Integration of Primitive Equations of the Atmosphere using semi – Lagrangian Approach

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System of primitive equations of the atmosphere represents a system of nonlinear partial differential equations. Our aim is to solve the system of primitive equations numerically using the most economical approach of semi-Lagrangian scheme, where the grid ofpoints does not wary in time. In our approach interpolation takes the largest part of computational time. In this reason we analyze the dependence of semi – Lagrangian scheme on interpolation for two-dimensional examples.