

Denis Sergeev

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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