



Comparison of extratropical cyclones characteristics obtained from different reanalyses by three methods

Mirseid G. Akperov and Igor I. Mokhov

A. M. Obukhov Institute of Atmospheric Physics RAS, Moscow, Russia (aseid@ifaran.ru)

Comparison of three methods for the extratropical cyclones identification in the Northern Hemisphere (20-80oN) using reanalyses data for SLP is carried out. Seasonal and annual mean characteristics of extratropical cyclones including their number, intensity, size and duration are analyzed for different regions and for extratropical latitudes as a whole. Characteristics of extratropical cyclones obtained from different reanalyses (NCEP/NCAR, ERA-40, ERA-INTERIM) with various spatial resolution are compared. Influence of orographic effects for identification of cyclones and their trajectories is analyzed.