Denis Sergeev

School of Environmental Sciences
University of East Anglia
Norwich
NR47TJ
UK

📱 +44 7518298358
✉ d.sergeev@uea.ac.uk
🌐 dennissergeev.github.io
⌂ dennissergeev
🐦 meteodenny

Areas of Interest

- Polar lows dynamics
- Mesoscale meteorology
- Atmospheric energetics
- Atmospheric boundary layers
- Extraterrestrial meteorology

Education

2014–Present PhD in Meteorology
Thesis title: **Dynamics and Predictability of Polar Lows**
School of Environmental Sciences
University of East Anglia
Supervisor: Ian A. Renfrew

2009–2014 Specialist Diploma in Meteorology
With Honours
Thesis title: **Idealised numerical modelling of polar mesocyclone dynamics**
Faculty of Geography
Lomonosov Moscow State University
Supervisor: Victor Stepanenko

Publications

Peer-reviewed

1. Eliseev AV, Sergeev DE. 2014. Impact of Subgrid Scale Vegetation Heterogeneity on the Simulation of Carbon Cycle Characteristics. *Izvestiya, Atmospheric and Oceanic Physics*, **50**(3): 259–270

Proceedings

1. Sergeev DE, Stepanenko VM. 2013. Numerical modelling of polar mesocyclones generation mechanisms. *International Conference "Turbulence, atmosphere and climate dynamics" dedicated to A.M. Obukhov*, **Selected papers**: 168–170

2. Sergeev DE, Zamyatina MY, Stepanenko VM. 2013. Thermal regime features of Kronotsky lake (in Russian). *Kronotsky State Natural Biosphere Reserve Proceedings*, **3**: 29–41

3. Sergeev DE, Stepanenko VM. 2012. Parameterization of mesoscale sensible heat and methane fluxes in the region of Western Siberia. *International Conference and Early Career Scientists School on Environmental Observations, modelling and Information Systems (ENVIROMIS-2012)*, **Selected papers**: 67–69

Awards and Scholarships

2015 **Travel Award**
Dynamics of Atmosphere-Ice-Ocean Interactions in the High Latitudes workshop

2014–2018 **Lord Zuckerman scholarship**
School of Environmental Sciences, University of East Anglia

2014 **Young Scientist's Travel Award (YSTA)**
European Geosciences Union (EGU) General Assembly

2014 **Russian Academy of Sciences Young Scientist Medal**

In the area of oceanology, atmospheric physics and geography

2009 **3rd place in the All-Russian Geography Olympiad**

2009 **1st place in the Lomonosov Geography Olympiad**

Grants

2014–2016 **Characteristics of the mesoscale atmospheric circulations in the Arctic and their influence on the atmosphere-ocean energy exchange**
Russian Foundation for Basic Research (RFBR) Grant

2013–2015 **Multiscale modelling of turbulent atmospheric flow above sea surface with inhomogeneous ice cover**
Russian Foundation for Basic Research (RFBR) Grant

2013–2015 **Developing and verification of the mesoscale sensible heat and tracers fluxes over hydrologically inhomogeneous surface**
Grant of the President of Russian Federation

Computer Skills

Operating systems	**Linux**, Unix, Windows
Computer Languages	**Python**, Fortran
Data analysis and visualizing	**Python**, MATLAB, NCL, Paraview
Parallel programming	MPI, OpenMP
Version control systems	Git, Subversion
Document preparation	LaTeX, Markdown
Web development	HTML, CSS

Languages

Russian	Native speaker
English	Fluent
French	Basic