



Analysis of the relationship of multiple tropopause events with cut-off low systems

J. A. Añel (1,2), L. de la Torre (1,2), R. Nieto (1,3), J. Castanheira (2), L. Gimeno (1,3)

(1) Facultade de Ciencias de Ourense, Universidade de Vigo, Ourense, Spain, (2) CESAM, Departamento de Física, Universidade de Aveiro, Aveiro, Portugal (3) CGUL, Universidade de Lisboa, Lisboa, Portugal

Previous studies have pointed out the possible coincidence of multiple tropopause events with the occurrence of cut-off low systems. Here we present an exploratory study of this hypothesis based in radiosonde data from the Integrated Global Radiosonde Archive (IGRA) and daily data of cut-off low systems computed using reanalysis. Comparisons have into account the seasonal differences in the multiple tropopause distribution and focus on zones with global multiple tropopause maxima.