



To the Russian Exhibition  
IGU Regional Conference 2010  
«Bridging Diversity in a Globalizing World»

Tel-Aviv, Israel

12-16, July 2010



**Russian National Committee of the IGU  
Russian Geographic Society**

**GEOGRAPHY IN RUSSIA**

**To the Russian Exhibition**

**IGU Regional Conference 2010**

**«Bridging Diversity in a Globalizing World»**

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# I. Russian Academy of Sciences, Earth Science Division

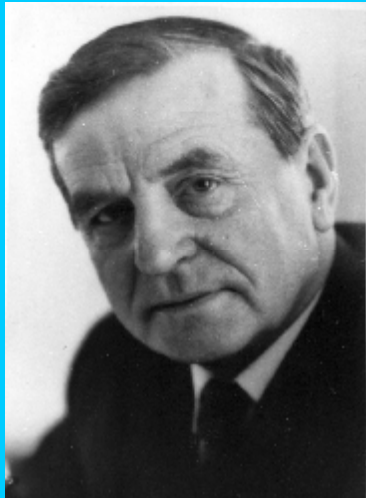
## Geographers - academicians



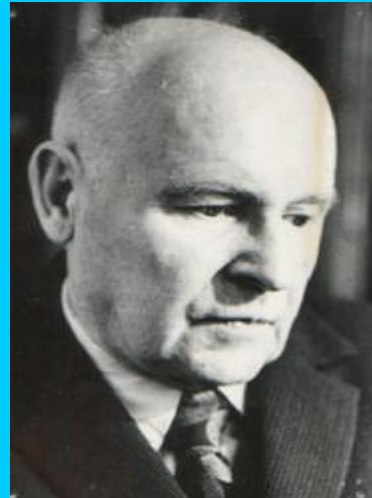
**Georgy A. Avsyuk, 1906-1988**



**Mikhail I. Budyko, 1920- 2001**



**Innokentiy P. Gerasimov, 1905-1985**



**Konstantin K. Markov, 1905-1980**



**Alexey F. Treshnikov, 1914-1991**

**Now academicians of the Russian  
Academy of Sciences -  
geographers are the following:  
Peter Ya. Baklanov,  
Nikolay S. Kasimov,  
Vladimir M. Kotlyakov,  
Michail Ch. Zalikhanov**

## II. Research institutes in geographical area

**Institute of Geography, RAS,**  
Staromonetny pereulok, 29 Moscow –  
92 years of research activity



Staromonetny per of Moscow

*The Institute of Geography RAS – a well known in Russia and abroad center of academic science, a leading research organization in the system of geographical sciences, dealing with complex problems of interaction between nature and society. The institute has 300 employees, including 1 academician of RAS, 2 Corresponding Members of RAS, 49 doctors of science and 166 PhDs. Annually at the Institute of Geography RAS about 15 graduate students*

Website: <http://igras.ru/>

## **The V.B. Sochava Institute of Geography SB RAS**

*is a leading scientific institution in the east of Russia, with its scientific scope focusing on geographical studies.*

*Major research areas: the state and development of natural geosystems and their components; the geographical framework for sustainable development of Siberia's regions.*

*The prime mission of the Institute is to pursue basic research in such fields as:*

- landscape science,*
- development of the geographical framework for territorial organization of production,*
- population formation on the territory, systemic mapping,*
- creation of the theoretical foundations for forecasting, monitoring and controlling the geosystem dynamics.*

*The institute located in region of Baikal Lake basin*



**Baikal Lake, Olkhon Island**

Website: <http://www.irigs.irk.ru/index-en.html>

## **Pacific Institute of Geography, FEB RAS,**

*The main directions of activity:*

*Study of the structure and dynamics of geographic systems in the transition zone (land-ocean) and their modeling.*

*Study of ways to develop and optimize the regional types of natural resources, including marginal-marine-based geo-information technologies, development of regional programs for sustainable environmental management.*

*Study of the dynamics and interactions of natural resource systems and territorial structures of economy and the resettlement, the development of programs for sustainable development of Far Eastern region of Russia with a view of integration processes in the Asia-Pacific region.*



**Ruskiy Island near Vladivostok**

*A number of institutes are also related to various geographical aspects – Institute of Oceanography, RAS, Institute of atmospheric physics RAS, Institute of water and environmental problems, FEB RAS, and SB RAS, etc.*

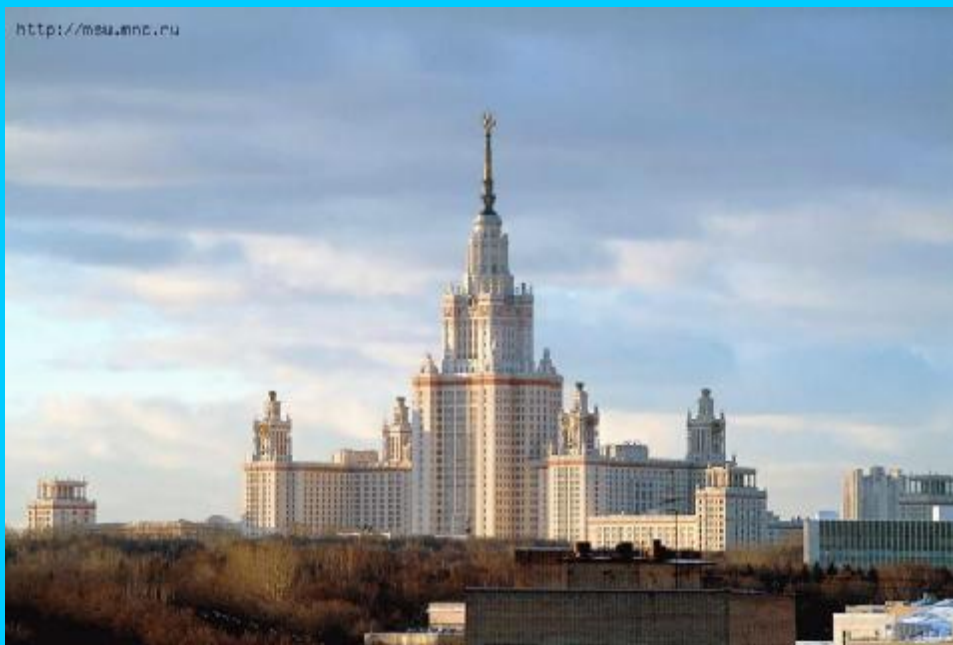
Website: <http://tig.dvo.ru>

# III. Universities.

## Geographical faculties

### **M.V. Lomonosov Moscow State University, Geographical faculty**

*Geography Faculty of MSU - the world largest teaching, research and student staff of geographers. The head of department is Academician, Nikolay S. Kasimov. The department caters more than 1200 students and 200 graduate students, has about 860 employees, including 100 professors and doctors of science, 280 PhDs. Among them 2 academicians and 4 corresponding member of Academy of Sciences, honored scientist of Russia, State Prize winner and the RF Government Prize in Education, Science and Technology, Lomonosov Moscow State University Award for scientific work and teaching activities, etc.*



Website: <http://www.geogr.msu.ru/>

## **Sankt-Petersburg University, Faculty of geography and ecology**

*Faculty is the oldest geographical institution in Russia. Its origin is closely linked with the history of the Russian Academy of Sciences and the first in Russia, St. Petersburg University (1724), the Imperial Russian Geographical Society, and in 1918 with the Geographical Institute, which was the first geographical high education institution in the USSR. In 1925 it was included in the Leningrad State University as a Geography Department. In 1987 it was renamed at the Department of Geography and Geoecology.*

*The Faculty trains specialists with higher geographical, hydrometeorological and environmental education at primary, post- and extra (including pre-university) education programs at the state budget and contract (paid) basis.*



<http://www.geo.pu.ru/>

*There are about 100 geographical faculties, divisions in the educational (pedagogic) institutes and universities throughout Russia.*

## IV. Geography in sectorial field

### **ROSGIROMET**

**(Russian State Committee on HydroMeteorology)**

*Roshydromet is a federal executive authority performing functions of public services in the field of hydro-meteorology and related fields, environmental monitoring, pollution, public oversight of the work on the active influence on the meteorological and other geophysical processes.*

*Roshydromet celebrates 175 anniversary of its activity*



Website: <http://meteorf.ru/default.aspx>

### **ROSCARTOGRAPHIA**

**(Russian State Committee on Cartography and Mapping)**

- \* The observance of legislation of the Russian Federation on Geodesy and Cartography of all participants of the relations in the field of geodetic and cartographic activities*
  - \* The establishment and maintenance of federal cartography and geodesy fund Cartographic Products of the federal importance*
  - \* Participation Roskartographya in federal target programs*
  - \* Participation Roskartographya in national committees*
  - \* Responsibility in the list of normative documents in force in the field of geodesy and cartography*
  - \* Certification geodetic, topographic and cartographic products*
- Etc.*

Website: <http://roskart.gov.ru>

## **Ministry of Nature Resources of Russian Federation**

- 1. The Ministry of Natural Resources of the Russian Federation (MNR of Russia) is a federal executive body performing the functions related to state policy formulation and normative and legal regulation in the sphere of the study, renewal, and conservation of natural resources, including management of the State subsoil stock and forestry; the use and conservation of the inventory of water resources; the use, conservation, and protection of the stock of wooded forests and reproduction; operation and safety of multipurpose reservoirs and water-resources systems, protecting and other hydraulic structures (except navigation hydraulic facilities); the use of wildlife resources and their habitat (except wildlife resources assigned to hunting resources); specially protected natural areas, as well as in the sphere of environmental conservation (except the sphere of ecological supervision).*
- 2. The Ministry of Natural Resources of the Russian Federation exercises coordination and control of the activity of the Federal Nature Management Supervision Service, the Federal Subsoil Use Agency, the Federal Forestry Agency, and the Federal Water Resources Agency being under its authority.*
- 3. The Ministry of Natural Resources of the Russian Federation is guided in its activity by the Constitution of the Russian Federation, federal constitutional laws, federal laws, acts of the President of the Russian Federation and the Government of the Russian Federation, international agreements of the Russian Federation, as well as by the current Regulations.*
- 4. The Ministry of Natural Resources of the Russian Federation carries out its activity in concert with other federal executive bodies, executive bodies of the subjects of the Russian Federation, and institutions of local governing, as well as with public associations and other organizations.*

Website: <http://www.mnr.gov.ru/>  
<http://www.mnr.gov.ru/part/?pid=397>

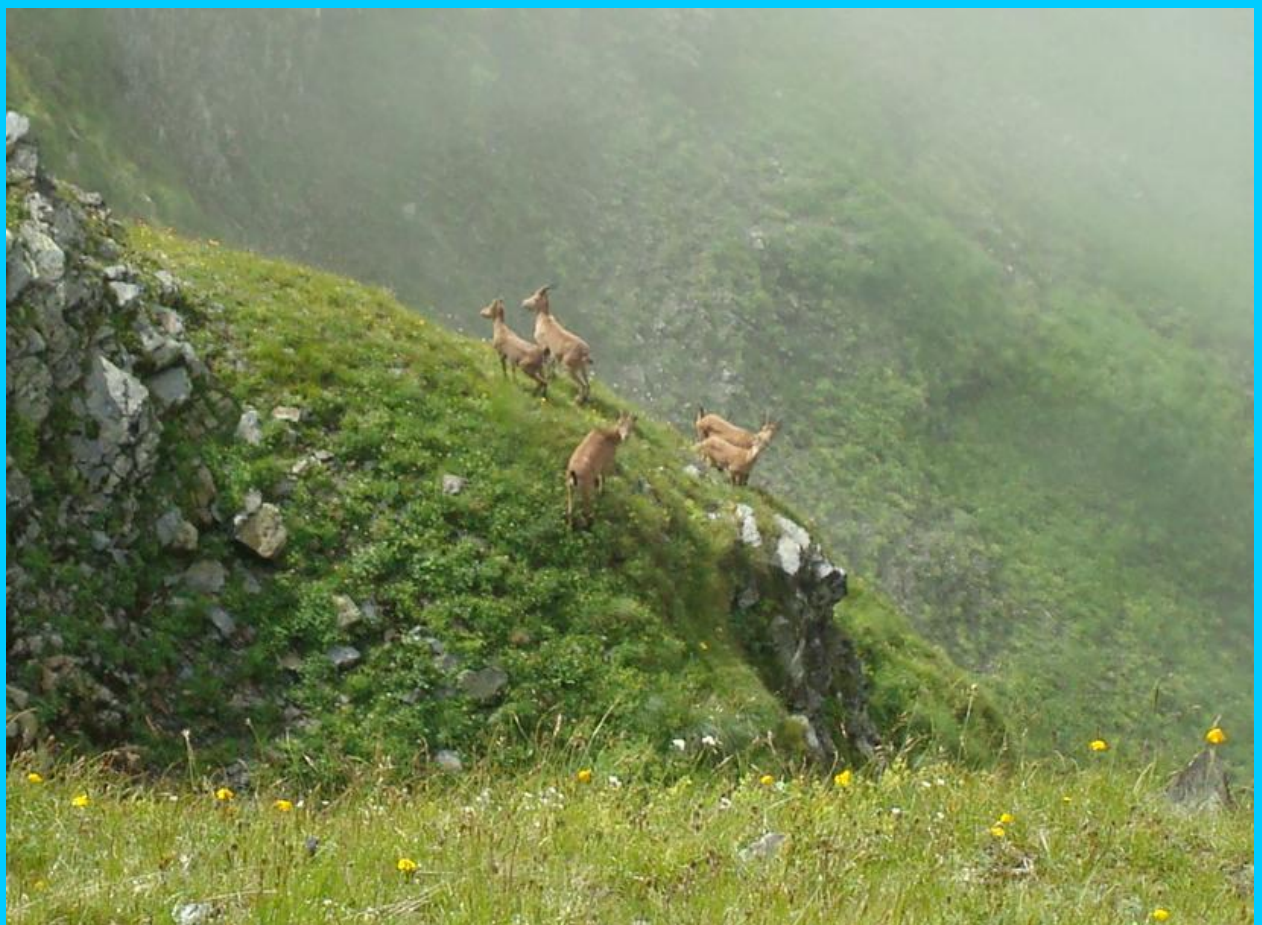
**Preserved territories (Specially protected areas) are under the coordination of MNR,**

**There are also a number of NGOs involved in environment protection related to Preserved territories (Zapovedniks, biosphere reserves, nation parks, etc)**

*The first state preserve (SP) Russia officially considered Barguzinsky, formed in 1917.*

*Reserve - specific to the USSR / Russia form of protected areas, almost unparalleled in the world (not without reason in foreign publications on Russian SP "reserve" are not found be used but direct transcription - "zapovednik"). Only in Russia reserve is not only a guarded area, but also a scientific institution.*

*Russia possesses more than 100 zapovedniks and more than 40 national parks, the biggest zapovedniks by the area are the Komadorskiy (3648679 hectares), Putorana Plateau (1887251 hectares), Kronoskiy (1142134 hectares), Central-Siberian (1021469 hectares), Ust-Lenskiy (1433000 hectares), etc.*



**Wild oxes (*Bos primigenius*) at the slopes of mountains, Caucasus Biosphere Reserve**

Website and map: <http://oopt.info/>

# V. Russian Geographical Society

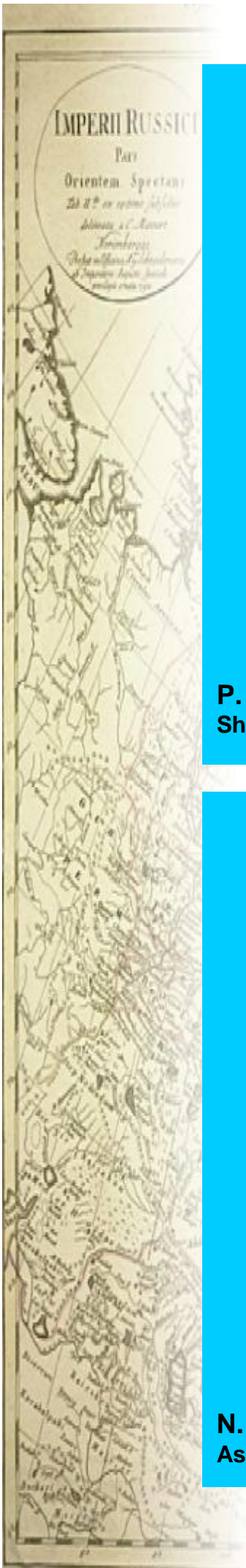


Russian Geographical Society was founded in St. Petersburg on the order of His Majesty the Emperor Nicholas I, who on Aug. 18, 1845 approved the submission to the Minister of Internal Affairs of Russia L.A Perovski.

## Famous Russian geographers – explorers



**F. P. Litke** -Participant of the world expedition of V.M. Golovnin, a leader of the around - world expedition and explorer of the Novaya Zemlya and Barents Sea. One of the founders and leaders of the Russian Geographical Society



**P. P. Semenov- Tian-Shansky, the explorer of Tian – Shan, naturalist and economist**



**N. M. Prjevalsky 1839-1888, an explorer of Central Asia, the general of Russian Army**



**G.E. Grum-Grjmailo, the explorer of Middle Asia, Pamirs, Western Tian-Shan, discovered the Turphanskaya depression**

*The 1917 Revolution and Civil War completely changes the way of life in Russia. However, the work of the RGS was not terminated even in those years. Chairman of the Company becomes Y.M. Shokalsky (from 1917 to 1931).*

*In recent years, (President: Y.P. Seliverstov from 2000 to 2002; A.A. Komaritsin from 2002 to 2009) besides primary role of RGS as coordination of scientific activity also were involved in installation of relation to government structures. One of the main activities of the Geographical Society was always an environment-geographical direction, the study of the impact of global change on the ecological state of the planet and its inhabitants, the population. To address these serious concerns of all humanity problems require government support.*

*On November 2009 Sergey K. Shoigu was elected to be President of the RGS, and Chairman of the Board of Trustees - Vladimir V. Putin and this is the fact that the leadership of our country is not indifferent to these problems, and the Russian Geographical Society has a very serious role in addressing them. The first step in this important matter is the practice of giving grants of the RGS for the research projects related to geography in its broadest sense.*



**S. K. Shoigu, president of the RGS, V.V. Putin and president of RAS, Y. A. Osipov**



**Academician N.S. Kasimov presents a speech**



**S.K. Shoigu, President of RGS V.V. Putin, Honorary President of RGS, V.M. Kotlyakov. RGS – 165 years!**

Website: <http://www.rgo.ru/>, <http://int.rgo.ru/>  
Moscow Branch: <http://rgo.msk.ru/>

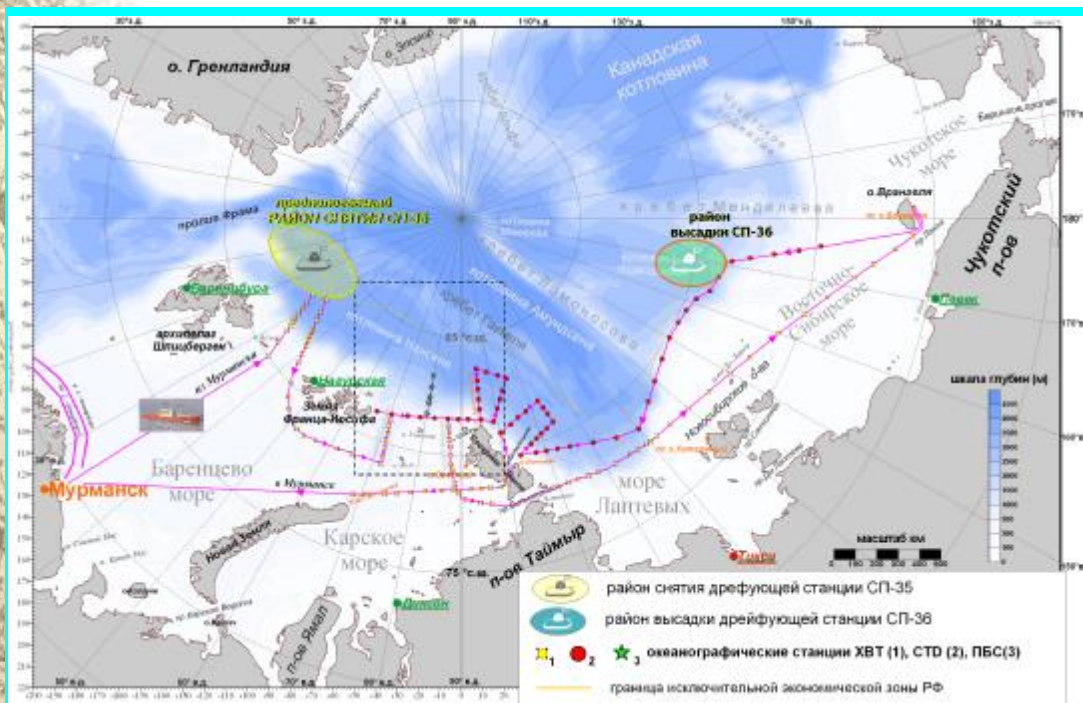
# VI. Achievements of recent years

## 1. Reinstallation of “Severniiy Polus”, SP (Nord Pole) -drifting research stations in Arctic Ocean.

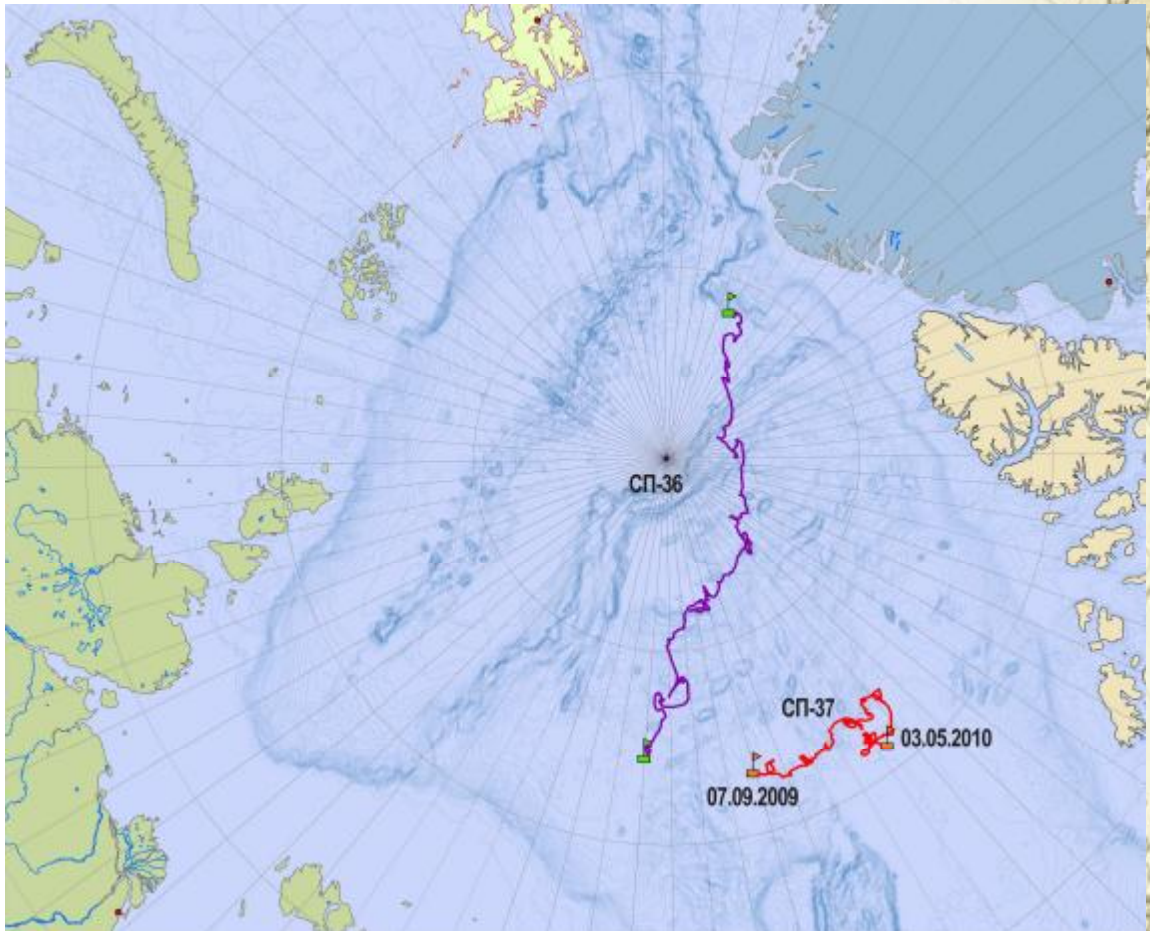
*The purpose of the SPs - to improve the quality of weather forecasts and to examine global processes of climate change. Also the stations aimed at monitoring the environment, performing research in the field of meteorology, oceanography, ice mechanics and aerology*



SP-36, 2008



Research ships routes in Arctic (Source: AARI)



**Routes of Sp-36 and SP-37 drifting stations**

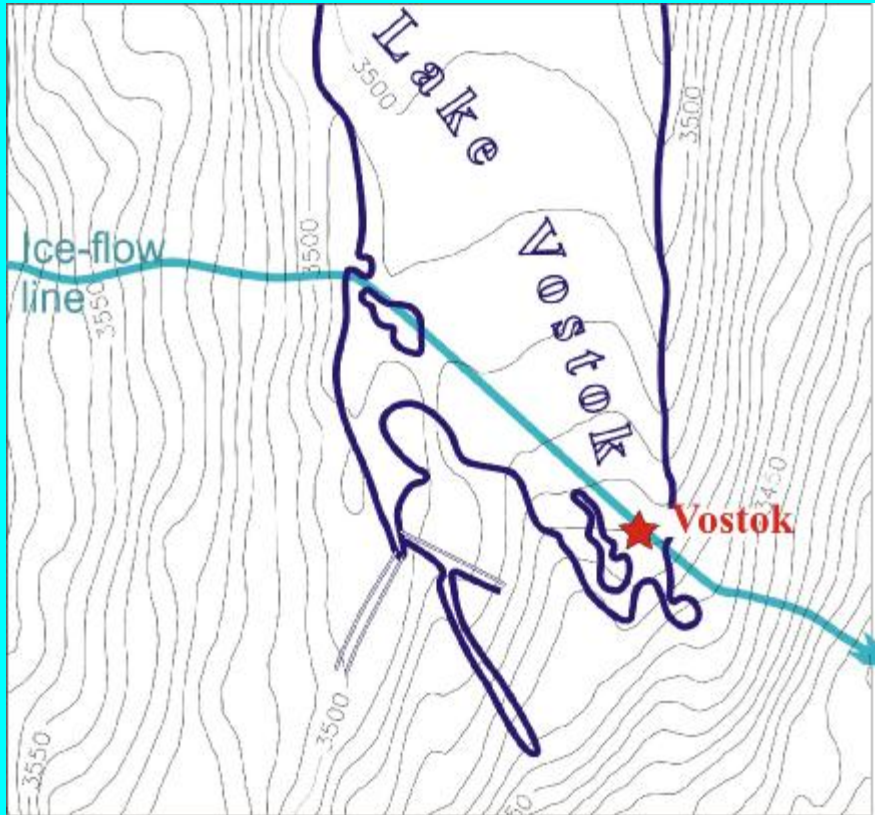


**"Michail Somov" – one of the main research ships in Polar regions**

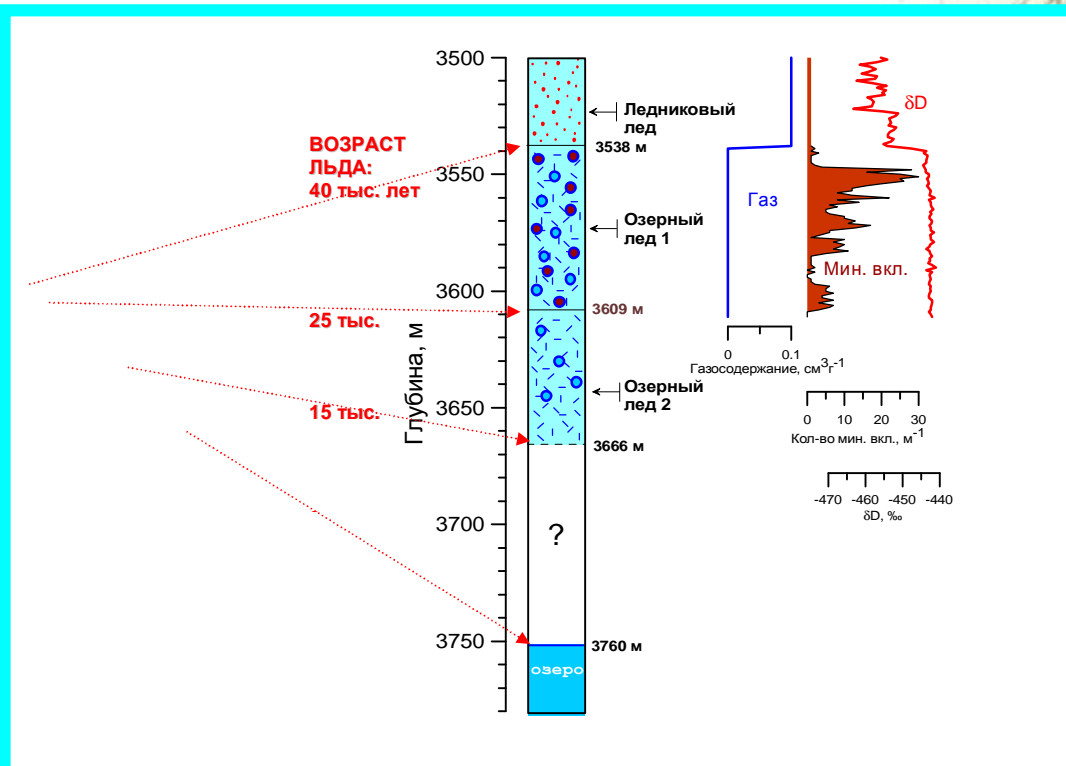
## 2. Boreholing of Vostok Lake in Antarctica



**August 7, 2007: the borehole reached a depth of 3666.54 meters;  
Season 2009-2010 – continuation of drilling**



**Scheme of Lake Vostok**



**Scheme of lake ice fractions in the ice core**  
*Popov & Masolov, 2007; Salamatina et al., in press*

### 3. Drilling of the high plateau on Elbrus (Caucasus)



The ice core from the Elbrus plateau was obtained and the structure of ice has been analyzed in 2009-2010

### 4. National Atlas of Russia



*Volume 1 – General outline of the territory*

*Volume 2 – Nature and environment*

*Volume 3 – Population and economy*

*Volume 4 – History and Culture*

*The Atlas is published in paper and electronic forms*

Website: <http://national-atlas.ru/first.php>

### 5. Atlas of Kuril Islands



*It is the result of researchers and specialists of the RAS and other organizations during many decades. The atlas presents various nowadays information and knowledge about the history of discovery and development of the Kuril Islands, a unique combination of natural conditions, rich resources, population and economy. Kuril Islands is a territory of huge resource and economic potential and strategic importance in the Asia-Pacific region.*

Publishers: "DIC" (Design. Information. Cartography), Institute of Geography, Pacific Institute of Geography FEB RAS, Roskartographia.

*Now in Russia a number of atlases have been published, some of them are presented in the Russian stand (exhibition).*

# VII. The International Polar Year

## **Expedition works within IPY**

*Expedition "ABJAIП/NABOS-2008" SP-36*

*Expedition "ABJAIП/NABOS-2009" SP-37*

Website: [http://ipyrus.aari.ru/expedition\\_work.html](http://ipyrus.aari.ru/expedition_work.html)

## **Main Russian clusters**

*Spitsbergen Climate System Current Status – SCSCS*

*Creation of Atmospheric Observatory of Climate Monitoring in Tixi, Russian Arctic coastal zone*

*Complex study of central part of the Arctic Ocean*

*Complex study of season cycles in Arctic seas*

Website: [http://ipyrus.aari.ru/russian\\_clusters.html](http://ipyrus.aari.ru/russian_clusters.html)

## **Russian Arctic and mountains**

*The Russian National Program and Implementation Plan for the IPY 2007/08 includes three projects relevant to glaciers in the Russian Arctic. The project Current state of glaciers and ice caps in the Eurasian Arctic is a Russian contribution to GLACIODYN.*

*The main goal of the project is to study the area changes, mass balance, hydrothermal state and potential instability of glaciers and ice caps in the Russian Arctic islands and Svalbard.*

*A second project, Formation, dynamics and decay of icebergs in the Western sector of the Russian Arctic, aimed to collect new data on the formation, distribution and properties of icebergs in the Barents and Kara seas and to estimate the current state of outlet glacier fronts in the Russian Arctic archipelagos. The project Climatic factors in the contemporary evolution of North-Eastern Siberiaglaciatiion is another Russian contribution to GLACIODYN. This project continued studies of climate–glacier interactions in the poorly explored North Eastern Siberia region.*

Website: <http://ipyrus.aari.ru/>

## VIII. Periodicals in geographical area

### 1) «Geography. Environment. Sustainability», published in the Moscow State University, Geographical Faculty



*The purpose of the new journal “GEOGRAPHY, ENVIRONMENT, SUSTAINABILITY” published in English is to illuminate related interdisciplinary scientific fields, many new approaches and methods along with a wide range of their practical applications. This goal covers a broad spectrum of scientific research areas and also considers contemporary and widely used research methods, such as geoinformation, cartography, remote sensing (including from space), geophysics, geochemistry, etc. Editors-in-chief - N.S. Kasimov and V.M. Kotlyakov*  
Website: <http://www.geogr.msu.ru/structure/GESJournal/>

### 2) Izvestia RAS Geographic Series



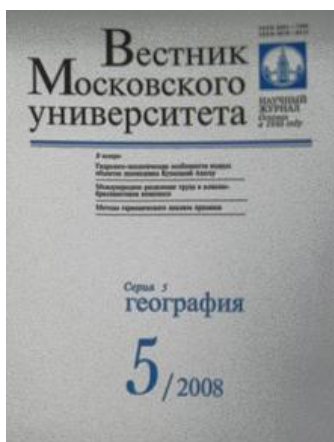
*Editor-in-chief – V.M. Kotlyakov, published in “Nauka” Publ. House*  
Website: <http://izvestia.igras.ru/>

### 3) Scientific journal “Geomorphology”



*Published in IG RAS since 1970*  
*Edotor-in-chef – A.P. Chichagov.*  
Website: <http://geomorphology.igras.ru/indexeng.php>

#### 4) Vestnik of the MSU (News of the Moscow State University) Series 5: Geography and nature resource



*Founded in 1946*

*Editor-in-chief – N.S. Kasimov*

Website: <http://www.geogr.msu.ru/structure/vestnik/>

#### 5) Meteorology and Hydrology



*"Meteorology and Hydrology is the only CIS monthly scientific and technical journal, highlighting the main challenges and achievements of domestic and global hydrometeorological science and applying issues, as well as monitoring the environmental pollution and climate, methods of weather forecasting, water availability, climate change. "Planeta" is Publisher House of the edition. The journal is reprinted in English in the USA. It is distributed by subscription.*

Website: <http://planet.iitp.ru/mig/>

In English it is published by Springer

<http://www.springer.com/?SGWID=0-102-0-0-0>

#### 6) Ice and Snow

*Published by Institute of Geography RAS,*

*Editor-in-chief – V.M. Kotlyakov*

Website: <http://glac.igras.ru/index.php?r=112&id=1461>

*There are quite a lot periodicals in Geography, some of them are listed below:*

*Atmosphere and Ocean, Oceanography, Environmental Planning and Management, Problems of Regional Ecology, Ecology in urban areas, South Russia, Arid Ecosystems, National geographic. Russia, Geography in school, Ggeography and ecology. XXI Century, Geography. Annex to "September 1", etc.*

## IX. School geography

*Textbooks, manuals and magazines to support teachers of geography are prepared in main universities, in institutions of RAS*

### **Geography in School, a journal for geography teachers**



Website:

[http://www.schoolpress.ru/products/magazines/Geography in the Teacher's Day](http://www.schoolpress.ru/products/magazines/Geography%20in%20the%20Teacher's%20Day) -

*The day of a teacher in Geography*

Website: <http://marathon.1september.ru/2010-03-30-1145461>

*Class work with students*

### **60 years of "School YUNG" (Young geographers) at the Geography Faculty of Moscow State University**



*In the first years after the WW2 a series of exciting radio broadcasts of "Club of famous captains" started. Within the program the game "25" was announced. Twenty-five students, before others have scored 25 points, became corresponding members of the club. The children were given different tasks and they were to send their*

*replies to the radio. However, the checking of the works sent were carried out by employees of Geography Faculty of Moscow State University, in particular by Boris Bekleshev. The first was the title of Corresponding Member of Kim Losev, now well-known geographer and ecologist. After the game it was sorry to part with talented students and then B. Bekleshev created a School of JUNG (1948) at the Faculty. It included lectures on basic geographic disciplines, tests and exams, and summer field practice.*

Website: <http://www.youngeo.ru/>

## Geographic Olympiad for scholars



**Participants of Geography Olympiad of Russian scholars in the IGS –conference in Brisbane, Australia. The organizer of the Russian Olympiad scholar team– Dr. Alexey Naumov, the second, right side**

*The latest news about International Geographic Olympiad and participation of Russian scholars are on website:*

[http://www.geogr.msu.ru/news/news\\_detail.php?ID=320](http://www.geogr.msu.ru/news/news_detail.php?ID=320)

## X. Scientific Council on Fundamental Problems of

*Joint Scientific Council on the Fundamental Geographical Problems created under the umbrella of the International Association of Academies of Sciences in 1996. Its founders are the Academy of Sciences of 12 Commonwealth countries: Azerbaijan, Armenia, Belarus, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Russian Federation, Republic Tajikistan, Turkmenistan, Uzbekistan, Ukraine. The purpose of the Council to unite scientists aimed at assisting to solve key scientific problems in the area of fundamental research and geographical education. One of the main activities of the Council is to hold international meetings and scientific symposia on crucial issues of geography. Since 1996 12 major international meetings on various aspects of geographic science were conducted.*



**One of the meetings of the Scientific Council on the Fundamental Geographical Problems**

# XI. Geography in WEB

*Besides websites mentioned above please, visit*

- **rgo.ru** - "RGO.ru" geographical portal of the Earth. - The "Encyclopedia" - a "small geographic Encyclopedia" (physical geography, regional geography, economic geography. "There is a section of teachers.
- **geo.1september.ru** - website "I'm going on a geography lesson" Articles on sections: Geography; geography of continents, oceans, countries. Geography of Russia. Economic and social geography of the world.
- **geo.1september.ru** - Newspaper "Geography"
  - **georus.by.ru** - "Geography of Russia". Data on each subject of the Russian Federation. Federal Districts of Russia. Economic areas. Timezones, etc.
- **geo.historic.ru** - geographical on-line reference "World". Information on all countries of the world. Physical map. Reference data. Timezones.
- **afromberg.narod.ru** - site for geography teachers Programs, electronic lessons (in part), practical work, reference materials, exams, etc.
- **geografia.ru** - Geografiya.ru - club GUIDE. Travel around the world, Geographical Society, the exotic countries of the world, exciting travel, interesting stories, photo albums, etc.
- **nature.worldstreasure.com** - "Wonders of Nature" Illustrated and classified by geographical location materials about natural phenomena. (Photo + text, a good site to just relax and learn interesting facts).
- **basni.narod.ru** "Wanderer" - a guide of the world. A brief description of all the world countries. Information on geography, government structure, population, history and economy of each country. Images of national symbols
- **terrus.ru** "The territorial structure of Russia" - Reference Inventory "All Russia" to economic areas.

# Russian exhibition in the Regional Conference of the IGU in Tel-Aviv, Izrael

Institute of Geography RAS

[WWW.IGRAS.RU](http://WWW.IGRAS.RU)



*Since the foundation in 1918, the Institute of Geography, Russian Academy of Sciences, is the leading scientific institution of the USSR and Russia in the area of geography. Currently, about 320 employees, including one academicians, two member-correspondents of the Russian Academy of Sciences, 50 doctors and 135 candidates of sciences are working in 15 departments and laboratories: physical geography and nature management problems, glaciology, social and economic geography, climatology, geopolitical studies, evolutionary geography, hydrology, geomorphology, cartography, soil geography and evolution, biogeography, geography of world development, experimental studies of geosystems, integrated monitoring of pollutants, GIS investigations.*

*The Institute of Geography is the major institution of the Russian Academy of Sciences in complex studies of interaction between the nature and society at global, regional, and national scales. The Institute has been conducting research by the following scientific areas and problems:*

- The evolutionary analysis of the environment and its components for the forecast of global and regional changes;*
- Social and economic-geographical basis of development of modern society and natural resources management;*
- Monitoring and evaluation of efficiency of natural resource utilization;*
- Development of ecological and geographical foundations of sustainable development at global, regional, and national levels;*

- *The forecast of economic, social and political situation in connection with the environment and society changes.*

*The name of the Institute is associated with the activity of numerous outstanding scientists who has made a notable contribution to the study of nature, the national economy, development of the Arctic Regions, Siberia and the Far East, has taken part in geographic explorations in the Caucasus, in the republics of Central Asia, in Mongolia, China, Vietnam, Cuba, etc*

*For over 20 years the Institute has been headed by Academician V.M.Kotlyakov – leader of world glaciology, a scientist who has witnessed the birth of a number of contemporary areas of geographic research, Chairman of the National Committee of Russian Geographers of, recipient of the State Prize of Russia.*

*By tradition, the Institute staff members are engaged in field research in various regions of Russia, CIS and countries outside the former Soviet Union. Permanent expeditions operate in the central areas and in the north of European Russia, in the mountains and on the plains of Central Asia, Mongolia and China, in Russian Arctic and on the Antarctic Continent.*

*The Institute operates the Moscow Center of the Russian Geographical Society, National Committee of Russian Geographers, the Scientific Council for Arctic and Antarctic Research of RAS, Joint Scientific Council for Fundamental Geographic Problems at the International Association of Academies of Sciences. Every year, Institute publishes around 20 monographs and hundreds of articles in Russian and foreign publications, participates in the execution of state-run scientific programs, draft studies and recommendations for the Government (Ministry for Regional Development, Russia's Ministry of Economic Development, Russia's Ministry of Natural Resources). The following academic journals are published under the aegis of the Institute: "Izvestia of RAS. Geographic Series", "Geomorphology", "Data of Glaciological Studies". The Institute takes part in publishing some socio-scientific journals ("Problems of Regional Ecology", "Ecological Planning and Management").*



## A list of publications for the exhibition in Regional Conference of the IGU, Tel-Aviv, Izrael

### Buklets

- Booklet "Institute of Geography" (in English).
- Booklet to the stand "Geography of Russia and geography in Russia" (in English).
- Booklet of IG RAS for 90-year anniversary (in Russian).

### Periodicals

- Geography. Environment. Sustainability (English);
- Izvestiya. Geographical Series (Engl., Res.)
- Ice and Snow (Engl., Res.)
- Geomorphology (Engl., Res.)
- Environmental Planning and Management (Engl.,Res.)
- Problems of regional ecology (Engl.,Res.)
- Ecology of urbanized areas (Engl.,Res.)
- South of Russia (Engl.,Res.)
- Geography Issues (№ 132 "Modern place-names", Eng. Res.)
- Eurasian Geography and Economy (about Moscow, 2002, and North Caucasus, 2007)

### Atlases and maps

**Atlas of the Kuril Islands. Ch. Ed. NN Komedchikov. PH "DIC", 2008.** (in electronic version)

**Map of zoning the territory of Russia by the degree of extreme ecological and geomorphological situation. 1:9,000,000, 2008;**  
**(a set of maps)**

### Monographs

**Kotlyakov V.M., Komarova A.I. Elsevier's dictionary of geography. In eng., rus., fr., span., germ. Elsevier: Amsterdam-Boston-Heilderberg-London, 2007, 1048 pp.**

The Dictionary contains about 7000 essential terms and more than 1000 main synonymous currently used in diverse branches of modern geography and related sciences in 5 languages. The terms cover 14 fields of geography. English and Russian terms are supplied with succinct definitions.

**Glaciation in North and Central Eurasia in the Recent at present time. Ed. V.M. Kotlyakov. Moscow, "Nauka", 2006**

The book presents results of glaciological research, performed for the last 10-15 years by the Institute of Geography, RAS, such as: interaction between snow cover and atmospheric circulation, studies of frozen rocks, glacier variation including drastic surges, glacier run-off

**Glaciation in North Eurasia in the Recent Past and Immediate Future. Ed. V.M. Kotlyakov. Moscow, "Nauka", 2007**

The book presents results of glaciological research, performed for the last 10-15 years by the Institute of Geography, RAS. The issues discussed are: snow cover influence of heat exchange, hydrothermal state regime of glaciers, Holocene past of glaciers, ice core as a source of paleoclimatic information, glaciological forecast for ice sheets and mountain glacier systems

**Mikhalenko V.N. Inner structure of glaciers in non-polar latitudes. Moscow: LKI, 2007, 320 pp.**

The monograph describes theoretical basis of glacier inner structure studies, methods of ice core acquisition, processing, and interpretation of ice core data. Ice core records from the Alps, Caucasus, Tien Shan, Pamir, Altai, Kamchatka, Himalayas, Tibet, South America and Africa are presented.

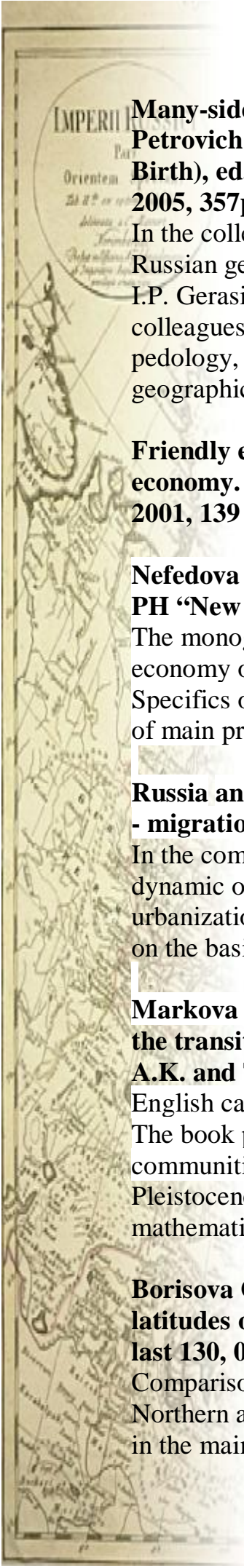
**Sustainable Development: Problems and Prospects. Moscow: Publisher: KMK. 2002-2006 Volumes 1-3, Vol. 3, "Environmental Management and Sustainable Development", ed by V.M. Kotlyakov, 445 pp**

The role of environmental management in socio-economic development of countries of different types and the World are analyzed. Connection between traditional researches in the system: nature-society-economy and sustainable development concept is shown. Problems of land use, mastering of natural resources, forest are presented for a number of levels.

**Glazovsky N.F Selected Works in 2 volumes. Editor-in chief – V.M. Kotlyakov, Moscow: Publisher: KMK Scientific press Ltd, 2006-2009.**

Volume 1 – Geochemical fluxes in the biosphere. 2006, 535 pp (works of N.F. Glazovsky for 1972-1988) Volume 2 – Sustainable development of the biosphere. 2009, 386 pp. pp (works of N.F. Glazovsky for 1990- 2005)

**Glazovsky N.F at al, Migration induced by desertification and drought in C.I.S. members-states UNEP, 2000, 100 pp. (In English)**



**Many-sided geography. Development of ideas of Innokentiy Petrovich Gerasimov ( on the occasion of the Centenary of the Birth), ed. N.F. Glazovsky. Moscow, KMK scientific press Ltd. 2005, 357pp.**

In the collection dedicated to 100<sup>th</sup> anniversary of the leader of the Russian geography of the second part of XX century – academician I.P. Gerasimov ( 1905 – 1985) there are papers of his followers and colleagues developing his heritage in the sphere of geomorphology, pedology, physical geography, cartography and compilation of geographical atlases.

**Friendly environment development of countries with transition economy. Ed – N.F. Glazovsky and G.N. Golubev, GEOS, UNEP. 2001, 139 pp (in English)**

**Nefedova T. Rural Russia at the crossroad (geographic essays) . PH “New PH” 2003, 405 pp. (English summary)**

The monograph is devoted to the geographic demention of the life and economy of the rural area of today’s Russia. Consists of three parts ( Specifics of Russia as a semi-rural country, Agreeculture, discussion of main principals of rural space organization).

**Russia and its regions in the twentieth century: land - resettlement - migration. Moscow: OGI, 2005, 813 pp.**

In the compilation book the administrative-territorial distribution, dynamic of population and demo-social modernization of the society, urbanization and role of cities in Russia in 20 th century is analyzed on the basis of rich statistical data. Crucial 1990s are studied in detail.

**Markova A.K. at al. The evolution of ecosystems in Europe during the transition from Pleistocene to Holocene. Ed-in chief Mrkova A.K. and T. Van Kolfshoten. Moscow: KMK, 2008 (Engl Res., English caption, tables.)**

The book presents a reconstruction of teriocomplexes, plant communities and ecosystems of Europe during the transition from Pleistocene to Holocene basing upon broad paleobiologic data, mathematical methods of the data processing is applied.

**Borisova O.K. Landscape and climatic changes in the middle latitudes of the Northern and Sothern Hemispheres during the last 130, 000 years. Moscow, GEOS, 2008, 247 pp.**

Comparison of the landscape and climatic changes in continental Northern and oceanic Southern Hemisphere analysis of synchronism in the main climatic events and thresholds are of primary importance

for understanding the general features and functioning of global climate system.

The book contains paleoreconstruction of the last interglacial/glacial macrocycle in the middle latitudes of the Southern Hemisphere and its general correspondence with the climatic events in the Northern One.

**Tishkov A.A. Biosphere functions of natural ecosystem in Russia. M.: Nauka, 2005, 309 pp.**

In the monograph the ideas of Russia presentation as an “ecological donor of the Earth” and the concept of “ecosystem services” are developed. The latter is based on productivity, global balance of carbon, regulation of climate and water, biodiversity and genetic resources conservation and other functions of ecosystems.

**Bazilevich N.I , Titlyanova A.A. Biotic cycle on five continents. Nitrogen and its elements in natural land ecosystems RAS, Institute of Geography Siberian Branch, Institute of Soil Sciences and Agrochemistry. Ed-in –chief – A.A. Tishkov, Novosibirsk, PH SB RAS, 2008, 257 pp.** (Electronic version on CD is included)

The main exchange processes between plant communities and soils have been established and quantified for 500 different ecosystems in tundra, forest, meadow, steppe, savanna, and desert in Eurasia, Americas, Africa, Australia and Oceania.

**Morozova O.V. Taxonomic richness of flora in Eastern Europe: Factors of spatial differentiation. Moscow: Nauka, 2008, 323 pp**

In the monograph the richness of flora in Eastern Europe is considered at three levels: species, genus, family (bloodline). Data about gamma-diversity is obtained. For the first the relationship between taxon richness from complex of factors ( such as climate, anthropogenic and historic-biogeographic factors) are presented for the large region.

**Krivenko VG Vinogradov VG Birds of the water environment and rhythms of climate in the Northern Eurasia. Moscow: Nauka, 2008, 588 pp. (English summary, the captions, tables.)**

The monograph deals with research of long-term changes in the number and areas of birds of aquatic habitat in a vast region of the Northern Hemisphere

**Kononova N.K. Classification of circulation mechanisms of the Northern Hemisphere by B.I. Dzerdzevski. Ed-in-chief – Dr. A.B. Shmakin, Moscow, 2009, 370 pp**

Results of study of the Northern Hemisphere atmospheric circulation (extratropical part) using classification of elementary circulation mechanisms (ECMs) developed by B.I. Dzerdzevski and his research group in Institute of Geography is presented. The characteristics of 41 ECMs are given as well as main principals of their allocation.



**Desertification of arid areas of Russia: new aspects, results, problems.** Ed. A.V. Drozdov, A.N. Zolotokrylin, A. F. Mandych, PH of KMK, Moscow, 2009

Main attention is paid to the problems of desertification of arid spaces in post-soviet period of Russia - correlation of climatic and anthropogenic factors, climate fluctuations and its influence on plants, social-economic tendencies in arid areas, human health.

**Geomorphologic regimes of Eurasia.** Ed-in chief – D.A. Timofeev. Moscow, Media-press, 2006, 400 pp.

The book presents a new principal of analysis of relief development history on the basis of allocation of different types of geomorphologic regimes. Characteristics of alternation of regimes are given for 11 huge regions of Eurasia.

**Likhacheva E.A., Timofeev D.A. Ecological geomorphology. Dictionary-reference book.** Moscow, Media-press, 2004, 240 pp.

Ecological geomorphology is young, actively developing discipline, a part of physical –geographical studies. The dictionary aims at making in sorting (ranking) existing terminology, and working out of new terms. Contains more than 500 terms, 5 figures, 15 tables and a reference list of 110 items.

**Studies of urban geomorphology.** Red. E.A. Likhacheva, D.A. Timofeev. , Moscow, Media-press. – 352 p.

The book is the result of long term investigation of geomorphology division of IG RAS. It consists in three parts 1- historical and ecological analysis of human habitat. 2 – Spatial variability and system of urbansphere. 3- The characteristic of rising and development of the urban geomorphologic systems.

**Gonyaniy M.I. at al. Northern forested steppe of Upper Don Basin in time of Kulikovo-Battle.** State Historical Museum publishing, Moscow, 2007, 207 pp.

A long-term study of archeologic artefacts related to well-known historic battle between Russian and French sides during the war with Napoleon.

**Kolosov V.A. and N.S. Mironenko. Political Geography and Geopolitics.** M., 2005 (in Russian).

One of the best textbooks on political geography and geopolitics now widely used not only in Russia but also in a number of neighbouring countries re-edited in 2001-2005. It includes a critical review of classical and contemporary approaches in this disciplines. A important part is devoted to border studies and to an analyses of political borders

in the post-Soviet space. Special chapters concern the problems of federalism and the territorial-administrative division and local self-government (with a particular focus on the former Soviet Union and Russia).

**Kolossov V., a cura di. La collocazione geopolitica della Russia. Rappresentazioni e realtà. Torino, Edizioni della Fondazione Giovanni Agnelli, 2001.**

The first attempt of a combined quantitative and qualitative evaluation of the geopolitical situation of Russia in the space of flows (foreign trade, investments, international air flights and phone calls, connections between Russian-speaking communities, etc.) and in the imagination of ordinary citizens, intellectuals and experts.

**Eckert D. and Kolossov V., eds. Large Cities and Challenges of Globalization. M.-Smolensk, 2003 (in Russian with French abstracts).**

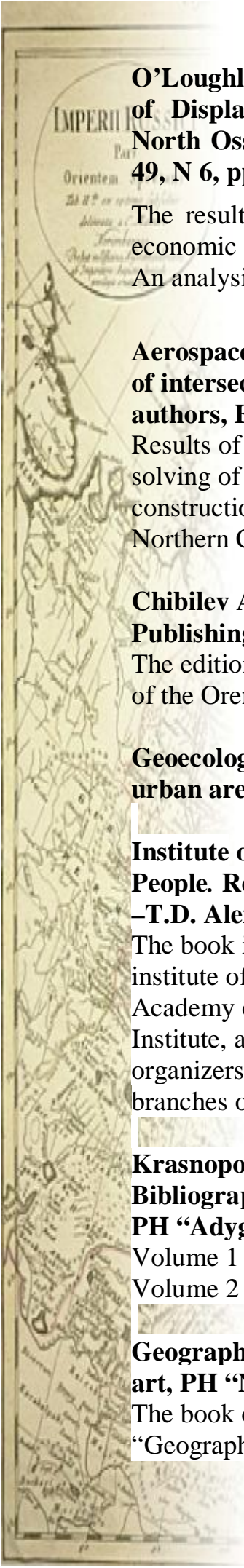
The book resulted from the Russian-French workshop on a comparative analysis of large urban agglomeration in West Europe and Russia. The contributions are devoted to the problem of notions and categories, methodological approaches, morphology, regional and urban policy, etc.

**O'Loughlin J. and Kolossov V., eds. Moscow as an Emergent World City. Special Issue of Eurasian Geography and Economy, 2002, vol. 23, No 3, pp. 161-270.**

The main results of a joint Russian-American research project on the emergence of Moscow as a new world city, the impact of globalization on its function and internal structure and the self-organization of society. The issue includes many tables, maps and other illustrations.

**O'Loughlin J., Toal G. and Kolossov V., eds. Special Issue on the Caucasus: Political, Population, and Economic Geographies // Eurasian Geography and Economy, 2007, vol. 48, No 2. pp. 127-265.**

The results of a joint Russian-American research project on social, economic and political dynamics of the situation in North Caucasus based on a statistical analysis and the data of the original survey. It includes the papers on the effect of the wars in Chechnya on neighbouring regions, the impact of demographic changes and migrations on ethnic relations and political stability, public opinion and political views on the regions at the federal level.



**O'Loughlin J., Toal G. and Kolossov V. The Localized Geopolitics of Displacement and Return in Eastern Prigorodnyy Rayon, North Ossetia. // Eurasian Geography and Economics, 2008, vol. 49, N 6, pp.635-669.**

The results of a joint Russian-American research project on social, economic and political dynamics of the situation in North Caucasus. An analysis of North Ossetia's very distinctive place in the region.

**Aerospace flexing (deciphering) in the system of ecological safety of intersection between nature and constructions. Group of authors, Ed-in –chief : V.A. Grachev Moscow 2006, 170 pp.**

Results of 10-years study in the multidisciplinary sphere including solving of applying tasks. The object of study – Russian Arctic, construction of pipelines in Tyumen region, railways in Siberia, in Northern Caucasus, etc

**Chibilev A.A. Orenburg area – a blessed part Orenburg Book Publishing House, 2008, 256 pp.**

The edition is an illustrated atlas-album of nature and historic-culture of the Orenburg heritage. (a leer from the author – in English)

**Geocology of Moscow: methodology and assessment methods of urban areas. Moscow : Media-Press, 2006;**

**Institute of Geography of the Russian Academy of Sciences and its People. Responsible Editor – V.M. Kotlyakov, editor and compiler –T.D. Alexandrova. Moscow. “Nauka”, 2008, 676 pp.**

The book is dedicated to the history of one of the oldest academic institute of our country – the Institute of Geography of the Russian Academy of Sciences. The major part is dedicated to the people of the Institute, among them there are many outstanding scientists, organizers of science, who created and developed new trends and branches of geography.

**Krasnopolsky A.V. National ( Russian) geographers (1917-1992). Bibliographic reference book. ed. S.B. Lavrov, Sankt-Peterburg, PH “Adygeya”, 1993**

Volume 1 from A to K, 491 pp.

Volume 2 – from L to Kh, 447 pp.

**Geographers – artists. Paintings, graphics, decorative - applying art, PH “Nash Isograph”, Moscow 2010, 48 pp.**

The book of artworks of the geographers from the Association “Geographica-Geojivopis”



## **A list of publications for the exhibition in Regional Conference of the IGU, Tel-Aviv, Izrael**

### **M. Lomonosov Moscow State University**

Atlas of the socio-economic development of Russia. Moscow. "Cartography" 2009

Monde diplomatique (additional partition about Russia). Moscow. 2007.

Atlas of channel morphodynamics of the Lower Volga (Editors: V.N. Korotaev, D.B. Babich, R.S. Chalov). Moscow University Press, 2009. 232 p.

Economic map of the world. Omsk mapping factory. Omsk: 2008.

Geocological condition of the Arctic coast of Russia and safety of nature management. M.: GEOS, 2007. 780 p.

Datsenko Y.S. EUTROPHICATION OF RESERVOIRS. Hydrological and hydrochemical aspects. Moscow, GEOS. 2007. - 252p.

Chalov R. S. Riverbed science: theory, geography; practice. Vol. I: Channel processes: factors, mechanisms, forms of manifestation and forming conditions

Medical demographic Atlas of Moscow region (Editors-in-chief S.M. Malkhazova, A.N.Gurov) Moscow State University. Geographical Faculty. 2007.



Medical demographic Atlas of Kaliningrad region (Editor-in-chief S.M. Malkhazova) Moscow State University. Geographical Faculty. 2007.

Biogeography in the Moscow University. Moscow: GEOS. 2008. 326 p.

Yevgeniy Nikolaevich Matyushkin in recollections – Moscow, KMK Scientific Press, 2009. 186 p.

Bobrov A.V., Melikian A.P., Romanov M.S. Morphogenesis of *Magnoliophyta* carpus M.: Librokom, 2009. 400 p.

System of the Laptev Sea and the Adjacent Arctic Seas. Modern and Past Environments. Moscow University Press, 2009. - 605 p.

Glushankova N.I. Paleopedogenesis and past environments of Eastern Europe during the Pleistocene. – Moscow-Smolensk: Magenta, 2008. – p.348

Landscape Analysis for Sustainable Development. Theory and Applications of Landscape Science in Russia. Moscow. Moscow University Press, 2007. 317 p.

Mokrov E.G. Seismic Factors of Avalanching. – M.: Scientific World, 2008. – 126 p.

Bogdanova M., Gavrilova I., and Gerasimova M. SMALL-SCALE SOIL-GEOCHEMICAL MAPPING. Edited by Acad. N.S. Kasimov. Moscow, 2008.

Volsky V.V. Selected works. Ed. A.S. Fetisova. Moscow – Smolensk: Oykumena, 2009. 378 p.

Zolotareva " E.A. Evolution of Mount Elbrus glaciarization. Cartography and aerospace technologies of glacier monitoring"

Global city: theory and reality. Ed. N.A. Sluka. Moscow: Avanglion, 2007. - 243 pp.

Socio-geographical problems of the ocean space and resources development. Ed. N.S. Mironenko. Moscow: Aspekt-Press, 2008. - 192 pp.

Sluka N.A. Geo-demographic phenomena of global cities. Moscow-Smolensk: Ecumene, 2009. - 317 pp.

Bityukova V.R. Socio-environmental problems of urban development. Moscow: Book House LIBROKOM, 2009 - 448 pp.

Socio-economic geography: tradition and modernity. Ed. A.I. Shkirinoy, V.E. Shuvalov. Moscow. - Smolensk: Ecumene, 2009. - 347 pp.

Agirrechu A.A. Scientific Towns of Russia: History and development. M.: Publisher- Moscow State University, 2009. - 192 pp.

Makhrova V.A., Nefedova T., Treivish A. Moscow region today and tomorrow: trends and perspectives of spatial development. Moscow: New Chronograph, 2008. - 344 pp.

