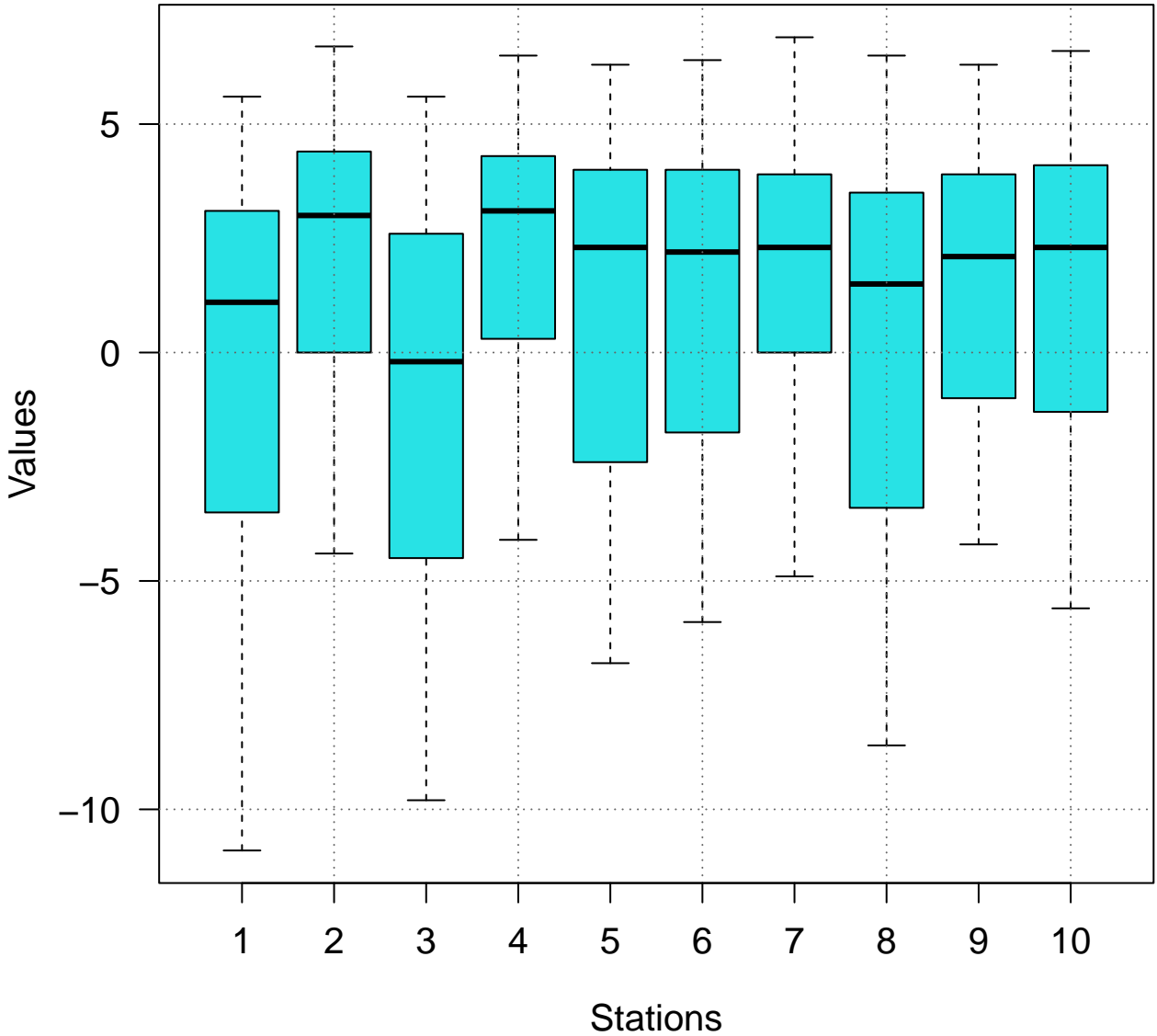


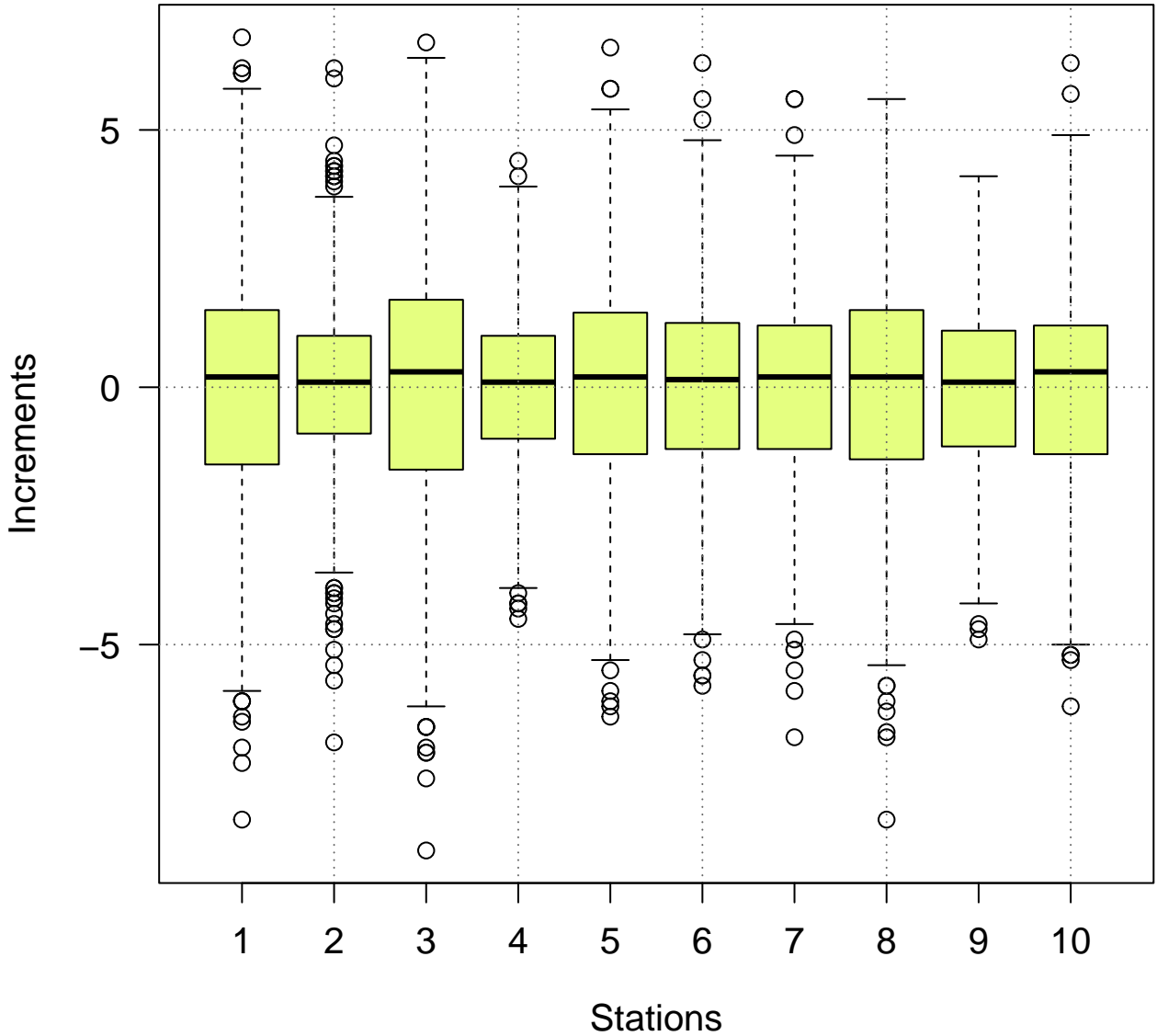
# CLIMATOL 4.0.0

Homogenization  
graphic output of  
tmin-m  
1965-2019

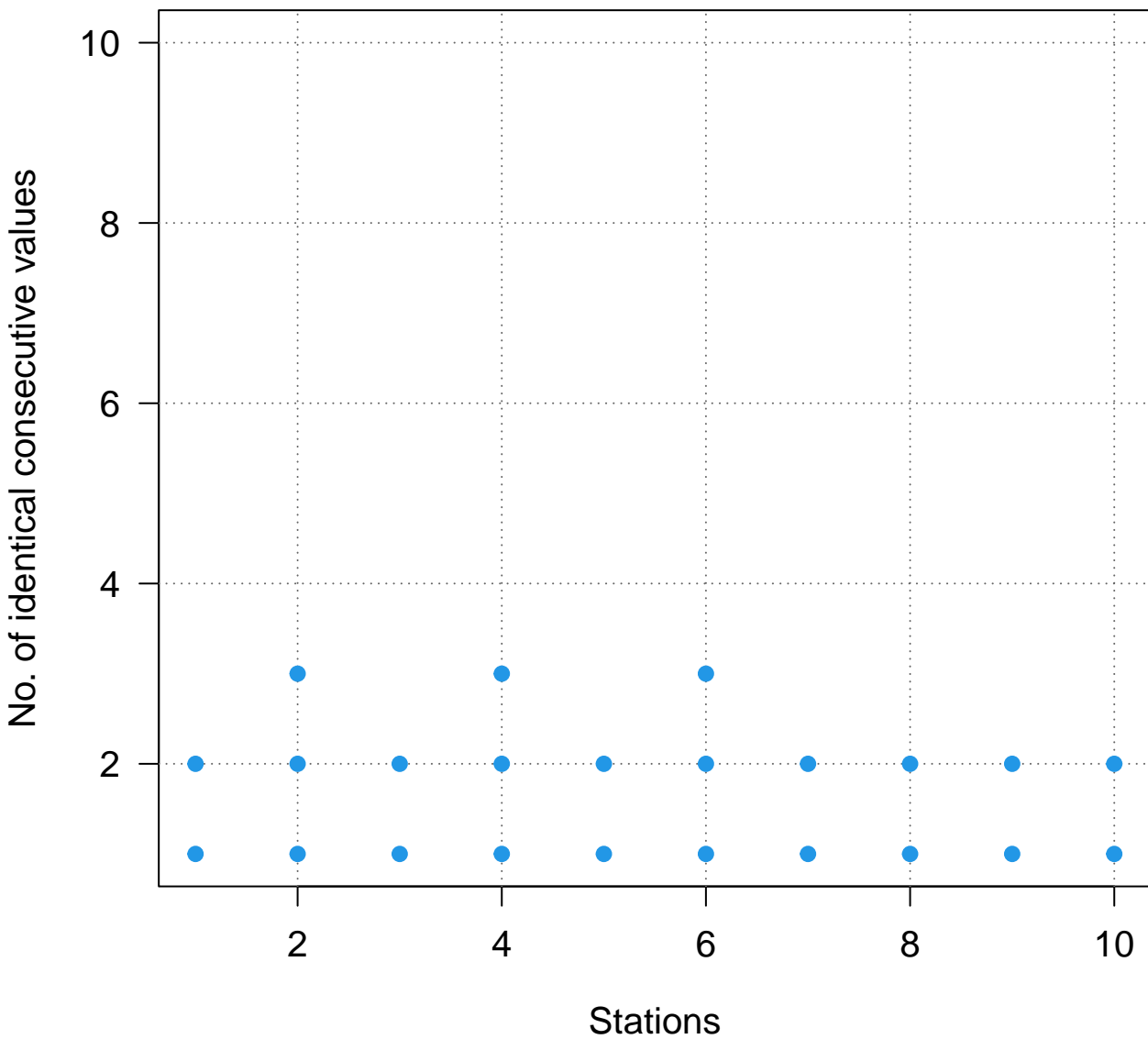
**tmin-m data**



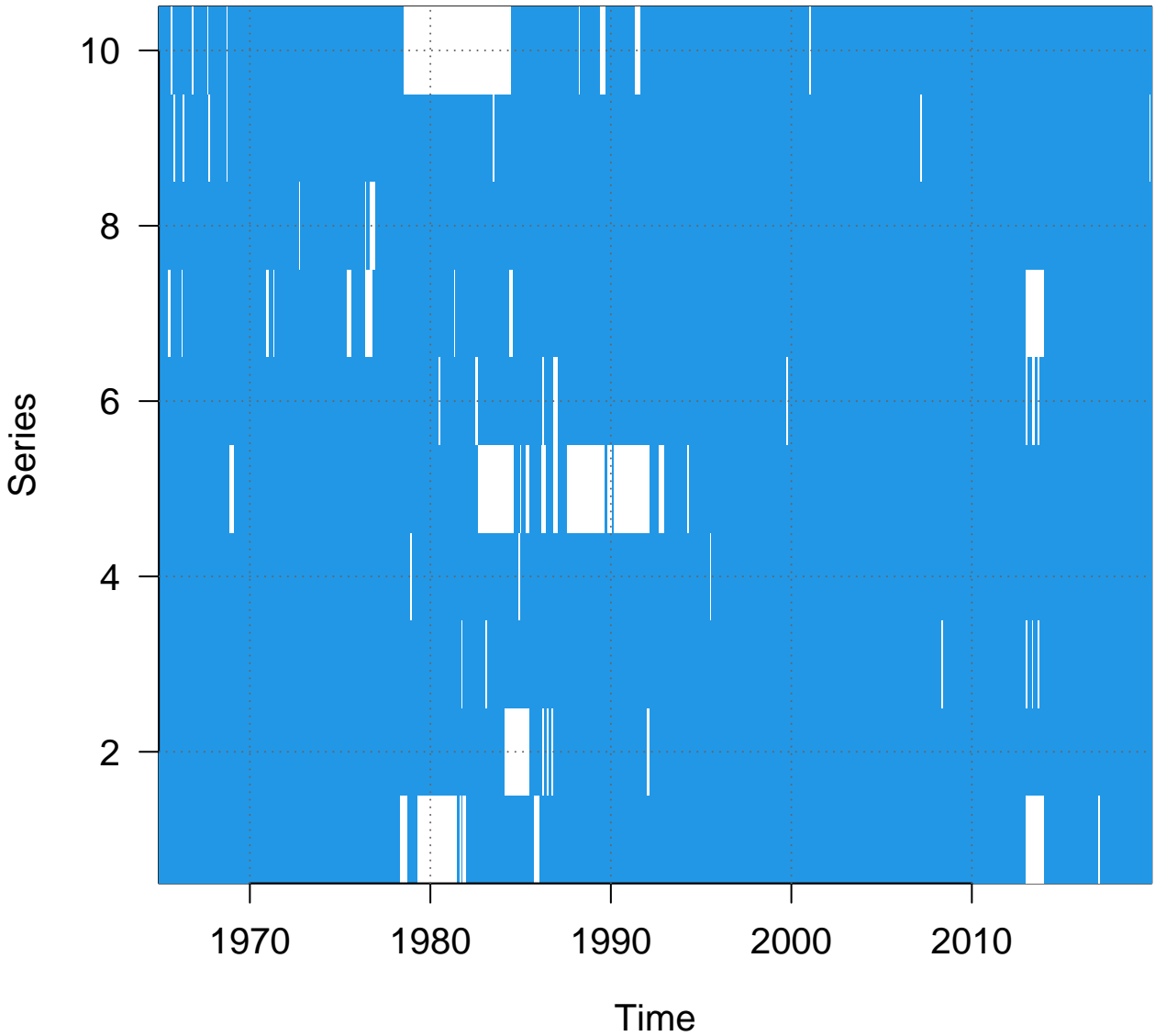
## tmin-m data increments



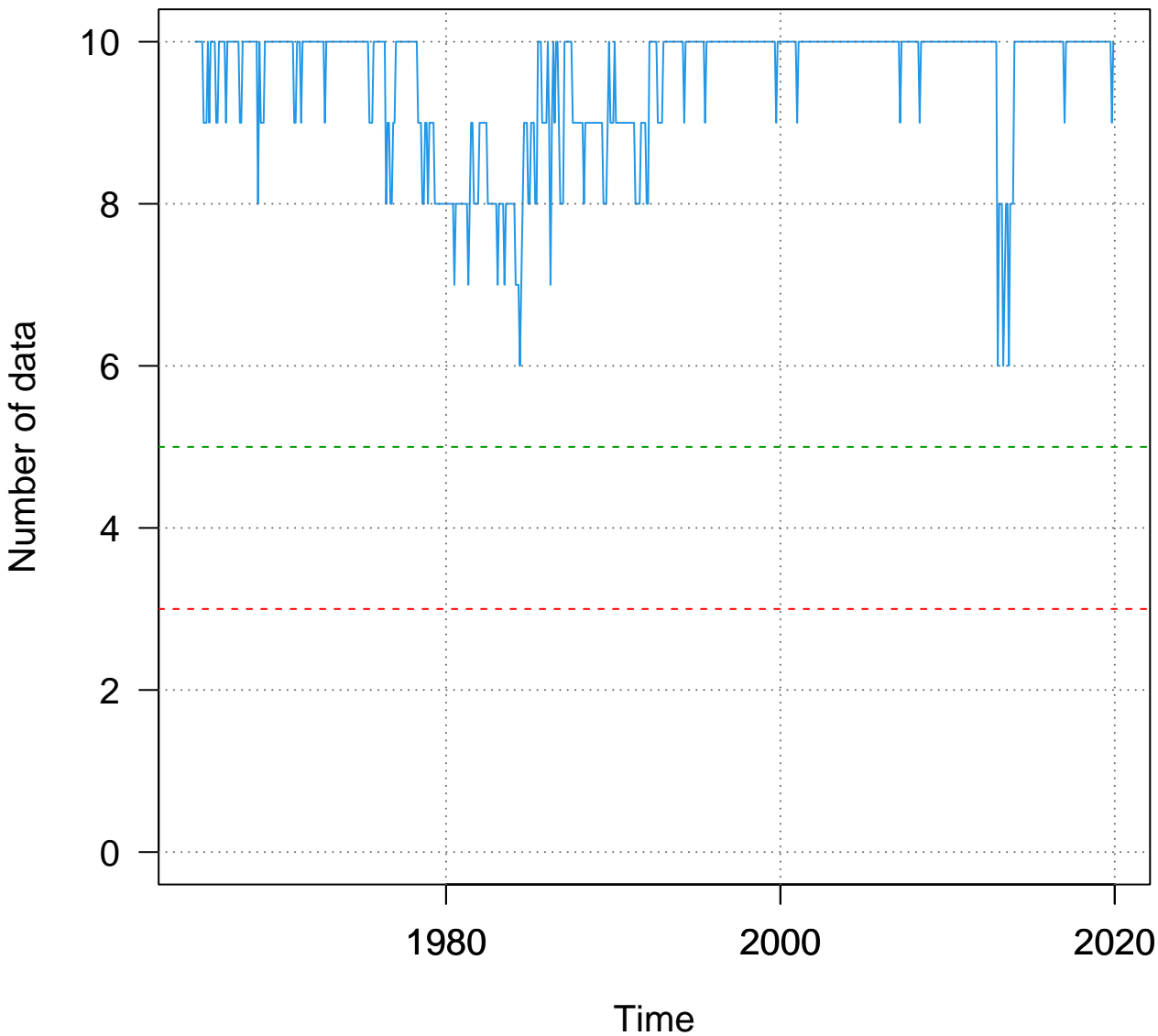
# tmin-m run lengths



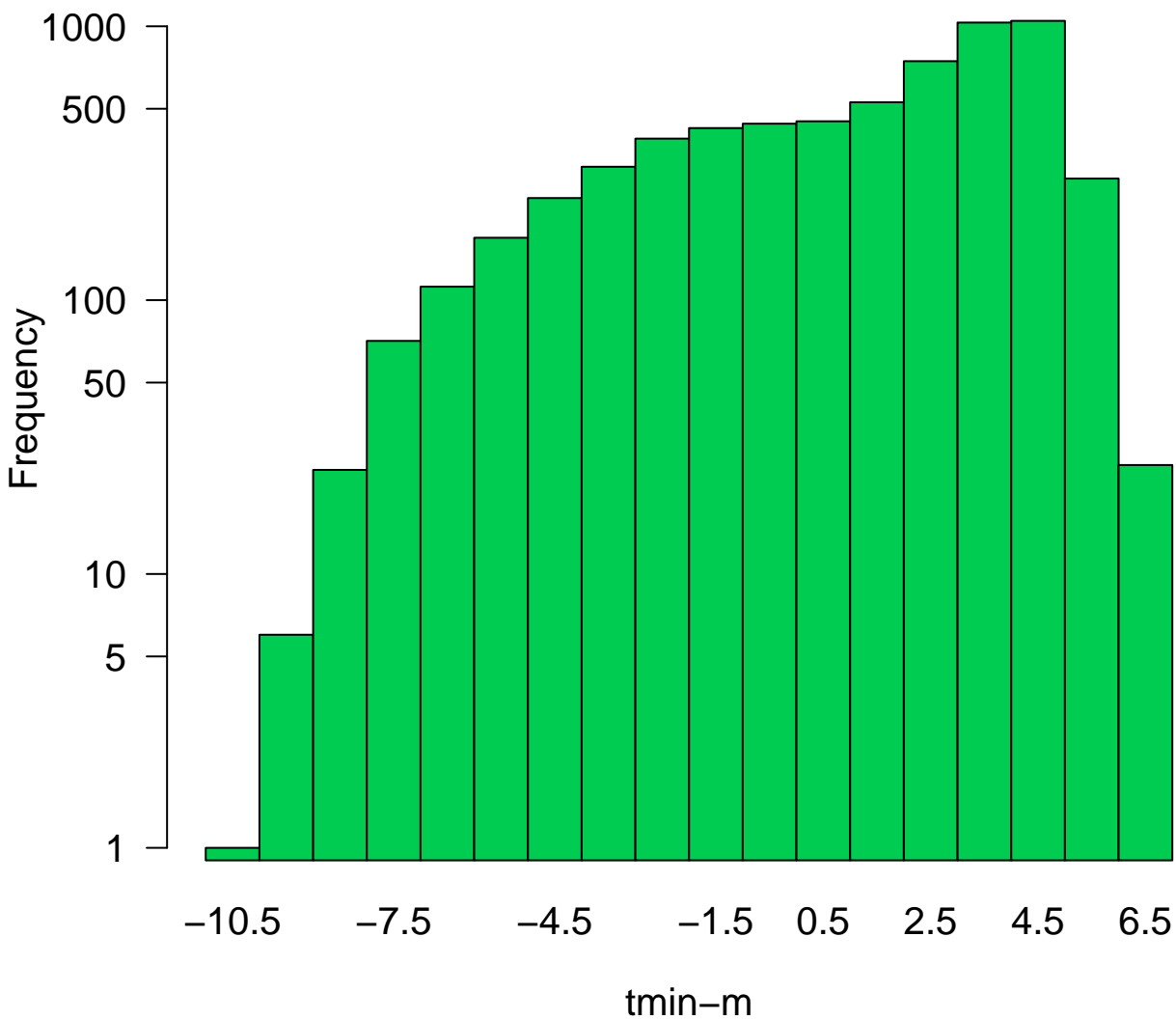
# tmin-m data availability



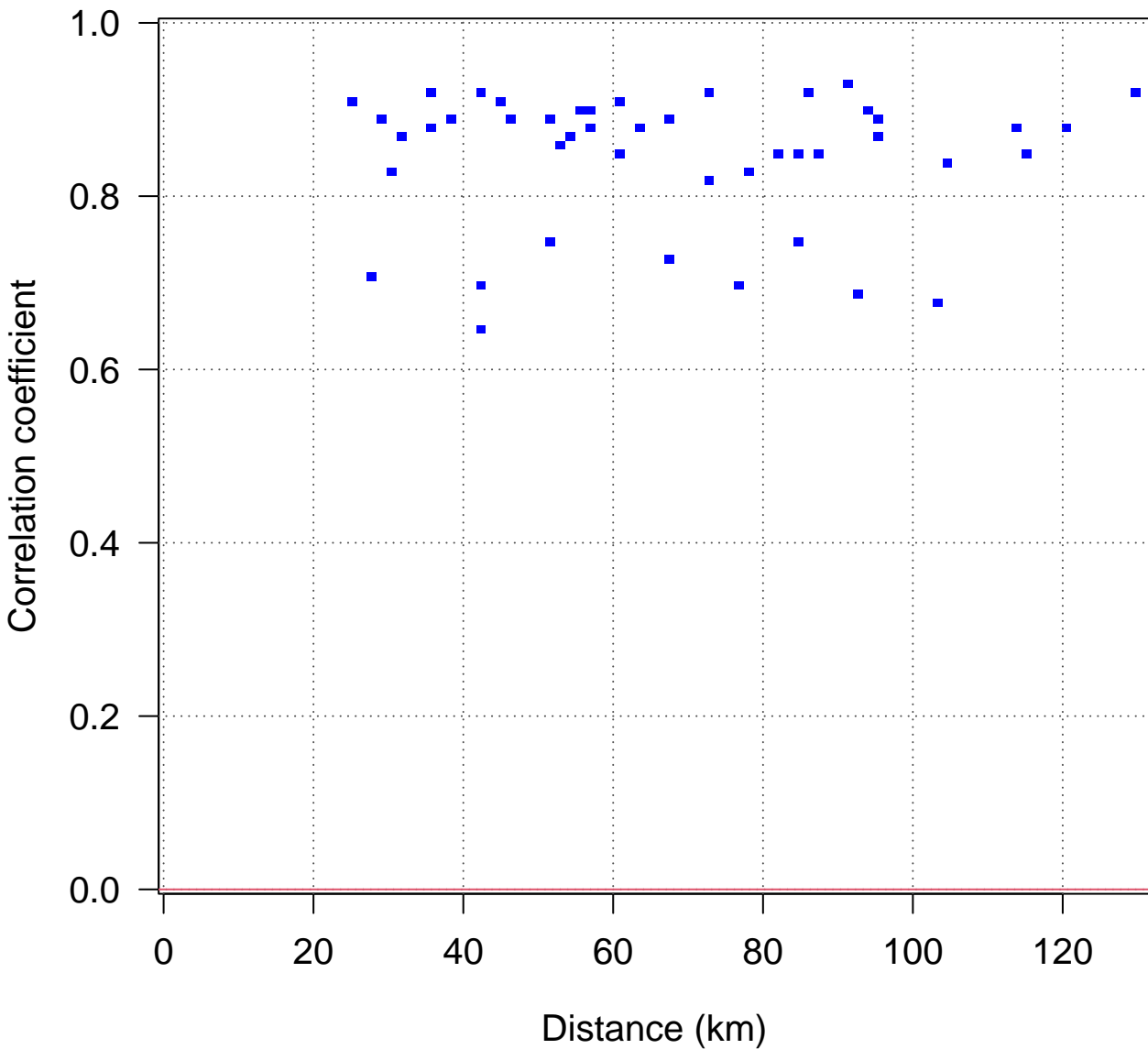
# Number of tmin-m data in all stations



**Histogram of all data**

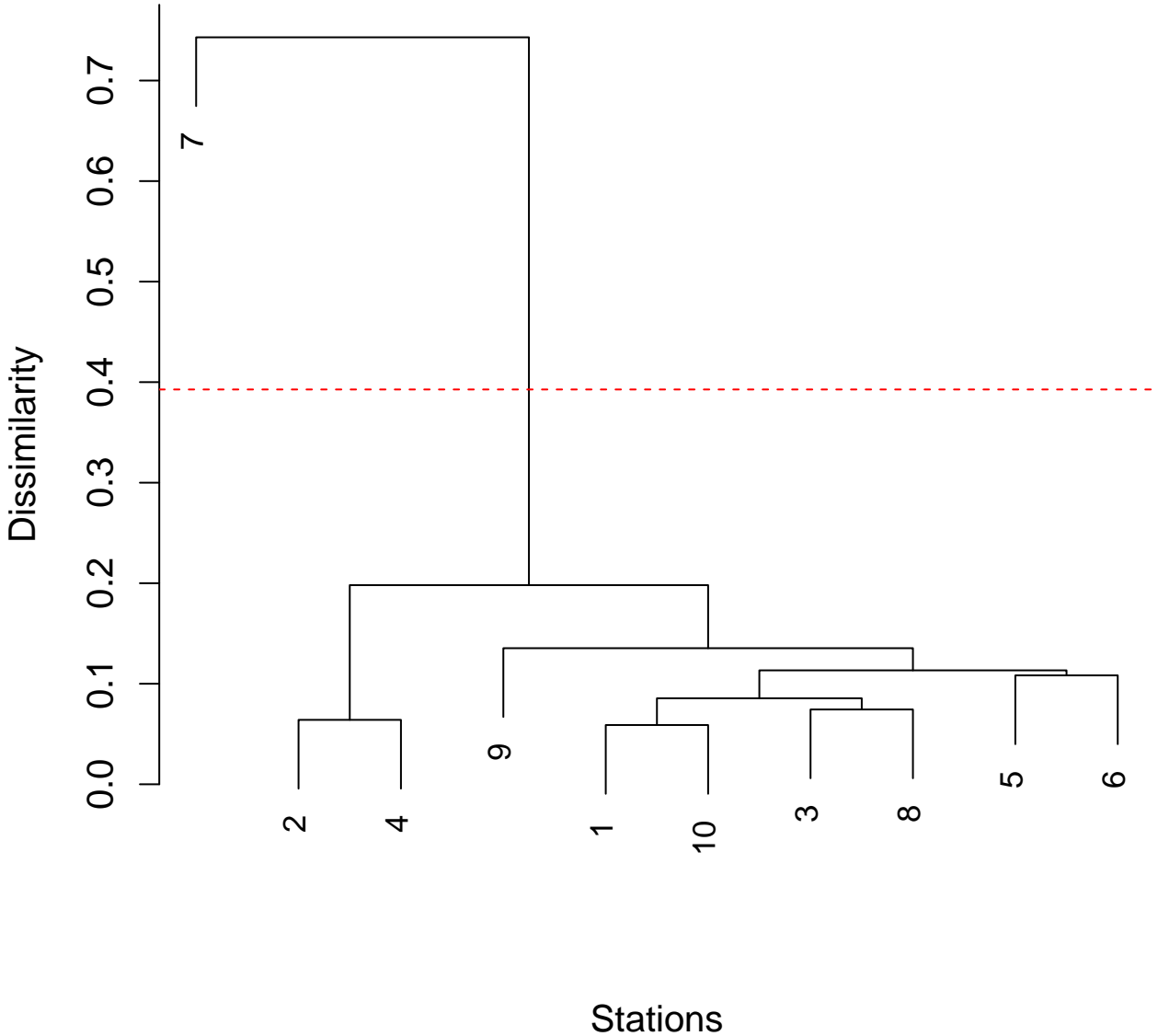


**Correlogram of first difference tmin-m series**

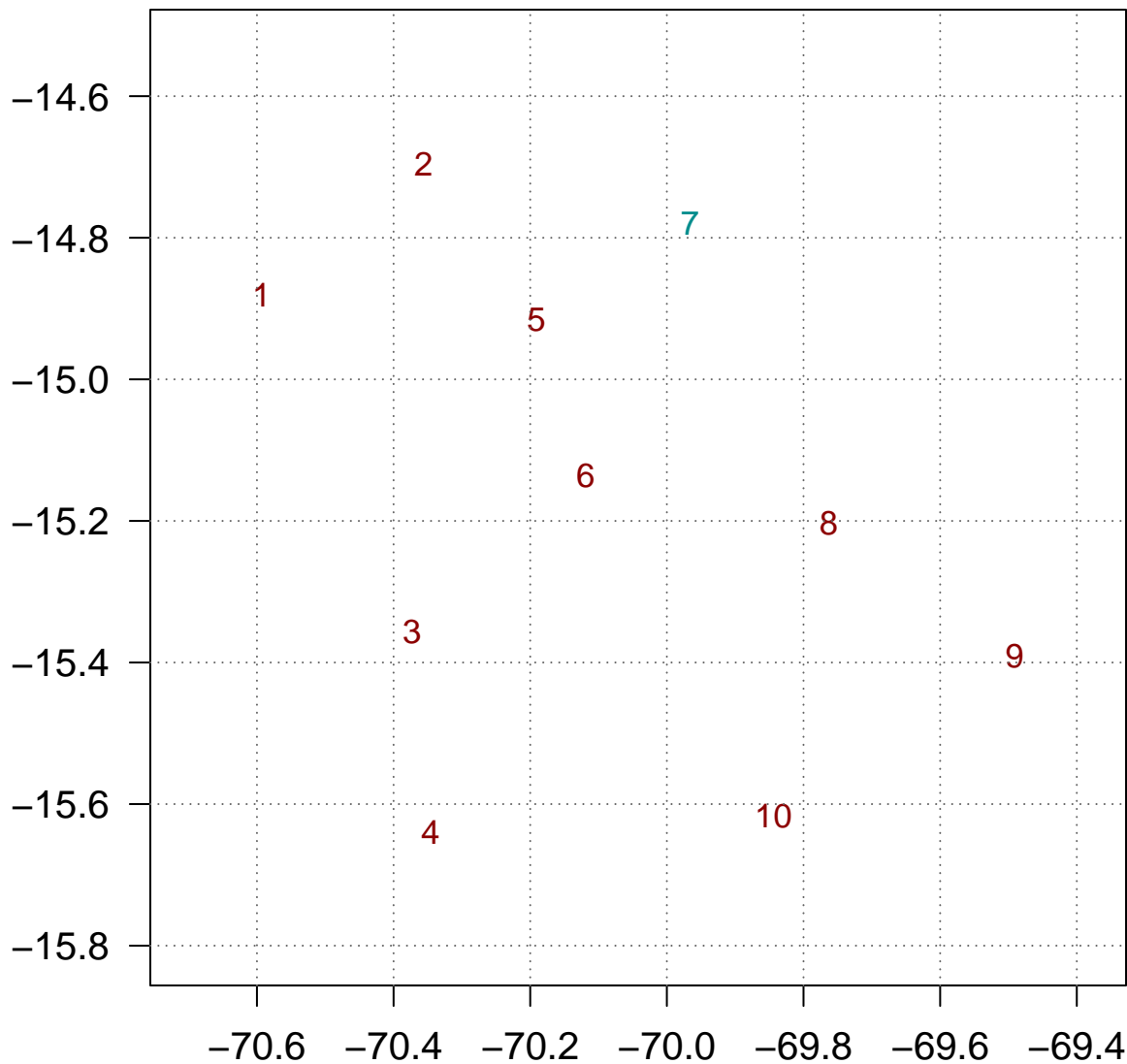




**Dendrogram of station clusters**



**tmin-m station locations (2 clusters)**

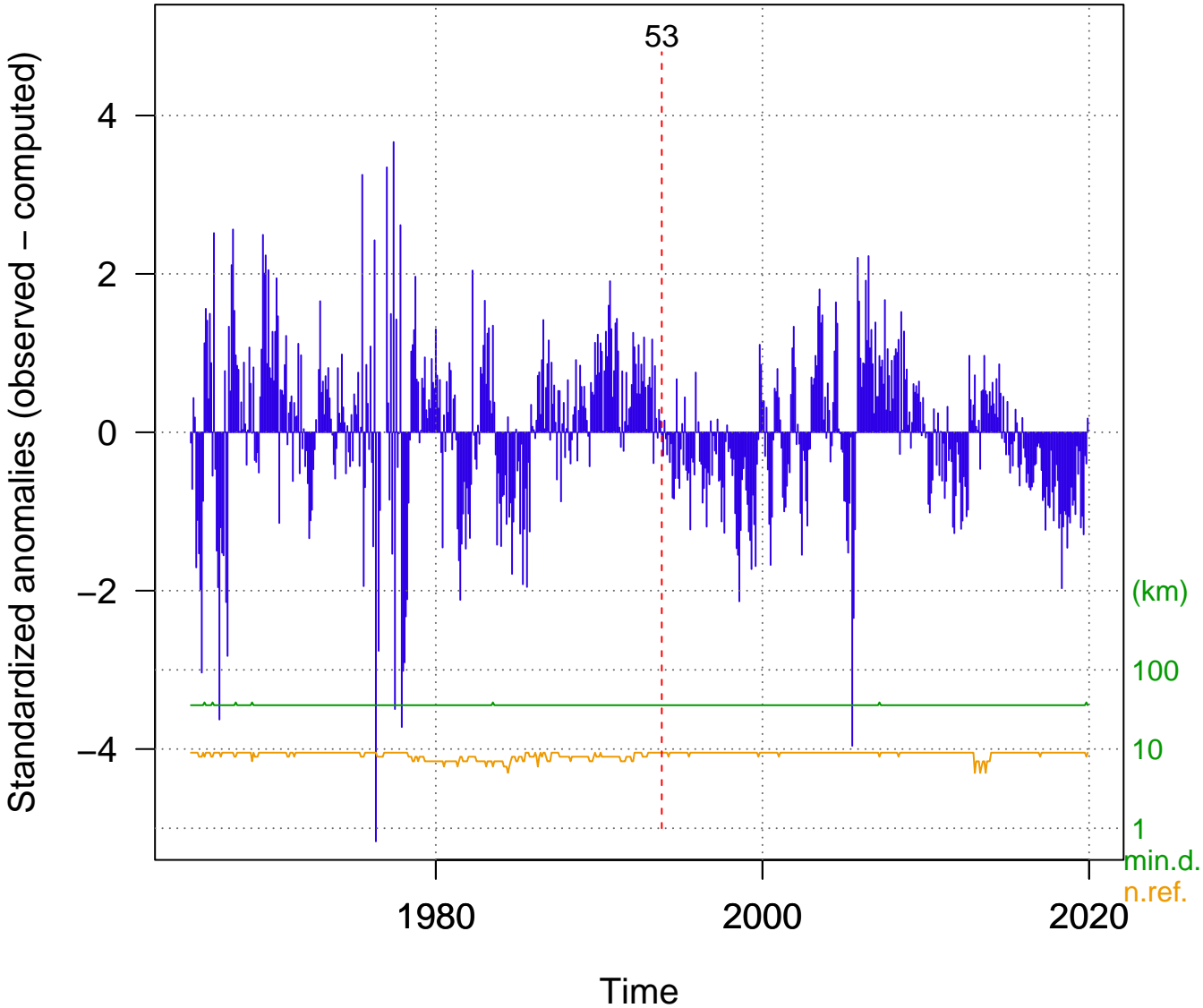


# Stage 1

Binary splits on 60 term  
stepped windows with  
std=3, SNHT>25  
and wd=0 km

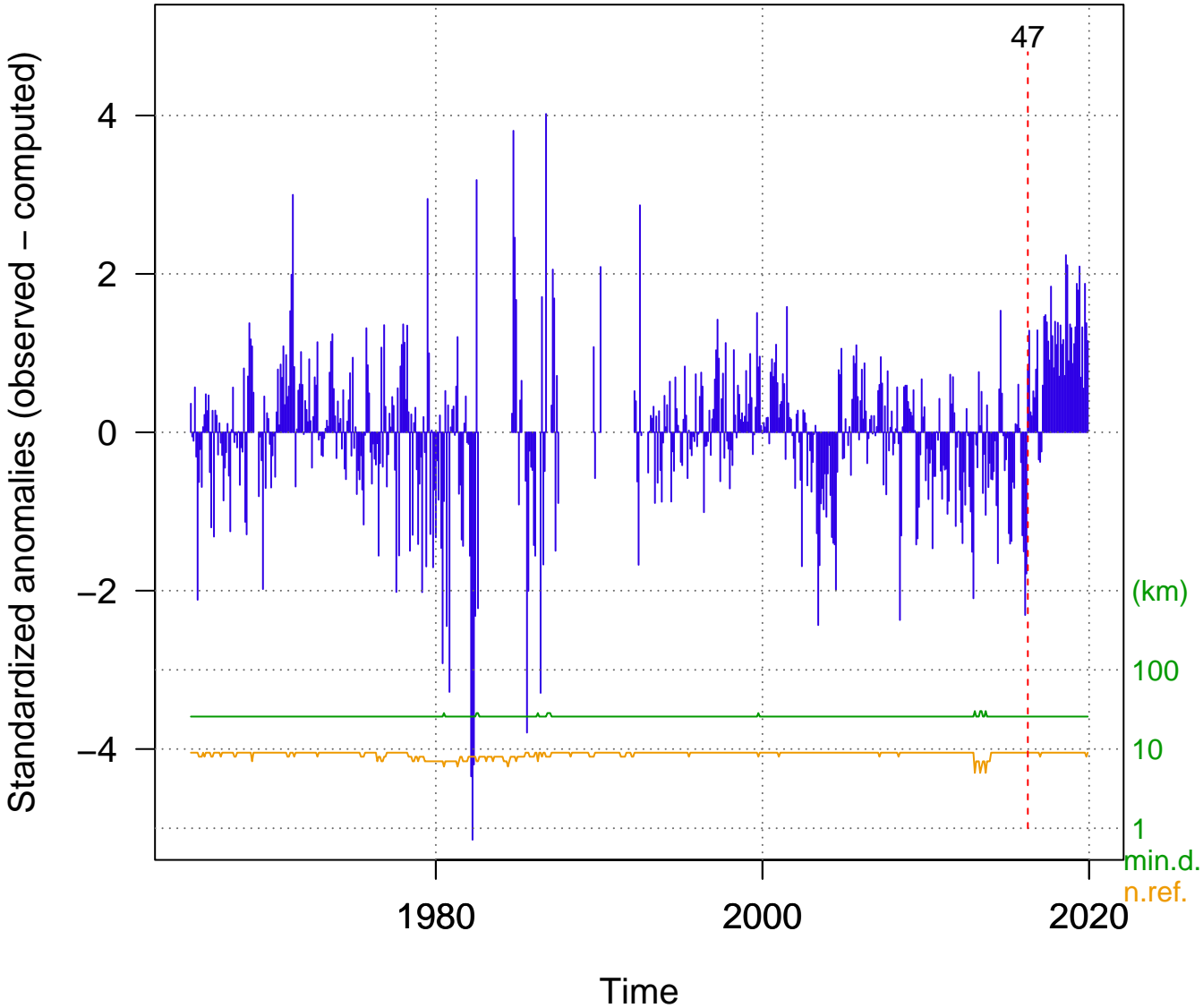
tmin-m 8 (ho00000786)

HUANCANE



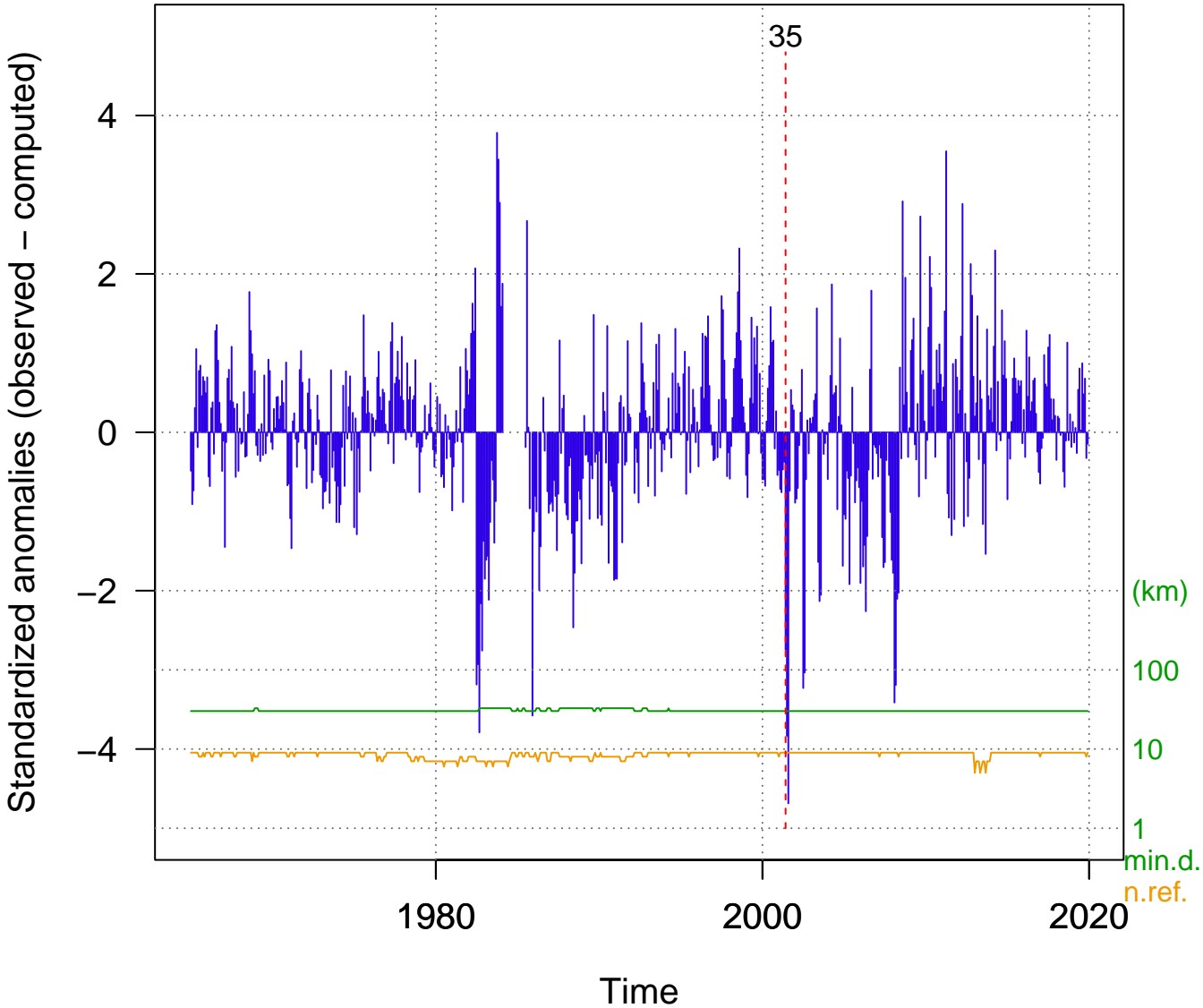
tmin-m 5 (ho00000781)

AZANGARO

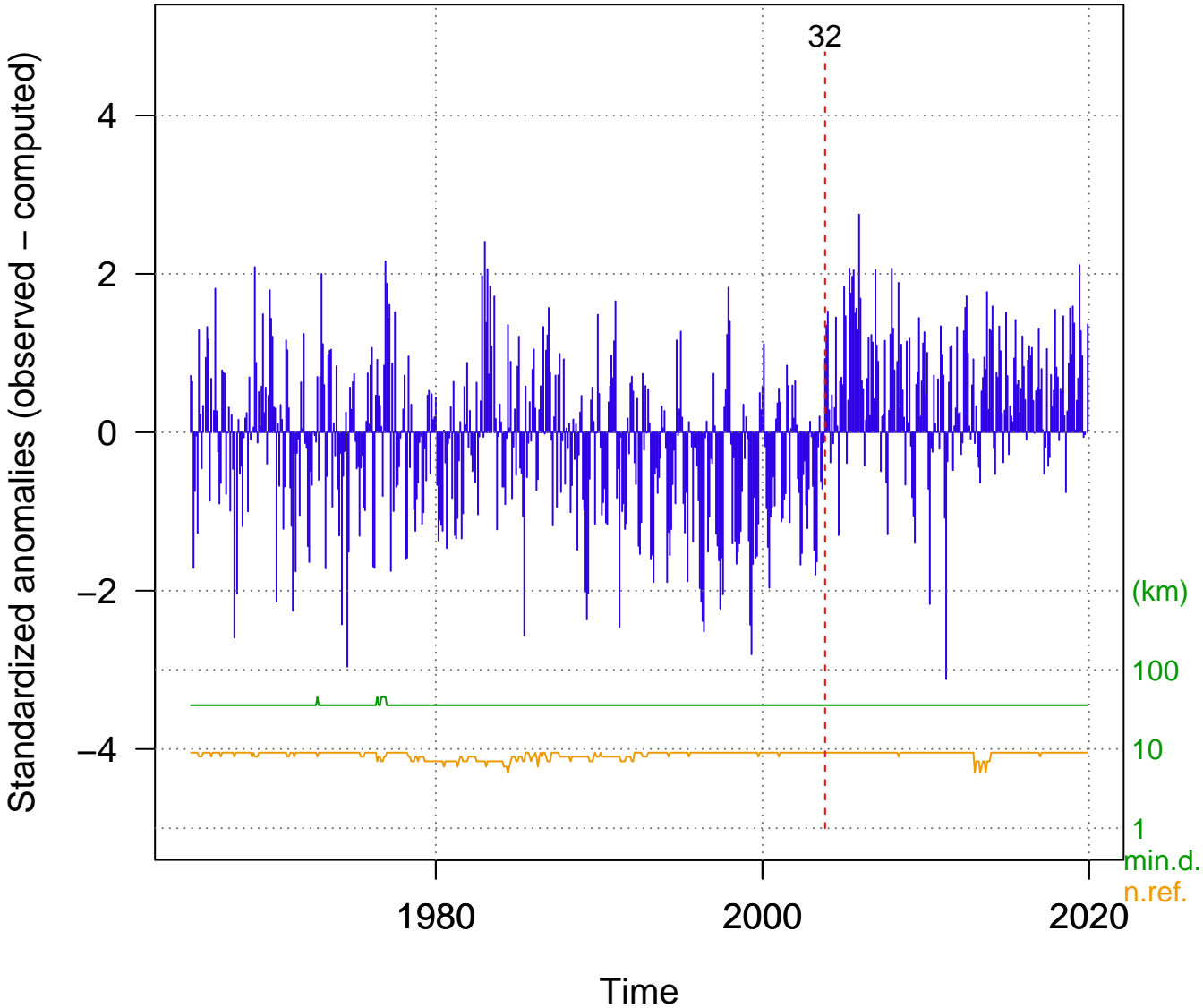


tmin-m 2 (ho00000778)

PROGRESO

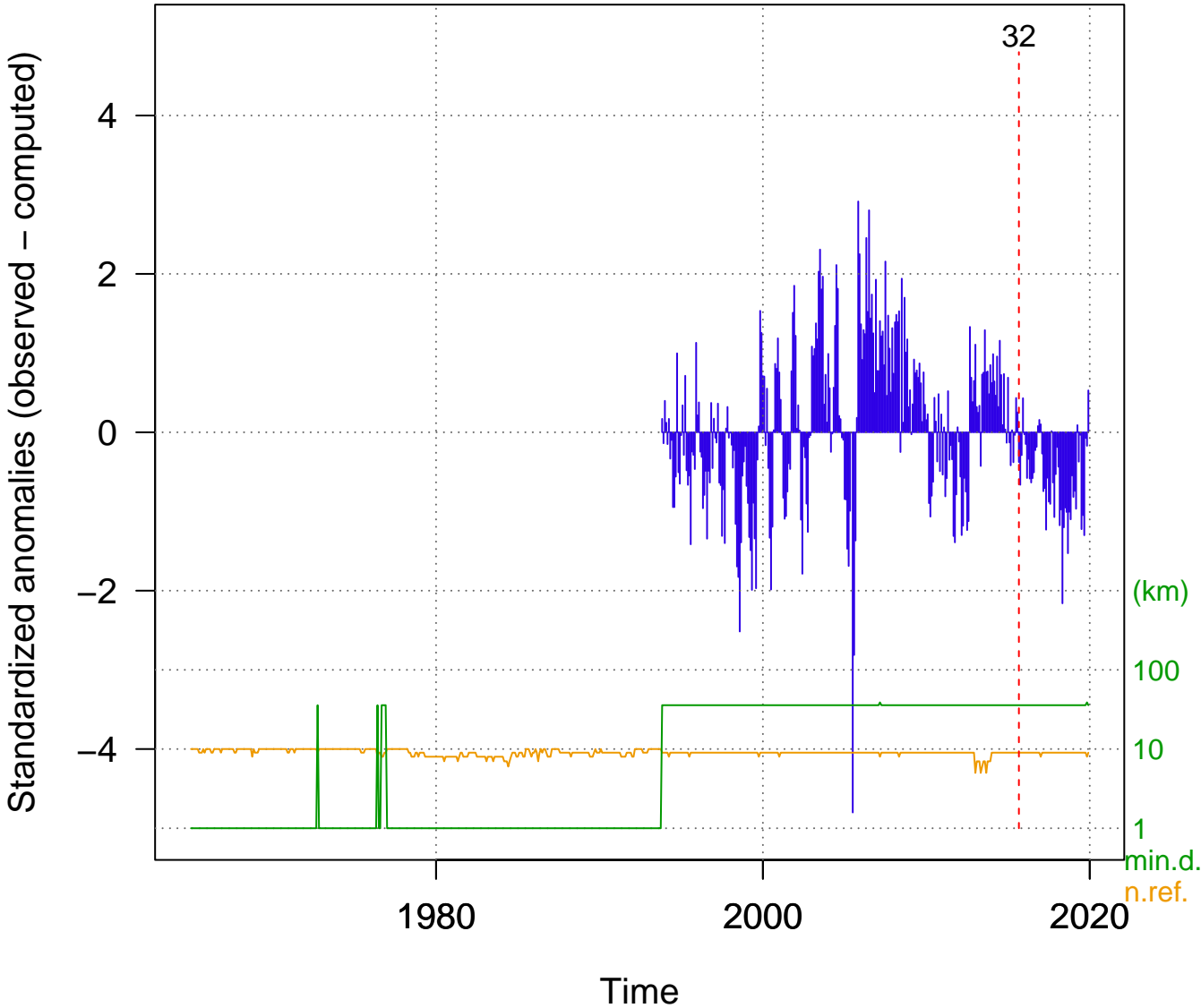


**tmin-m 9 (ho00000787)**  
**HUARAYAMOHO**



tmin-m 8 (ho00000786)

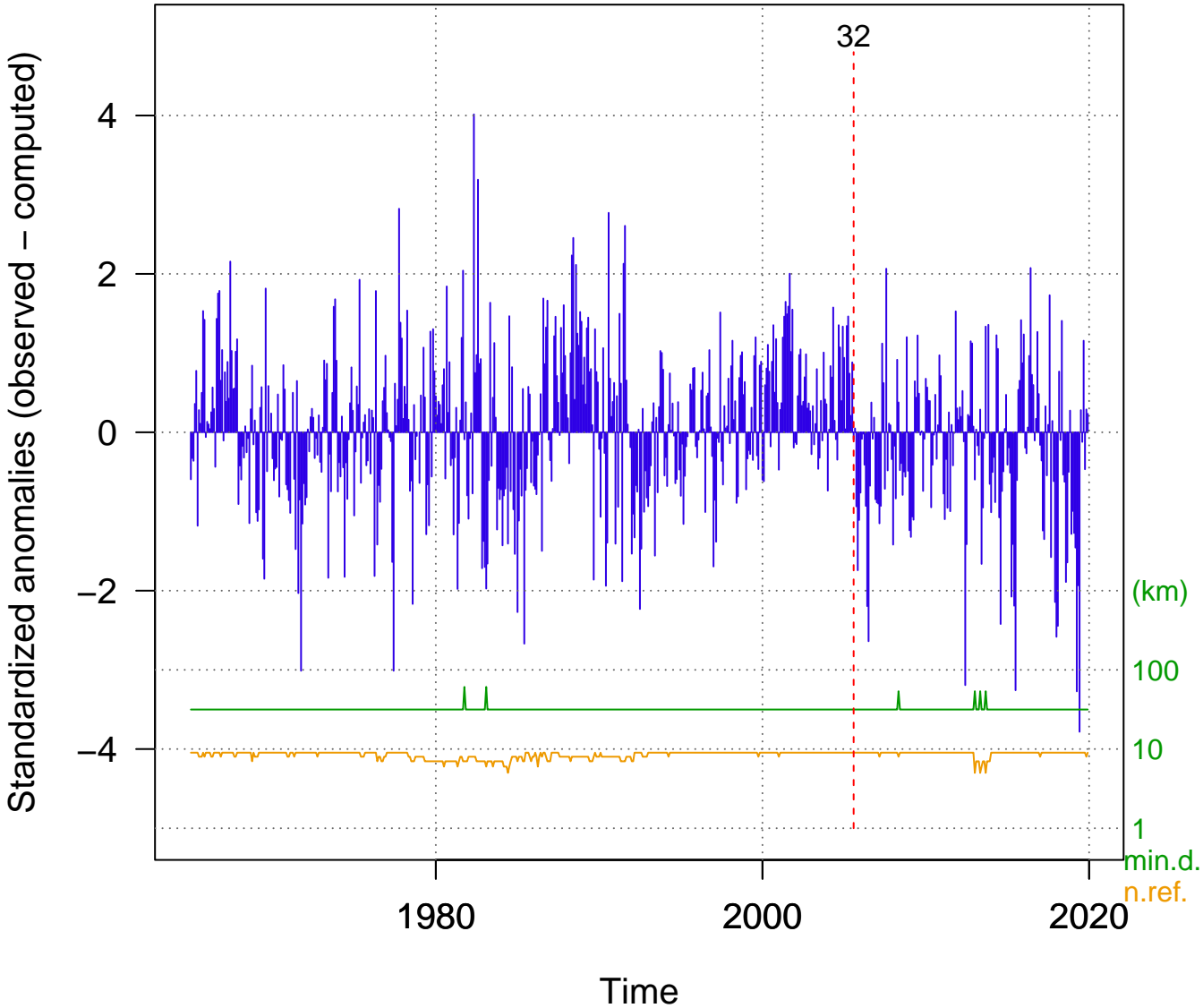
HUANCANE





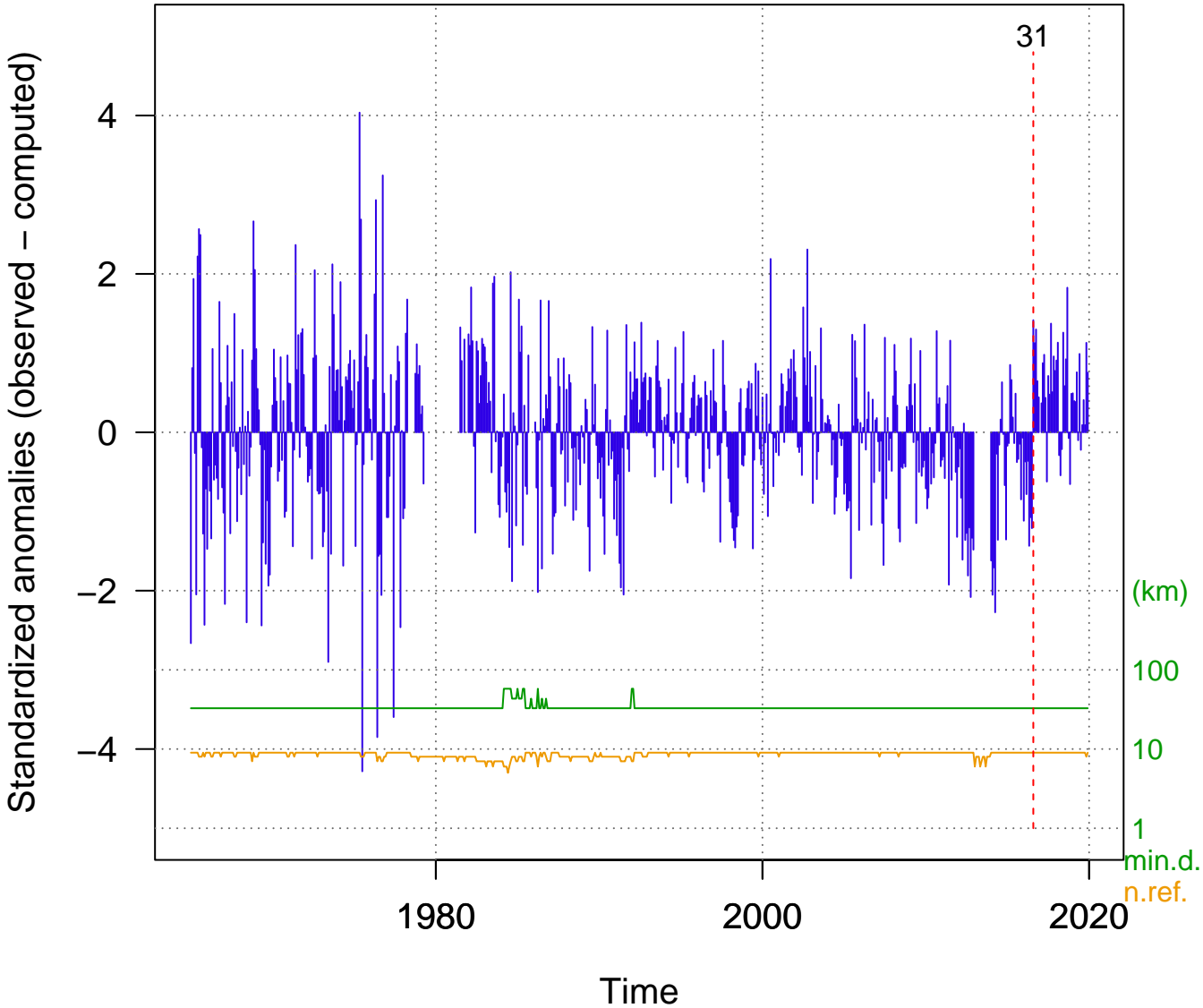
tmin-m 4 (ho00000780)

CABANILLAS



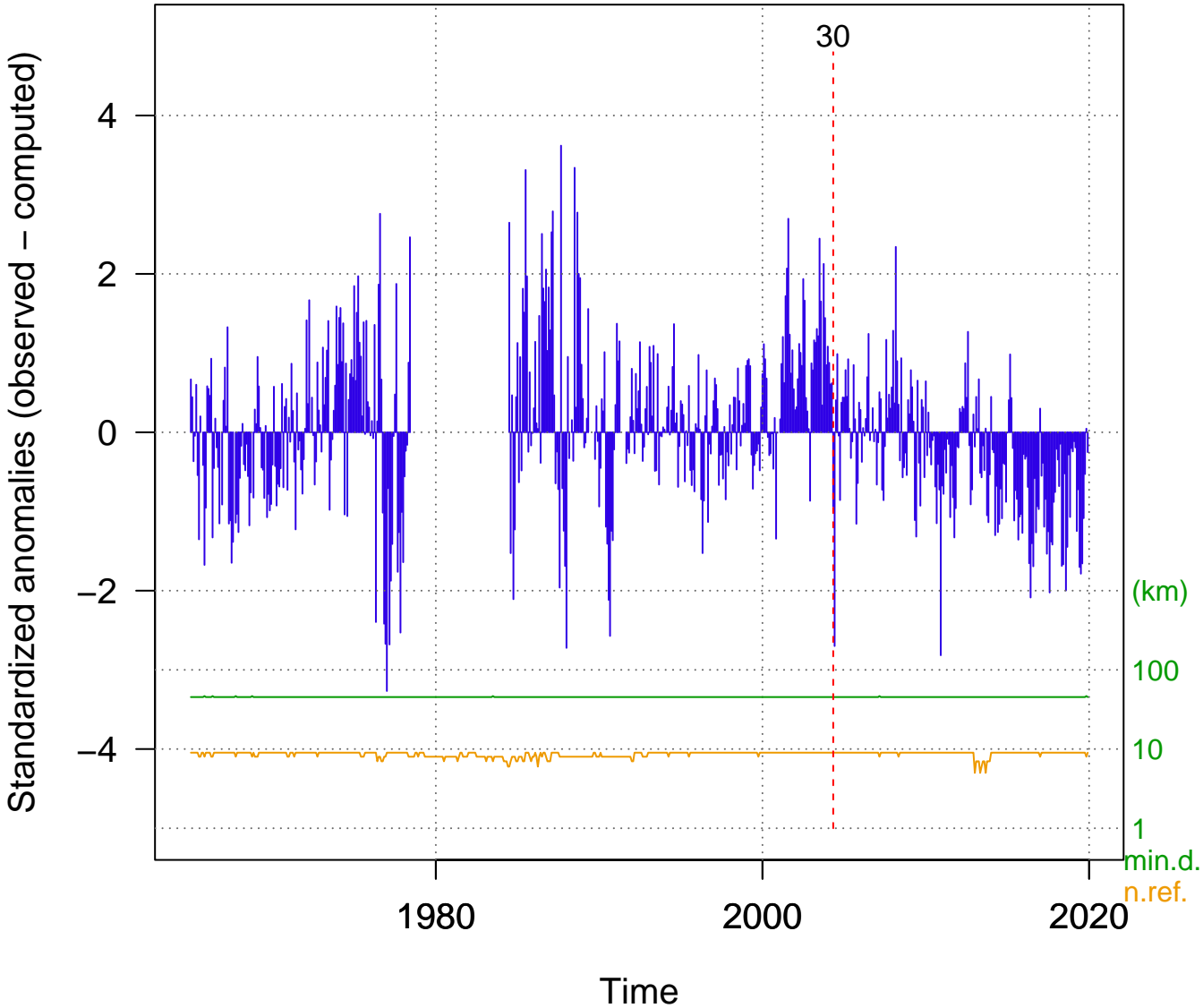
tmin-m 1 (ho00000776)

AYAVIRI



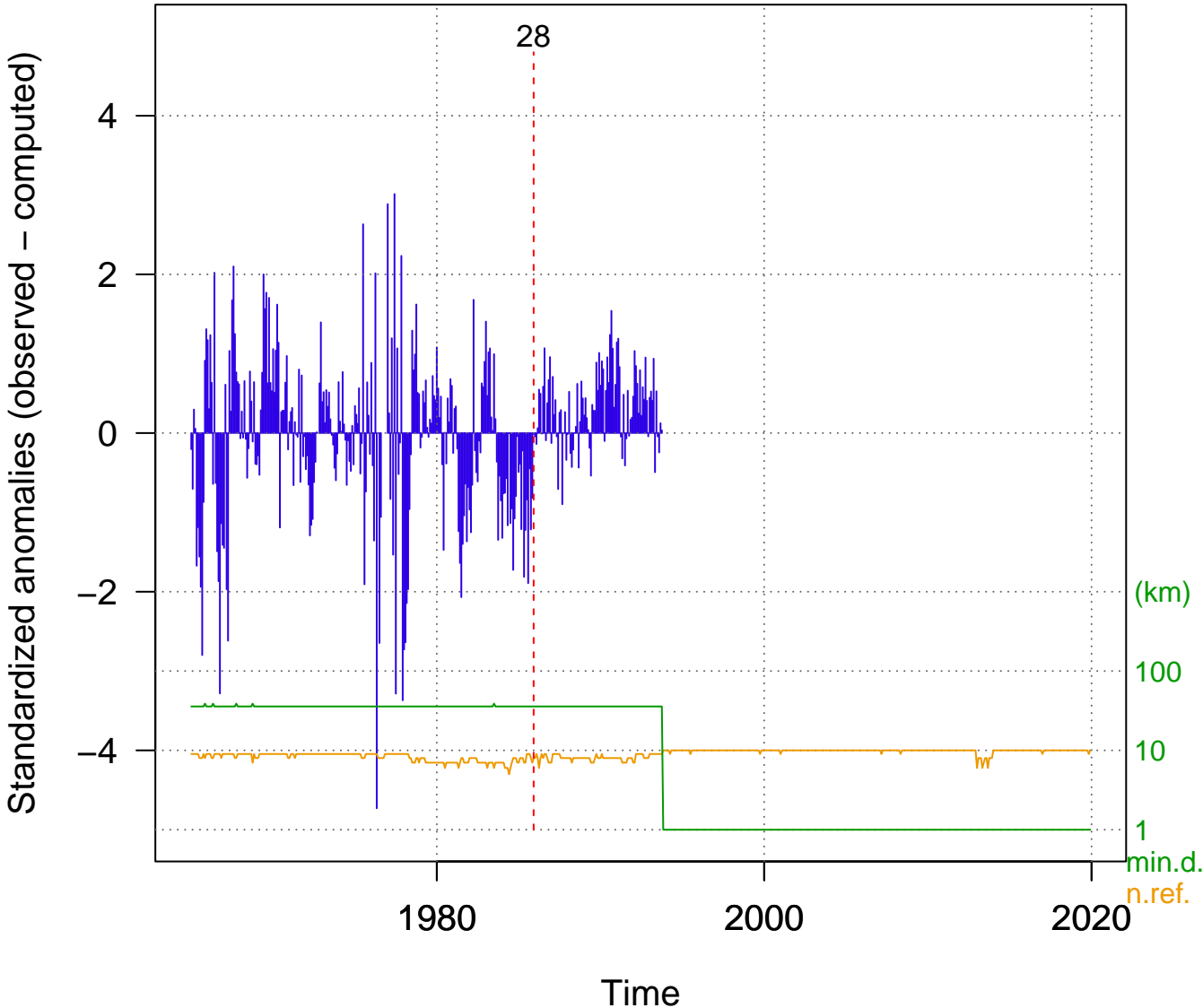
tmin-m 10 (ho00000788)

CAPACHICA



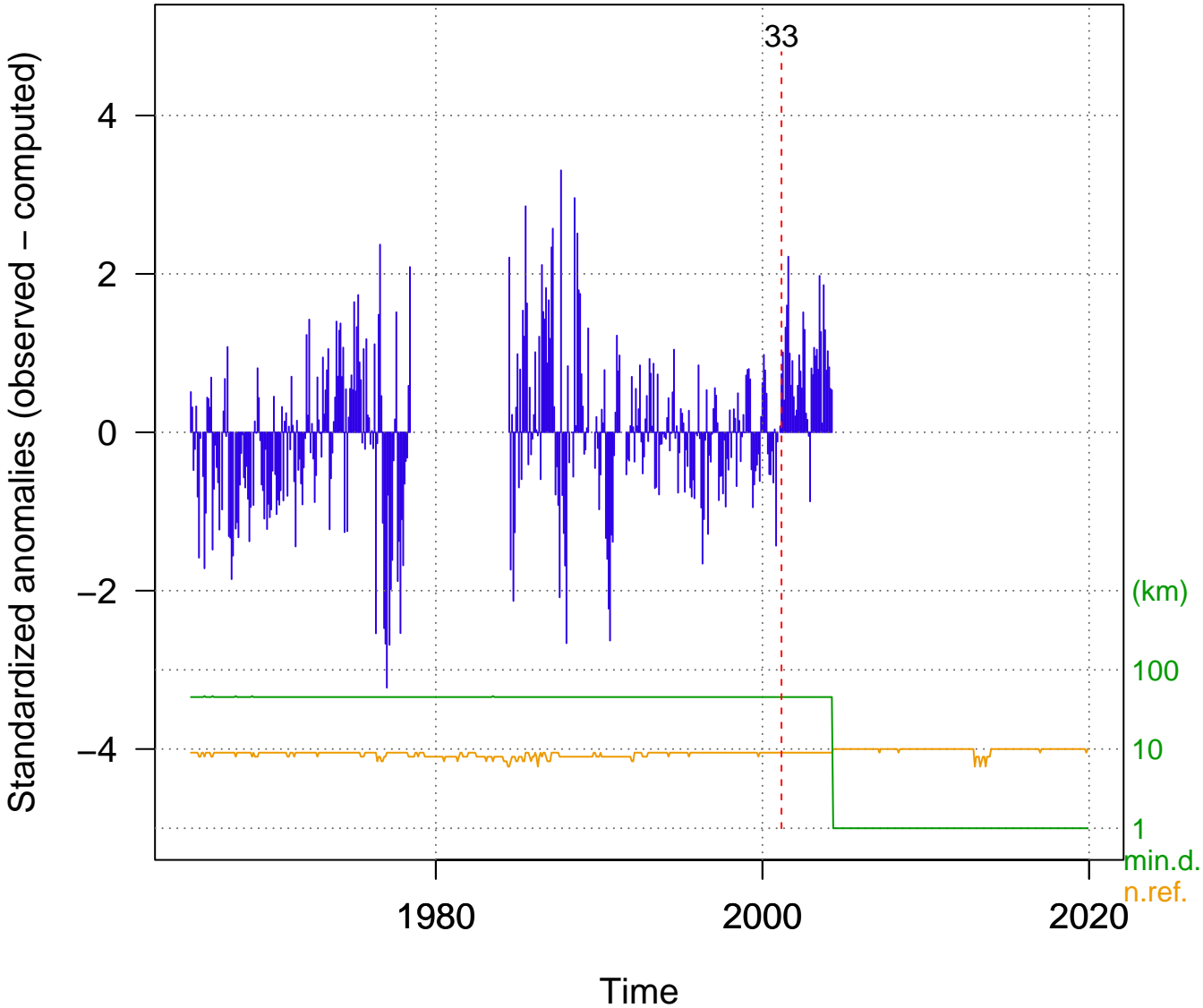
tmin-m 11 (ho00000786-2)

HUANCANE-2



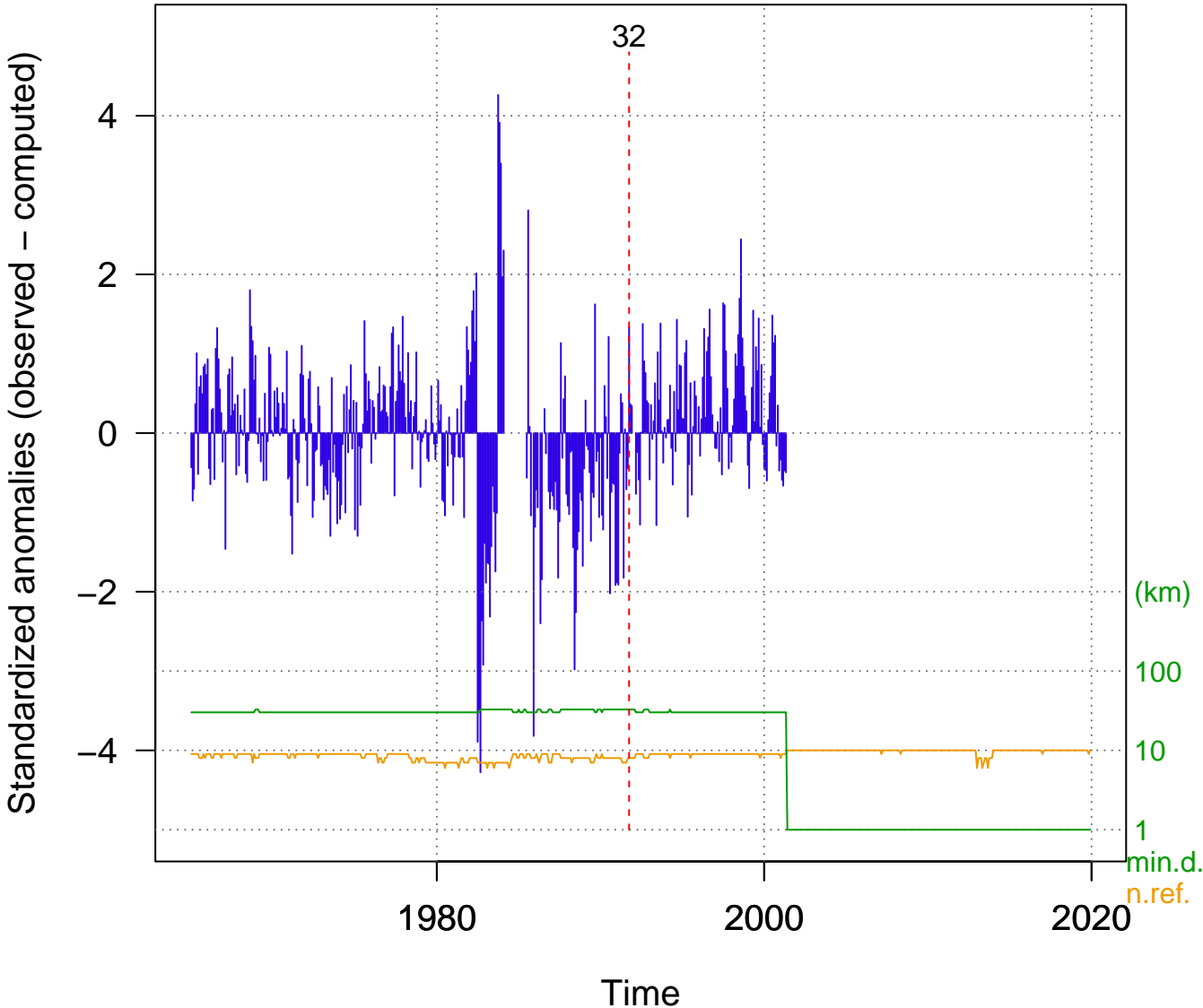
tmin-m 18 (ho00000788-2)

CAPACHICA-2

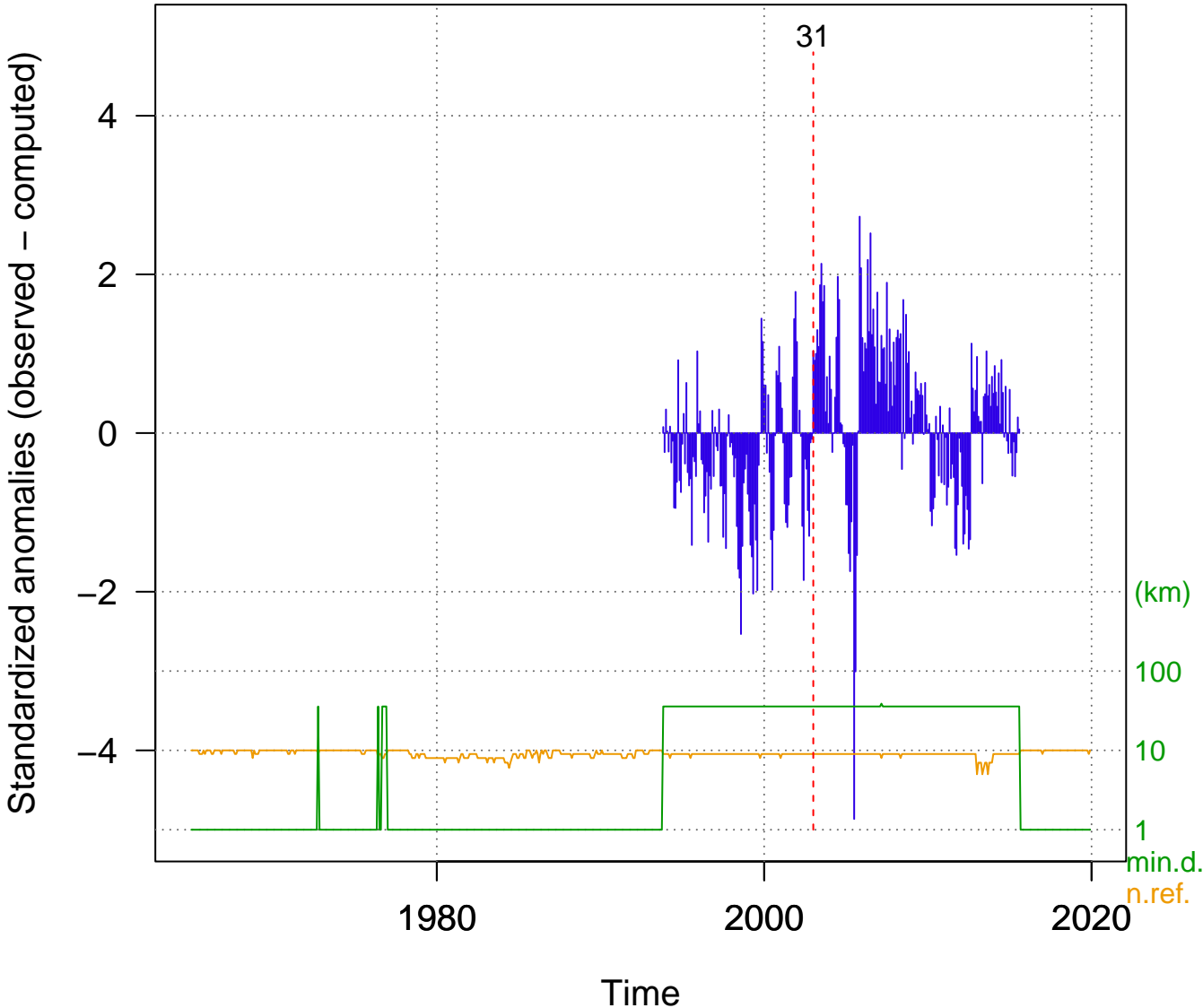


tmin-m 13 (ho00000778-2)

PROGRESO-2

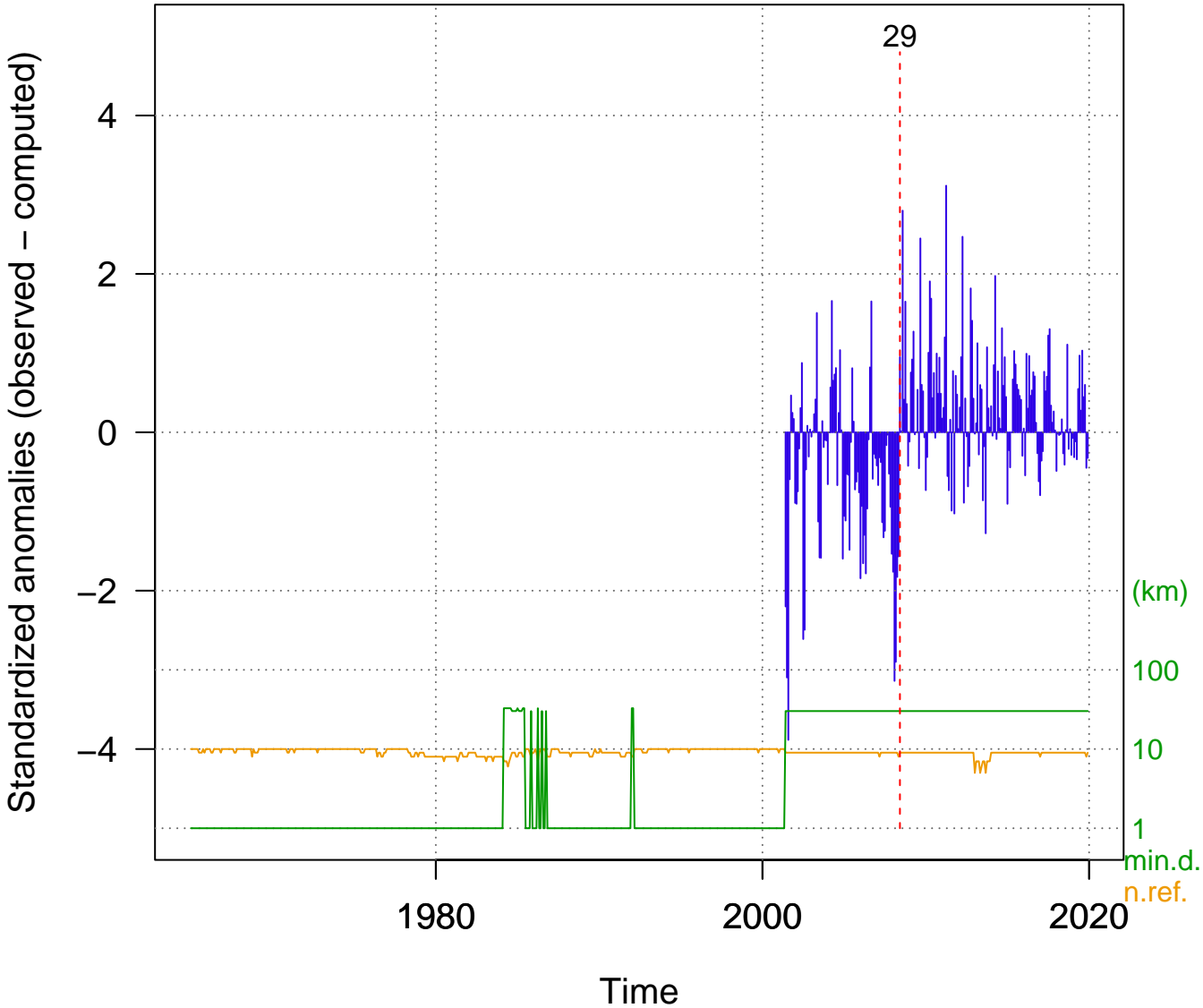


**tmin-m 15 (ho00000786-3)**  
**HUANCANE-3**



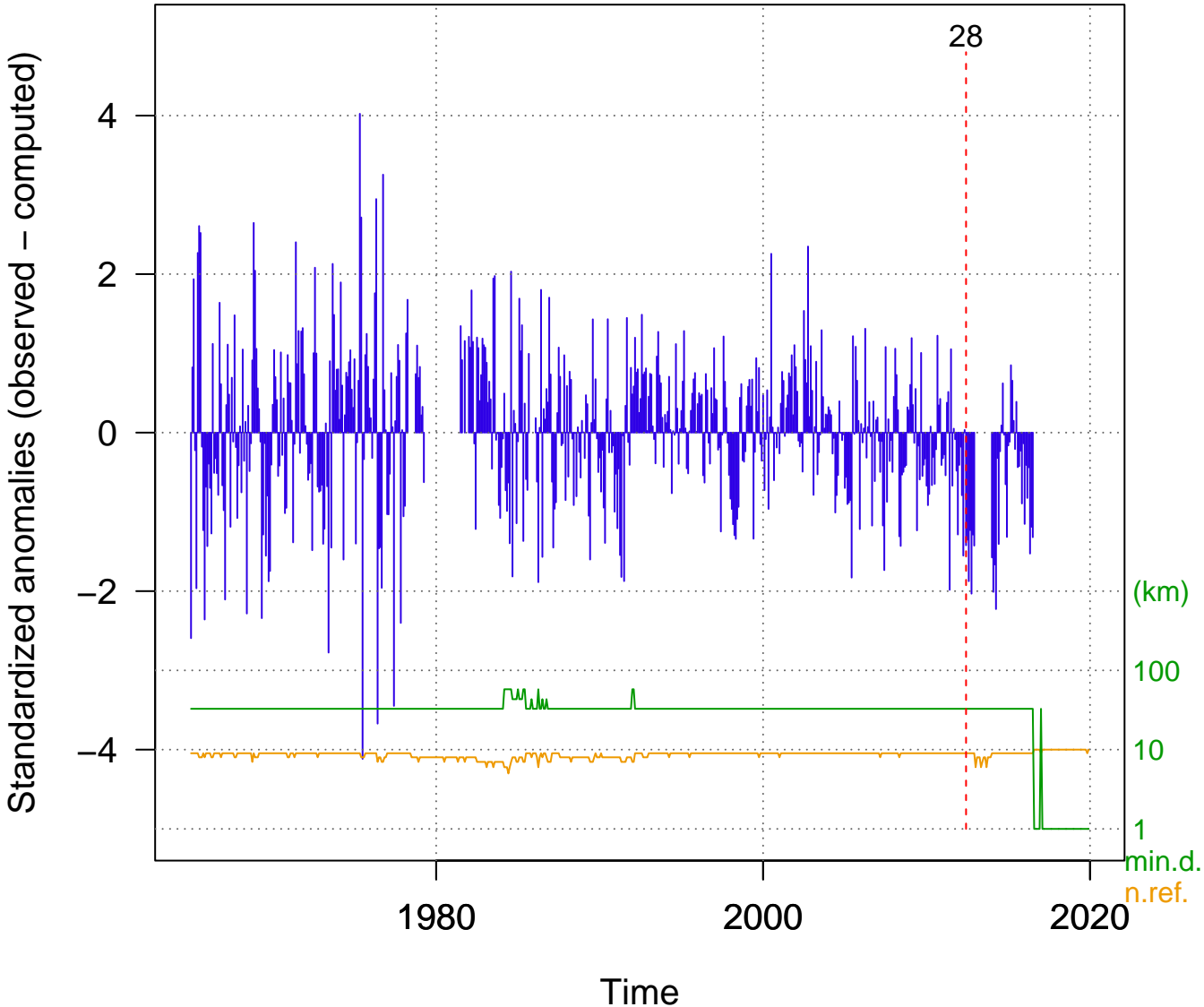
tmin-m 2 (ho00000778)

PROGRESO



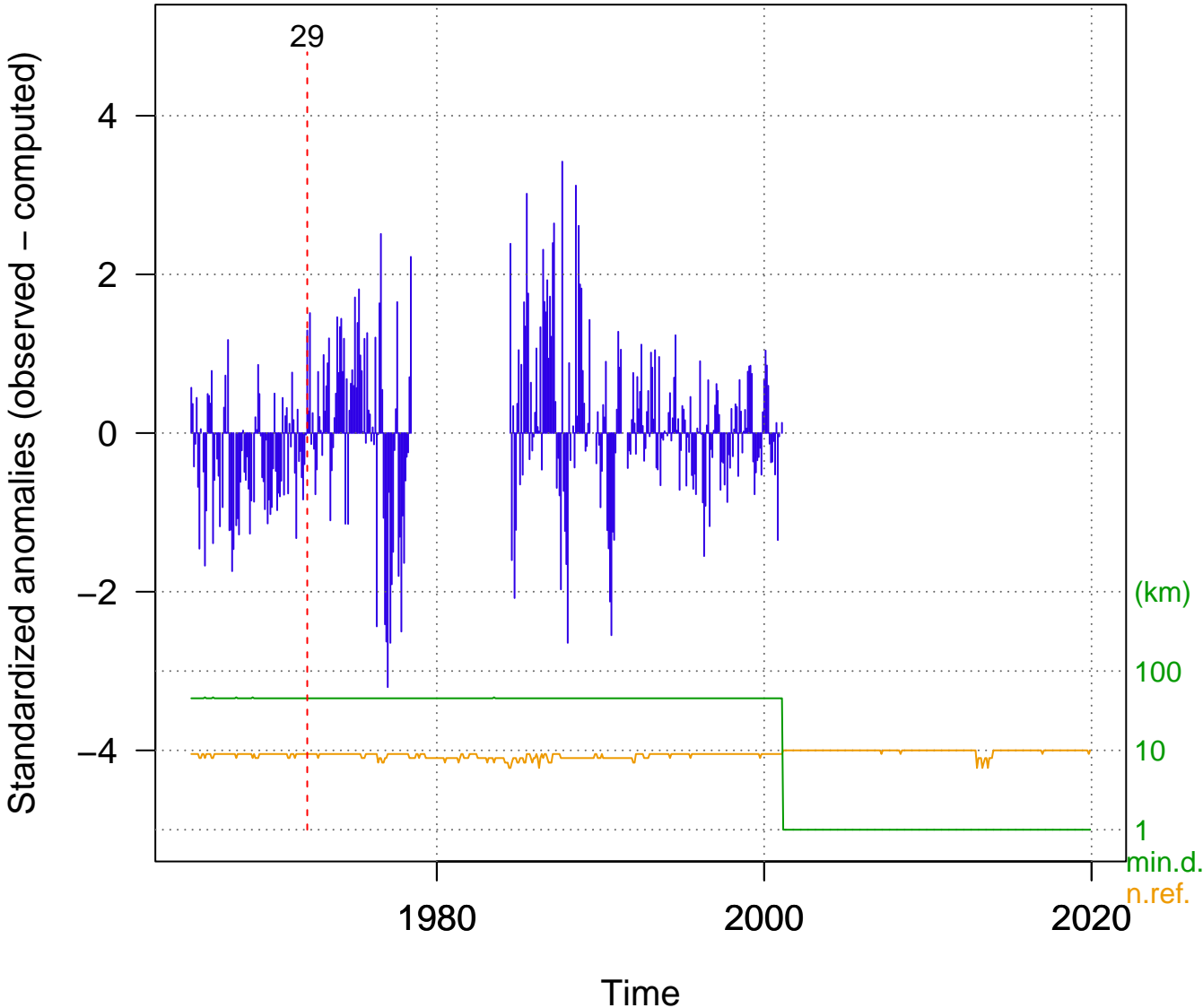


**tmin-m 17 (ho00000776-2)**  
**AYAVIRI-2**



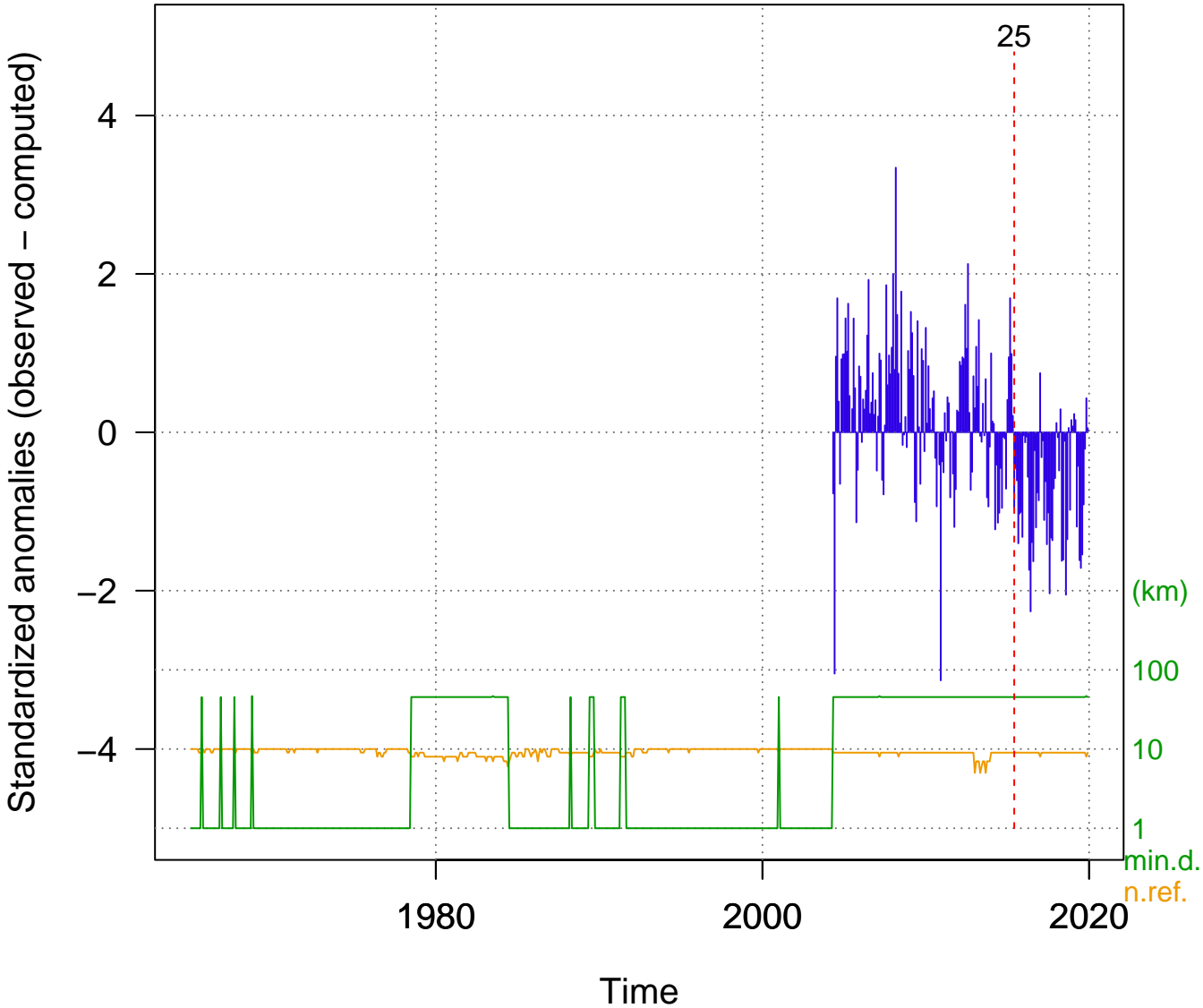
tmin-m 20 (ho00000788-3)

CAPACHICA-3

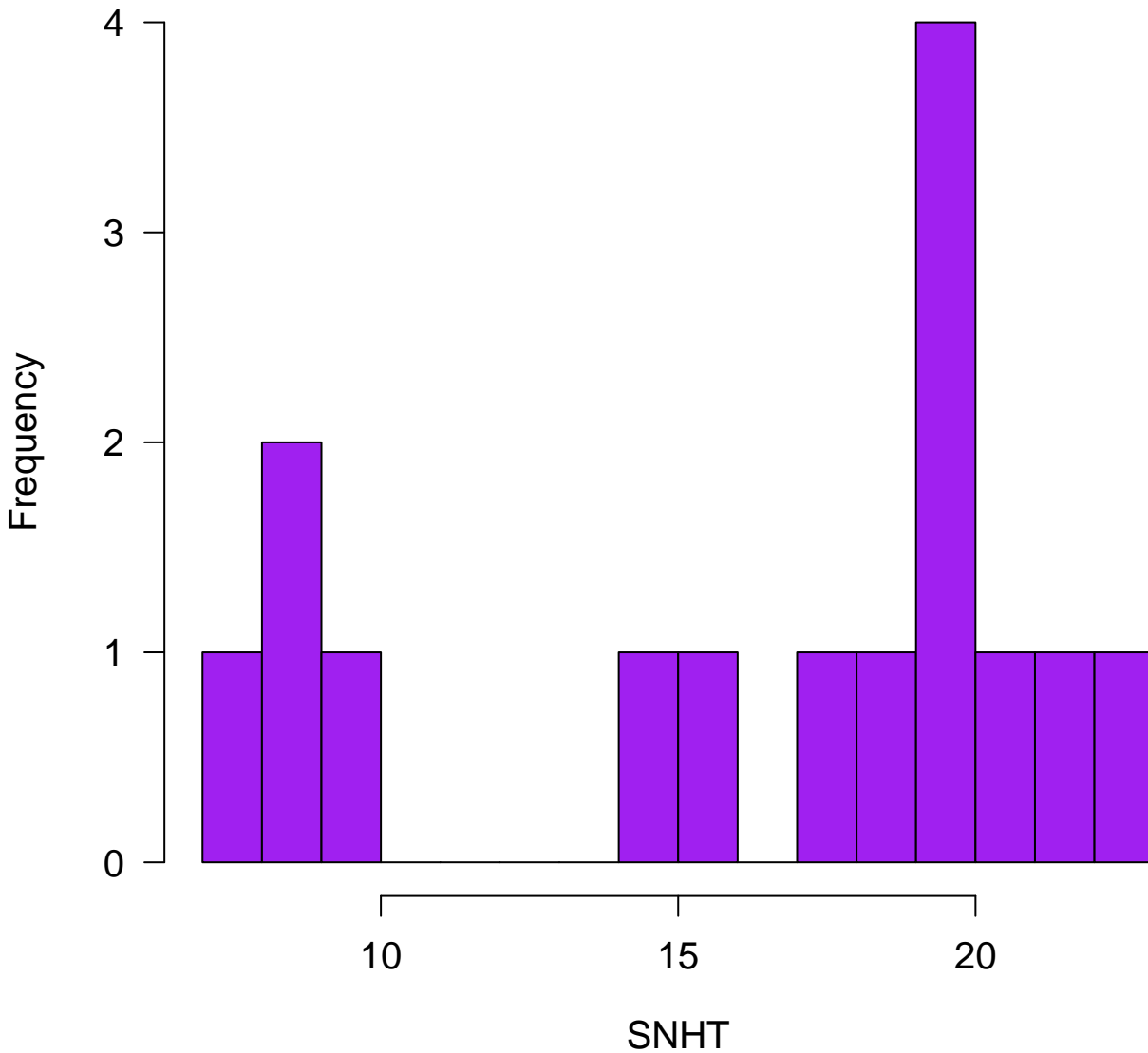


tmin-m 10 (ho00000788)

CAPACHICA



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

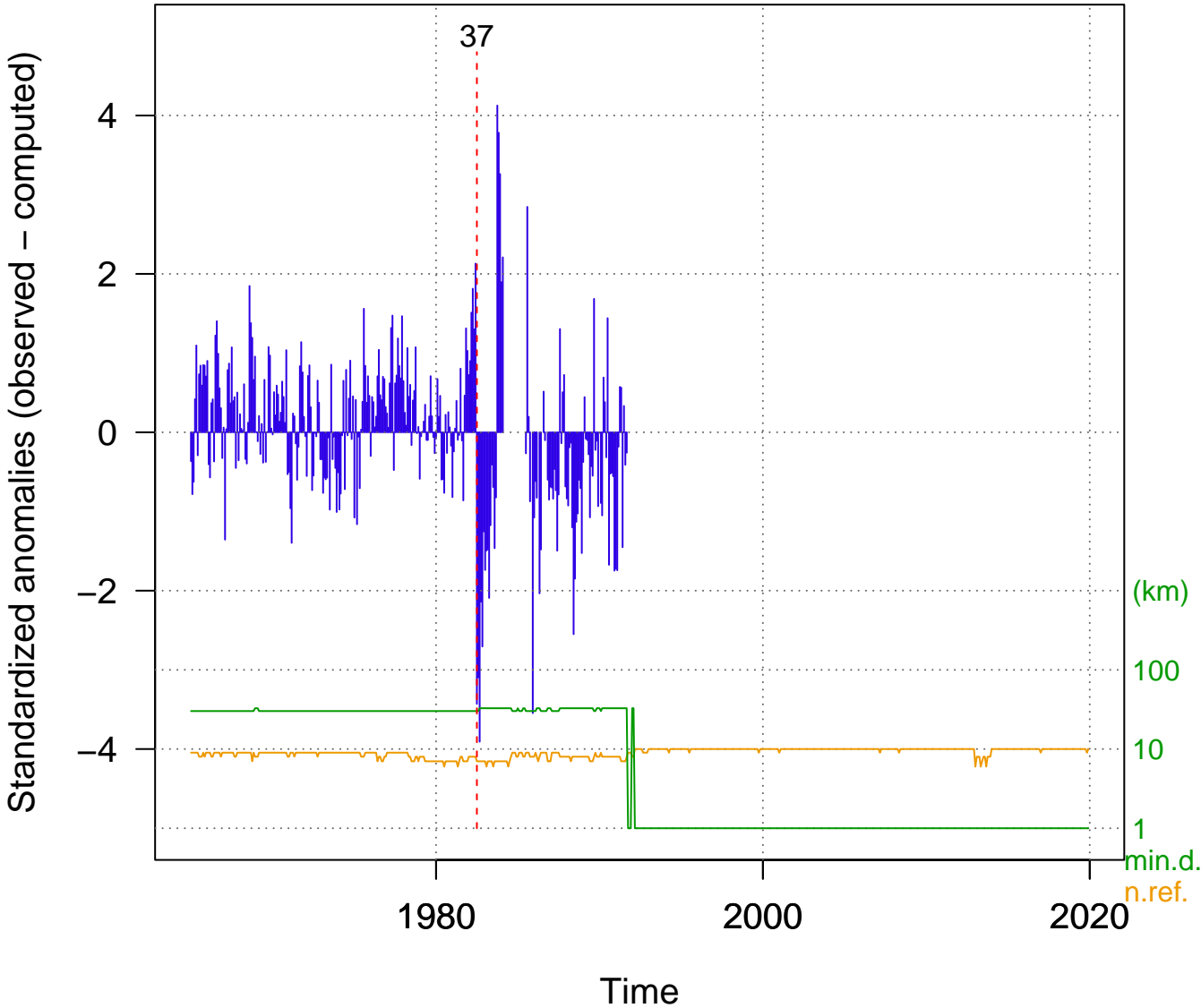


# Stage 2

Binary splits on  
whole series with  
 $\text{std}=3$ ,  $\text{SNHT}>25$   
and  $\text{wd}=0$  km

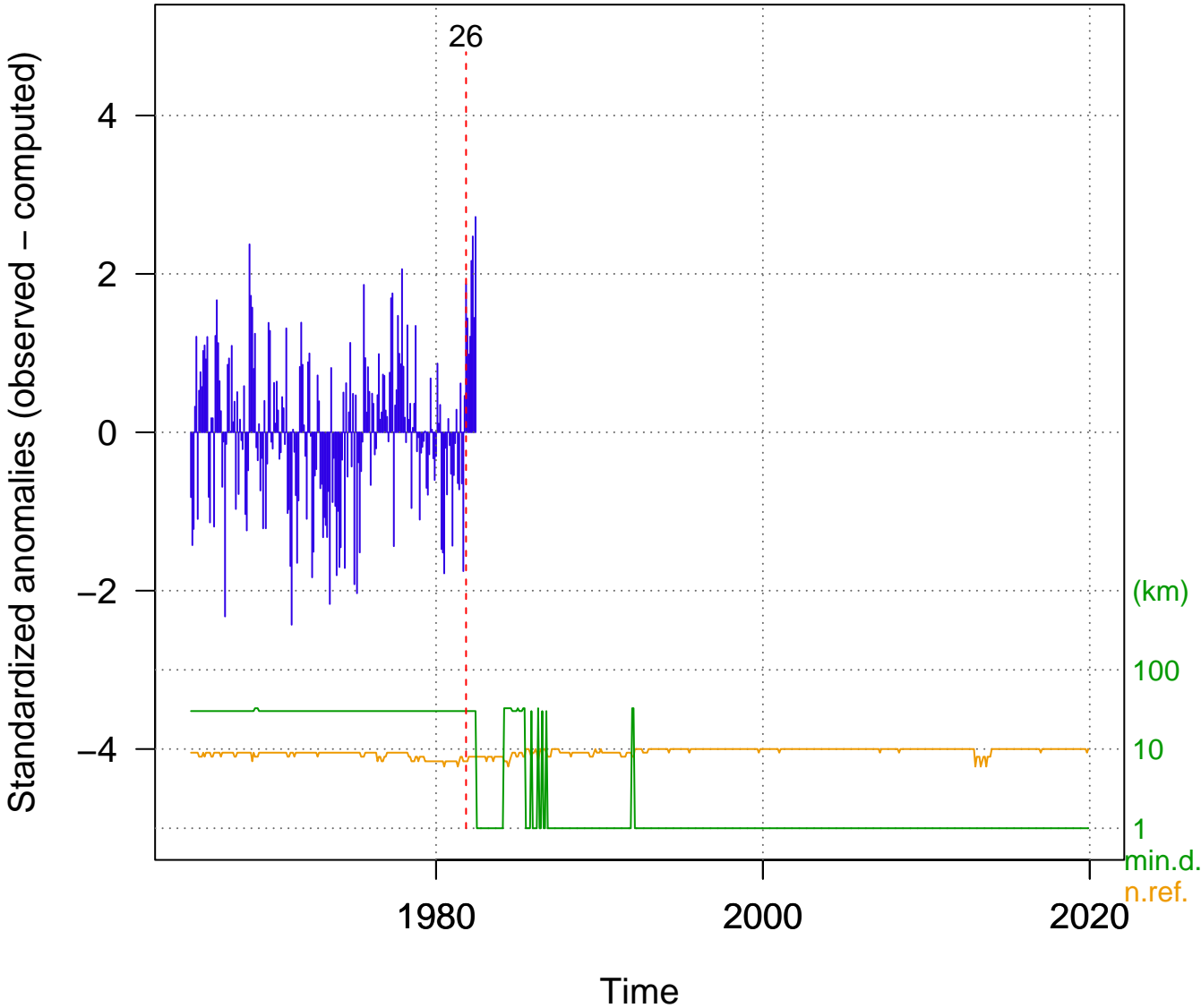
tmin-m 21 (ho00000778-3)

PROGRESO-3



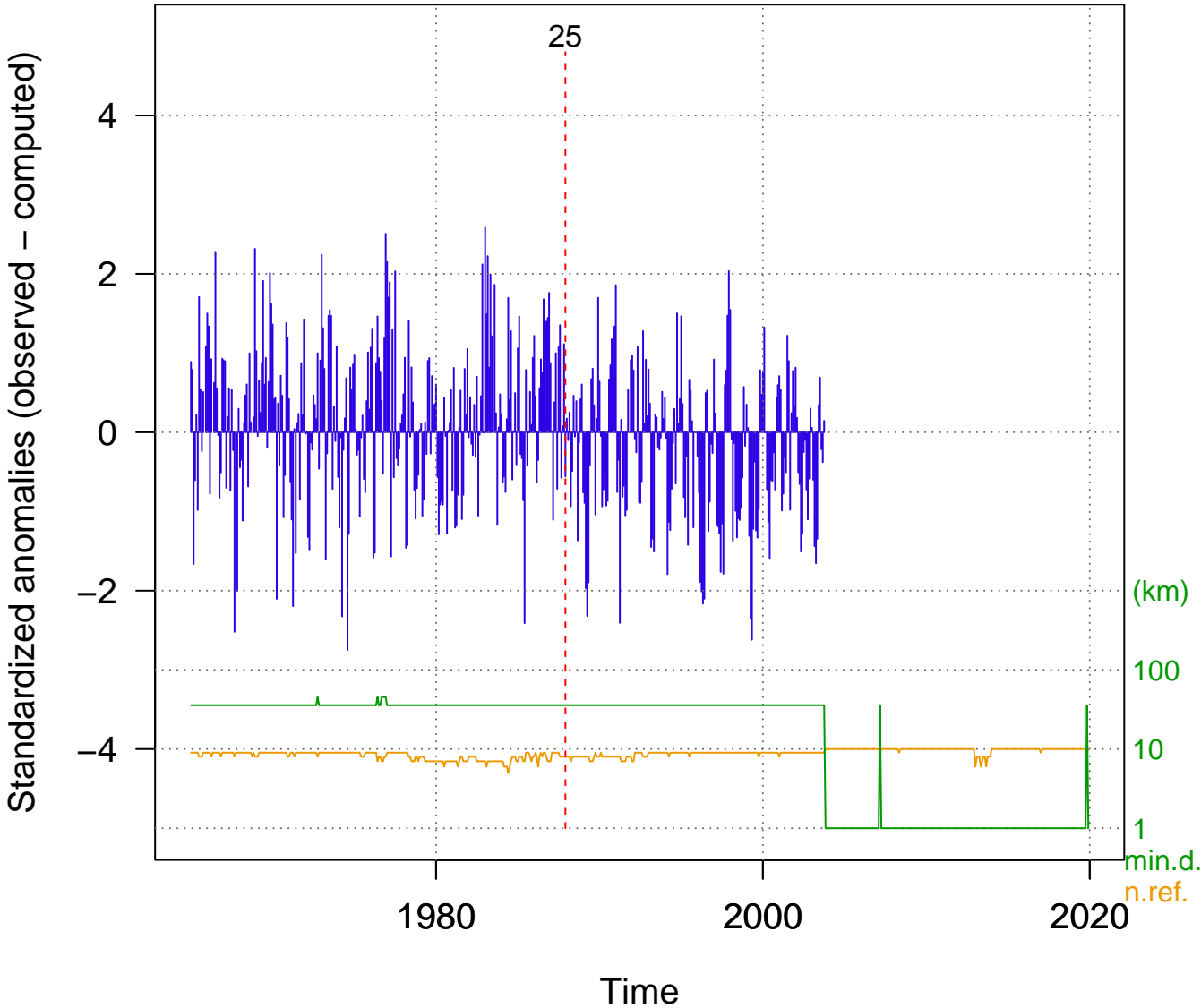
tmin-m 27 (ho00000778-5)

PROGRESO-5



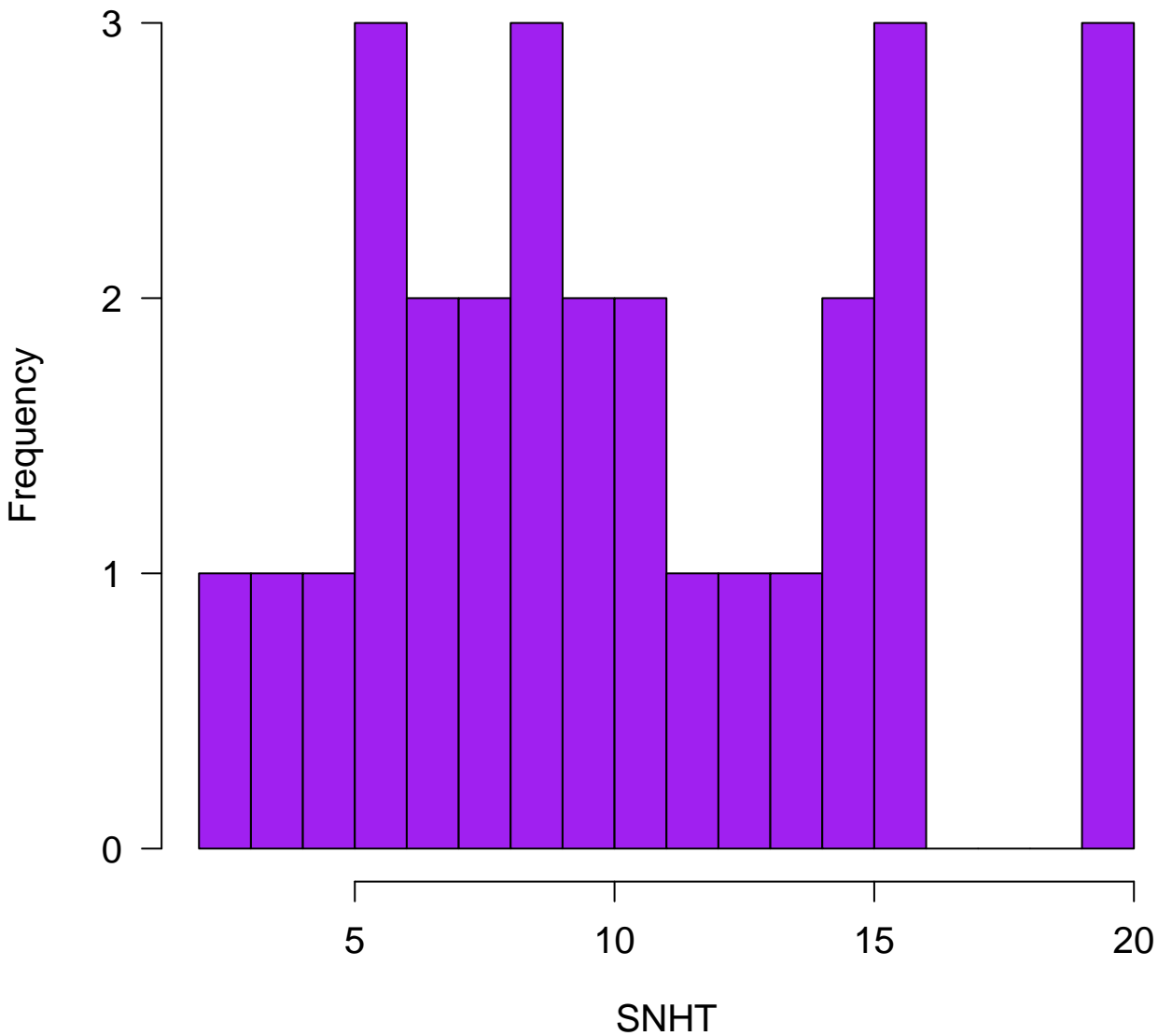
tmin-m 14 (ho00000787-2)

HUARAYAMOHO-2

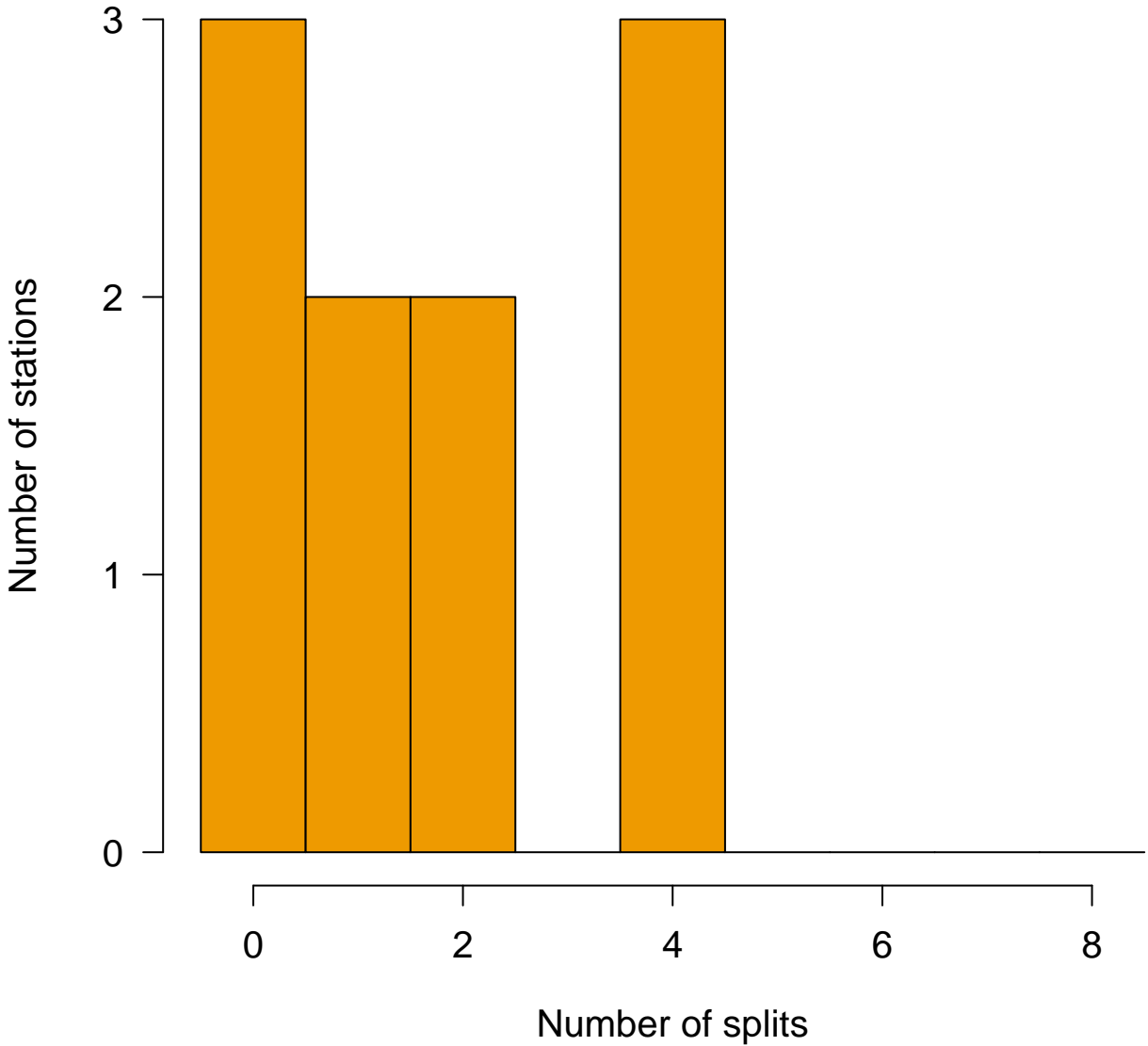




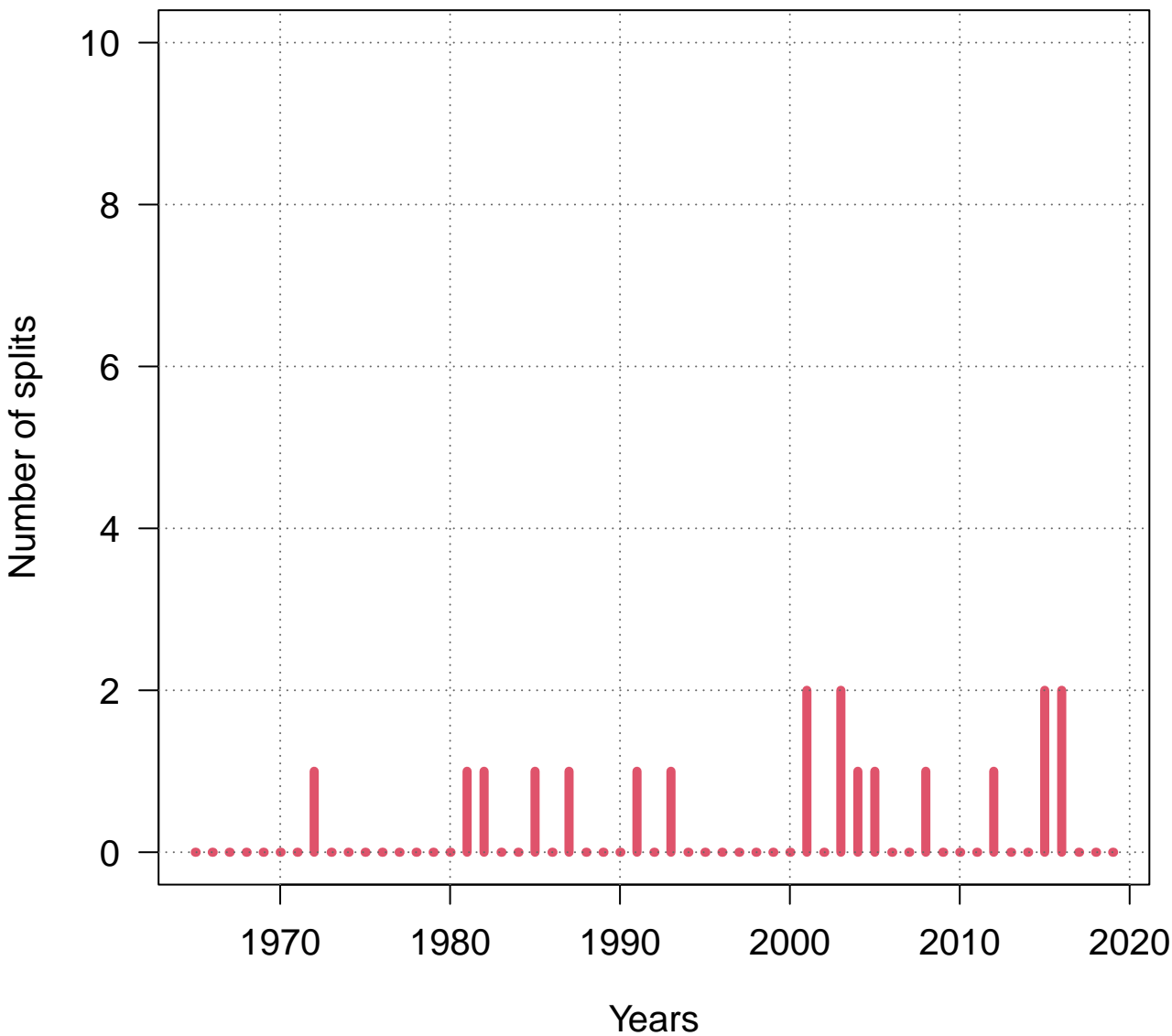
**Histogram of maximum SNHT (Stage 2)**



**Number of splits per station**



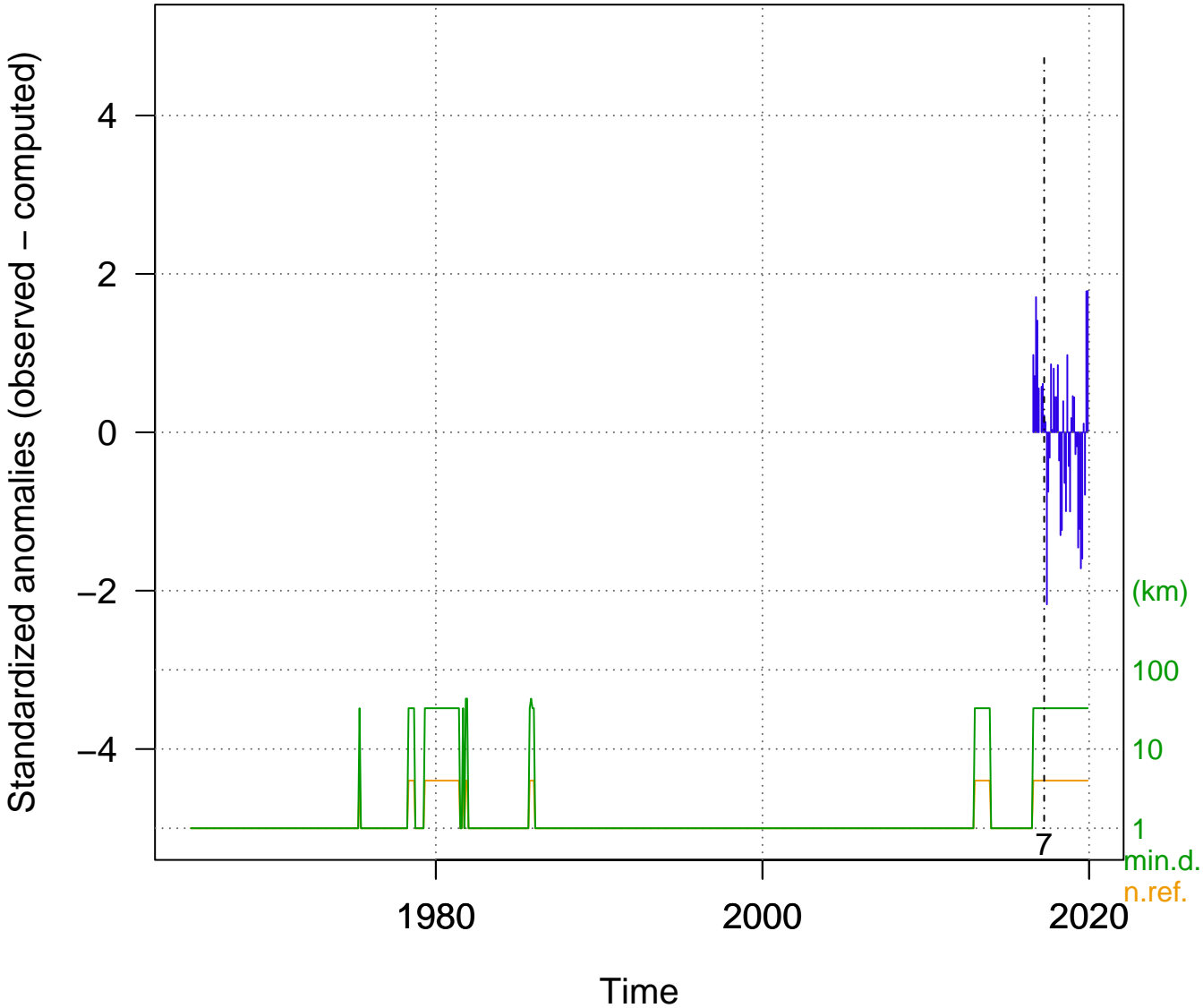
# Number of splits per year



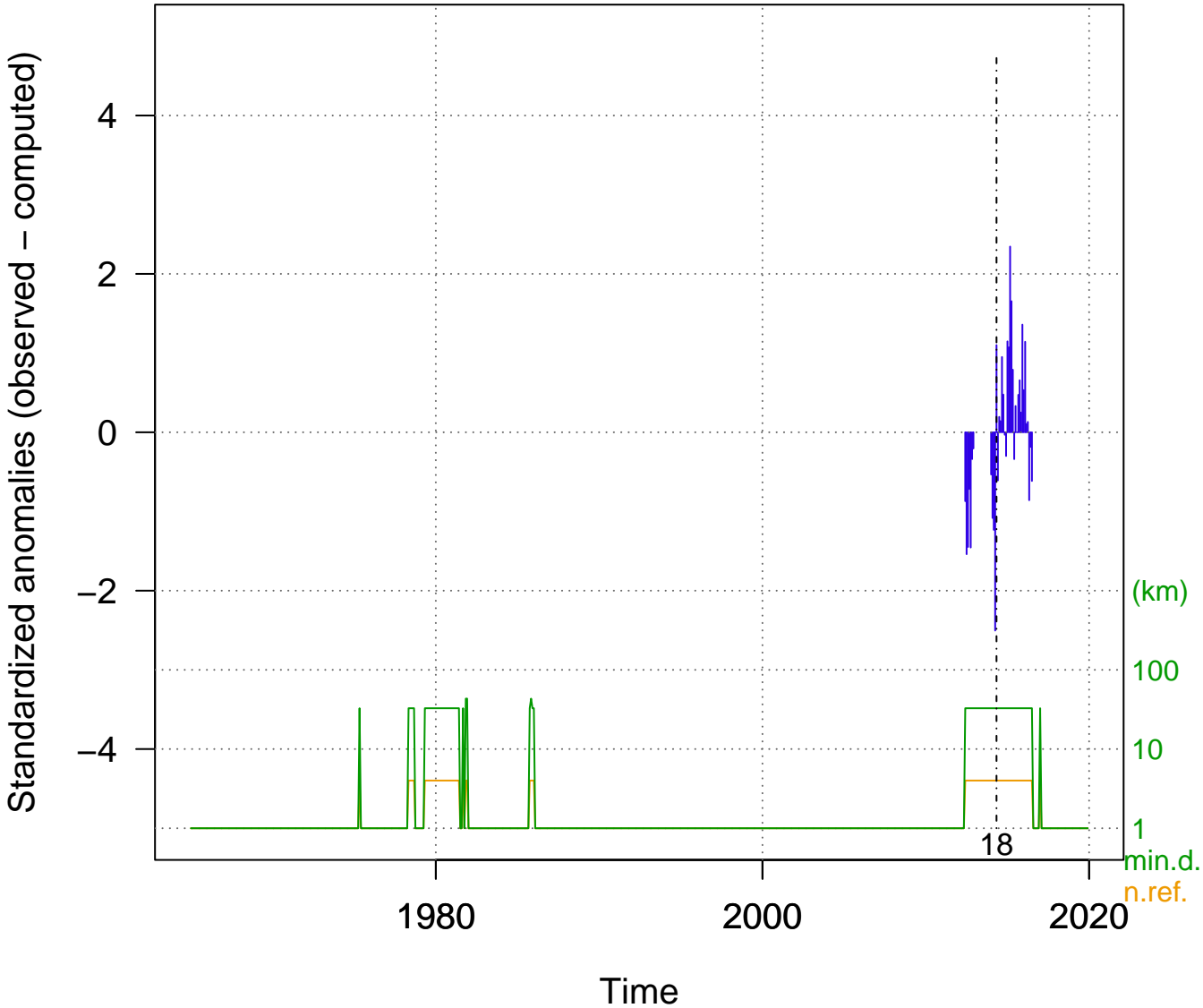
# Stage 3

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

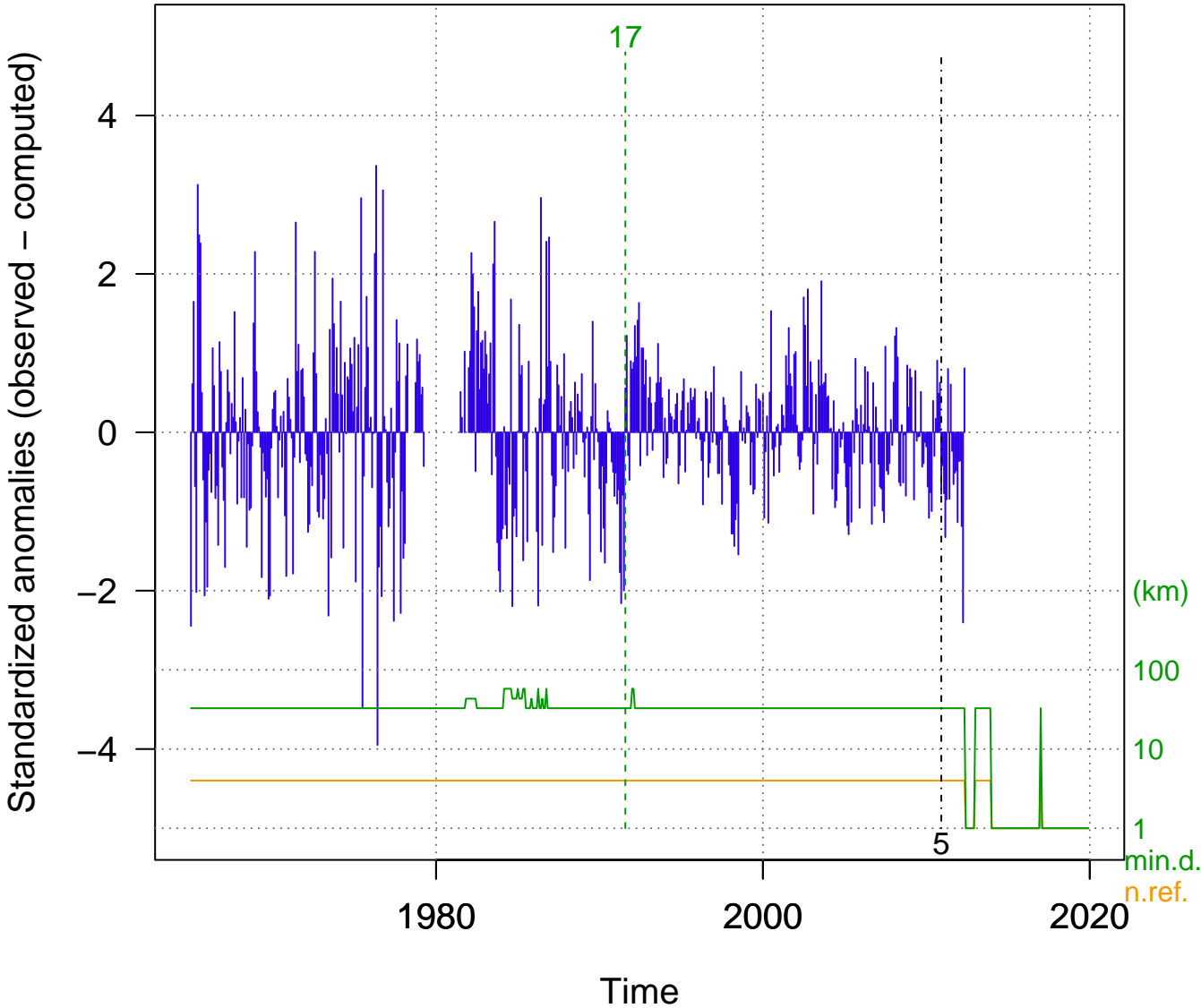
**tmin-m 1 (ho00000776)**  
**AYAVIRI**



**tmin-m 17 (ho00000776-2)**  
**AYAVIRI-2**

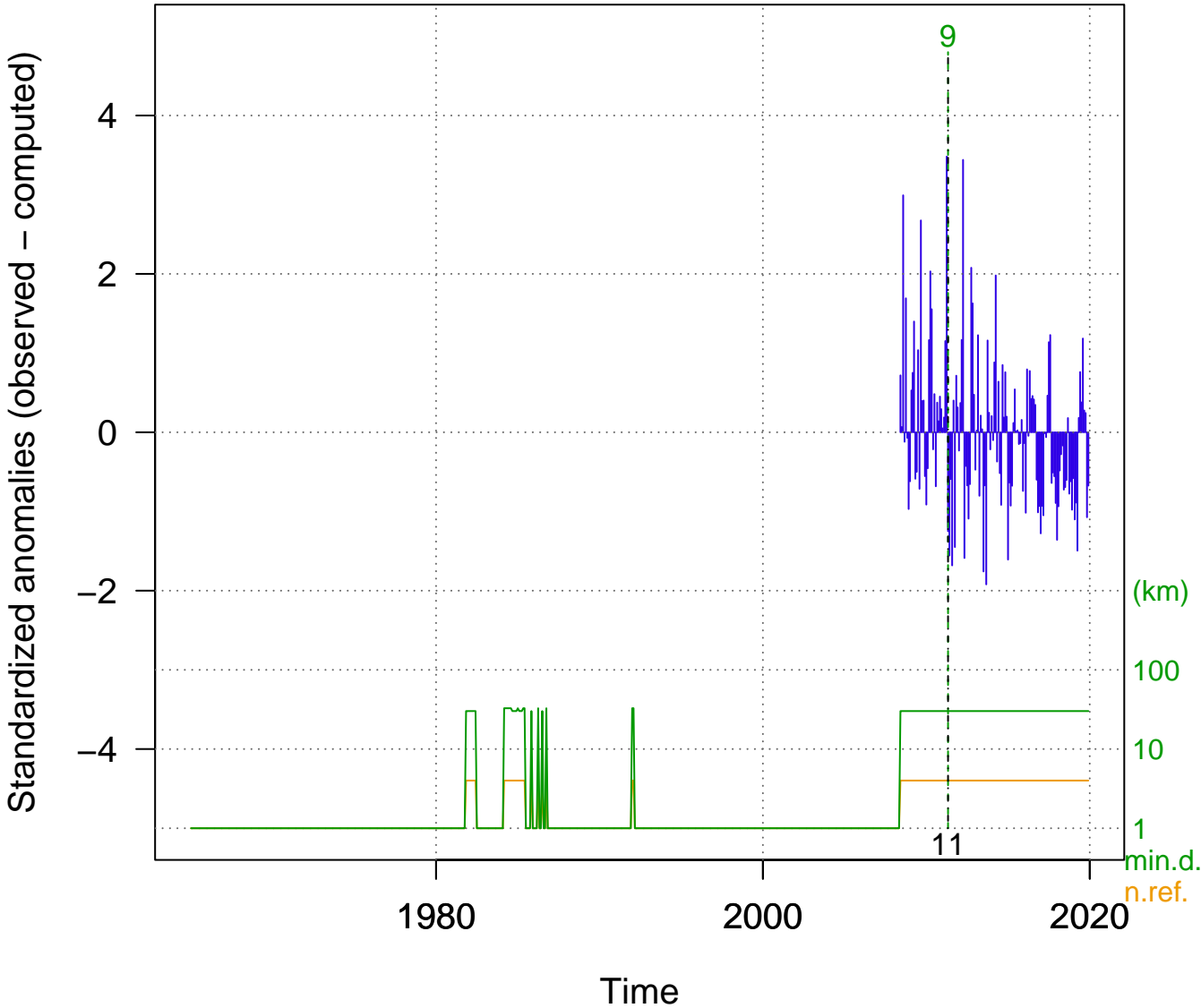


**tmin-m 24 (ho00000776-3)**  
**AYAVIRI-3**



tmin-m 2 (ho00000778)

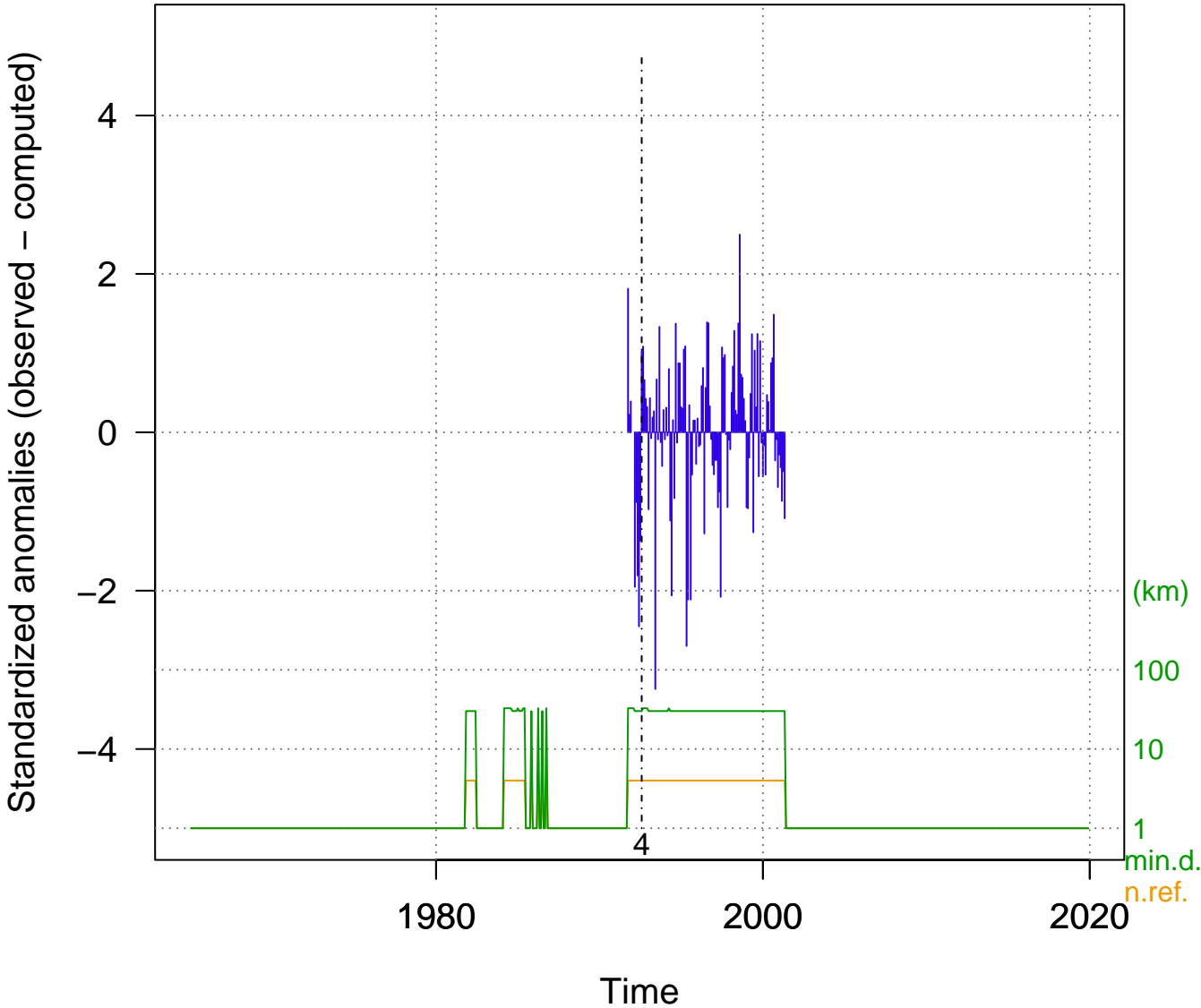
PROGRESO





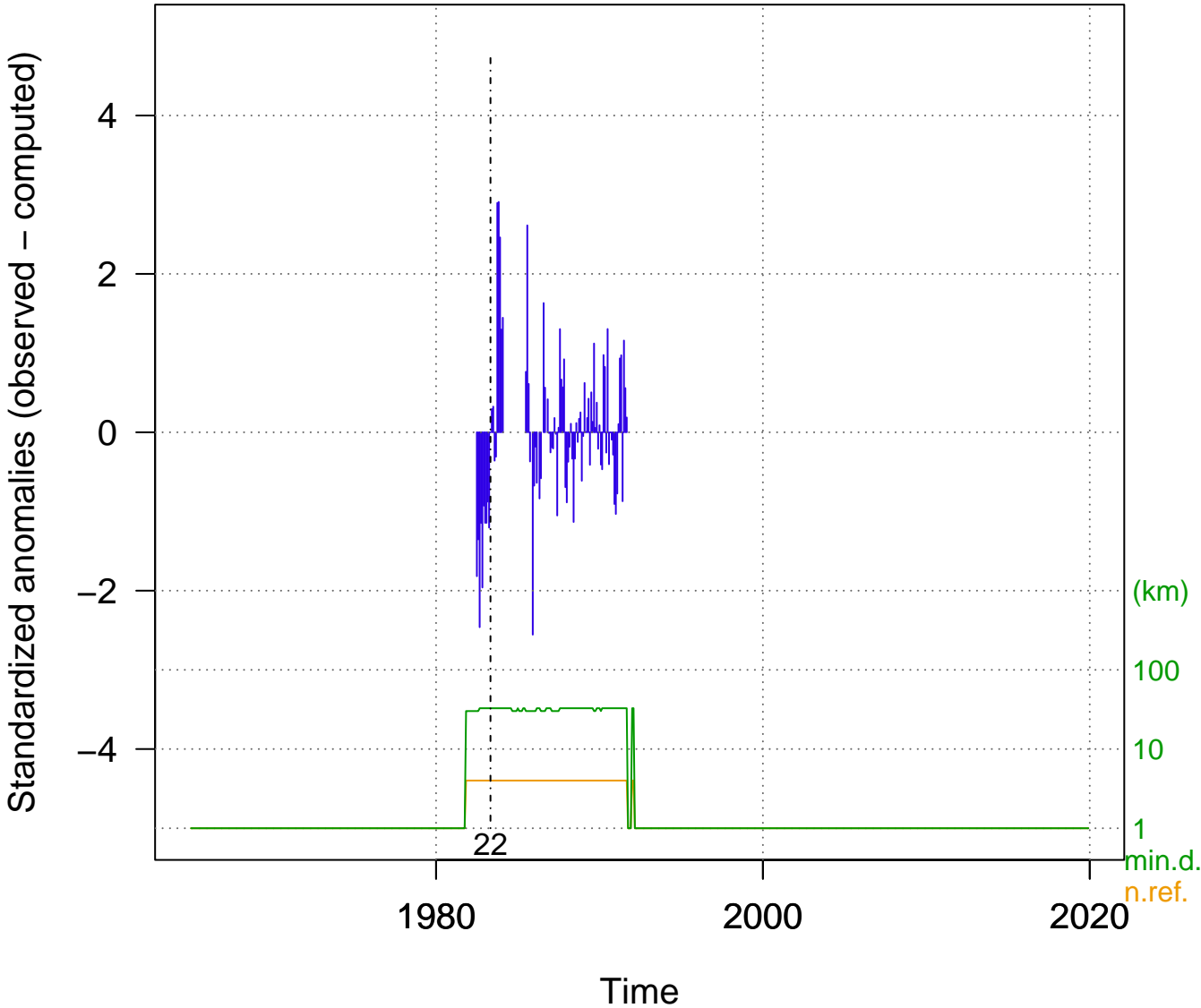
tmin-m 13 (ho00000778-2)

PROGRESO-2



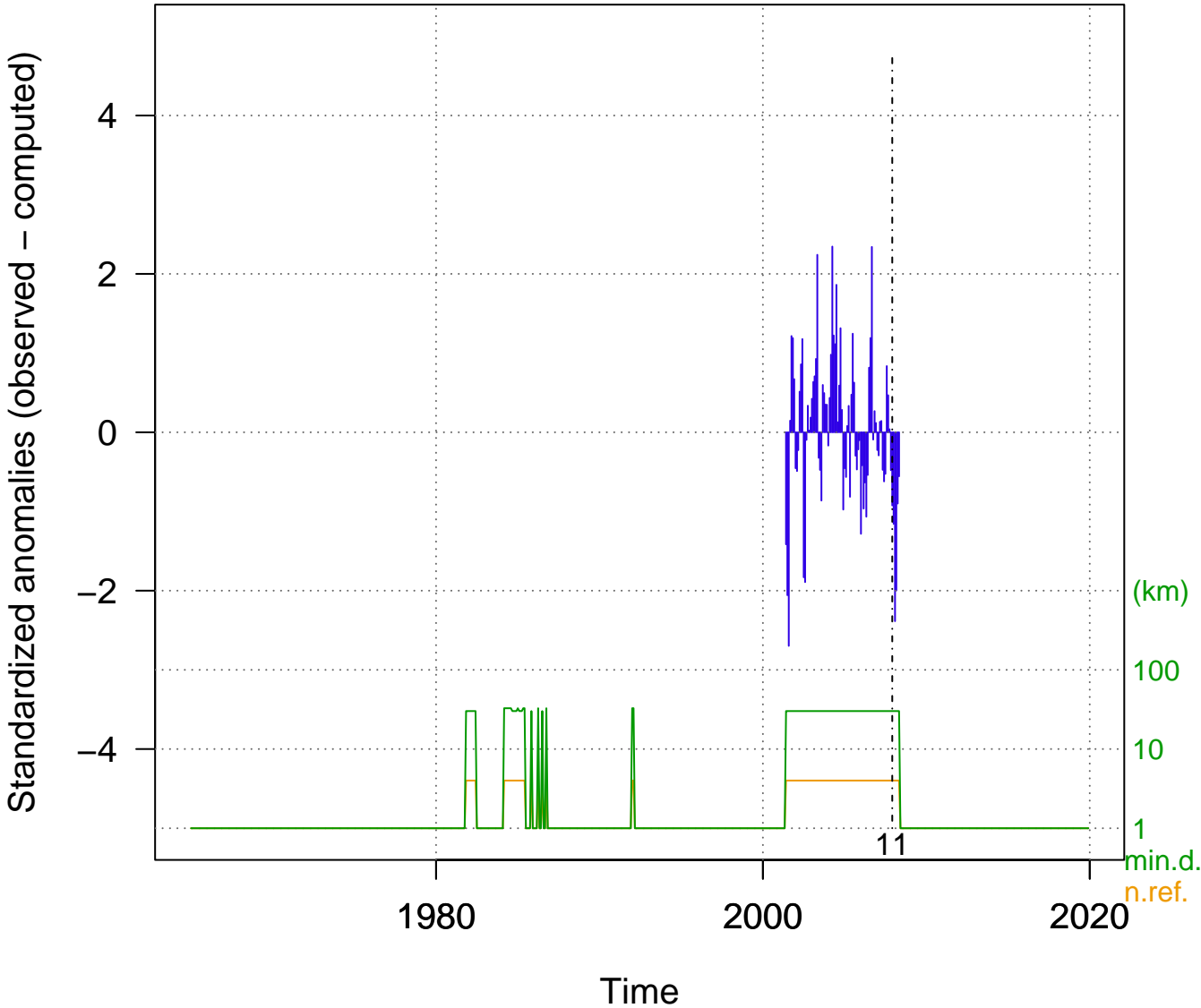
tmin-m 21 (ho00000778-3)

PROGRESO-3



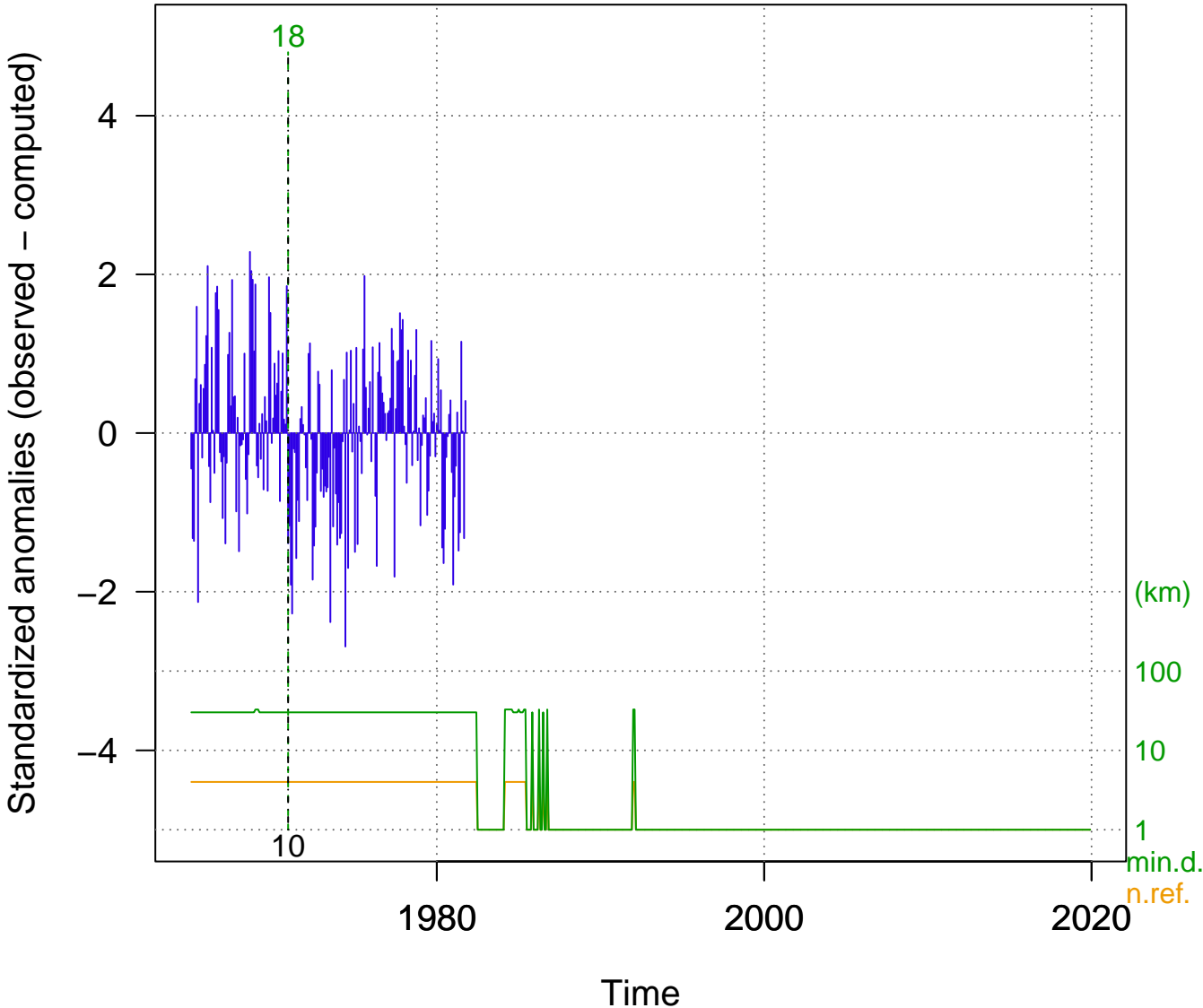
tmin-m 23 (ho00000778-4)

PROGRESO-4



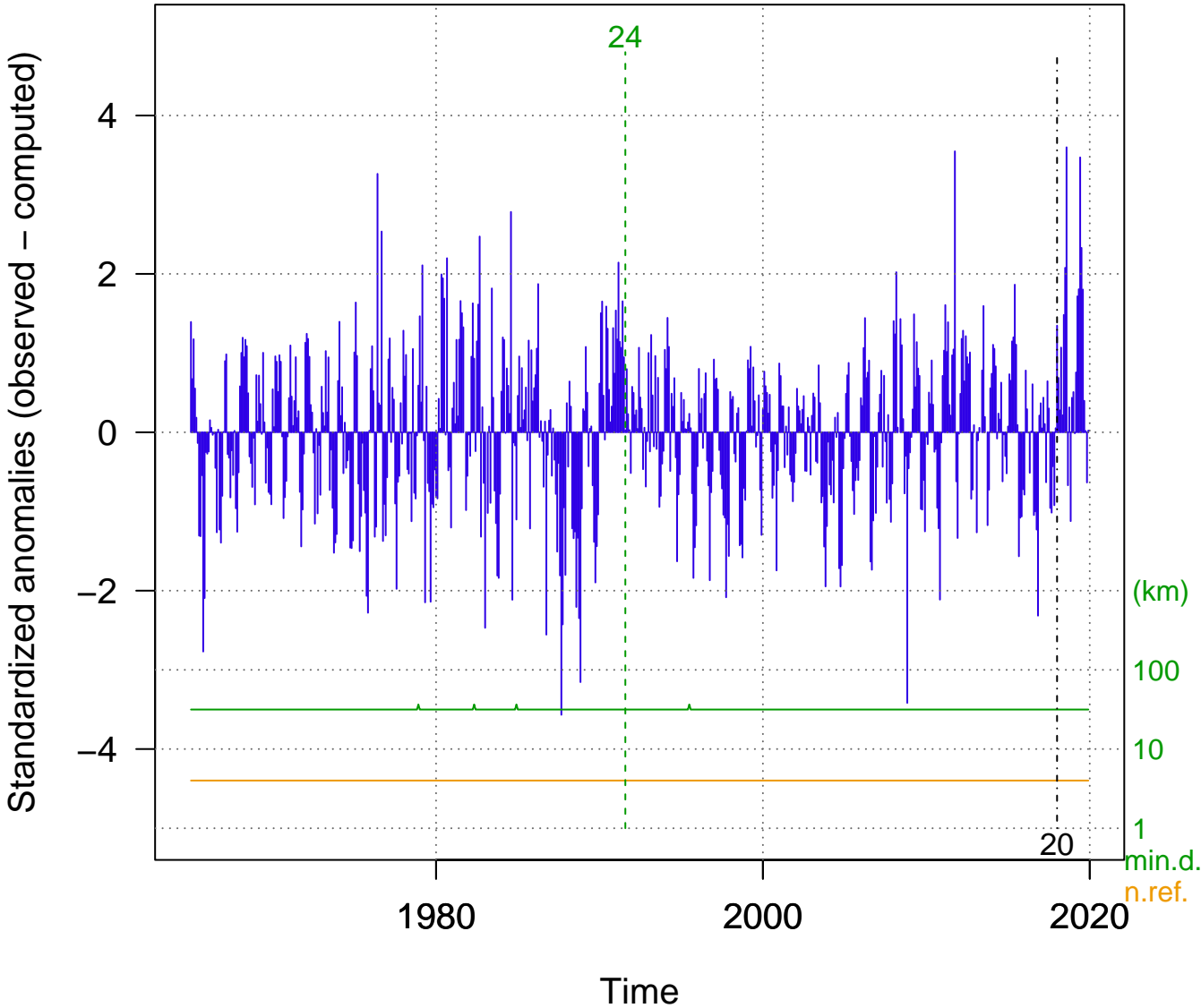
tmin-m 27 (ho00000778-5)

PROGRESO-5

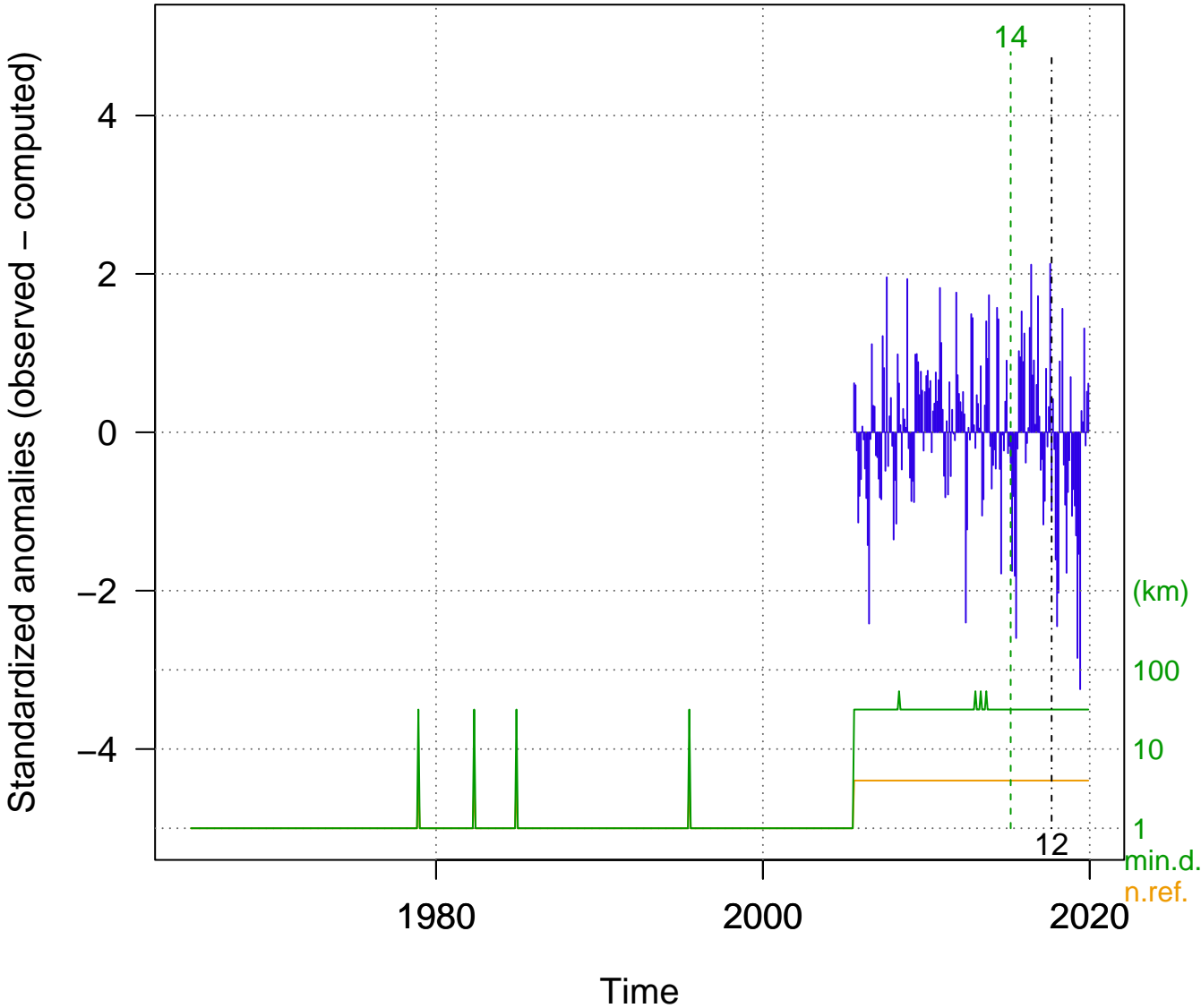


tmin-m 3 (ho00000779)

LAMPA

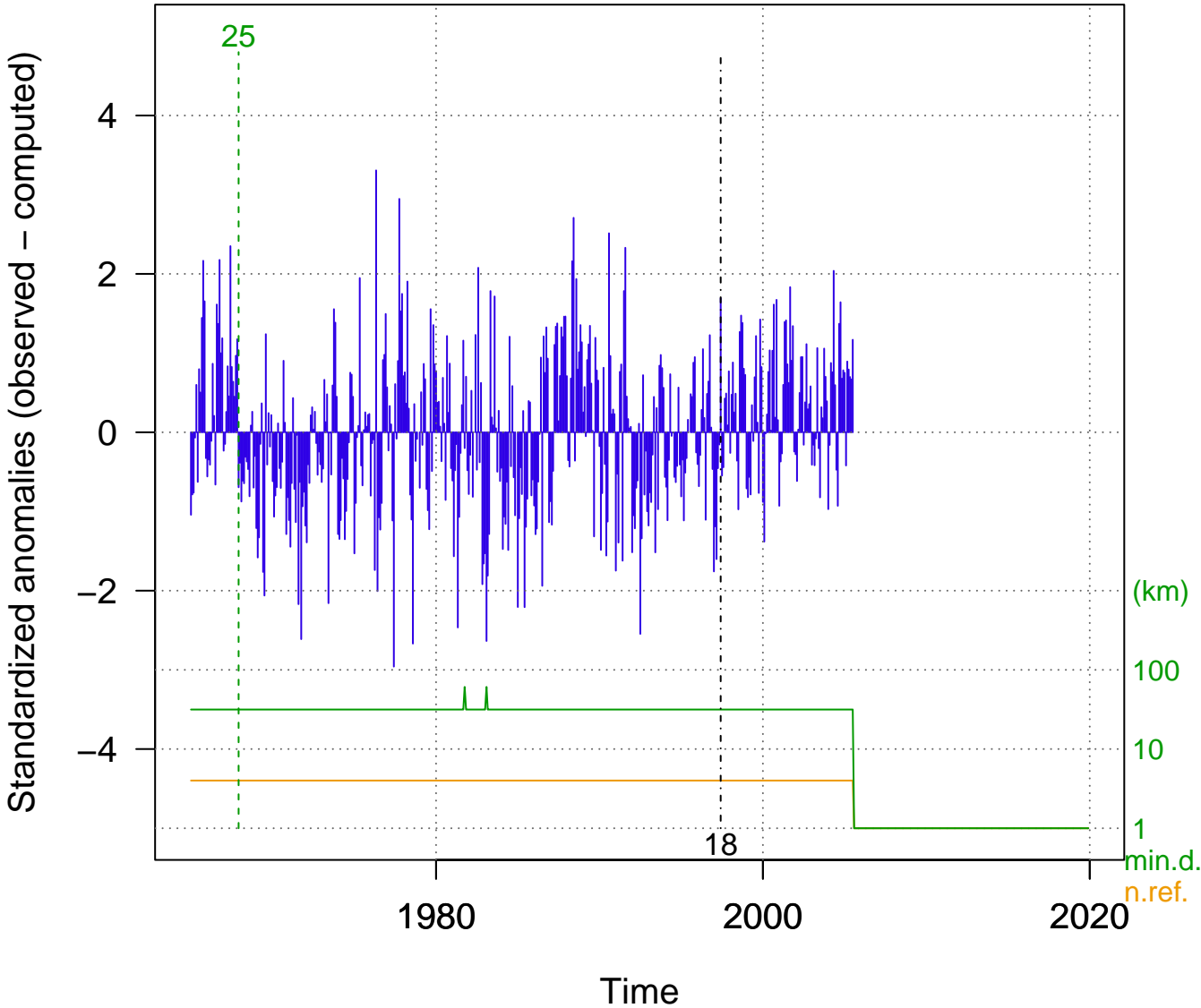


**tmin-m 4 (ho00000780)**  
**CABANILLAS**

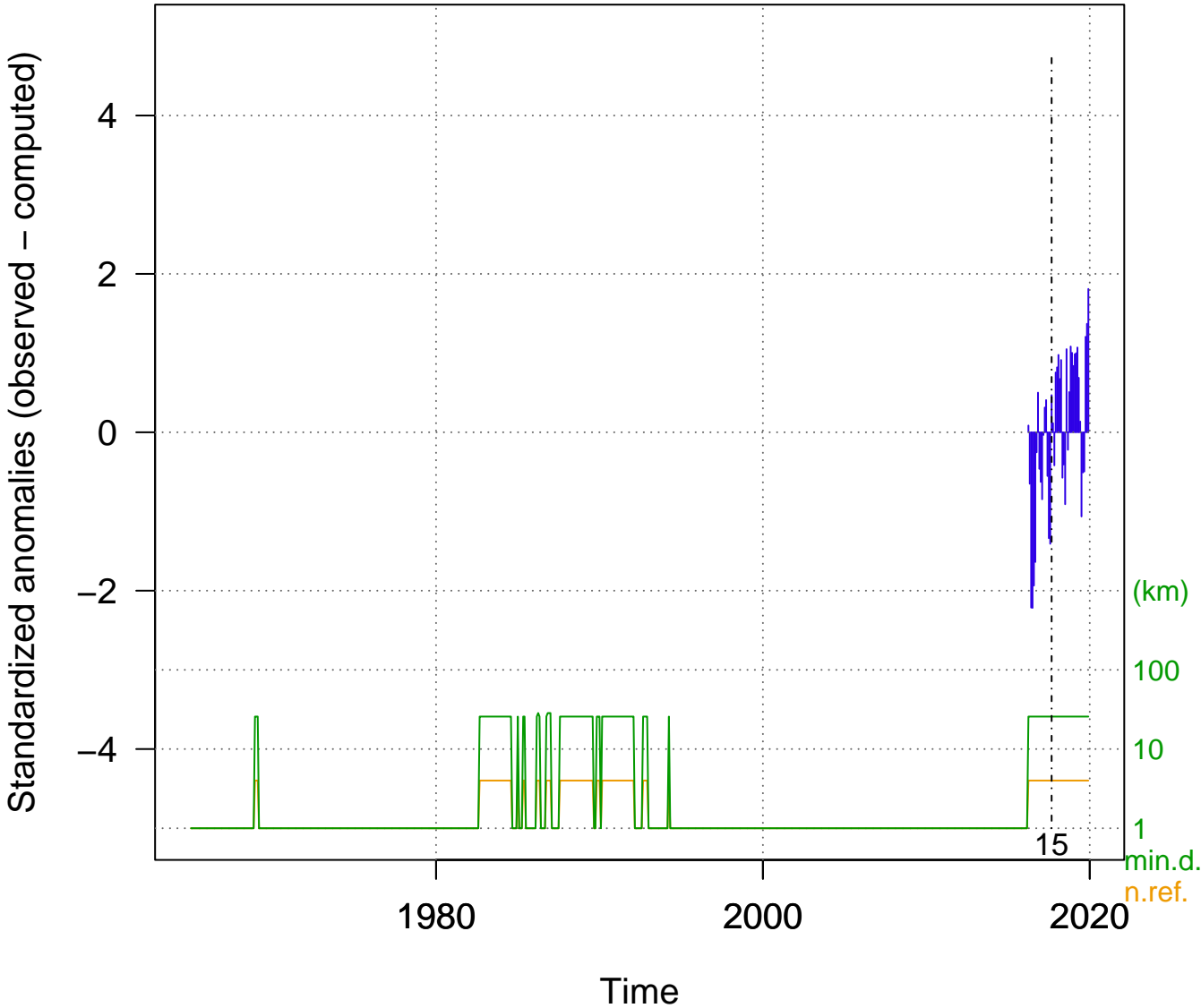


tmin-m 16 (ho00000780-2)

CABANILLAS-2



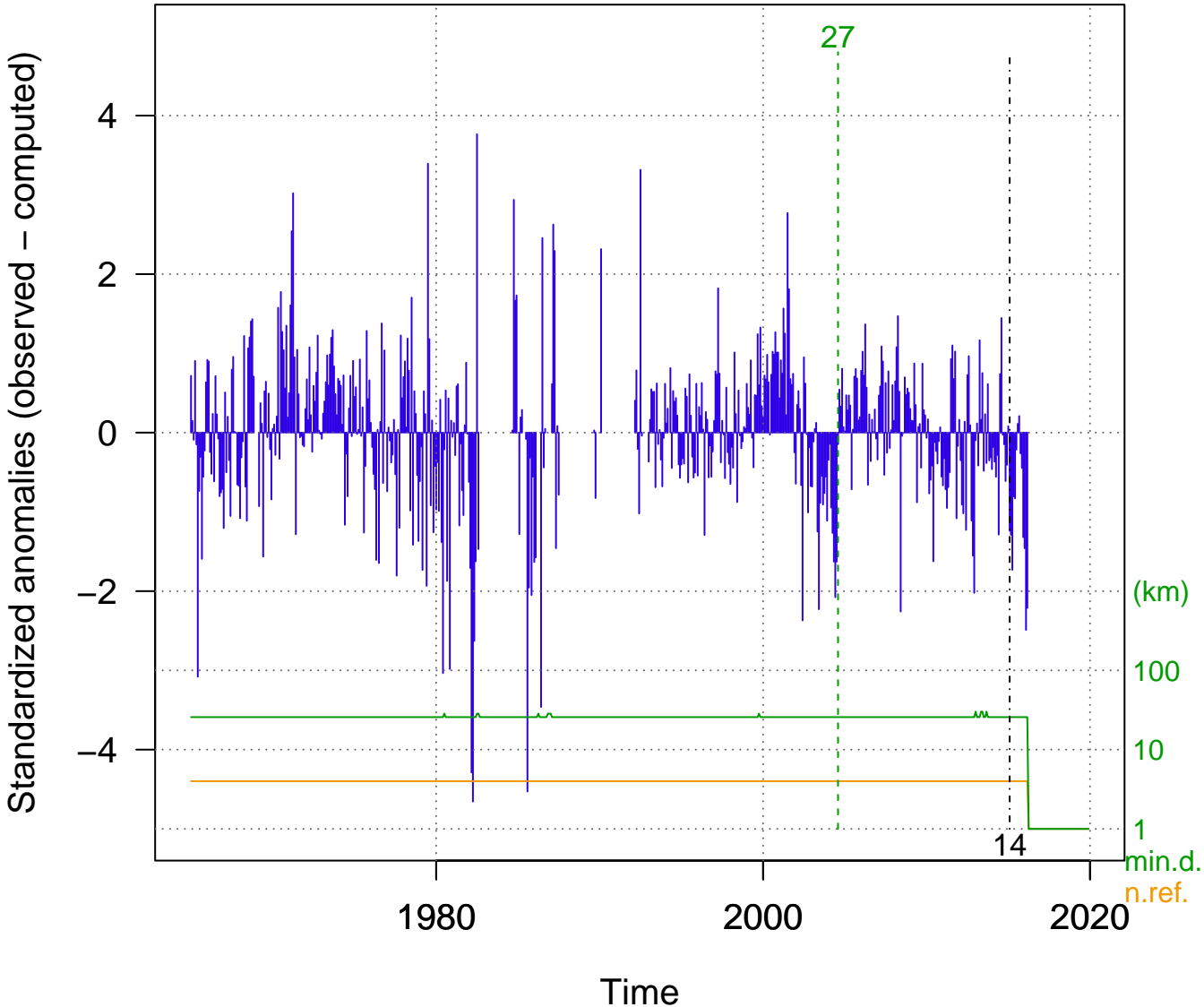
**tmin-m 5 (ho00000781)**  
**AZANGARO**





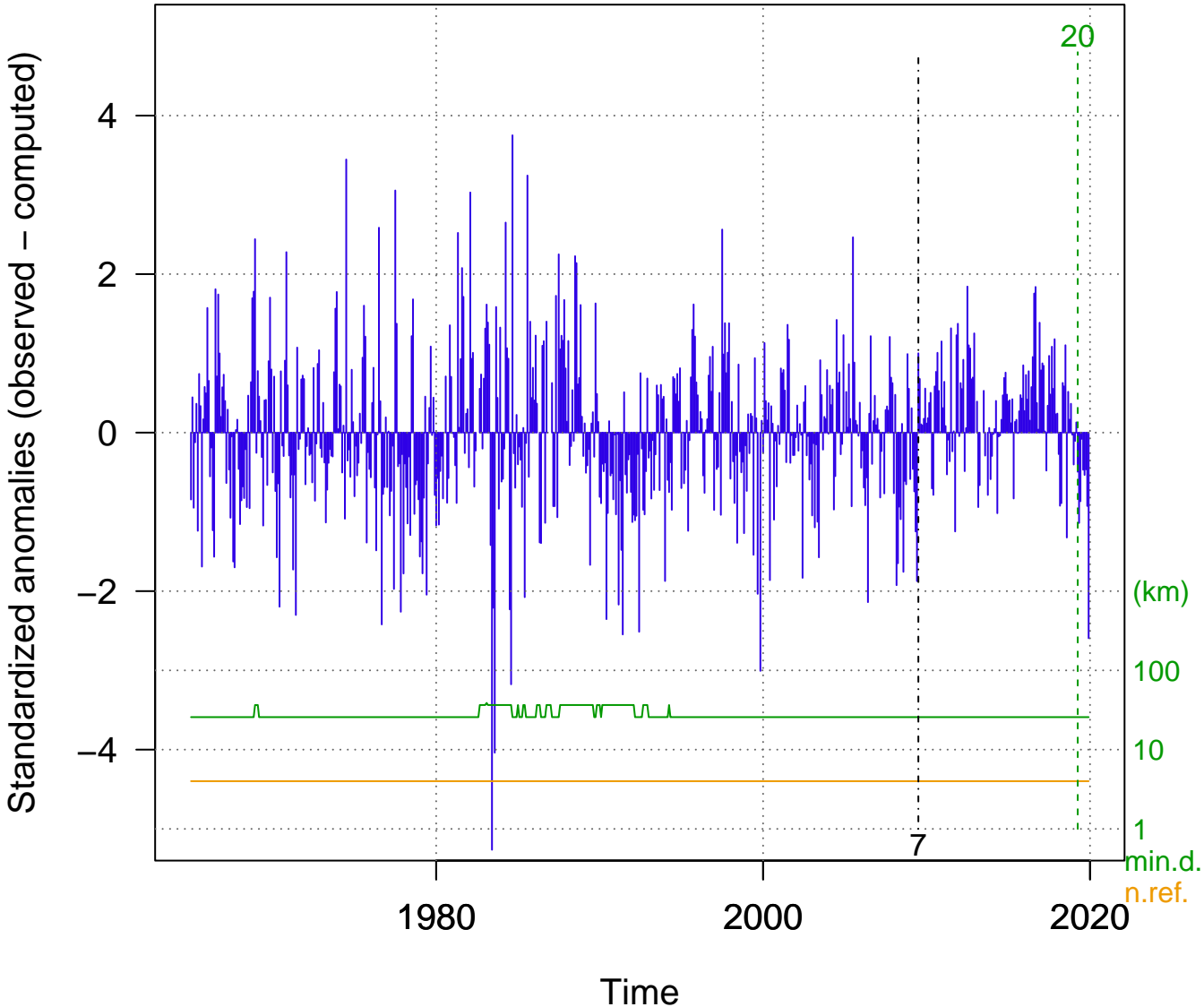
tmin-m 12 (ho00000781-2)

AZANGARO-2



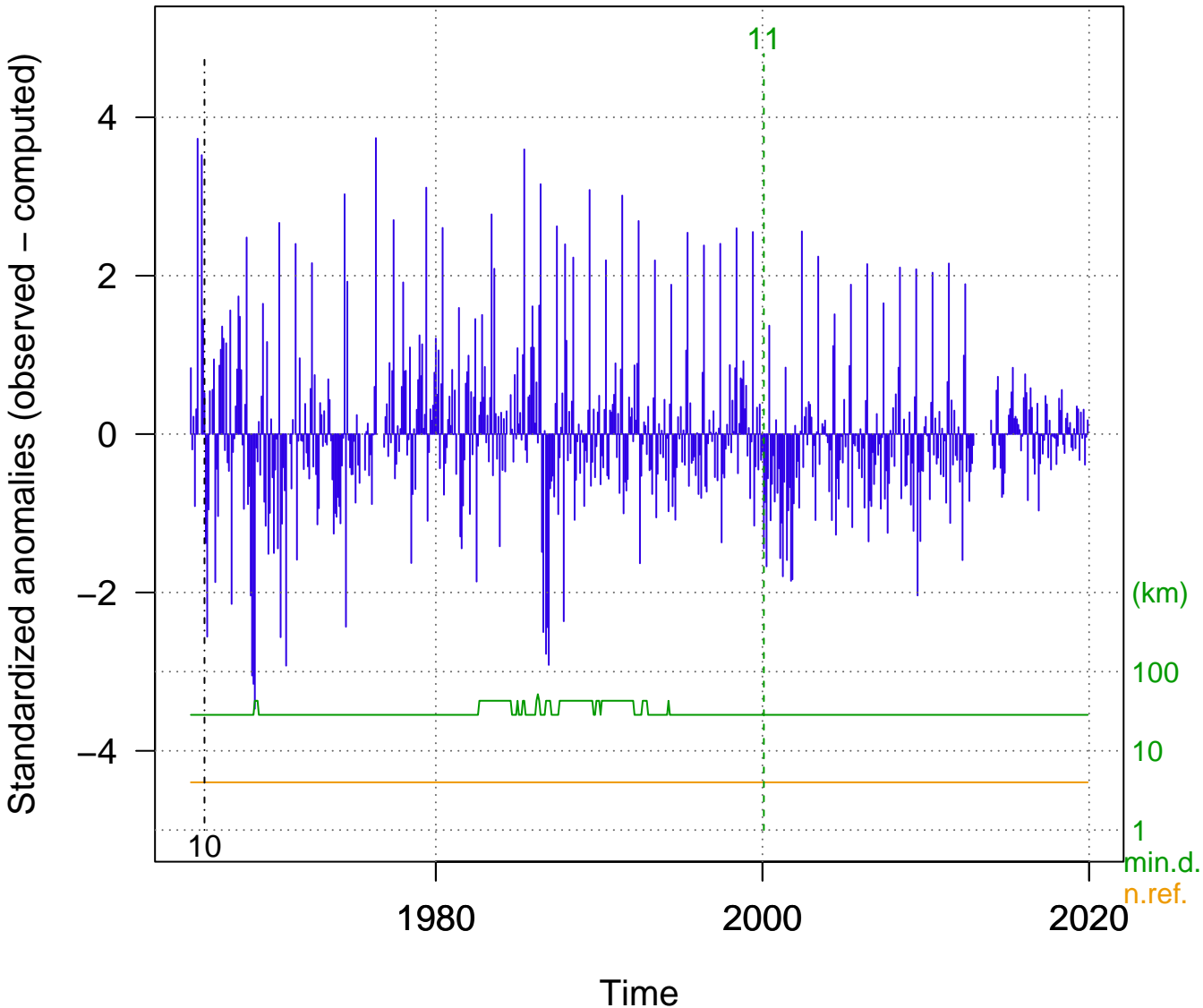
tmin-m 6 (ho00000783)

ARAPA



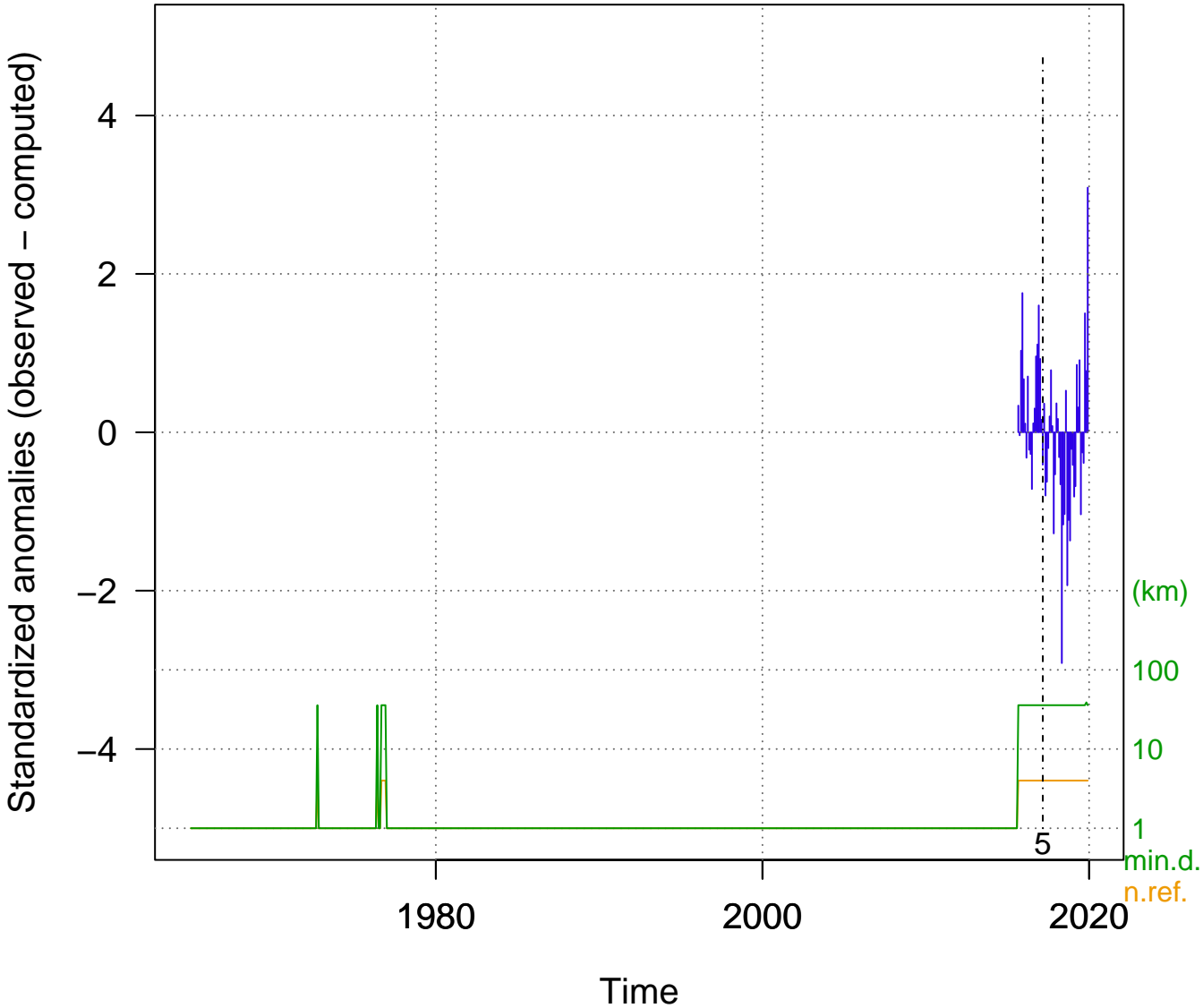
tmin-m 7 (ho00000785)

MUNANI

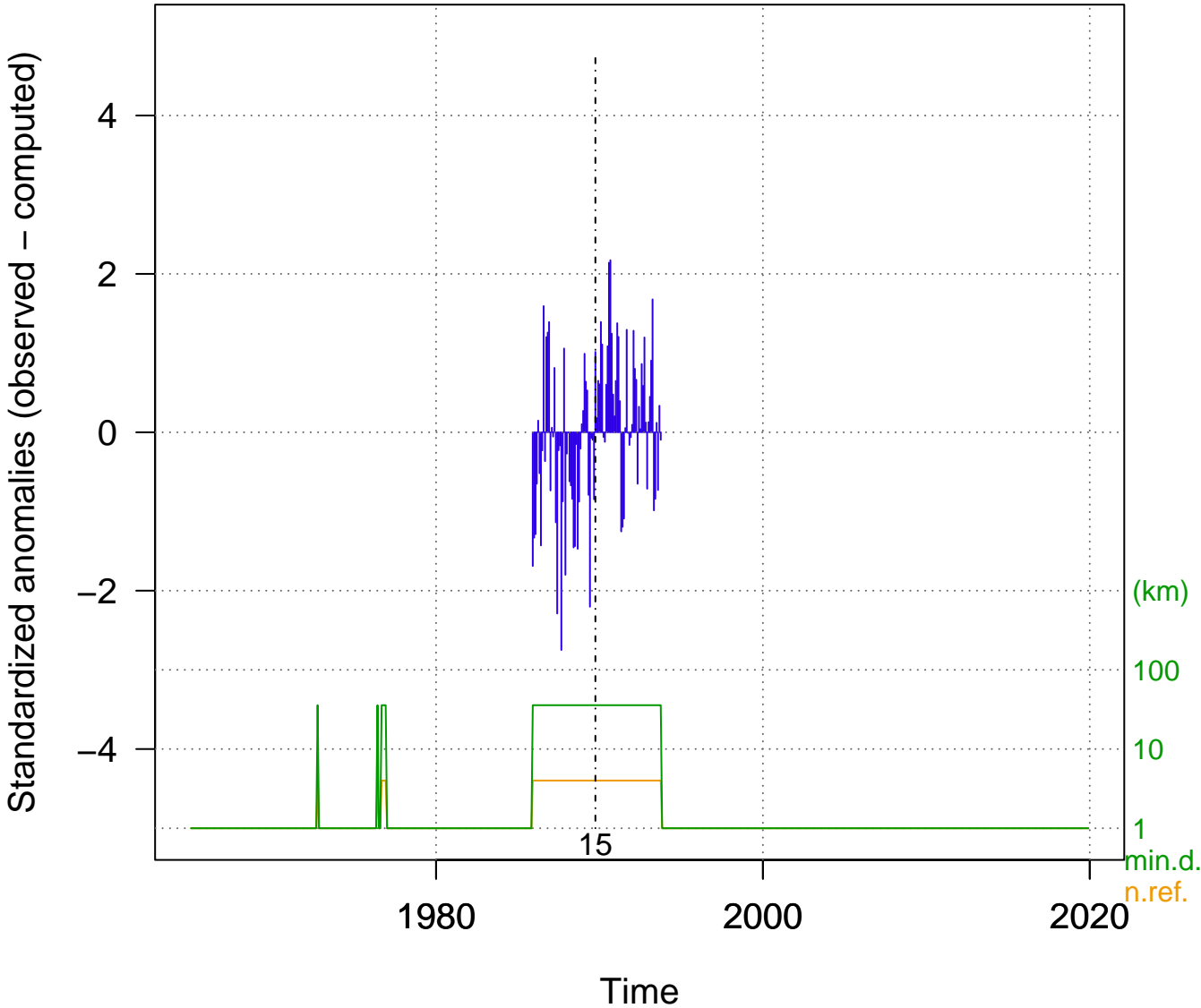


tmin-m 8 (ho00000786)

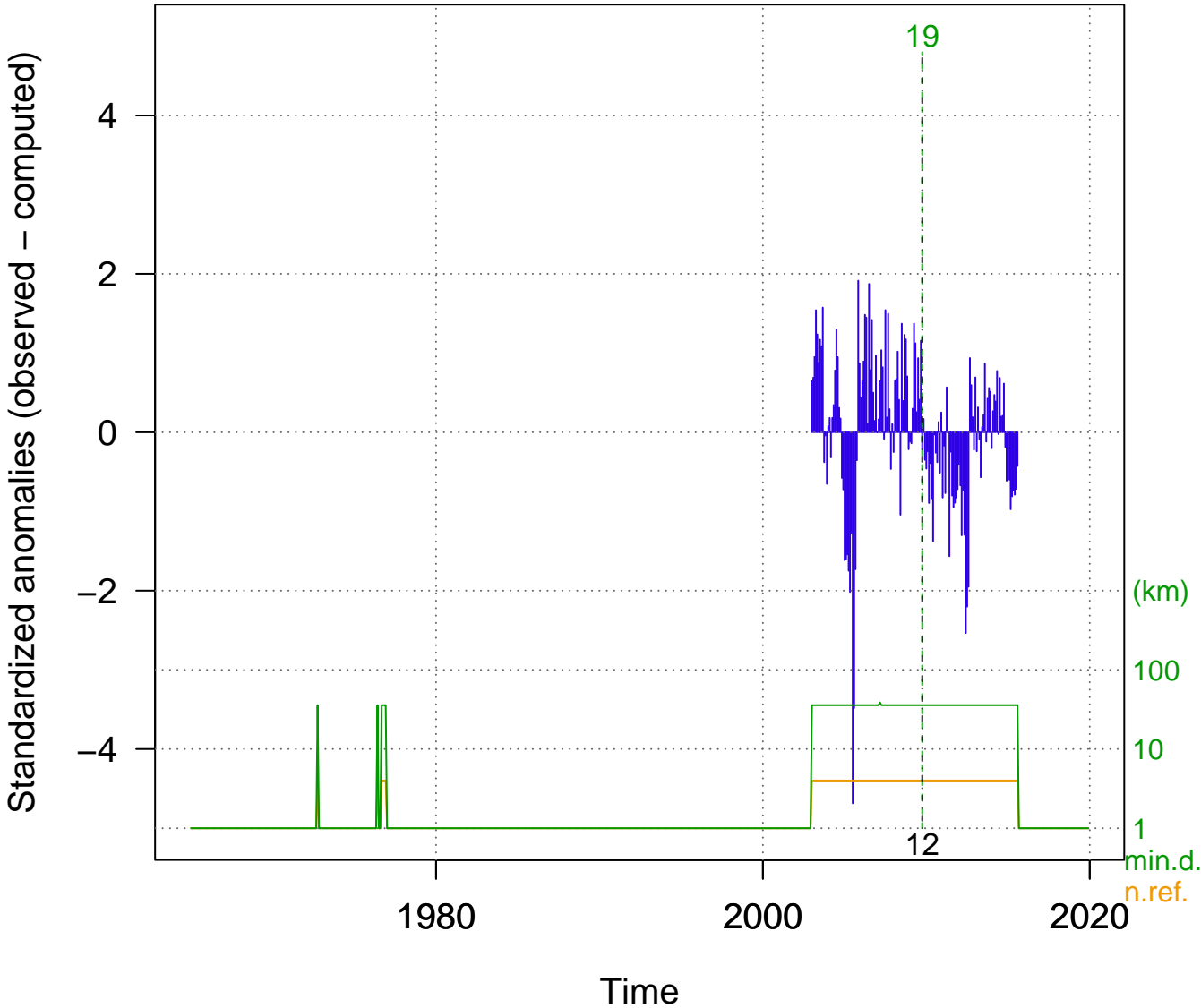
HUANCANE



**tmin-m 11 (ho00000786-2)**  
**HUANCANE-2**

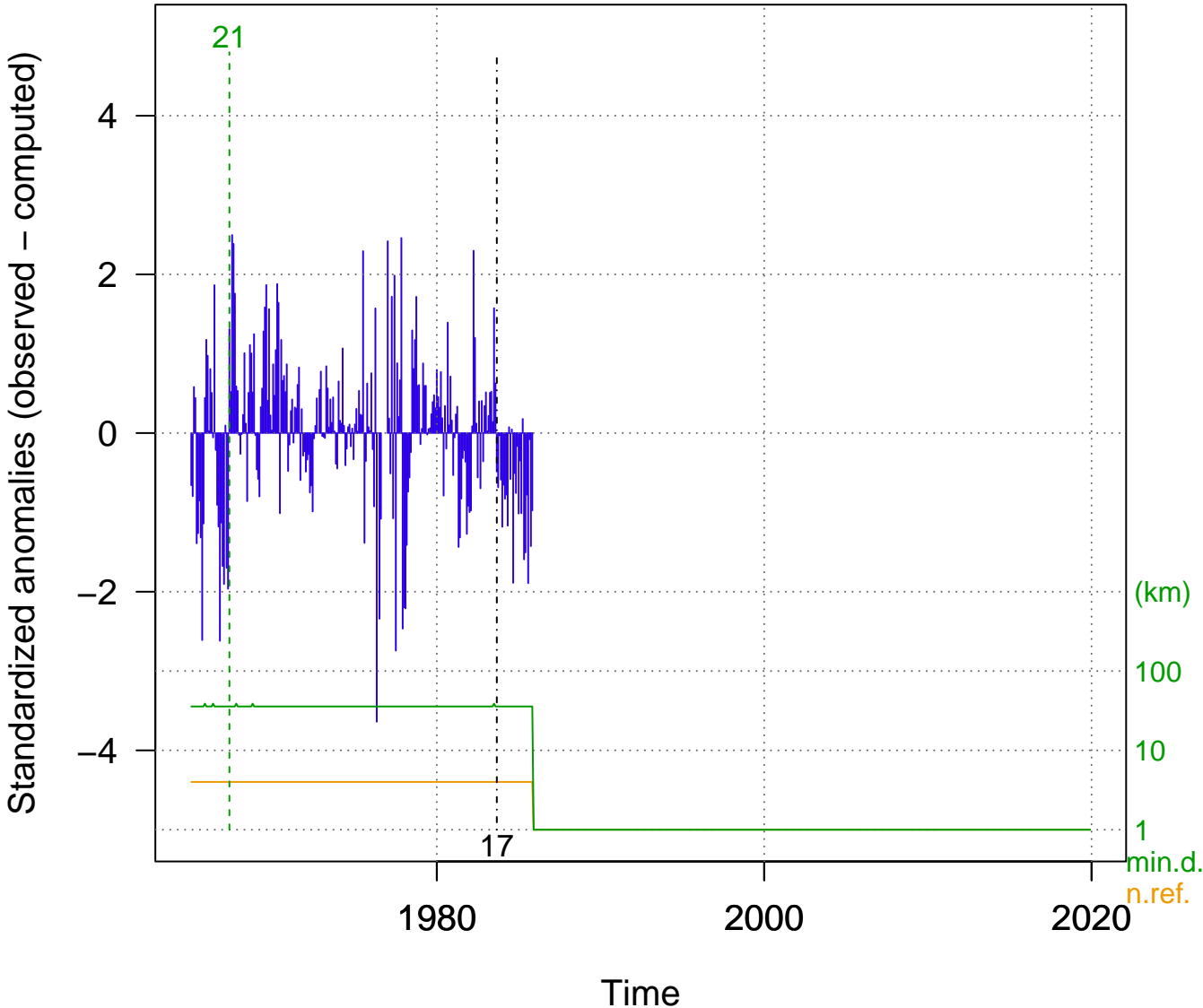


**tmin-m 15 (ho00000786-3)**  
**HUANCANE-3**



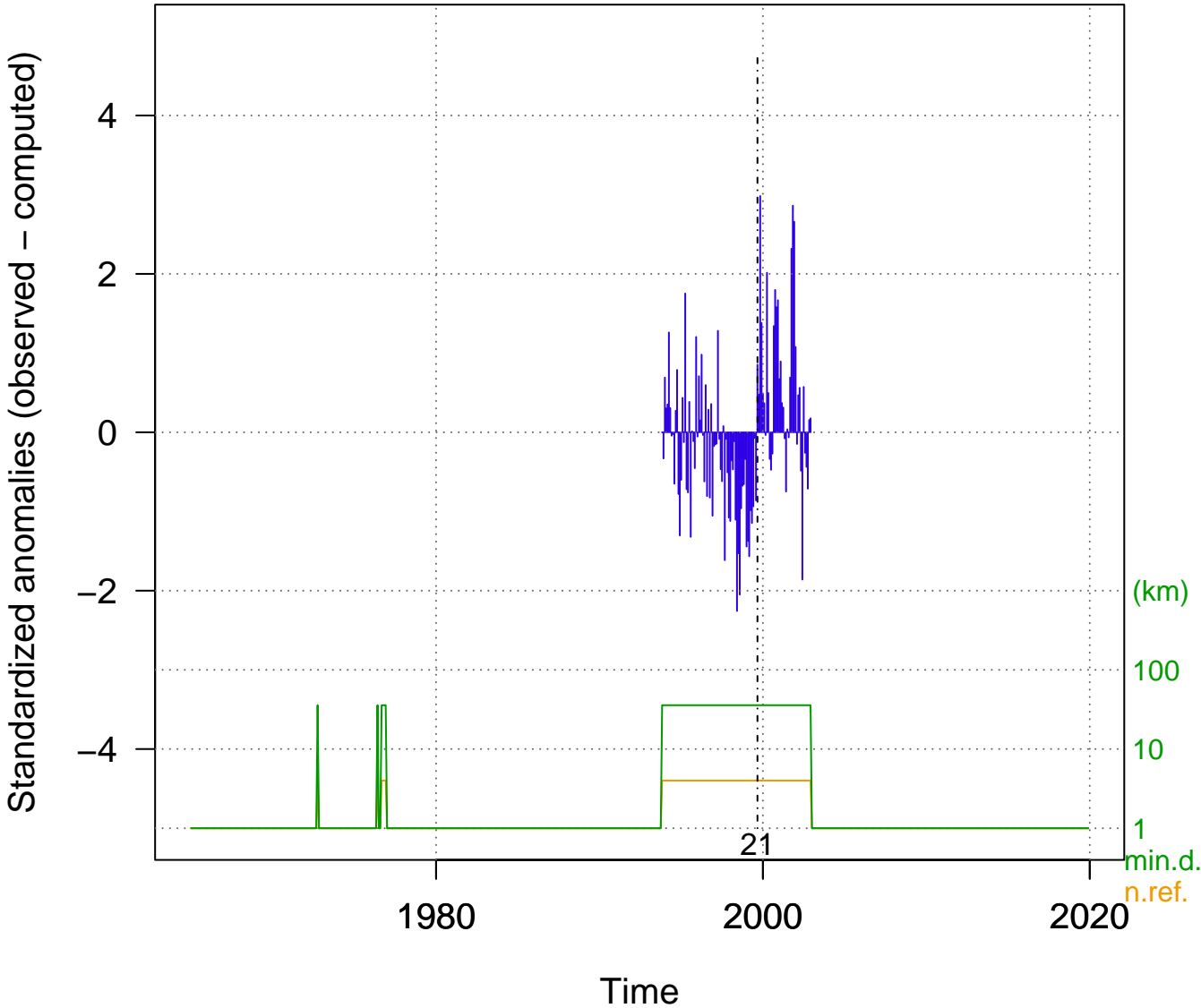
tmin-m 19 (ho00000786-4)

HUANCANE-4



tmin-m 22 (ho00000786-5)

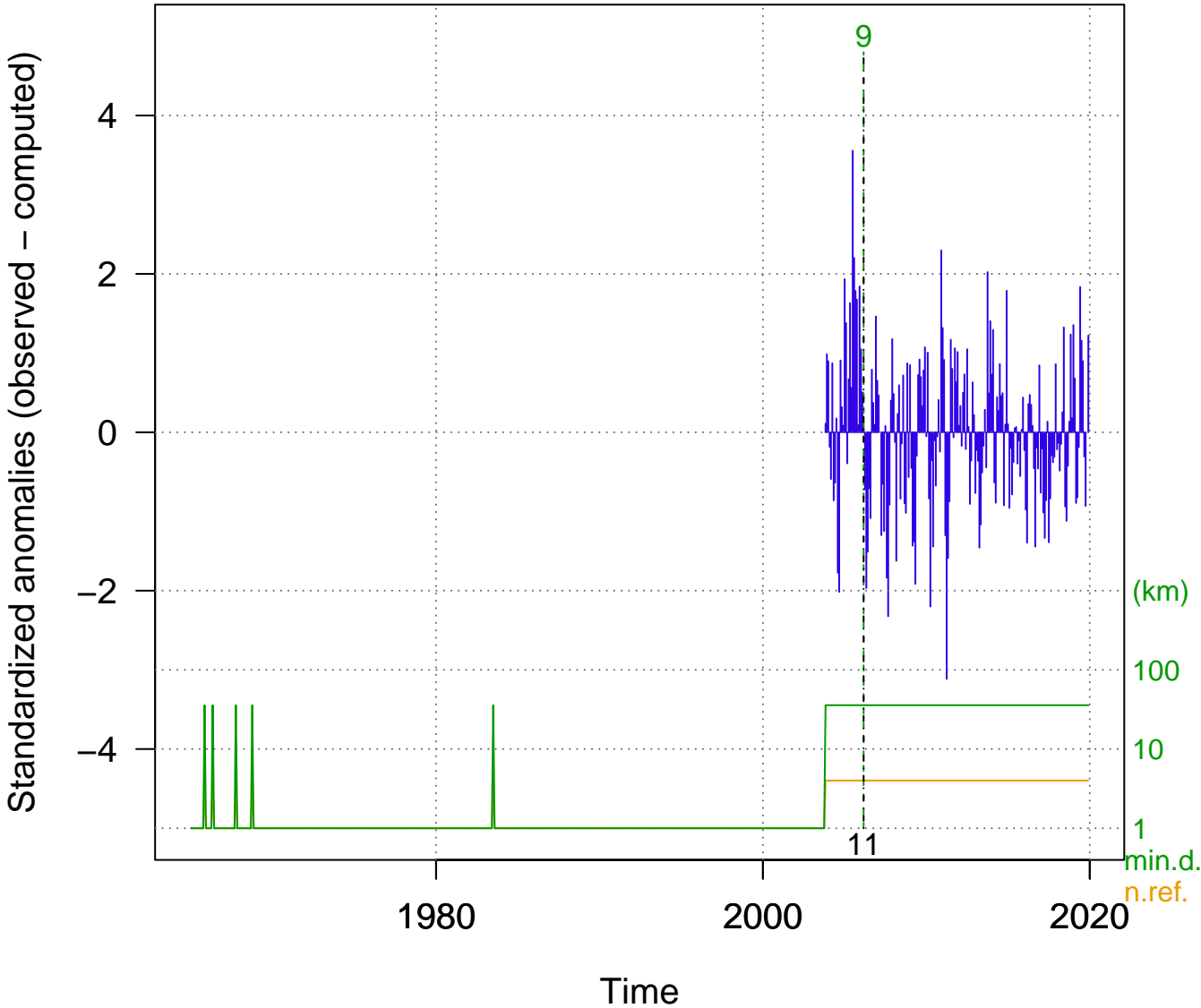
HUANCANE-5





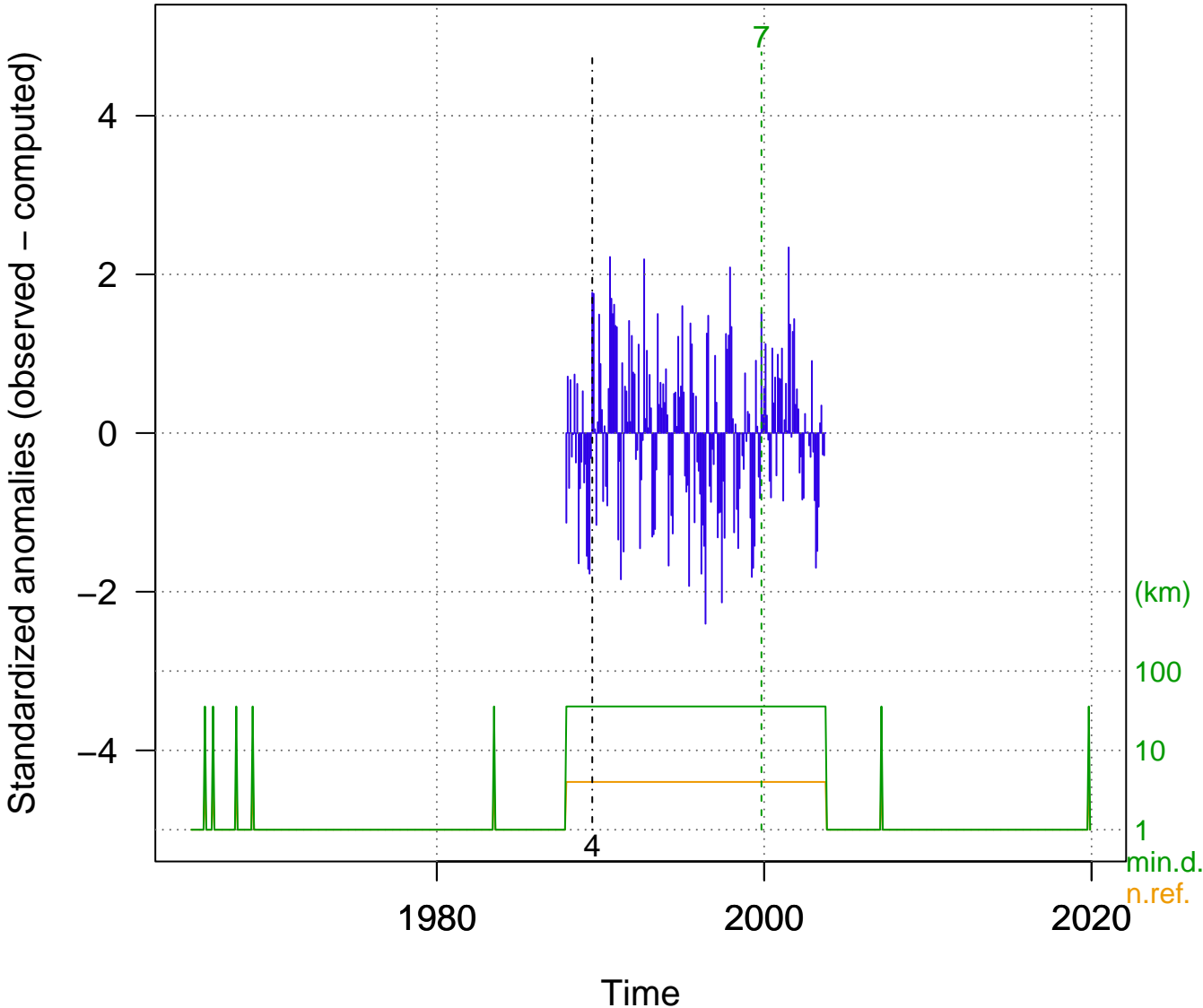
tmin-m 9 (ho00000787)

HUARAYAMOHO



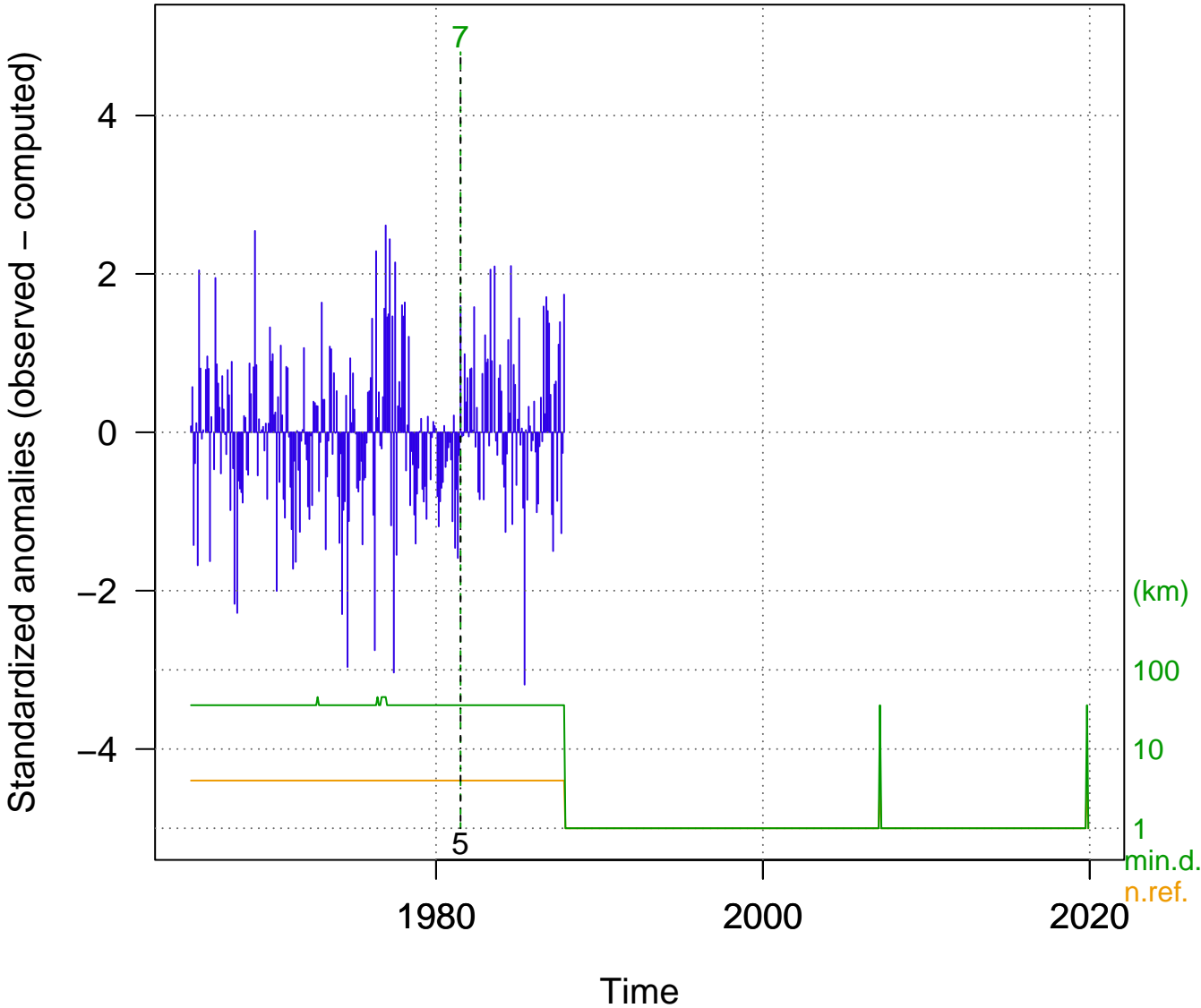
tmin-m 14 (ho00000787-2)

HUARAYAMOHO-2



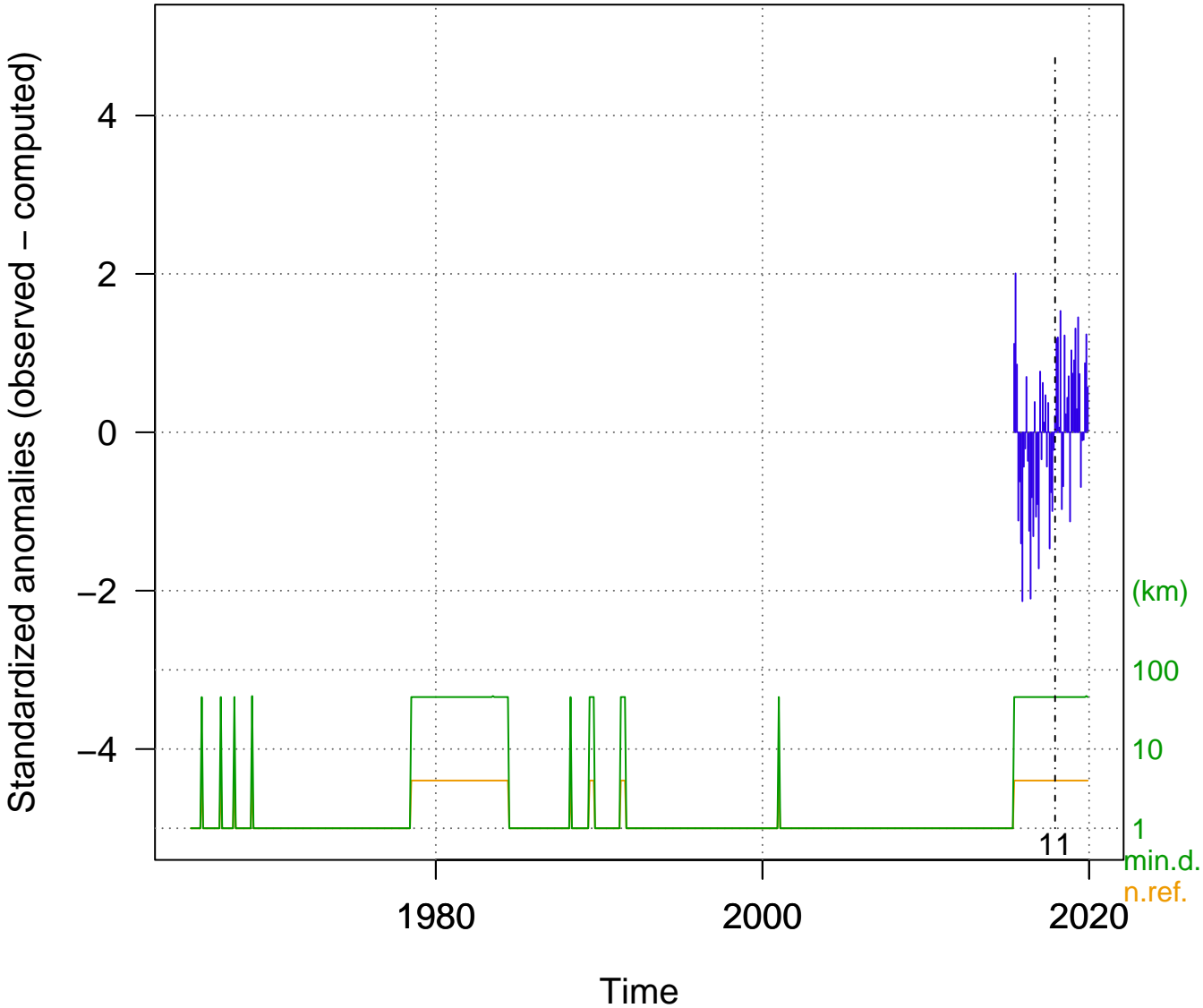
tmin-m 28 (ho00000787-3)

HUARAYAMOHO-3

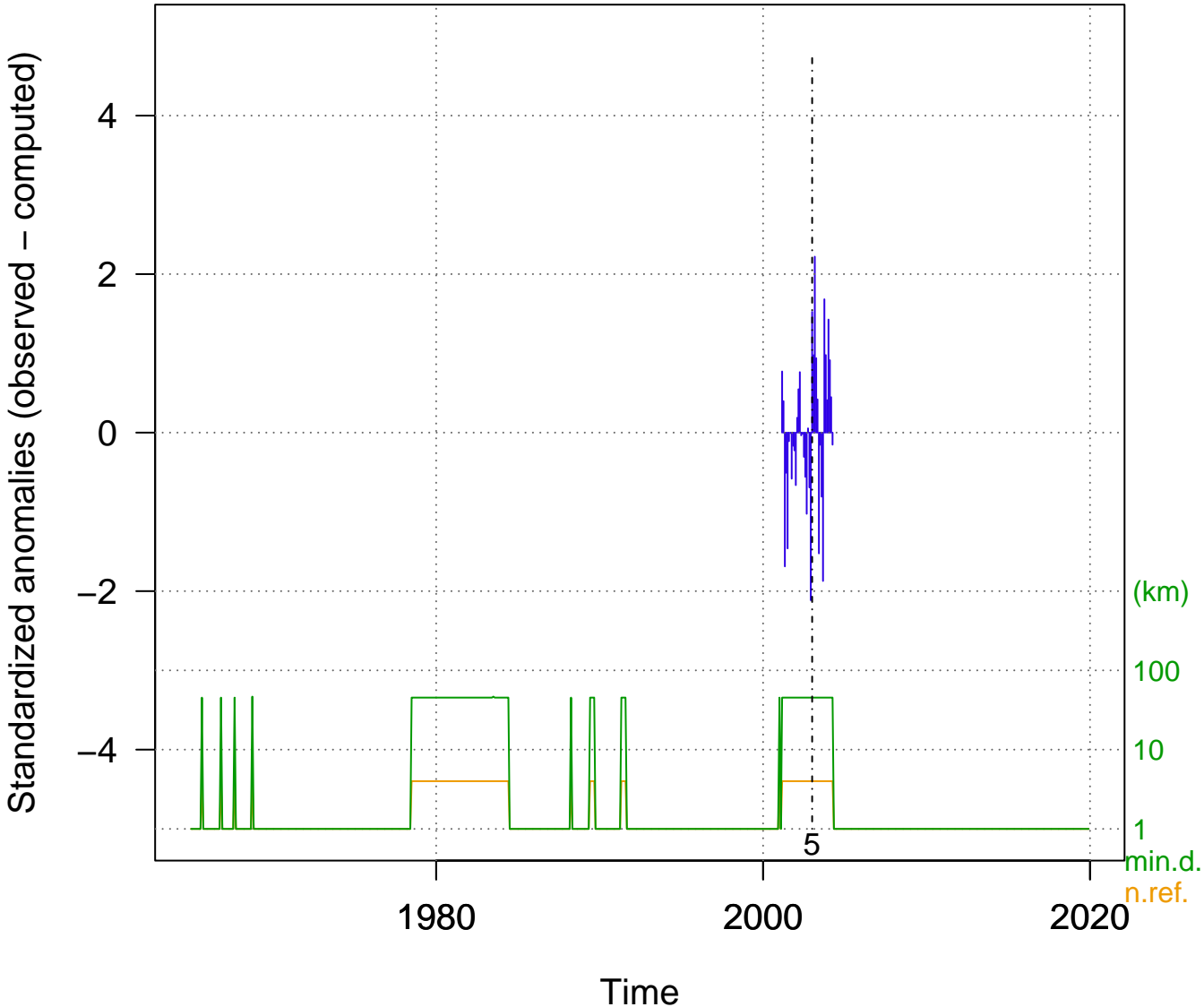


tmin-m 10 (ho00000788)

CAPACHICA

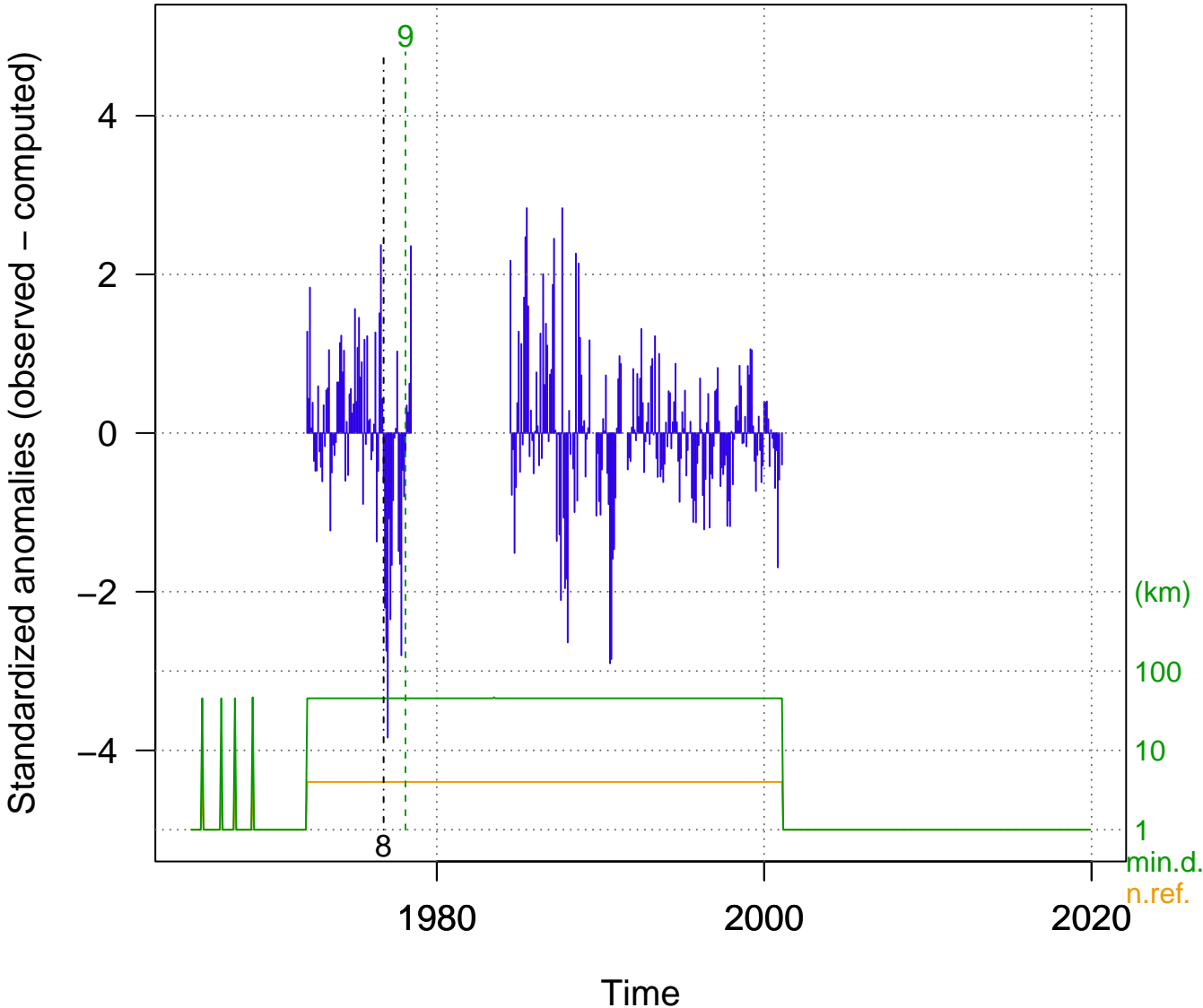


# CAPACHICA-2



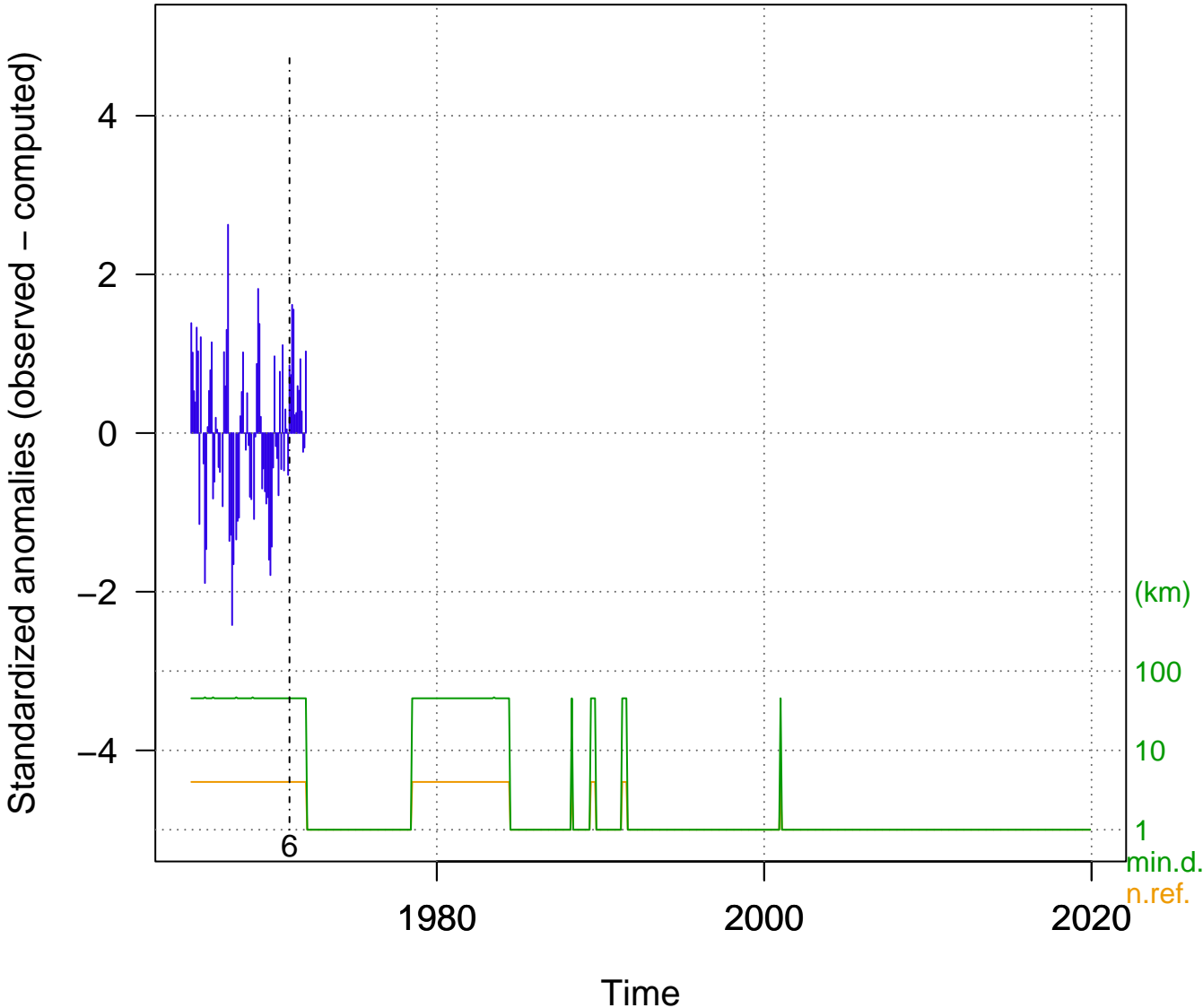
tmin-m 20 (ho00000788-3)

CAPACHICA-3



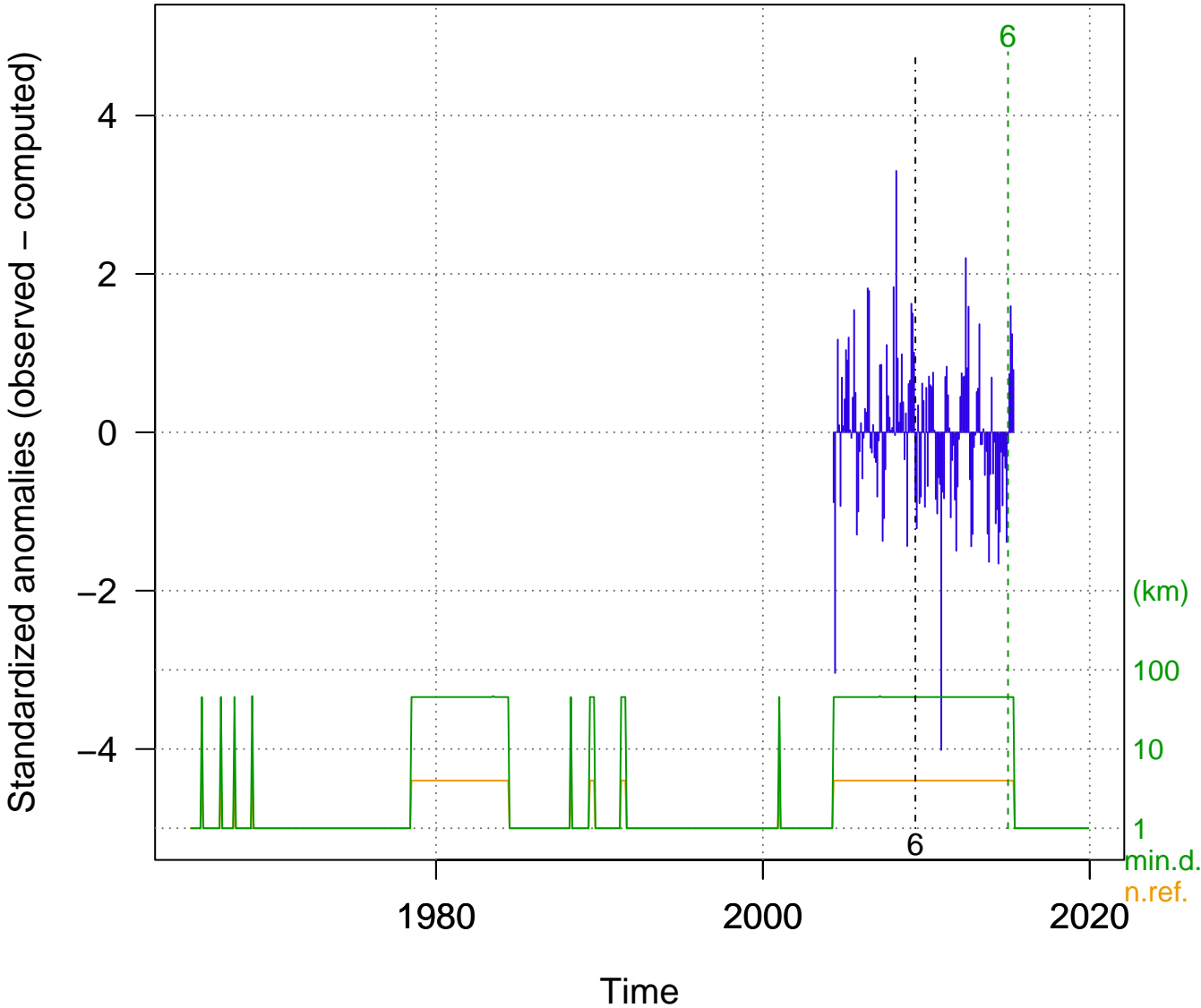
tmin-m 25 (ho00000788-4)

CAPACHICA-4



tmin-m 26 (ho00000788-5)

CAPACHICA-5

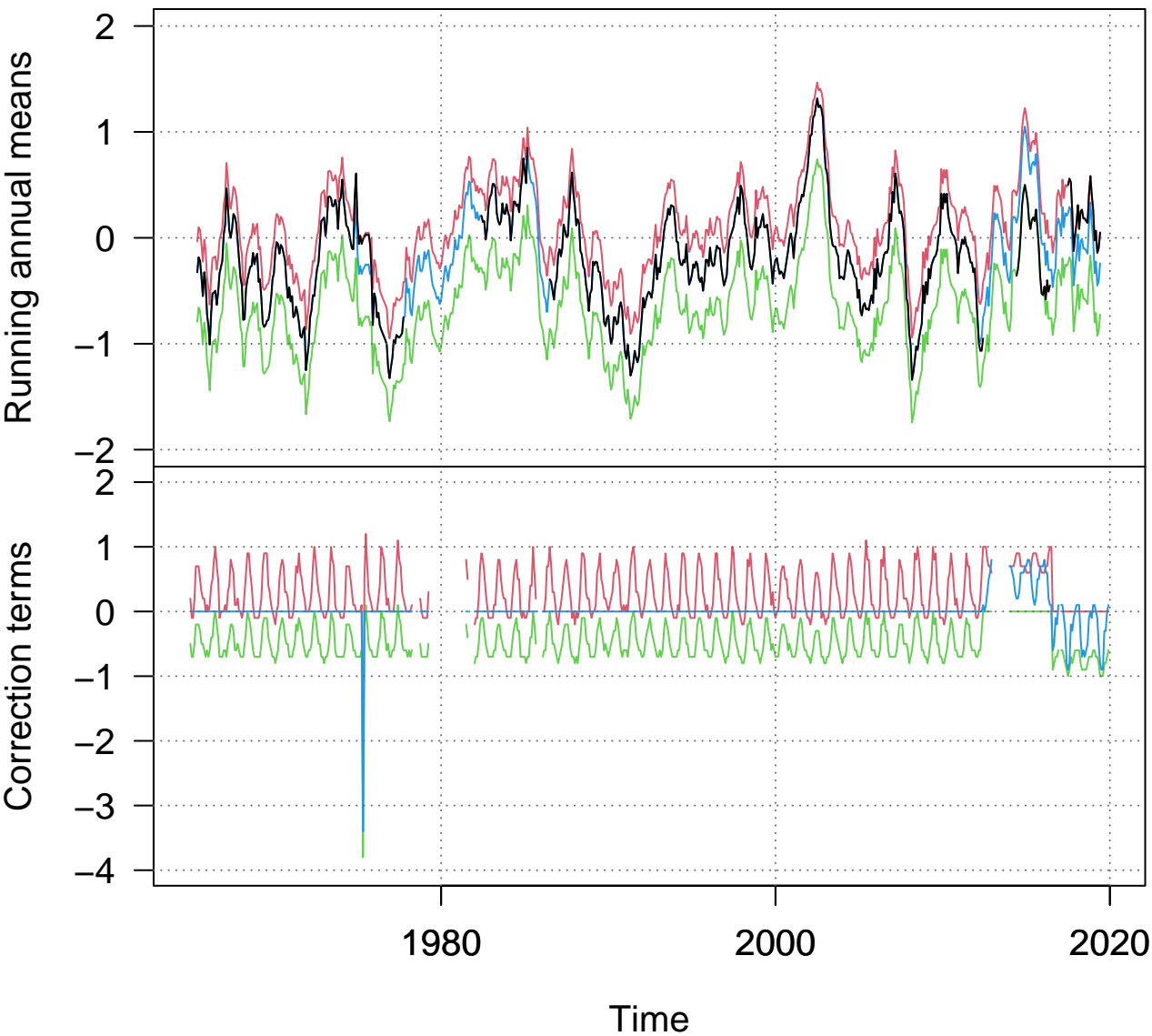




# Final graphics

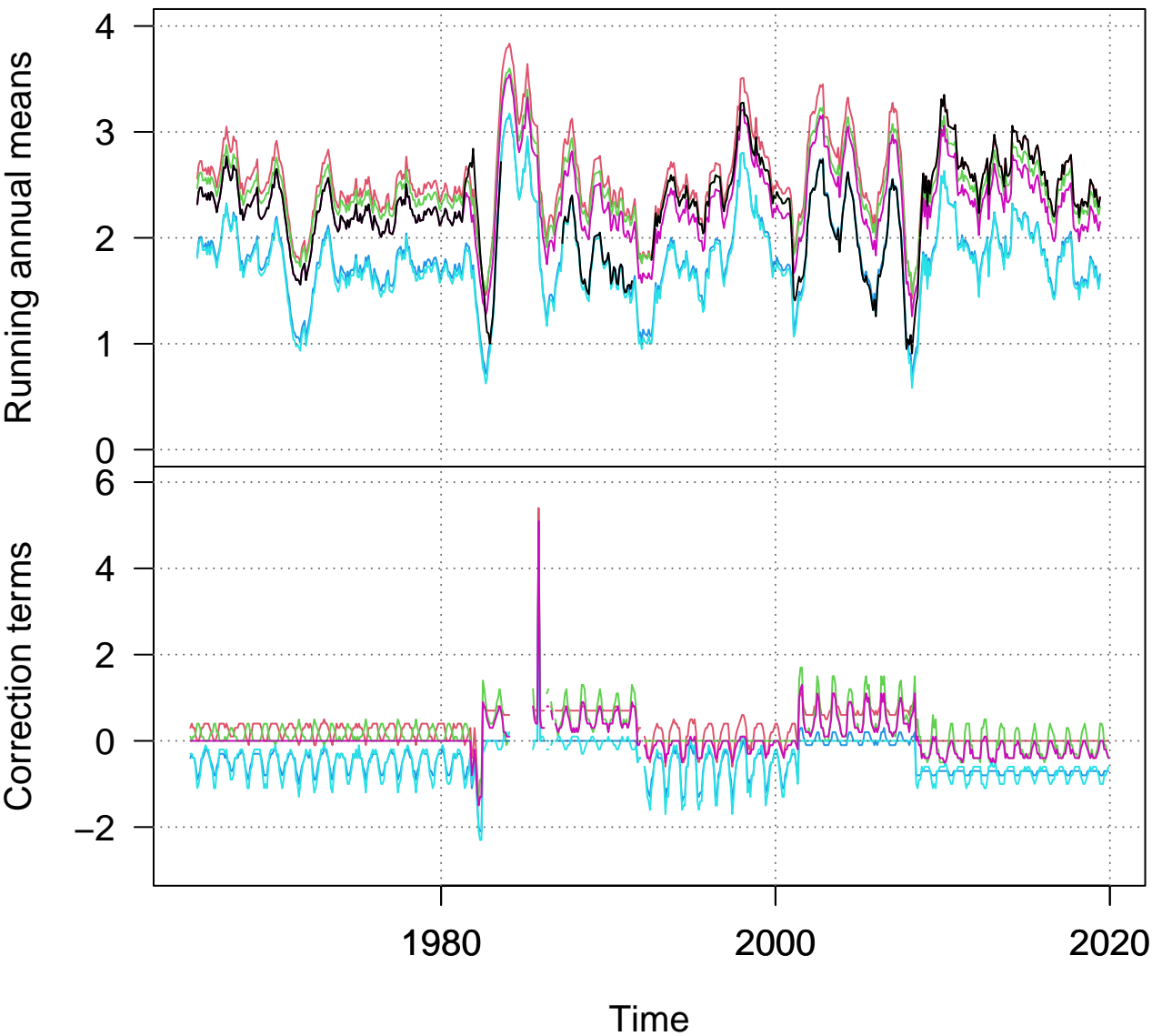
Adjusted series and  
applied corrections

**tmin-m 1 (ho00000776)**  
**AYAVIRI**



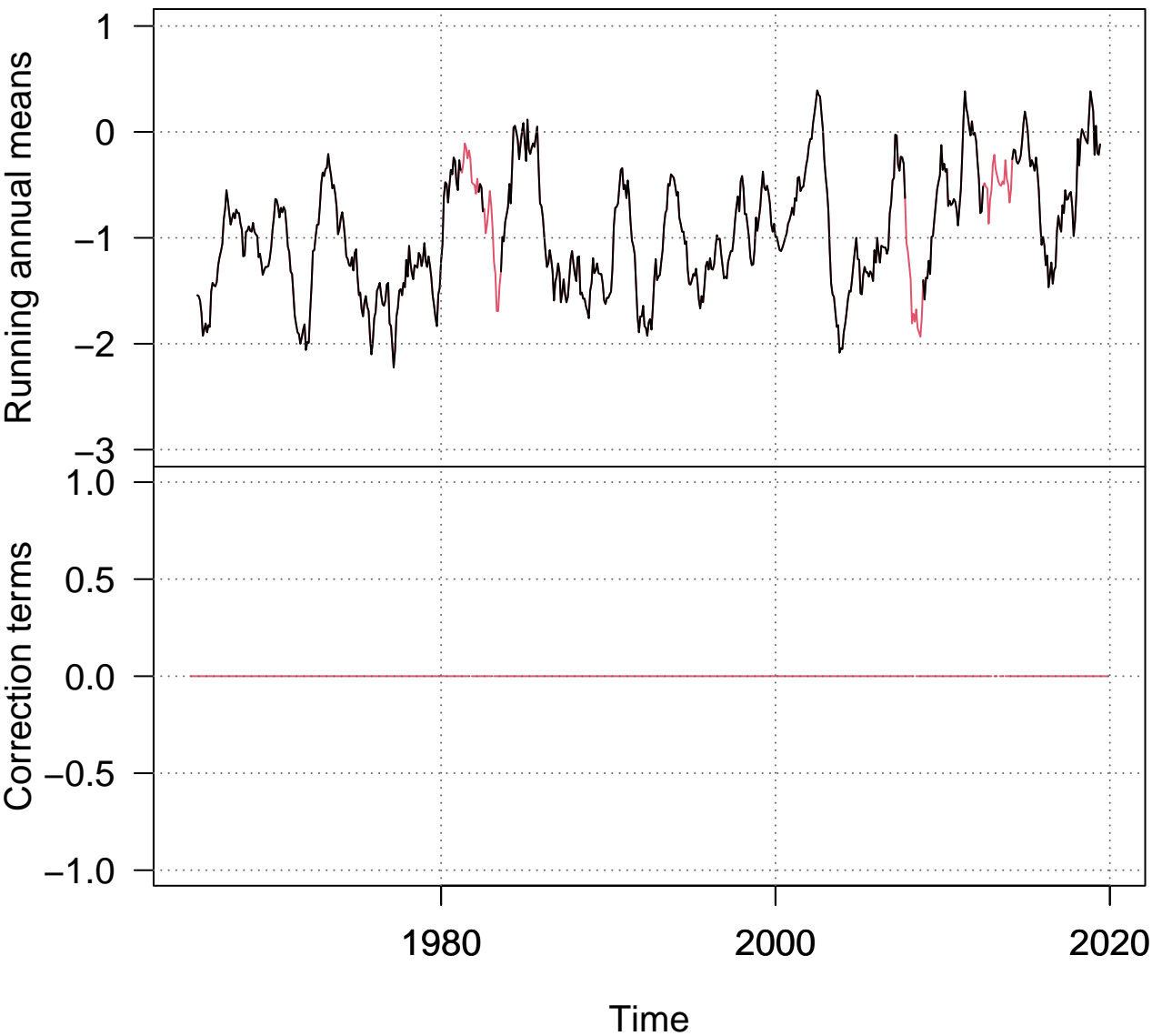
**tmin-m 2 (ho00000778)**

**PROGRESO**



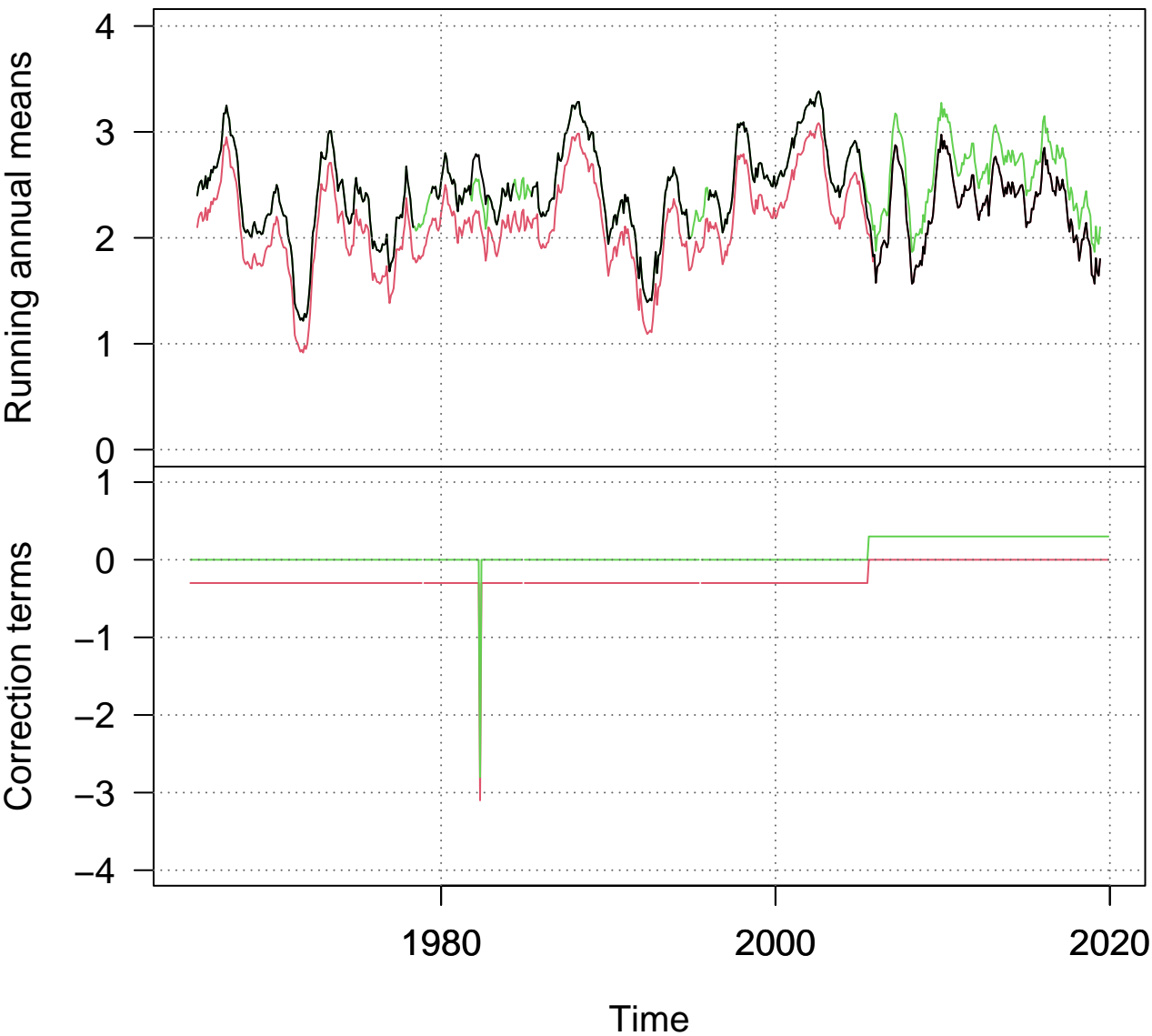
**tmin-m 3 (ho00000779)**

**LAMPA**



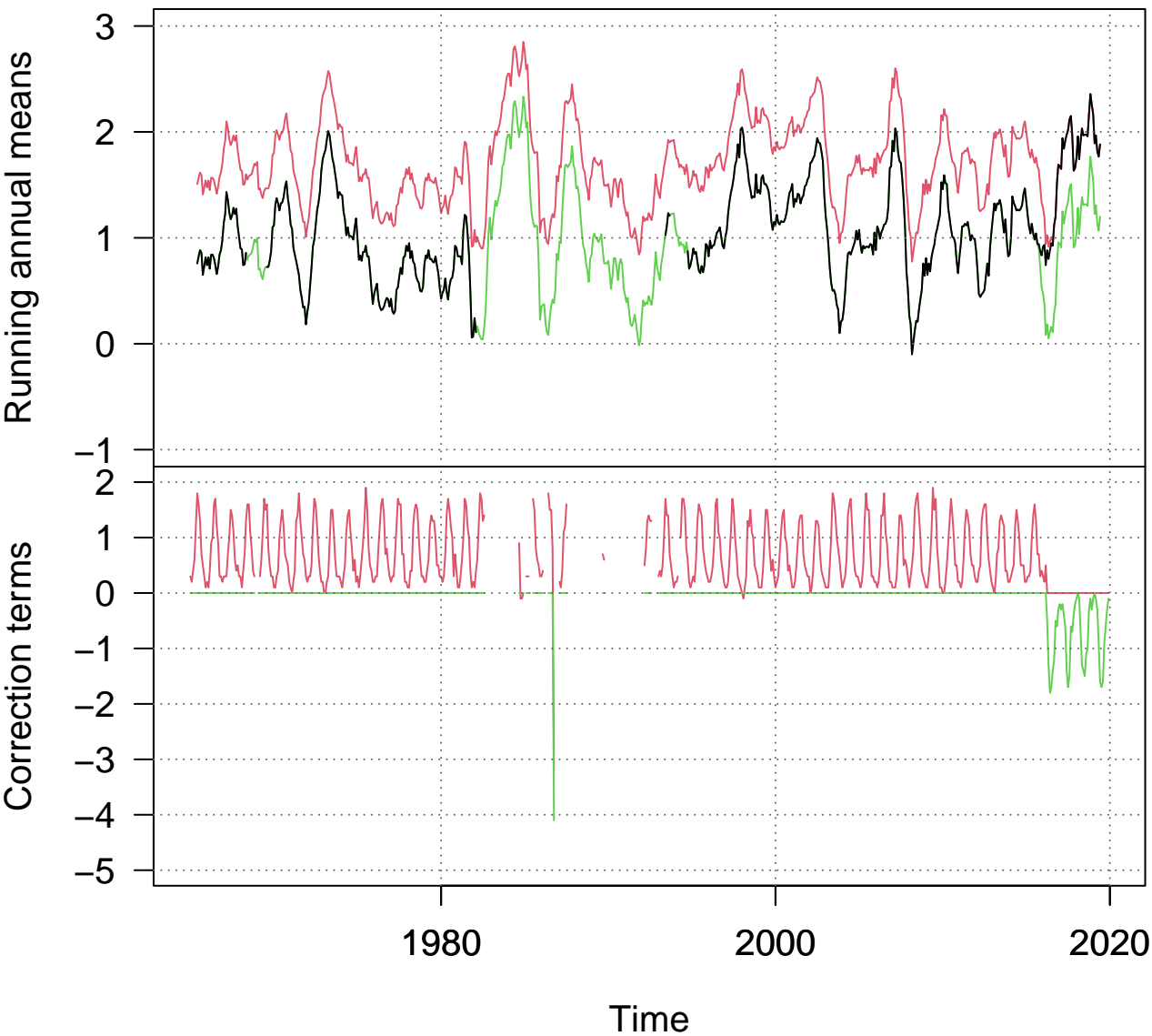
**tmin-m 4 (ho00000780)**

**CABANILLAS**



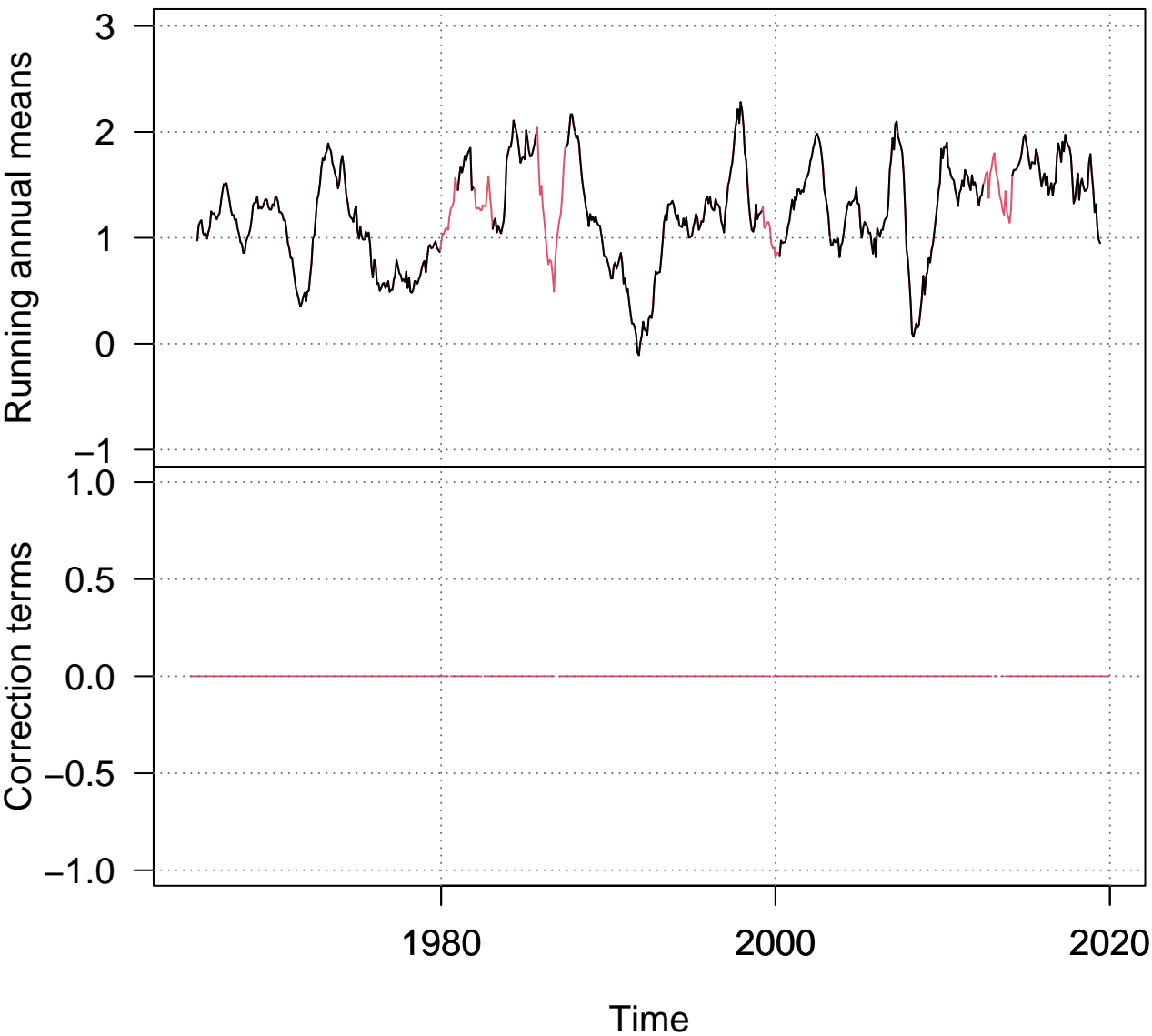
**tmin-m 5 (ho00000781)**

**AZANGARO**



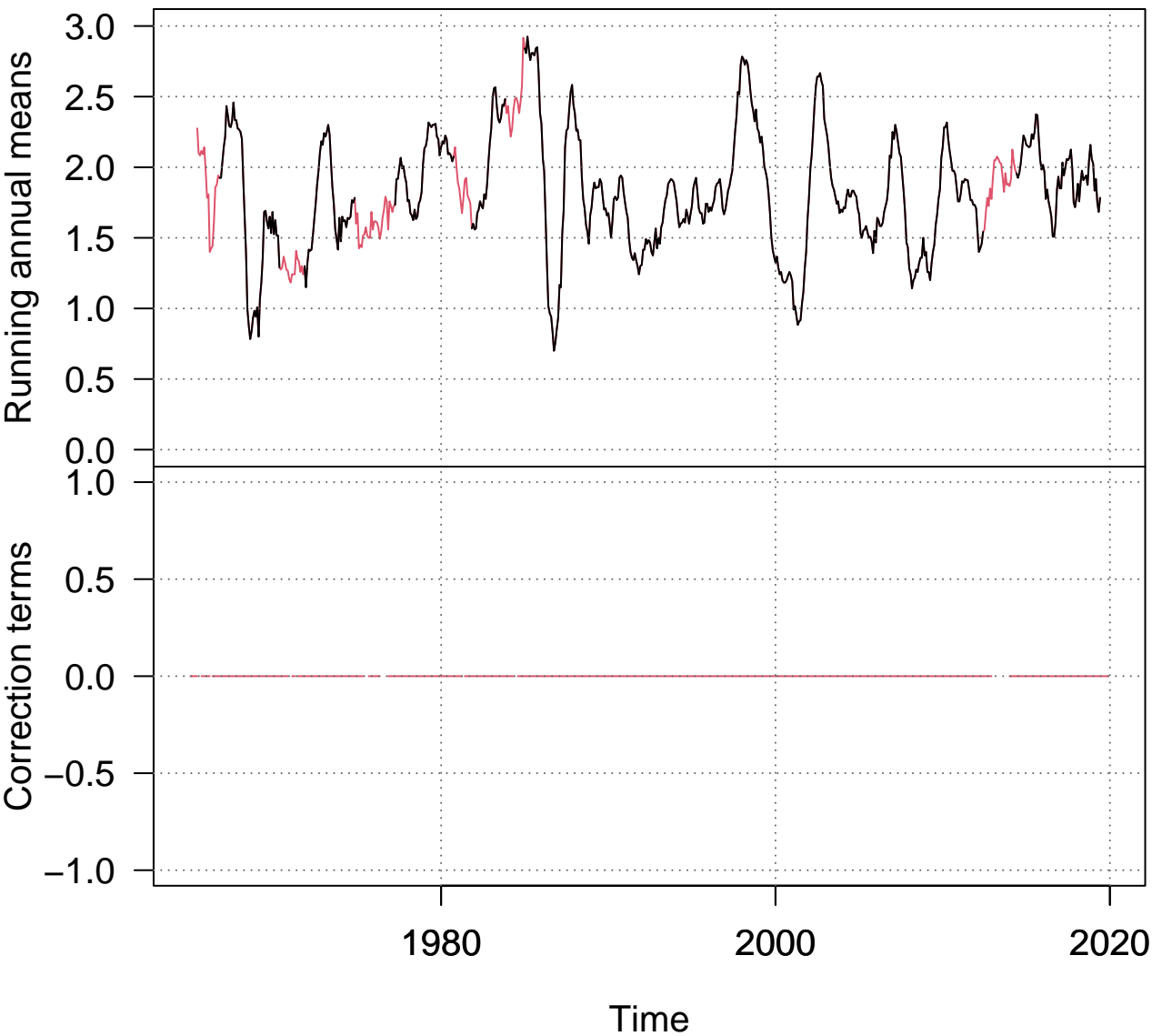
**tmin-m 6 (ho00000783)**

**ARAPA**



**tmin-m 7 (ho00000785)**

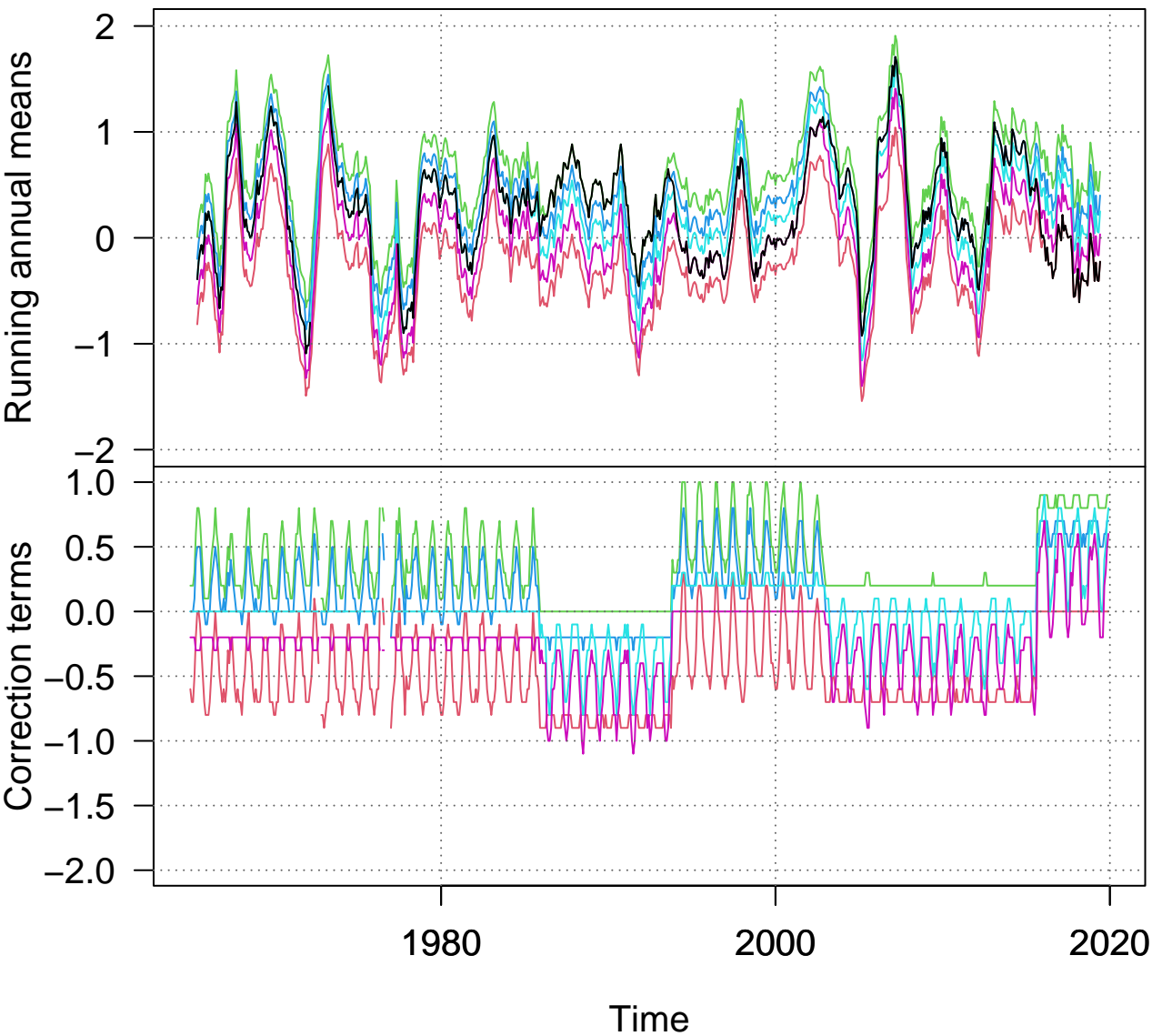
**MUNANI**





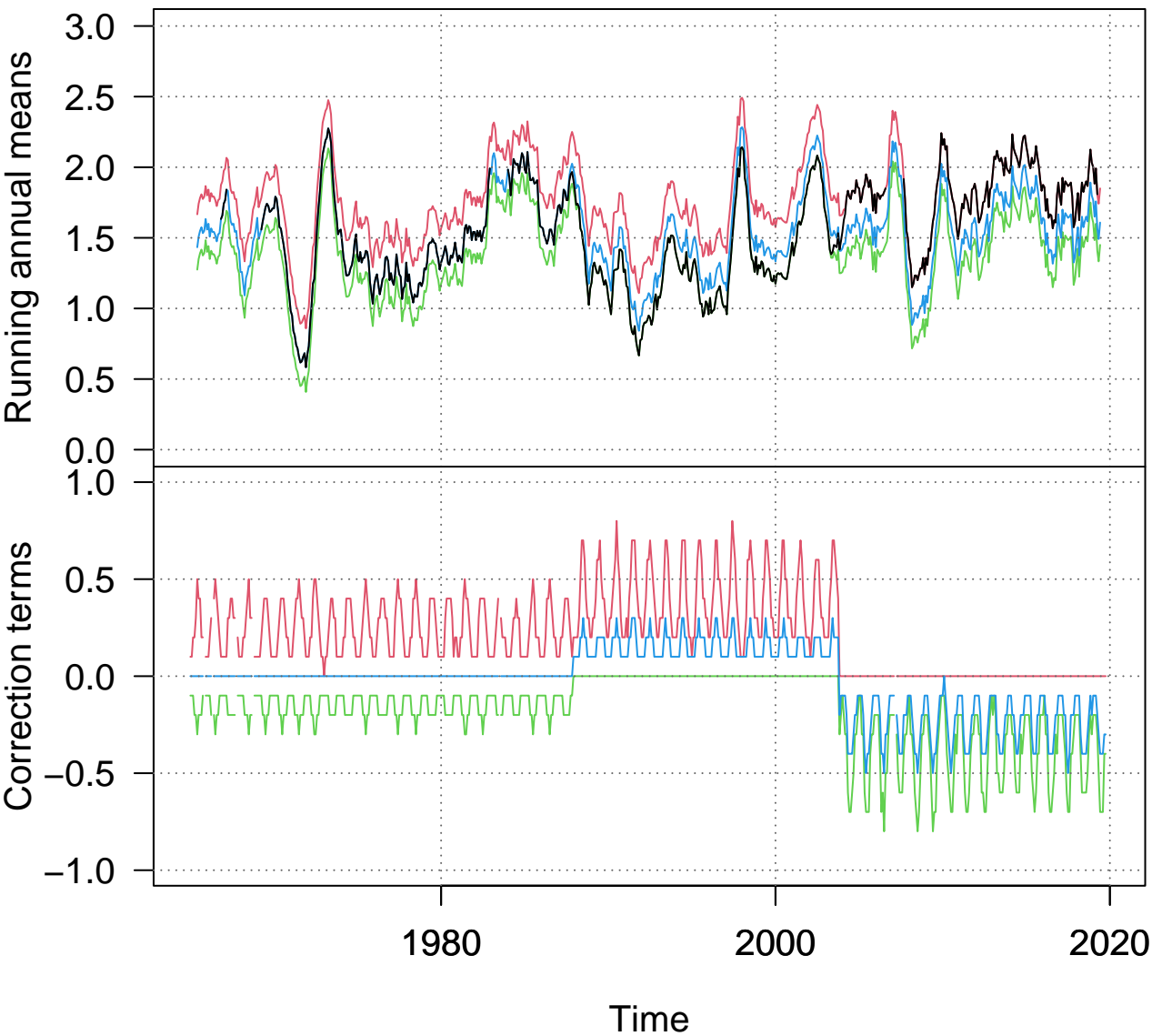
**tmin-m 8 (ho00000786)**

**HUANCANE**



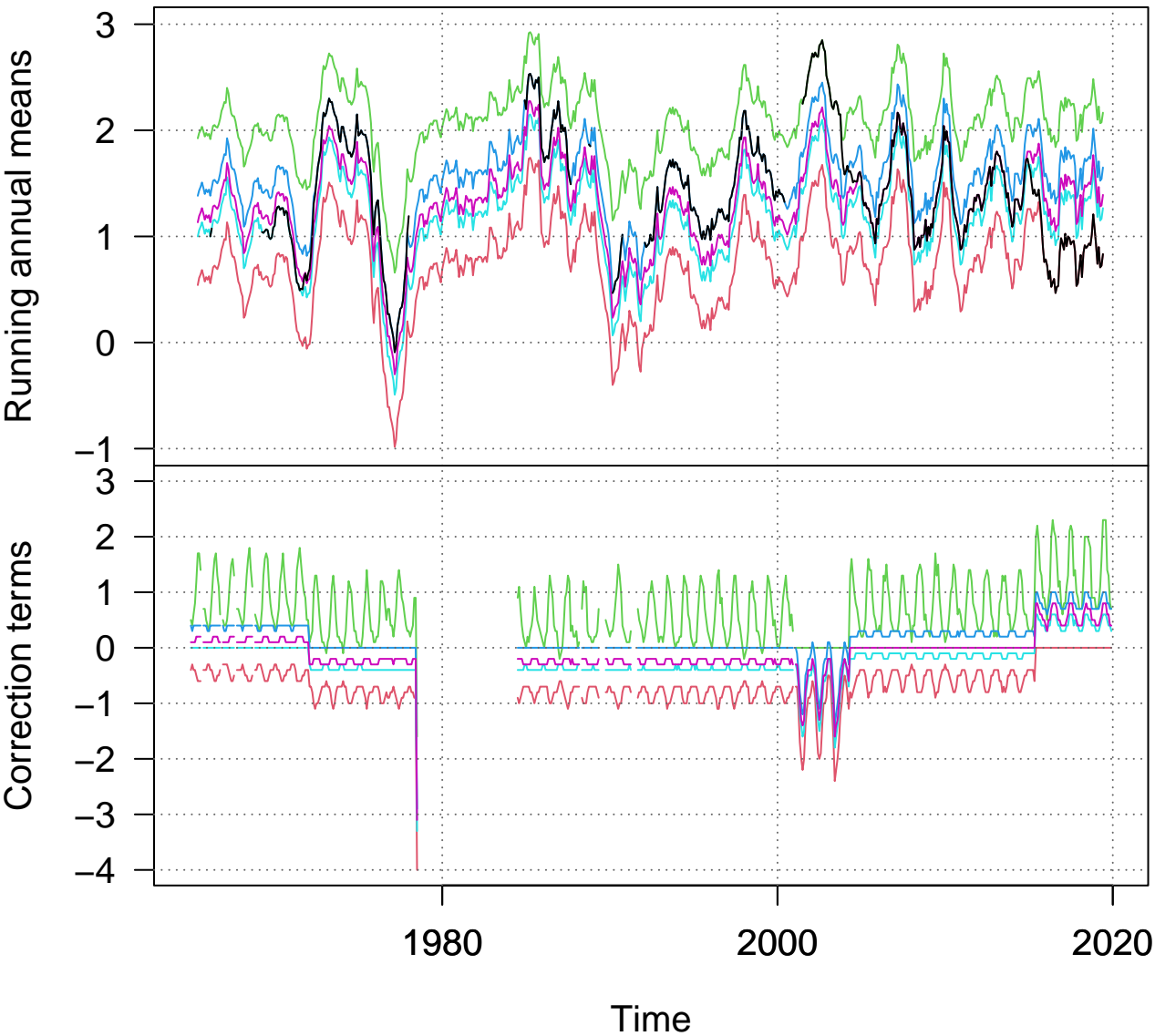
**tmin-m 9 (ho00000787)**

**HUARAYAMOHO**

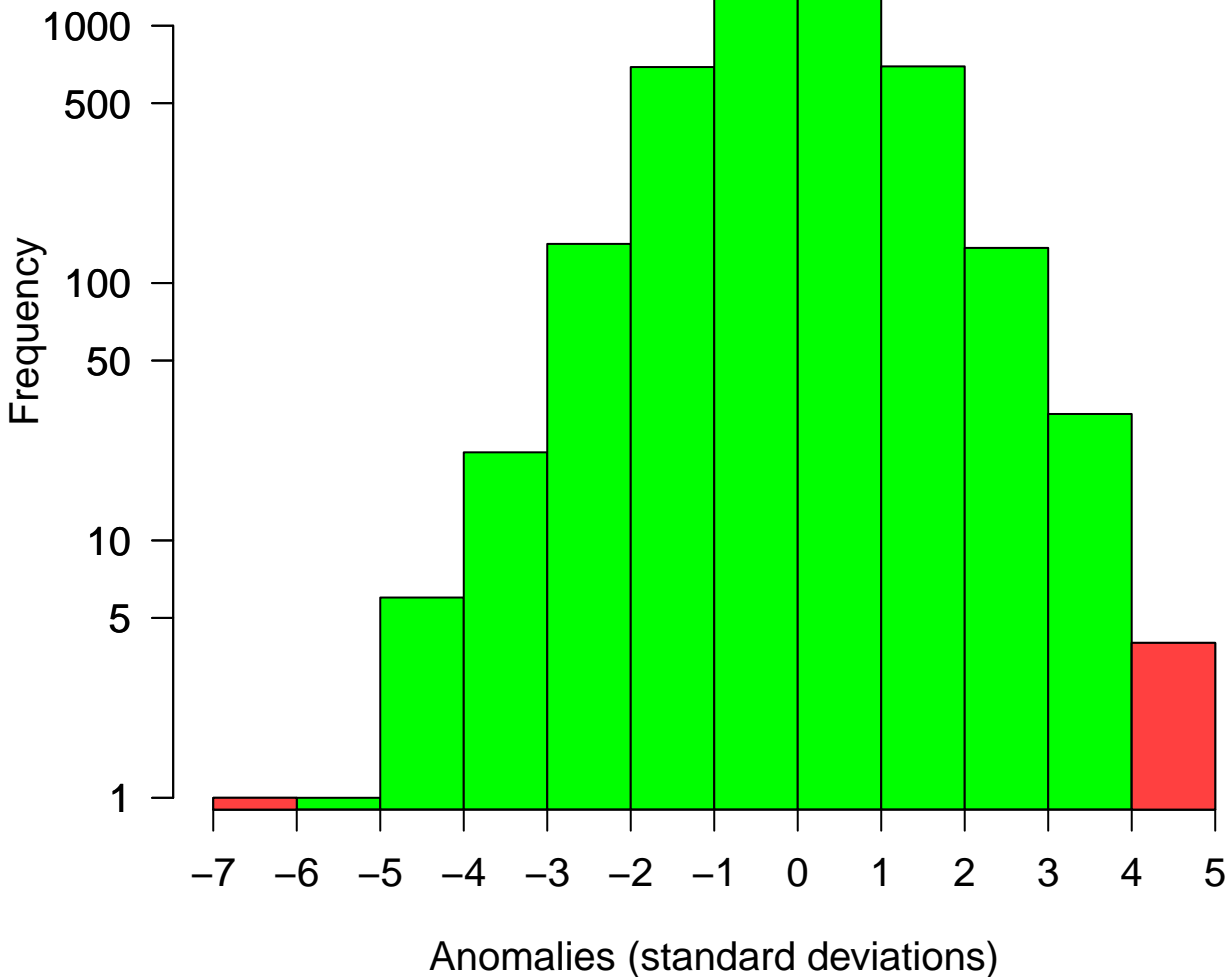


**tmin-m 10 (ho00000788)**

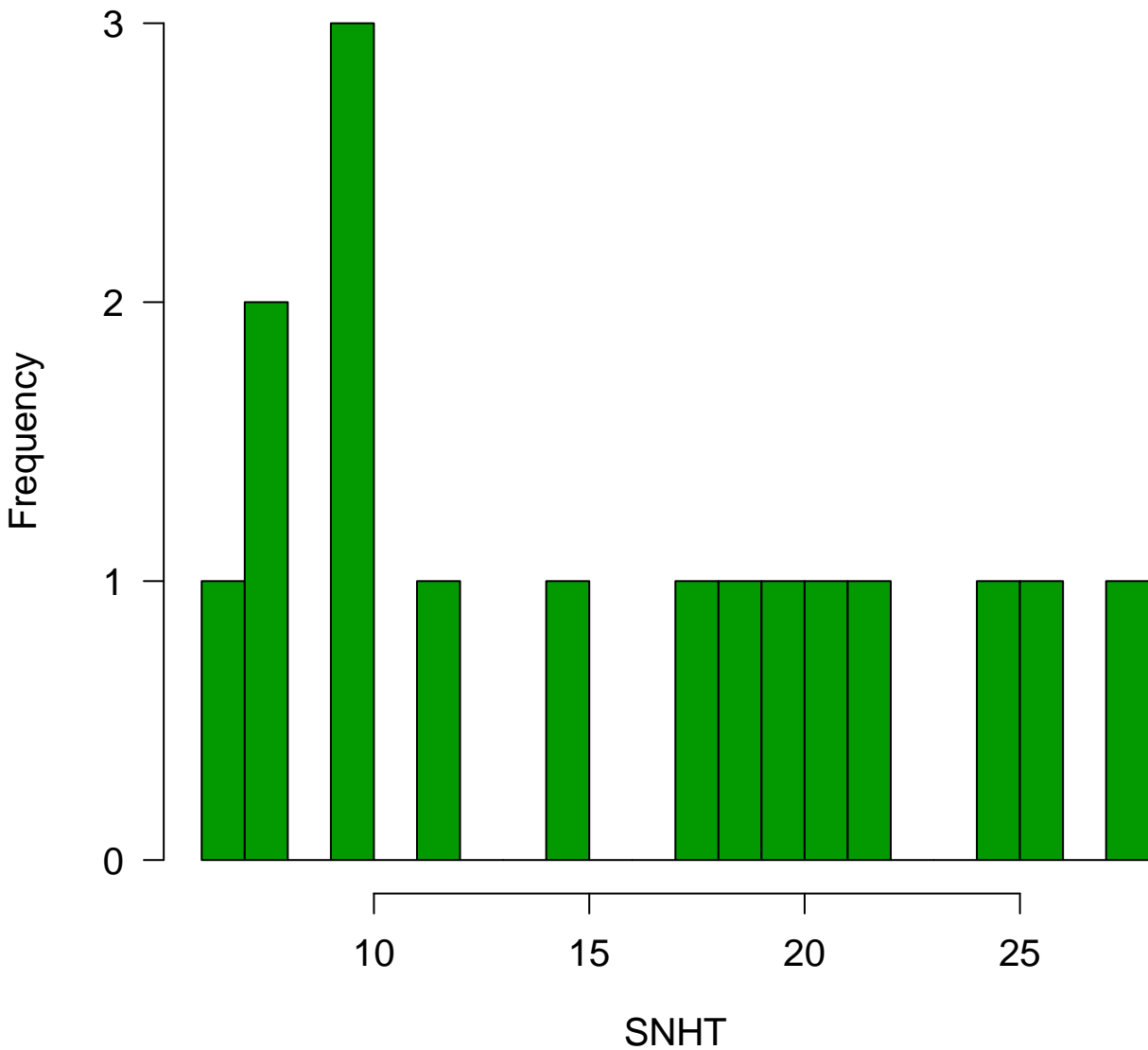
**CAPACHICA**



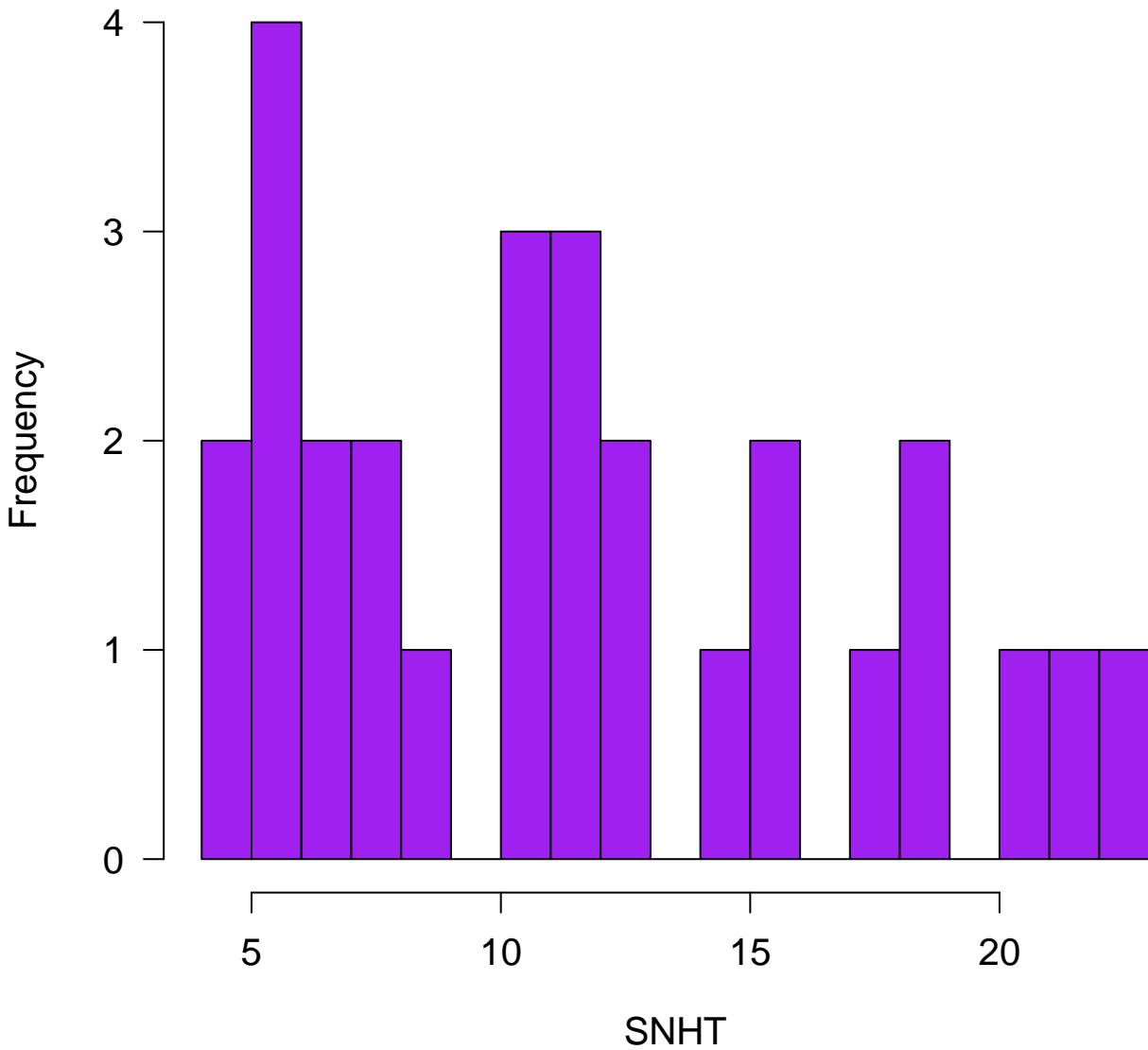
# Histogram of standardized anomalies



**Histogram of maximum windowed SNHT**



**Histogram of maximum global SNHT**



**Station's quality/singularity**

