ABSTRACT

This discussion explores the warming trends in the Central England Temperature (CET) data from 1659 to 2013 by using structural time-series methods and techniques. First, I analyzed the CET record using general methodology such as Moving Average (MA) and Smoothed Periodogram. Later on, I defined the new error structure so that the errors could be dependent. Given the new assumption, I suggested an optimized bandwidth and constructed simultaneous confidence bands (SCBs). The CET record has a 90-year cycle and a cubic model is appropriate for the CET record.