A Quasi-Tropical Cyclone over the Western Mediterranean: Dynamical vs Boundary Factors

V. Homar, R. Romero,

C. Ramis, S.Alonso



Grup de Meteorología Departament de Física Universitat de les Illes Balears

D.J. Stensrud





























Air-Sea Interaction • Air-sea interaction instability (Emanuel, 1986 JAS)? • Circulation attributed to the PV anomaly aloft is revealed as the triggering agent of the instability by enhancing values of evaporation from the warm sea surface. W/m² • The principal effect of the upper levels 300 PV anomaly was not a direct surface 250 pressure decrease but the generation of 200 150 surface flow which intensified the 100 evaporation. 03 UTC

