

FILTERS: HIGH PASS

High pass filters retain only high frequency signals in a time series. Figure 1 illustrates the separation of the high frequency variability of the temperature over one year by removing (subtracting) the fit to the annual cycle using the [low pass](#) filter developed in previous section.

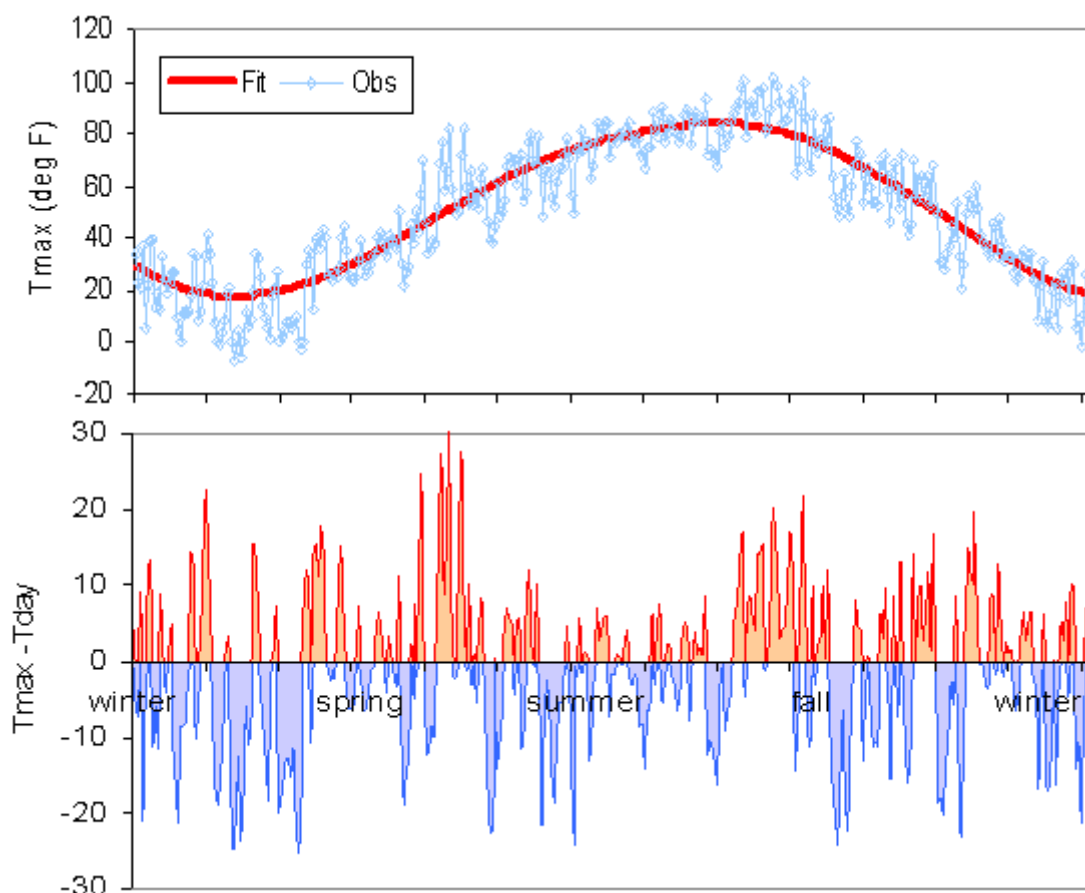


Figure 1. Difference between original time series and a low pass filter (top) results in a time series containing only high frequencies (bottom) in Tmax series at Bismarck, North Dakota

High pass filters allow the analysis of variability on shorter time scales.

[Go to Spectrum](#)