

# CURRICULUM VITAE

May 2018

Natalia Novoselova

## ***Personal information***

**Birth date:** 25.03.1980

**Family status:** married, two children (2002 and 2005)

**Nationality:** Russia

**Residence:** Campinas, SP, Brazil

## ***Contact Info***

**E-mail:** [natalieenov@gmail.com](mailto:natalieenov@gmail.com)

**Skype:** natalianov7

**Web-page:** <http://greenfox.anynotes.com>

## ***Research Interests***

- Application of remote sensing and GIS technologies for various environmental and ecological research issues;
- Restoration and conservation of terrestrial and coastal tropical ecosystems;
- Elaboration of ecological corridors and ecological networks;
- Development of professional communities in conservation and geotechnical spheres;
- Protection of endangered species.

## ***Skills, abilities and experience***

### **Geographic Information System (GIS) and remote sensing technologies:**

I am advanced user of ArcGIS for Desktop, ArcGIS Online, ArcView, ENVI, GPS Garmin. I know and can work in QGIS, GRASS and other open-source GIS and Web-GIS softwares; ERDAS Imagine.

I was a principal developer of the projects basing on application of GIS and remote sensing technologies. I have experience in processing and analysis of satellite images (Landsat, ASTER, MODIS); GIS data analysis; maps digitizing and maps preparation for publication; animal census by dint of combined application of GPS and GIS; creation of tabular database and georeferenced database of species habitats; Web-GIS construction and management.

### **Web technology:**

I have experience in construction and administration of web pages (HTML), Internet forums (phpBB), wiki (MediaWiki), digital online library (Calibre and Calibre2opds platforms).

### **Graphics and presentation:**

Microsoft PowerPoint, Microsoft video maker, Adobe Photoshop, SigmaPlot.

### **Languages:**

English, Portuguese – fluent speaker and writer.

Russian – native language.

### **Personal characteristics:**

- I have good creativity and coordination skills. I have experience in developing and coordination of nature conservation and research projects. I am a responsible team-player, fast learner for new computer skills and other technologies.
- I have experience of field researches and training works in the taiga and tropical forests, marshes, mountains, freshwater and marine coastal environments. I am used to living and working in the different types of climate and surrounds.
- I do not have restrictions on travel and residence in other regions of Brazil and other countries.

## **Education**

### **2016 (August) – Presently**

Doctoral Course in Ecology

Institute of Biology of the State University of Campinas (UNICAMP), Brazil.

The theme of the research project: “Change of Health and Level of Protection of the Atlantic Rainforests Biome in Brazil from 2002 to 2018. Reveal the Most Valuable Woodlands and Mapping the High Conservation Value Forests”.

Supervisor: Prof. Dr. Wesley Rodrigues Silva, chief of the LIVEP laboratory (Laboratório de Interações Vertebrados-Plantas), Institute of Biology, UNICAMP, Brazil.

Co-Supervisor: Prof. Dr. Milton Cezar Ribeiro, chief of the Spatial Ecology and Conservation Laboratory (LEEC), Institute of Biosciences, UNESP, Brazil.

### **2013 (March) – 2016 (July)**

Master of Science Course in Ecology

Institute of Biology of the State University of Campinas (UNICAMP), Brazil.

The title of the dissertation: “Analysis of the effect of meteorological, superficial and anthropogenic conditions on the soaring activity of the Black vulture (*Coragyps atratus*, Cathartidae) by means of GIS and remote sensing and its implication for the reduction of bird strike risks”.

The defense of the dissertation was in July 2016.

Supervisor: Prof. Dr. Wesley Rodrigues Silva, chief of the LIVEP laboratory (Laboratório de Interações Vertebrados-Plantas), Institute of Biology, UNICAMP, Brazil.

### **1998 – 2004**

Graduation in Geography, specialization in Biogeography.

Geography Faculty of the Lomonosov Moscow State University (MGU).

The average grade is 4.6 (5 – the maximum).

Thesis title: “The features of distribution and environment-forming activity of beavers (*Castor fiber*) in the southern taiga of North-East part of the Russian Plain”.

Supervisor: Prof. Dr. Leonid Mironovich Baskin, - the chief of the Laboratory for behavior and behavior ecology of mammals, Severtsov Institute of Ecology and Evolution of the Russian Academy of Science.

## **Employment**

### **February 2007 – May 2010**

Coordinator of the conservation program and the public campaign in the NGO Biodiversity Conservation Center (non-governmental organization working for various conservation problems in Northern Eurasia, web-site: <http://www.biodiversity.ru/eng>), Moscow, Russia.

I coordinated the Program dedicated to protection of threatened species (Russian desman, Saiga, Siberian musk deer and Caspian seal) and the Public campaign fighting against the use of illegal methods (fishing-line nets and electric rods) for fishing. My principal responsibilities were the following:

- Development of website pages devoted to issues of program and public campaign.
- Elaboration of georeferenced and tabular database of territories inhabited by Russian desman.

- Creation and distribution of educational material and social advertising over the country.
- Collaboration with partners and volunteers of the program and public campaign.
- Participation in the environmental protection workshops and conferences (presentation of the program and campaign results to green community, preparation of conference's resolutions and recommendations to government).
- Participation in the field expeditions for Russian desman census and training of volunteers.

### **September 2003 – January 2007**

Zoologist researcher in the Severtsov Institute of Ecology and Evolution of the Russian Academy of Science, Laboratory for behavior and behavior ecology of mammals.

I worked in the research projects of the laboratory. My responsibilities were the following:

- Field data gathering, implementation of GIS data analysis, preparation of the tabular and georeferenced database of studied species habitats, preparation of the resulting maps for publication, writing of resultant papers.

### **November 2004 - October 2008**

Popular-science writer in the online encyclopedia "Krugosvet", "Kolos" Press and "GEO Magazine" publishers.

I wrote the popular-science articles on the subjects of botany, zoology, climate, physical geography and environmental problems.

## ***Environmental and research projects***

My professional experience can be subdivided into scientific and environmental projects (but several projects had both research and conservation goals). Some projects I implemented as a staff employee (in the NGO Biodiversity Conservation Center and in the Severtsov Institute of Ecology and Evolution). Others ones were realized during studentships (in the Lomonosov Moscow State University and the State University of Campinas) and as a volunteer in collaboration with various organizations and people. In most of the projects I conducted the geotechnical and research tasks and was a principal GIS developer.

Below the projects are listed where I participated. The specifics of those projects, resulting papers, GIS and Web-GIS maps and other materials you can find on my homepage:

- scientific projects described here: <http://greenfox.anynotes.com/projects.htm>;
- environmental projects considered here: <http://greenfox.anynotes.com/protection.htm>

### **March 2013 – October 2015**

Investigator and GIS developer of the Master of Science research project: "The analysis of influence of meteorological, superficial and anthropogenic factors on the soaring activity of the Black vulture (*Coragyps atratus*, Cathartidae) and its relation to bird strike risks by means of GIS and remote sensing technologies". Institute of Biology, UNICAMP (Campinas and Presidente Prudente, SP, Brazil).

### **August – November 2015**

Coordinator of the SCGIS e-conference, which was implemented in the frames of the Second practical conference of SCGIS in Russia "Application of GIS and remote Sensing for Nature Conservation", conducted by Greenpeace of Russia and Society for Conservation Geographic Information Systems (SCGIS) at 25-27 September 2015 in Moscow (volunteer work via Internet).

### **October 2015 – present time**

Administrator of the "Wetland Mammals of Eurasia" chapter of the Web-GIS "Faunistics" and GIS developer in the "Save Russian Desman" project (volunteer work via Internet).

### **November 2013 - April 2014**

GIS and Web-GIS developer of the project of the Mata Santa Genebra of Jose Pedro Oliveira Foundation (ARIE Mata de Santa Genebra - Fundação José Pedro de Oliveira), dedicated to elaboration of ecological corridors in the Campinas municipality (Campinas, SP, Brazil).

### **May 2010 - July 2010**

Investigator and GIS developer of part of the project “The identification of potential Areas for Special Conservation Interest for the Emerald Network of the Bern Convention”, devoted to mapping in GIS of the territories inhabited by Russian desman (*Desmana moschata*). The project was implemented in the frames of the Joint Program between Council of Europe and European Union: “Emerald Network-ENP Support for the implementation of the Convention on Biological Diversity (CBD)’s Programme of Work on Protected Areas in the EU Neighbourhood Policy East Area and Russia” (Moscow, Russia).

### **February 2007– April 2010**

Coordinator of the program devoted to threatened species protection (Russian desman, Saiga, Siberian musk deer and Caspian seal) and the public campaign fighting against the illegal use of fishing-line nets and electric rods in Russia. The program and public campaign were implemented by the financial support of the MacArthur Foundation (NGO Biodiversity Conservation Center, Moscow, Russia).

### **January 2006 – December 2006**

Investigator and GIS developer of the research project “The present-day south boundary of the brown bear (*Ursus arctos*) range in European part of Russia and factors determining the brown bear’s survival and distribution”, developed by the University of Wisconsin-Madison (USA), Severtsov Institute of Ecology and Evolution and Institute of Geography of the Russian Academy of Science (Moscow, Russia).

### **January 2002 – December 2004**

Investigator and GIS developer of the INTAS international project “Landscape-creative beaver activity in Northern Europe: a review of the 50-years species-restoration”, grant of INTAS Ref. №01-0168. I worked in the frames of this project in the research group of the Severtsov Institute of Ecology and Evolution. Our study was devoted to exploration of some features of settlement, behaviour, feed and influence on landscape of European beaver in the south taiga of the East European Plain (Kostroma Region, Russia).

## ***Short-term volunteer projects***

### **July 2010 – August 2010**

Volunteer observer in the research and conservation project studying the brown bear (*Ursus arctos*) fishing behaviour. The project was implemented in the Vostochny Reserve (Sakhalin Island, the Sea of Okhotsk, Russia) by NGO Sakhalin Environment Watch and the Pacific Institute of Geography of the Russian Academy of Science.

### **August 2009; October 2010**

Participant organizer of the field traineeships for volunteer’s group devoted to exploration of number and density of Russian desman populations and training the technique of desman’s census in a wild nature (Okskiy Biosphere Nature Reserve and a flood plain of river Moksha, Ryazan Region, Russia).

### **September 2009**

Volunteer of the short-term field project dedicated to restoration of drained swamp ecosystem (Meshera National park, Vladimir Region, Russia).

### **March 2008 - April 2008**

Volunteer of the field camp, coordinated by WWF-Russia, dedicated to treatment the birds injured in the mineral oil spill and monitoring of the consequences of the catastrophe on the sea coastline (Taman Peninsula, the Kerch Strait zone, Russia).

### **July 2001 – May 2002**

Investigator of the coursework research project devoted to exploration of habitat distribution and some features of ecology of the rocky lacertian (*Lacerta saxicola darevskii*) population in the Northwestern Caucasus Mountains (Abrau Peninsula, Krasnodar Territory, Russia). Supervisors of the project were Dr. Alexey Tselarius (Severtsov Institute of Ecology and Evolution RAS) and Prof. Dr. Olga Leontyeva (Faculty of Geography, Lomonosov Moscow State University).

### **June 2001**

Participant of the student research expedition devoted to exploration of aurochs (*Bos bonasus*) young population reintroduced into the “Orlovskoe Polesye” National Park (Orel Region, Russia). Supervisor of the project was Leonid Baskin (Severtsov Institute of Ecology and Evolution RAS)

### **1999, 2000, 2001 (all years in January)**

Volunteer in research student winter expeditions dedicated to census of the large mammals in the nature reserves and national parks of Russia (Meshera National park, Les-na-Vorskla Nature Reserve, Orlovskoe Polesye National Park). Coordinators of the expeditions: Prof. Dr. Olga Leontyeva (Faculty of Geography, Lomonosov Moscow State University); Prof. Dr. Boris Vasilyev (Faculty of Biology, Lomonosov Moscow State University).

### ***Training field courses, special courses***

#### **April 2014, October 2014**

Theoretical and field courses in mathematical statistics with R software application for the issues of Ecology Science ("Teoria e Desenho de Pesquisa em Ecologia", "Estudos Quantitativos de Populações", "Ecologia de Campo"). The courses were conducted in the Institute of Biology of UNICAMP (Campinas, SP, Brazil) and on the scientific stations of UNICAMP in the Atlantic tropical forest and ocean coast biomes: Japi (Brazil, SP) e Picinguaba (Brazil, RJ). The coordinator of the courses – Prof. Dr. Gustavo Quevedo Romero, Institute of Biology, UNICAMP.

#### **March 2014**

Theoretical and field course studying the ecology and seed dispersal in tropical ecosystems ("Ecologia da Dispersão de Sementes"). The course was conducted in the Atlantic tropical forest reserve RPPN Alto-Montana (Brazil, MG), in the Institute of Biology, UNICAMP (Campinas, SP, Brazil) and in the Institute of Biosciences, UNESP (Rio Claro, SP, Brazil). The coordinator of the course – Prof. Dr. Wesley Rodrigues Silva, Institute of Biology, UNICAMP.

#### **March 2013 - July 2013**

Theoretical and practical course studying the application of remote sensing and GIS technologies for study of natural resources ("Geotecnologias Aplicadas ao Estudo de Recursos Naturais"). The course was implemented in the Institute of Geosciences, UNICAMP (Campinas, SP, Brazil). The coordinator of the course - Prof. Dr. Carlos Roberto de Souza Filho (Institute of Geosciences, UNICAMP).

#### **August 2000**

Summer complex field training courses studying the marine and coastal biodiversity, marine invertebrate zoology and marine botany. The courses were conducted by the professors of the Faculty of Biology (Lomonosov Moscow State University) on the basis of the White Sea Biological Station of Lomonosov Moscow State University (WSBS MSU), Karelia, Russia.

#### **May 2000 – July 2000**

Summer complex field training courses in geobotany and zoogeography. The courses were conducted on the basis of the scientific stations of the Lomonosov Moscow State University in European Russia (Moscow and Arkhangelsk regions) and Northwestern Caucasus Mountains (Abrau peninsula of Krasnodar Territory). The courses were conducted by the professors of the Biogeography Department of the Faculty of Geography of the Lomonosov Moscow State University.

#### **June 1999 – July 1999**

Summer complex field training courses studying the topography, geodesy, geology, geomorphology, soil science, geobotany, hydrology, meteorology and landscape science. The courses were conducted on the basis of scientific and training station "Satino" of the Faculty of Geography of Lomonosov Moscow State University (Kaluga Region, Russia) by the professors of this faculty.

### ***Scholarships, grants***

#### **2016 (August) – Presently**

CAPES scholarship (the federal scholarship of Brazil for support and evaluation of graduate education).

I receive the scholarship CAPES as a monthly fee during my education on the Doctoral Course in Ecology in the Institute of Biology of the State University of Campinas, Brazil.

## **2012 (March) – 2014 (March)**

CAPES scholarship (the federal scholarship of Brazil for support and evaluation of graduate education).

I received the scholarship CAPES as a monthly fee during my education on the Master of Science Course in Ecology in the Institute of Biology of the State University of Campinas, Brazil.

## **February 2007– April 2010**

Grant of John D. and Catherine T. MacArthur Foundation.

I obtained the MacArthur grant as a monthly fee during coordination of the program and public campaign in the NGO Biodiversity Conservation Center, Russia.

## **January 2002 – December 2004**

Grant of INTAS (The International Association for the Promotion of Co-operation with Scientists from the New Independent States of the Former Soviet Union)

I obtained the INTAS grant as a monthly fee during my work in the INTAS international project “Landscape-creative beaver activity in Northern Europe: a review of the 50-years species-restoration” within the research group of Severtsov Institute of Ecology and Evolution, Russia.

## **Awards**

- I was awarded by the Laureate Diploma of the XII Russian journalist competition “Ecology of Russia: The XXI century water resources” which was conducted in 2008 by the Civil Chamber of Russian Federation and Media Union (the independent organization joining all sectors of the mass media throughout Russia). The diploma was given for my elaboration of the information package intended for teachers “Materials for lessons about Russian desman”, located with free access on the web-site of the NGO Biodiversity Conservation Center.
- The project “Save Russian desman” which I coordinated in the NGO Biodiversity Conservation Center, dedicating to the rising ecological awareness about Russian desman survival was nominated among the five most interesting projects in the year 2008. The nomination was given by the All-Russian competition “We are responsible for our planet”, implemented by the “National Geographic Russia” magazine. This nomination was awarded for my developing of the information package for teachers “Materials for lessons about Russian desman” and my conduction of the all-Russian competition “The lesson about Russian desman”.

## **Publications**

The full texts and resumes of my publications you can find on my homepage:

<http://greenfox.anynotes.com/publications.htm>

### **Papers submitted in peer-reviewed journals**

- Natalia S. Novoselova, Alexey A. Novoselov, Arthur Macarrão, Guilherme Gallo-Ortiz, Wesley Rodrigues Silva. GIS and remote sensing investigation of the soaring behavior of the Black vulture (*Coragyps atratus*, Cathartidae) in the southeast Brazil and its implication for the reduction of bird strike risk. Part I. Dependence on meteorological conditions. Submitted in Biological Conservation Journal (March 2017).
- Natalia S. Novoselova, Alexey A. Novoselov, Arthur Macarrão, Guilherme Gallo-Ortiz, Wesley Rodrigues Silva. GIS and remote sensing investigation of the soaring behavior of the Black vulture (*Coragyps atratus*, Cathartidae) in the southeast Brazil and its implication for the reduction of bird strike risk. Part II. Dependence on superficial characteristics. Submitted in Biological Conservation Journal (March 2017).

### **Papers published in peer-reviewed journals**

- Baskin L.M, Novoselova N.S., 2008. A fear of predators as a factor determining the length of beaver's (*Castor Fiber*) feeding routes // Russian Journal of Zoology, T. 87, №2, Moscow, “Nauka” Press, pp. 226 – 230.
- Vaisfeld M. A., Baskin L. M., Gubar Yu. P., Radeloff V., Sitnikova E. F., Novoselova N.S., 2008. Dynamics of the southern borders of brown bears range in European Russia // Reports of Russian Academy of Science, series Geographical, V.3, №3, Moscow, “Nauka” Press, pp. 81 - 91.



## Other papers

- Natalia S. Novoselova, 2016. The Web-GIS “Faunistics” is a means of collective gathering and application of data about rare species locations: The section of “Wetland Mammals of Eurasia”.//Proceedings of the 6th International Scientific Conference “Geographic basis of the Ecological Network establishment in Northern Eurasia” (Tver, 8-10 November 2016). Moscow, RAS Institute of Geography, pp. 59-64. (ISBN 978-5-89658-053-9).
- Novoselova N. S., Khakhin G. V., Sobolev N. A., 2011. The GIS project “Areal and population size of Russian Desman” as an essential base for developing Ecological Network for Russian Desman's protection and conservation//The Proceedings of the electronic conference “Geographic basis for the development of the ecological networks in Russia and Eastern Europe” (1-28 February 2011), Part I. Moscow: KMK Scientific Press, 308 pp.
- Novoselova N.S., 2009. The topical school lessons on Russian desman conservation //The materials of the XV International Conference “Education for Sustainable Development”, Moscow, “Otkritiy mir” Press, pp. 294 - 296.
- Novoselova N. S., Zaripova N. R., 2007. The reasons of drastic decrease of the Russian desman's numbers and the methods of desman's restoration //The materials of the practical science international Conference “Nature reserve fund – a priceless heritage of the Ryazan Region”, Ryazan, May 21–23, S. A. Esenin University of Ryazan Press, pp. 103 - 107.
- Novoselova N.S., Vaisfeld M.A., Baskin L.M., Gubar Yu. P., 2006. Forest fragmentation as a limiting factor in brown bear survival and distribution in European Russia //The materials of IV International Symposium “Dynamics of Games Animals Populations in Northern Europe”, Russia, Petrozavodsk, pp. 127 - 133.
- Novoselova N.S., 2005. Some characteristics of beaver's (Castor fiber) areal and ecology in the South taiga forest of Kostroma region //The materials of the Conference “Biotechnology, ecology and nature protection”, dedicated to the two centenary celebration of the Moscow Society of Nature Investigators, Moscow, “Grafikon-print” Press, pp. 197 - 209.

## Chapters in reviewed books

- Baskin L.M., Novoselova N.S., Barisheva S.L., 2011. Chapter 15. Landscape level habitat selection by beavers and the longlasting effects of beaver settlements // Restoring the European Beaver. 50 Years of Experience, Sjoberg, G. and J. Ball (eds.), Sofia-Moscow, “Pensoft Publishers” Press, pp. 195-204.

## Theses and dissertation (graduate, post-graduate)

- Novoselova N.S., 2016. Analysis of the effect of meteorological, superficial and anthropogenic conditions on the soaring activity of the Black vulture (*Coragyps atratus*, Cathartidae) by means of GIS and remote sensing and its implication for the reduction of bird strike risks// Dissertation submitted for the Institute of Biology of the State University of Campinas (UNICAMP) to obtain the Degree of Master in Ecology.
- Novoselova N.S., 2004. The features of distribution and environment-forming activity of beavers (*Castor fiber*) in the southern taiga of North-East part of the Russian Plain// Thesis submitted for the Geography Faculty of the Lomonosov Moscow State University to obtain the Degree of Specialist in Geography with specialization in Biogeography.

## Presentations, proposals

- Krepsky C., Novoselova N.S., Oliveira Aprígio P., 2014. Proposta de Inclusão de Corredores Ecológicos do Município de Campinas no Plano de Expansão de Áreas Protegidas no Estado de São Paulo (Proposal of inclusion the ecological corridors in the Plan of Expansion of Protected Areas in the Campinas municipality). The proposal was sent to the Secretary of Environment of the State of São Paulo at March 2014.
- Novoselova N.S. The preliminary results of the project “The identification of potential Areas for Special Conservation Interest (territories inhabited by Russian desman) for the Emerald Network of the Bern Convention”//The oral report in the Workshop of Council of Europe and European Commission devoted to the intermediate results of task groups from Belarus, Moldova, Russia and Ukraine in realization the Joint Programme between Council of Europe and European Union: “Emerald Network-ENP Support for the implementation of the Convention on Biological Diversity (CBD)'s Programme of Work on Protected Areas in the EU Neighbourhood Policy East Area and Russia”, June 14-16 of 2010, Sebez National Park, Pskov Region, Russia.
- Novoselova N. S. The “Save the Russian desman” project of Biodiversity Conservation Center - a short resume of history of the project and its main results of ten years // A series of lectures about Russian desman and opportunities to participate in field expeditions for exploration the number and density of desman

populations in European Russia. The lectures were conducted in Biology and Geography Faculties of Lomonosov Moscow State University, Faculty of Biology of Moscow State Pedagogical University, Timiryazev Russian State Agrarian University and Skryabin Moscow Veterinary Academy during December 2009 - October 2010.

- Novoselova N.S., Elaboration the information package for teachers concerning Russian desman and its protection and carrying out the all-Russian competition "The lesson about Russian Desman" within program of threatened species of the Biodiversity Conservation Center// XV International Conference "Education for Sustainable Development" organized by Green Cross Russia, the International Independent Ecological-Political University and Green Cross International, June 27-28 of 2009, Moscow, Russia.
- Preparation of resolutions (recommendations to government) devoted to protection of Russian desman and Caspian seal and to the struggle with the illegal use of fishing-line nets electric rods on the All-Russian Conference for environmental protection NGOs "Green move of Russia and ecological challenges", March 21-22 of 2009, Dubrovskiy village, Moscow Region, Russia.
- Preparation of the resolution dedicated to promote the Public Campaign of Biodiversity Conservation Center "No – to fishing-line nets and electric rods!" among other Russian Environmental Protection NGOs // All-Russian Conference for the Nature Protection, November 9 of 2007, Moscow, Russia.
- Novoselova N.S., and Zaripova, N.R., The reasons of drastic decrease of the Russian desman's numbers and the methods of desman's restoration// Oral report and preparation of resolution dedicated to the Russian desman protection in Ryazan Region on the practical science international Conference «Nature reserve fund – a priceless heritage of the Ryazan Region», May 21-23 of 2007, Ryazan, Russia.

Novoselova N. S., Forest fragmentation as a limiting factor of brown bear survival and distribution in European Russia // The IV International Symposium "Dynamics of Games Animals Populations in Northern Europe", September 18-22 of 2006, Karelia, Russia.

#### **Popular science publications**

- Novoselova N. S., 2007. The climate of the Earth // Good-informed source (information-analytical popular science journal), No. 1, Moscow, "Kolos" Press. P. 68 – 80.
- Novoselova N. S., The history of the Biosphere of the Earth// Good-informed source (information-analytical scientific-popular journal), No. 2, Moscow: "Kolos" Press (in print)
- Novoselova N. S., 2008. The beavers are the rescuers of our forests//GEO Magazine.
- Novoselova N. S., 2008. Saiga is in danger//GEO Magazine.
- Novoselova N. S. The popular science articles on the website of online encyclopedia "Krugosvet": "The coniferous plants", "The pine trees", "Sequoia", "The algae", "The soils", "The morphology of soils", "The fauna of soils", "The types of soils", "The anthropogenic influence on soils".