

Oxana Drofa, researcher

Principal research topics: development of various components of Numerical Weather Prediction (NWP) models and application of NWP models for study of atmospheric phenomena and for practical meteorological forecast.

Degree in Meteorology and Climatology cum laude at Moscow State University "M.V. Lomonosov", thesis title "Numerical model of a cumulonimbus" in 1984.

Ph.D in Physical and Mathematical sciences with specialisation in meteorology, thesis title "Parametrisation of microphysical processes for the numerical modeling of the atmosphere at the mesoscale" at Hydrometeorological Centre of Russia, Moscow.

1995-1999, during the post-graduate course, worked with a permanent position of meteorologist at Hydrometeorological Centre of Russia, Moscow, with main research subjects: parametrisation of microphysical processes for a numerical hydro-dynamical model of the atmosphere, assimilation of satellite and radar data in a NWP model, development of numerical schemes of dynamical atmospheric processes.

1999-2011, worked with various contracts of temporary position in ISAC (former ISAO) of CNR, Bologna, with main research subjects: parametrisation of microphysical processes, parametrisation of the hydro-thermal processes in the soil and vegetation cover and at the surface, application and development of geophysical datasets for NWP models, assimilation of satellite and radar data in NWP models, coupling of NWP models with a hydrological numerical model for hydrological forecast, application of NWP models for operational meteorological forecast, application of the radiative transfer model RTTOV (SAF of Eumetsat) with simulated data of NWP models.

2011- present, works as a researcher with a permanent position in ISAC-CNR, Bologna with main research subjects: development of various components of NWP models, objective verification of NWP model results, application of NWP models for the study of atmospheric phenomena, practical application of NWP models for meteorological forecast.