

## CURRICULUM VITÆ

Revised 18 December 2013

### Kozlov Daniil Nikolaevich

**Date and place of birth** 22 August 1978, Moscow, Russia  
**Nationality** Russian Federation  
**Marital status:** Married, two children born in 2004 and 2009  
**Academic Background** PhD in geography (2009)  
Master degree in geography (2002)  
Bachelor degree in geography (2000)  
**Current Position** Lomonosov Moscow State University, faculty of Geography, department of Physical Geography and Landscape Science, Associate Professor  
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D. Kozlov graduated with honors from the Lomonosov Moscow State University in 2002. Since that, he has worked at the Lomonosov Moscow State University (MSU), faculty of Geography, department of Physical Geography and Landscape Science as an engineer (2002-2005), supervisor (2005-2010), and associate professor (2010+).

Research interests of D. Kozlov are focused on computer-based analysis of spatio-temporal organization of natural and natural-anthropogenic ecosystems. He is a recognized expert in GIS, remote sensing in geography, computer-based large-scale soil mapping. He participated in the designing of the network of protected areas in the Southern Urals, Yakutia, and the republics of Central Asia, in the monitoring of forest ecosystems near Moscow, in the study of the regularity of agrogenic and postagrogenic transformation of soils in the Nonchernozemic part of European Russia. His Ph.D. thesis (2009) developed a methodology of a large-scale digital soil mapping according to the approach of V.M. Friedland.

He was a principal participant in many Russian and international research projects supported by the Council for Russian Federation President Grants, the Russian Foundation for Basic Research (RFBR), the World Wildlife Fund for Nature (WWF), the European Community, the Academic Council of the Faculty of Geography of MSU.

D. Kozlov teaches "GIS in landscape studies", "Aerospace methods in landscape studies", "Physical geography of Russia and adjacent regions", "Large-scale soil mapping", "Geography" (practical studies and seminars), "Landscape Studies" (practical studies and seminars). He is a supervisor of the student summer field practice and winter expeditions.

### RESEARCH INTERESTS

- Modeling of spatial structure (vegetations-soils-ecosystems-landscapes);
- Mass-energy exchanges processes in ecosystems;
- Land use and land cover change;
- Dendroindication of natural processes and anthropogenic influence;
- GIS and remote sensing (SAGA, MapInfo, Surfer, ERDAS, Idrisi, ENVI, etc.);

## EMPLOYMENT

- Lomonosov Moscow State University, faculty of Geography, department of Physical Geography and Landscape Science, *full-time associate professor*
- Timiryazev Russian State Agrarian University, Faculty of soil science, agricultural chemistry and ecology, Laboratory of agroecological monitoring, modeling and forecasting ecosystem (LAMP), Moscow, Russian Federation Government Grant No. 11.G34.31.0079, *part-time researcher*
- Dokuchaev Soil Institute of Russian Academy of Agricultural Sciences, Moscow, *part-time researcher*
- Centre for problems of ecology and productivity of forests, Russian Academy of Sciences, Moscow, *part-time researcher* (2009-2011)
- Severtsov Institute of Ecology and Evolution, Russian Academy of Sciences, Moscow, *part-time researcher* (1999-2002)

## PARTICIPATION IN RESEARCH PROJECTS (GRANTS)

- "*The development of innovative technology mapping of natural and natural-anthropogenic geosystems for problems of landscape planning and natural resources management*", 2010-2012, Russian Federation President Grant № MK-2859.2011.5, the leader
- "*The intralandscape differentiation of energy-mass exchange processes in coniferous-deciduous forests of Valdai Hills based on remote sensing and eddy covariance measurements*", 2012-2013, Grant of Geographical Faculty of Lomonosov Moscow State University, the leader
- "*Spatial-temporal regularity of modern ecosystem functioning regimes of poorly studied Tuva area (Tere-Khol intermountain lake trough)*", 2011-2012, Grant of Geographical Faculty of Lomonosov Moscow State University, the leader
- "*Modern pollen assemblages of European Russia as a basis for fossil data interpretation*", 2011-2013, Russian Foundation for Basic Research (RFBR Grant № 11-04-01467), the principal participant
- "*The cartographic model of agrogenic transformations in soil cover within landscape units*", 2011-2013, Russian Foundation for Basic Research (RFBR Grant № 11-04-02064), the principal participant
- "*Variability of carbon dioxide source and sink in boreal ecosystem of a southern taiga in global changes conditions*", 2009-2011, Russian Foundation for Basic Research (RFBR Grant № 09-04-00151), the principal participant
- "*Specificity and evolution of pedogenic and geochemical processes in extracontinental cryosubarid-arid landscapes (Terekhol intermountain lake trough, south-east Tyva)*", 2009-2011, Russian Foundation for Basic Research (RFBR Grant № 09-04-01742), the principal participant
- "*Investigation of greenhouse gases fluxes on a basis of eddy covariance method of monitoring*", 2009-2010, Russian Foundation for Basic Research (RFBR Grant № 09-05-13564), the principal participant
- "*Spatial variation of the absorbed energy, exergy and a temperature field in taiga landscapes*", 2006-2009, Russian Foundation for Basic Research (RFBR Grant № 06-05-64937), the principal participant
- "*Habitat relations of large mammals in the protected area located in the southern boreal zone (Central Forest state nature biosphere reserve)*", 2006-2008, (RFBR Grant № 06-04-48536), the principal participant
- "*Regional and local geographic factors of distribution and evolution of wetlands in North Eurasia*", 2005-2007, (RFBR Grant № 05-05-64706), the principal participant

- *Landscape dynamics during Holocene and Middle Valdai mega-interstadial in the south part of the Valdai upland*, 2005-2007, (RFBR grant № 05-05-64479), the principal participant
- *Research of evaporation structure for boreal forest ecosystem*, 2005-2007, (RFBR Grant № 05-04-49303), the principal participant
- *Development of the Econet for Long-term Conservation of Protected Areas*, 2004, (WWF Grant M3972/9E071501/GLP), the principal participant
- *Yakutia Programme*, 2003, (WWF Grant#M3721/RU008401/GLP), the principal participant
- *Biodiversity Conservation in the Ural*, 2001, (WWF Grant O44/RU007901/GLP), the leader
- *Terrestrial Carbon Observation System Siberia*, 2002-2004, (Funded by the European Commission DG Research 5<sup>th</sup> Framework Programme №EVK2-CT-2001-00131), the principal participant
- *The nonlinear relations inducing territorial structure of a landscape and its components in multiple-factor geographical space*, 2001-2003, (RFBR Grant № 01-05-06012), the principal participant
- *Flows of energy, water vapor and CO<sub>2</sub> between marsh ecosystem and atmosphere*, 2001-2003, (RFBR Grant № 01-04-49171), the principal participant

#### **PUBLICATIONS IN ENGLISH** (in peer-reviewed international journals)

H factor is 3 (according to Scopus)

1. Kurbatova J., Tatarinov F., Molchanov A., Varlagin A., Avilov V., Kozlov D., Ivanov D., Valentini R. Partitioning of ecosystem respiration in a paludified shallow-peat spruce forest in the southern taiga of European Russia / **Environmental Research Letters**, 2013, V.8, № 4, c. 1-9 DOI: 10.1088/1748-9326/8/4/045028
2. Sorokina N.P., Kozlov D.N., Kuznetsova I.V. Assessment of the Postagrogenic Transformation of Soddy Soils: Cartographic and Analytic Support / **Eurasian Soil Science**, 2013, V.46, № 10, c. 1193-1205
3. Bronnikova M.A., Turova I.V., Kuznetsova E.P., Kozlov D.N. and Khokhlova O.S. Soils of cryogenic subarid steppe landscapes in the Terekhol intermontane depression of the Sangilen Upland / **Eurasian Soil Science**, 2011, Vol. 44, № 6, pp. 589-603. DOI: 10.1134/S1064229311060032
4. Konyushkova M.V., Kozlov D.N. Automated analysis of the geographic distribution of chernozem-like dark-colored soils in the Northern Caspian lowland on the basis of space-borne imagery (the case study at the Dzhanybek research station) / **Arid Ecosystems**, 2011, Vol. 1, Issue 2, pp. 65-73. Doi 10.1134/S2079096111020041
5. Šantrůčková, H., Kaštovská, E., Kozlov, D., Kurbatova, J., Livečková, M., Shibistova, O., Tatarinov, F. & Lloyd, J. Vertical and horizontal variation of carbon pools and fluxes in soil profile of wet southern taiga in European Russia / **Boreal Environment Research**, 2010, 15: 357–369.
6. Kozlov D.N., Konyushkova M.V. State of the art and prospects of digital soil mapping: The results of the third global workshop (Logan, USA, 2008) / **Eurasian Soil Science**, 2009, Vol. 42, № 6, pp. 699-702.
7. Sorokina N.P., Kozlov D.N. Experience in digital mapping of soil cover patterns / **Eurasian Soil Science**, 2009, Vol. 42, № 2, pp. 182-193.
8. Yu.G. Puzachenko, D.N. Kozlov, A.G.Sankovski, E.V. Siunova Assessment of the reserves of organic matter in the world's soil: methodology and results / **Eurasian Soil Science**, 2006, Vol. 39, No. 12, pp, 1284-1296.
9. N.N. Vygodskaya, E.-D. Schulze, N.M. Tchebakova, L.O. Karpachevskii, D.N. Kozlov, K.N. Sidorov, M.I. Panfyorov, M.A. Abrazko, E.S. Shaposhnikov, O.N. Solnzeva, T.Y. Minaeva, A.S. Jeltuchin, C. Wirth and A.V. Pugachevskii Climatic control of stand thinning in unmanaged spruce forests of the southern taiga in European Russia. **Tellus** **54B**, 2002. p. 443-461.

## **PUBLICATIONS IN RUSSIAN** (in peer-reviewed journals and monographs)

In total 23 publications.

## **REPORTS AND CONFERENCE PROCEEDINGS**

- Kozlov D.N., Sorokina N.P. "The precision monitoring of agrogenic transformation of soils and soil cover in the area of typical chernozems", ICRAF PEDOMETRICS 2013, Nairobi, Kenya, 26-31 August 2013;
- Kozlov D.N., Sorokina N.P. "Large-scale digital agroecological soil maps" / The VI-Congress of the Dokuchaev Society of Soil Scientists, Petrozavodsk, Russia, 13-18 August 2012;
- Kozlov D., Kuznetsova E. "Lake level dynamics of the Terekhol Lake (Upper Yenisei River Basin, Russia): reconstructions by the dendrochronological and remote sensing methods" / European Geosciences Union General Assembly (EGU2012), Vienna, Austria, 13-18 April 2012;
- Kozlov D. "Digital mapping of natural and natural-anthropogenic geosystems and their components" / the XVII Conference of Young Geographers of Siberia and the Far East "Nature and Society: A View from the Past to the Future" with the elements of the scientific school, Irkutsk – Arshan, Russia, 11-16 April 2011;
- Kozlov D.N., Sorokina N.P., Khitrov N.B. "Large scale digital mapping of soil cover pattern" / 3rd Global Workshop on Digital Soil Mapping (DSM 2008 USA): "Digital Soil Mapping: Bridging Research, Production, and Environmental Application", Logan, Utah, USA, 30 September – 03 October 2008.
- Kozlov D. "Dendrochronology for paleogeography and geoarchaeology" / International Field Workshop 'Fortress Por-Bajin: Geoarchaeology and Protection of Cultural Heritage', Por-Bajin, Tuva, Russia, 28 July – 02 August 2008.