

A comparison between Mediterranean cyclone climatologies

A. Genovés, J. Campins, M.A. Picornell, and A. Jansà

CMT en Illes Balears, INM, Spain (genoves@inm.es)

The climatological knowledge concerning weather systems, in particular cyclones, are nowadays important both in a climatic change and a short range weather forecast frameworks of research. The detection and tracking procedures developed for those purposes are usually automatic and applied on objective analyses or on model outputs. In such a way, the deficiencies or limitations of the numerical models for describing the cyclones directly influence the conclusions obtained from the results of the climatology. In this paper, the differences between two climatologies on Mediterranean cyclones, developed in the framework of MEDEX and obtained both from the ECMWF ERA-40 re-analysis and the operational ECMWF analysis system, are studied for the common period 1998-2002.