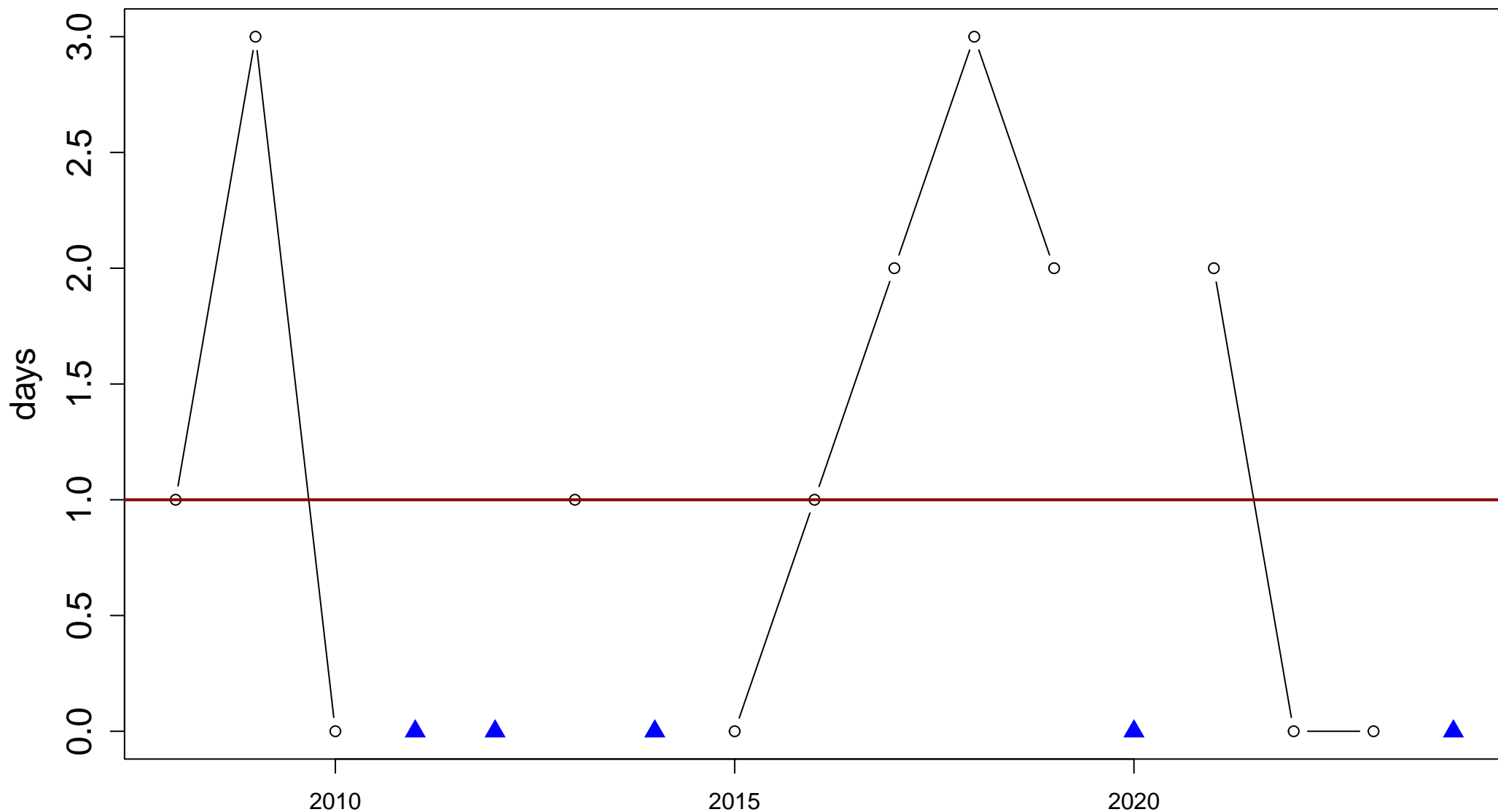


# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

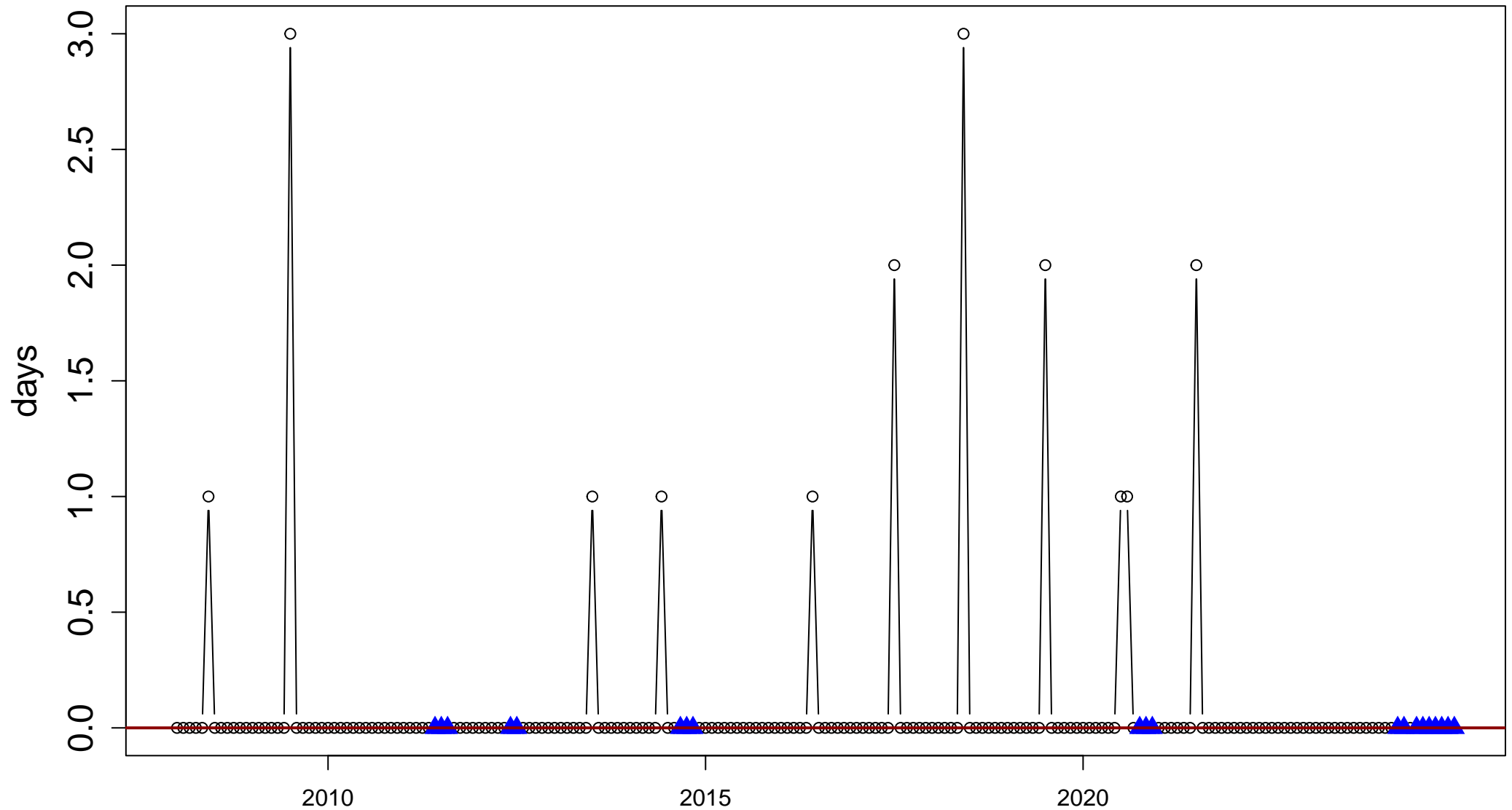
Index: fd. Annual number of days when TN < 0 degrees\_C



Sen's slope = 0 lower bound = -0.167, upper bound = 0.167, p-value = 0.886

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

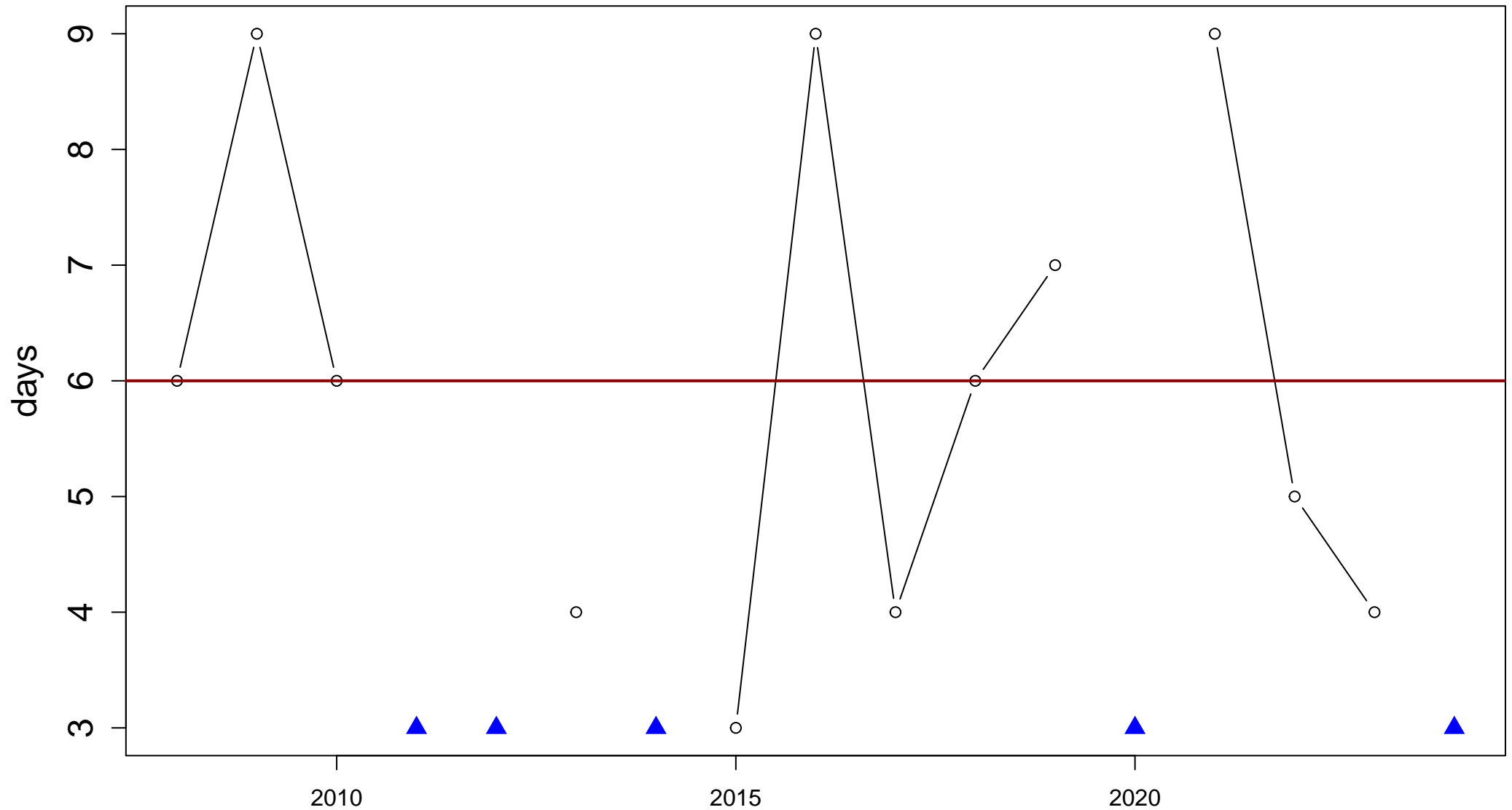
Index: fd. Monthly number of days when  $\text{TN} < 0^{\circ}\text{C}$



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 0.847

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

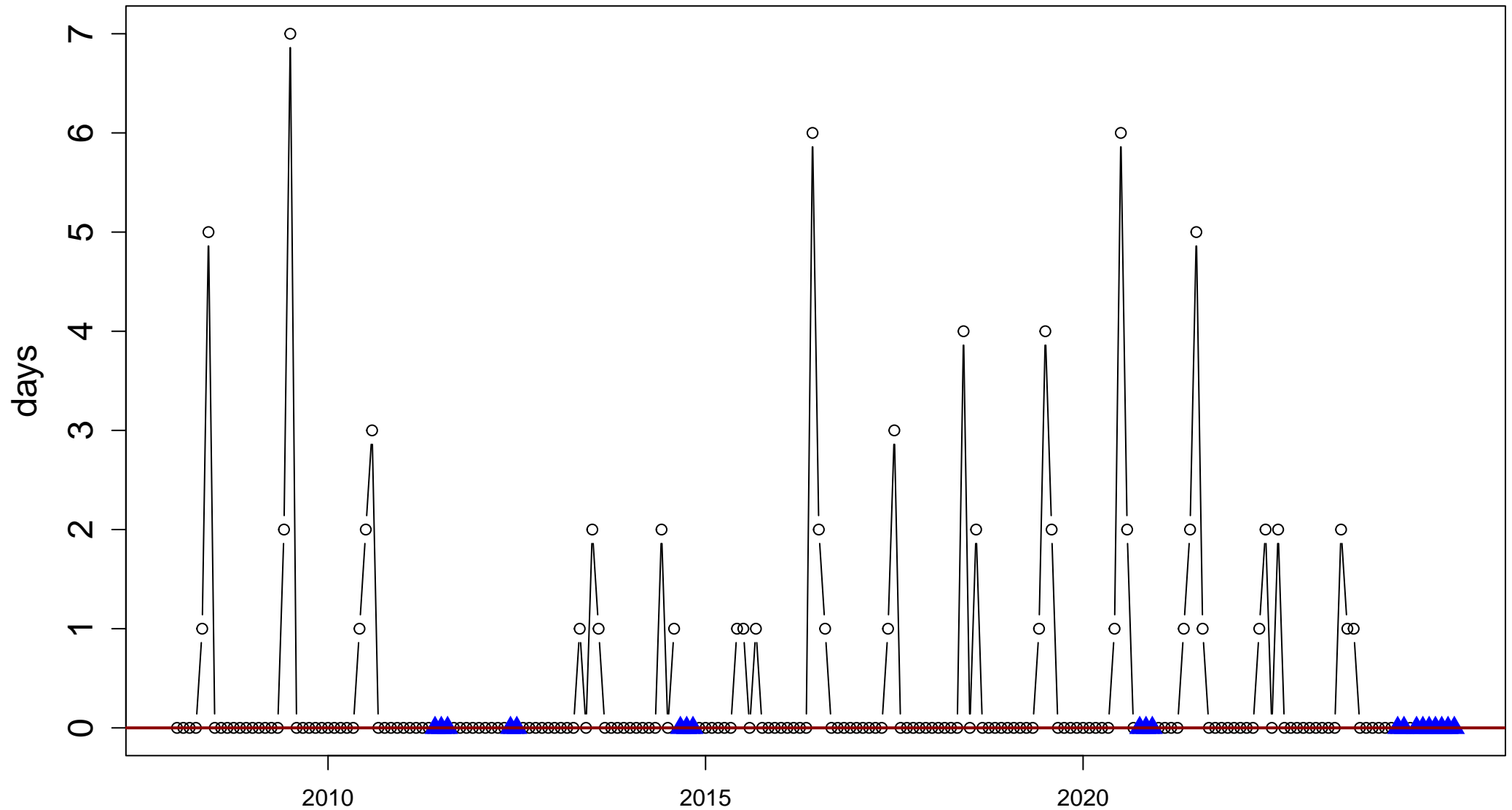
Index: tnlt2. Annual number of days when TN < 2 degrees\_C



Sen's slope = 0 lower bound = −0.4, upper bound = 0.273, p-value = 0.778

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

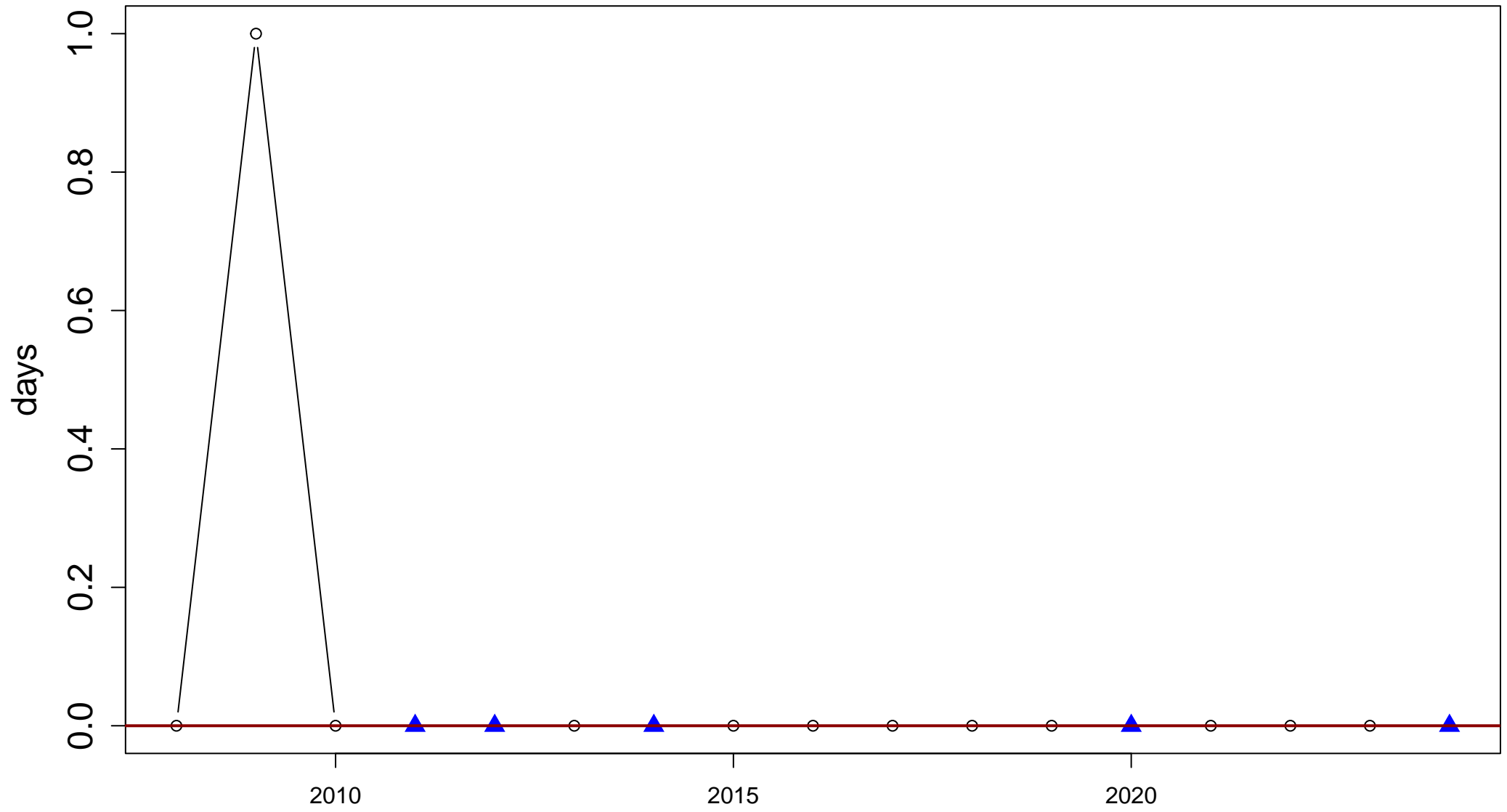
Index: tnlt2. Monthly number of days when TN < 2 degrees\_C



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 0.205

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

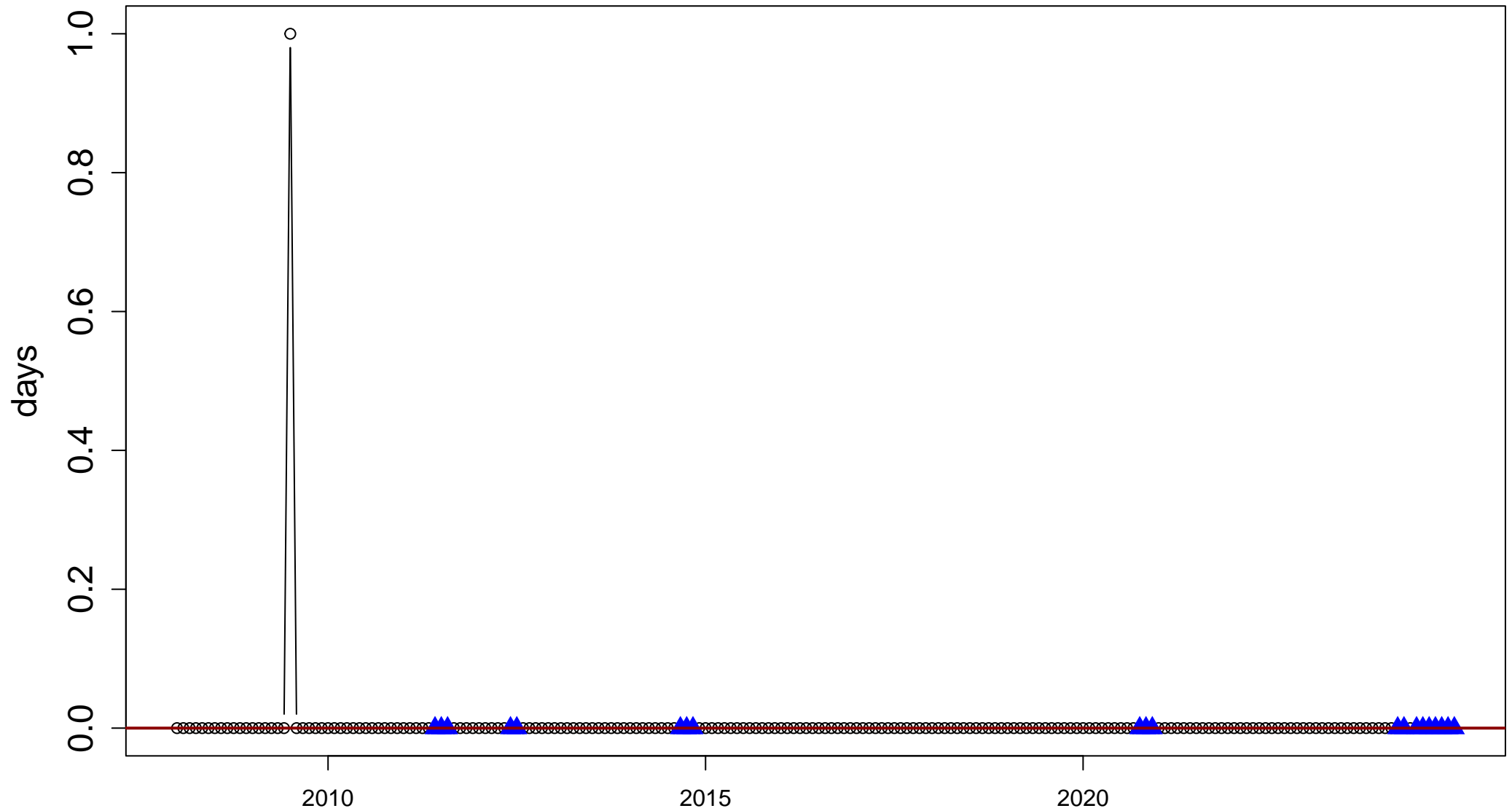
Index: tnltm2. Annual number of days when TN < −2 degrees\_C



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 0.247

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

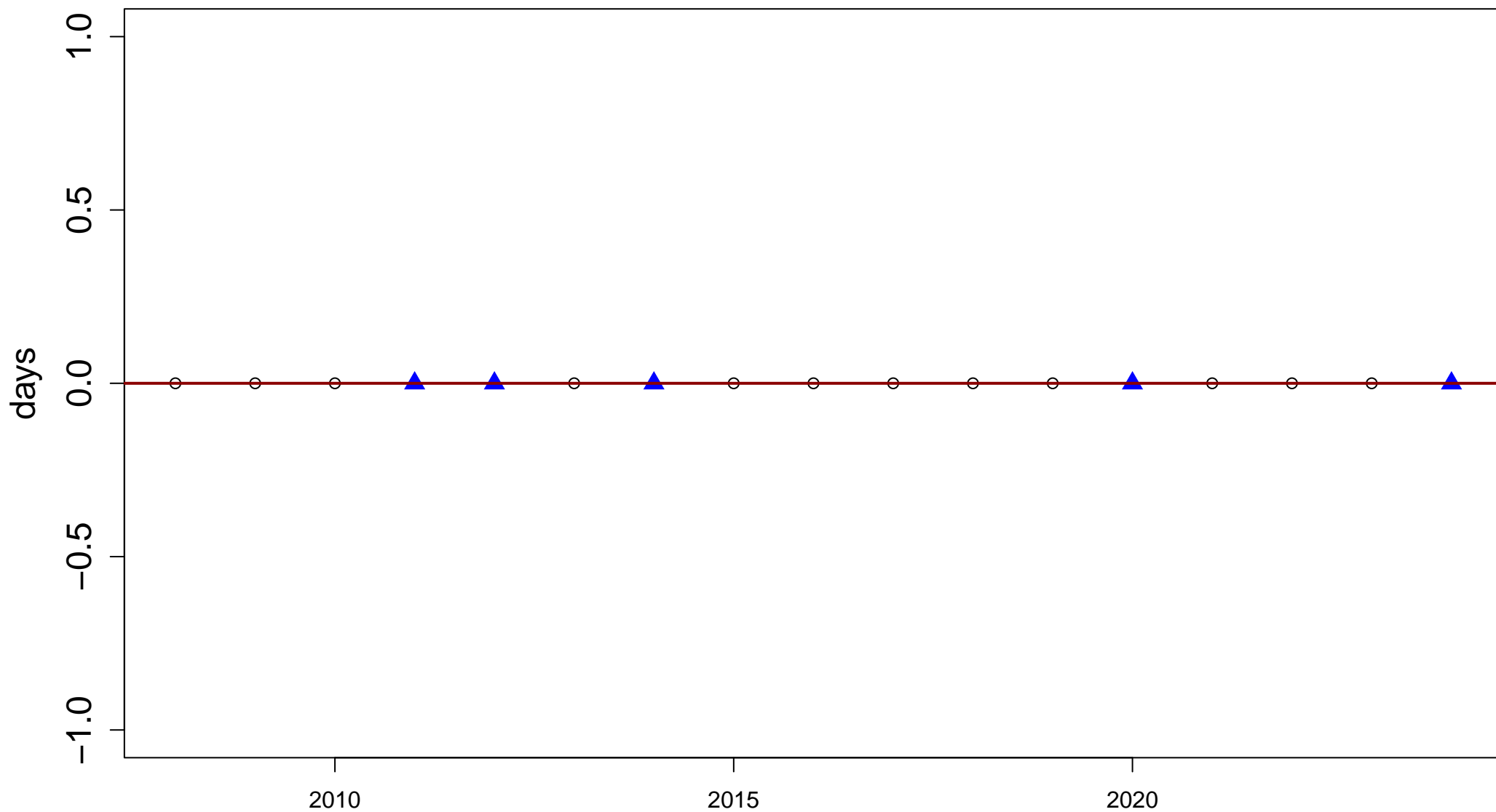
Index: tnltm2. Monthly number of days when  $\text{TN} < -2^{\circ}\text{C}$



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 0.169

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

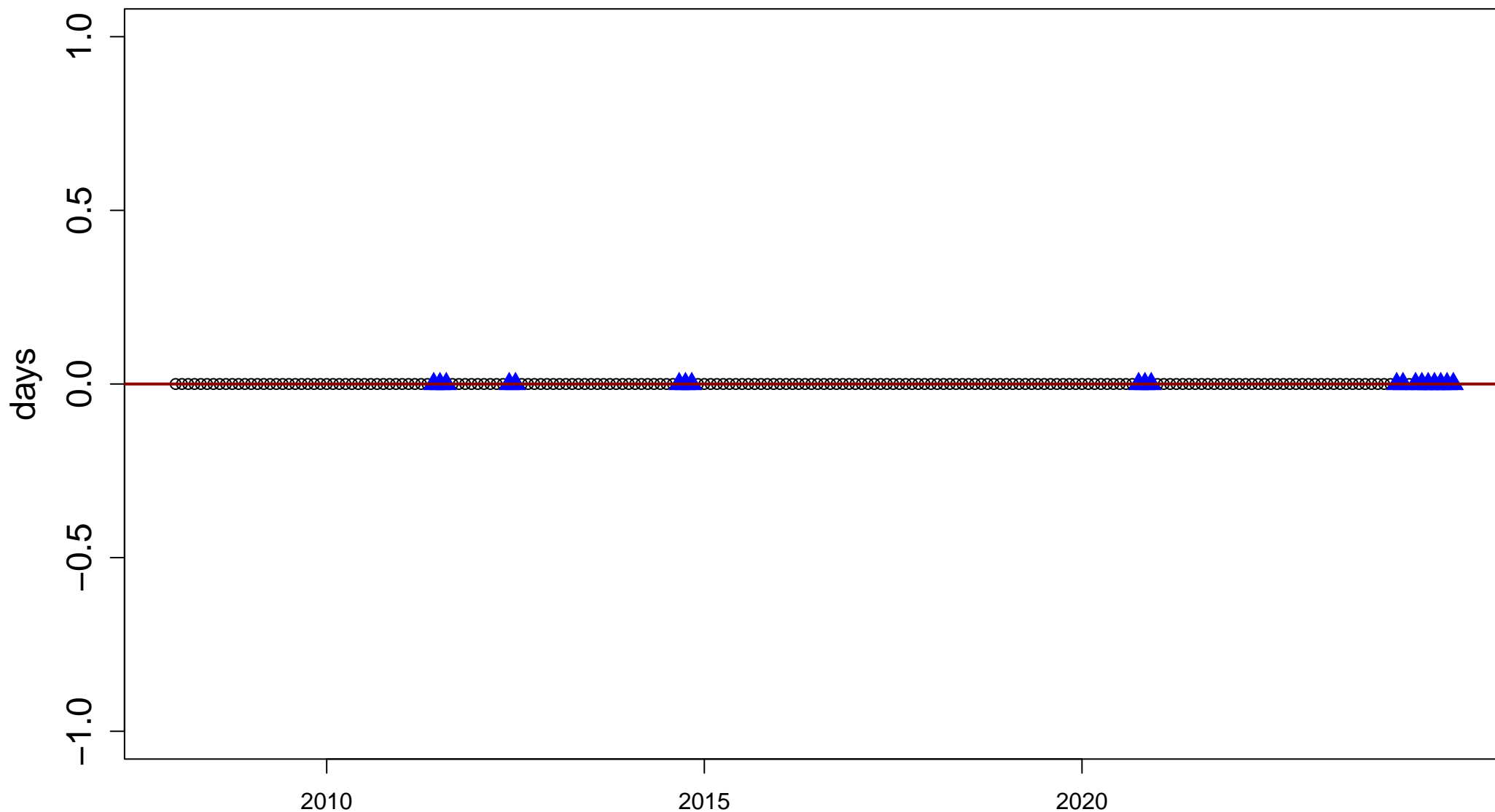
Index: tnltm20. Annual number of days when TN < -20 degrees\_C



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 1

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

Index: tnltm20. Monthly number of days when TN < −20 degrees\_C

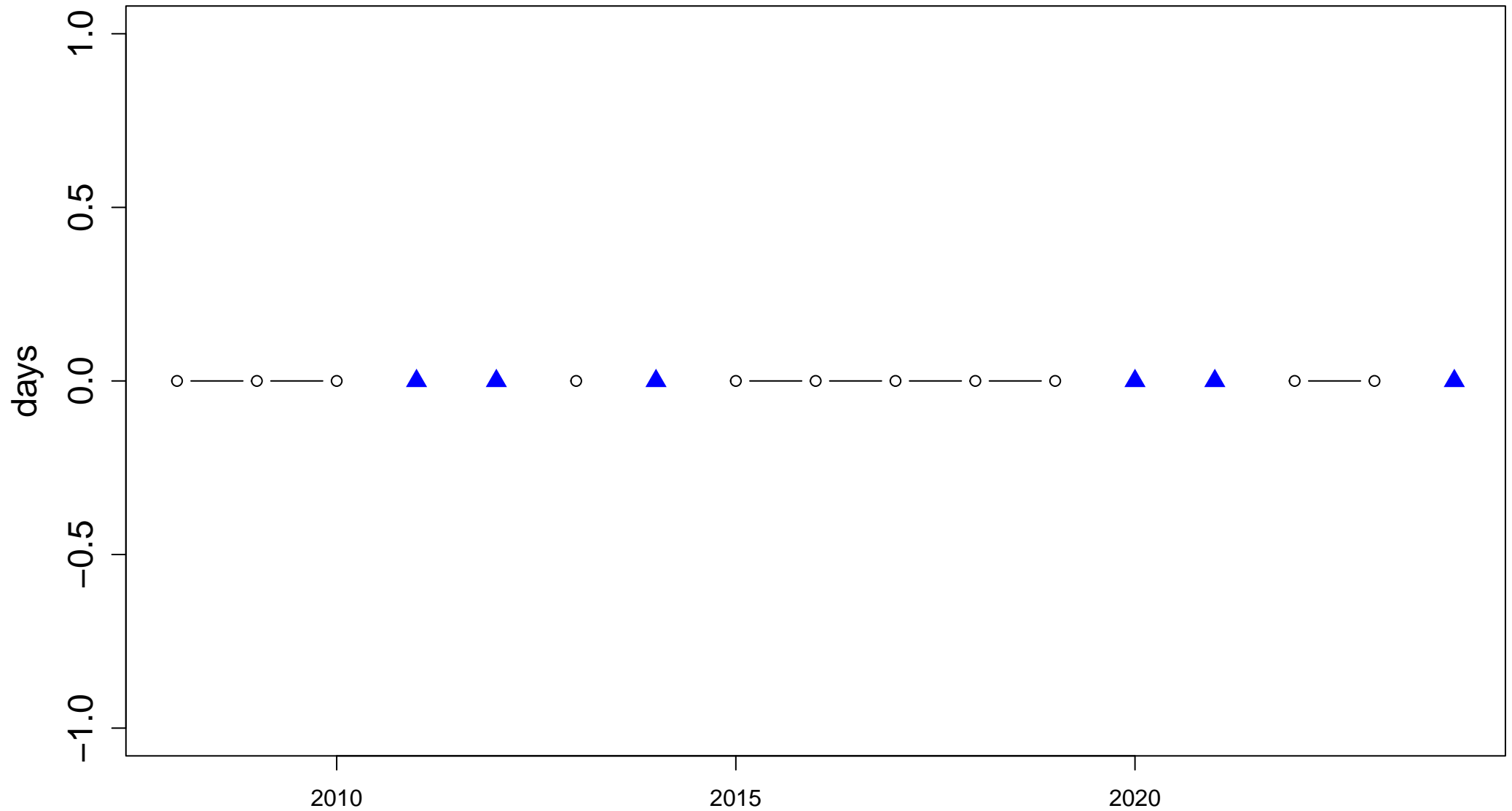


Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 1



# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

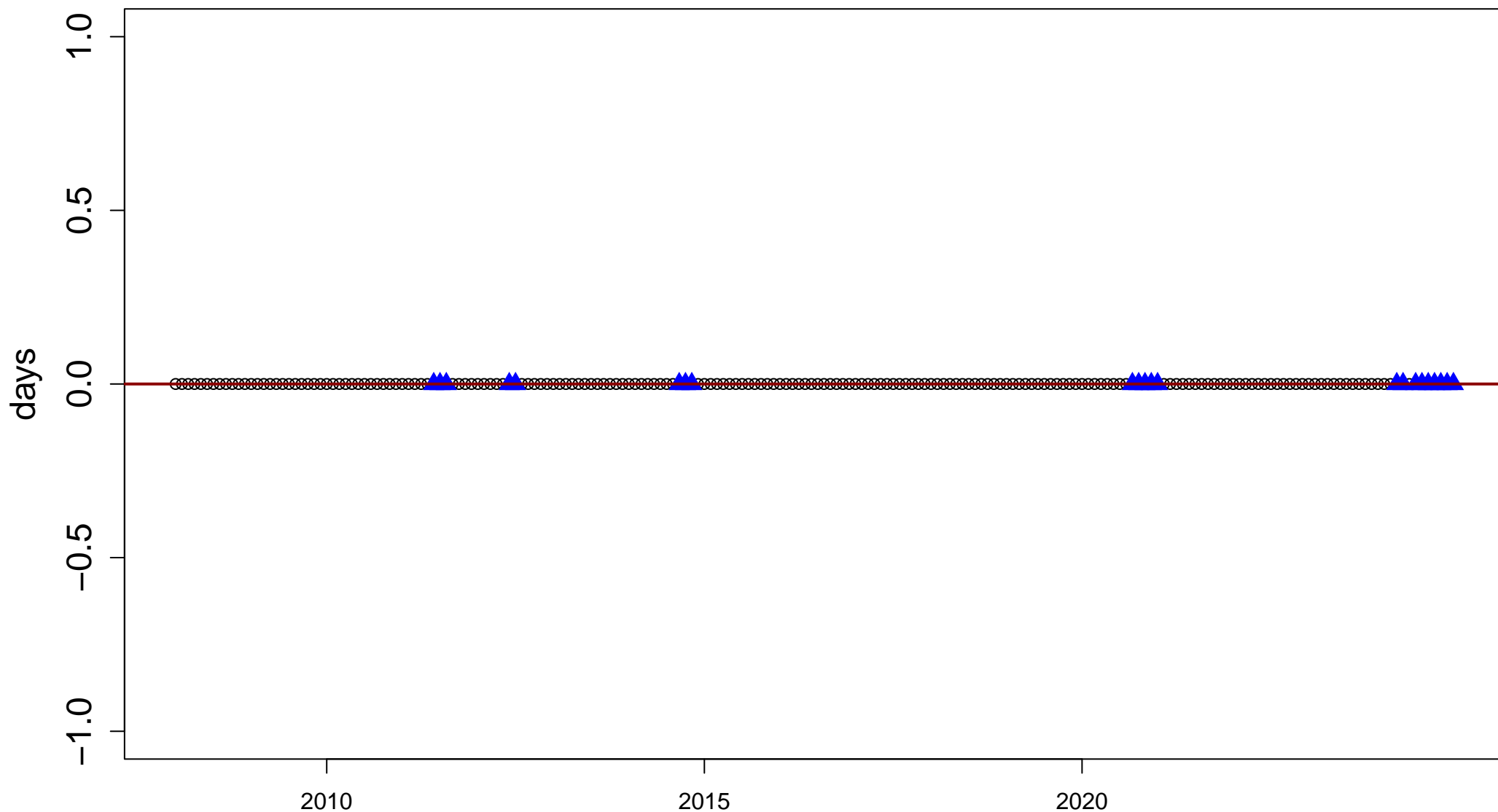
Index: id. Annual number of days when TX < 0 degrees\_C



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

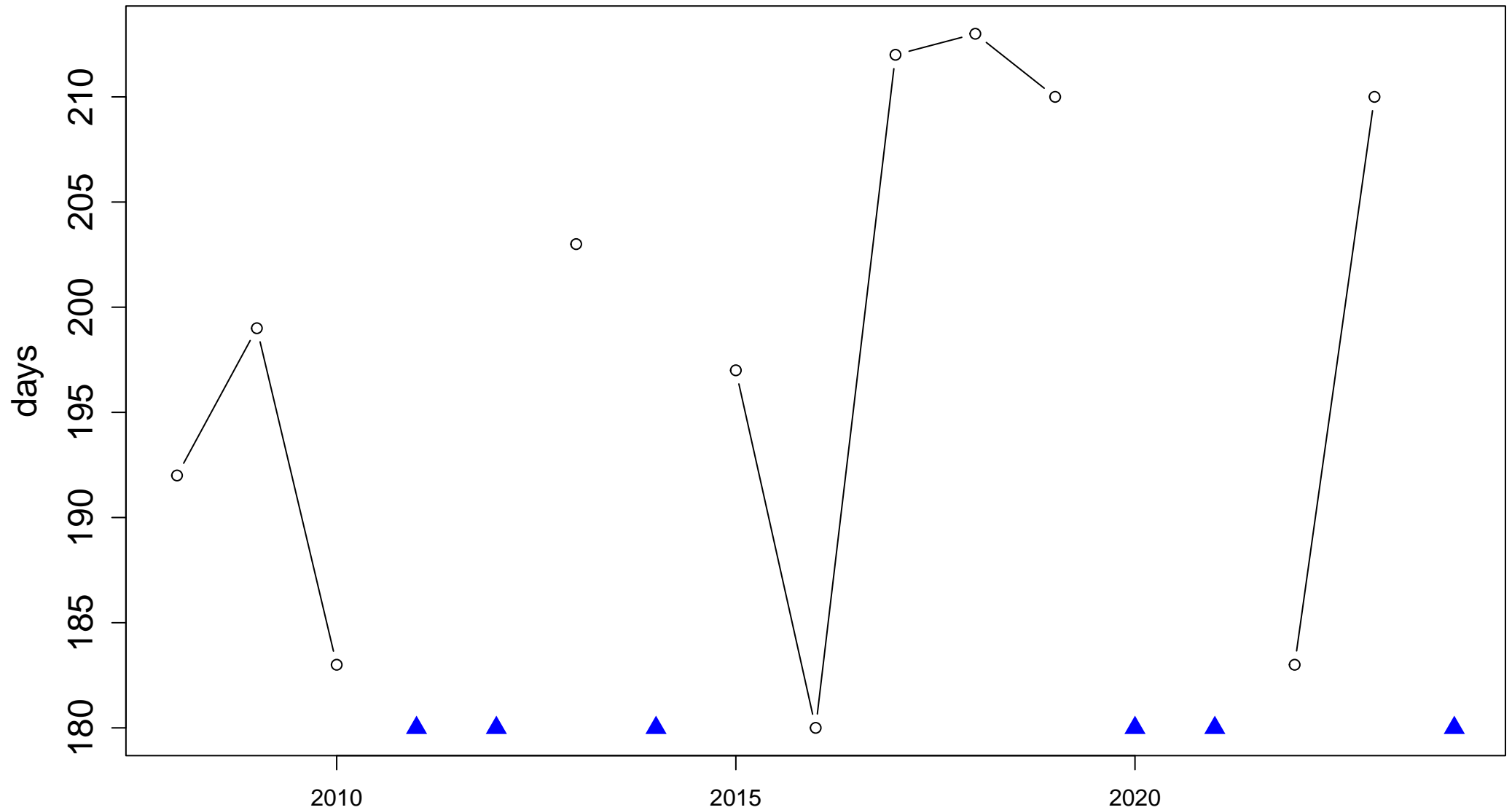
Index: id. Monthly number of days when TX < 0 degrees\_C



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 1

# Station: Santa Maria [-29.7249999°S, -53.7205554°W]

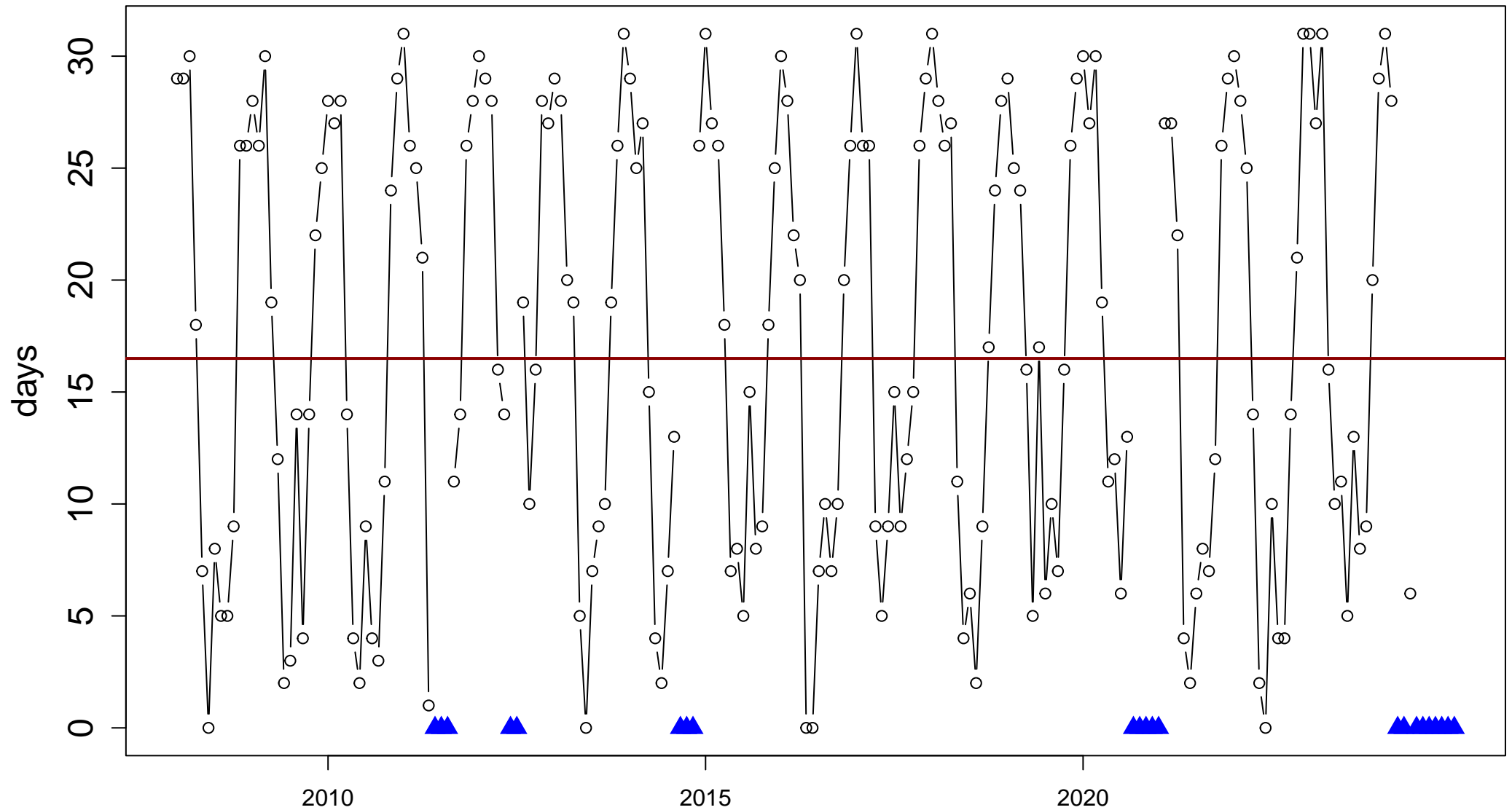
Index: su. Annual number of days when TX > 25 degrees\_C



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [-29.7249999°S, -53.7205554°W]

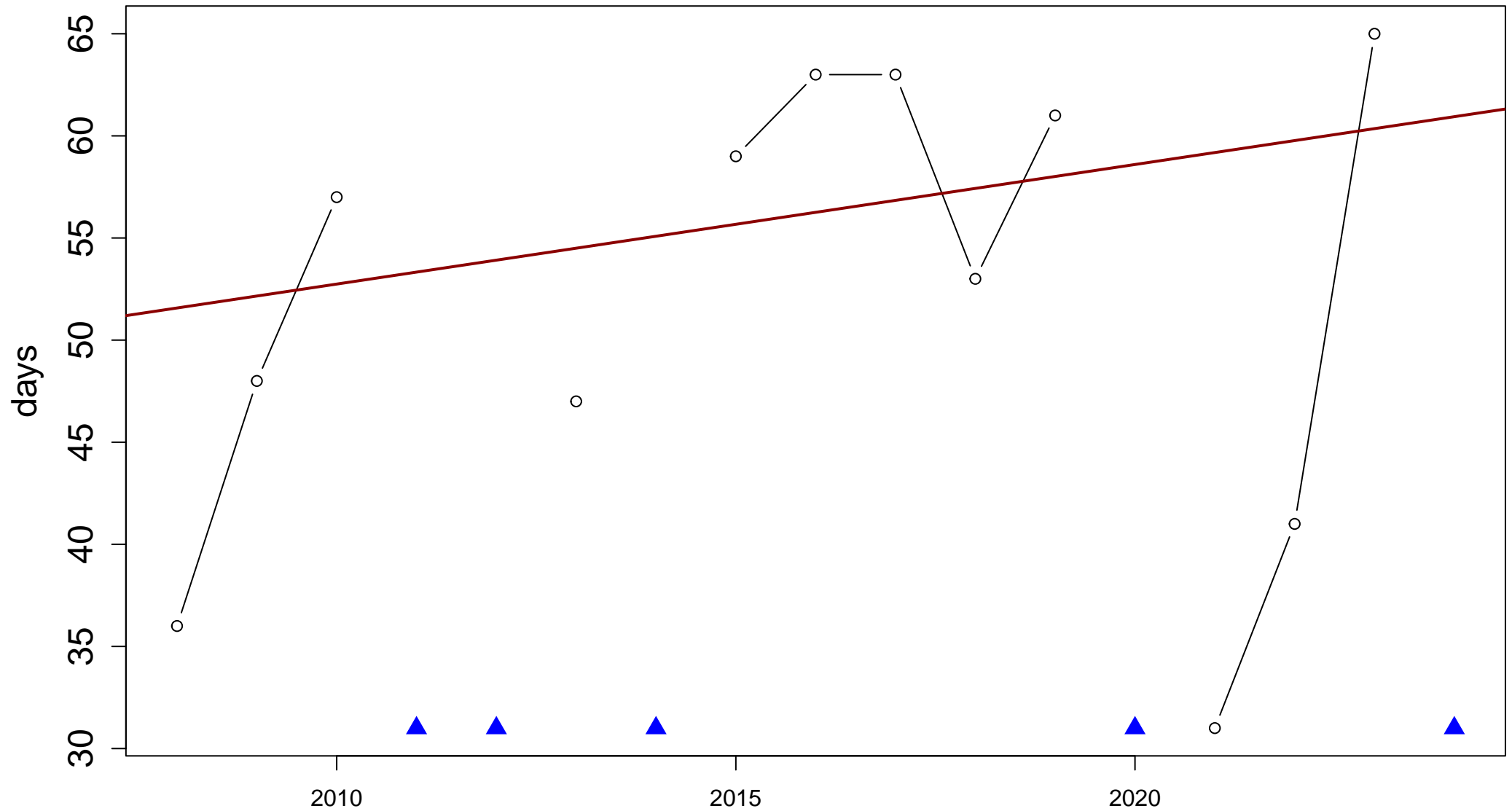
Index: su. Monthly number of days when TX > 25 degrees\_C



Sen's slope = 0 lower bound = -0.022, upper bound = 0.019, p-value = 0.96

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

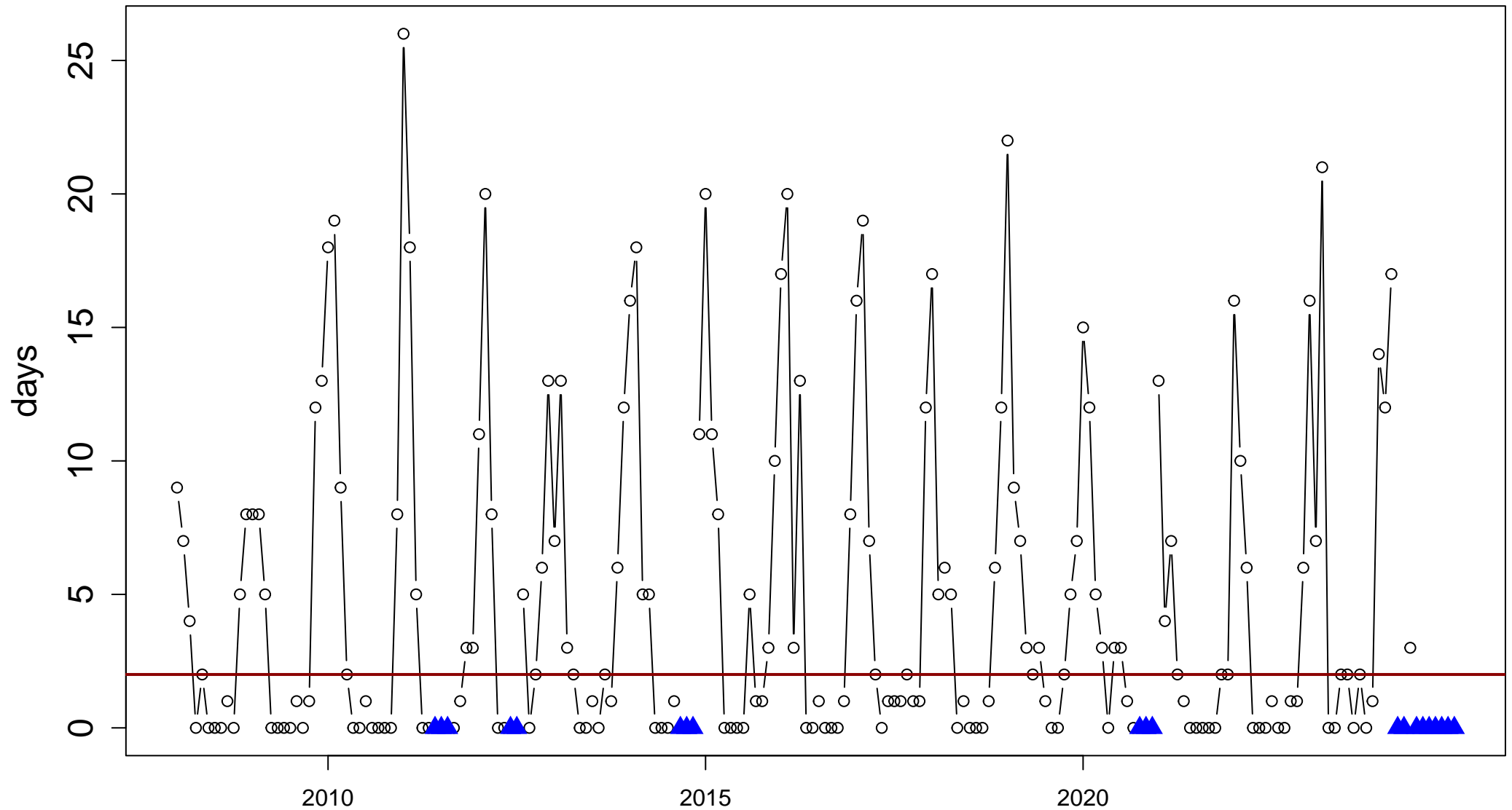
Index: tr. Annual number of days when TN > 20 degrees\_C



Sen's slope = 0.585 lower bound = −1, upper bound = 2, p-value = 0.336

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

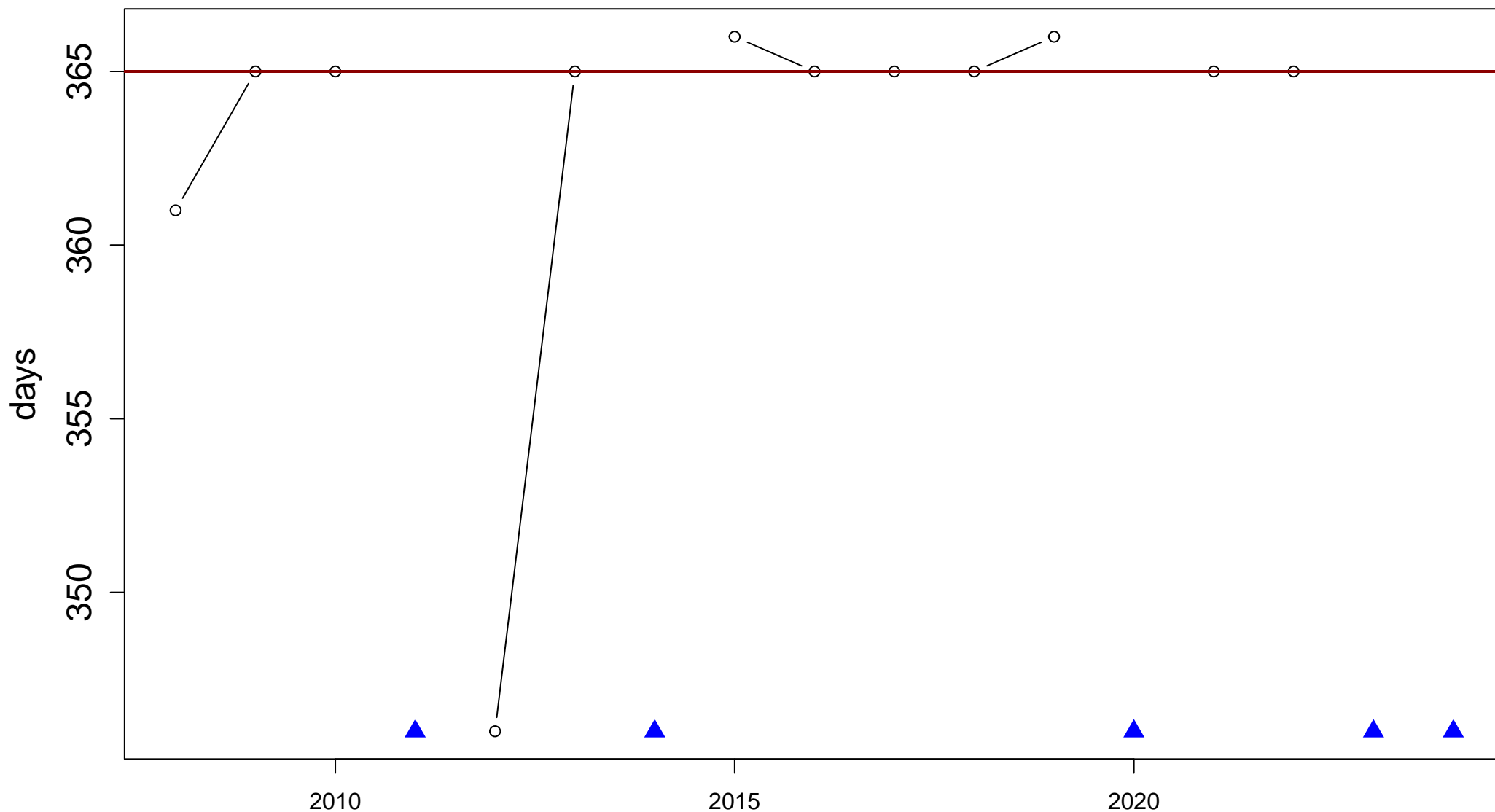
Index: tr. Monthly number of days when TN > 20 degrees\_C



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 0.819

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

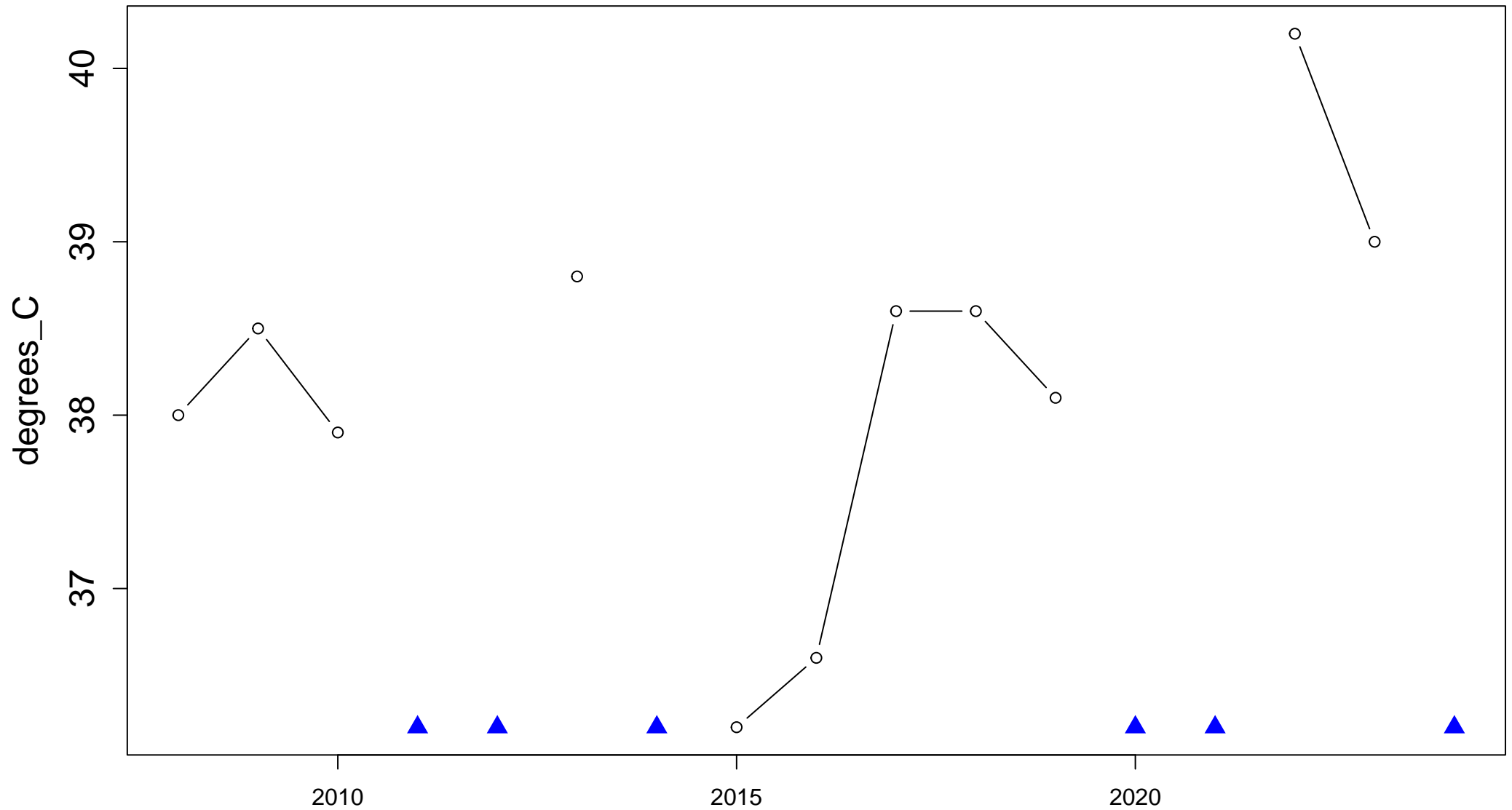
Index: gsl. Annual number of days between the first occurrence of 6 consecutive days with TM > 5 degrees\_C and the first occurrence of 6 consecutive days with TM < 5 degrees\_C



Sen's slope = 0 lower bound = 0, upper bound = 0.286, p-value = 0.186

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

Index: txx. Annual warmest daily TX

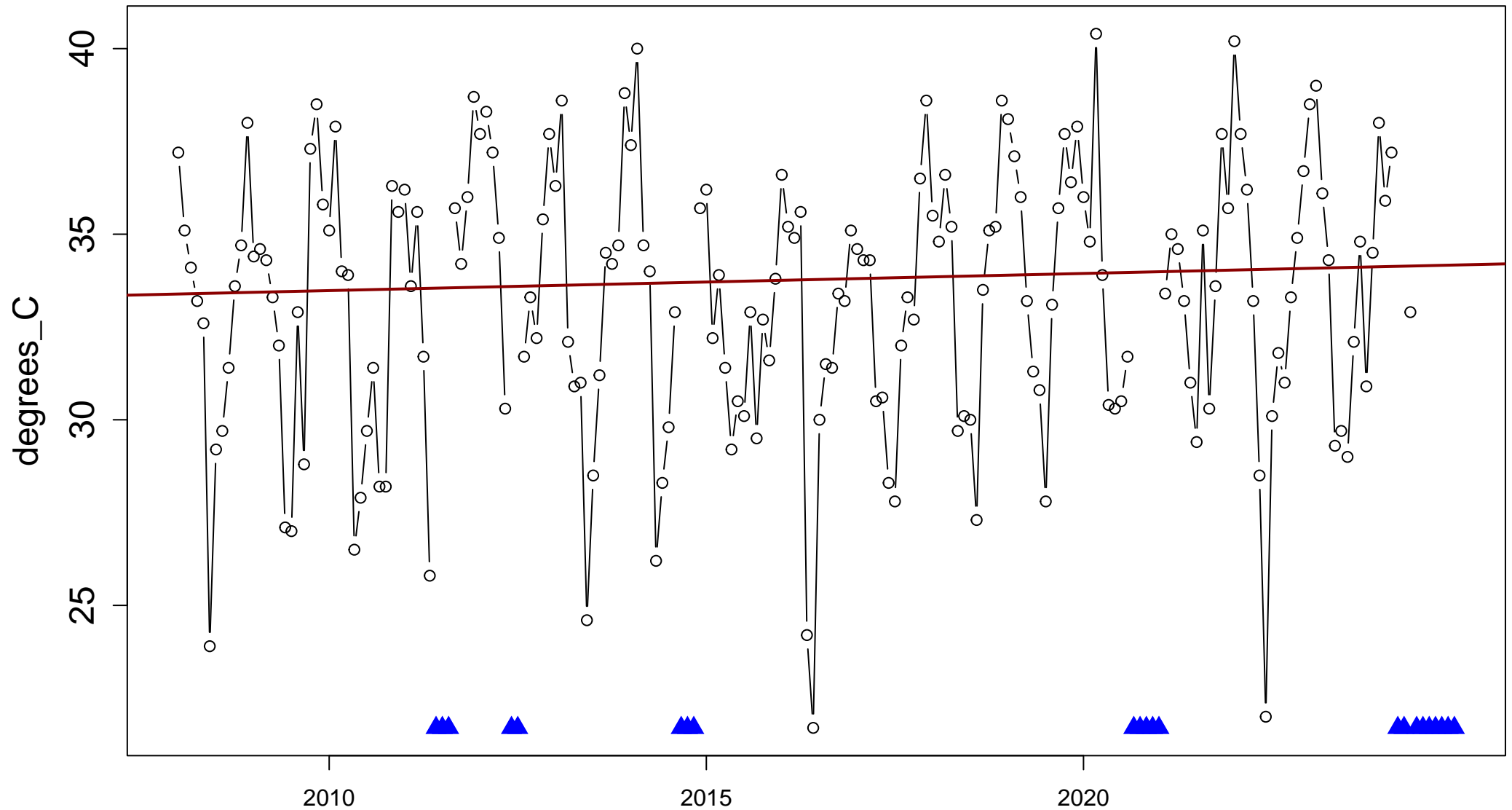


NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.



# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

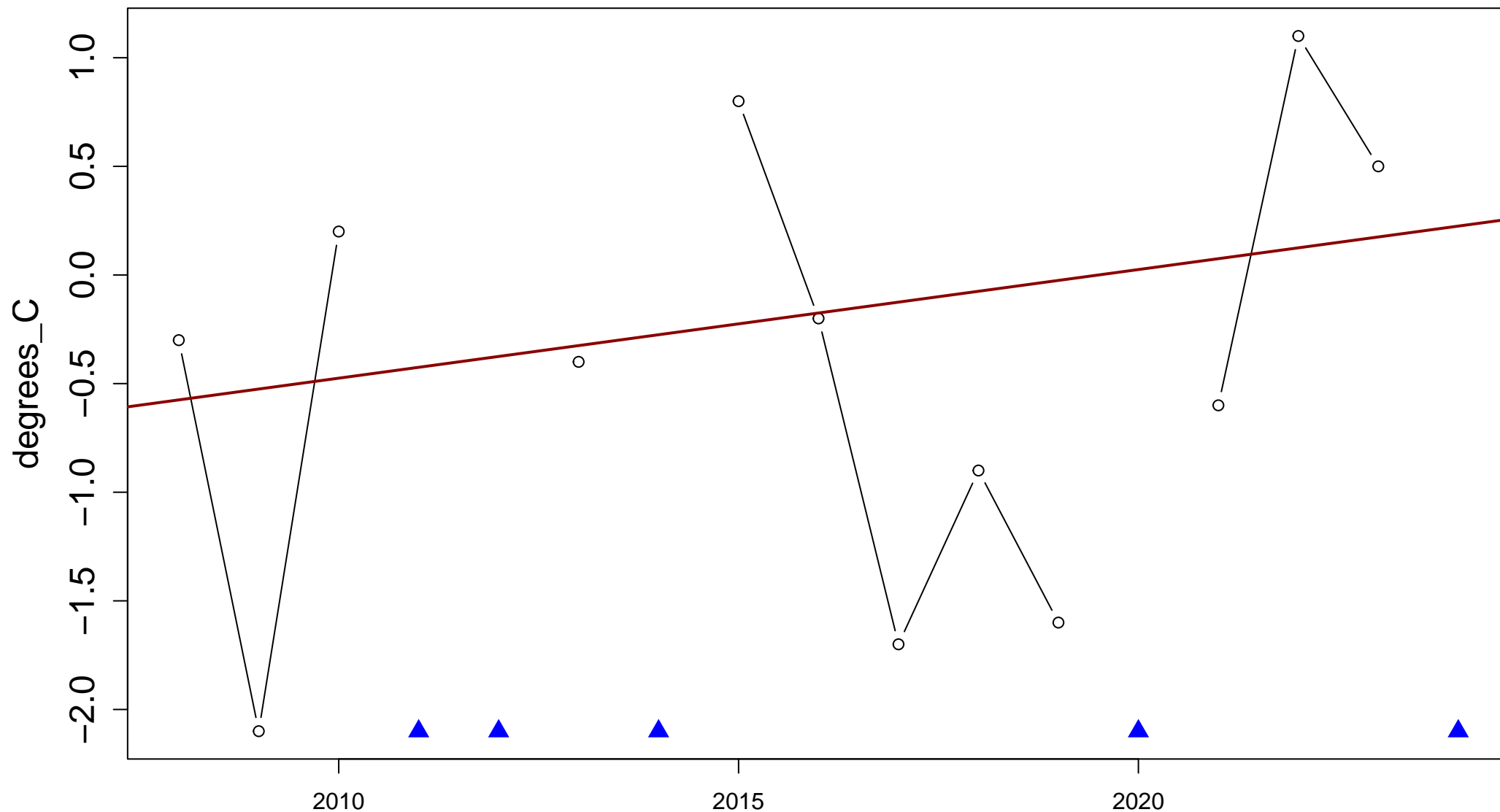
Index: txx. Monthly warmest daily TX



Sen's slope = 0.004 lower bound = -0.006, upper bound = 0.013, p-value = 0.407

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

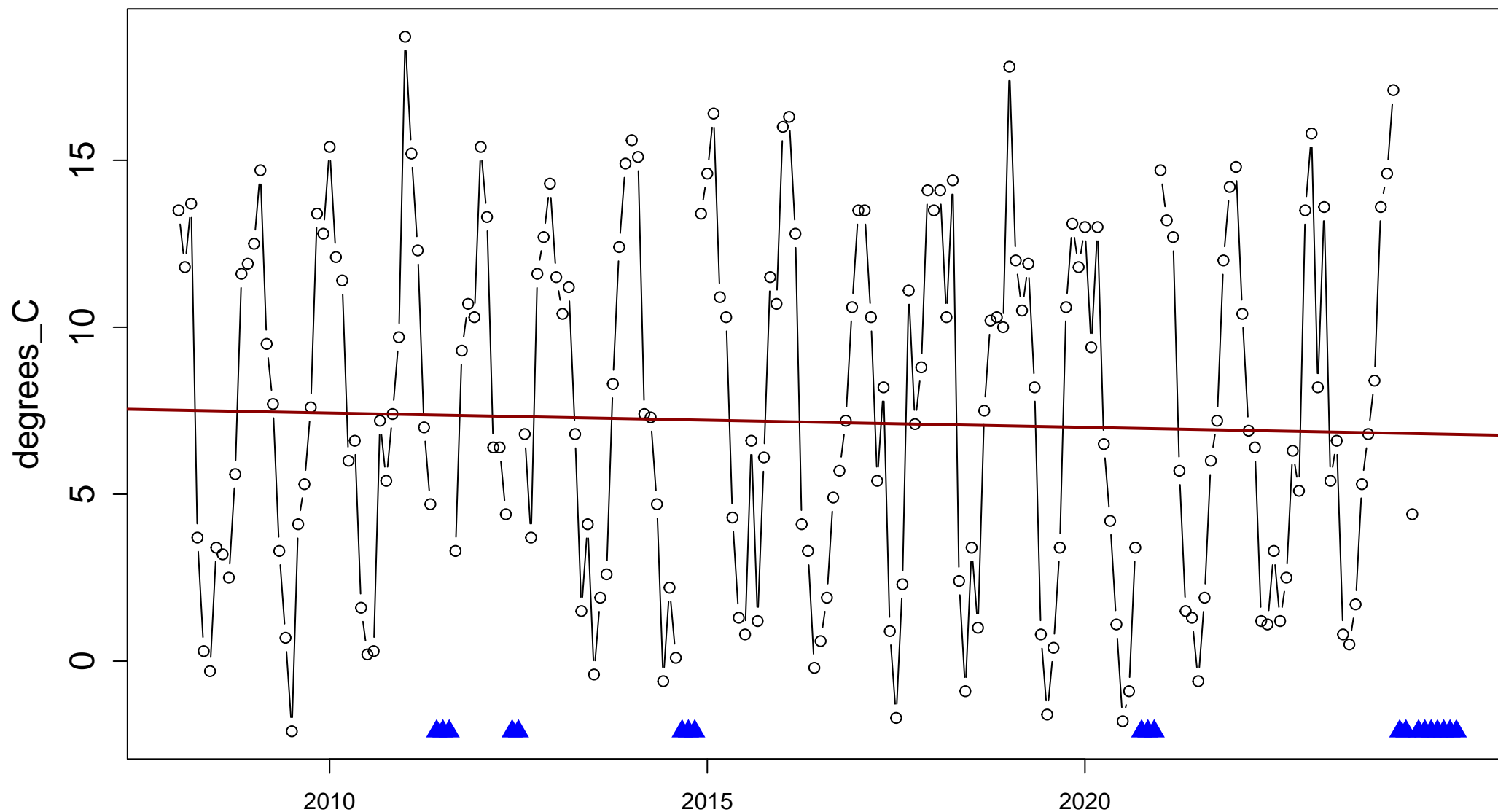
Index: tnn. Annual coldest daily TN



Sen's slope = 0.05 lower bound = -0.118, upper bound = 0.186, p-value = 0.537

**Station: Santa Maria [-29.72499999°S, -53.72055554°W]**

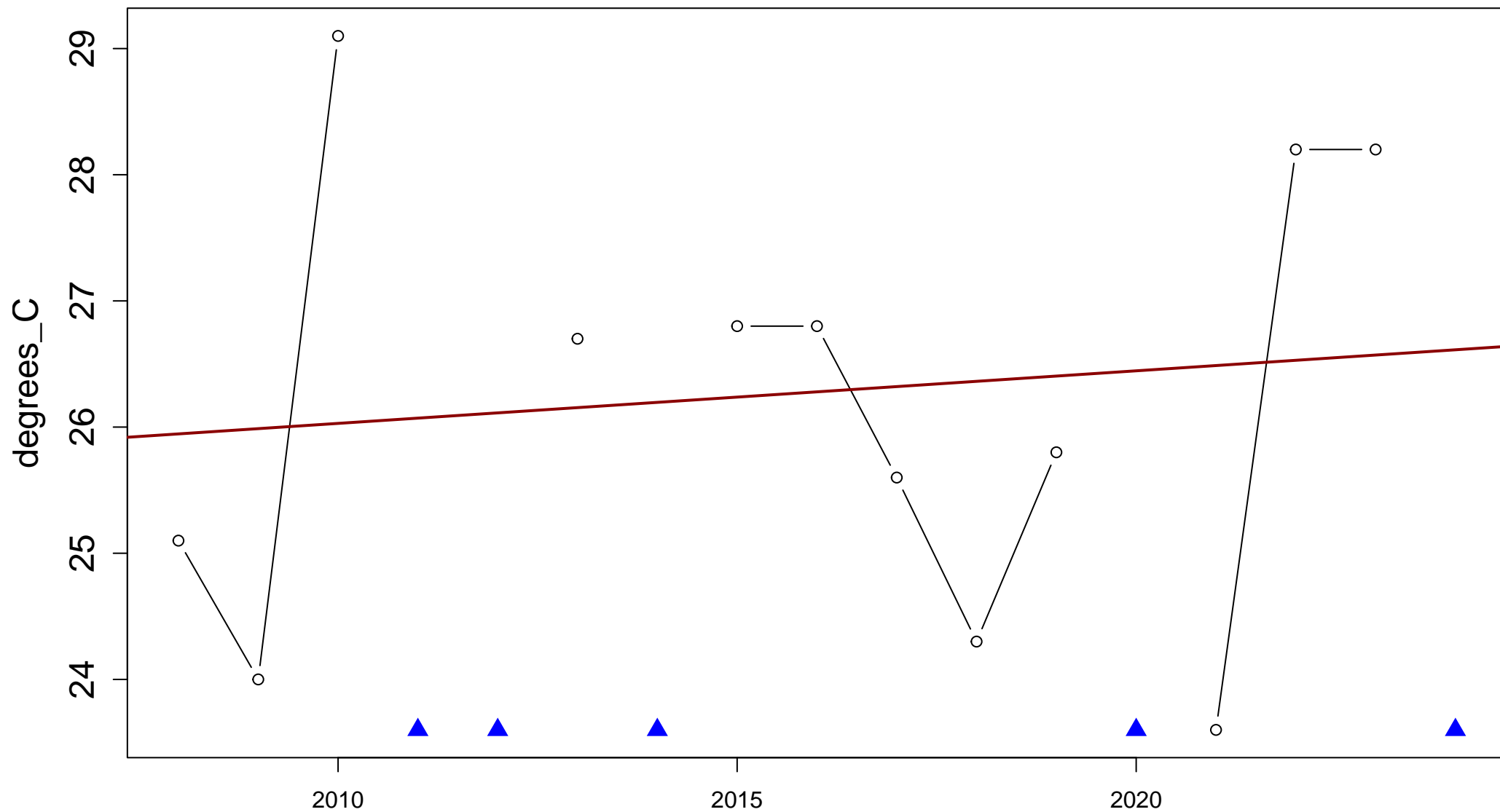
Index: tnn. Monthly coldest daily TN



Sen's slope =  $-0.004$    lower bound =  $-0.017$ ,   upper bound =  $0.01$ ,   p-value =  $0.617$

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

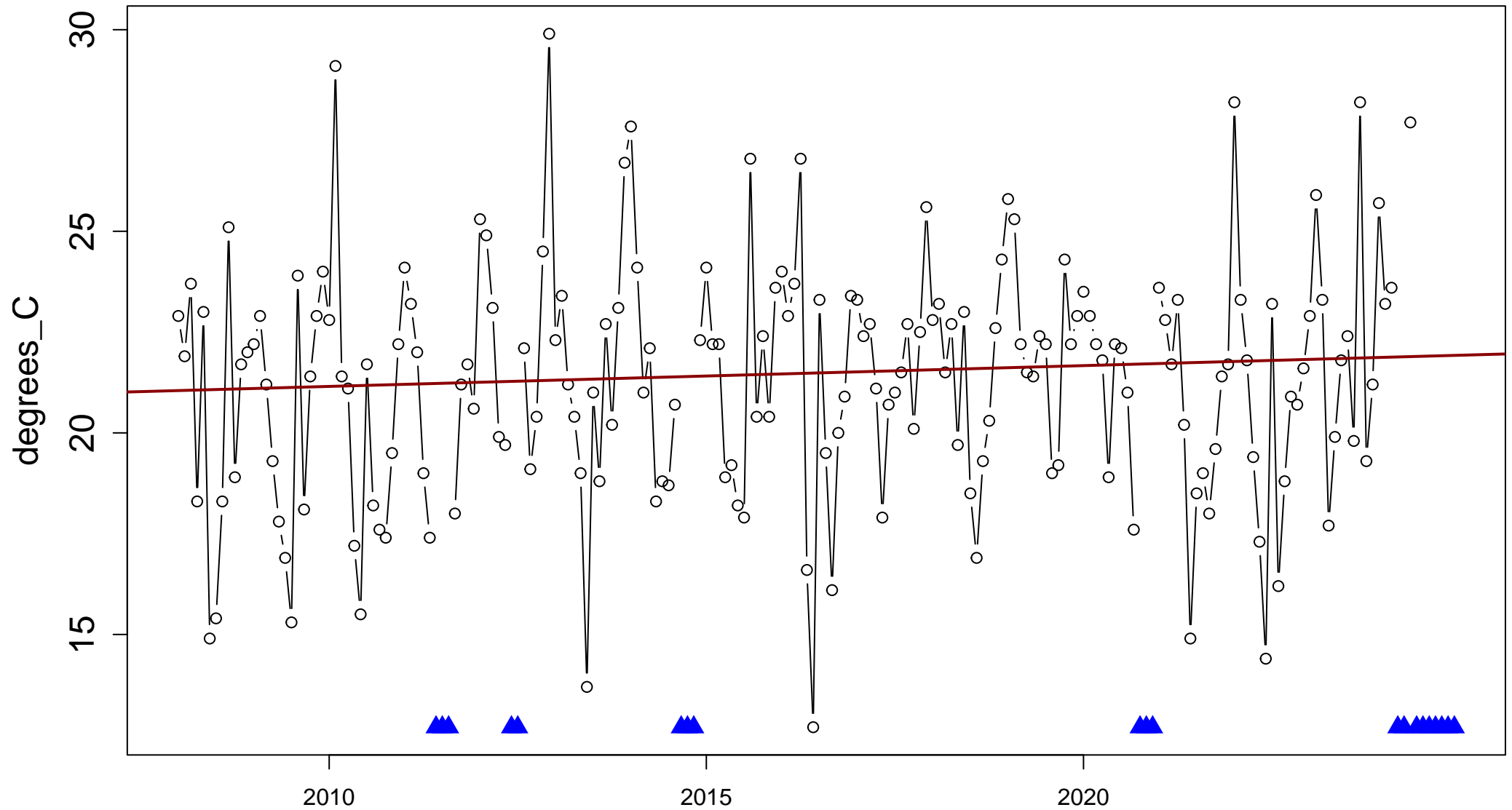
Index: tnx. Annual warmest daily TN



Sen's slope = 0.042 lower bound = −0.367, upper bound = 0.221, p-value = 0.73

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

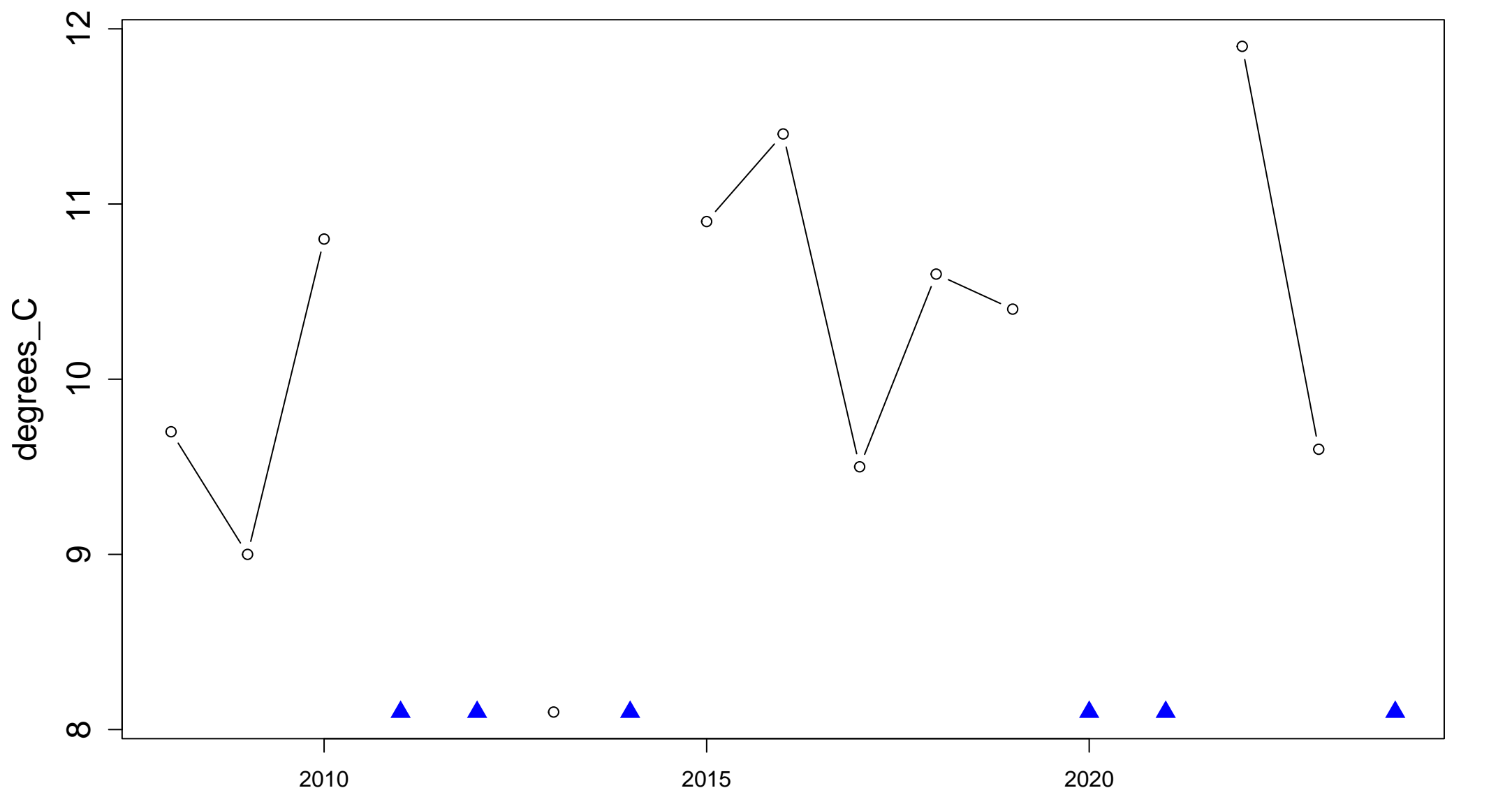
Index: tnx. Monthly warmest daily TN



Sen's slope = 0.004 lower bound =  $-0.003$ , upper bound = 0.012, p-value = 0.219

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

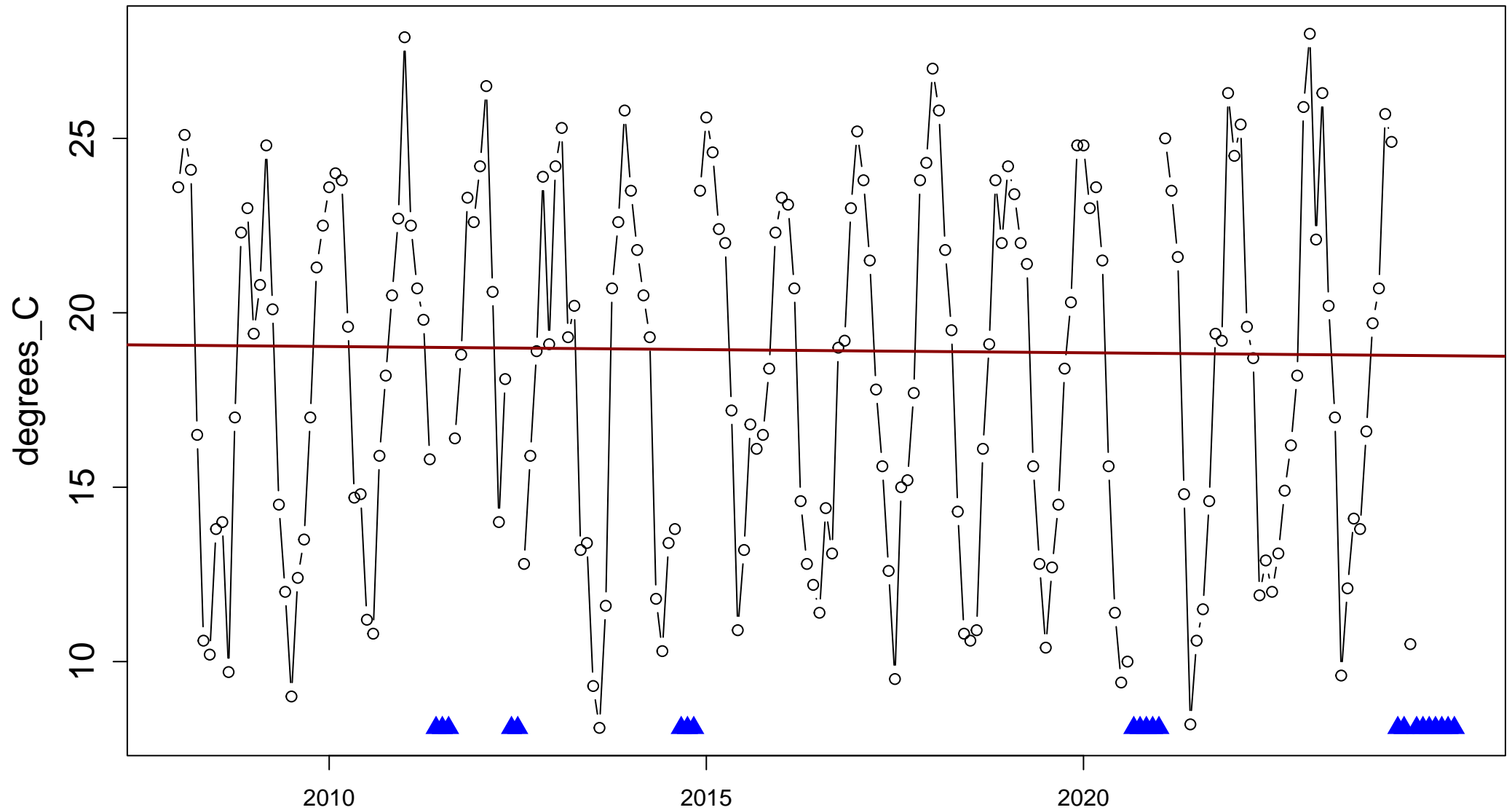
Index: txn. Annual coldest daily TX



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.7249999°S, −53.7205554°W]

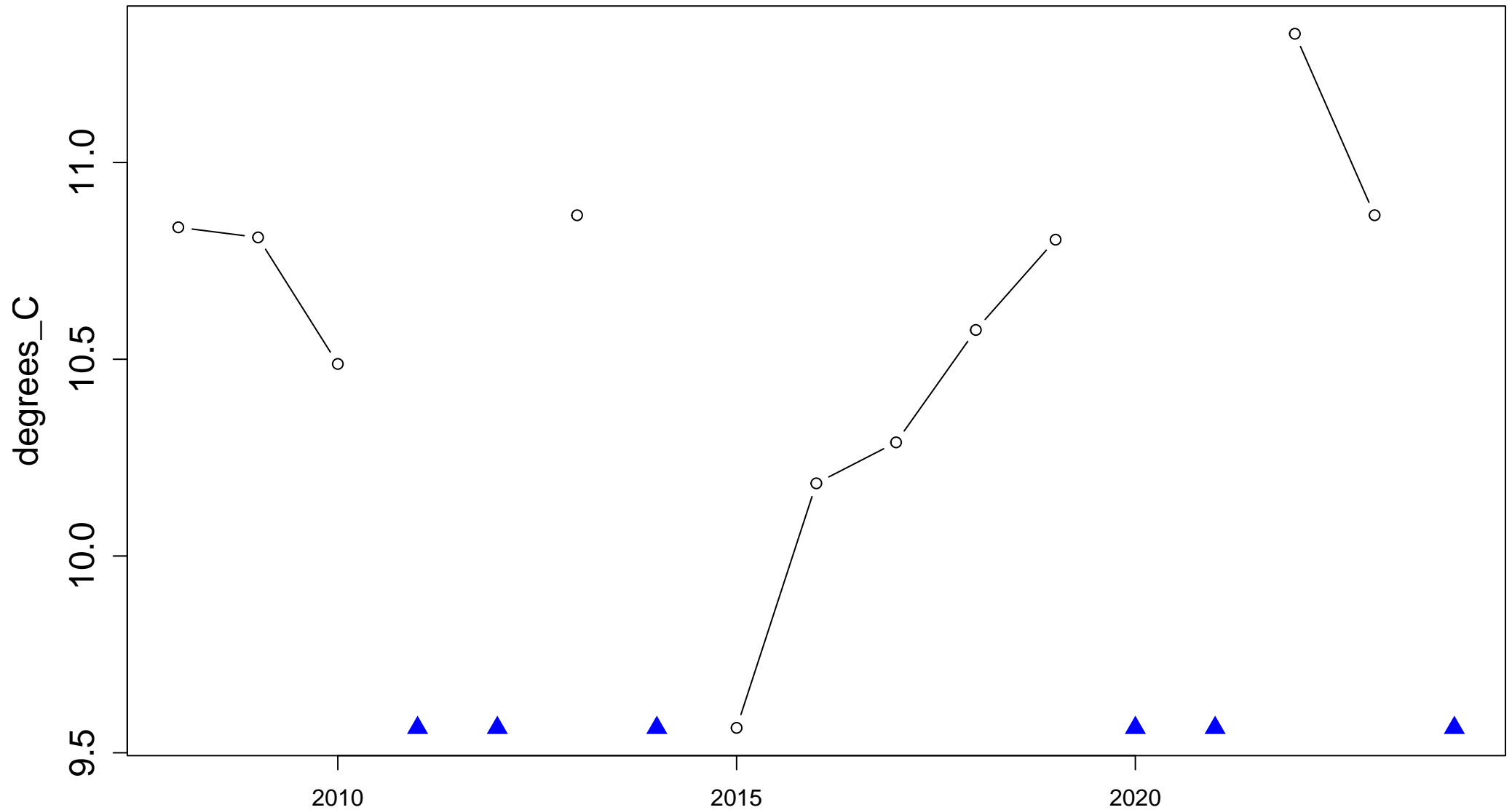
Index: txn. Monthly coldest daily TX



Sen's slope =  $-0.001$  lower bound =  $-0.015$ , upper bound =  $0.013$ , p-value =  $0.857$

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

Index: dtr. Mean annual difference between daily TX and daily TN

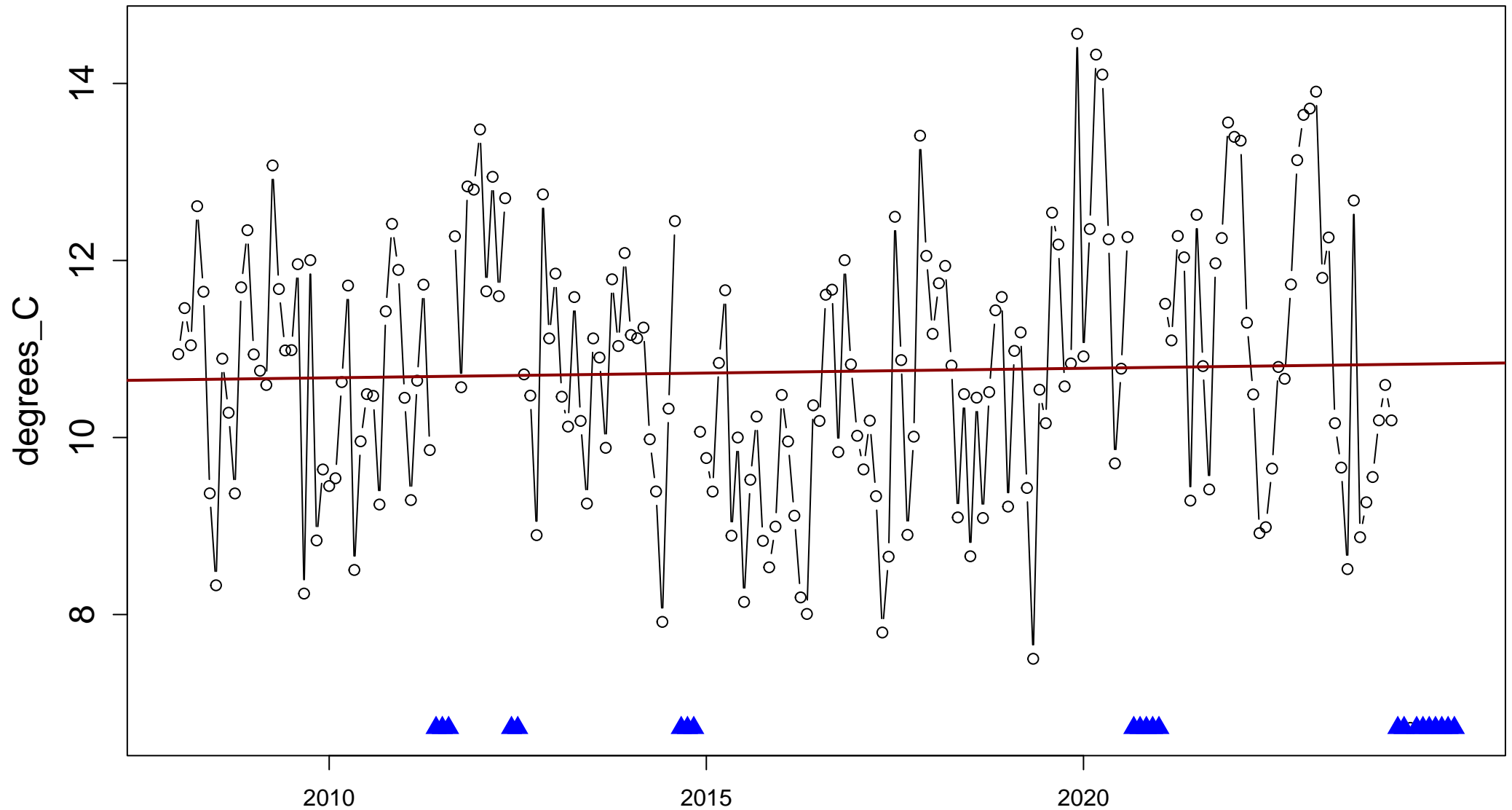


NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.



# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

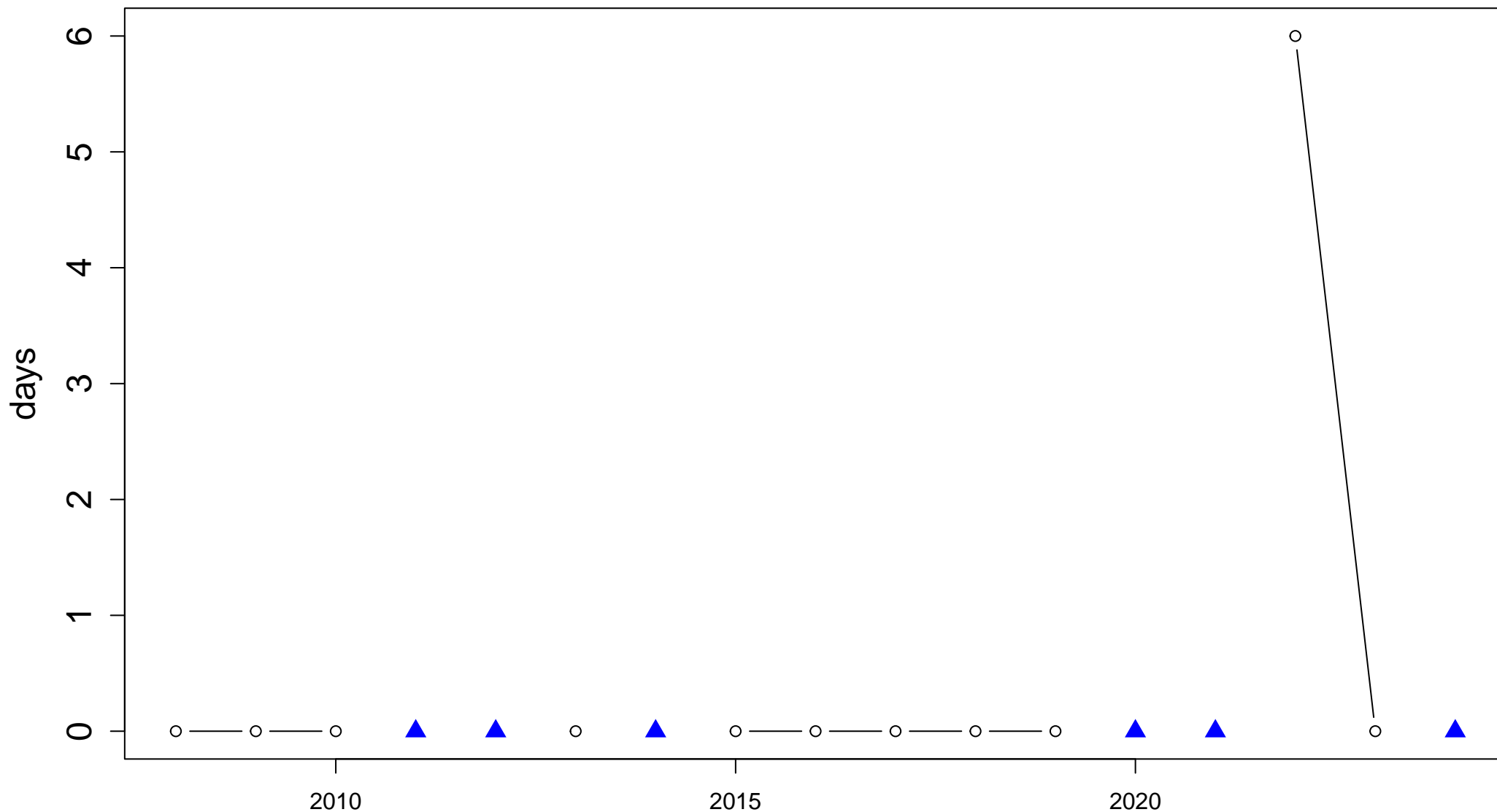
Index: dtr. Mean monthly difference between daily TX and daily TN



Sen's slope = 0.001 lower bound = -0.003, upper bound = 0.005, p-value = 0.65

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

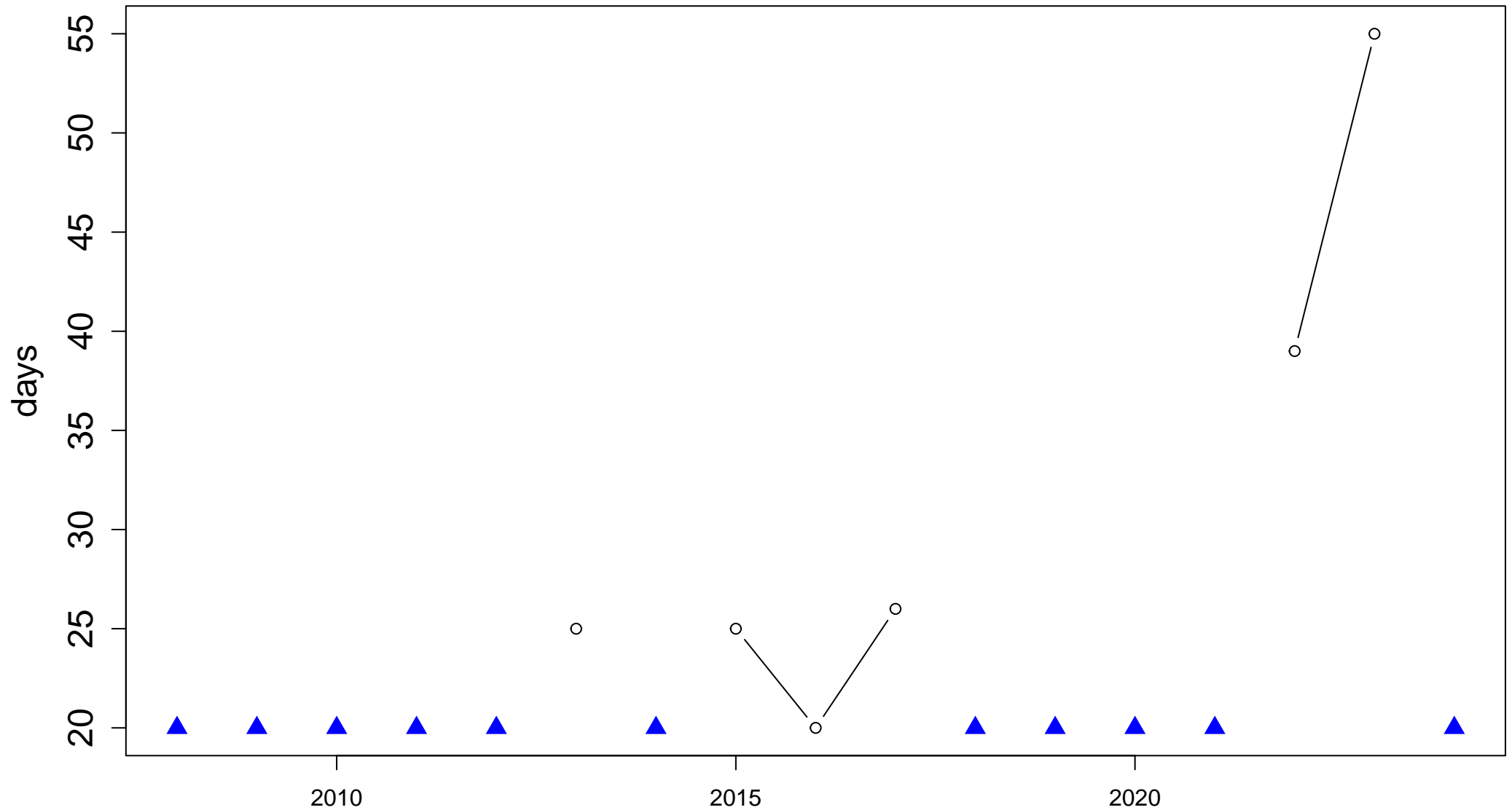
Index: wsdi. Annual number of days contributing to events where 6 or more consecutive days  
experience TX > 90th percentile



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

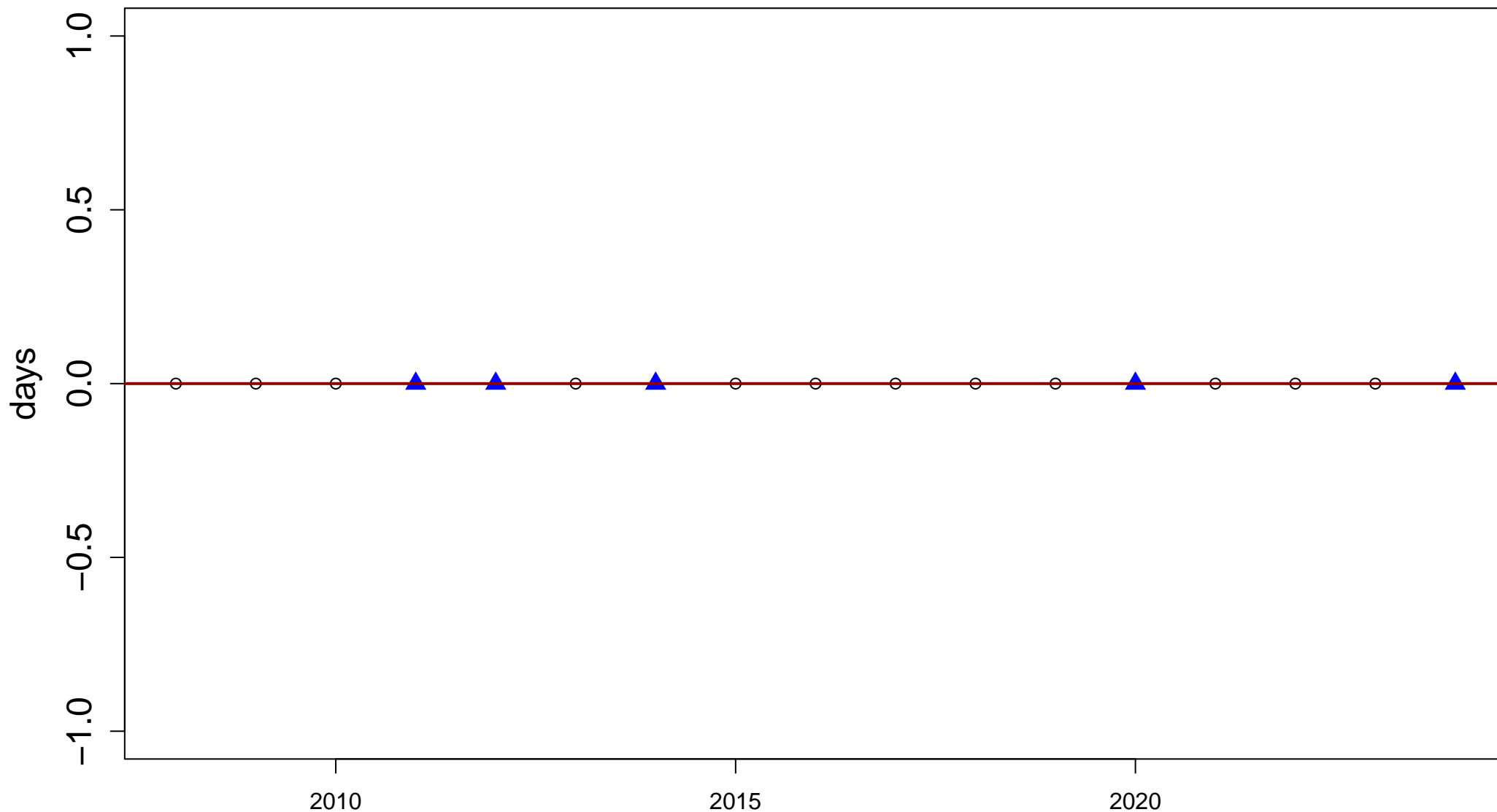
Index: wsd1. Annual number of days with at least 1 consecutive days when TX > 90th percentile



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

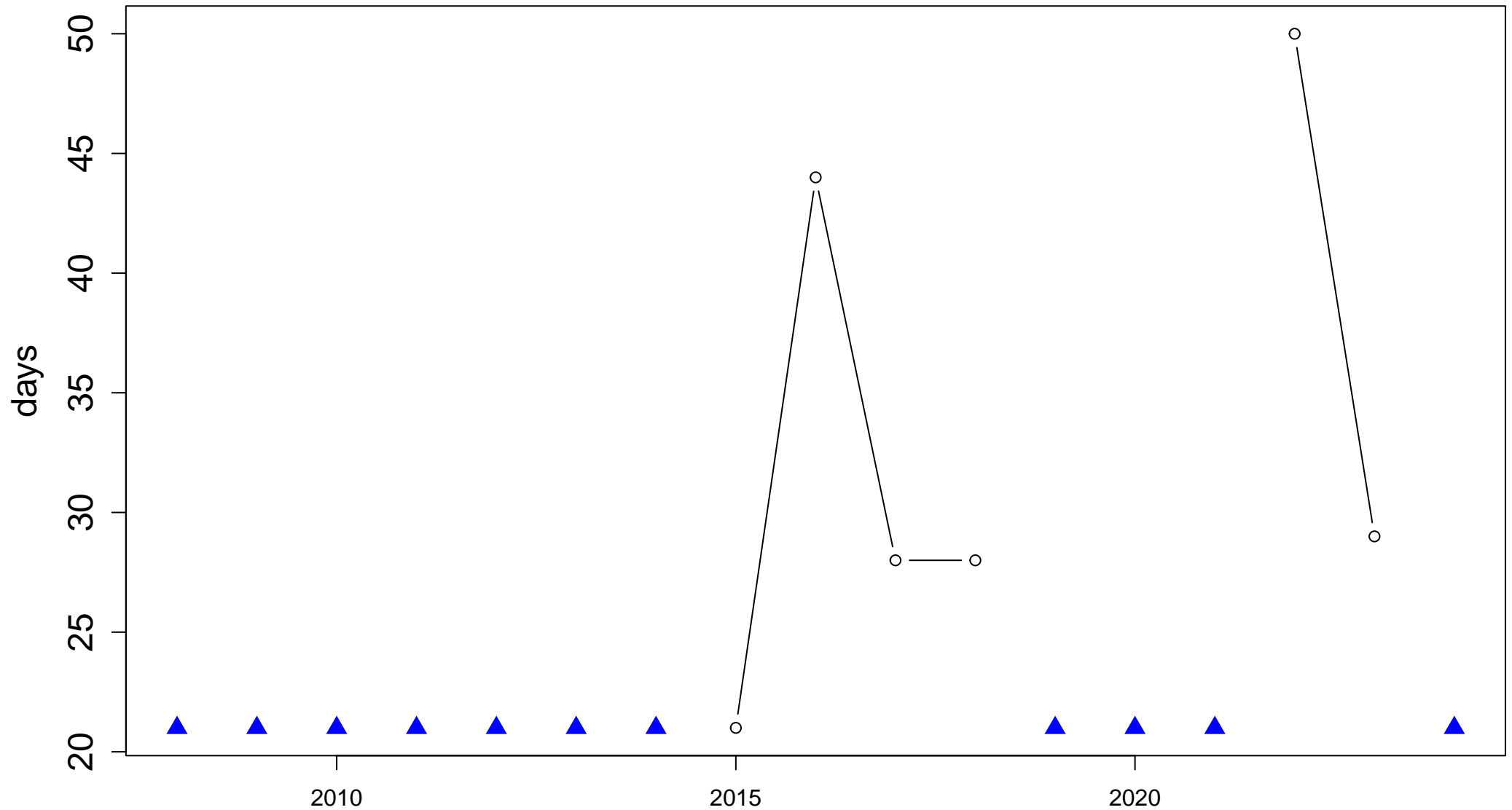
Index: csdi. Annual number of days contributing to events where 6 or more consecutive days  
experience TN < 10th percentile



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 1

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

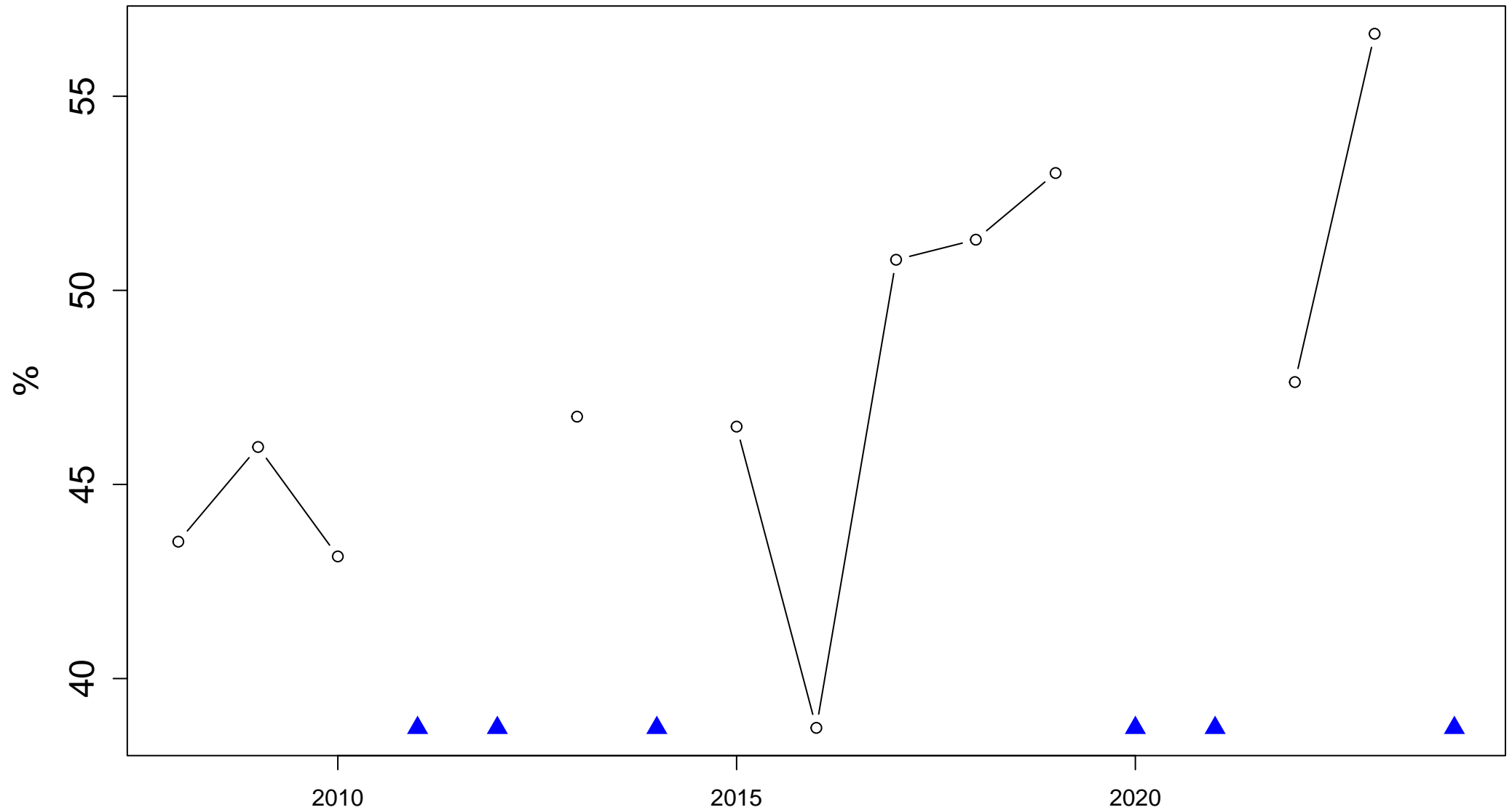
Index: csdi1. Annual number of days with at least 1 consecutive days when TN < 10th percentile



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

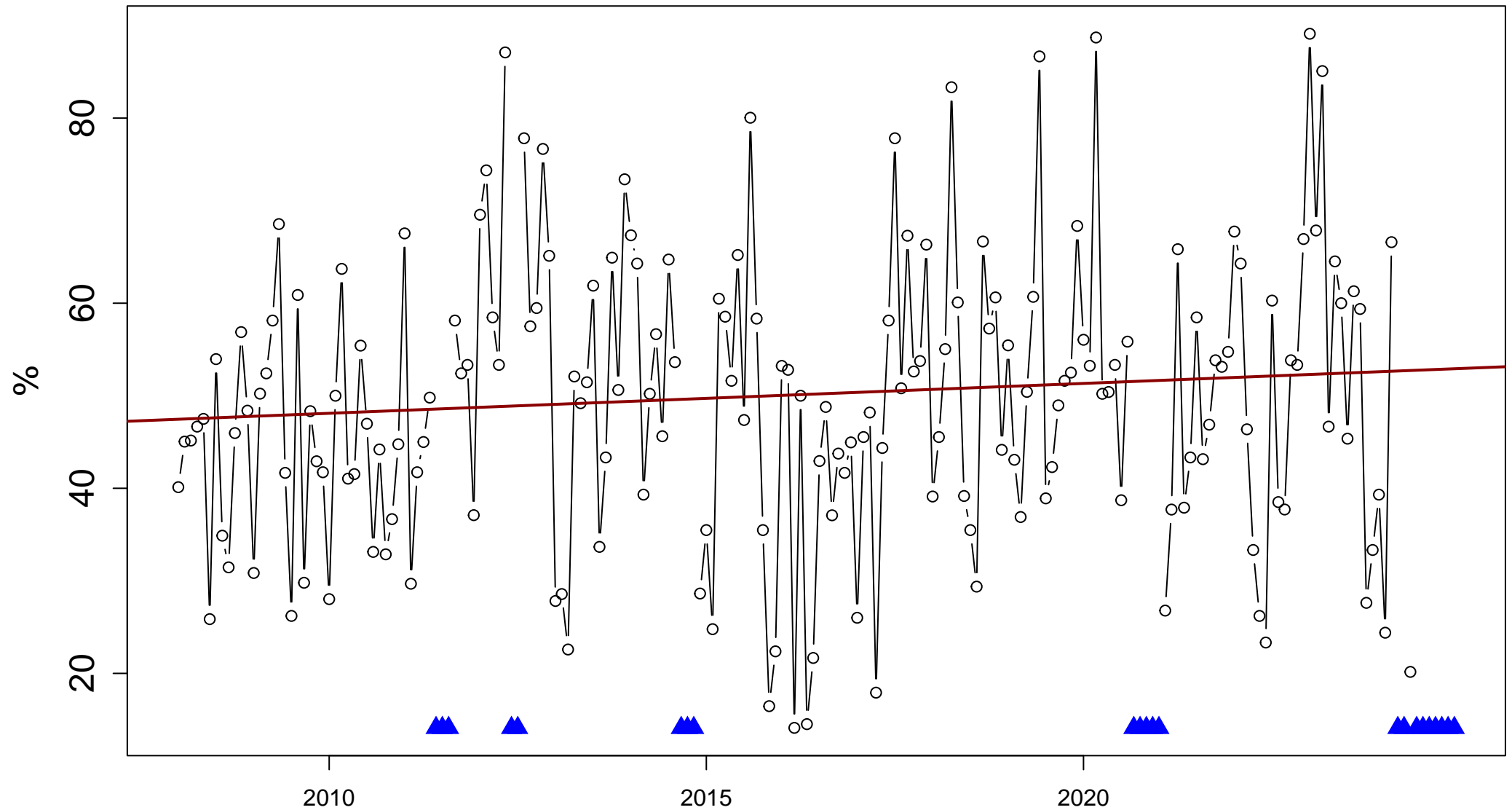
Index: txgt50p. Annual percentage of days when TX > 50th percentile



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

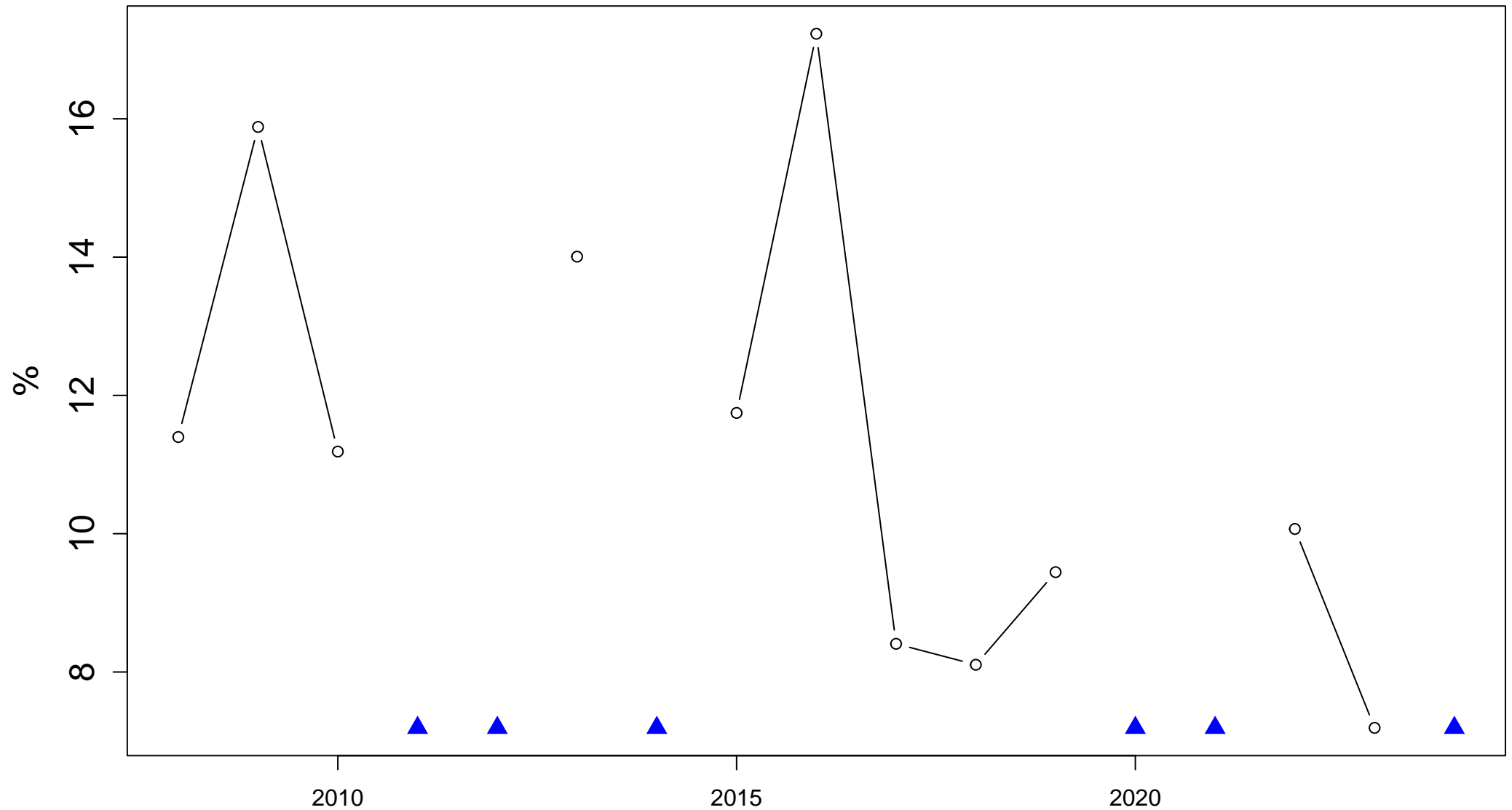
Index: txgt50p. Monthly percentage of days when TX > 50th percentile



Sen's slope = 0.027 lower bound = −0.013, upper bound = 0.066, p-value = 0.173

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

Index: tx10p. Annual percentage of days when TX < 10th percentile

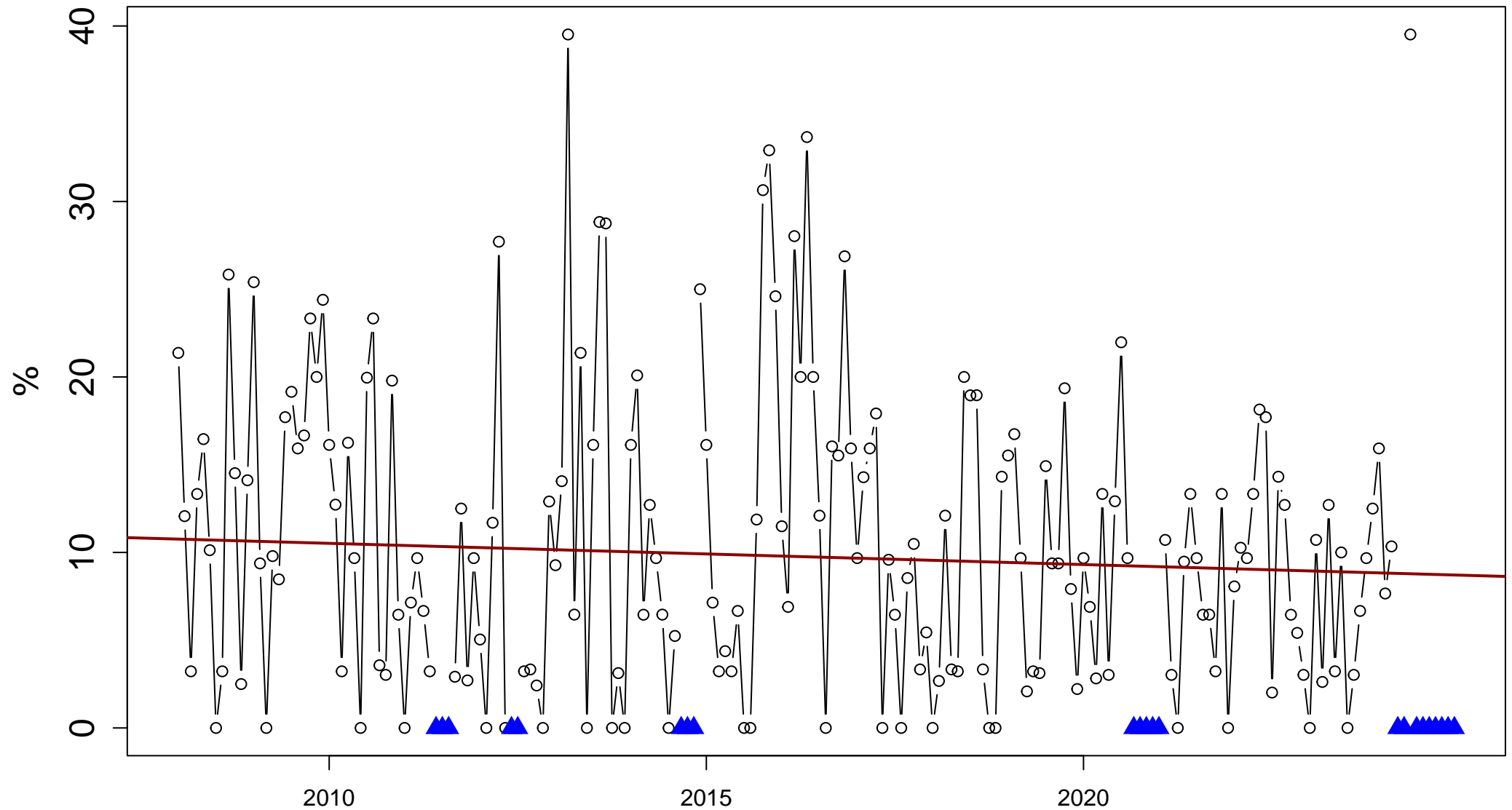


NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.



# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

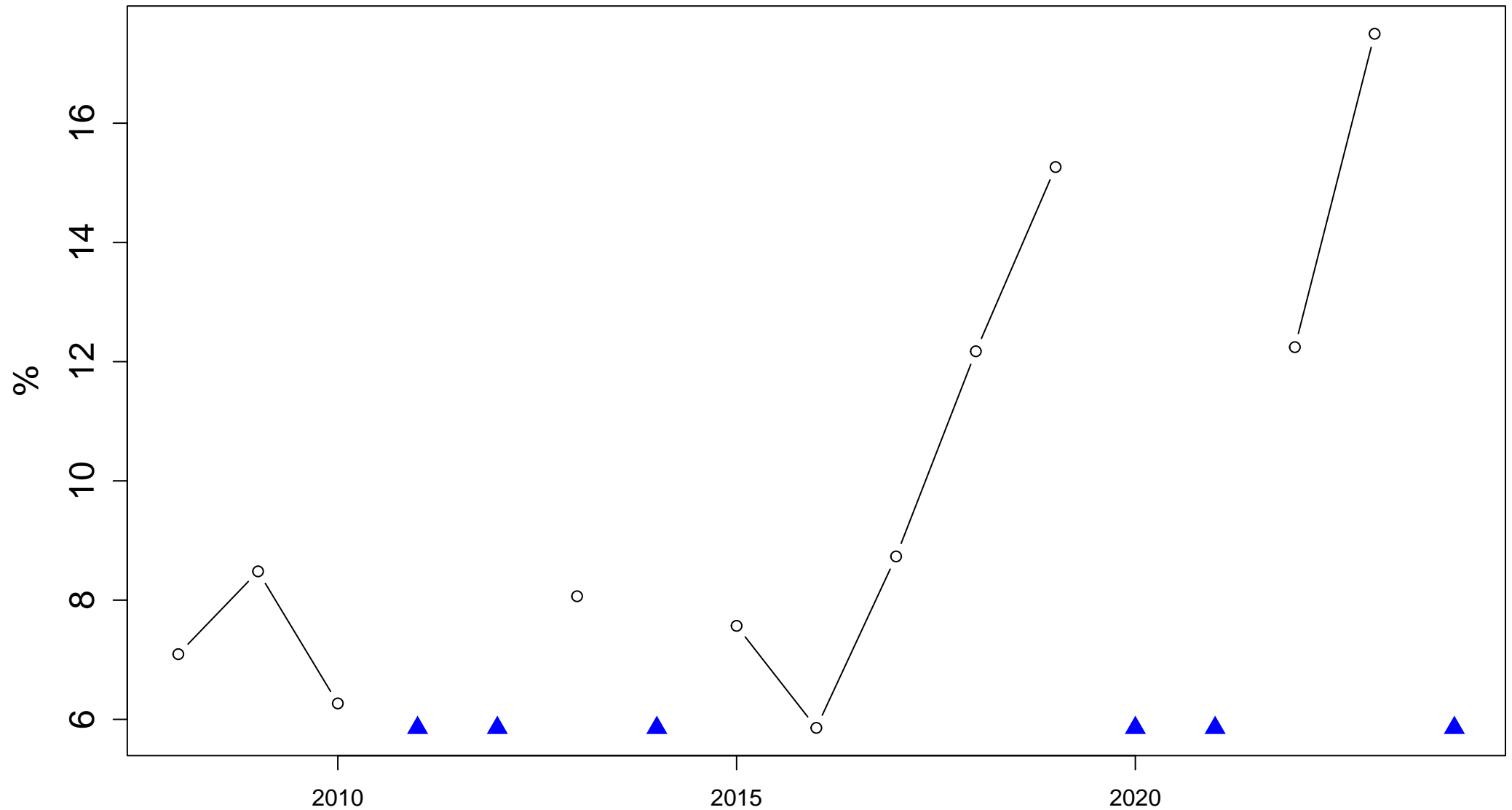
Index: tx10p. Monthly percentage of days when TX < 10th percentile



Sen's slope =  $-0.01$  lower bound =  $-0.035$ , upper bound =  $0$ , p-value =  $0.136$

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

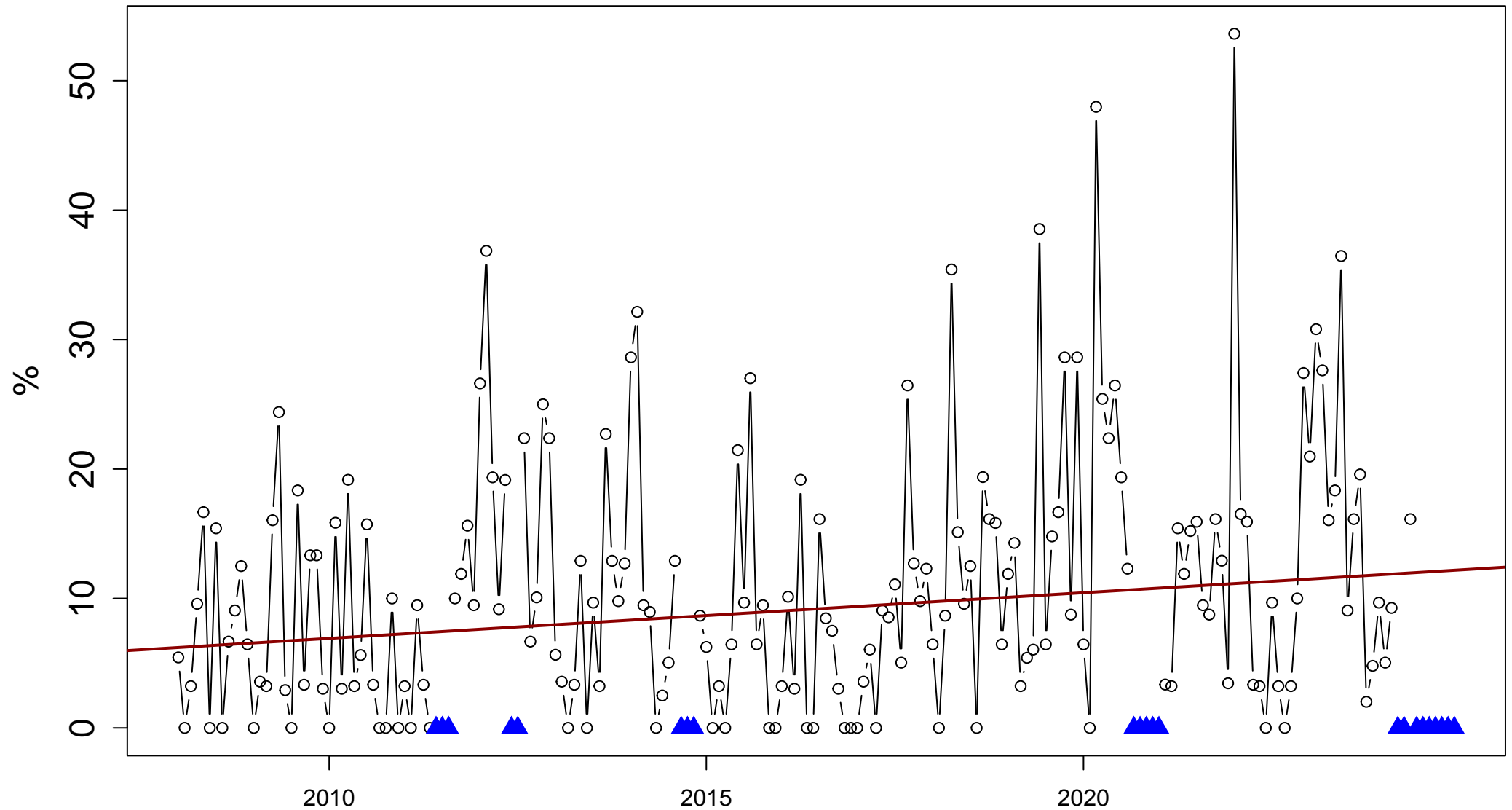
Index: tx90p. Annual percentage of days when TX > 90th percentile



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

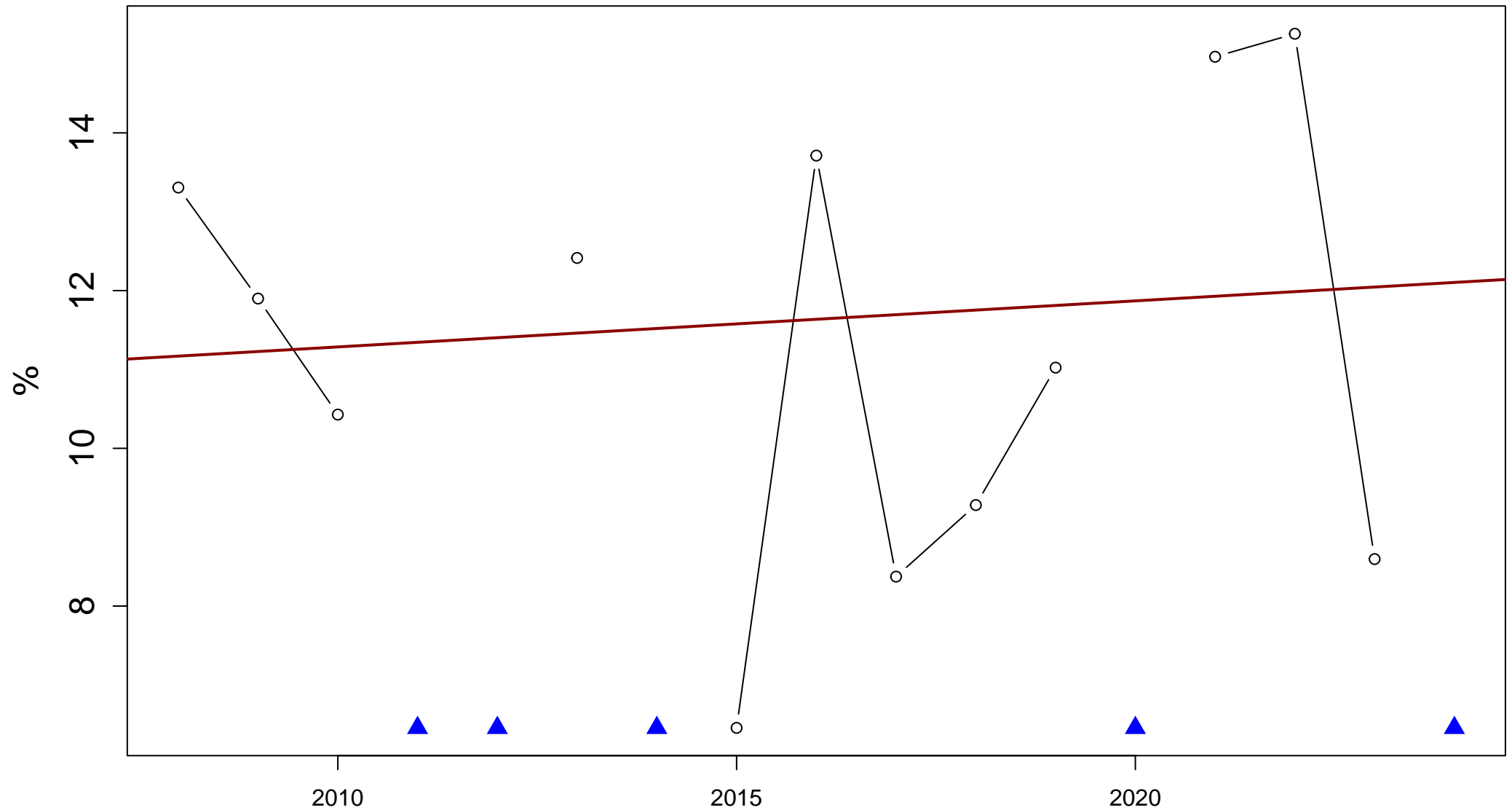
Index: tx90p. Monthly percentage of days when TX > 90th percentile



Sen's slope = 0.029 lower bound = 0.003, upper bound = 0.053, p-value = 0.003

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

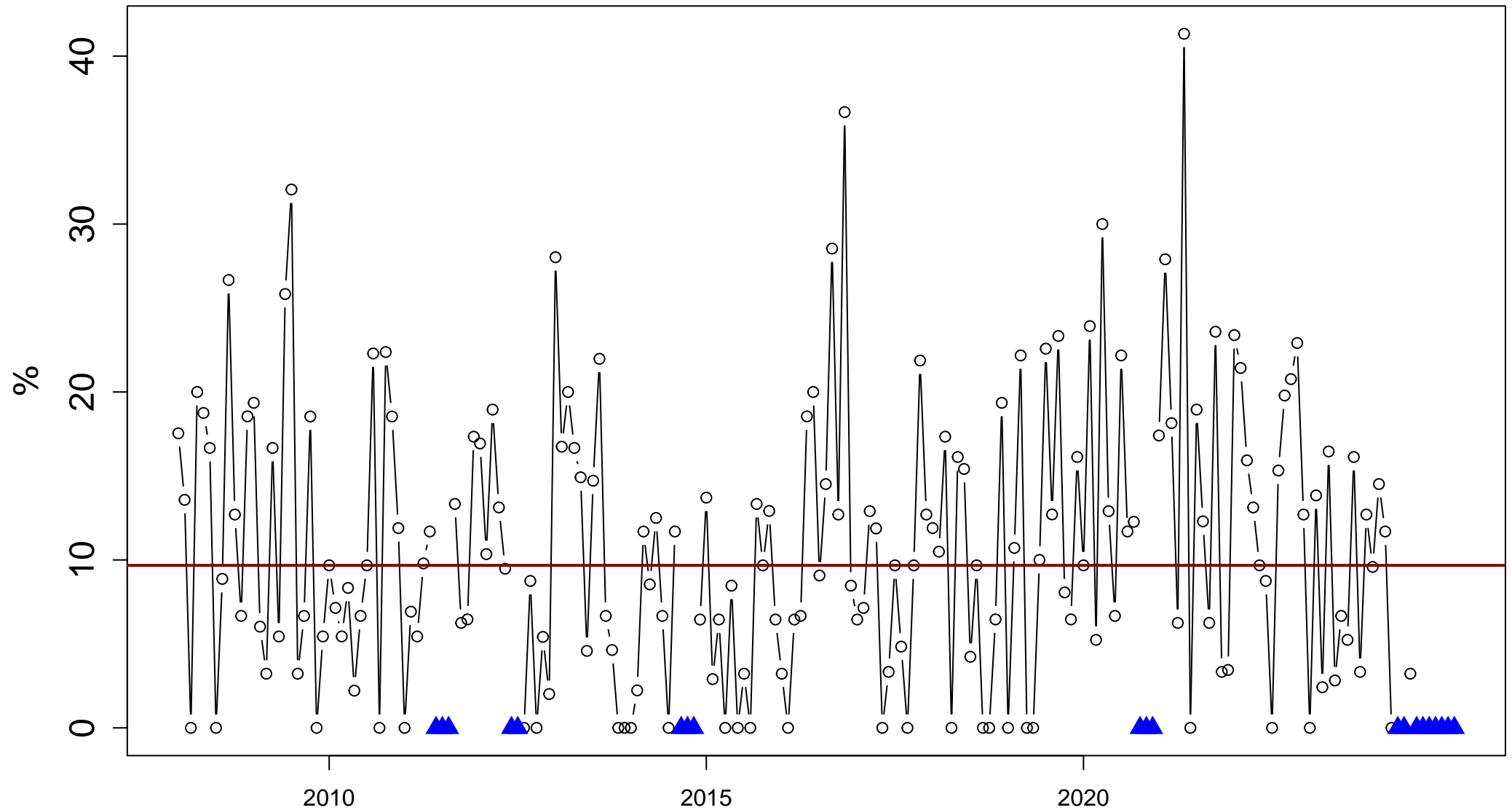
Index: tn10p. Annual percentage of days when TN < 10th percentile



Sen's slope = 0.058 lower bound = −0.403, upper bound = 0.402, p-value = 0.837

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

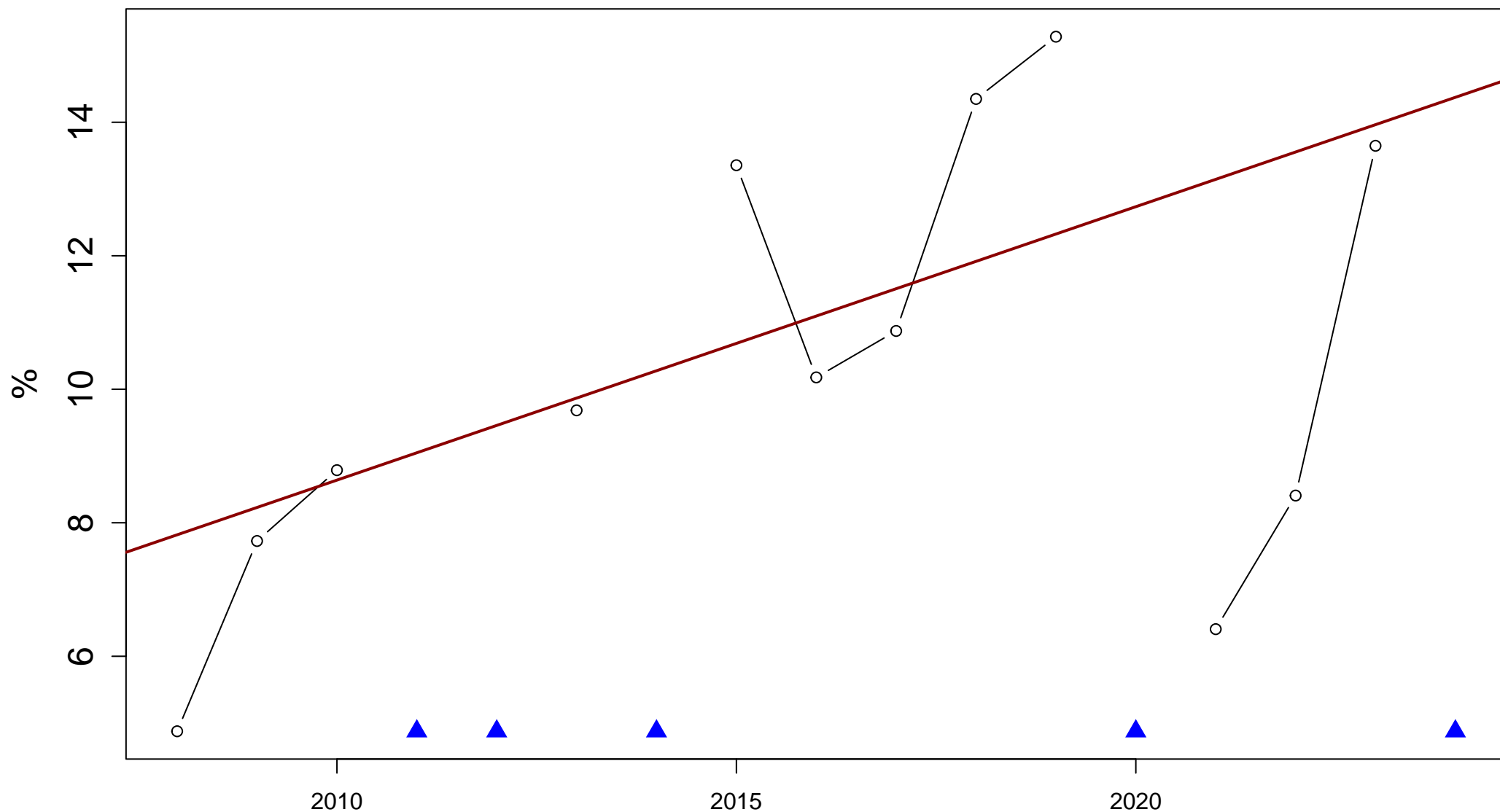
Index: tn10p. Monthly percentage of days when TN < 10th percentile



Sen's slope = 0 lower bound = -0.01, upper bound = 0.026, p-value = 0.59

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

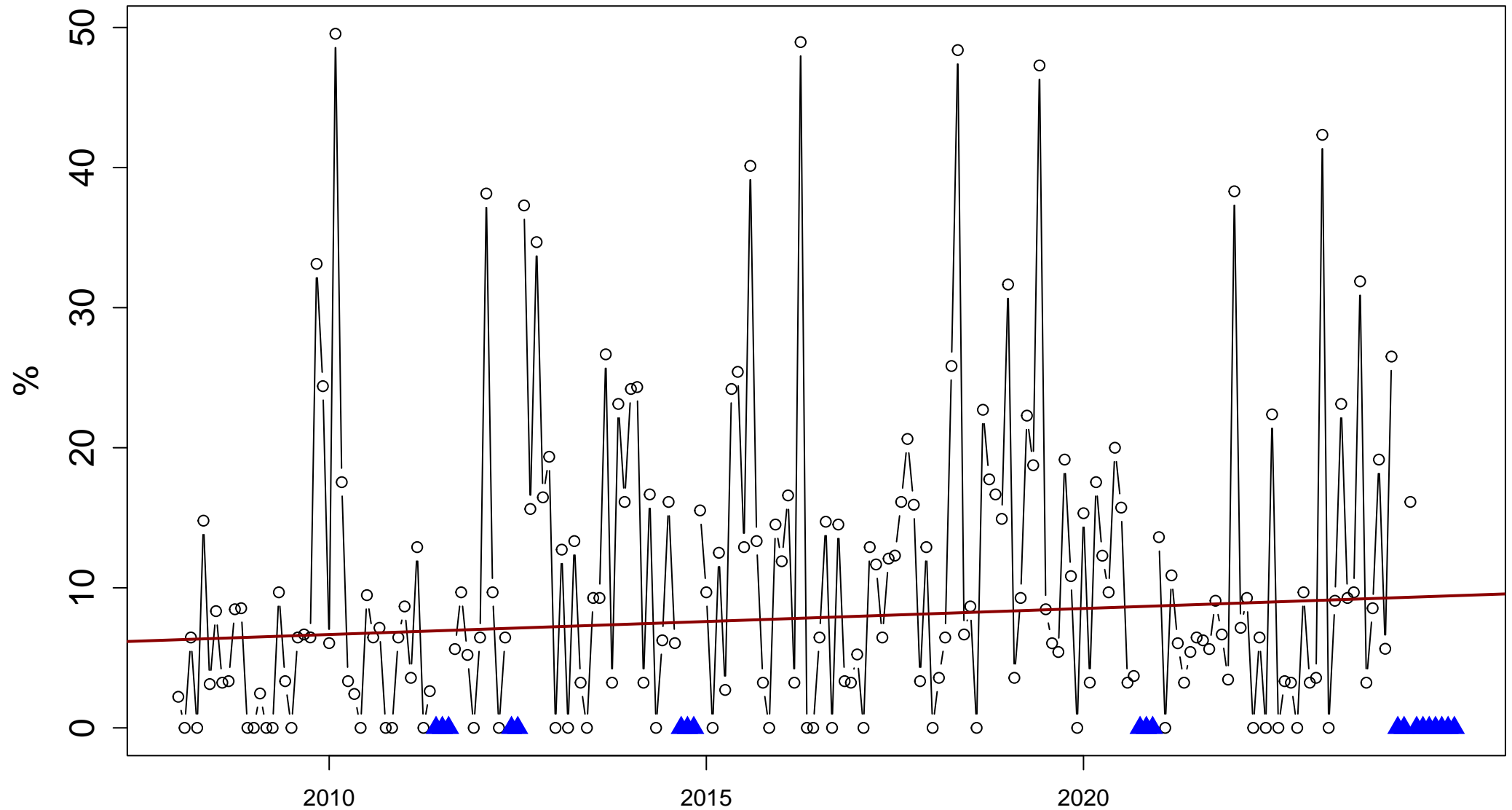
Index: tn90p. Annual percentage of days when TN > 90th percentile



Sen's slope = 0.41 lower bound = −0.032, upper bound = 0.914, p-value = 0.064

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

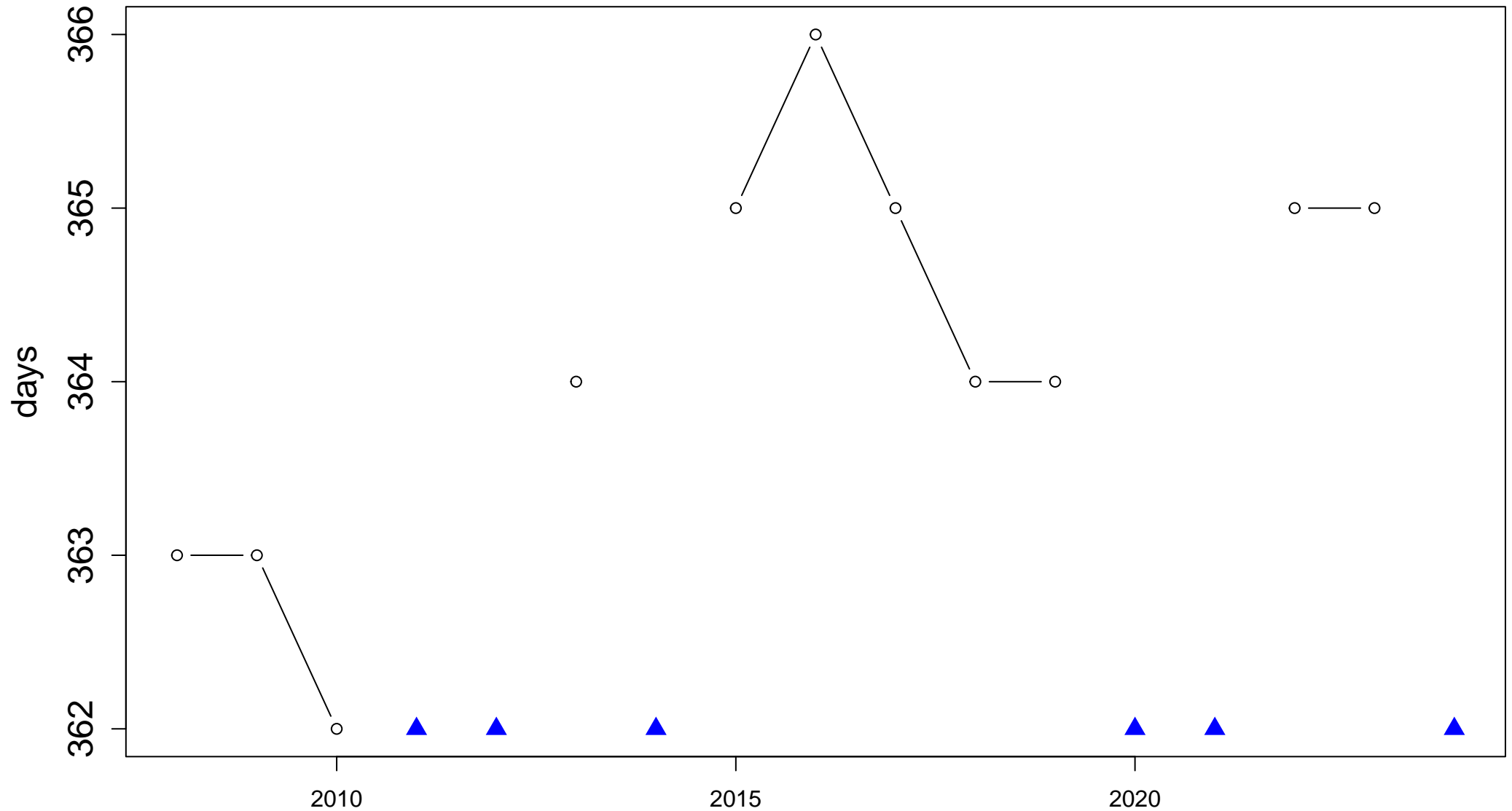
Index: tn90p. Monthly percentage of days when TN > 90th percentile



Sen's slope = 0.015 lower bound = 0, upper bound = 0.038, p-value = 0.048

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

Index: tmge5. Annual number of days when TM  $\geq$  5 degrees\_C

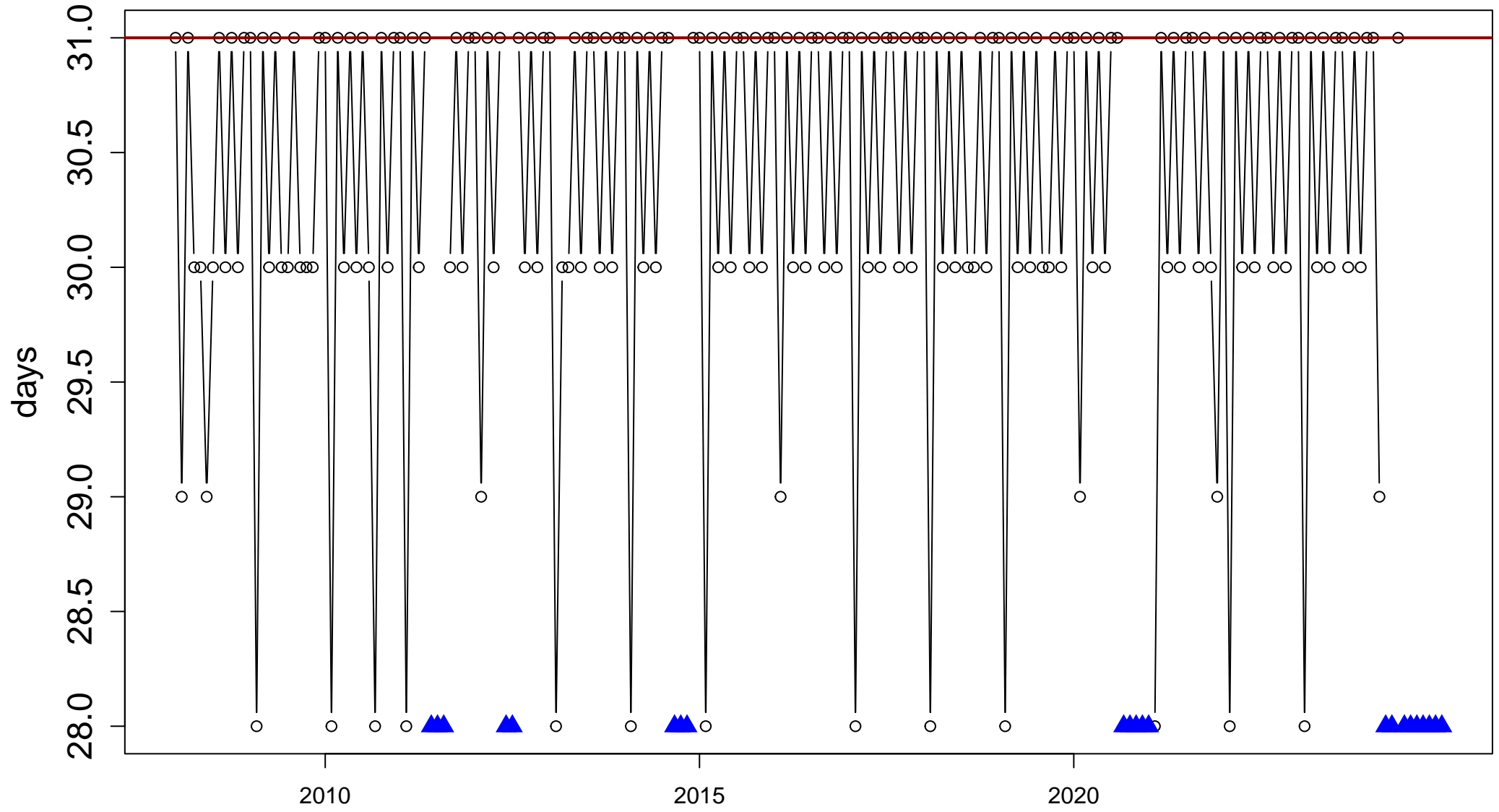


NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.



# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

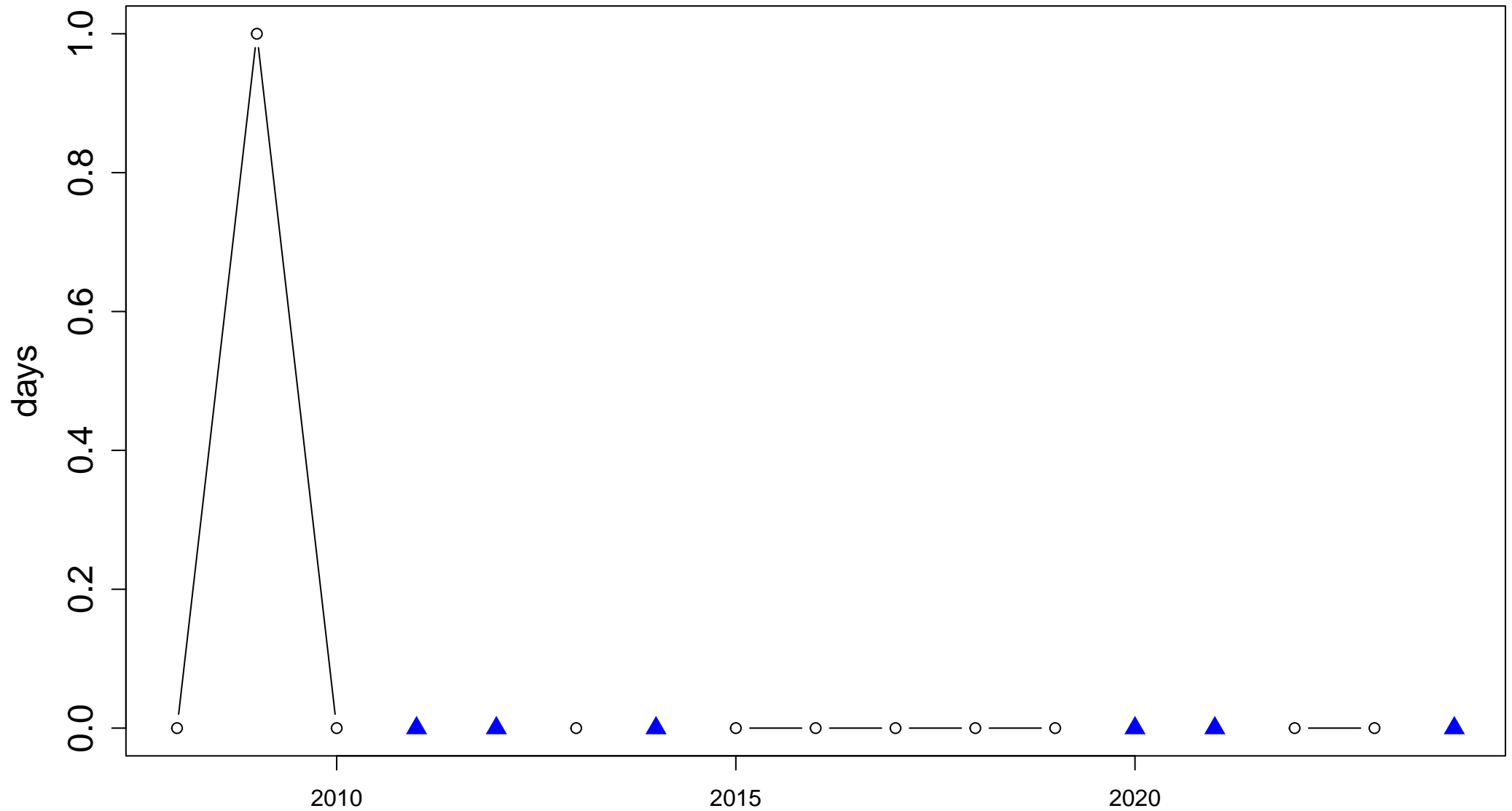
Index: tmge5. Monthly number of days when TM >= 5 degrees\_C



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 0.414

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

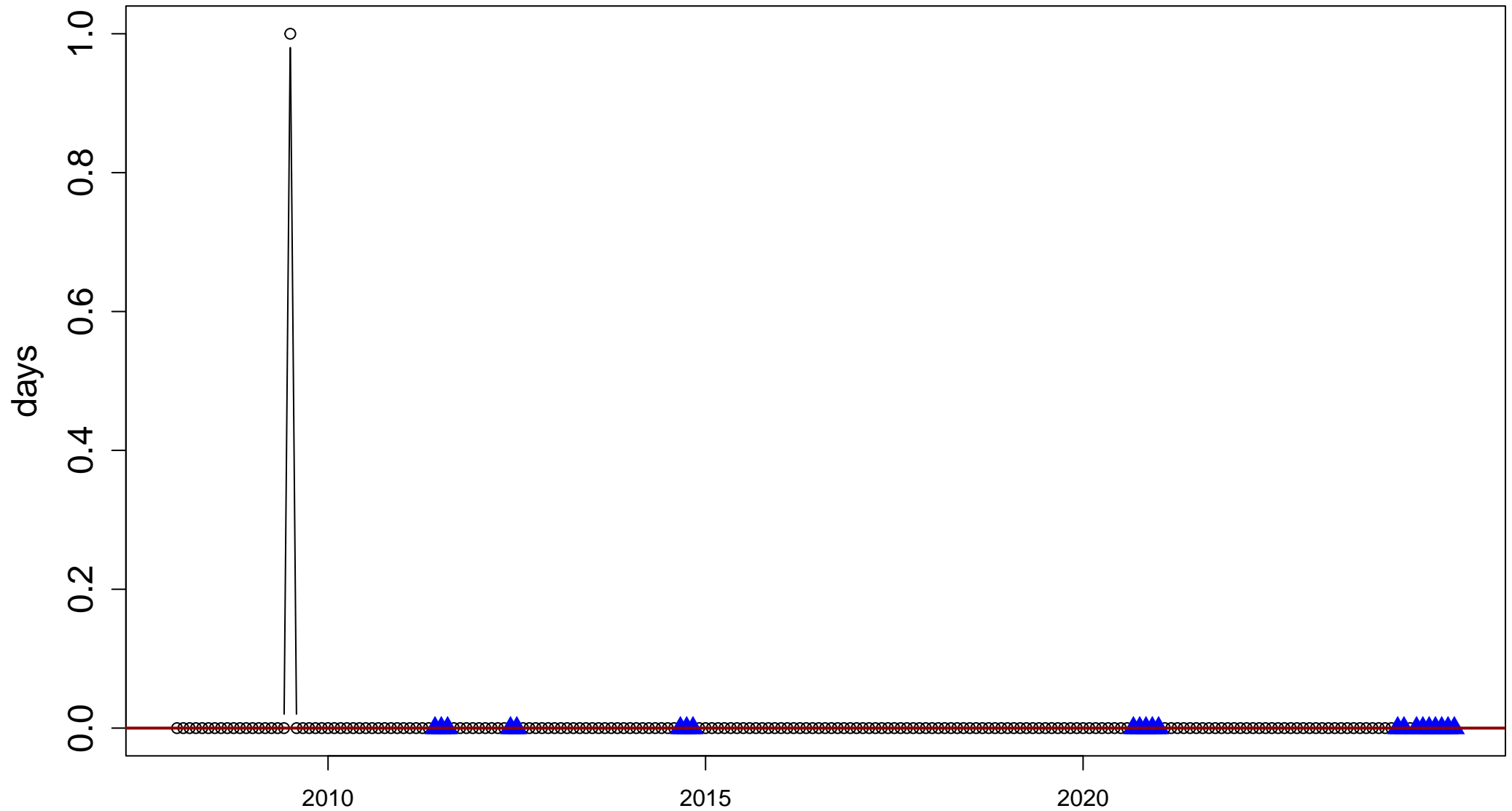
Index: tmlt5. Annual number of days when TM < 5 degrees\_C



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

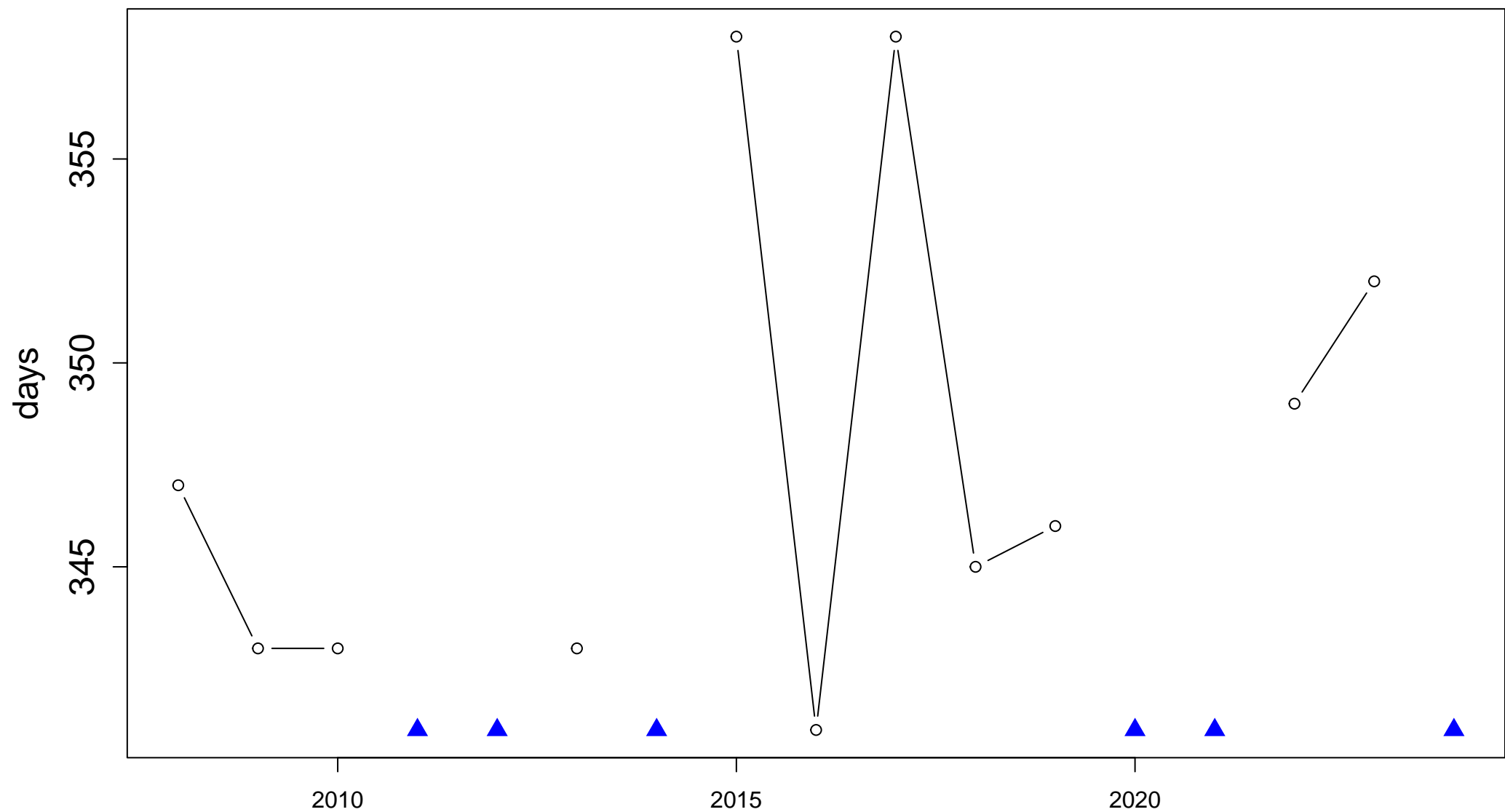
Index: tmlt5. Monthly number of days when TM < 5 degrees\_C



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 0.171

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

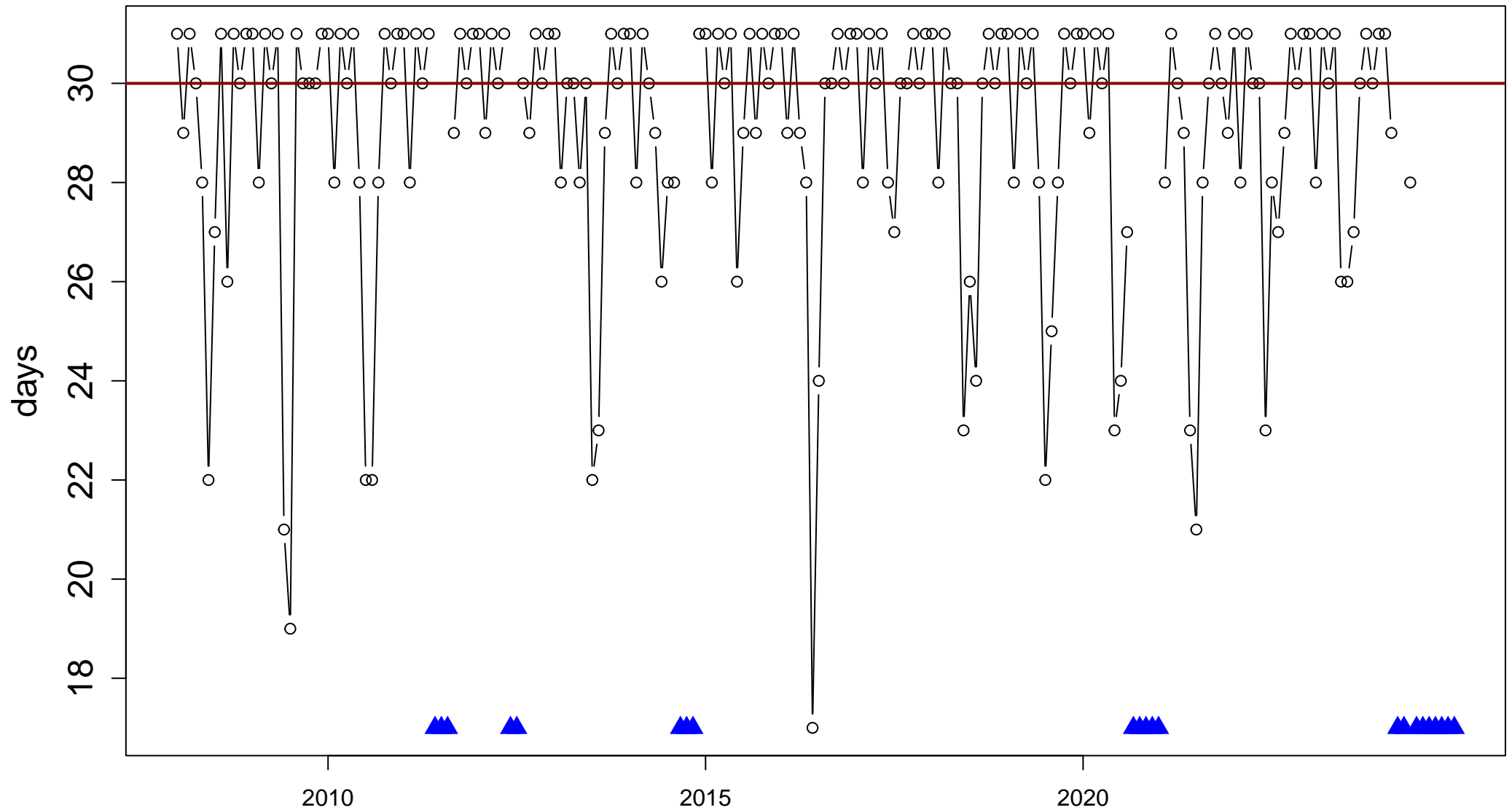
Index: tmge10. Annual number of days when TM >= 10 degrees\_C



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [-29.7249999°S, -53.7205554°W]

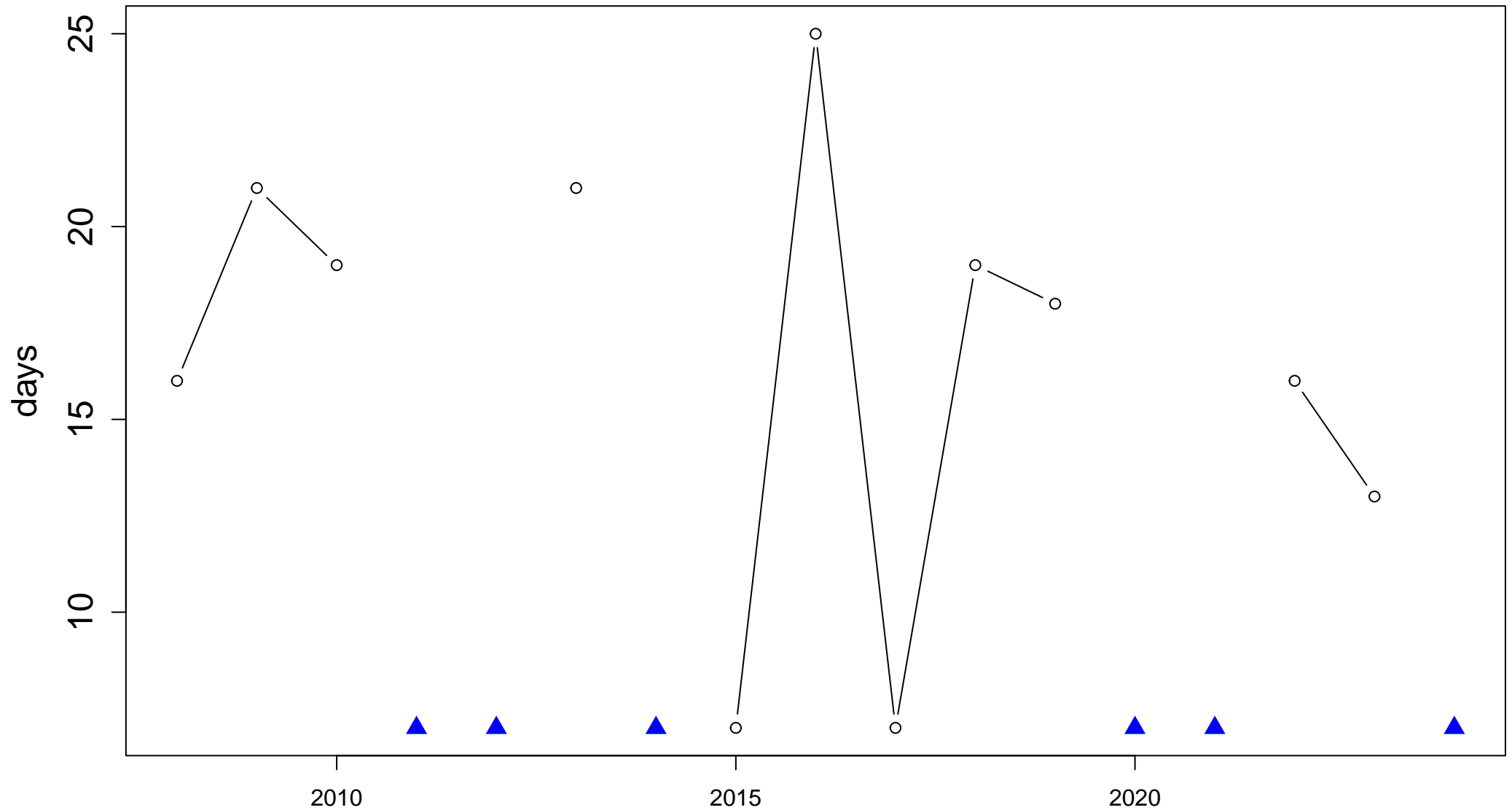
Index: tmge10. Monthly number of days when TM >= 10 degrees\_C



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 0.313

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

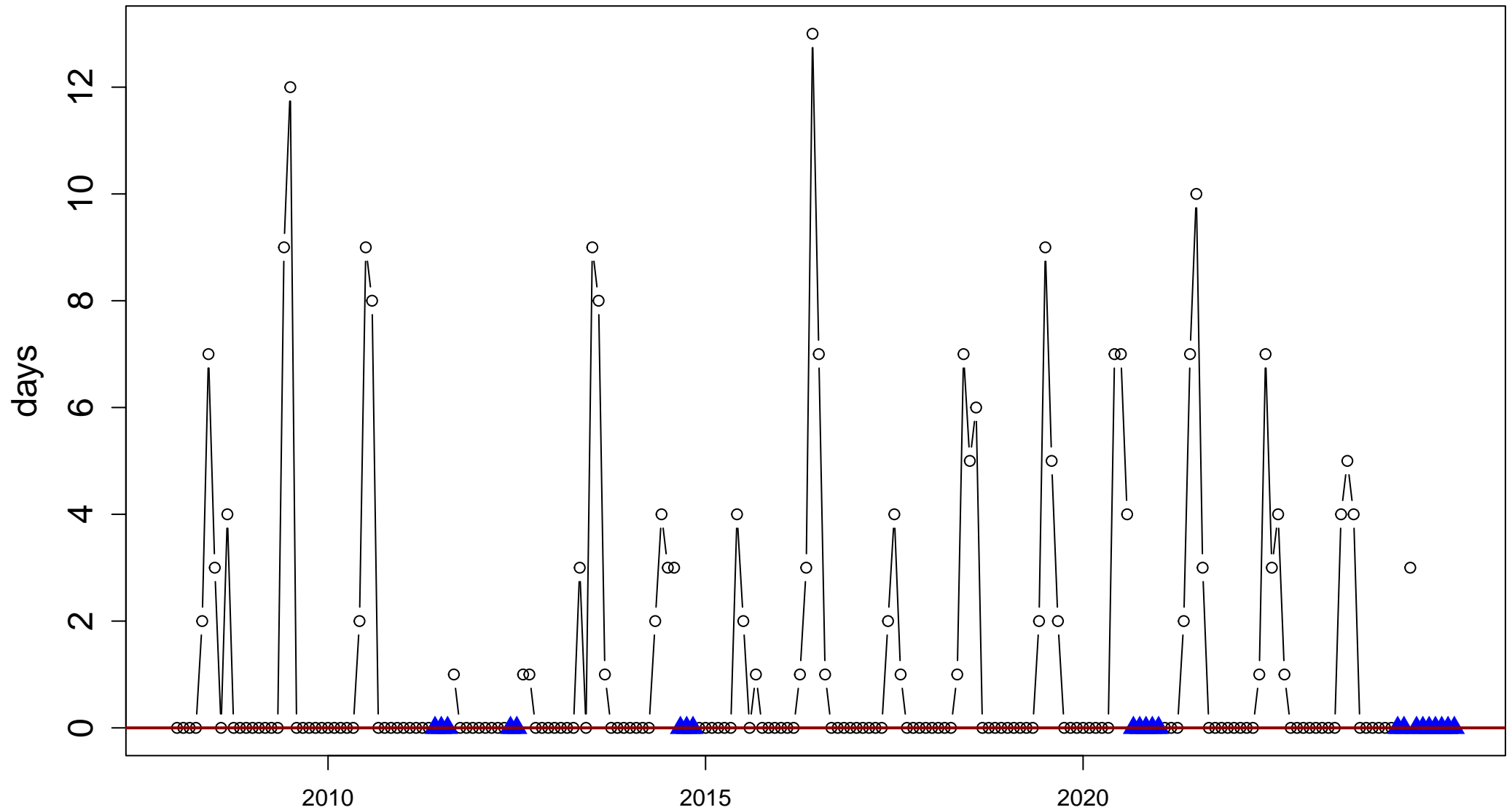
Index: tmlt10. Annual number of days when TM < 10 degrees\_C



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

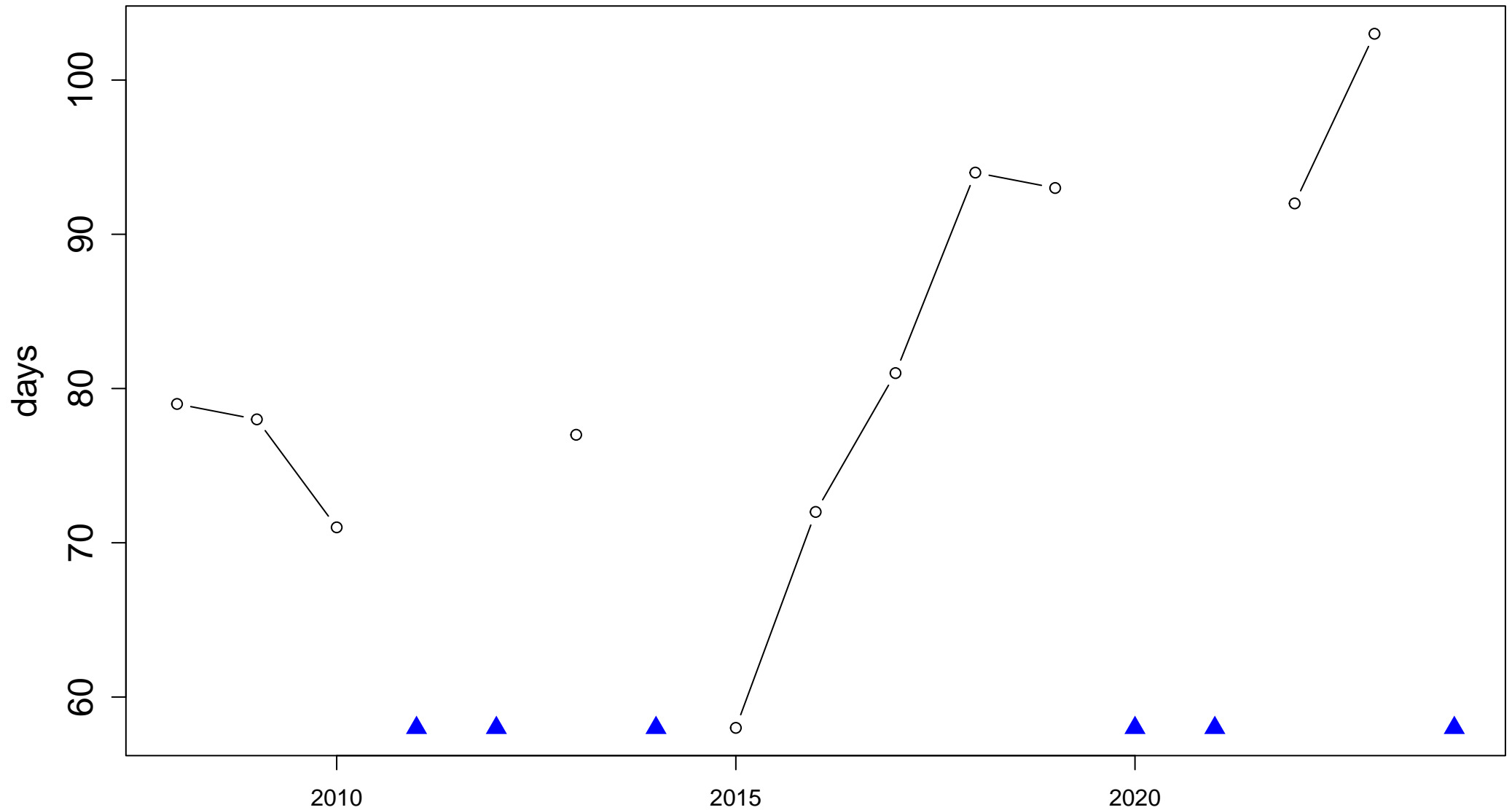
Index: tmlt10. Monthly number of days when TM < 10 degrees\_C



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 0.231

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

Index: txge30. Annual number of days when TX  $\geq$  30 degrees\_C

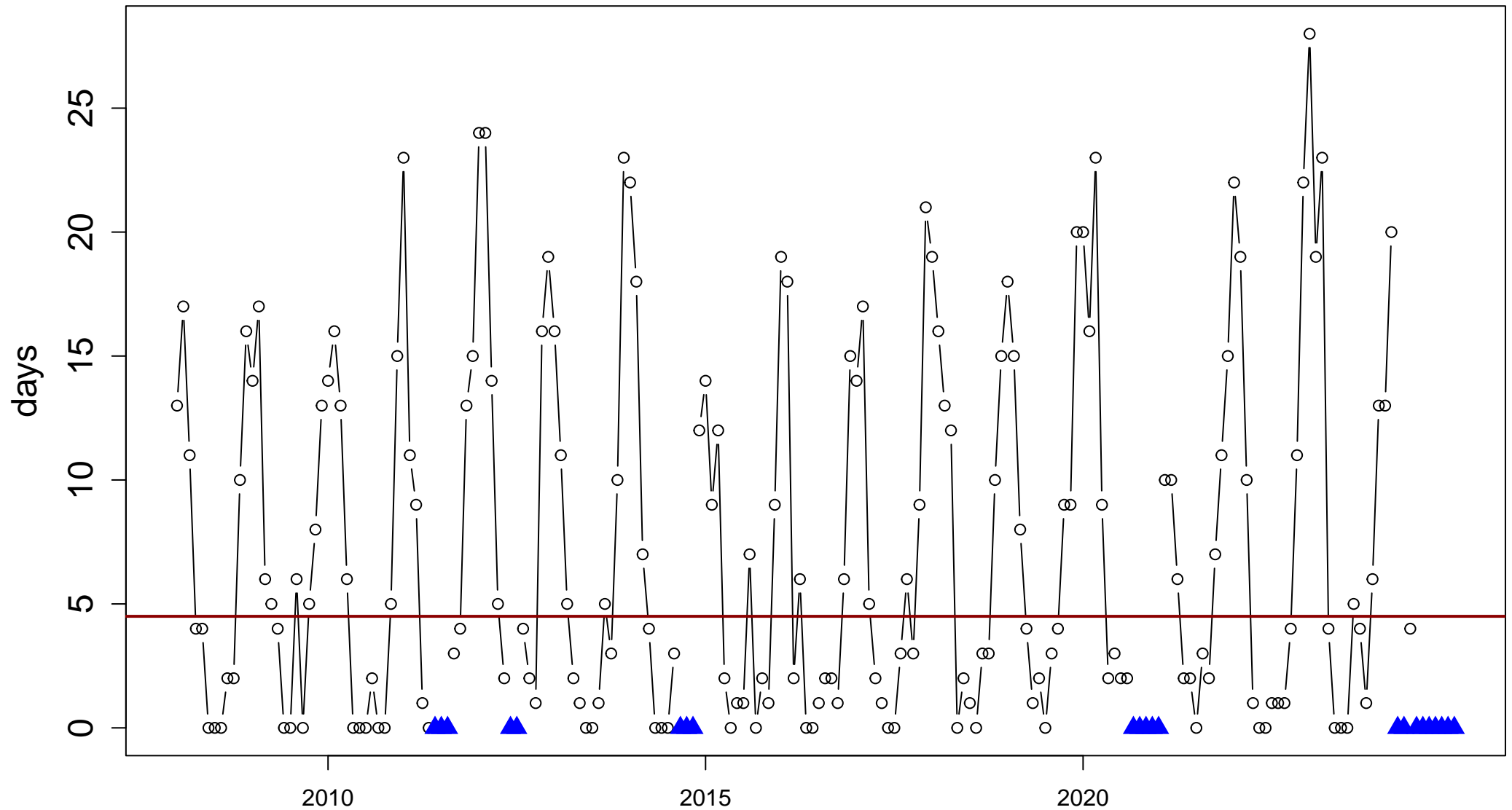


NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.



# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

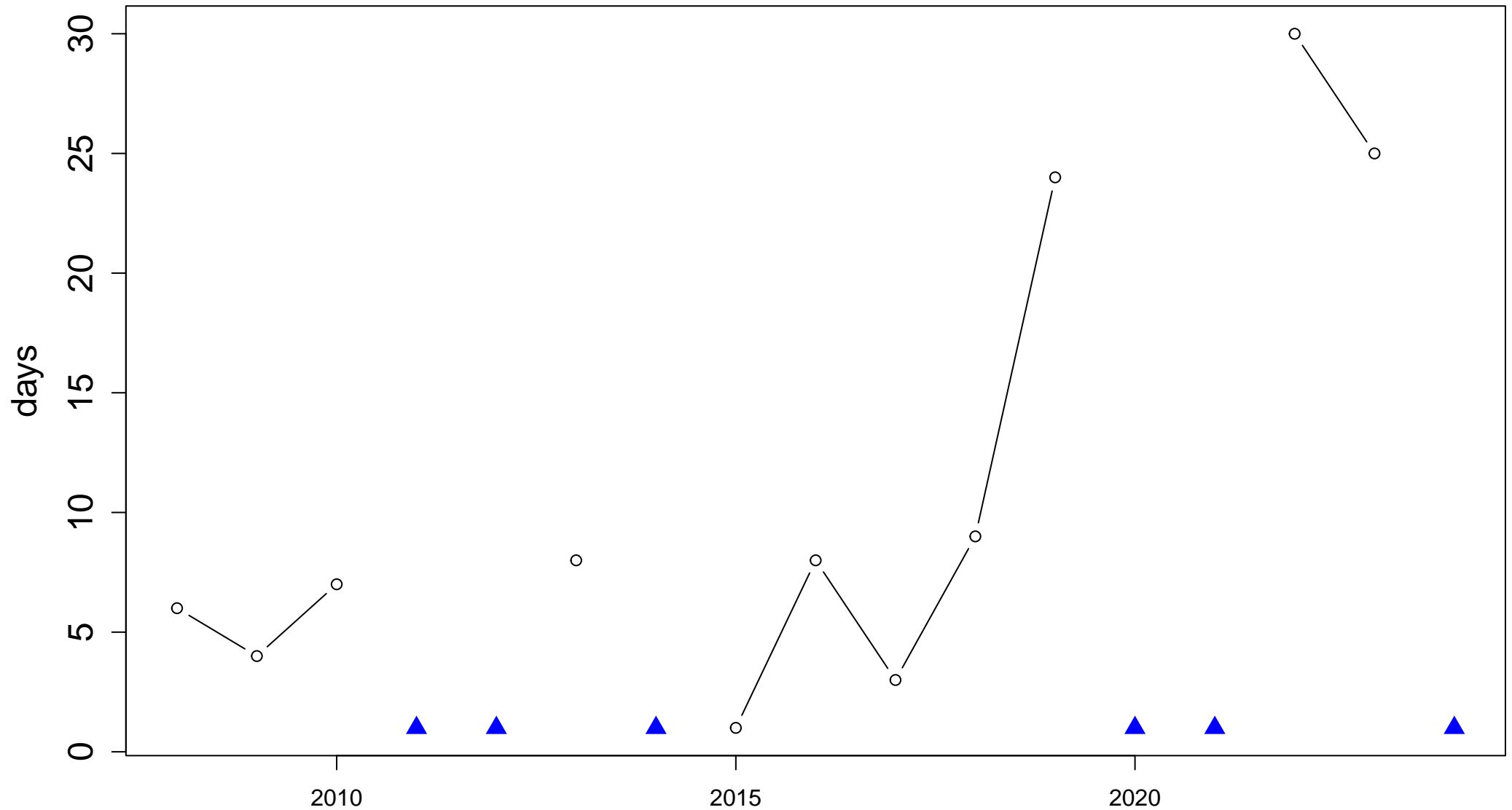
Index: txge30. Monthly number of days when TX  $\geq$  30 degrees\_C



Sen's slope = 0 lower bound = 0, upper bound = 0.015, p-value = 0.562

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

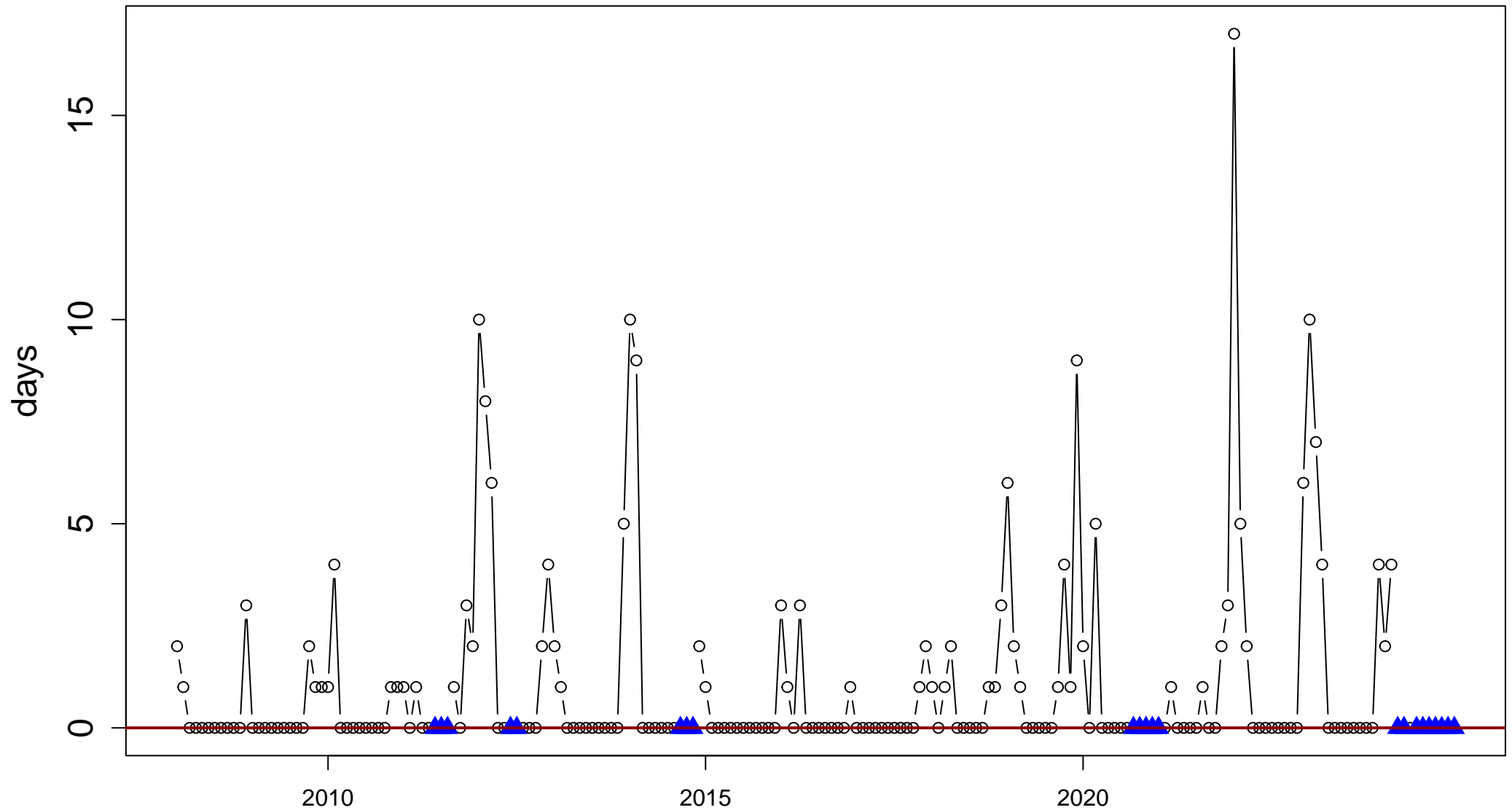
Index: txge35. Annual number of days when TX  $\geq$  35 degrees\_C



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

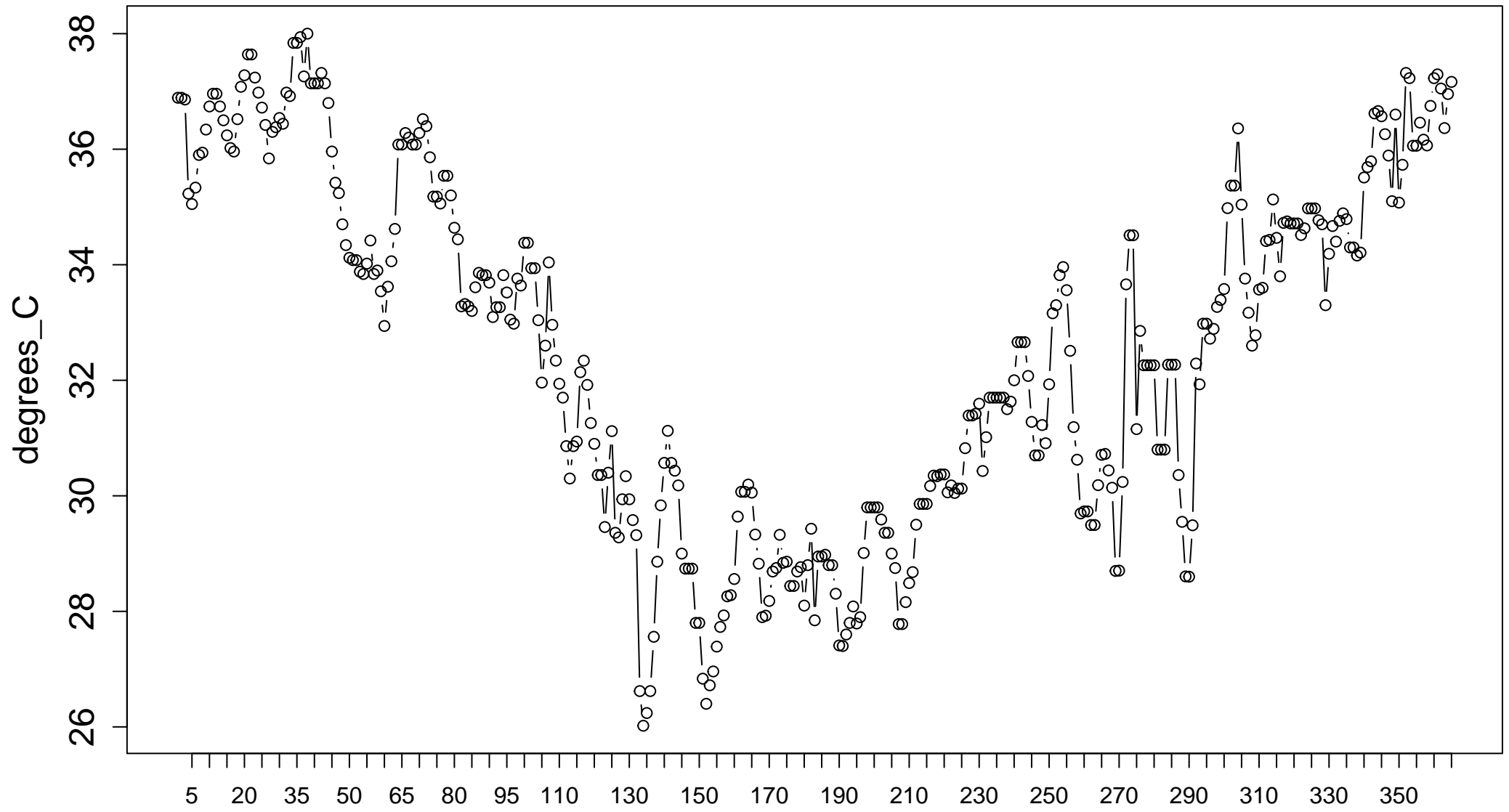
Index: txge35. Monthly number of days when TX  $\geq 35$  degrees\_C



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 0.223

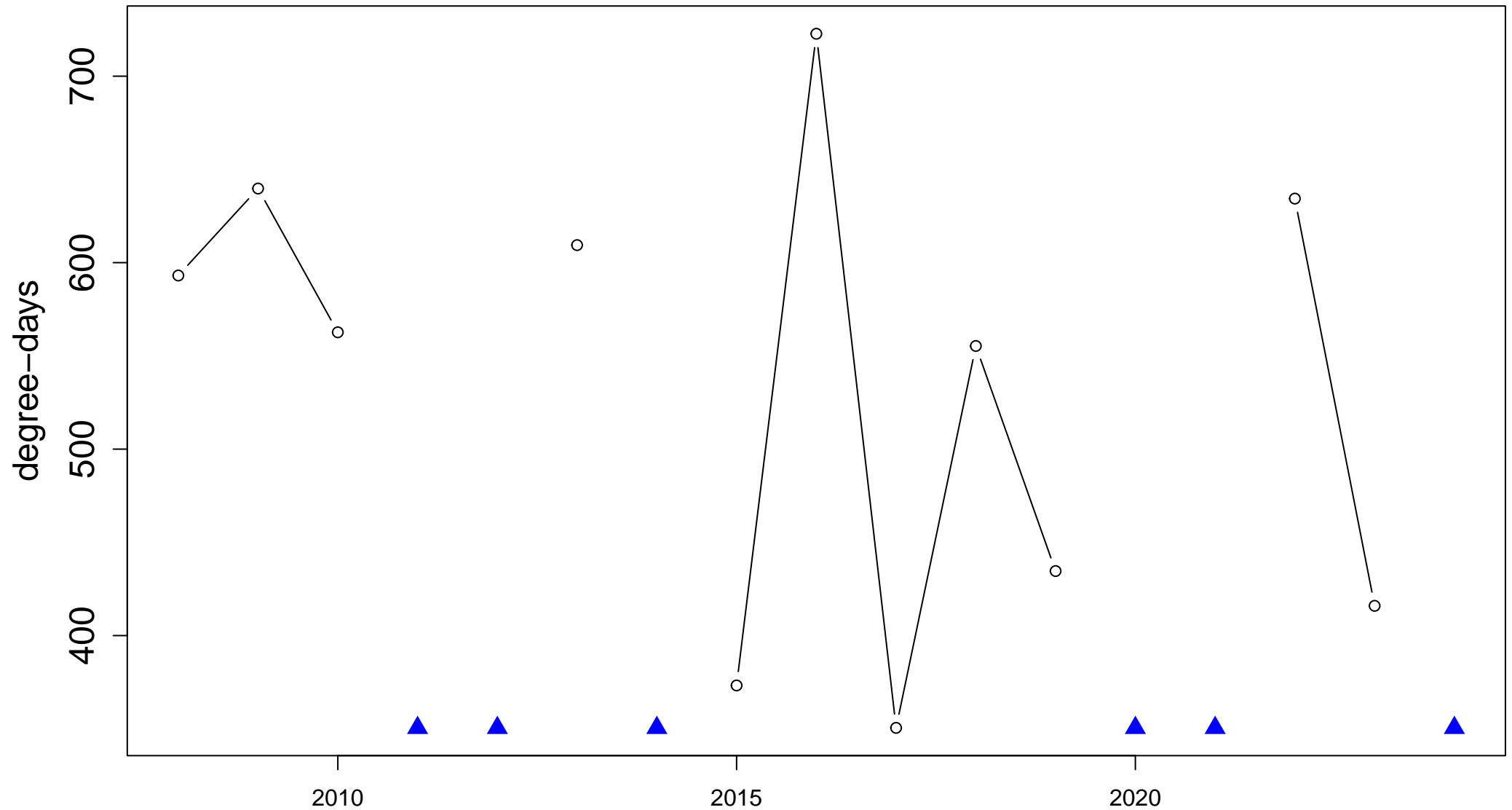
# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

Index: tx95t. Value of 95th percentile of TX



# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

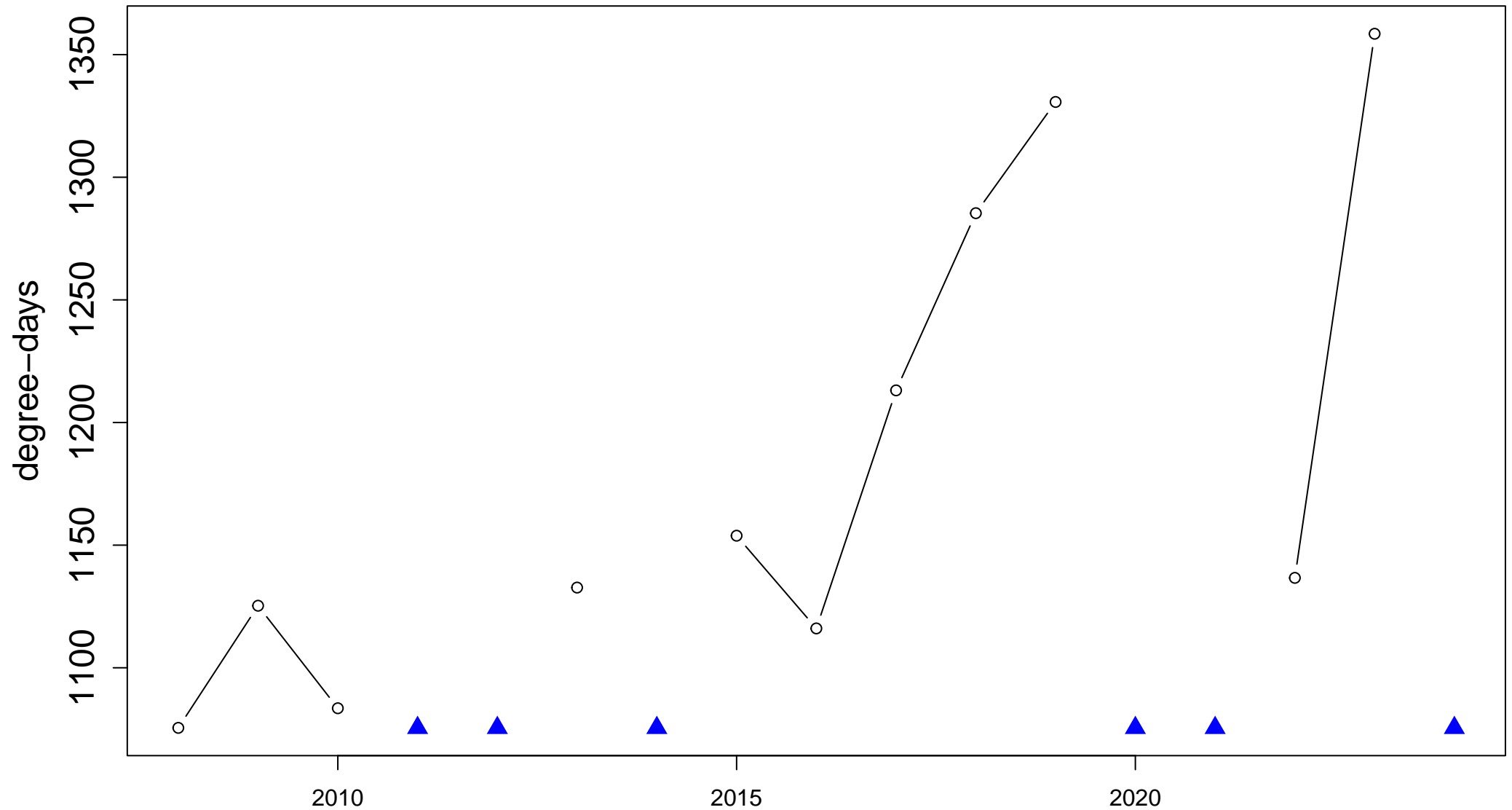
Index: hddheat18. Annual sum of 18 – TM



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

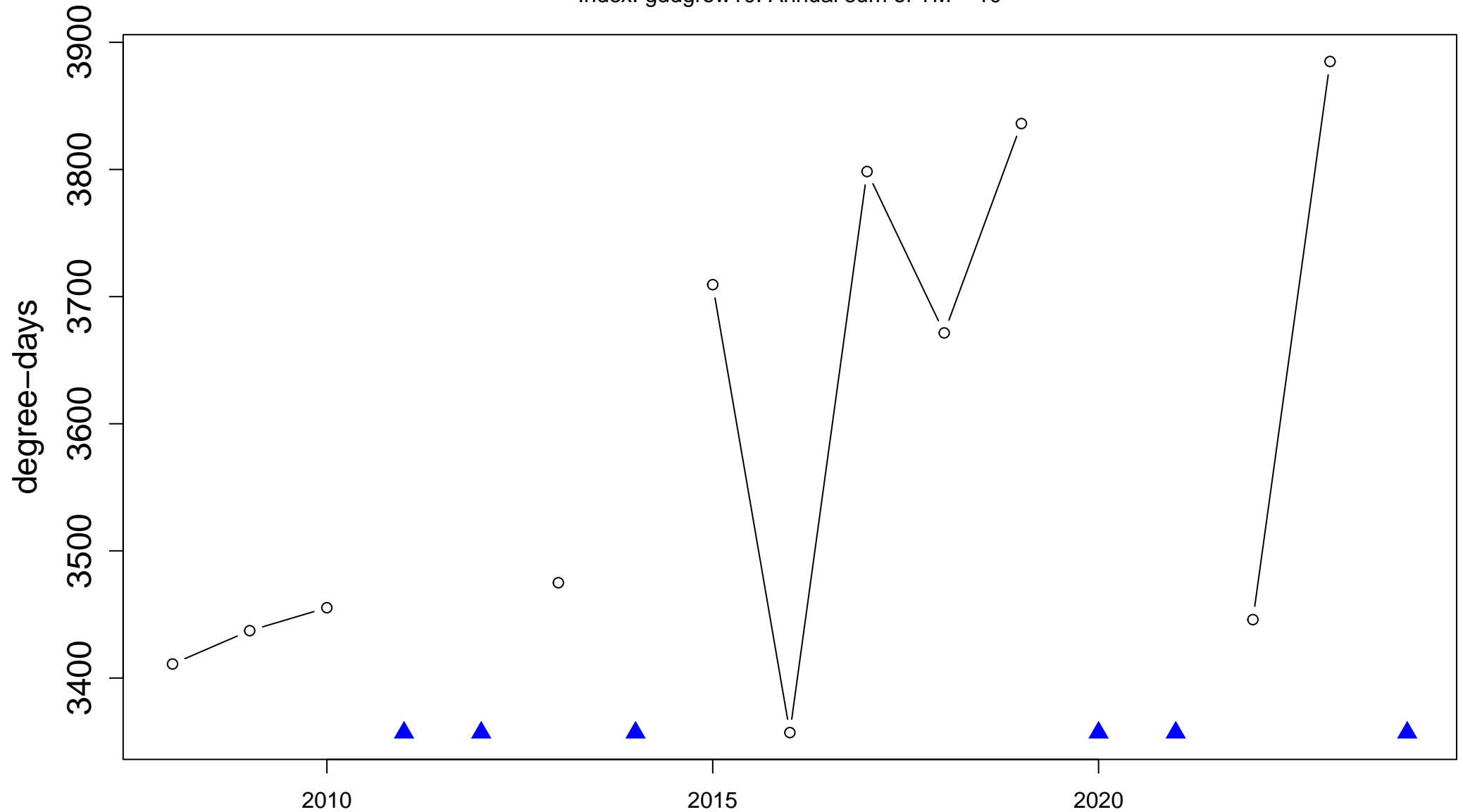
Index: cddcold18. Annual sum of TM − 18



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

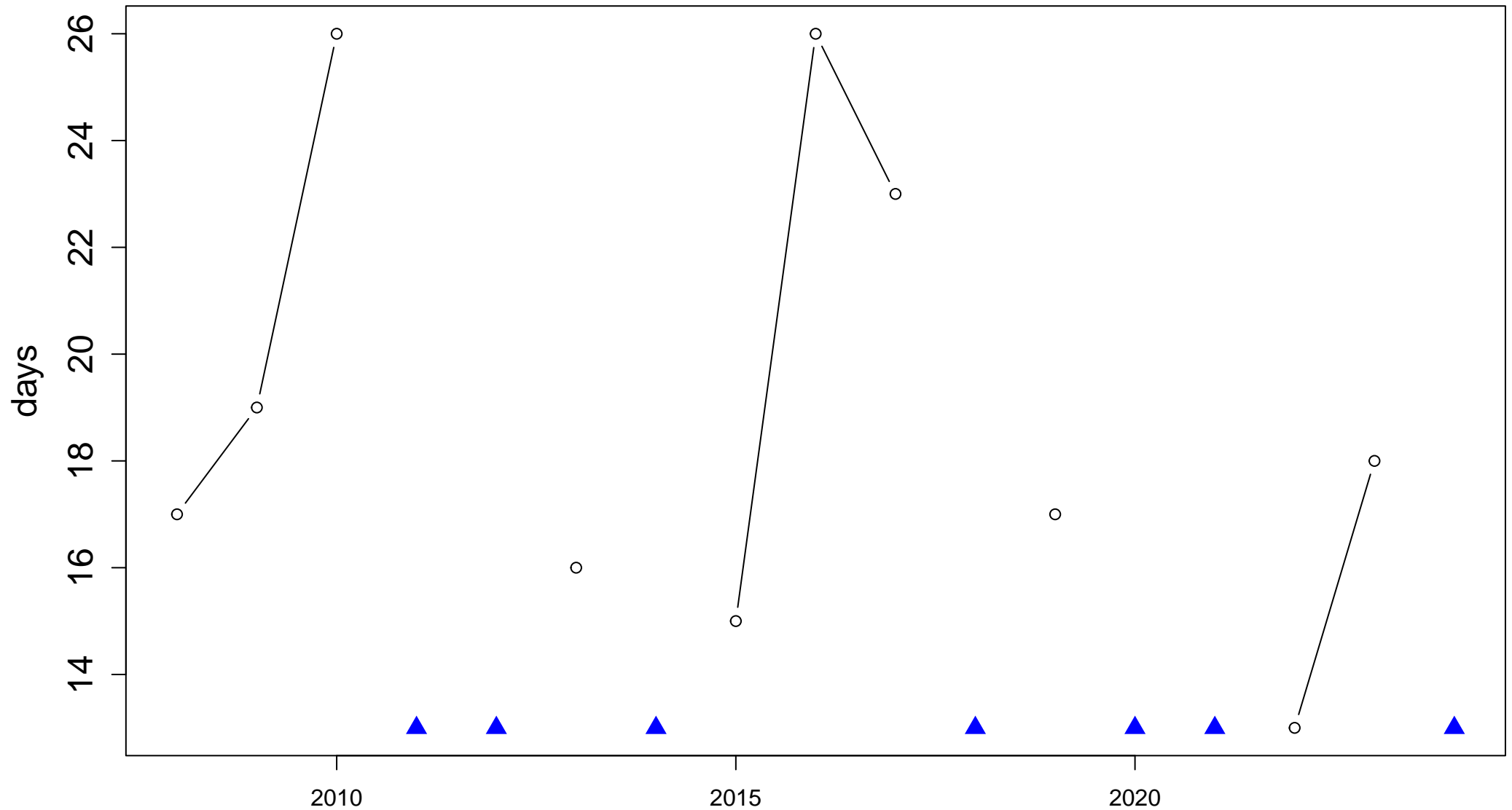
Index: gddgrow10. Annual sum of TM – 10



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

Index: cdd. Maximum annual number of consecutive dry days (when precipitation < 1.0 mm)

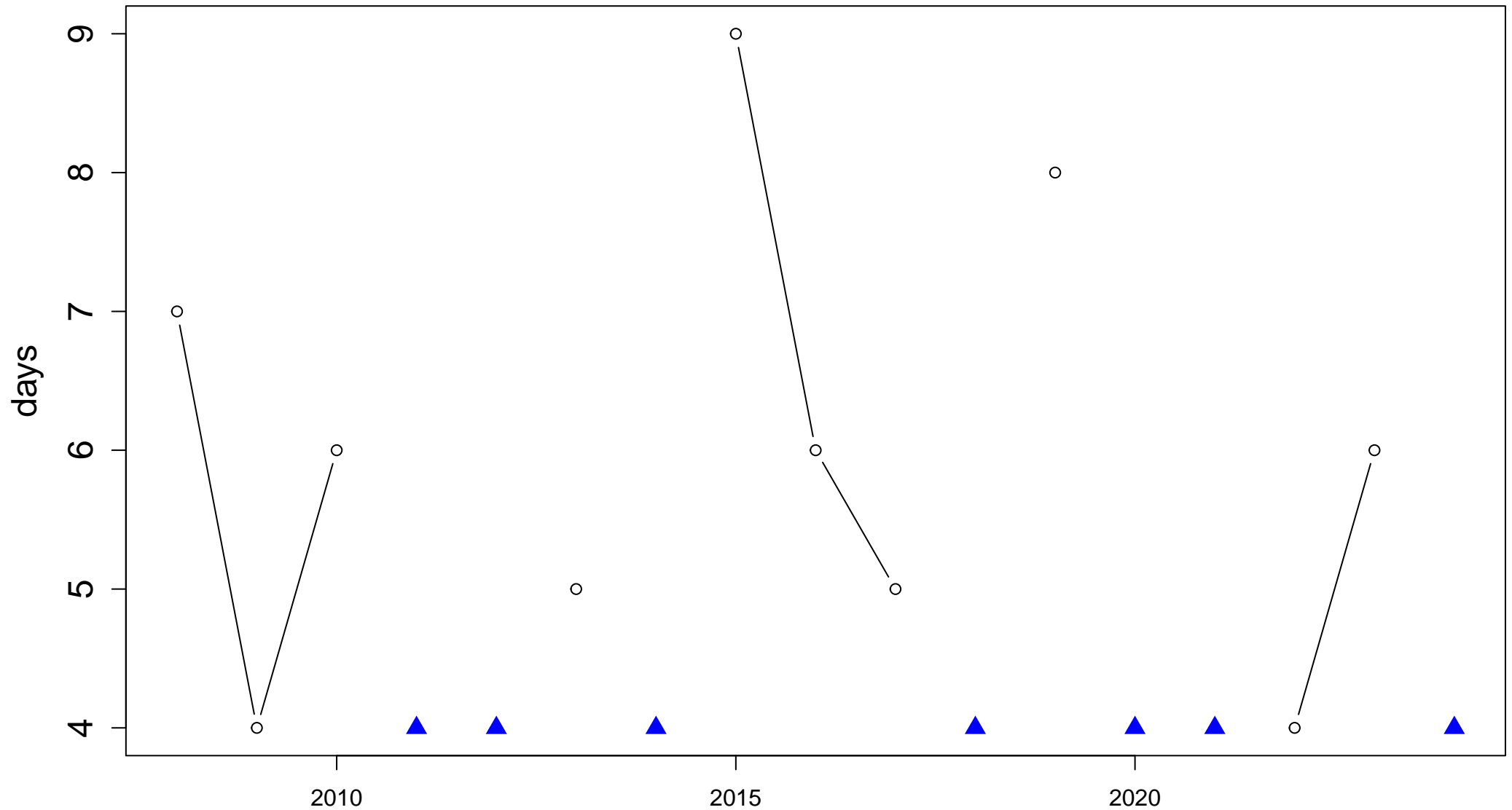


NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.



# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

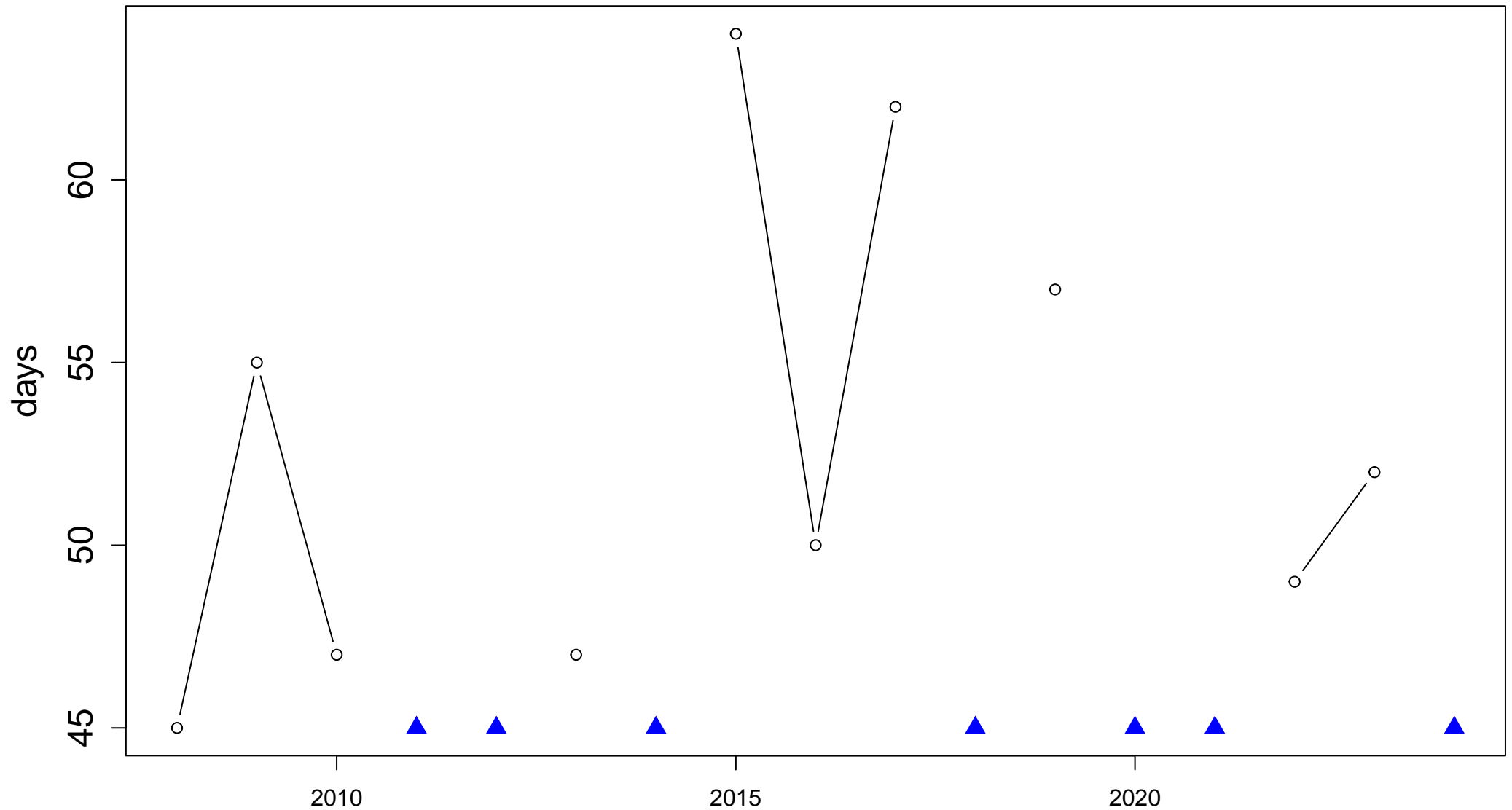
Index: cwd. Maximum annual number of consecutive wet days (when precipitation  $\geq 1.0$  mm)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

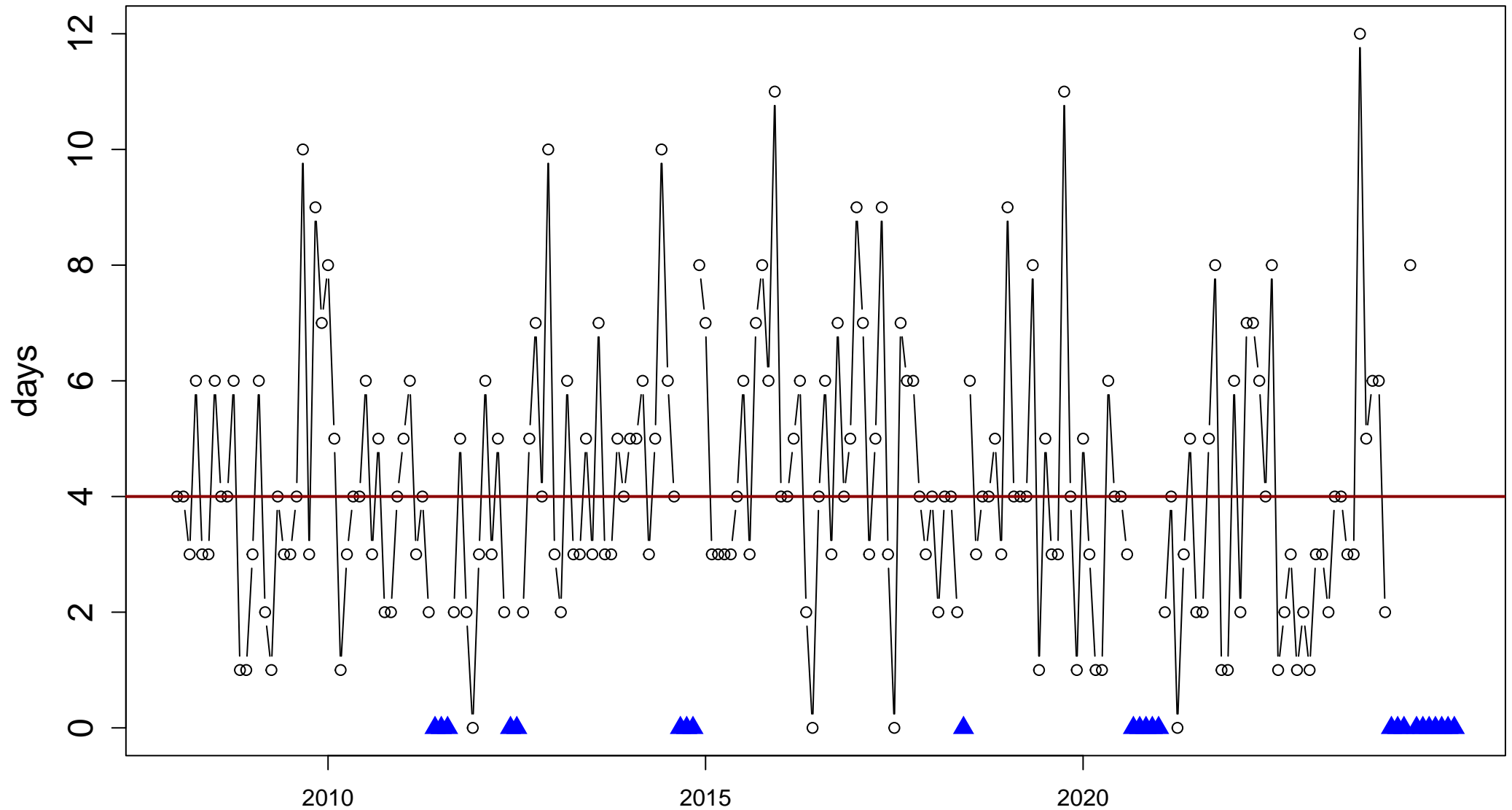
Index: r10mm. Annual number of days when precipitation  $\geq 10$  mm



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

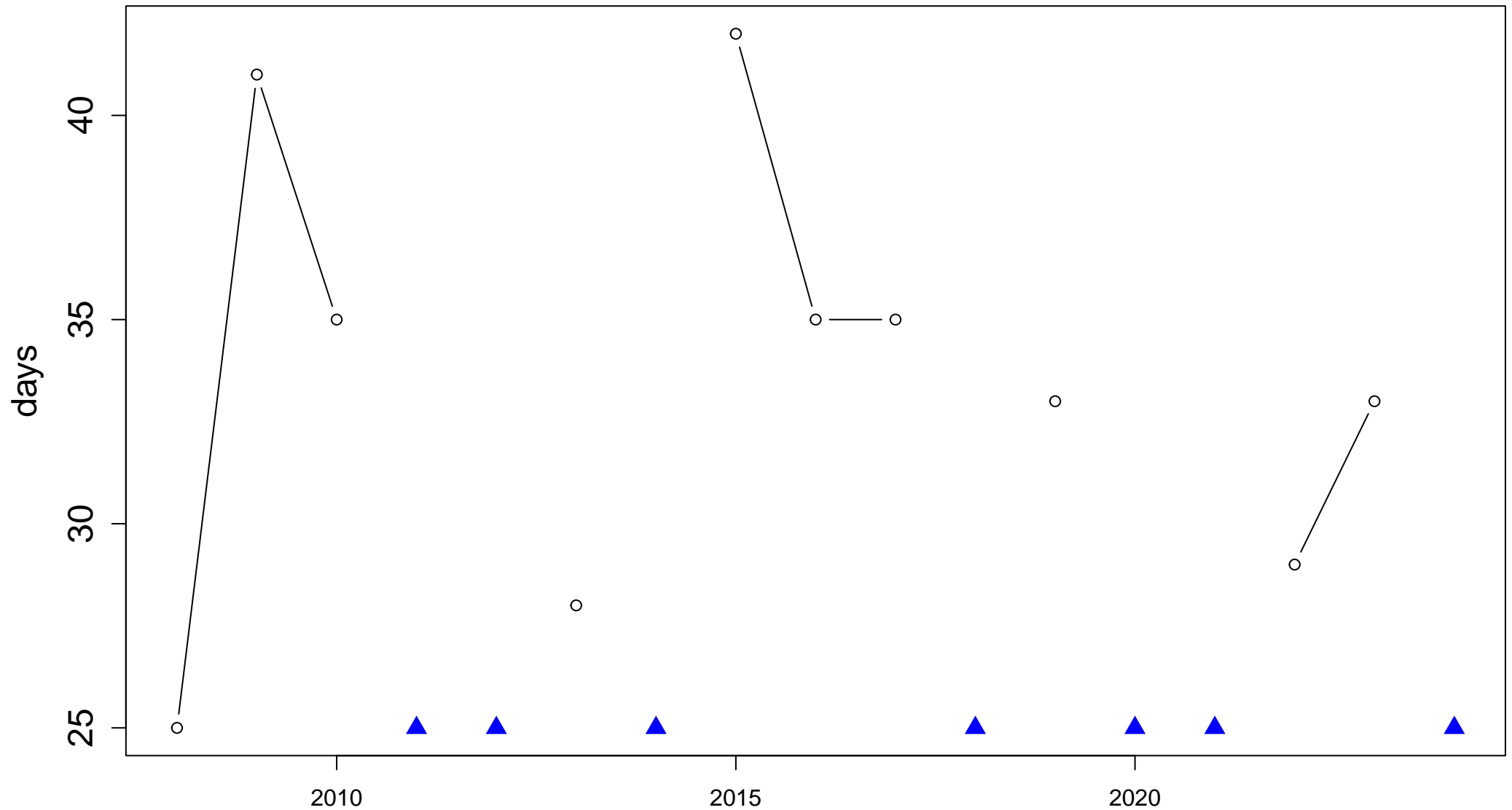
Index: r10mm. Monthly number of days when precipitation  $\geq 10$  mm



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 0.712

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

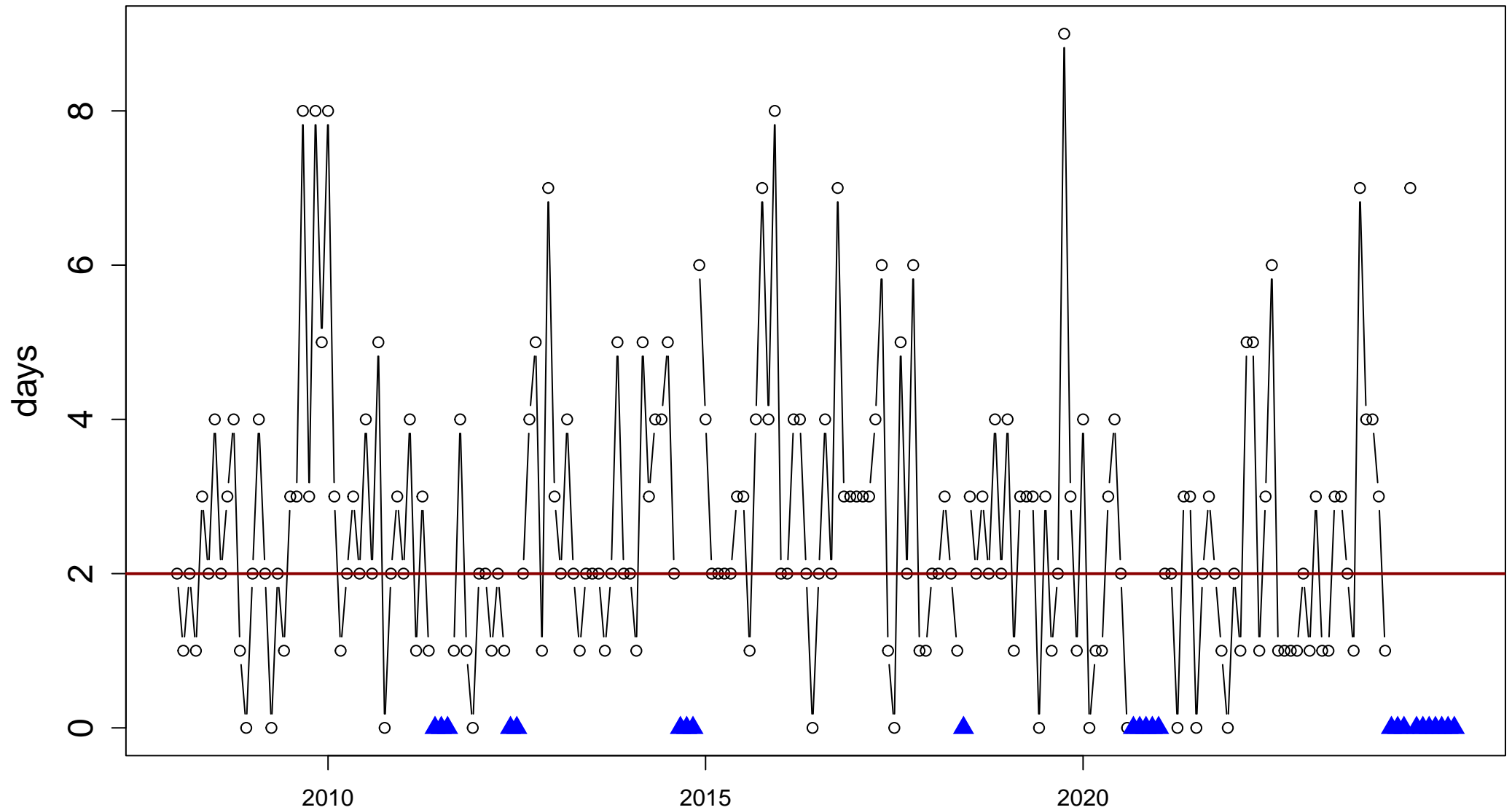
Index: r20mm. Annual number of days when precipitation  $\geq 20$  mm



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

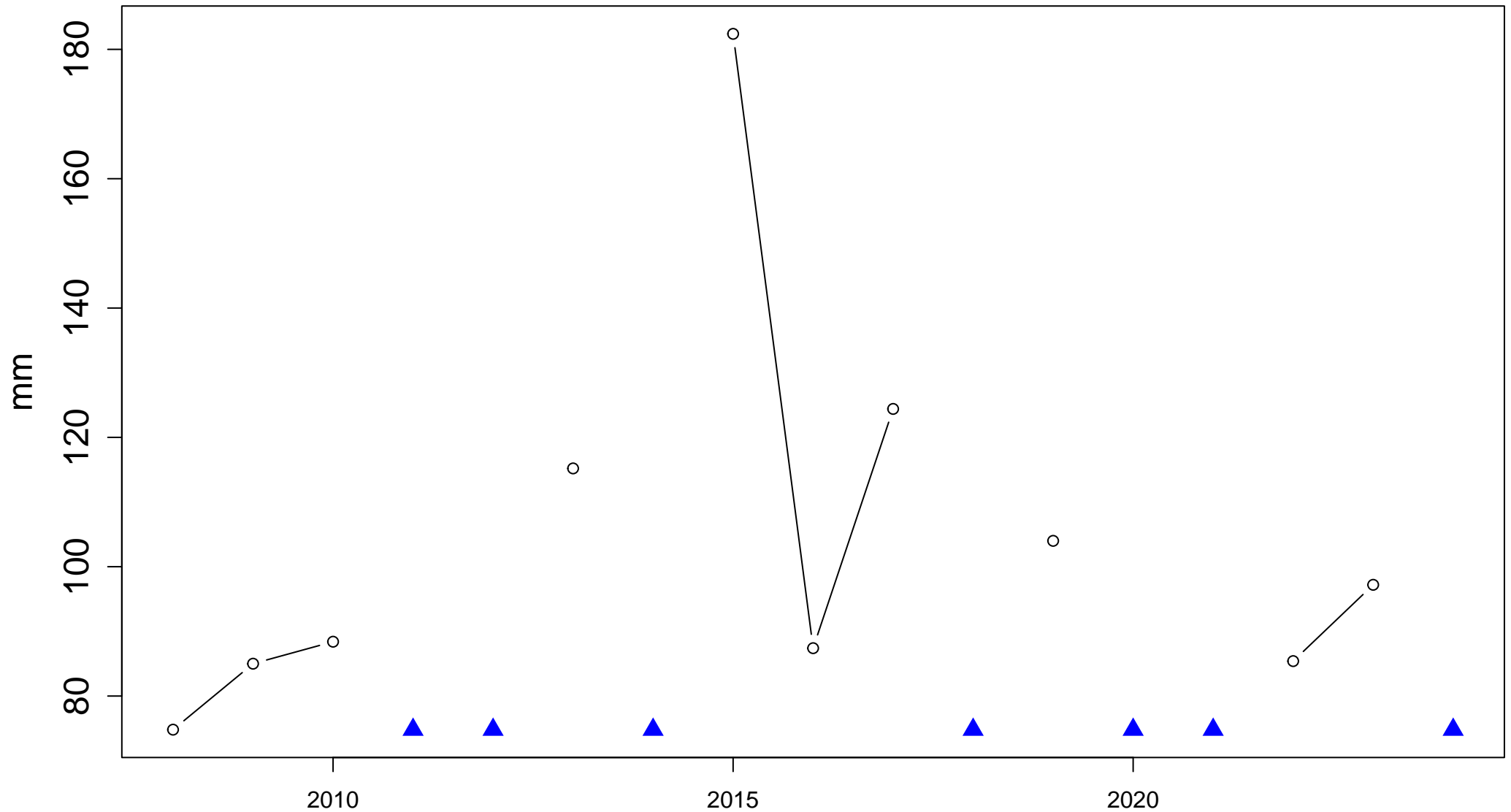
Index: r20mm. Monthly number of days when precipitation  $\geq 20$  mm



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 0.523

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

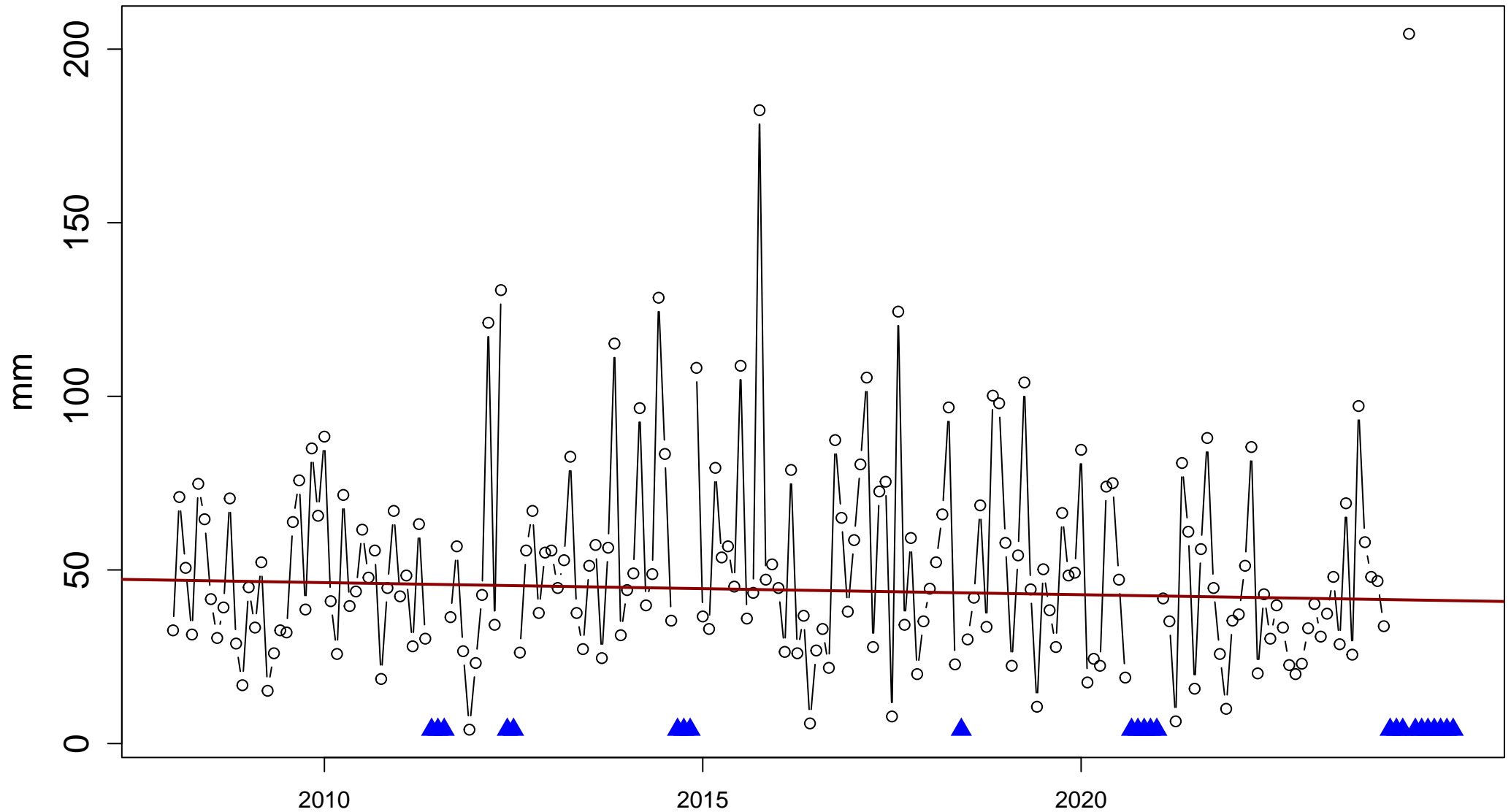
Index: rx1day. Maximum annual 1-day precipitation total



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

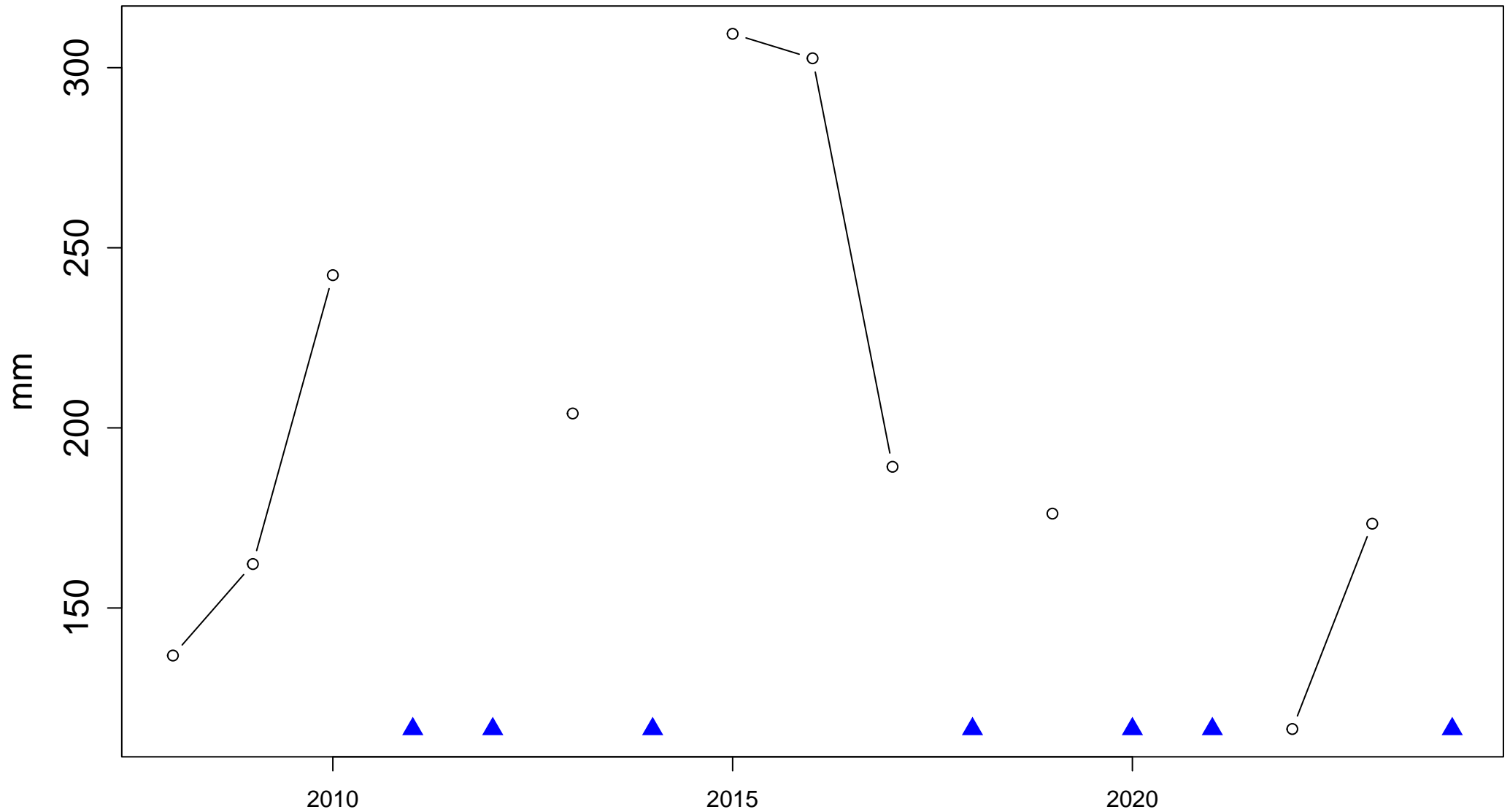
Index: rx1day. Maximum monthly 1-day precipitation total



Sen's slope =  $-0.029$  lower bound =  $-0.088$ , upper bound =  $0.033$ , p-value =  $0.378$

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

Index: rx5day. Maximum annual 5-day precipitation total

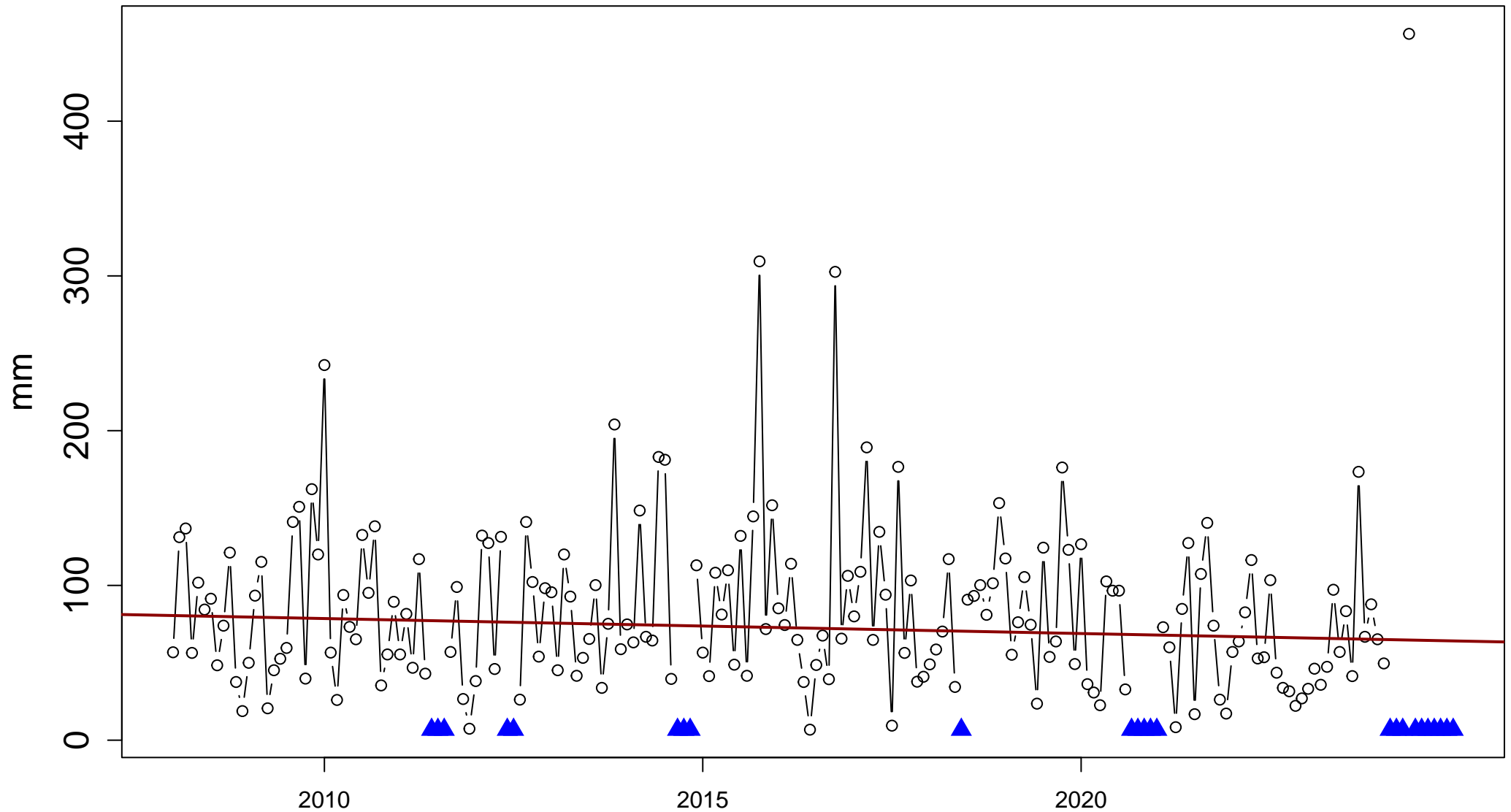


NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.



# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

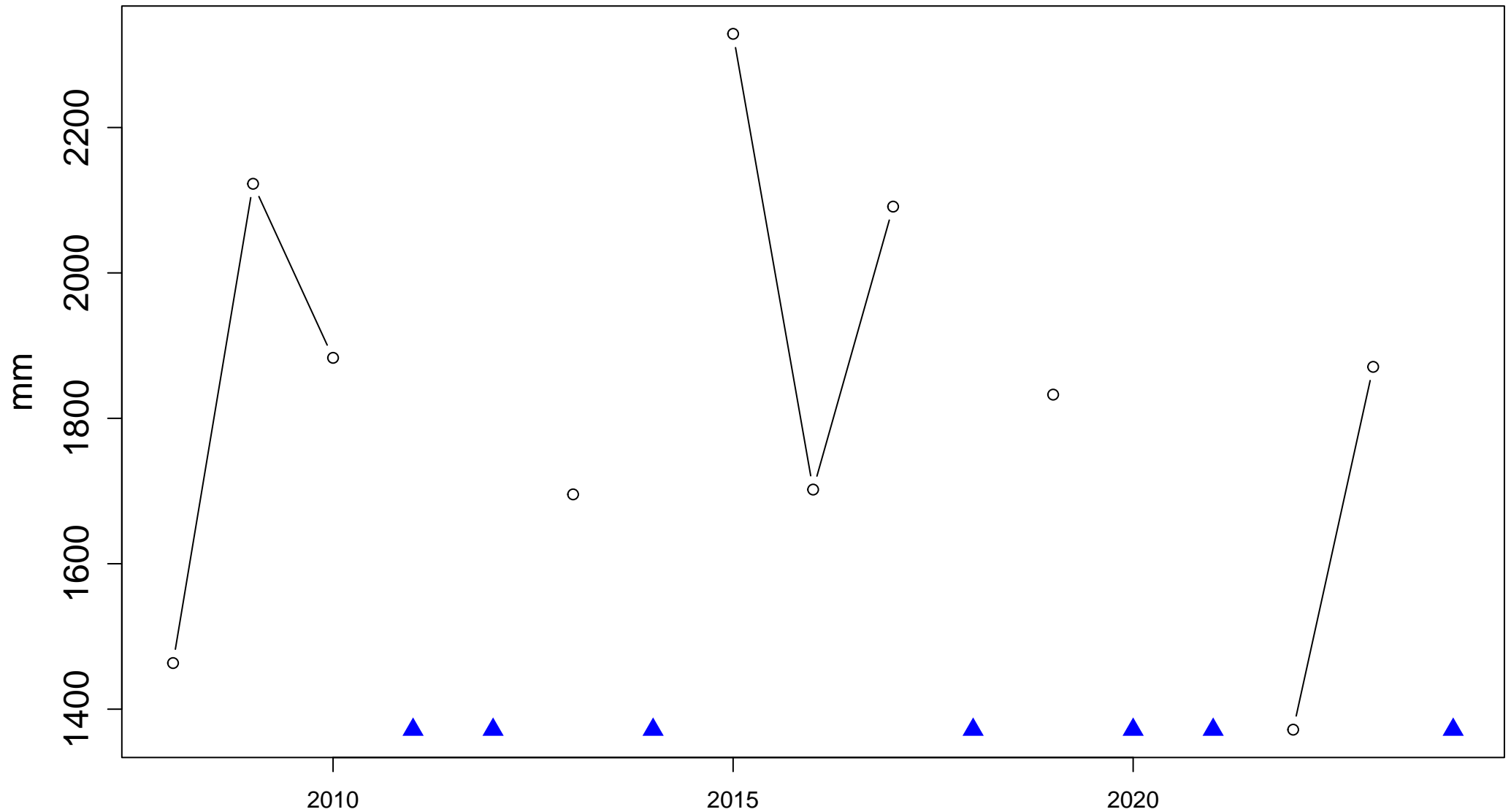
Index: rx5day. Maximum monthly 5-day precipitation total



Sen's slope =  $-0.081$  lower bound =  $-0.187$ , upper bound =  $0.028$ , p-value =  $0.155$

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

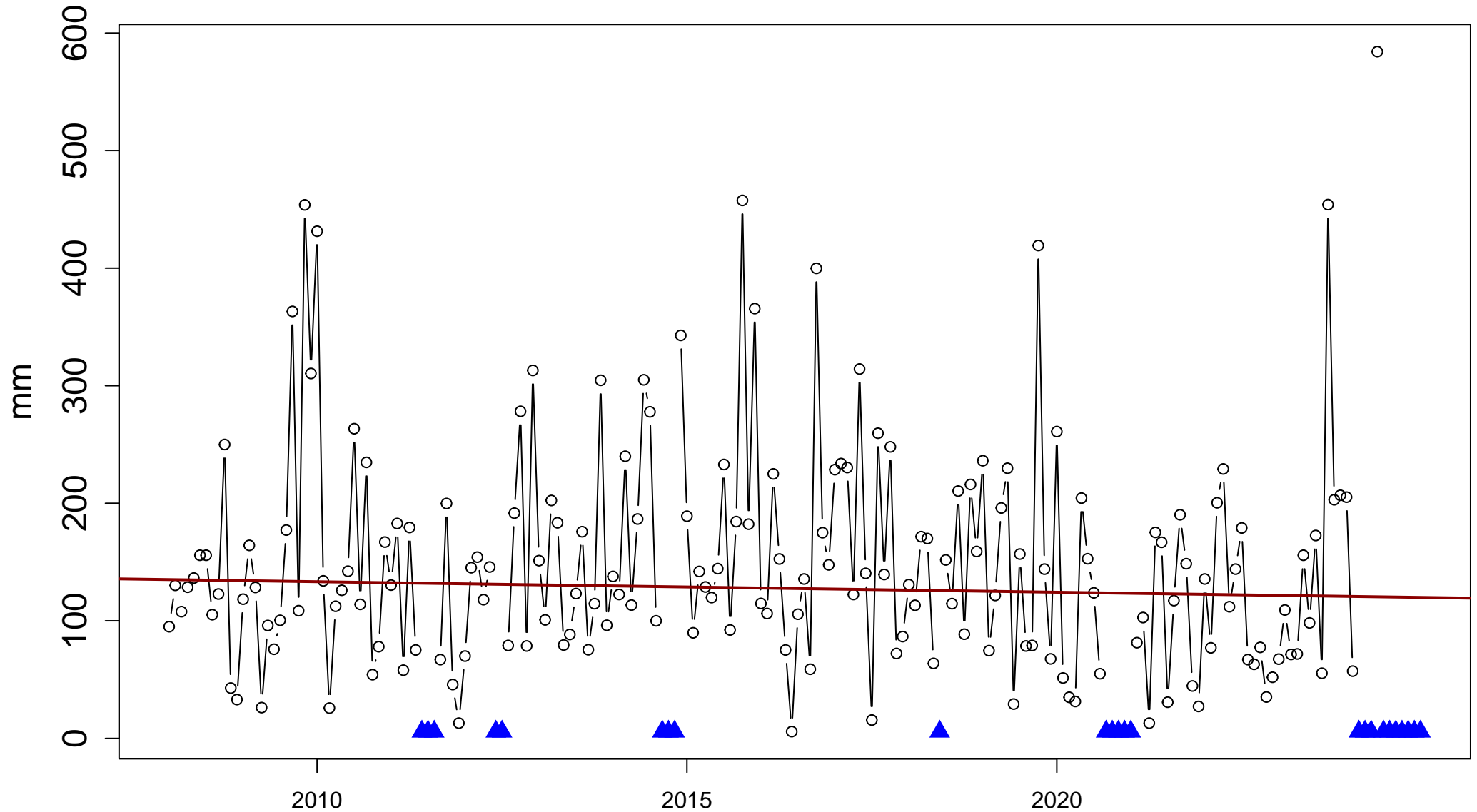
Index: prcptot. Annual sum of daily precipitation  $\geq 1.0$  mm



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

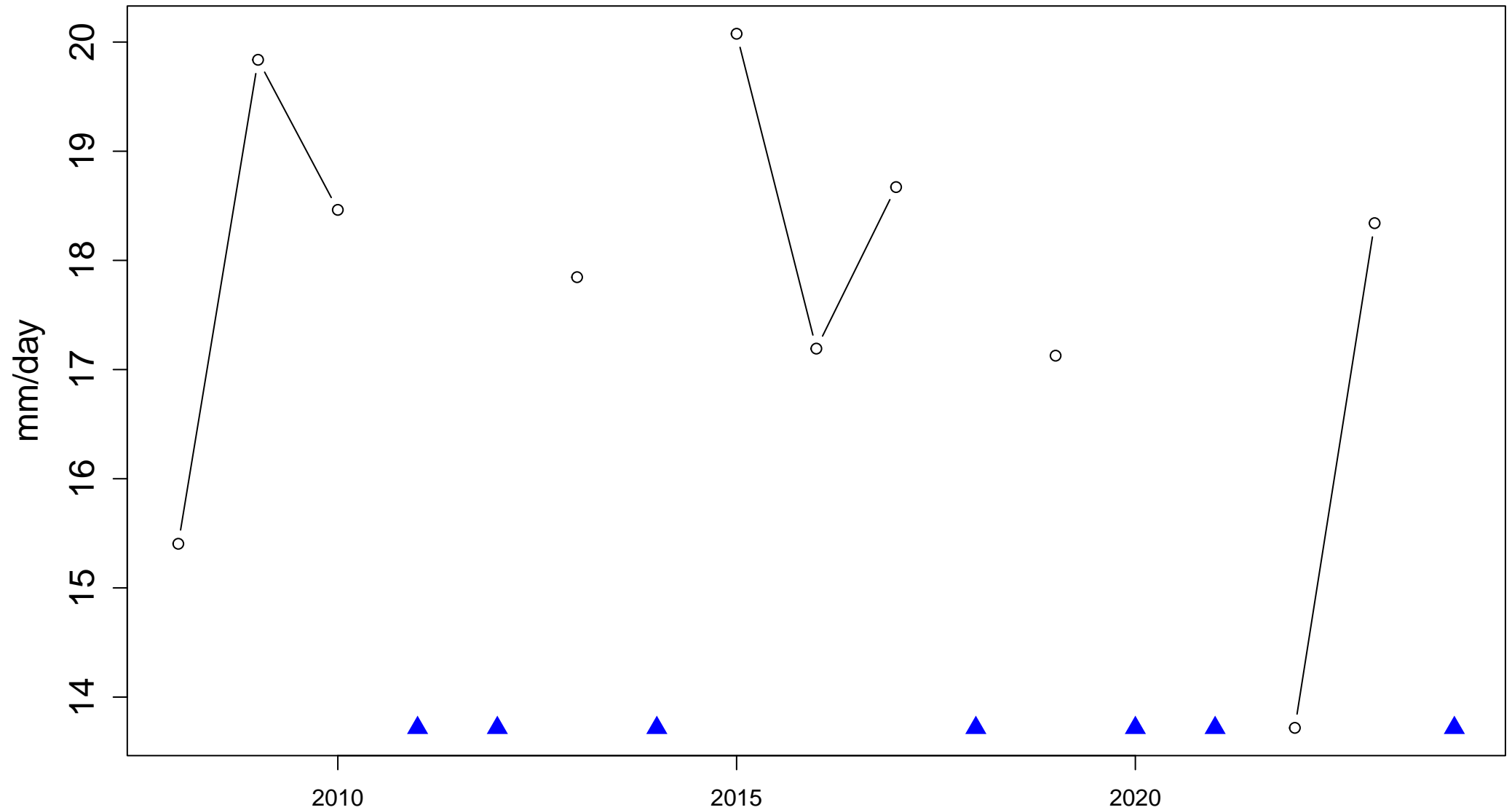
Index: prcptot. Monthly sum of daily precipitation  $\geq 1.0$  mm



Sen's slope =  $-0.075$  lower bound =  $-0.278$ , upper bound =  $0.137$ , p-value =  $0.486$

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

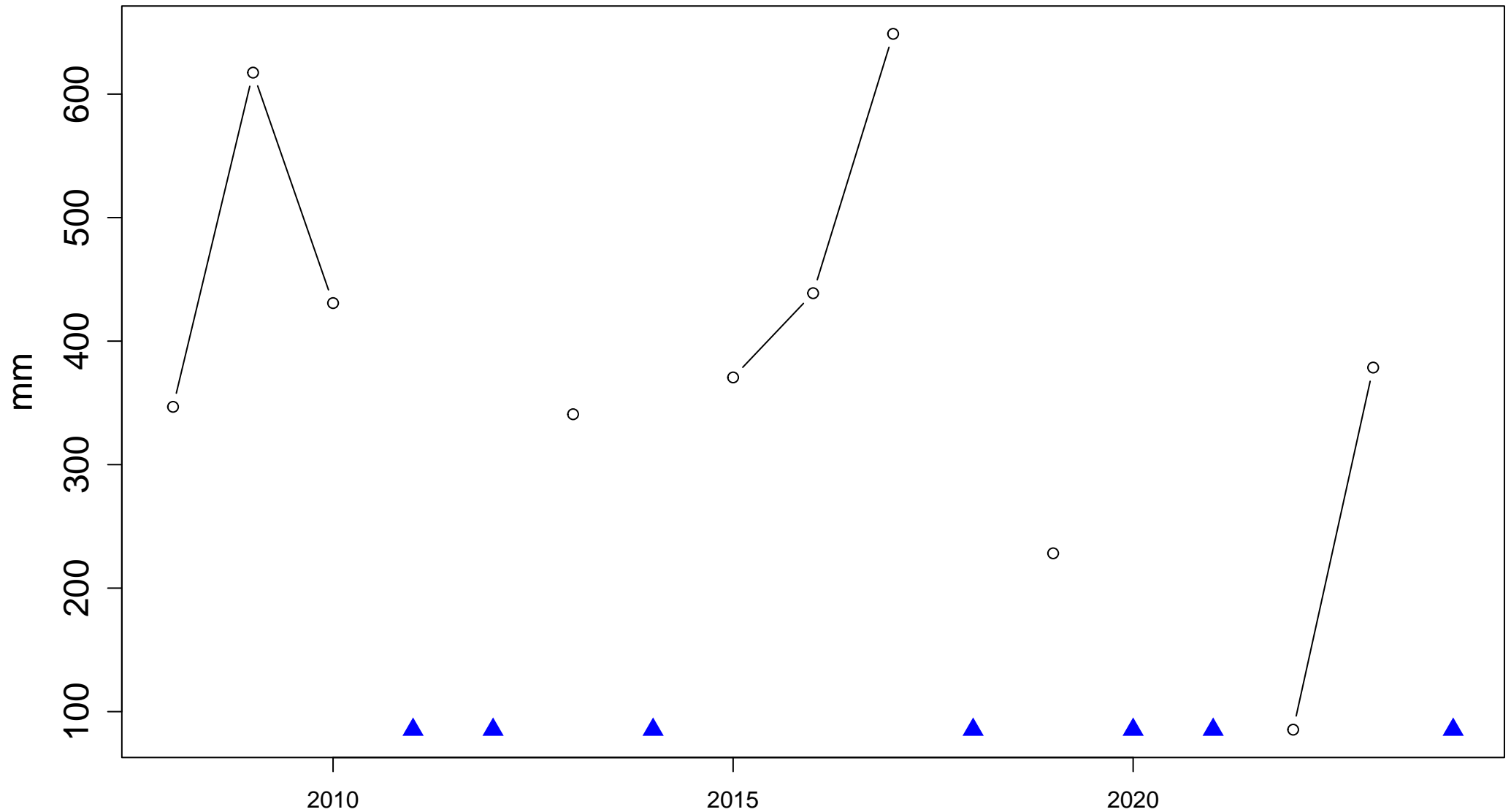
Index: sdii. Annual total precipitation divided by the number of wet days (when total precipitation  $\geq 1.0$  mm)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

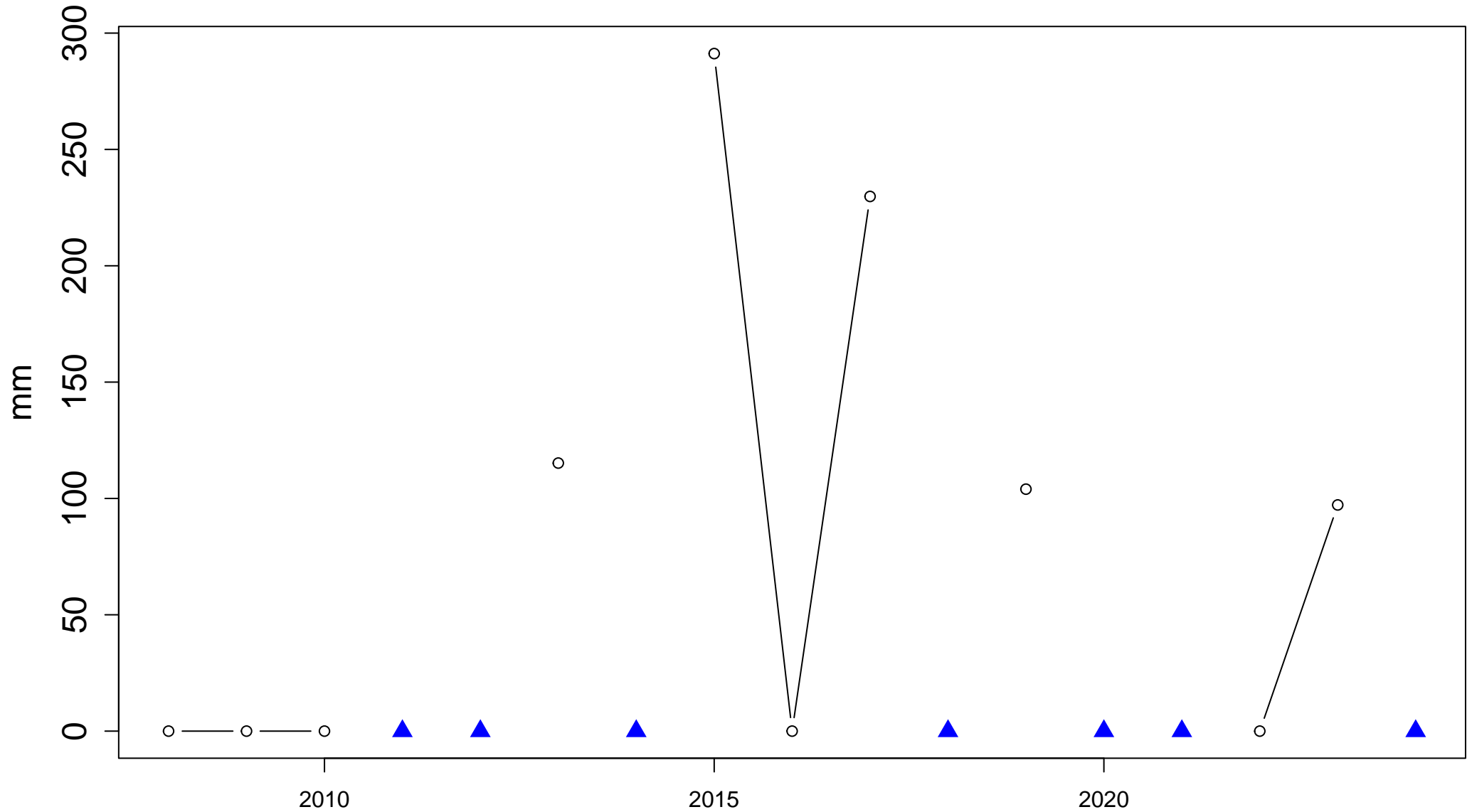
Index: r95p. Annual sum of daily precipitation > 95th percentile



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

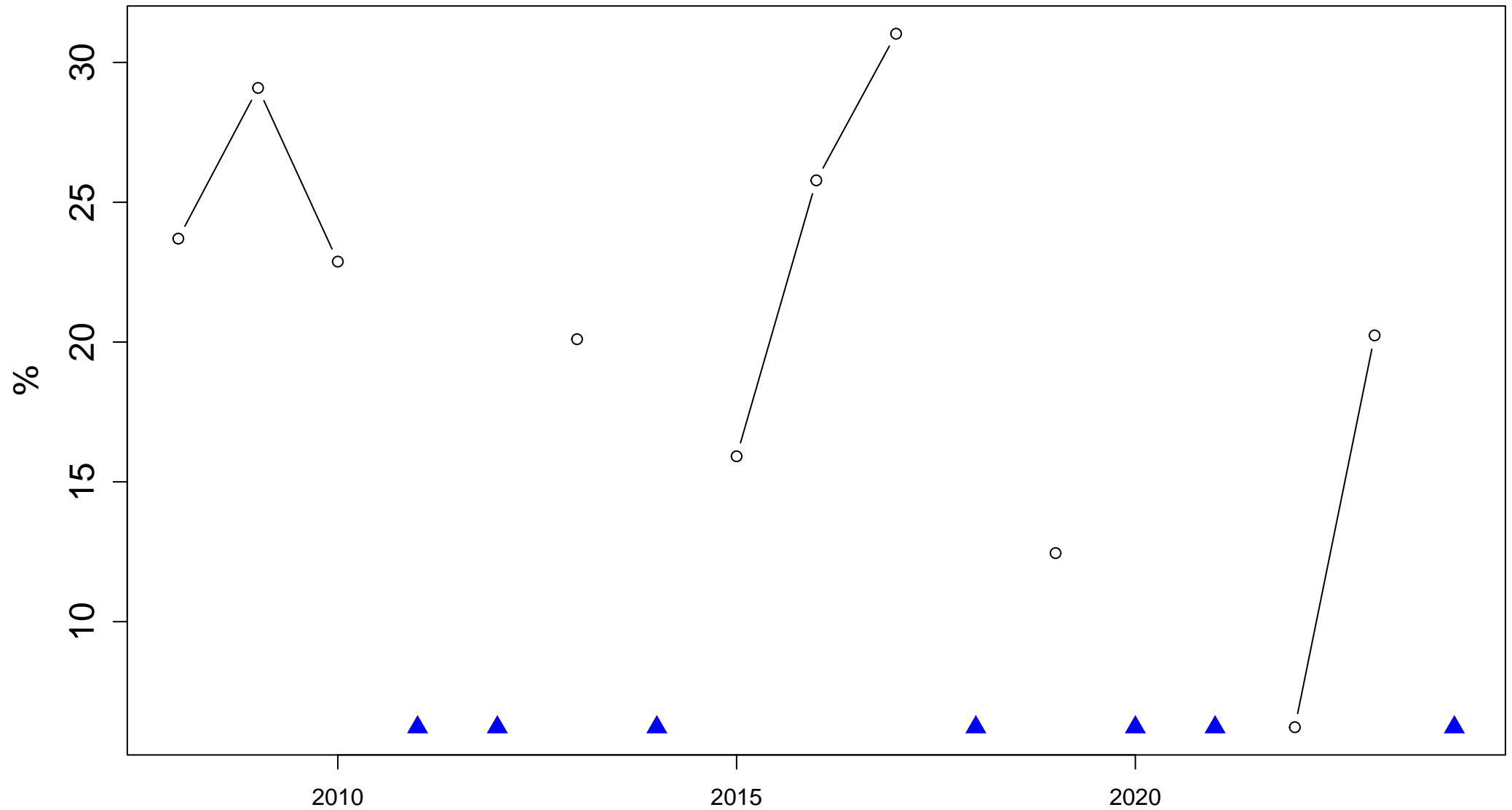
Index: r99p. Annual sum of daily precipitation > 99th percentile



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

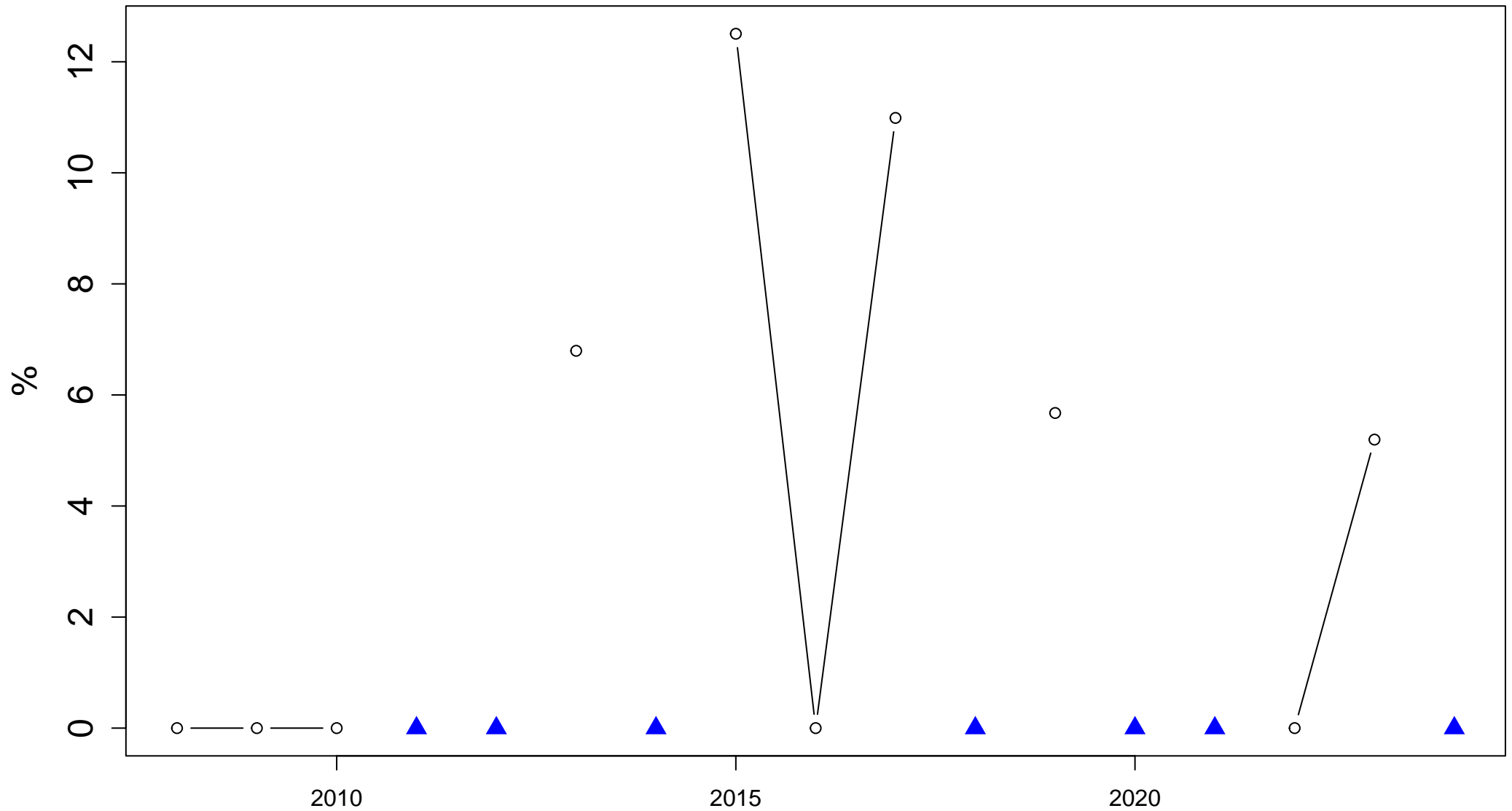
Index: r95ptot. 100\*r95p / PRCPTOT



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

Index: r99ptot. 100\*r99p / PRCPTOT

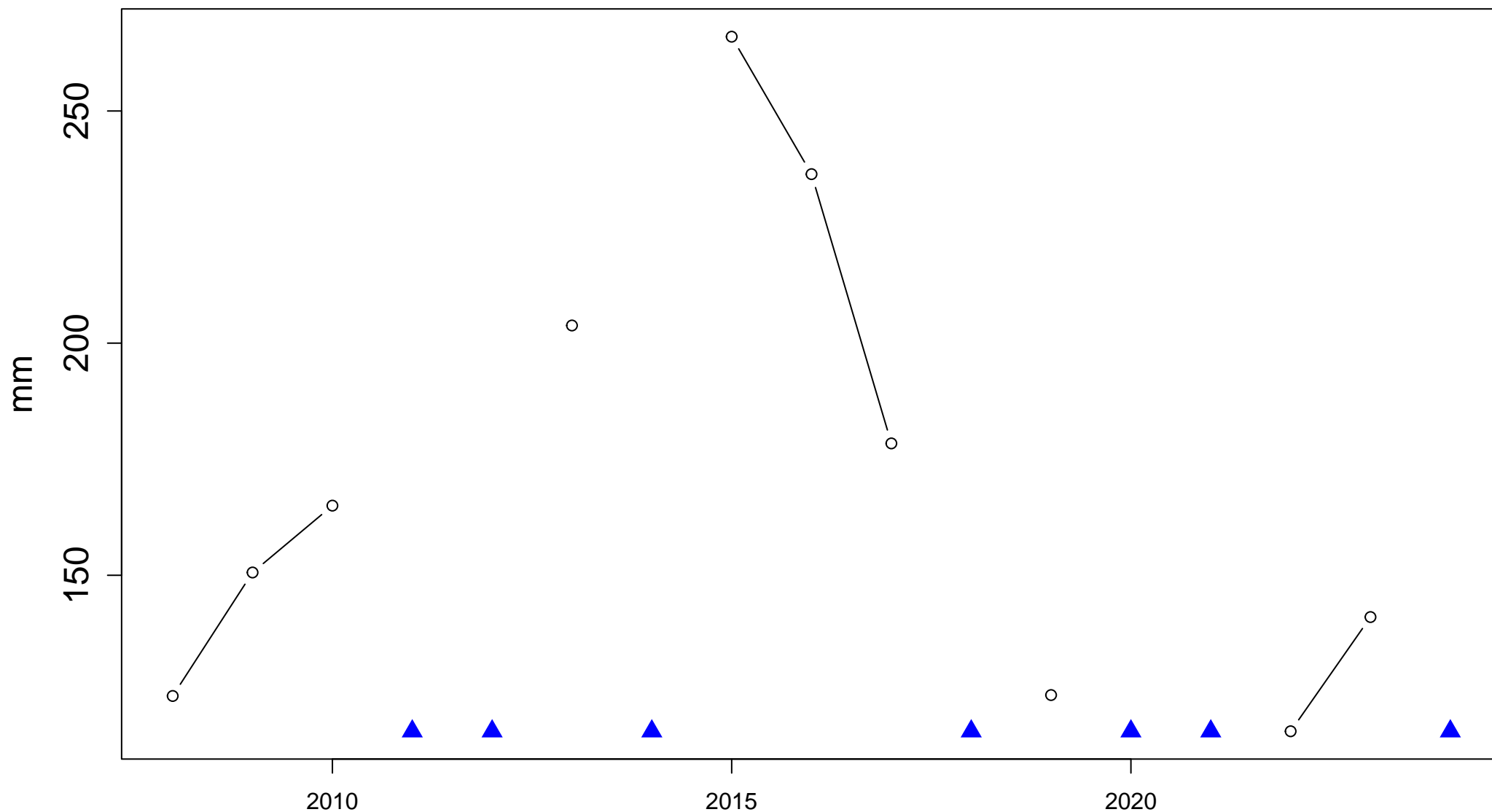


NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.



# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

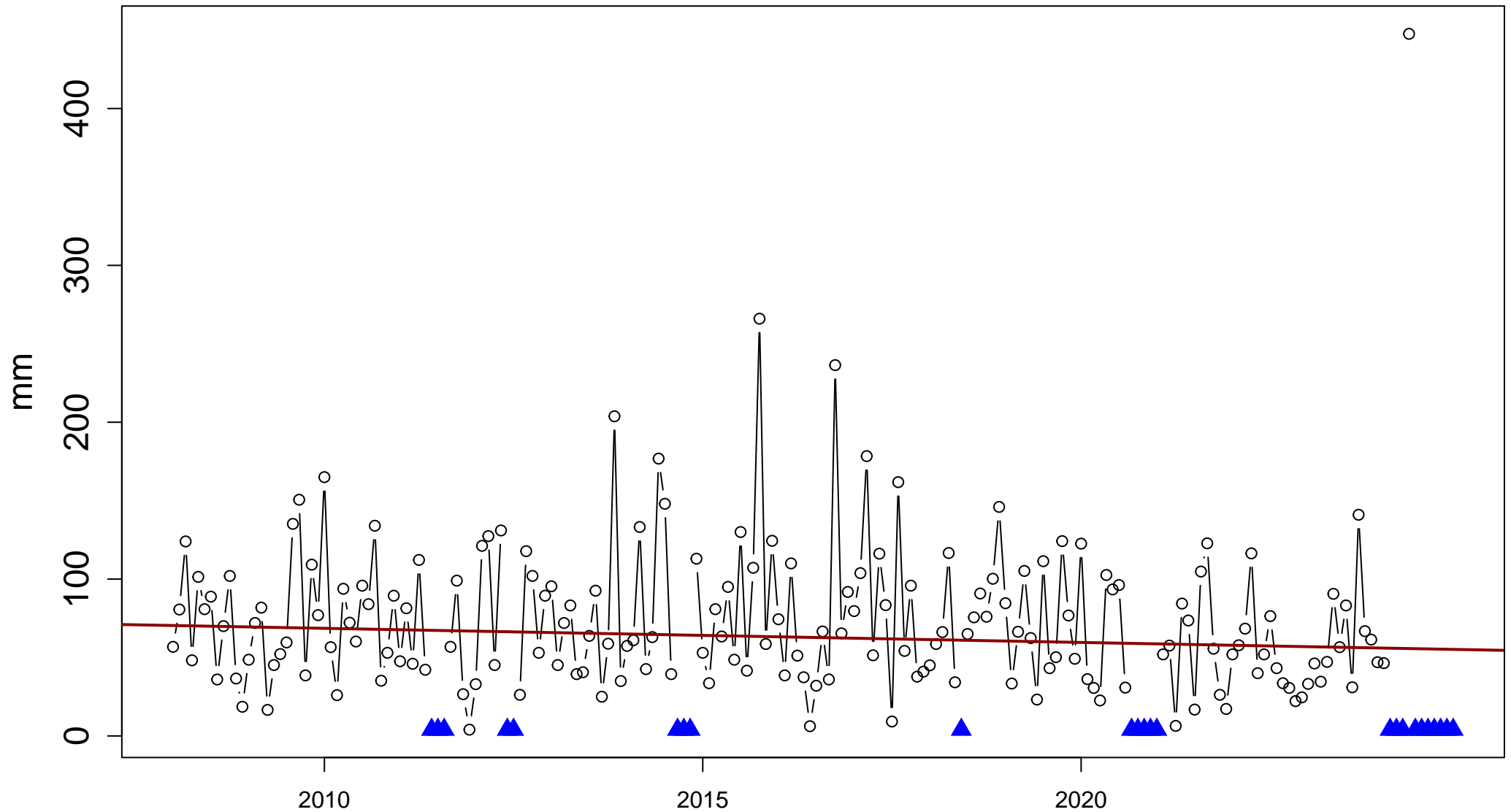
Index: rx3day. Maximum 3-day precipitation total



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

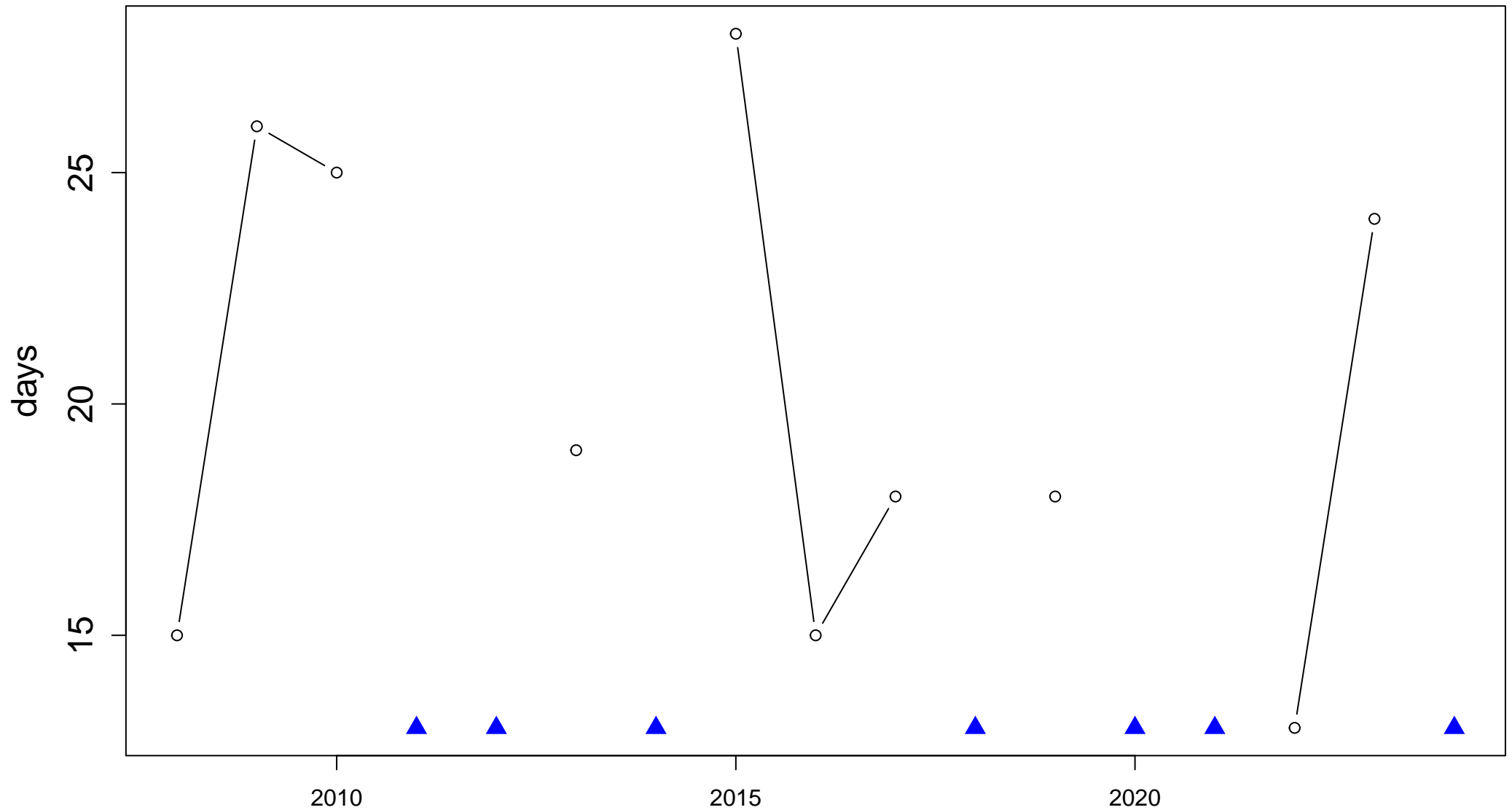
Index: rx3day. Maximum 3-day precipitation total



Sen's slope =  $-0.075$  lower bound =  $-0.169$ , upper bound =  $0.019$ , p-value =  $0.115$

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

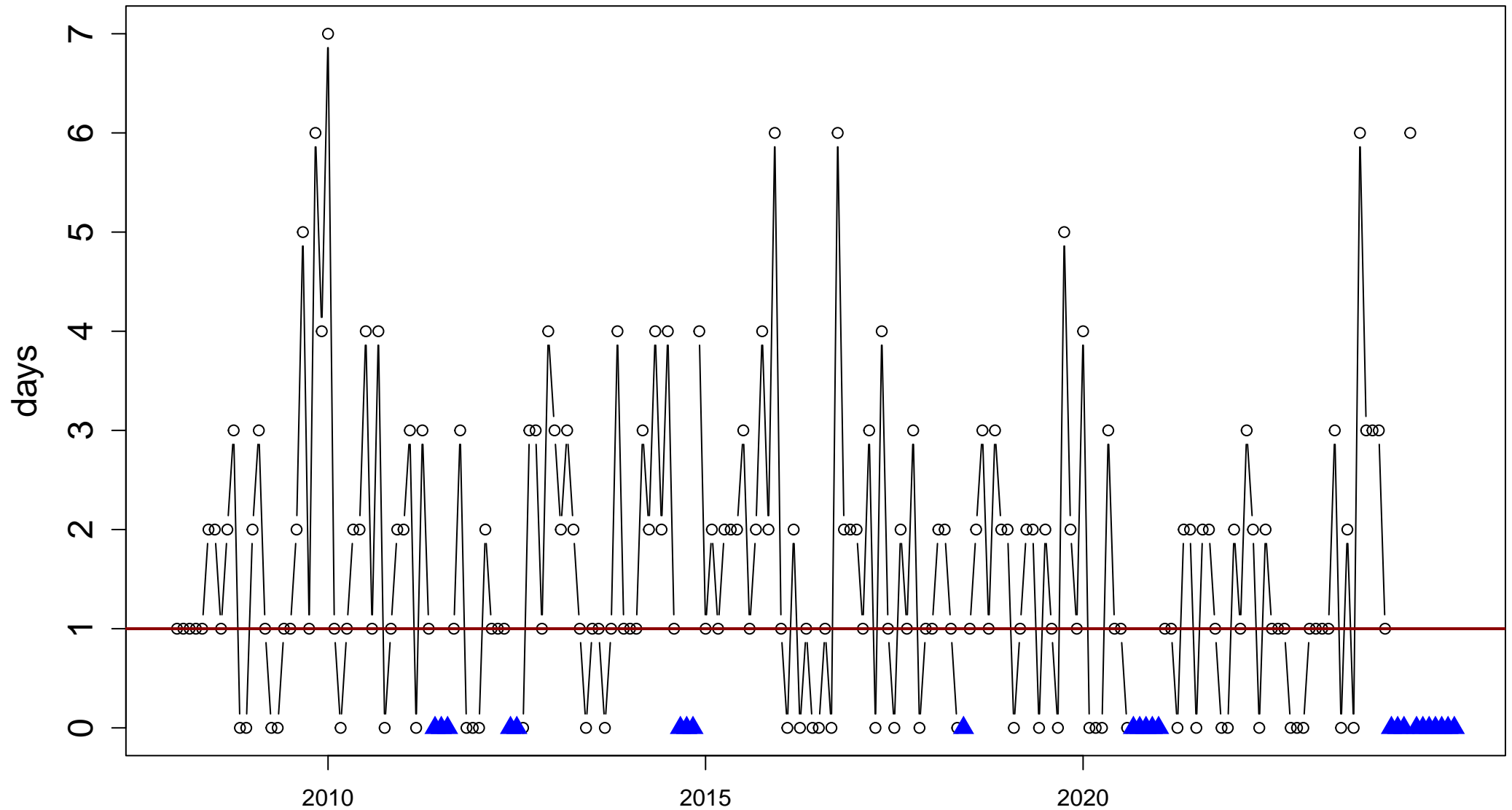
Index: r30mm. Number of days when precipitation  $\geq 30$



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

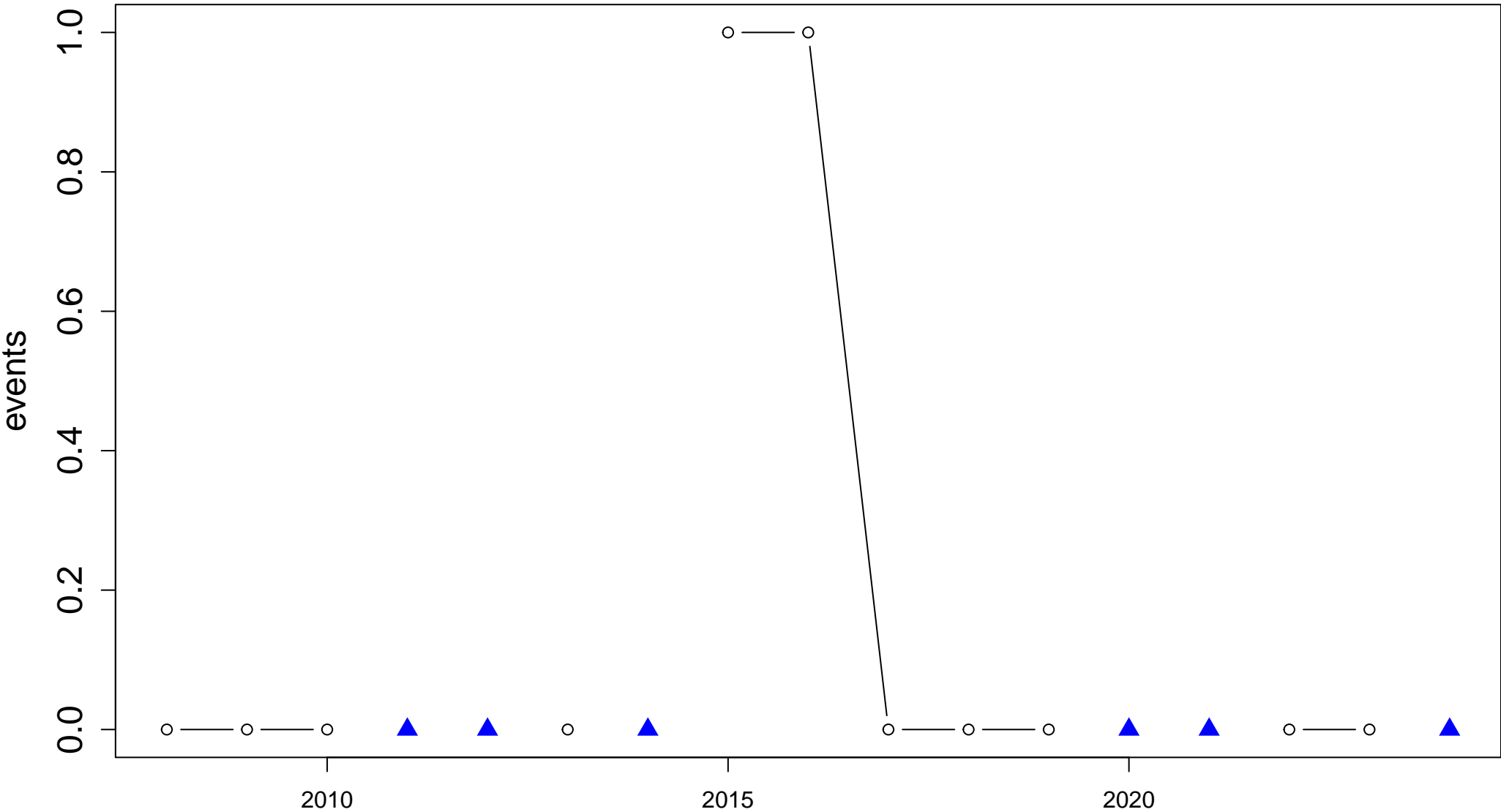
Index: r30mm. Number of days when precipitation  $\geq 30$



Sen's slope = 0 lower bound = 0, upper bound = 0, p-value = 0.359

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

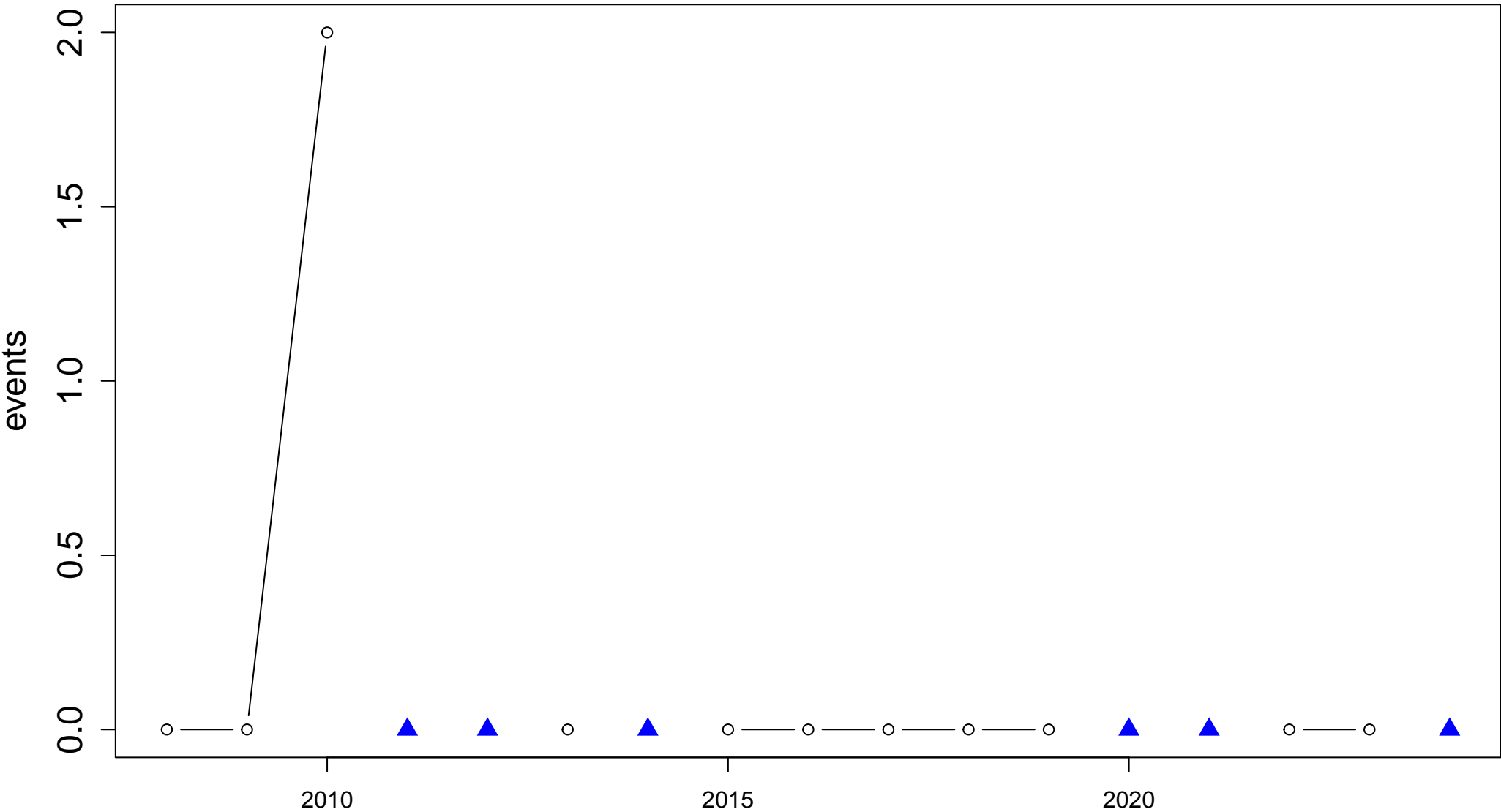
Index: tx2tn2. Number of 2 consecutive days where both TX > 95th percentile and TN > 95th percentile



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

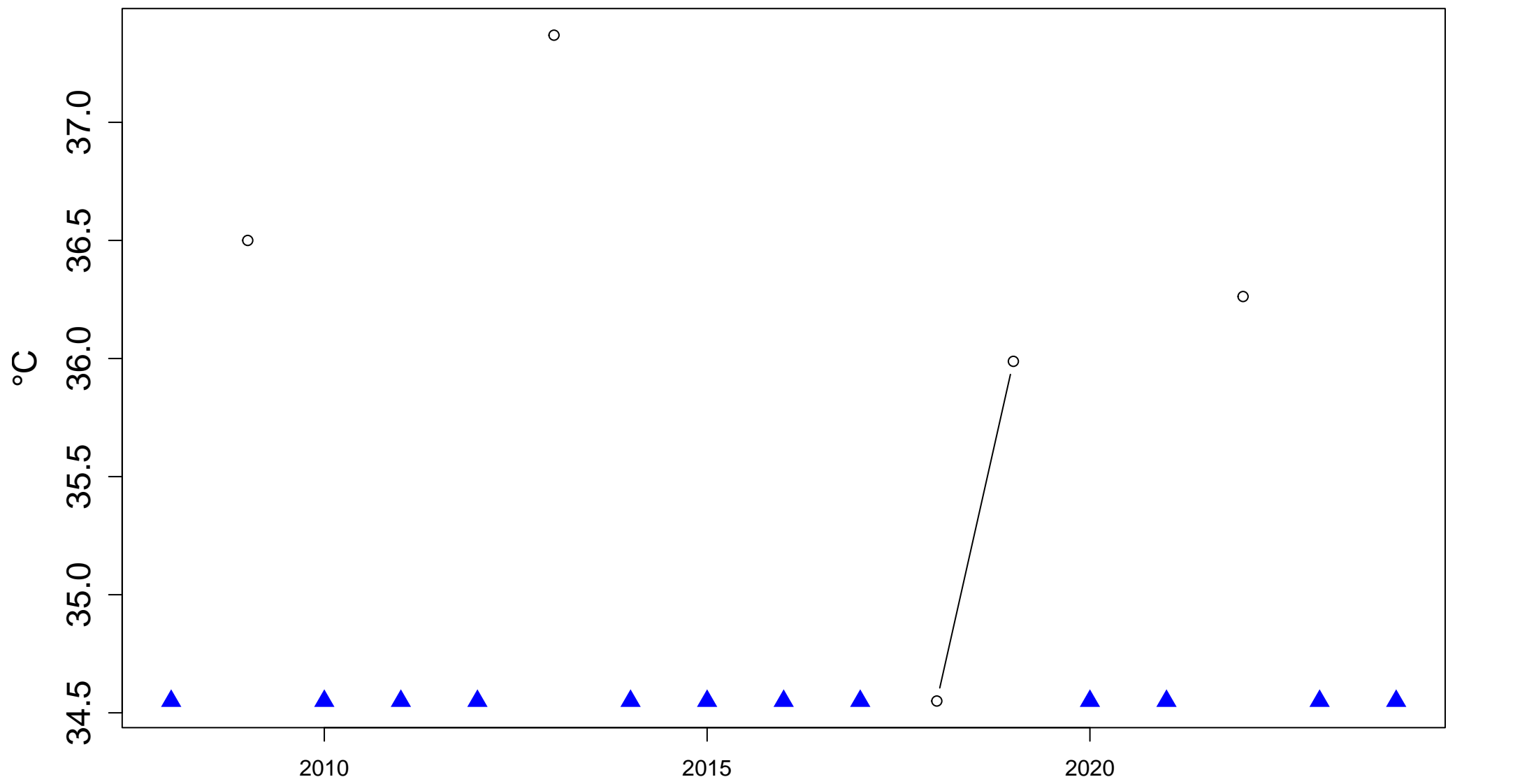
Index: txb2tnb2. Number of 2 consecutive days where both TX < 5th percentile and TN < 5th percentile



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

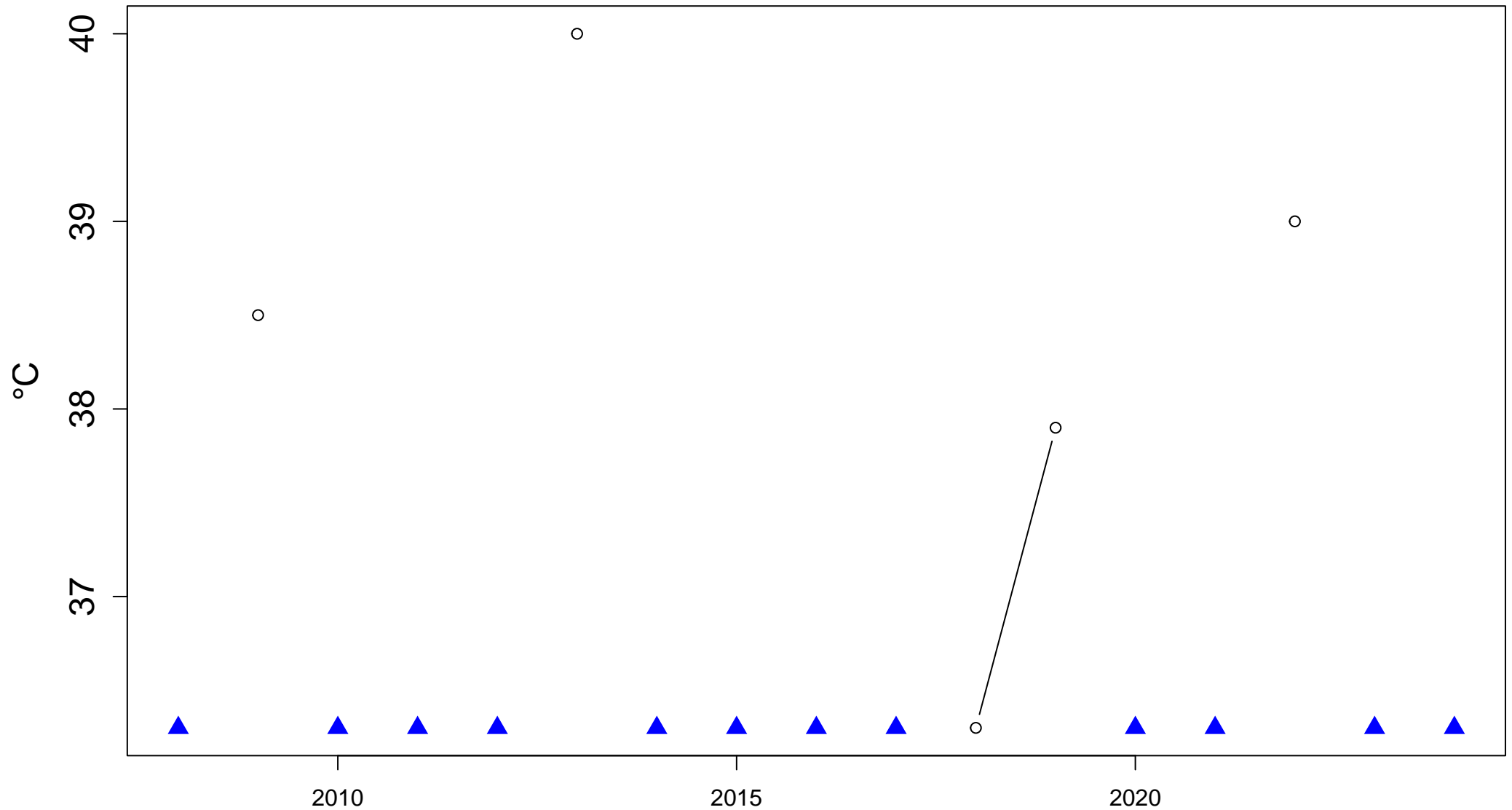
Index: HWM-Tx90. Heatwave Magnitude (mean temperature of all heatwave events)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

Index: HWA–Tx90. Heatwave Amplitude (peak temperature of the hottest heatwave event)

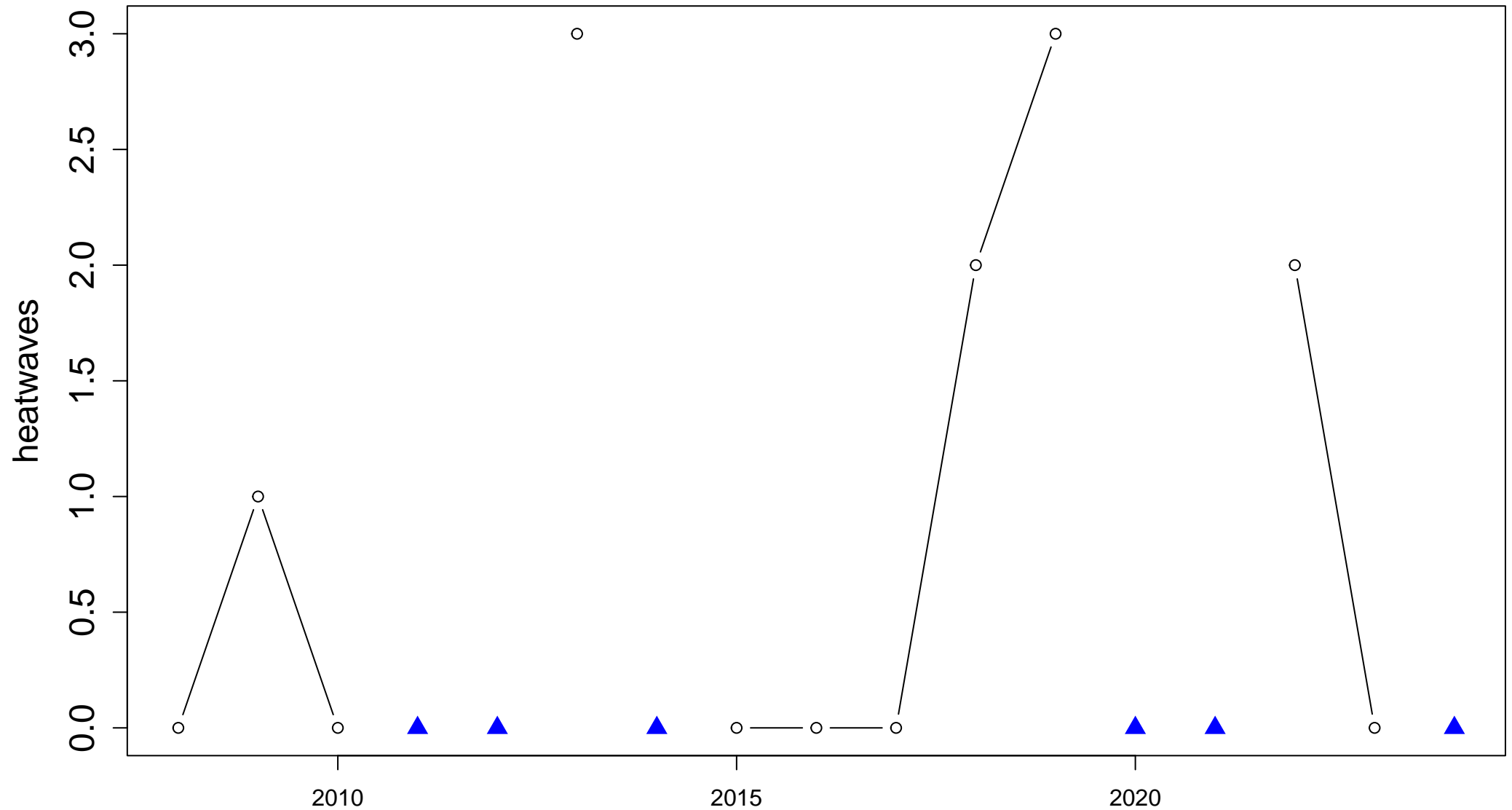


NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.



# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

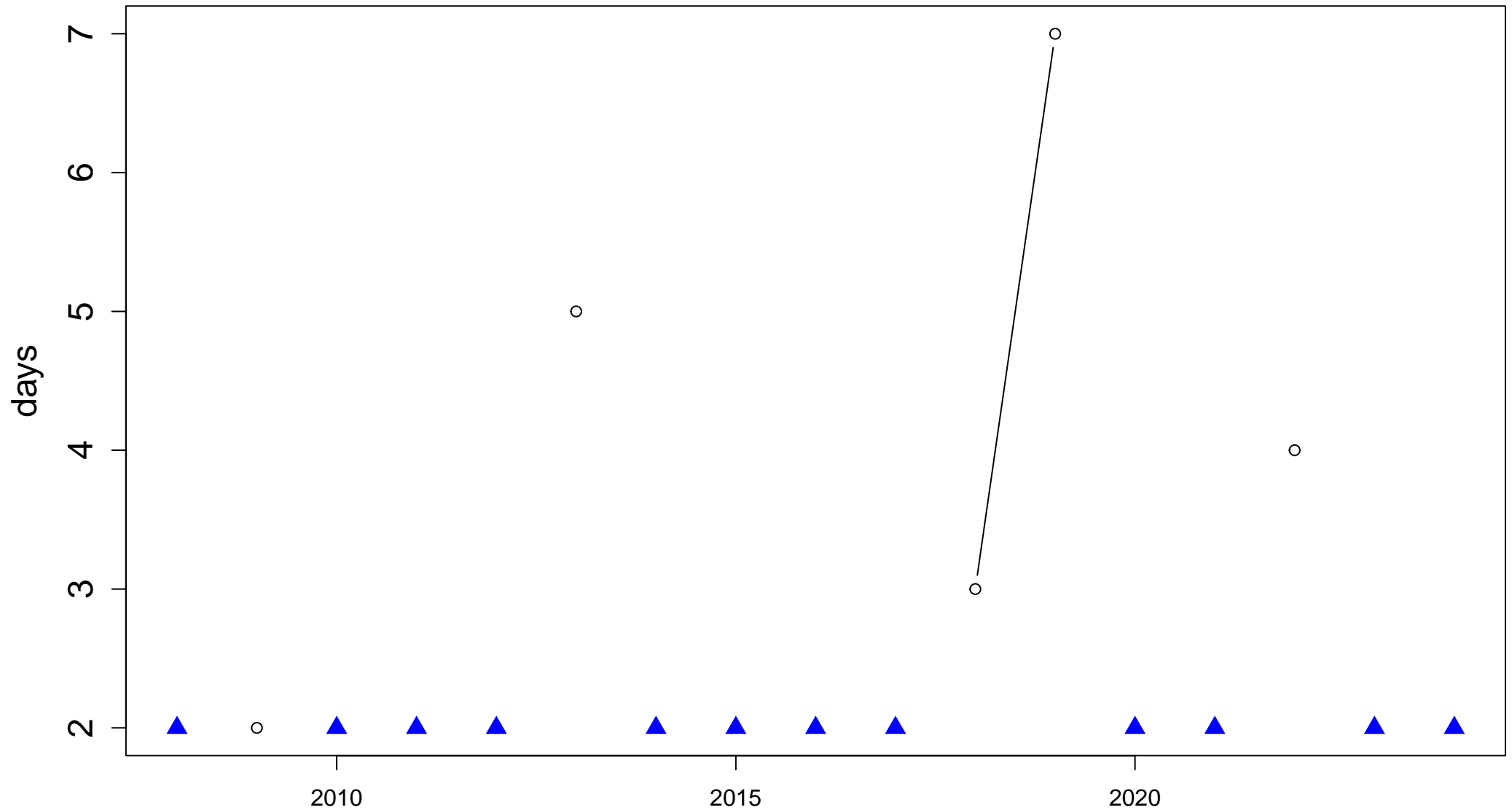
Index: HWN-Tx90. Heatwave Number (number of discrete heatwave events)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

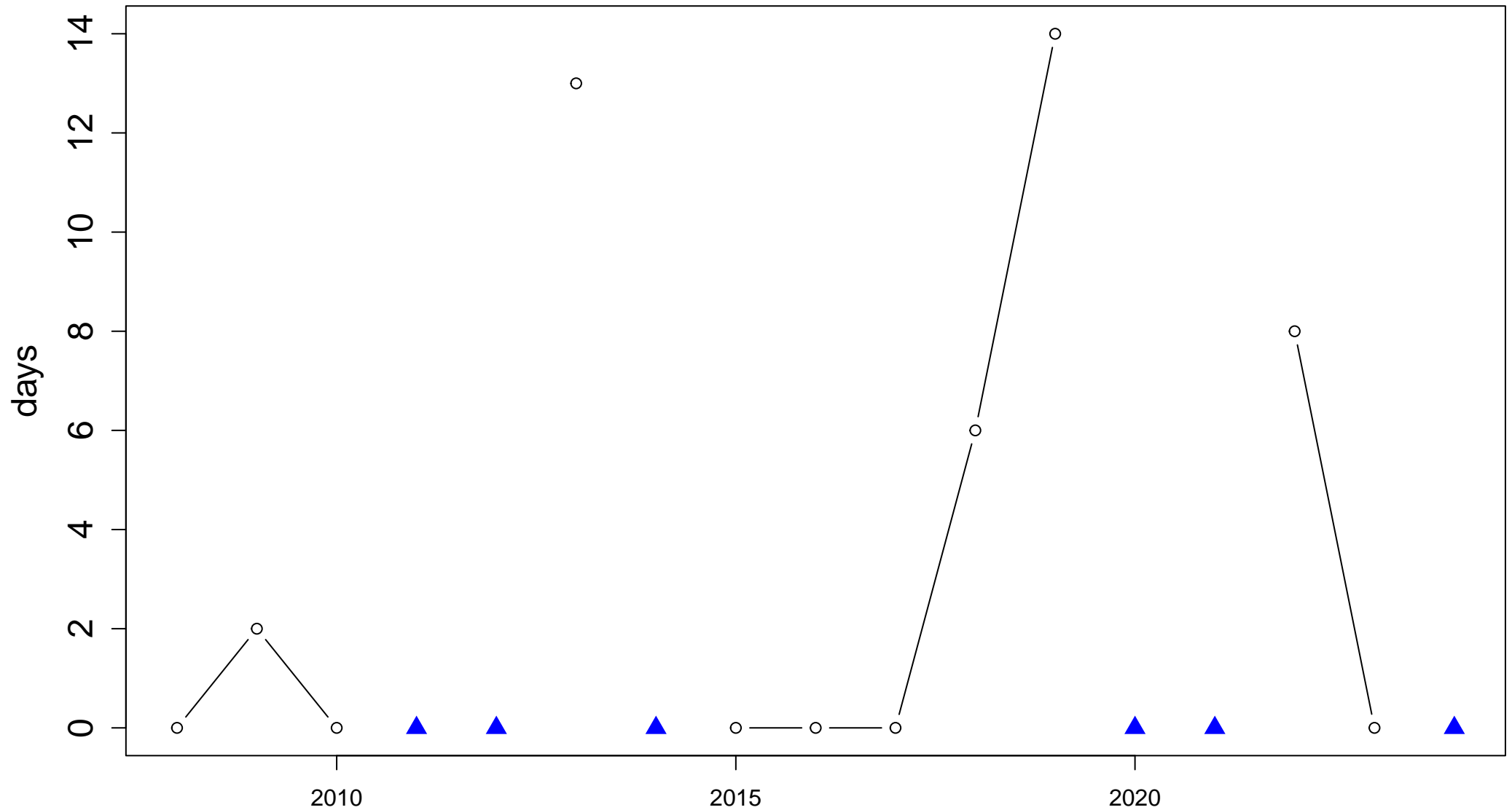
Index: HWD–Tx90. Heatwave Duration (length of longest heatwave event)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

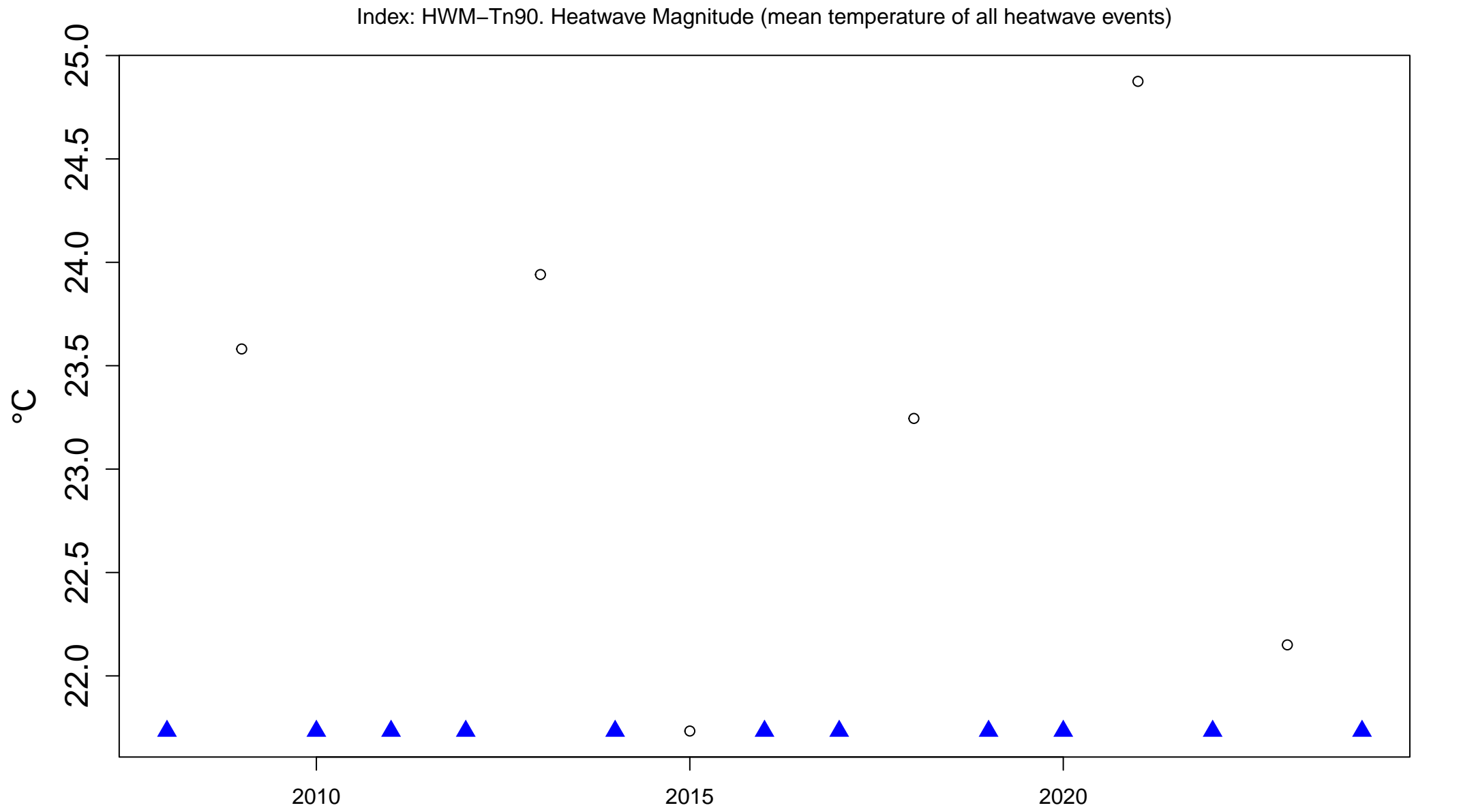
# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

Index: HWF-Tx90. Heatwave Frequency (number of days contributing to heatwave events)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

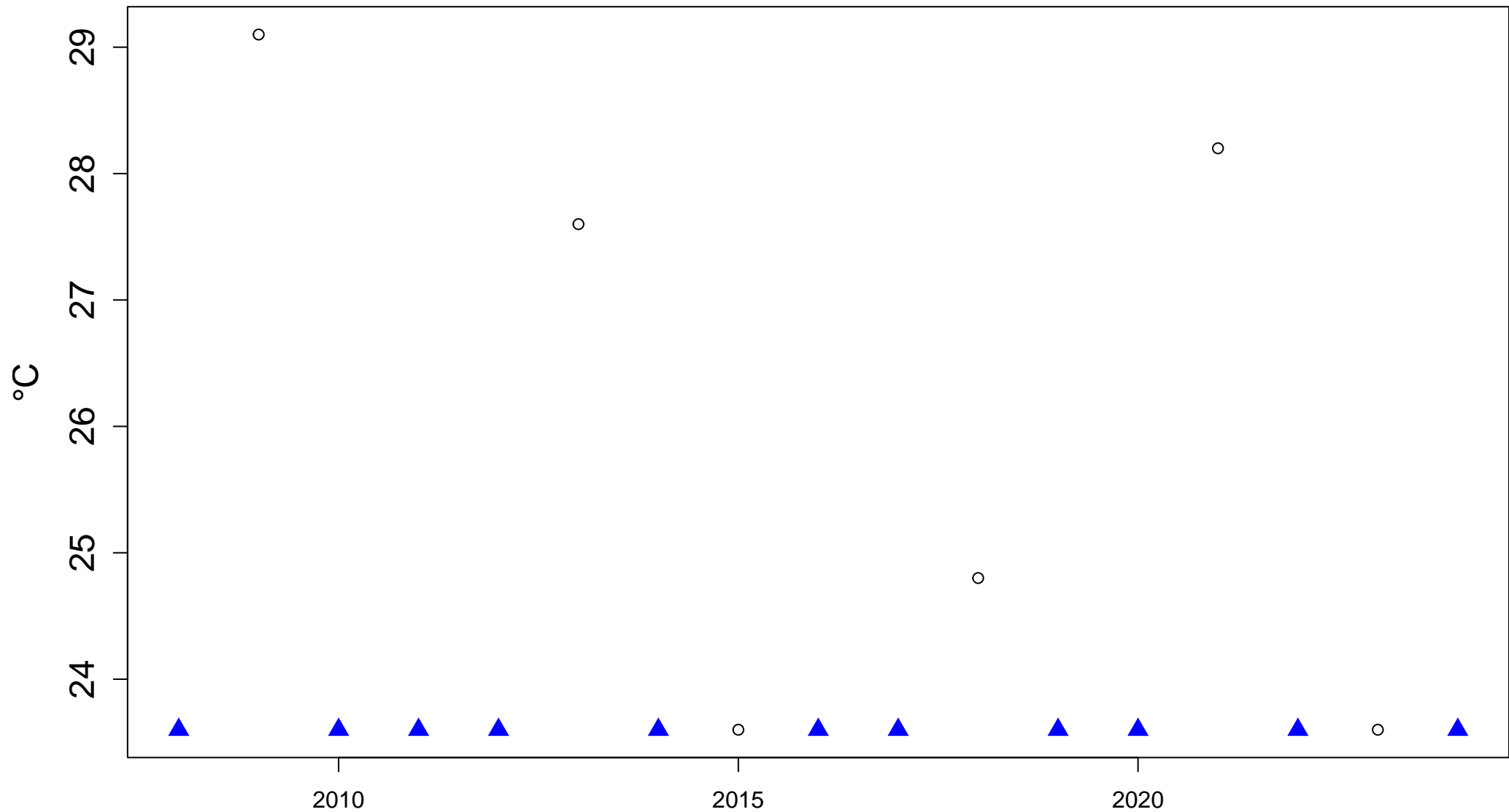
# Station: Santa Maria [−29.72499999°S, −53.72055554°W]



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

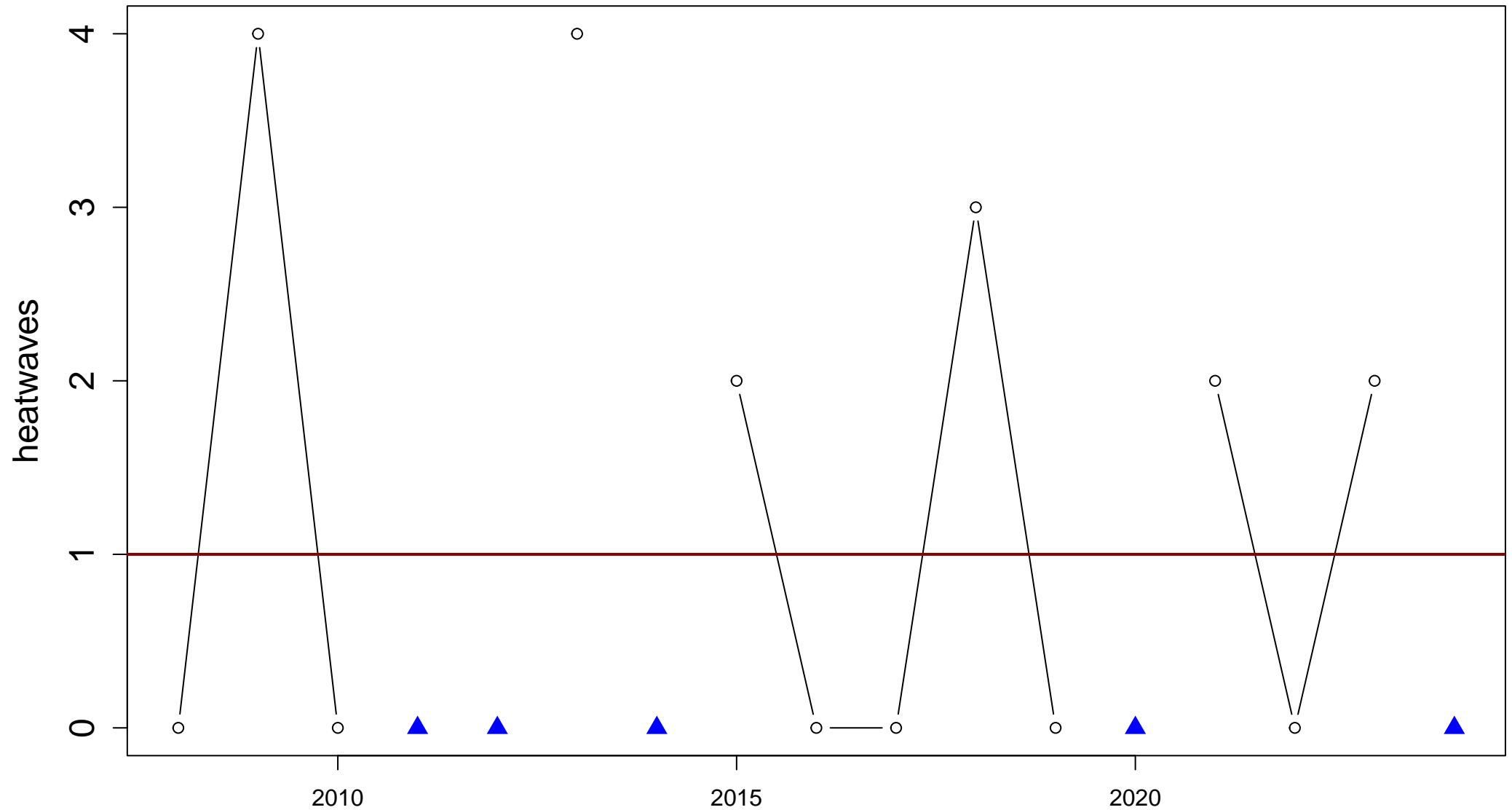
Index: HWA–Tn90. Heatwave Amplitude (peak temperature of the hottest heatwave event)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

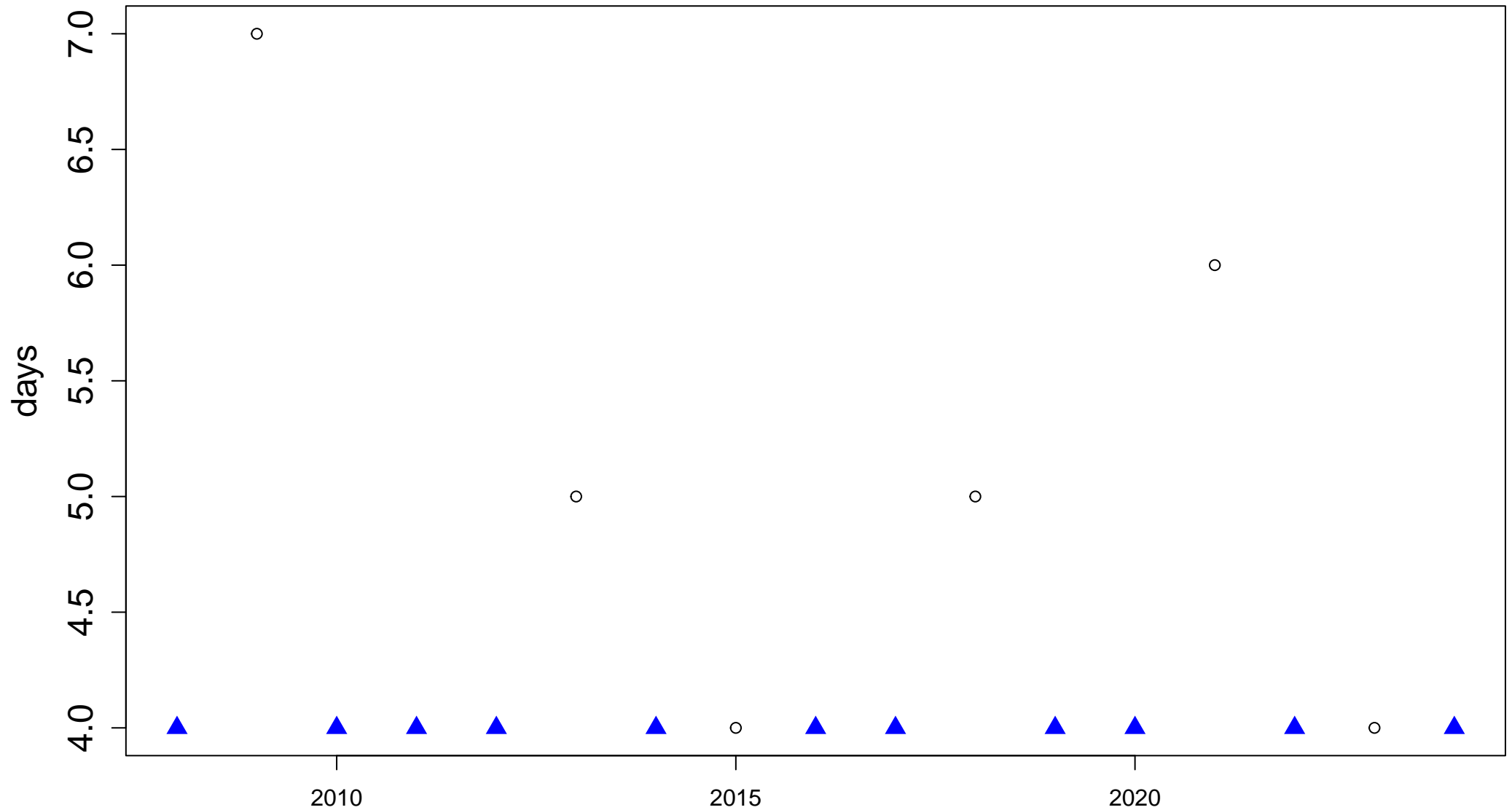
Index: HWN-Tn90. Heatwave Number (number of discrete heatwave events)



Sen's slope = 0 lower bound = -0.25, upper bound = 0.133, p-value = 0.765

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

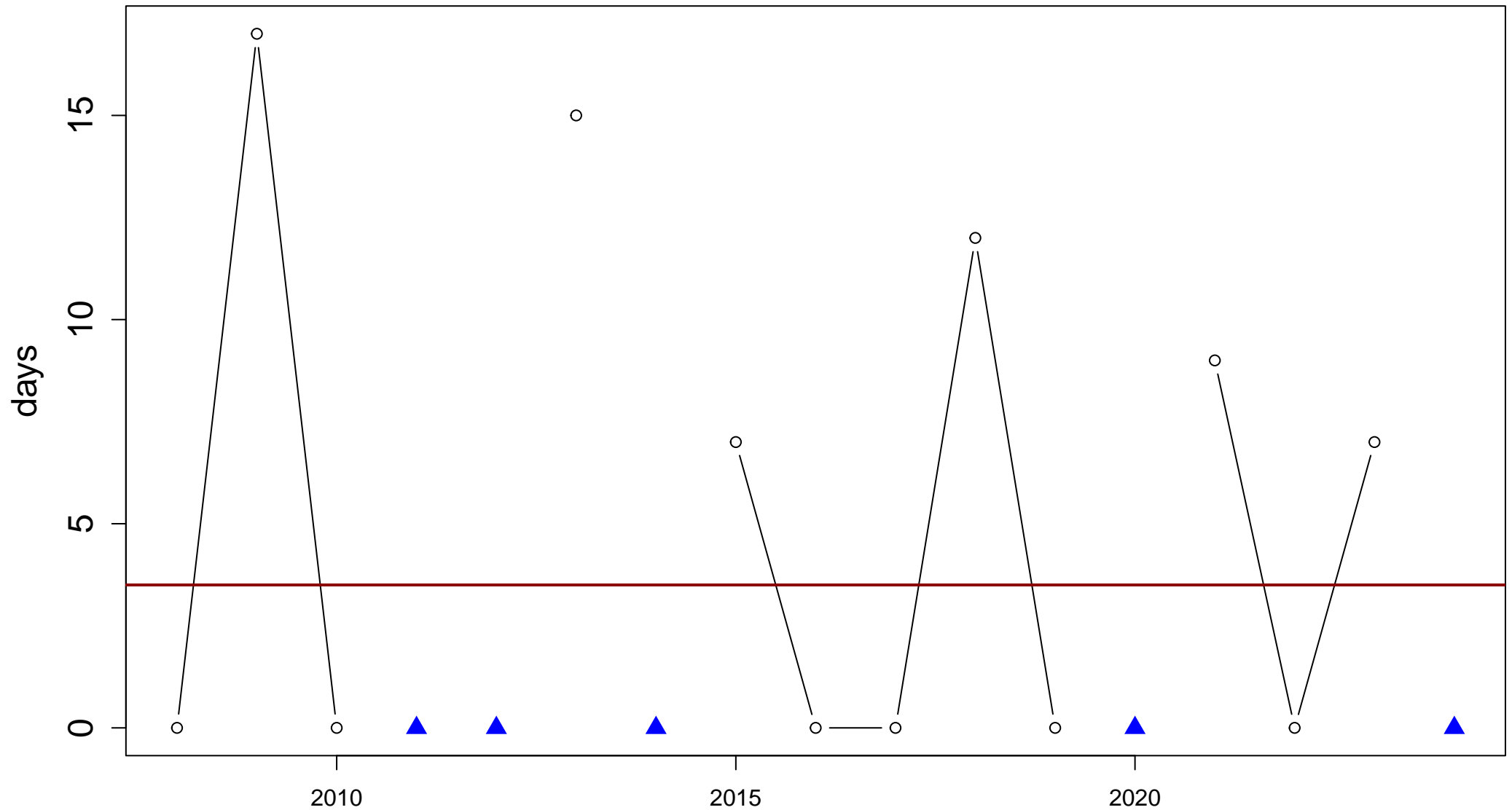
Index: HWD–Tn90. Heatwave Duration (length of longest heatwave event)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

Index: HWF-Tn90. Heatwave Frequency (number of days contributing to heatwave events)

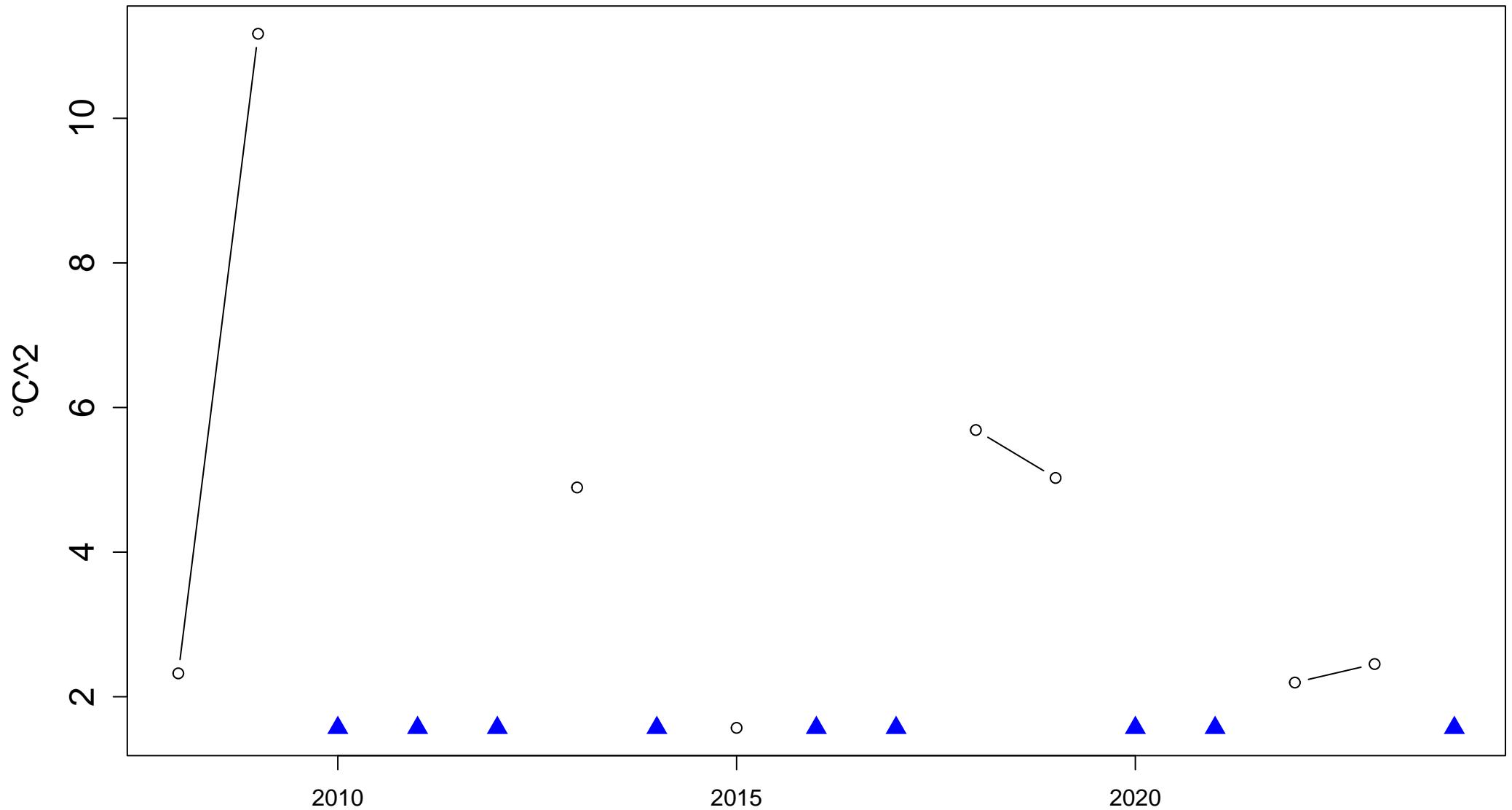


Sen's slope = 0 lower bound =  $-1$ , upper bound =  $0.467$ , p-value =  $0.712$



# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

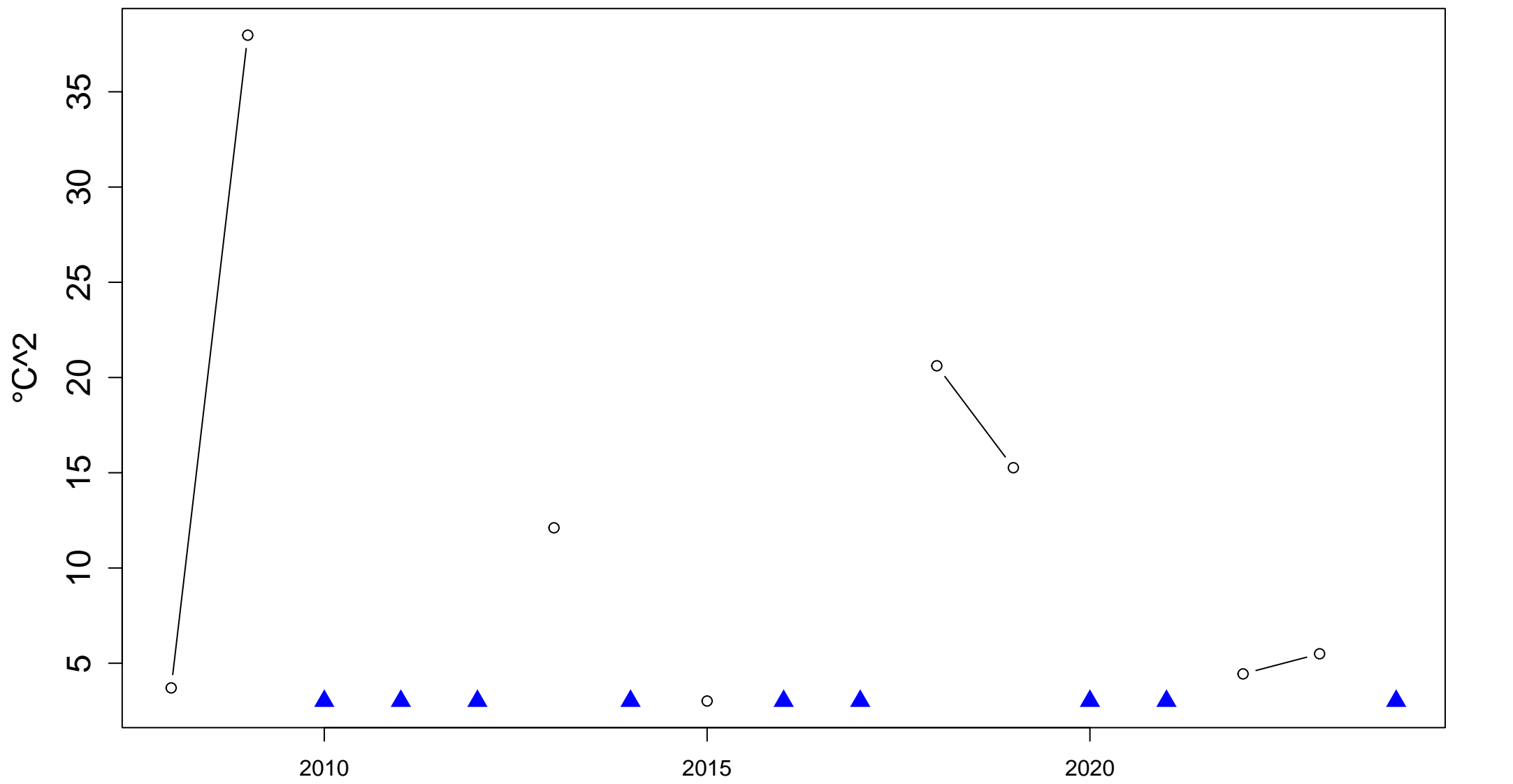
Index: HWM–EHF. Heatwave Magnitude (mean temperature of all heatwave events)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

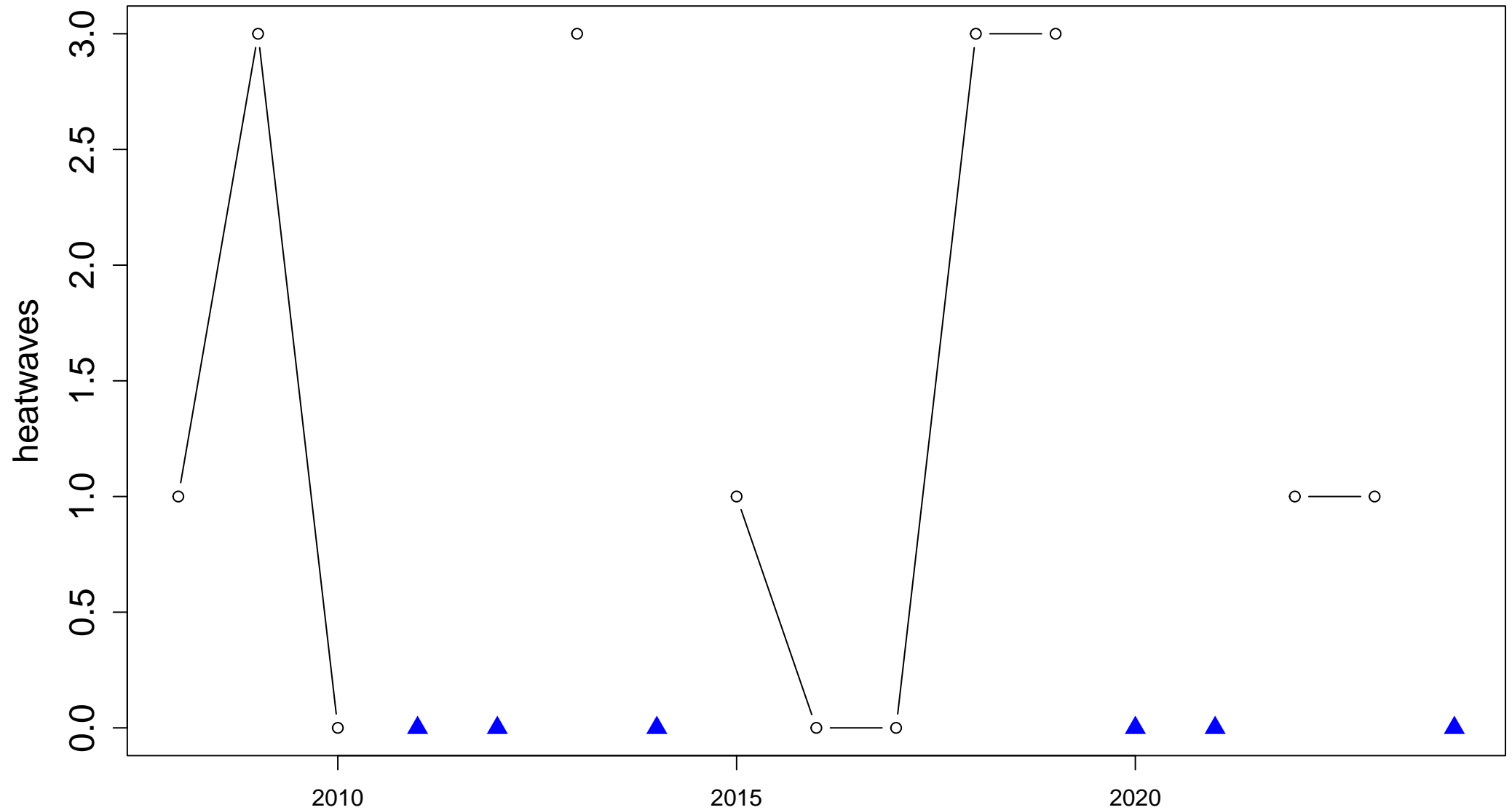
Index: HWA–EHF. Heatwave Amplitude (peak temperature of the hottest heatwave event)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

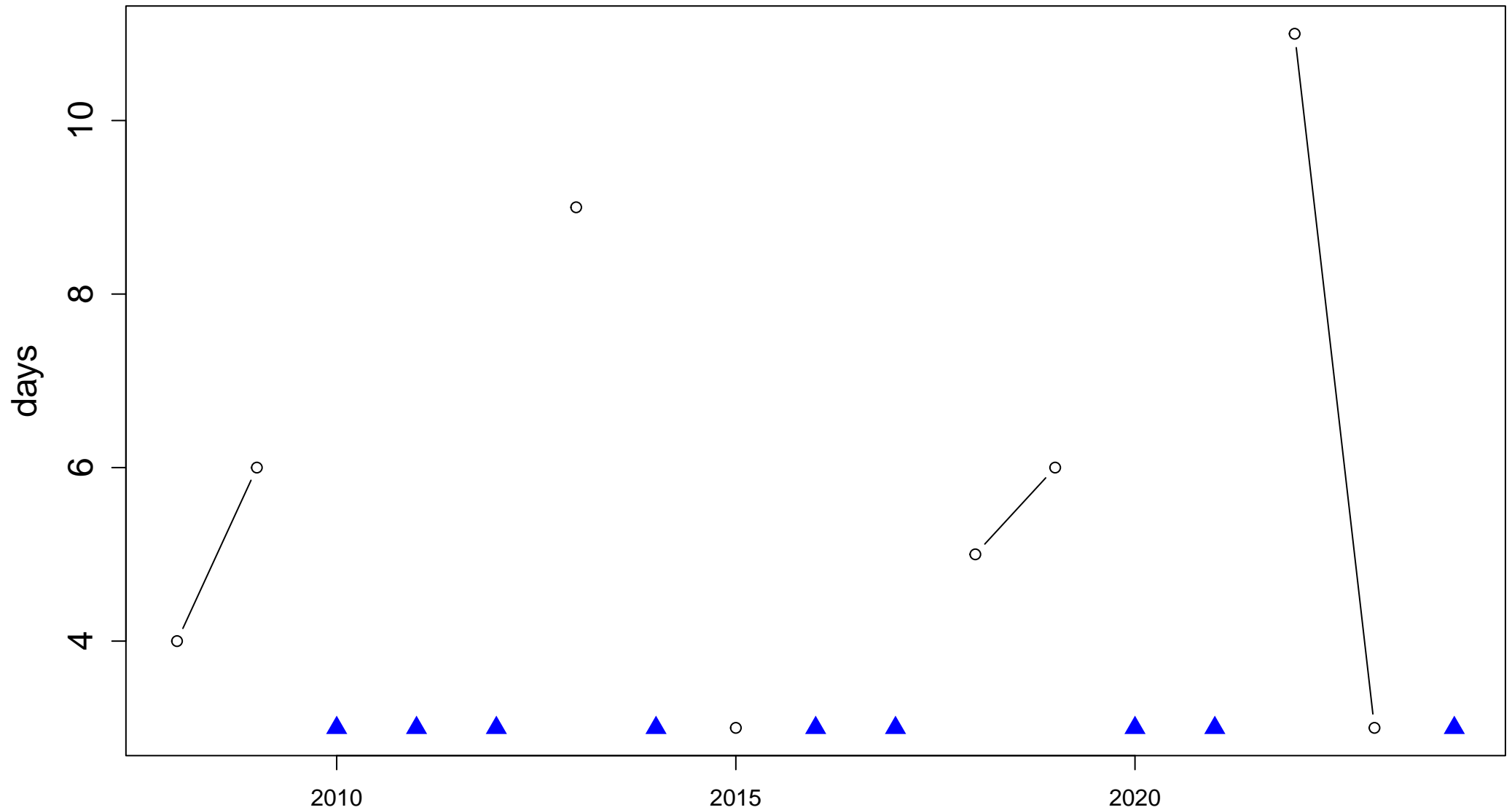
Index: HWN-EHF. Heatwave Number (number of discrete heatwave events)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

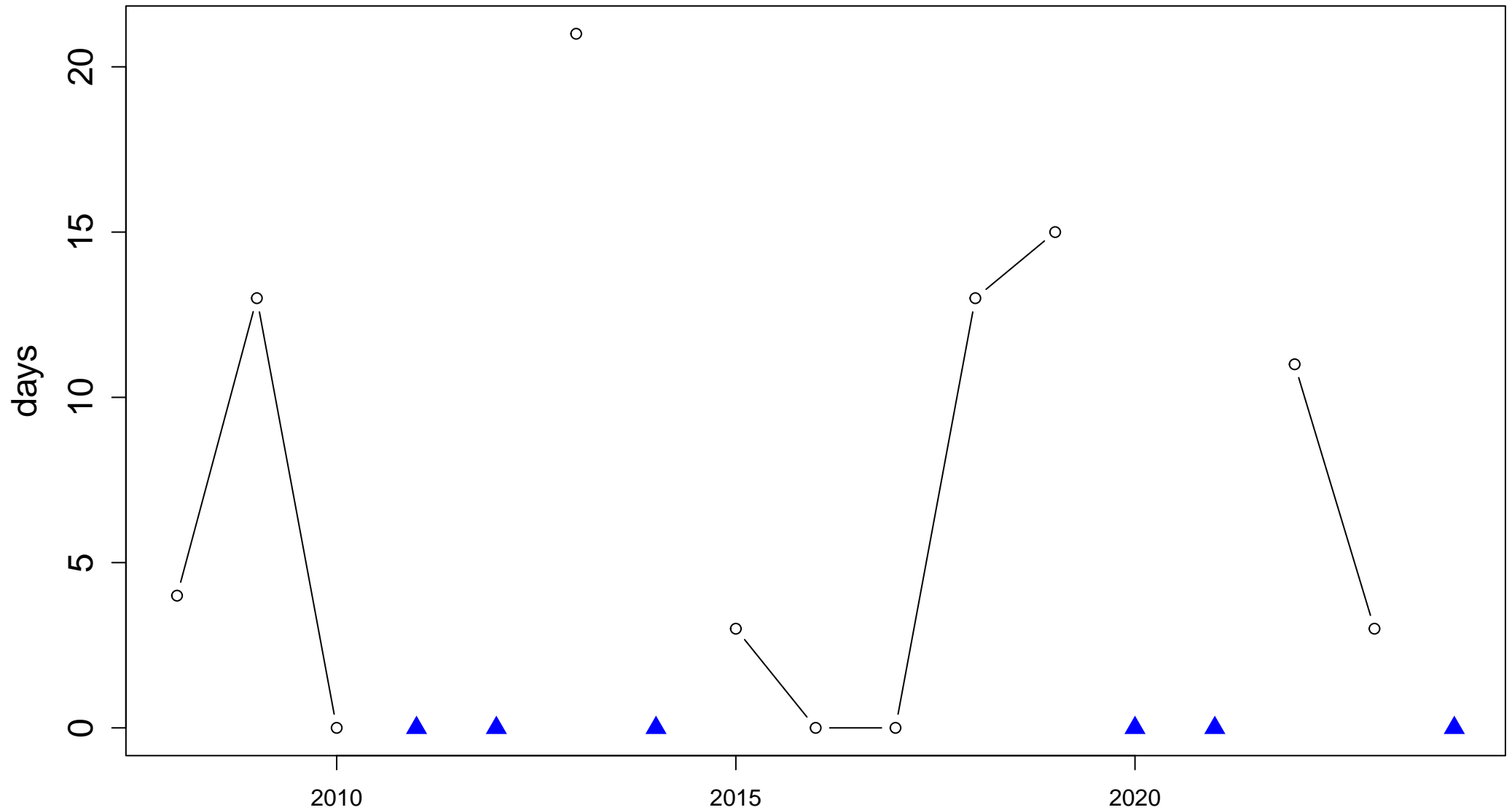
Index: HWD-EHF. Heatwave Duration (length of longest heatwave event)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

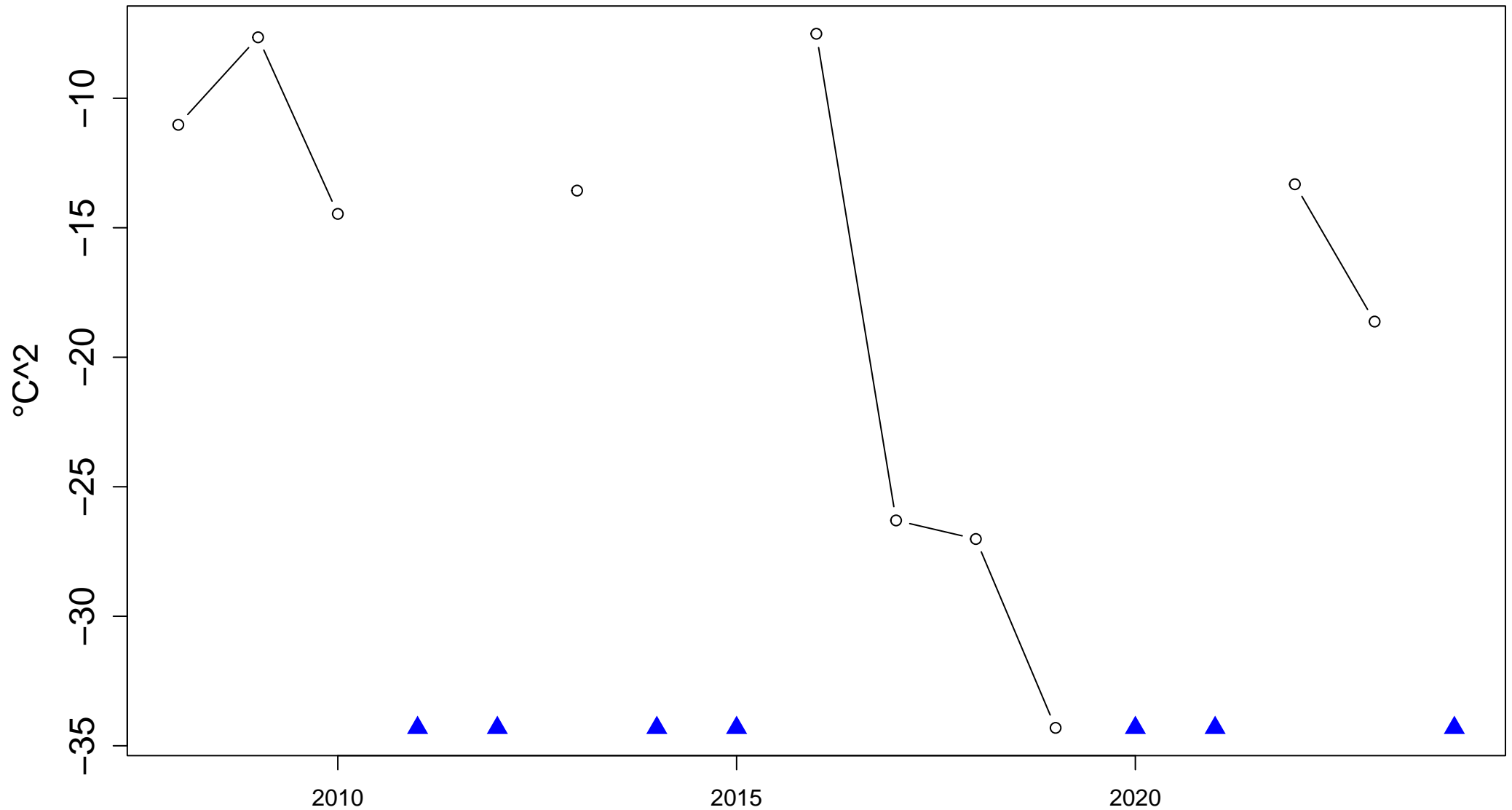
Index: HWF–EHF. Heatwave Frequency (number of days contributing to heatwave events)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.7249999°S, −53.7205554°W]

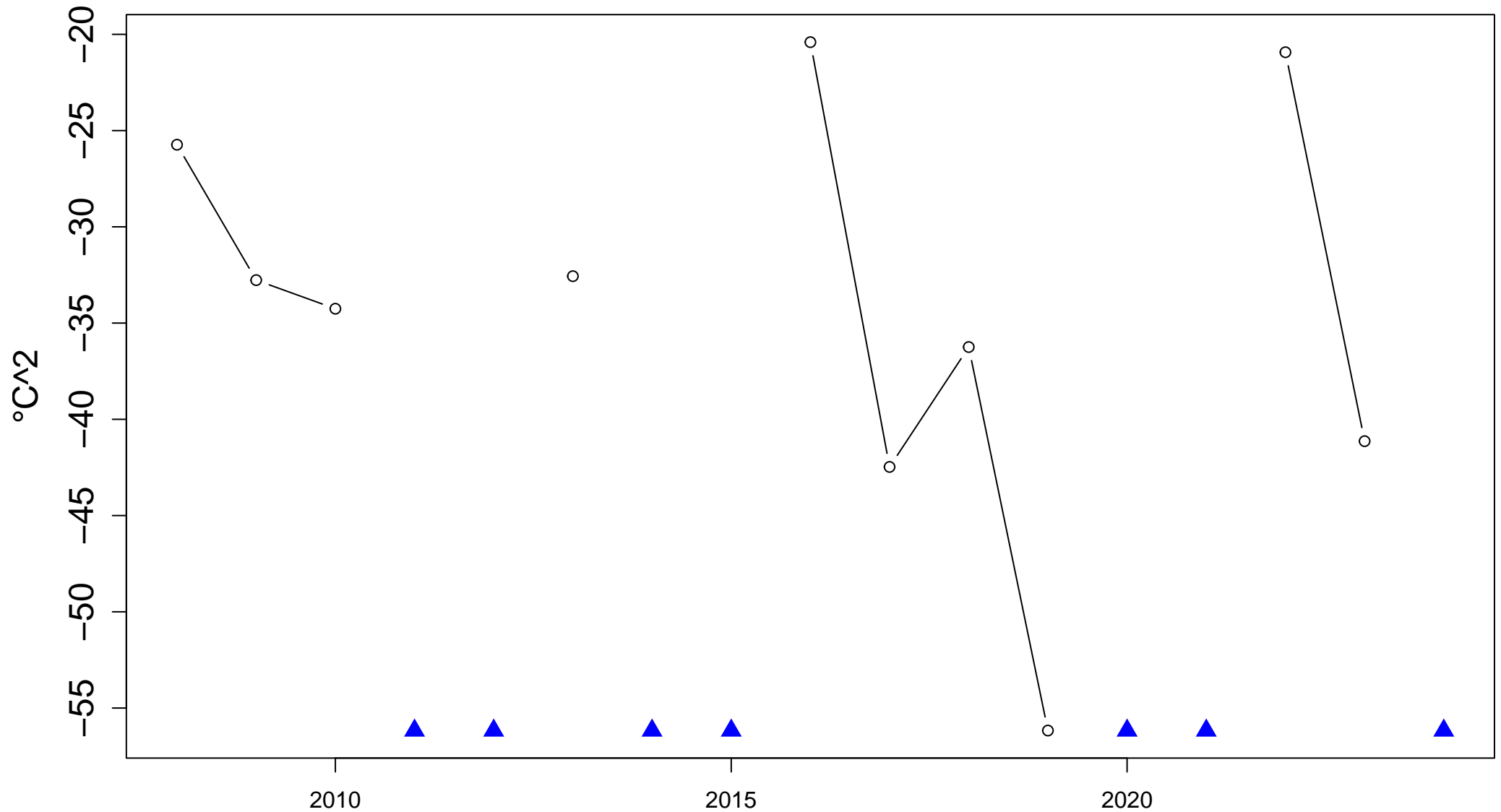
Index: CWM–ECF. Coldwave Magnitude (mean temperature of all coldwave events)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [-29.72499999°S, -53.72055554°W]

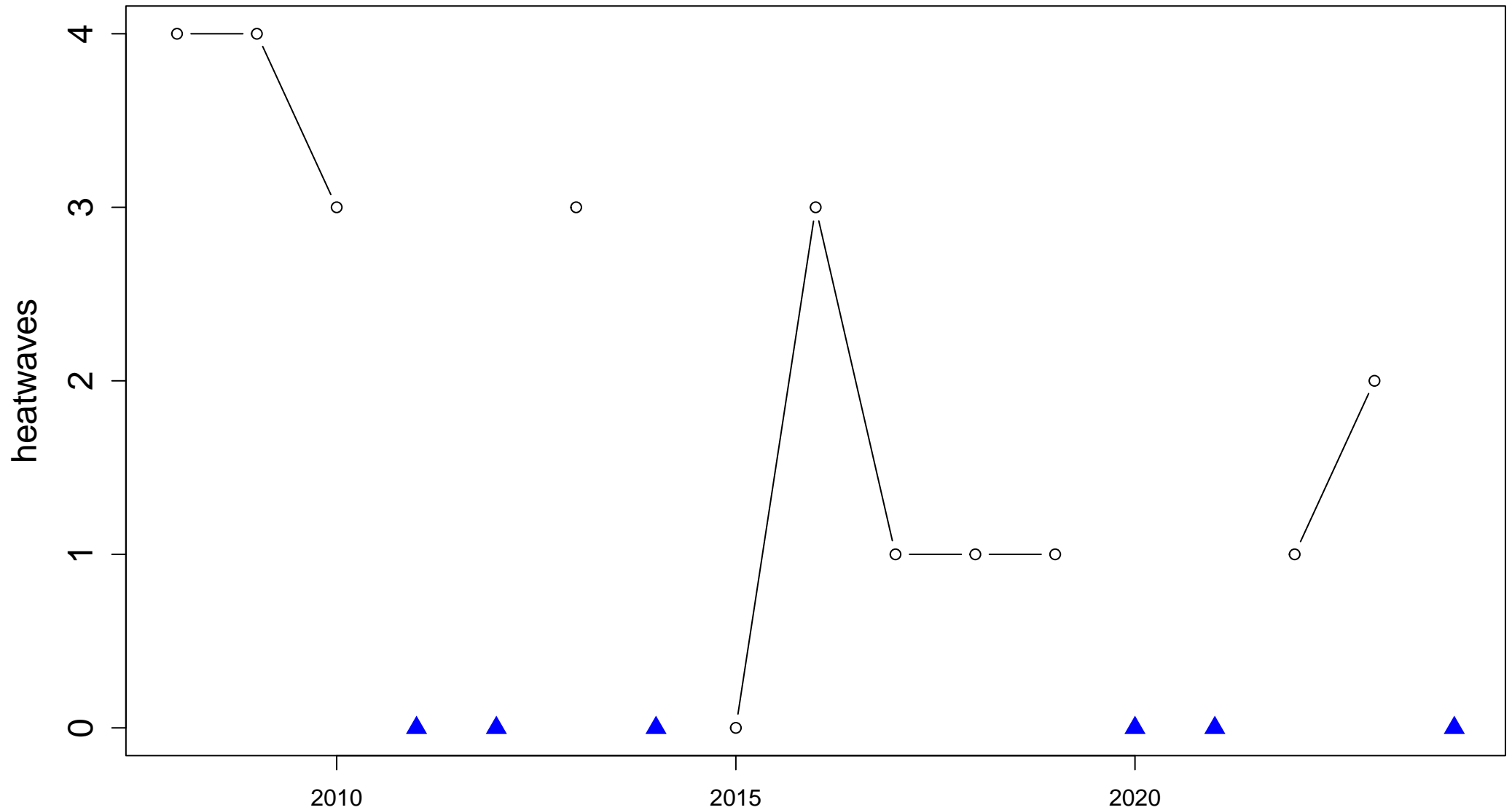
Index: CWA-ECF. Coldwave Amplitude (minimum temperature of the coldest coldwave event)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [−29.72499999°S, −53.72055554°W]

Index: CWN–ECF. Coldwave Number (number of discreet coldwave events)

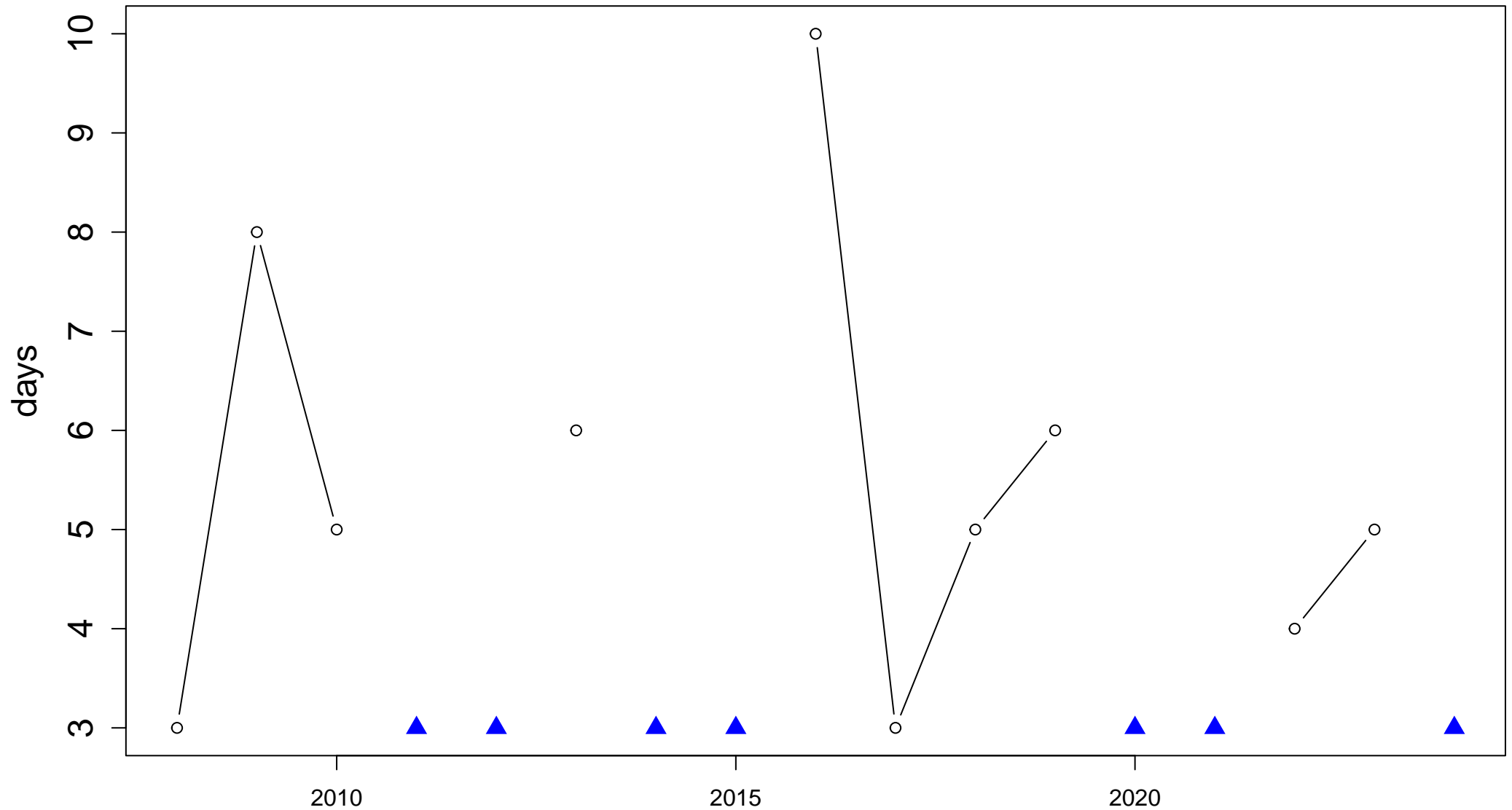


NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.



# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

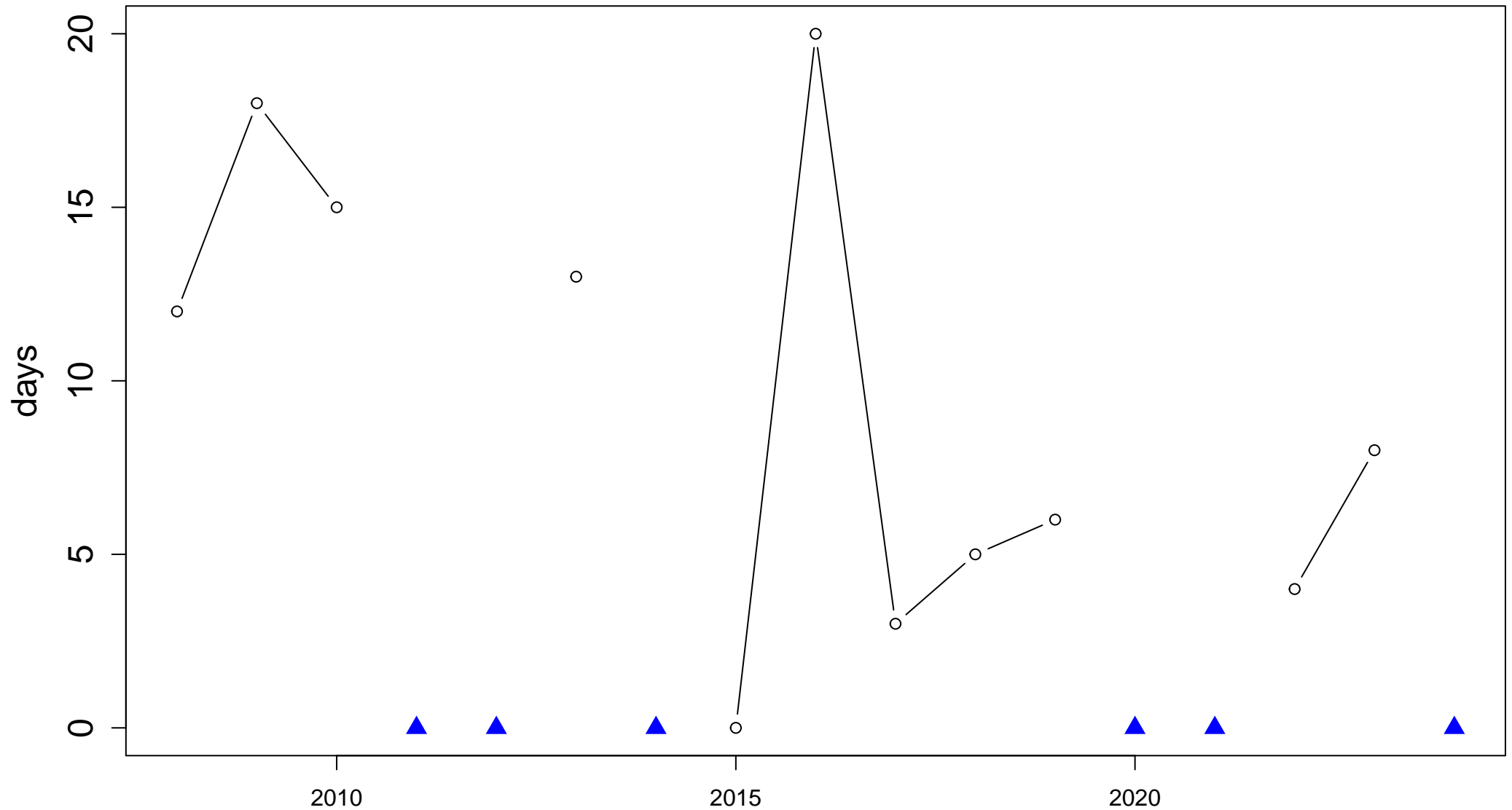
Index: CWD-ECF. Coldwave Duration (length of longest coldwave event)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.

# Station: Santa Maria [ $-29.72499999^{\circ}\text{S}$ , $-53.72055554^{\circ}\text{W}$ ]

Index: CWF-ECF. Coldwave Frequency (number of days contributing to coldwave events)



NO LINEAR TREND: requires at least 10 data points and 70% of time-series to be valid.