



Confidence Levels for the Cycles Found in Air Temperature Data

G. Mabille (1), X. Fettweis (1), M. Erpicum (1), and S. Nicolay (2)

(1) Université de Liège, Géographie, Liège, Belgium (gmabille@student.ulg.ac.be), (2) Université de Liège, Dpt. Mathematics, Liège, Belgium (s.nicolay@ulg.ac.be)

Recently, new cycles have been observed in air temperature data and proxy series using a wavelet-based methodology. Although many evidences attest the validity of this method applied to climatic data, no systematic study of the efficiency of this technique has been carried out. Here, we estimate the confidence levels for this approach, using rigorous scientific principles and show that the observed cycles are indeed significant.