

## **THE IMPACT OF ETESIAN WINDS ON THE EFFECTIVE TEMPERATURE INDEX IN ATHENS**

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### **ABSTRACT**

The study of the Effective Temperature ( $T_{\epsilon}$ ) during the summer season in the greater area of Athens and the impact of the Etesian winds on the values of the index, are the main objects of the present study. In this respect, the persistence of the  $T_{\epsilon}$  high value, together with the associated statistics were thoroughly studied. The main conclusions were summarized as follows: a) A strong impact of the Etesian winds on the “Effective Temperature” index has been statistically traced. b) The theoretical distribution of Eggenberger – Polya, approaches satisfactorily the empirical distribution of the long series of consecutive days, for index values higher than  $25^{\circ}\text{C}$ , a value which is assumed to be the lower limit of extreme heat.