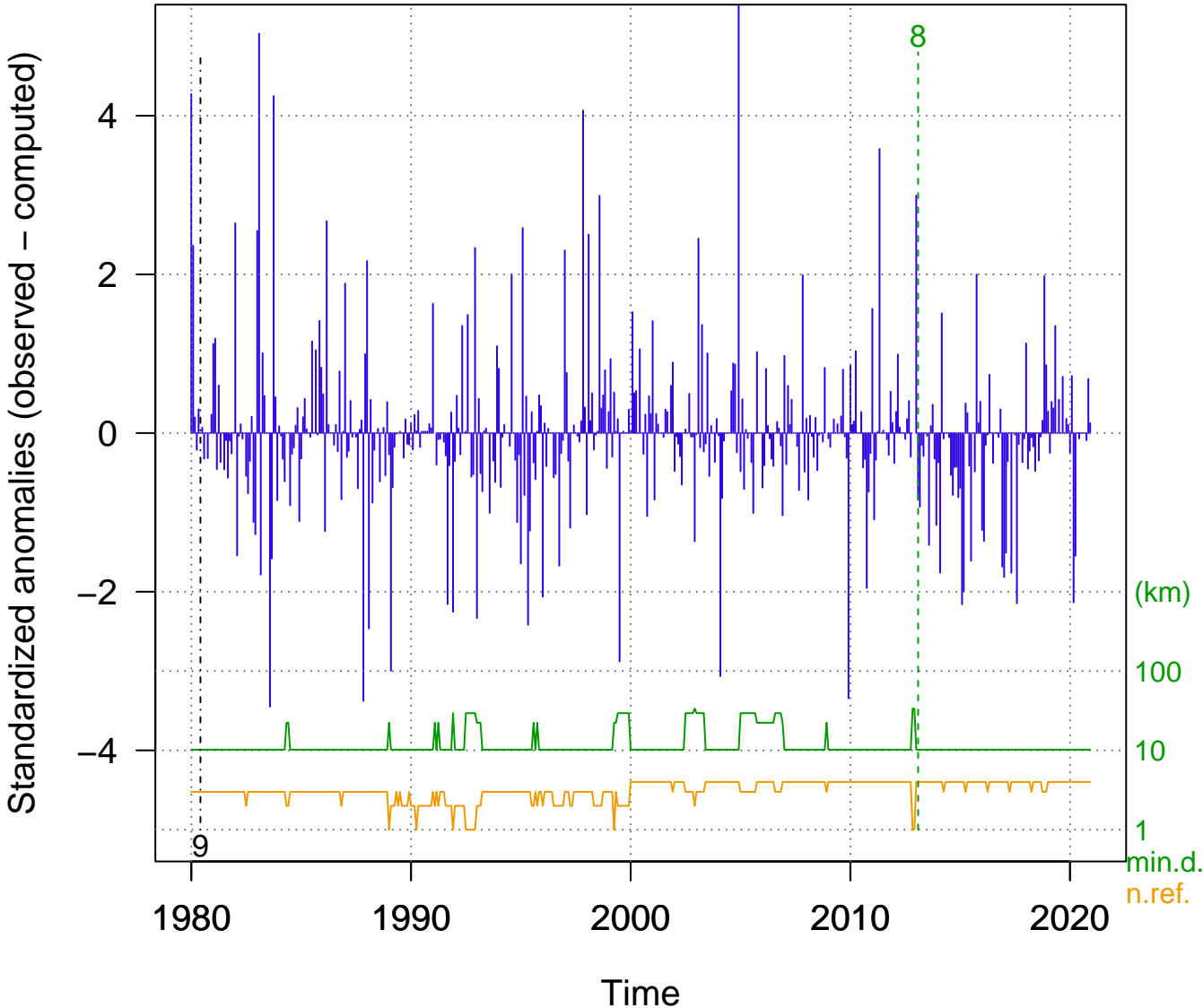
precipitacion 2 (2118)  
VALLE\_DE\_SAN\_RAFAEL



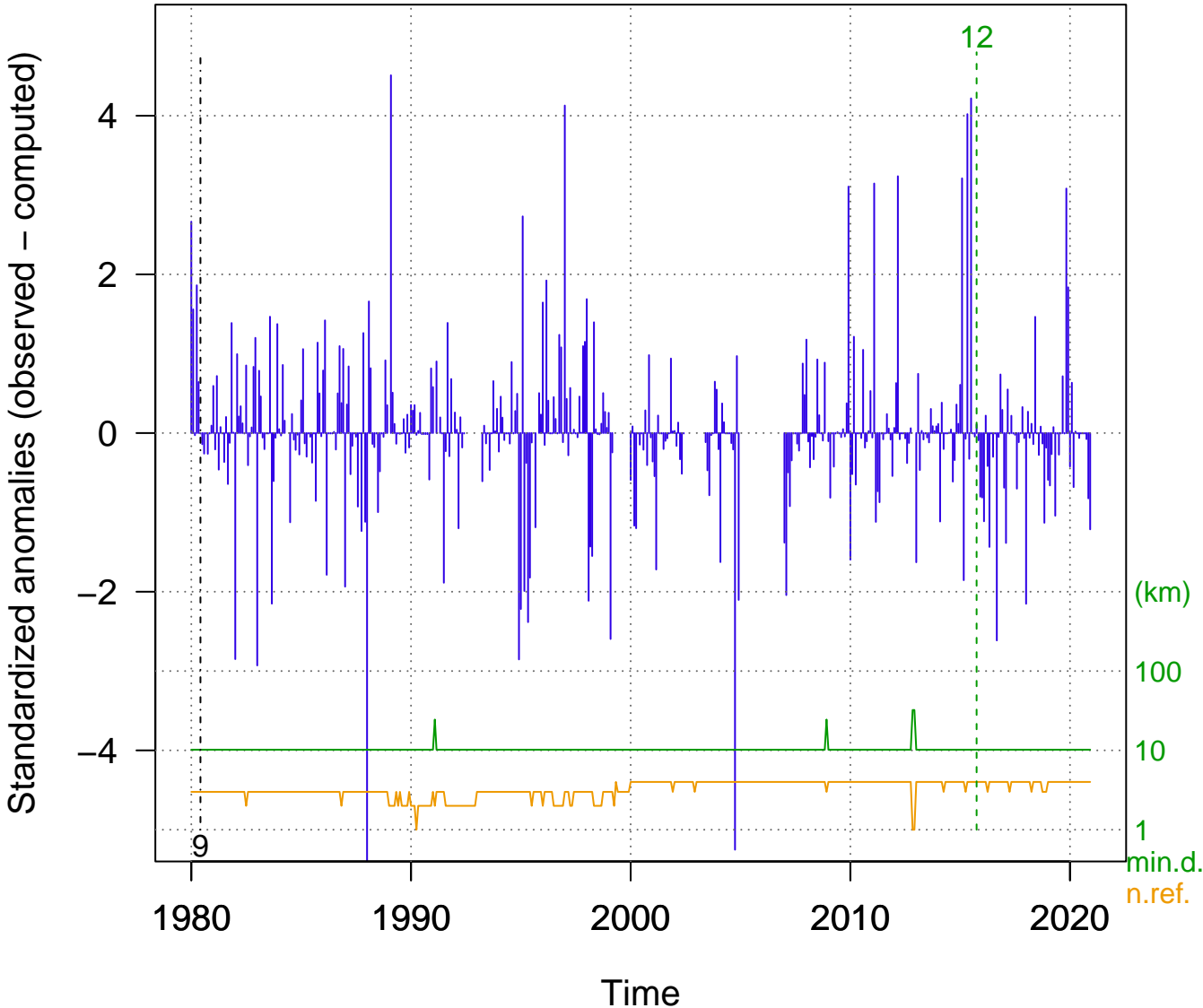
# precipitacion 3 (2036) OLIVARES\_MEXICANOS



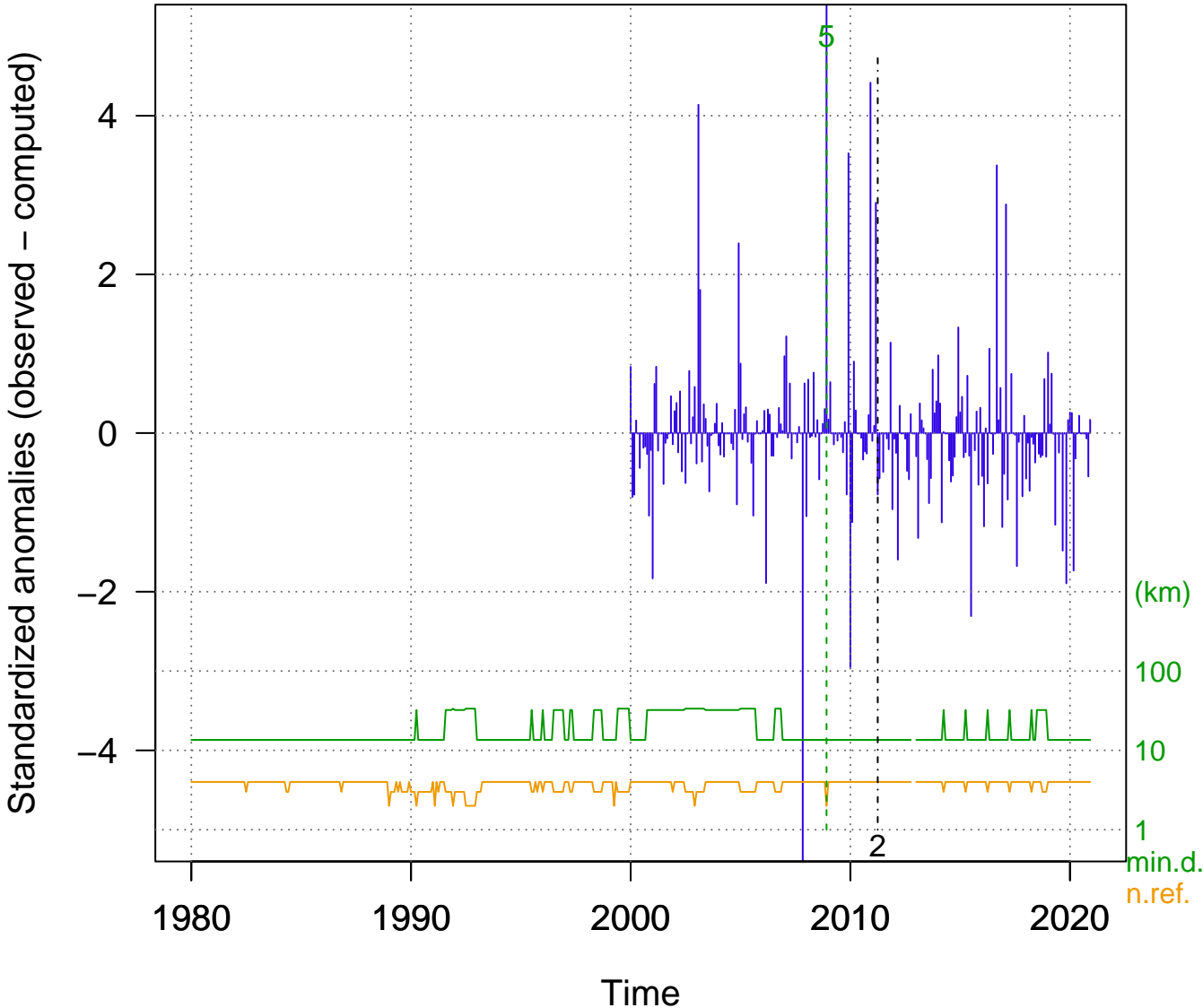
# precipitacion 4 (2001) AGUACALIENTE



precipitacion 5 (2004)  
IGNACIO\_ZARAGOZA\_BELEN



# precipitacion 6 (2077) LA\_MISION

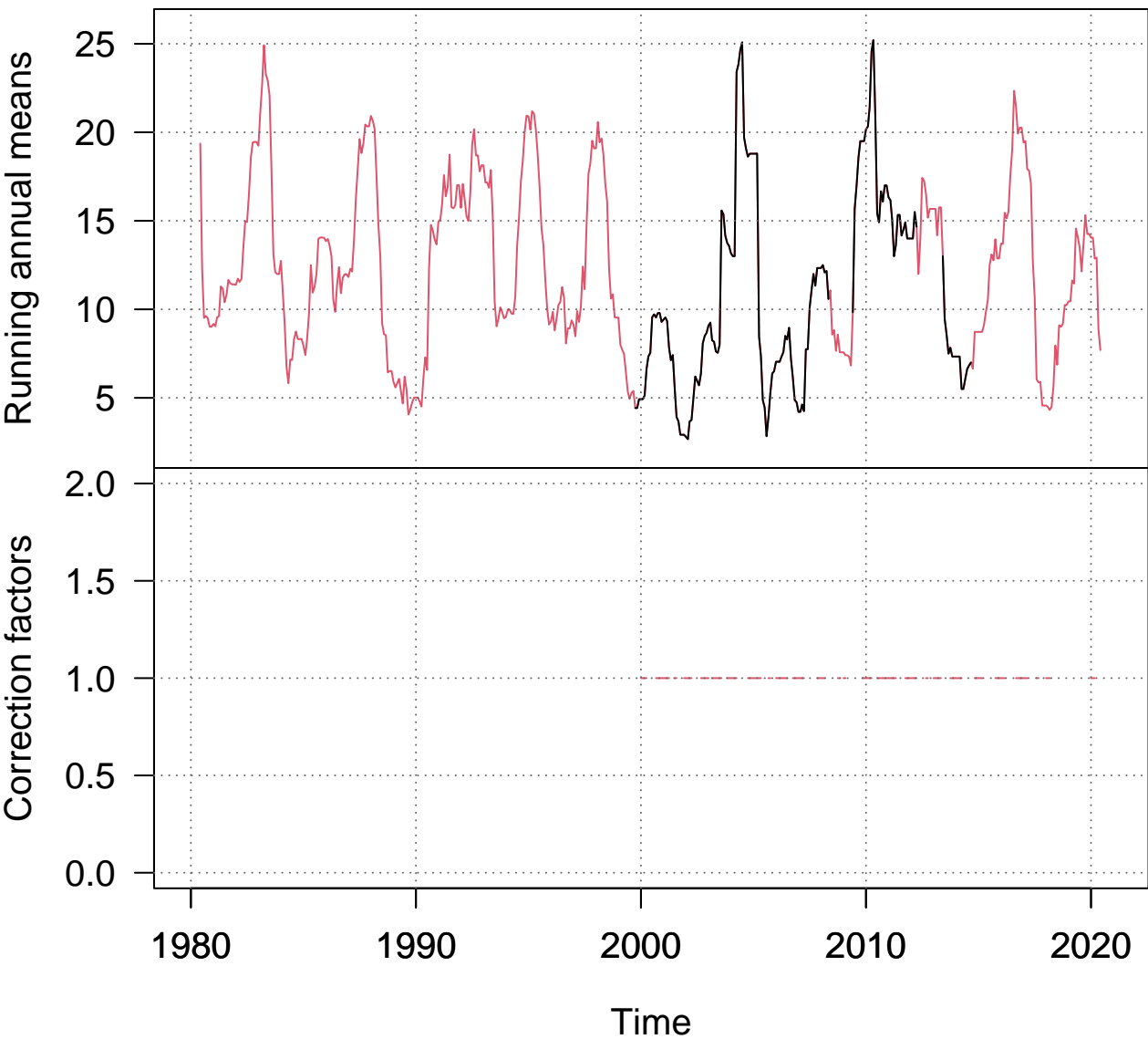


# Final graphics

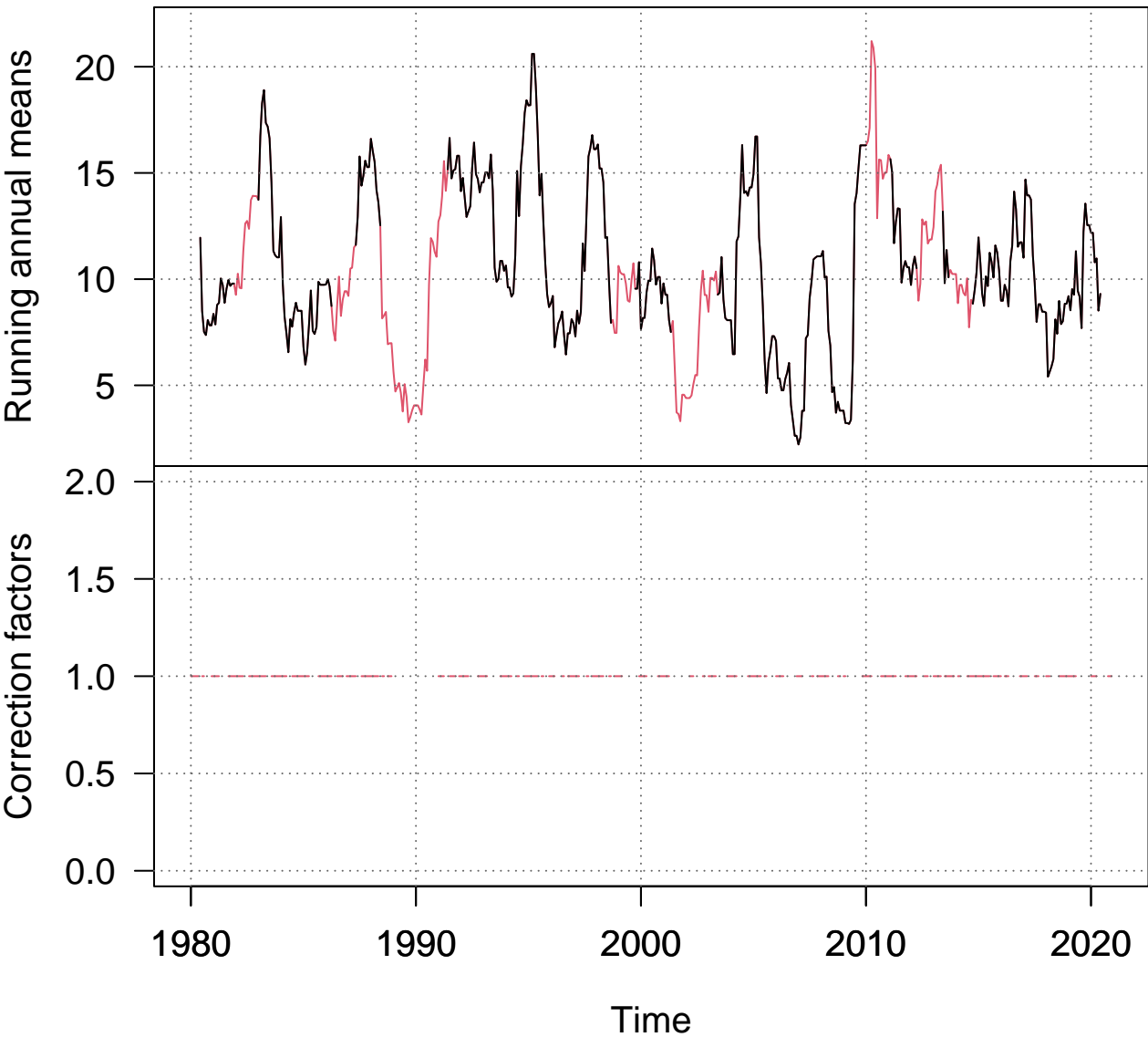
Adjusted series and  
applied corrections



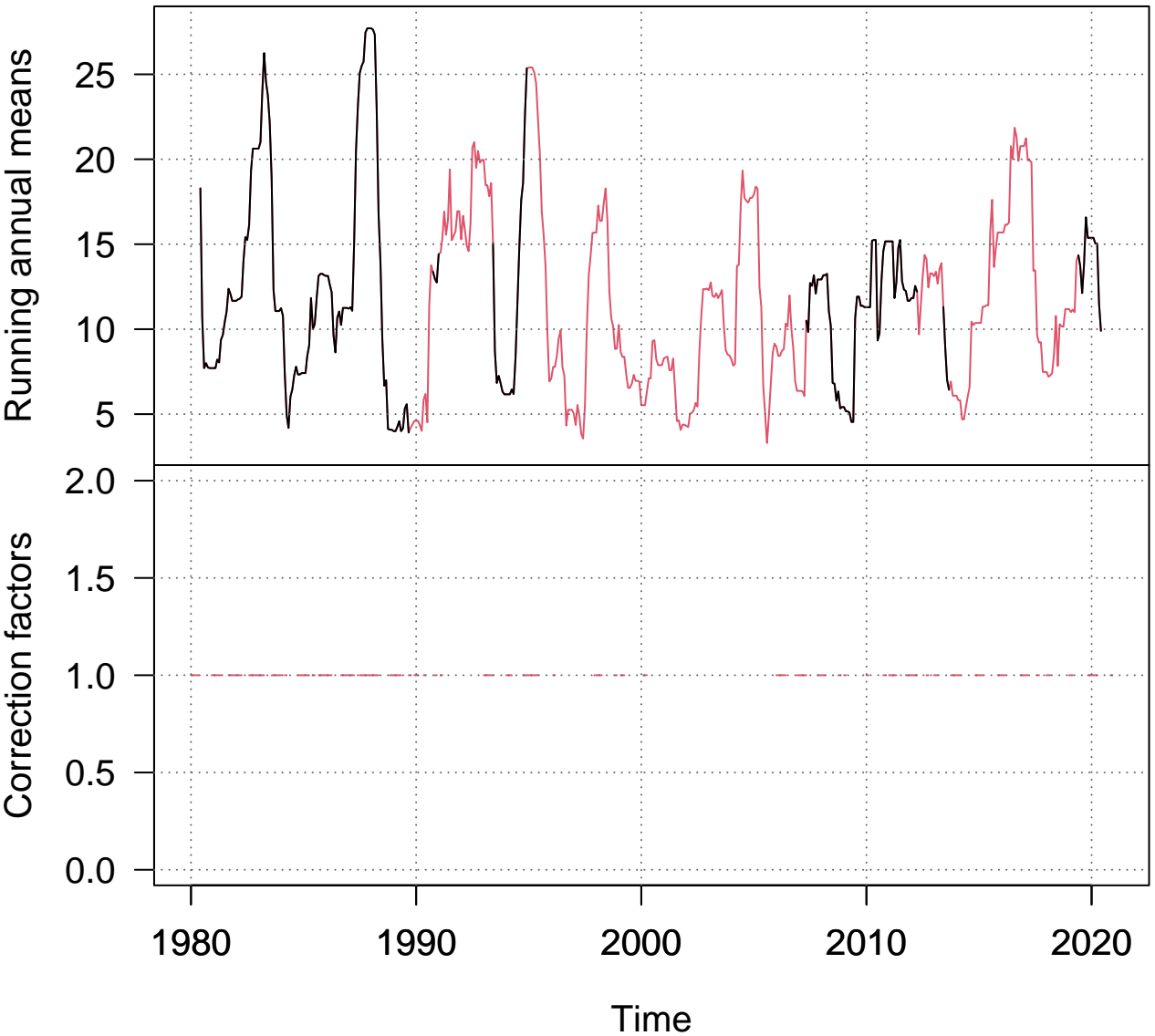
**precipitacion 1 (2164)**  
**EJIDO\_EL\_PORVENIR**



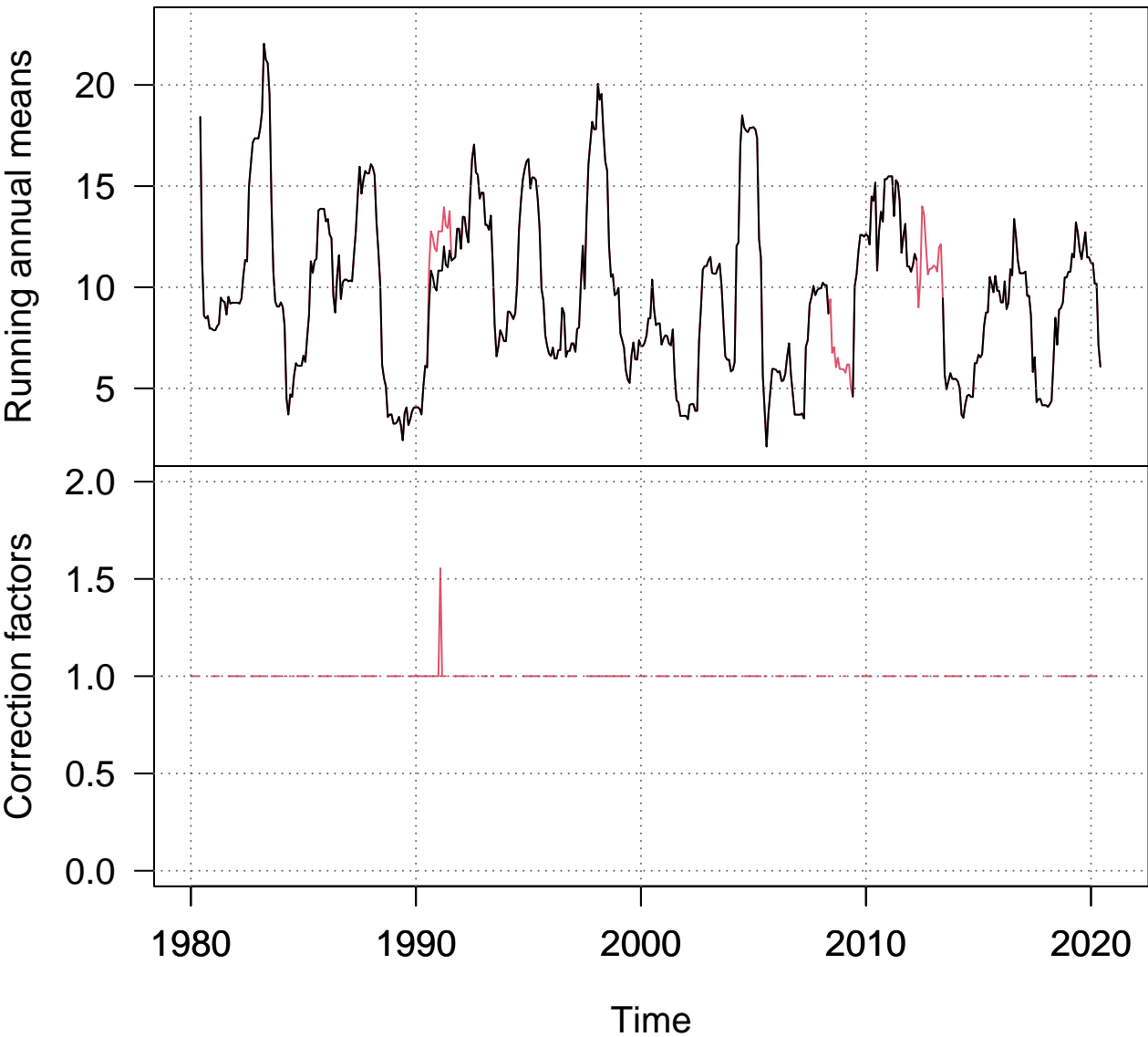
**precipitacion 2 (2118)**  
**VALLE\_DE\_SAN\_RAFAEL**



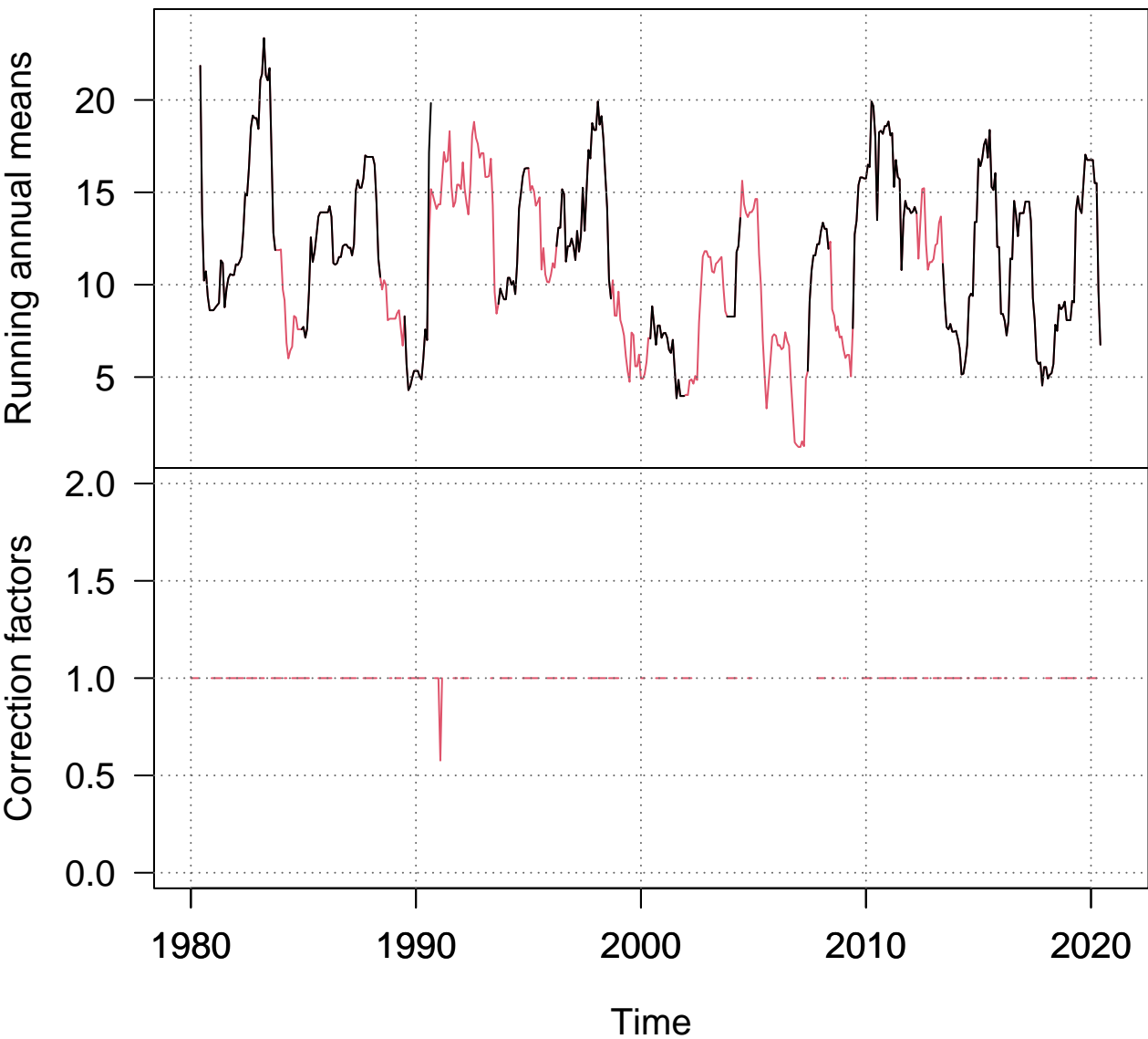
# precipitacion 3 (2036) OLIVARES\_MEXICANOS



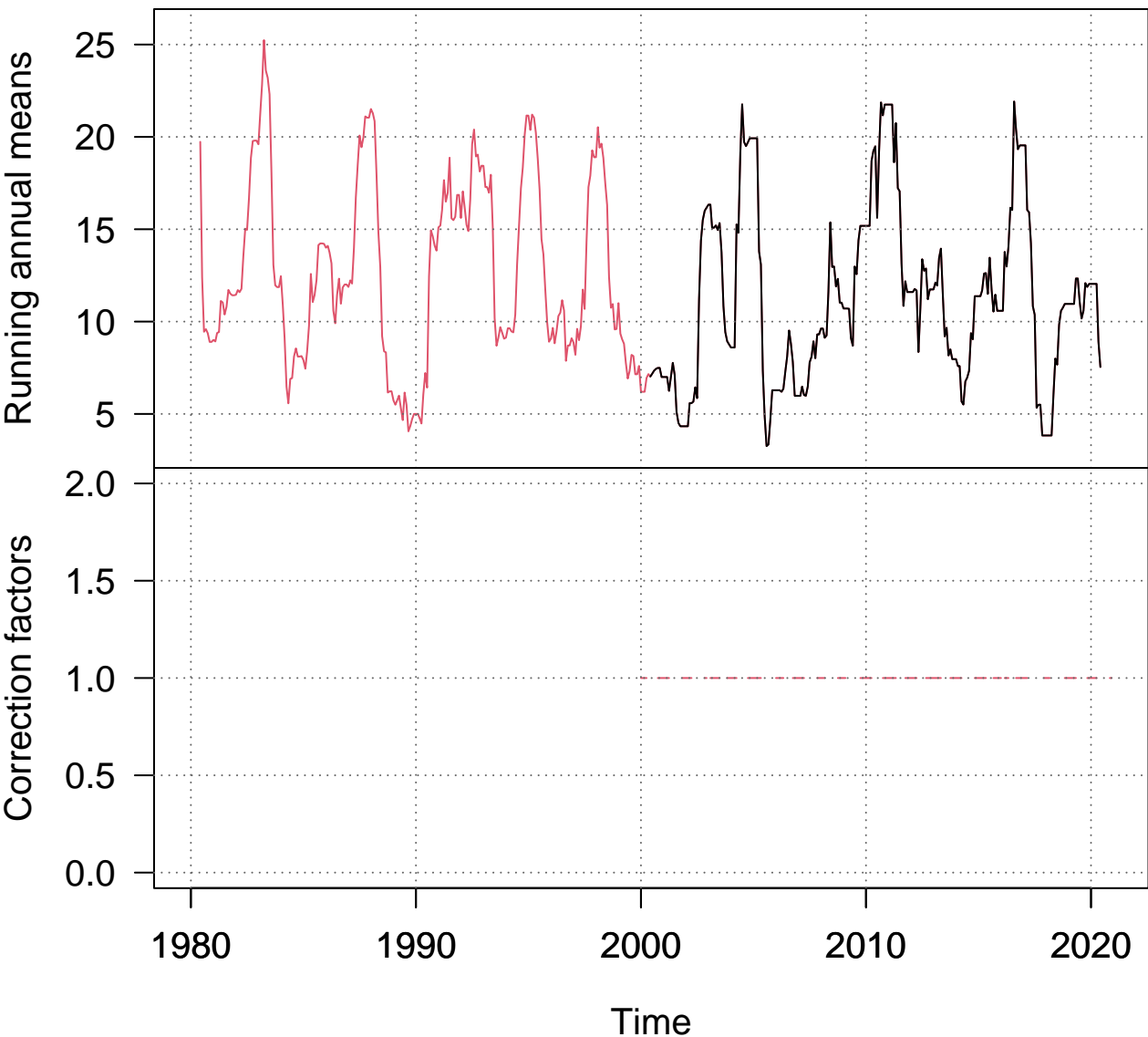
# precipitacion 4 (2001) AGUACALIENTE



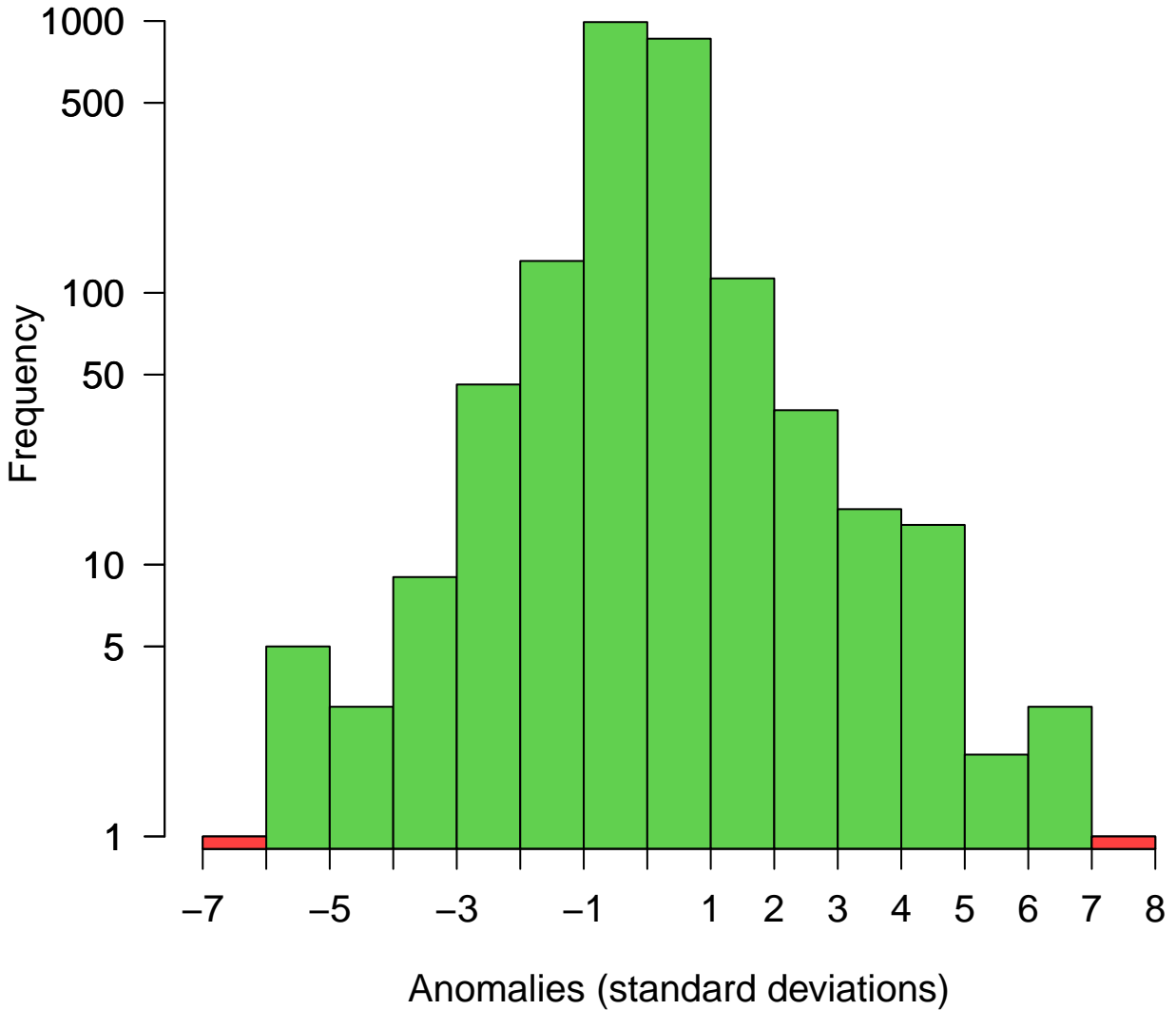
**precipitacion 5 (2004)**  
**IGNACIO\_ZARAGOZA\_BELEN**



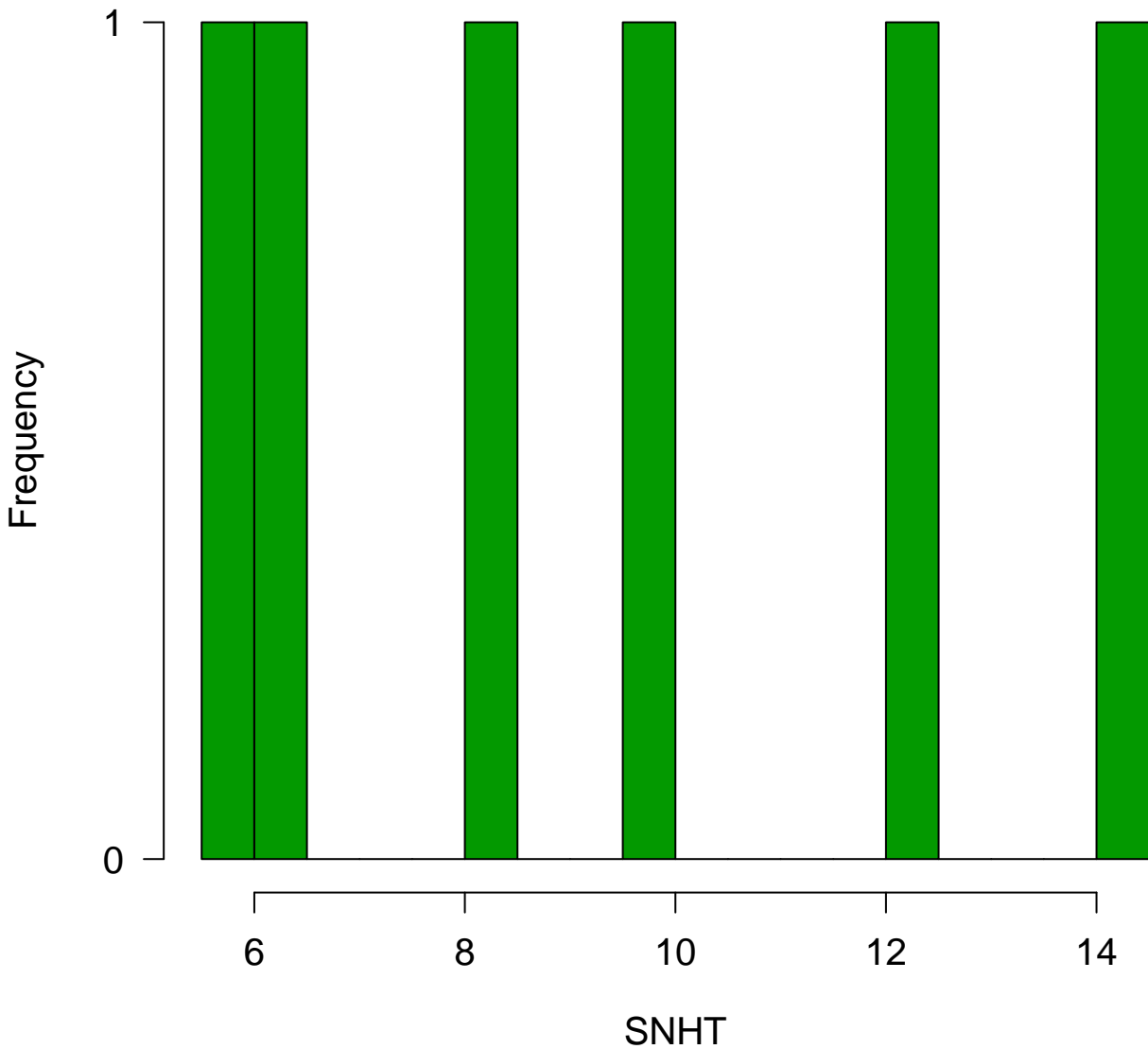
**precipitacion 6 (2077)**  
**LA\_MISION**



# Histogram of standardized anomalies

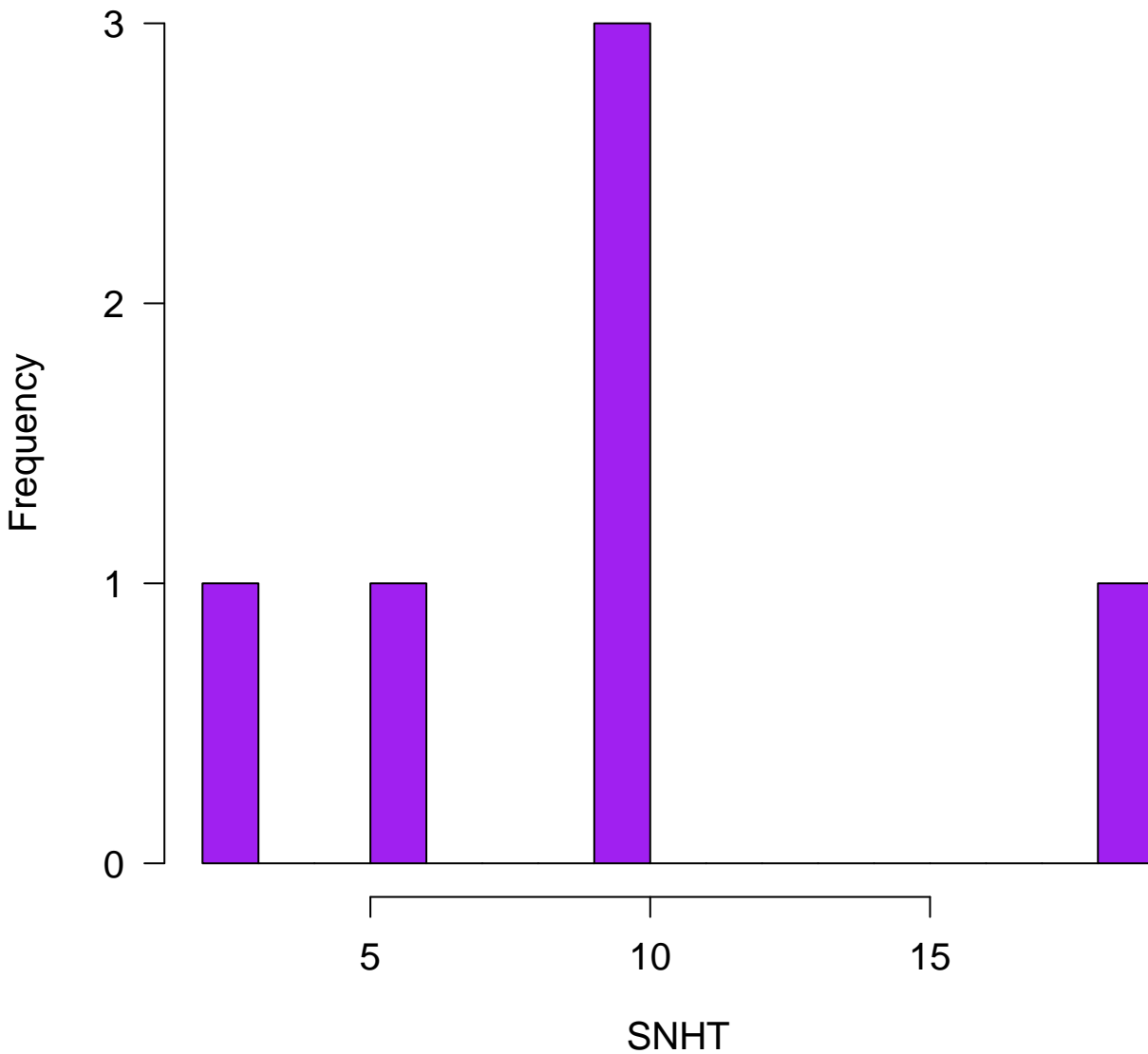


Histogram of maximum windowed SNHT





**Histogram of maximum global SNHT**



## Station's quality/singularity

