Curriculum Vitae
IRINA V. DJALALOVA

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Education

B.S. and M.S. in Physics, specialization in Applied Mechanics, Moscow State University, Russia, School of Mathematics and Mechanics, 1973-1980

Positions

I.Djalalova is a Senior Research Scientist in CIRES. She works in CIRES/NOAA since 2005. Previously she worked for 8 years in NOAA as a Senior Application Engineer being a contractor through the Science and Technology Corporation.

Summary of air quality research

I. Djalalova has been working on air quality forecasting research for over 10 years. She was a team member during the multi-agency air quality experiments of NEAQS (2004) and TEXAQS II (2006). She developed, organized and supported the programming tools for visual comparison of observed and modeled meteorological and chemical variables, and evaluated several bias-corrected and model ensemble techniques for surface ozone and PM2.5. Most recent collaborative project with NOAA/NWS is applied to the creation and evaluation of the operational bias-correction scheme to be used for ozone and PM2.5 forecasts. In November 2015 the bias-corrected technique for PM 2.5 forecast has been implemented to the Community Multiscale Air Quality (CMAQ) model in NCEP

Summary of renewable energy research

I. Djalalova has been working on renewable energy research since 2011. She was a team member for the first DOE-funded Wind Forecast Improvement Project (WFIP), the purpose of which was to improve the skill of NOAA's short-term wind speed forecast for wind energy generation. Mrs. Djalalova managed and supported the real-time data flowing from all instruments in two project locations to PSD, checked the assimilation procedure to the GSD models, built the public and private web sites for the visual comparison of the model/observation data, and statistically evaluated the models. The output of WFIP project was very successful, therefore DOE decided to extent the project for different wind energy purposes. At present time Mrs. Djalalova is involved in WFIP2, 18-months multi-agency project at Columbia Gorge Rver that has to improve the NWP model forecast at the complex terrain.