

Current state and development perspectives of meteorological data assimilation in Hydrometcentre of Russia

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An experimental version of operational data assimilation system is described. This system is based on semi-Lagrangian atmospheric model and optimal interpolation. Some selected results from operational tests are presented, the encountered problems are discussed. The ways and outlook to implement 3D variational assimilation as a first step of development of up-to-date data assimilation system are considered. 3D variational assimilation will allow to assimilate properly atmospheric remote sensing data