

Climatology of the areas of baroclinic development in the Northern Hemisphere

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The objective of this work is to study the main climatological features of baroclinic development in the Northern Hemisphere. In order to do this we use data from NCEP-NCAR reanalysis for the period 1958-1998 on a $2.5^\circ \times 2.5^\circ$ (longitude, latitude) grid. We use extremes of vorticity advection, vertical variation of vorticity advection, thickness advection, vertical variation of thickness advection and geopotential at 200 hPa, 500 hPa and 850 hPa as diagnosis parameters.