

INTERNATIONAL CONFERENCE
MODERN INFORMATION TECHNOLOGIES IN EARTH SCIENCES

SCIENTIFIC PROGRAM

Petropavlovsk-Kamchatsky, Russia, September 8–13, 2014

September 9, 2014

*Institute of Volcanology and Seismology FEB RAS,
9 Piip Boulevard, Petropavlovsk-Kamchatsky, Russia*

8.30 Conference room hall

REGISTRATION OF THE CONFERENCE PARTICIPANTS

10.00-18.00 Conference room

CONFERENCE OPENING

PLENARY SESSION

Moderators:

Khanchuk A.I., Far East Geological Institute FEB RAS (Russia)

Gordeev E.I., Institute of Volcanology and Seismology FEB RAS (Russia)

10.30-10.50

Khanchuk A.I.

Far East Geological Institute FEB RAS (Russia)

DEVELOPMENT OF INFORMATION AND TELECOMMUNICATION SYSTEMS IN THE FAR EASTERN
BRANCH OF RUSSIAN ACADEMY OF SCIENCES

10.50-11.20

¹*Gordeev E.I.,* ²*Naumova V.V.,* ³*Diakov S.E.*

¹*Institute of Volcanology and Seismology FEB RAS (Russia)*

²*Far East Geological Institute FEB RAS (Russia)*

³*Institute of Automation and Control Processes FEB RAS (Russia)*

REMOTE SENSING FOR SCIENTIFIC RESEARCH IN EARTH SCIENCES IN RUSSIAN FAR EAST

11.20-11.35 – *Coffee break*

11.35-11.55

Levin V.A., Aleksanina M.G.

Institute of Automation and Control Processes FEB RAS (Russia)

INFORMATION TECHNOLOGIES IN SATELLITE CENTER OF FEB RAS FOR MONITORING OF OCEAN AND
ATMOSPHERE

11.55-12.15

Smagin S.I., Sorokin A.A., Korolev S.P.

Computing Center FEB RAS (Russia)

IT INFRASTRUCTURE TO WORK WITH DATA IN FEBRAS INSTRUMENTAL OBSERVATIONS NETWORKS

12.15-12.35

Gvishiani A.D., Soloviev A.A., Krasnoperov R.I.

Geophysical Center RAS (Russia)

GEOMAGNETIC DATA CENTER OF THE RUSSIAN-UKRAINIAN INTERMAGNET SEGMENT

12.35-12.55

Zeleny L.M., Loupian E.A., Bartalev S.A.

Space Research Institute RAS (Russia)

USING THE CONTEMPORARY INFORMATION TECHNOLOGIES AND EARTH REMOTE MONITORING DATA
PROCESSING SYSTEMS FOR SOLVING THE FUNDAMENTAL SCIENTIFIC PROBLEMS

12.55-13.15

Timofeeva M.

Polycom. Moskow (USA)

VIDEO COLLABORATION — STAY CONNECTED ANY PLACE, ANY TIME, ANY DEVICE

13.15-14.45 – *Lunch*

PLENARY SESSION

Moderators:

Gvishiani A.D., Geophysical Center RAS (Russia)

Levin V.A., Institute of Automation and Control Processes FEB RAS (Russia)

14.45-15.05

Malyshov Yu.N., Rundqvist D.V., Sterligov B.V., Cherkasov S.V.

Vernadsky State Geological Museum RAS (Russia)

GEOLOGICAL INFORMATION AND MATHEMATICAL GEOLOGY TODAY. CHALLENGES AND PROSPECTIVES

15.05-15.25

¹*Komac M.,* ²*Petrov O.,* ²*Brekhov G.*

¹*Geological Survey of Slovenia (GeoZS, Slovenia), International project OneGeology*

²*A.P. Karpinsky Russian Geological Research Institute (Russia), International project OneGeology*

STATE AND DEVELOPMENT PROSPECTS OF THE INTERNATIONAL PROJECT ONEGEOLOGY IN EURASIA

15.25-15.45

Catherine Truffert

France's reference public institution for Earth Science applications, the French geological survey (France)

BRGM and EU collaborative projects

15.45-16.05

Glebova N.

Environmental Systems Research Institute in the CIS (Russia)

GEOGRAPHIC INFORMATION SYSTEMS TRENDS AND OUTLOOK

16.05-16.20 – Coffee break

16.20-16.40

Fedotov A.M., Barakhnin V.B., Fedotova O.A., Zhizhimov O.L.

Institute Computational Technologies SB RAS (Russia)

A MODEL OF DIGITAL LIBRARY TO SUPPORT RESEARCH ACTIVITIES

16.40-17.00

Zhizhimov O.L., Nikultsev V.S., Fedotov A.M., Shokin Yu.I.

Institute of Computational Technologies SB RAS (Russia)

DISTRIBUTED INFORMATION RESOURCES SB RAS AND TECHNOLOGICAL PLATFORMS ZOOSPACE

17.00-17.20

Ружников Г.М., Бычков И.В., Фёдоров Р.К., Хмельнов А.Е.

Институт динамики систем и теории управления СО РАН (Россия)

ИНФРАСТРУКТУРНЫЙ ПОДХОД ФОРМИРОВАНИЯ РЕГИОНАЛЬНЫХ ПРОСТРАНСТВЕННЫХ РЕСУРСОВ

17.20-17.40

Potapov V.P., Giniyatullina O.L., Andreeva N.V.

Institute of Computational Technologies SB RAS (Russia)

APPLICATION OF REMOTE SENSING FOR ASSESSMENT OF ECOLOGICAL STATE MINING AREAS IN WINTER TIME

17.40-18.00

Kopylov V.N., Mikhailov N.N.

All Russian Research Institute of Hydrometeorological Information-World Data Center (Russia)

EXPERIENCE OF INTEGRATION OF TERRITORY-DISTRIBUTED ENVIRONMENTAL DATA AT NATIONAL AND INTERNATIONAL LEVELS

19.00–22.00 — Welcoming Party. «Gold Anchor» Restaurant

September 10, 2014

*Institute of Volcanology and Seismology FEB RAS,
9 Piip Boulevard, Petropavlovsk-Kamchatsky, Russia*

10.00-18.00 Conference room

Session 2: **Remote sensing. Satellite monitoring of the environment. Techniques to analyze satellite data. Services for operational access to satellite data and systems for their processing.**

Moderators:

Mitnik L.M., V.I. Il'ichev Pacific Oceanological Institute FEB RAS (Russia)

Lupian E.A., Space Research Institute RAS (Russia)

10.00-10.15

Stéphane Chevrel

France's reference public institution for Earth Science applications, the French geological survey (France)

HIGH-RESOLUTION REMOTE SENSING IN MONITORING MINING-RELATED ENVIRONMENTAL AND SOCIETAL IMPACTS

10.15-10.30

^{1,2}*Liou Yuei-An, ^{1,2}Chan Hai-Po*

¹*National Central University (NCU, Taiwan)*

²*Taiwan Group on Earth Observations (TGEO, Taiwan)*

QUANTIFYING THERMAL ANOMALY ALONG FAULTED STRUCTURES IN ILAN OF TAIWAN BY USING SATELLITE IMAGERY

10.30-10.45

¹*Aleksanina M.G., ¹Fomin E.V., ²Stopkin M.V.*

¹*Institute of Automation and Control Processes FEB RAS (Russia)*

²*Far Eastern Federal University (Russia)*

INFORMATION SUPPORT OF PILOTAGES THROUGH ICE FIELDS DUE TO DATA OF METEOROLOGICAL SATELLITES ON THE EXAMPLE OF OKHOTSK SEA

10.45-11.00

Diakov S.E.

Far East Geological Institute FEB RAS (Russia)

CALIBRATION OF WEATHER SATELLITE'S THERMAL RADIOMETERS DATA

11.00-11.15

Didenko A.N., Gilmanova G.Z., Goroshko M.V.

Institute of Tectonics and Geophysics named after Yu. A. Kosygin FEB RAS (Russia)

SPECIALIZED RADAR DATA PROCESSING AND LINEAMENT ANALYSIS OF MORPHOSTRUCTURES OF THE UCHUR-MAYA BASIN

11.15-11.30 — *Coffee break*

11.30-11.45

Giniyatullina O.L., Potapov V.P., Schastlivtsev E.L.

Institute of Computational Technologies SB RAS (Russia)

DESIGNING THE SYSTEM OF COMPLEX ECOLOGICAL STATE ESTIMATION IN MINING REGIONS BASED ON REMOTE SENSING DATA

11.45-12.00

¹*Gordeev E.I., ²Lupian E.A., ¹Girina O.A., ²Efremov V.Yu., ³Sorokin A.A., ¹Melnikov D.V., ¹Manevich A.G.,*

¹*Romanova I.M., ³Korolev S.P., ⁴Kramareva L.S.*

¹*Institute of Volcanology and Seismology FEB RAS (Russia)*

²*Space Research Institute RAS (Russia)*

³*Computing Center FEB RAS (Russia)*

⁴*Far Eastern Center of Federal State Institution «Research Center for Space Hydrometeorology Planeta» (FEC FSI Planeta)*

STUDY OF THE KAMCHATKAN ACTIVE VOLCANOES WITH HELP OF THE INFORMATION SYSTEM VOL-SATVIEW

12.00-12.15

Ivanchenko G.N., Sanina I.A., Gorbunova E.M.

Institute of Geosphere Dynamics RAS (Russia)

REMOTE SENSING AND LINEAMENT ANALYSIS FOR DETECTION OF GEODYNAMIC ACTIVITY CENTRAL PART OF EAST EUROPEAN PLATFORM

12.15-13.15

ROUND TABLE OF «Polycom»

Timofeeva Marina, Polycom. Moscow (USA)

VIDEO COLLABORATION — STAY CONNECTED ANY PLACE, ANY TIME, ANY DEVICE

13.15-14.45 — *Lunch*

Session 2: Remote sensing. Satellite monitoring of the environment. Techniques to analyze satellite data. Services for operational access to satellite data and systems for their processing.

Moderators:

Didenko A.N., Institute of Tectonics and Geophysics named after Yu. A. Kosygin

Lavrova O.Yu., Space Research Institute RAS (Russia)

14.45-15.00

¹*Грищенко М.Ю., ²Жарков Р.В., ¹Устюхина А.В.*

¹*Московский Государственный Университет им. М.В. Ломоносова (Россия)*

²*Институт морской геологии и геофизики ДВО РАН (Россия)*

ИЗУЧЕНИЕ ПРОЯВЛЕНИЙ ВУЛКАНИЧЕСКОЙ АКТИВНОСТИ НА КУРИЛЬСКИХ ОСТРОВАХ ПО ТЕПЛОВЫМ КОСМИЧЕСКИМ СНИМКАМ С РЕСУРСНЫХ СПУТНИКОВ

15.00-15.15

Kirsanov A.A., Kiseleva E.A., Kirsanov G.A.

A.P. Karpinsky Russian Geological Research Institute (Russia)

APPLICATION OF SPACE IMAGING IN MONITORING OF OBJECTS MINERAL EXPLOITATION IN THE ARCTIC

15.15-15.30

Lavrova O.Yu., Loupian E.A., Mityagina M.I., Uvarov I.A.

Space Research Institute RAS (Russia)

A NEW TECHNOLOGY POWERED BY THE “SEE THE SEA” GEOPORTAL FOR THE STUDY OF OCEAN COASTAL ZONES FOCUSING ON COMPLEX ANALYSIS OF HYPERSPECTRAL DATA

15.30-15.45

Levin B.V., Rybin A.V., Chibisova M.V.

Institute of Marine Geology and Geophysics FEB RAS (Russia)

THE PROBLEMS OF VOLCANIC ACTIVITY MONITORING IN THE KURILE ISLANDS

15.45-16.00

Melnikov D.V., Ushakov S.V.

Institute of Volcanology and Seismology FEB RAS (Russia)

METHODS AND SYSTEMS OF THE REMOTE ANALYSES OF THE VOLCANOGENIC SO₂

16.00-16.15 — *Coffee break*

16.15-16.30

¹*Merzlyi A.M., ¹Kuzmin A.K., ¹Shadrin D.G., ²Kozelov B.V., ³Lyakhov A.N., ⁴Krilov A.S., ⁴Sitdikov I.T.,*

⁵*Banschikova M.A., ⁵Chuvashov I.N., ⁶Boiko V.A.*

¹*Space Research Institute RAS (Russia)*

²*Polar Geophysical Institute RAS (Russia)*

³*Institute of Geosphere Dynamics RAS (Russia)*

⁴*Faculty of Computational Mathematics and Cybernetics MSU (Russia)*

⁵*Institute of Applied Mathematics and Mechanics TSU (Russia)*

⁶*OAO NPP “Geophysica-Kosmos” (Russia)*

THE PROBLEMS OF MODERN APPLICATION OF INFORMATION TECHNOLOGIES IN DIAGNOSTICS OF POLAR IONOSPHERE CONDITIONS FROM THE SATELLITE ORBITS AND FROM THE EARTH BY MEANS OF PERSPECTIVE REMOTE MAPPING OPTICAL INSTRUMENTS

16.30-16.45

Mitnik L.M., Mitnik M.L.

V.I. Il'ichev Pacific Oceanological Institute FEB RAS (Russia)

SATELLITE MICROWAVE SENSING OF KAMCHATKA AND SURROUNDING SEAS

16.45-17.00

¹Mikhaylyukova P.G., ¹Tutubalina O.V., ²Zelenin E.A., ³Melnikov D.V.

¹Lomonosov Moscow State University (Russia)

²Geological Institute RAS (Russia)

³Institute of Volcanology and Seismology FEB RAS (Russia)

STUDY OF THE 2012-2013 TOLBACHIK FISSURE ERUPTION USING INSAR

17.00-17.15

Tolpin V.A., Balashov I.V., Uvarov I.A., Efremov V.Yu., Kashnizky A.V., Loupian E.A., Proshin A.A., Krasheninnikova Yu.S.

Space Research Institute RAS (Russia)

THE GEOSMIS TECHNOLOGY FOR CREATION OF SPATIAL DATA ANALYSIS USER INTERFACES OF THE DISTRIBUTED INFORMATION SYSTEMS FOR REMOTE MONITORING

17.15-17.30

Shevyrev S.L., Khomich V.G., Boriskina N.G.

Far East Geological Institute FEB RAS (Russia)

REGULARITIES OF ORE-PLACER OBJECTS' LOCATION OF THE RUSSIAN FAR EAST ON THE SPACE DATA

17.30-17.45

^{1,2}Svirid I.Yu., ¹Dvigalo V.N., ^{1,2}Shevchenko A.V.

¹Institute of Volcanology and Seismology FEB RAS (Russia)

²Vitus Bering Kamchatka State University (Russia)

AERIAL PHOTOGRAMMETRIC MONITORING OF THE ACTIVE VOLCANOES OF KAMCHATKA

17.45-18.00

¹Сизов О.С., ²Абросимов А.В.

¹Институт криосферы земли СО РАН (Россия)

²ООО «Компания «СовЗонд» (Россия)

АДАПТАЦИЯ СУЩЕСТВУЮЩИХ ТЕХНОЛОГИЙ ОБРАБОТКИ ДИСТАНЦИОННЫХ ДАННЫХ В ЦЕЛЯХ ОБЕСПЕЧЕНИЯ ЭКОЛОГИЧЕСКОГО МОНИТОРИНГА ОСТРОВНЫХ ТЕРРИТОРИЙ (НА ПРИМЕРЕ СОЛОВЕЦКОГО АРХИПЕЛАГА)

10.00-18.00 Small Conference room**Session 3: Geoinformation provisions of fundamental investigations in Earth Sciences.**

Moderators:

Cheremisina E.N., State Research Center VNIIGeosystem (Russia)

Krasnopeyev S.M., Pacific Institute of Geography FEB RAS (Russia)

10.00-10.15

Brazhnikov M.L., Konovalova T.I.

V.B. Sochava Institute of Geography SB RAS (Russia)

REMOTE SENSING FOR GEOSYSTEM MAPPING

10.15-10.30

Cheremisina E.N., Finkelstein M.Y.

State Research Center VNIIGeosystem (Russia)

GEOINFORMATION ENVIRONMENT FOR SOLVING GEOLOGICAL TASKS WITH GIS INTEGRO

10.30-10.45

¹Egidarev E.G., ²Simonov E.A.

¹Pacific Institute of Geography FEB RAS (Russia) /WWF (Russia)

²Rivers without Boundaries International Coalition (China)

BASIN-WIDE ANALYSES OF AMUR RIVER ENVIRONMENTAL PROBLEMS

10.45-11.00

Erikuly Zh., Panichkin V.Yu., Miroshnichenko O.L.

Institute of Hydrogeology and Geoecology named after U.M. Akhmedsafin (IHG, Kazakhstan)

SPECIAL HYDROGEOLOGICAL PARAMETRES MAP PREPARATION WITH GEOINFORMATIONAL TECHNOLOGIES UTILIZATION

11.00-11.15

Fridman A.

Institute for Informatics and Mathematical Modelling KSC RAS (Russia)

GIS-ORIENTED INTELLIGENT TECHNOLOGY FOR SITUATIONAL MODELLING OF DYNAMIC SPATIAL OBJECTS

11.15-11.30

Golubenko I.S., Goryachev N.A.

North-East Interdisciplinary Scientific Research Institute n.a. N.A. Shilo FEB RAS (Russia)

INFORMATION SYSTEM OF PRECIOUS METAL DEPOSITS OF THE MAGADAN REGION

11.30-11.45 — *Coffee break***11.45-12.00**

Kadochnikov A.A.

Institute of Computational Modeling SB RAS (Russia)

USING GEOGRAPHIC INFORMATION WEB SERVICES AND TECHNOLOGIES TO BUILD MONITORING SYSTEMS THE STATE OF THE ENVIRONMENT

12.00-12.15

Kilipko V.A., Mezhelovskiy A.D., Mezhelovskaia S.V., Sharoyko U.A.

Institute of Mineralogy, Geochemistry and Crystal Chemistry of Rare Elements (Russia)

GEOINFORMATION MODELING AS GRAPHICAL REPRESENTATION OF MINERAGENIC INFORMATION

12.15-12.30

¹*Lovtskaya O.V.*, ²*Rotanova I.N.*

¹*Institute of Water and Environmental Problems SB RAS (Russia)*

²*Altai State University (Russia)*

DEVELOPMENT OF GEOINFORMATION-CARTOGRAPHICAL SOFTWARE FOR ENVIRONMENTAL STUDY OF THE OB RIVER BASIN

12.30-12.45

Lunina O.V., Gladkov A.A.

Institute of the Earth's Crust SB RAS (Russia)

INFORMATION SYSTEM FOR DATA INTEGRATION ON ACTIVE TECTONICS

12.45-13.00

Panichkin V.Yu., Miroshnichenko O.L., Trushel L.Yu., Zakharova N.M., Vinnikova T.N., Erikuly Zh.

Institute of Hydrogeology and Geoecology named after U.M. Akhmedsafin (IHG, Kazakhstan)

GEOINFORMATIONAL MATHEMATICAL SIMULATION OF HYDROGEOLOGICAL CONDITIONS OF THE SYRDARYA ARTESIAN BASIN

13.00-13.15

^{1,2}*Parshin A.V.*, ¹*Filimonova L.M.*, ²*Prosekin S.N.*

¹*A.P. Vinogradov Institute of Geochemistry (Russia)*

²*Irkutsk State Technical University (Russia)*

METHODICAL AND TECHNICAL SOLUTIONS OF GIS FOR SNOW-GEOCHEMICAL OBSERVATIONS IN THE AREAS UNDER DIVERSE ANTHROPOGENIC IMPACT

13.15-13.30

^{1,2}*Soloviev A.A.*, ^{1,2}*Gvishiani A.D.*, ^{1,2}*Pyaygina O.O.*, ^{1,3}*Rybkina A.A.*, ¹*Nikiforov O.V.*

¹*Geophysical Center RAS (Russia)*

²*The Schmidt Institute of Physics of the Earth RAS (Russia)*

³*Federal State Budgetary Institution "Fedorov Institute of Applied Geophysics" (Russia)*

WEB MAPPING SERVICES FOR PROVIDING GEOLOGICAL, GEOPHYSICAL AND MEDICAL GEOGRAPHY GEODATA

13.15-14.45 — *Lunch***Session 3: Geoinformation provisions of fundamental investigations in Earth Sciences.**

Moderators:

Брехов Г.Б., A.P. Karpinsky Russian Geological Research Institute (Russia)

Koshkarev A.V., Institute of Geography RAS (Russia)

14.45-15.00

Starostin V.I., Gitis V.G.

Lomonosov Moscow State University (Russia)

GIS MODELING AND REGIONAL FORECASTING OF ORE DEPOSITS

15.00-15.15

Yakovleva A.N.

Far Eastern Federal University (Russia)

LARGE-SCALE MAPPING OF POTENTIAL VEGETATION USING TOPOGRAPHY VARIABLES

15.15-15.30

Yakubailik O.E.

Institute of Computational Modeling SB RAS (Russia)

INFORMATION AND COMPUTATIONAL TECHNOLOGIES, RESOURCES AND SERVICES OF THE GEOPORTAL OF ICM SB RAS

15.30-15.45

Yuon E.M., Chesalov L.E., Markov K.N.

State Research Center VNIIGeosystem (Russia)

APPLICATION OF INTERNATIONAL GEOLOGICAL DATA FORMATS FOR GEOLOGICAL STUDY AND NATURE USE MANAGEMENT INFORMATION SYSTEMS

15.45-16.00

Yurchenko Yu.Yu.

A.P. Karpinsky Russian Geological Research Institute (Russia)

THE CREATING OF THE SYNTHETIC PREDICTION MAPS ON THE BASIS OF GIS FOR GEOLOGICAL MAPPING AREAS WITH A COMPLEX LANDSCAPE CONDITIONS

16.00-16.15

Хромова Т.Е.

Институт географии РАН (Россия)

РАЗВИТИЕ ИНФОРМАЦИОННОЙ ОСНОВЫ КОМПЛЕКСНЫХ ИССЛЕДОВАНИЙ КРИОСФЕРЫ

16.15-16.30 — *Coffee break*

16.30-18.00

MASTER CLASSES

Nagornyyuk K.E., Glebova N.A.

Environmental Systems Research Institute in the CIS. Moscow (USA)

FROM DATA INTEGRATION TO GEOPORTALS CREATION BASED ON ARCGIS PLATFORM

10.00-12.30 Student's room

Session 1: Networking for data acquisition. Development of the systems for remote monitoring of natural phenomena.

Moderators:

Rasskazov I.Yu., Mining Institute FEB RAS (Russia)

Chebrov V.N., Kamchatka Branch of Geophysical Survey RAS (Russia)

10.00-10.15

^{1,2}*Aleshin I.M.,* ³*Alpatov V.V.,* ³*Vasiliev A.E.,* ¹*Burguchev S.S.,* ¹*Kholodkov K.I.,* ¹*Perederin F.V.*

¹*The Schmidt Institute of Physics of the Earth RAS (Russia)*

²*Geophysical Center RAS (Russia)*

³*Institute of Applied Geophysics Hydrometeorological Center of Russia (Russia)*

EXPERIENCE OF DEVELOPMENT OF REAL-TIME SERVICE, DEIGNED FOR GLOBAL NAVIGATION SATELLITE SYSTEMS GROUND STATION NETWORK DATA ACQUISITION

10.15-10.30

¹*Cherneva N.V.,* ¹*Vodinchar G.M.,* ¹*Mel'nikov A.N.,* ¹*Sannikov D.V.,* ²*Permyakov M.S.,* ²*Potalova E.Yu.,*

¹*Sivokon' V.P.,* ¹*Druzhin G.I.,* ¹*Shevtsov B.M.,* ³*Holzworth R.,* ⁴*Lichtenberger J.*

¹*Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS (Russia)*

²*V.I. Il'ichev Pacific Oceanological Institute FEB RAS (Russia)*

³*University of Washington (UW, USA)*

⁴*Eotvos Lorand University (ELTE, Hungary)*

DEVELOPMENT OF COMPLEX NETWORKS FOR RADIO PULSE DETECTION AND IDENTIFICATION

10.30-10.45

Firstov P.P., Makarov E.O., Voloshin V.N.

Kamchatka Branch of Geophysical Survey RAS (Russia)

HARDWARE COMPLEX AND NETWORK OF STATIONS FOR RECORDING SOIL GAS CONCENTRATIONS AND SEARCHING FOR PRECURSOR ANOMALIES OF STRONG EARTHQUAKES IN SOUTH KAMCHATKA

10.45-11.00

Gavrilov V.A., Vlasov Yu.A., Denisenko V.P., Fedoristov O.V.

Institute of Volcanology and Seismology FEB RAS (Russia)

TECHNIQUES OF GEOENVIRONMENT STRESS-STRAINED STATE AUTOMATICALLY CONTROLLED BOREHOLE MONITORING OF THE PETROPAVLOVSK-KAMCHATSKII GEODYNAMIC RANGE

11.00-11.15

Gladyr A., Rasskazov I., Lugovoj V., Rasskazov M., Tsoy D., Miroshnikov V.

Mining Institute FEB RAS (Russia)

DEVELOPMENT OF AUTOMATED SYSTEM OF COMPLEX SEISMODEFORMATION MONITORING OF BURST
— HAZARD ROCK MASSIF

11.15-11.30

Khomutov S.Y., Babakhanov I.Y., Basalaev M.L., Dumbrava Z.F., Poddelsky I.N.

Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS (Russia)

MAGNETIC OBSERVATORIES OF IKIR FEB RAS: STANDARDIZATION OF MEASUREMENTS, PROCESSING
AND DATABASE MANAGEMENT

11.30-11.45

^{1,2}*Morozov A.N., ¹Antonovskaya G.N.*

¹*Institute of Ecological Problems of the North UrB RAS (Russia)*

²*Geophysical Survey RAS (Russia)*

ORGANIZATION OF SEISMIC OBSERVATION IN THE WESTERN PART OF THE ARCTIC (ARKHANGELSK
SEISMIC NETWORK)

11.45-12.00 — *Coffee break*

12.00-12.15

Soloviev A.A., Kaftan V.I., Krasnoperov R.I., Sidorov R.V.

Geophysical Center RAS (Russia)

MODERN TECHNOLOGICAL SOLUTIONS FOR GEOPHYSICAL SURVEY DURING THE DEPLOYMENT OF IN-
TERMAGNET OBSERVATORIES IN RUSSIA

12.15-12.30

Titkov N.N.

Kamchatka Branch of Geophysical Survey RAS (Russia)

THE KAMCHATKA REGIONAL PERMANENT GNSS NETWORK KB GS RAS. AUTOMATION OF DATA AC-
QUISITION, PROCESSING AND INTERPRETATION

12.30-18.00 Student's room

Session 4: **Mathematic modeling of natural processes.**

Moderators:

Chetyrbotsky A.N., Far East Geological Institute FEB RAS (Russia)

Ружников Г.М., Институт динамики систем и теории управления СО РАН (Россия)

12.30-12.45

Belov V.V., Tarasenkov M.V.

V.E. Zuev Institute of Atmospheric Optics SB RAS (Russia)

ON THE SPEED AND ACCURACY OF ALGORITHMS FOR ATMOSPHERIC CORRECTION OF THE VISIBLE
AND UV SATELLITE IMAGES

12.45-13.00

¹*Anikin P.A., ¹Rasskazov I.Yu., ²Tsitsiashvili G.S.*

¹*Mining Institute FEB RAS (Russia)*

²*Institute of Applied Mathematics FEB RAS (Russia)*

IMPROVEMENT OF TECHNIQUE OF ASSESSMENT OF GEOMECHANICAL CONDITION OF GEOENVIRON-
MENT ACCORDING GEOACOUSTIC MONITORING DATA

13.00-13.15

¹*Chetyrbotsky A.N., ²Chetyrbotsky V.A.*

¹*Far East Geological Institute FEB RAS (Russia)*

²*Lomonosov Moscow State University (Russia)*

FORECAST STATUS OF ARCTIC SEA ICE EXTENT

13.15-14.45 — *Lunch*

Session 4: **Mathematic modeling of natural processes.**

Moderators:

Belov V.V., V.E. Zuev Institute of Atmospheric Optics SB RAS (Russia)

Aleksanina M.G., Institute of Automation and Control Processes FEB RAS (Russia)

14.45-15.00

Chizhova I.A., Volkov A.V., Lobanov K.V.

Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry RAS (Russia)

COMPARATIVE ANALYSIS OF EPITHERMAL DEPOSITS BASED ON VARIATION OF GOLD-SILVER RATIO IN ORES

15.00-15.15

^{1,2}*Dolgaya A.A., ¹Vikulin A.V., ¹Akmanova D.R.*

¹*Institute of Volcanology and Seismology FEB RAS (Russia)*

²*Kamchatka State Technical University (Russia)*

MATHEMATICAL METHODS OF ANALYSIS OF SPATIAL AND TEMPORAL REGULARITIES OF GEODYNAMIC PROCESS

15.15-15.30

^{1,2}*Fetisova N.V. (Glushkova), ^{1,2}Mandrikova O.V.*

¹*Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS (Russia)*

²*Kamchatka State Technical University (Russia)*

METHOD OF IONOSPHERIC PARAMETERS MODELING AND DETECTION OF ANOMALIES ON THE BASIS OF MULTICOMPONENT MODEL

15.30-15.45

Gorbacheva T.T., Mazukhina S.I., Ivanov S.V. Institute Industrial Ecology Problems of the North KSC RAS (Russia)

PHYSICO-CHEMICAL MODELING OF SNOW CHEMICAL COMPOSITION NEAR INDUSTRIAL CENTERS OF THE MURMANSK REGION

15.45-16.00

¹*Gusiakov V.K., ²Chubarov L.B., ²Beisel S.A.*

¹*Institute of Computational Mathematics and Mathematical Geophysics SB RAS (Russia)*

²*Institute of Computational Technologies SB RAS (Russia)*

MATHEMATICAL MODELING IN TSUNAMI HAZARDS ASSESSMENT: PROBLEMS AND PERSPECTIVES

16.00-16.15

Imomnazarov Kh.Kh., Mikhailov A.A.

Institute of Computational Mathematics and Mathematical Geophysics SB RAS (Russia)

NUMERICAL MODELING OF SEISMIC FIELDS IN VISCOELASTIC AND POROUS MEDIA FOR DISSIPATIVE CASE

16.15-16.30

¹*Kiryukhin A., ¹Manukhin Tu, ¹Fedotov S., ²Lavrushin V., ¹Rychkova T., ³Ryabinin G., ¹Polyakov A.,*

¹*Voronin P.*

¹*Institute of Volcanology and Seismology FEB RAS (Russia)*

²*Geological Institute RAS (Russia)*

³*Kamchatka Branch of Geophysical Survey RAS (Russia)*

GEOFLUIDS OF AVACHINSKY-KORYAKSKY VOLCANOGENIC BASIN, KAMCHATKA, RUSSIA

16.30-16.45 — *Coffee break*

16.45-17.00

Komendantova N.

International Institute for Applied Systems Analysis (IIASA, Austria)

RISK GOVERNANCE OF NATURAL HAZARDS THROUGH LENSES OF SYSTEMS ANALYSIS: EVIDENCE FROM INTERNATIONAL CASES

17.00-17.15

¹*Kulik B.A., ²Fridman A.Ya.*

¹*Institute of Problems in Mechanical Engineering RAS (Russia)*

²*Institute for Informatics and Mathematical Modelling KSC RAS (Russia)*

ADVANTAGES OF USING N-TUPLE ALGEBRA FOR LOGIC-SEMANTIC ANALYSIS OF DATA AND KNOWLEDGE IN GEOLOGY

17.15-17.30

¹Lavrentiev M.M., ²Marchuk An.G., ³Simonov K.V., ¹Romanenko A.A., ⁴Kurako M.A.

¹Novosibirsk State University (Russia)

²Institute of Computational Mathematics and Mathematical Geophysics SB RAS (Russia)

³Institute of Computational Modeling SB RAS (Russia)

⁴Siberian Federal University (Russia)

CALCULATION AND INFORMATION TECHNOLOGIES TO SOLVE TSUNAMI MONITORING PROBLEMS

17.30-17.45

Lobanov K.V., Chicherov M.V., Chizhova I.A.

Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry RAS (Russia)

THE INTEGRATED DEEP MODEL AND ORE-FORMING SYSTEMS OF THE PECHENGA DISTRICT (FENNO-SCANDIAN SHIELD)

17.45-18.00

Kazakov V.

University of Technology (Australia)

OPTIMIZATION THERMODYNAMICS APPLICATION FOR COMPUTATIONAL MODELLING

September 11, 2014

*Institute of Volcanology and Seismology FEB RAS,
9 Piip Boulevard, Petropavlovsk-Kamchatsky, Russia*

10.00-14.00 Conference room

Session 6: Virtual research media and laboratories. Unified communications. Cloud technologies. Corporate portals. Experience of constructing and related problems. High-speed calculations.

Moderators:

Серебряков В.А., Вычислительный Центр РАН(ВЦ РАН, Россия)

Zhizhimov O.L., The Institute of Computational Technologies SB RAS (Russia)

10.00-10.15

¹Golenkov E.A., ¹Kharitonov D.I., ¹Tarasov G.V., ²Alatin A.E.

¹Institute of Automation and Control Processes FEB RAS (Russia)

²Far Eastern Federal University (Russia)

INFORMATION SYSTEM FOR CONTROL APPLICATION SOFTWARE PACKAGES IN GENERAL-PURPOSE COMPUTING CLUSTERS

10.15-10.30

¹Kosyakov D.V., ²Guskov A.E.

¹The Trofimuk Institute of Petroleum Geology and Geophysics SB RAS (Russia)

²Institute Computational Technologies SB RAS (Russia)

SB RAS CORPORATE CLOUD PROJECT

10.30-10.45

¹Medvedev A.A., ¹Koshkarev A.V., ²Polikarpov S.A.

¹Institute of Geography RAS (Russia)

²Dorodnitsyn Computing Center RAS (Russia)

VIRTUAL WEB-LABORATORY OF SPATIAL ANALYSIS: RESOURCES AND METHODS

Session 5: Open access as the modern practice of scientific communication. Electronic libraries and collections. Integration of territory-distributed heterogeneous data collected in the field of Earth sciences. Infrastructure of spatial data. Problems of spatial data integration, services and applications.

Moderators:

Серебряков В.А., Вычислительный Центр РАН(ВЦ РАН, Россия)

Zhizhimov O.L., The Institute of Computational Technologies SB RAS (Russia)

10.45-11.00

^{1,2}Barakhnin V.B., ^{1,2}Fedotov A.M., ¹Skachkov D.M., ²Solovyov A.A., ¹Zhizhimov O.L.

¹Institute of Computational Technologies SB RAS (Russia)

²Novosibirsk State University (Russia)

TECHNOLOGY OF GEOGRAPHIC DATA EXTRACTION FROM TEXT DOCUMENTS

11.00-11.15

Goryachev I.N.

JSC "Magadangeologiya" (Russia)

GIS-PORTAL "GEOLOGY AND GEOPHYSICS OF RUSSIAN FAR EAST": INTEGRATION OF "GHOST" SPATIAL DATA

11.15-11.30 — *Coffee break***11.30-11.45**

¹*Koshkarev A.V.*, ²*Rotanova I.N.*

¹*Institute of Geography RAS (Russia)*

²*Altai State University (Russia), Institute of Water and Environmental Problems SB RAS (Russia)*

POSITION AND ROLE OF RUSSIAN RESEARCH AND EDUCATION COMMUNITY IN FORMATION AND DEVELOPMENT OF SPATIAL DATA INFRASTRUCTURE

11.45-12.00

Krasnopeyev S.M., Pashinskiy S.S., Shulkin E.V., Krasnopeyeva T.A.

Pacific Institute of Geography FEB RAS (Russia)

IMPLEMENTATION OF GEOPROCESSING SERVICE FOR THE PACIFIC INSTITUTE OF GEOGRAPHY SDI

12.00-12.15

Leonova Yu.V.

Institute Computational Technologies SB RAS (Russia)

TECHNOLOGY OF EXTRACTION OF KNOWLEDGE FROM MASSIFS OF DISSERTATION WORKS ON THE EXAMPLE OF SCIENCES ABOUT EARTH

12.15-12.30

Naumova V.V., Goryachev I.N., Diakov S.E., Belousov A.V., Platonov K.A.

Far East Geological Institute FEB RAS (Russia)

MODERN TECHNOLOGIES FOR DEVELOPMENT OF THE INFORMATION INFRASTRUCTURE SUPPORTING SCIENTIFIC GEOLOGICAL INVESTIGATIONS IN THE RUSSIAN FAR EAST

12.30-12.45

¹*Oparin V.N.*, ¹*Leontev A.V.*, ²*Potapov V.P.*

¹*Institute of Mining SB RAS (Russia)*

²*Institute of Computational Technologies SB RAS (Russia)*

THE NEW APPROACH TO BUILDING OF THE DISTRIBUTED INFORMATION COMPLEXES FOR PROBLEM SOLVING OF GEODYNAMIC SAFETY OF LARGE MINING REGIONS

12.45-13.00

Romanova I.M.

Institute of Volcanology and Seismology FEB RAS (Russia)

LOCAL SPATIAL DATA INFRASTRUCTURE IN THE INSTITUTE OF VOLCANOLOGY AND SEISMOLOGY FEB RAS: CURRENT STATE AND DEVELOPMENT PROSPECT

13.00-13.15

Snezhko V., Brekhov G., Berezyk N., Kovalenko E.

A.P. Karpinsky Russian Geological Research Institute (Russia)

DATABASE OF THE STATE GEOLOGICAL MAPS FOR THE TERRITORY OF RUSSIA AND ITS CONTINENTAL SHELF, THE MAIN STAGES OF CREATING THE CURRENT STATE AND DEVELOPMENT PROSPECTS

13.15-13.30

Brekhov G., Snezhko V., Berezyk N.

A.P. Karpinsky Russian Geological Research Institute (Russia)

TO THE QUESTION OF INTERACTION OF GEOLOGICAL INFORMATION SYSTEMS

13.30-13.45

Vyazilov E.D., Mikhaylov N.N., Melnikov D.A., Legchikov D.K.

All Russian Research Institute of Hydrometeorological Information-World Data Center (Russia)

QUESTIONS OF REALIZATION OF THE UNIFIED STATE SYSTEM OF INFORMATION FOR WORLD OCEANS

13.45-14.00

Ростов И.Д., Ростов В.И., Рудых Н.И., Дмитриева Е.В.

Тихоокеанский океанологический институт им. В.И. Ильичева ДВО РАН (Россия)

РЕСУРСЫ И ТЕХНОЛОГИИ ИНФОРМАЦИОННОЙ ПОДДЕРЖКИ МОРСКОЙ ПРИРОДОПОЛЬЗОВАТЕЛЬСКОЙ ДЕЯТЕЛЬНОСТИ И НАУЧНЫХ ИССЛЕДОВАНИЙ В ДВ РЕГИОНЕ РОССИИ

10.00-14.00 Small Conference room

Session 4: **Mathematic modeling of natural processes.**

Moderators:

Soloviev A.A., Geophysical Center RAS (Russia)

Belov V.V., V.E. Zuev Institute of Atmospheric Optics SB RAS (Russia)

10.00-10.15

¹*Moiseenko K.B.,* ²*Malik N.A.*

¹*Obukhov Institute of Atmospheric Physics RAS (Russia)*

²*Institute of Volcanology and Seismology FEB RAS (Russia)*

APPLICATION OF ATMOSPHERIC NUMERICAL MODELS FOR ASH TRANSPORT SIMULATIONS AND RETRIEVAL OF ERUPTION SOURCE PARAMETERS

10.15-10.30

Natyaganov V.L., Nechayev A.M.

Lomonosov Moscow State University (Russia)

ANALYSIS OF CASES AND MECHANISMS FOR THE REPLACEMENT OF SEISMIC ACTIVITY ON THE VOLCANIC ONE

10.30-10.45

Pshenichny C.A.

National Research University of Information Technologies, Mechanics and Optics (Russia)

THEORETICAL AND PRACTICAL ISSUES OF ENGINEERING OF VOLCANOLOGICAL KNOWLEDGE

10.45-11.00

Soloviev A.A., Bogoutdinov Sh.R., Agayan S.M.

Geophysical Center RAS (Russia)

NEW FUZZY LOGIC TECHNIQUE FOR MODELLING GEOMAGNETIC SECULAR VARIATION USING ON-GROUND OBSERVATIONS

11.00-11.15

^{1,2}*Solovyev I.S.,* ^{1,2}*Mandrikova O.V.,* ¹*Smirnov S.E.*

¹*Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS (Russia)*

²*Kamchatka State Technical University (Russia)*

AUTOMATIC SYSTEM FOR CALCULATING THE INDEX OF GEOMAGNETIC ACTIVITY K

11.15-11.30

Vaganova N.V.

Institute of Ecological Problems of the North UrB RAS (Russia)

THE APPLICATION OF TECHNIQUE RECEIVER FUNCTIONS IN THE STUDY OF THE CRUST AND UPPER MANTLE OF THE ARCTIC AND SUBARCTIC TERRITORIES

11.30-11.45 — *Coffee break*

11.45-12.00

Voropaev P.V., Saltykov V.A.

Kamchatka Branch of Geophysical Survey RAS (Russia)

STATISTICAL ANALYSIS OF SEISMICITY LEVEL: METHOD, REALIZATION, APPLICATION AT REGIONAL AND LOCAL SCALE

12.00-12.15

Zakharova N.B., Agoshkov V.I., Parmuzin E.I.

Institute of Numerical Mathematics RAS (Russia)

HYDROPHYSICAL OBSERVATION DATA INTERPOLATION TAKING INTO ACCOUNT CHARACTERISTICS OF ADVECTIVE AND CONVECTIVE CURRENTS

12.15-12.30

¹*Zalyaev T.L.,* ^{1,2}*Mandrikova O.V.,* ^{1,2}*Solovev I.S.*

¹*Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS (Russia)*

²*Kamchatka State Technical University (Russia)*

ANALYSIS OF GEOMAGNETIC DATA AND COSMIC RAY VARIATIONS IN PERIODS OF MAGNETIC PERTURBATIONS

12.30-12.45

^{1,2}*Zhizhikina E.A.,* ^{1,2}*Mandrikova O.V.*

¹*Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS (Russia)*

²*Kamchatka State Technical University (Russia)*

NEURAL NETWORK FOR GEOMAGNETIC DATA ANALYSIS

12.45-13.00*Захидов М.Т.**Отделение Мировой Базы Данных для Образования и Научного Обмена (Узбекистан)*

ТЕПЛООБМЕН В НЕФТЕГАЗОНОСНОМ ПЛАСТЕ С ВНЕДРЁННОЙ ЦИЛИНДРИЧЕСКОЙ СКВАЖИНОЙ

13.00-13.15¹*Шулюпин А.Н., ¹Рассказов И.Ю., ²Чермошеницева А.А.*¹*Институт горного дела ДВО РАН (Россия)*²*Камчатский государственный технический университет (Россия)*

МАТЕМАТИЧЕСКОЕ МОДЕЛИРОВАНИЕ КАК ИНСТРУМЕНТ ОПРЕДЕЛЕНИЯ ХАРАКТЕРИСТИК ВЫСОКОТЕМПЕРАТУРНОГО ГЕОТЕРМАЛЬНОГО РЕЗЕРВУАРА ПО ИЗМЕРЕНИЯМ НА УСТЬЕ СКВАЖИН

13.15-13.30¹*Verkhoturov A.L., ²Sokolova G.V., ³Efremov V.Yu., ³Egorov V.A.*¹*Computing Center FEB RAS (Russia)*²*Institute of the Water and Ecology Problems FEB RAS (Russia)*³*Space Research Institute RAS (Russia)*

STUDY OF INFLUENCE OF CHANGES IN FORESTS AREA ON CATCHMENT AREAS OF RIVERS BALANCE ACCORDING ERS DATA (USE IN THE MIDDLE AND LOWER AMUR)

13.30-13.45¹*Kalinnikov I.I., ^{2,3}Mikheeva A.V.*¹*The Schmidt Institute of Physics of the Earth RAS (Russia)*²*Institute of Computational Mathematics and Mathematical Geophysics SB RAS (Russia)*³*Trofimuk Institute of Petroleum-Gas Geology and Geophysics SB RAS (Russia)*

THE GIS-EEDB-SYSTEM, LINEAMENTS AND PROSPECTS OF EARTHQUAKE PREDICTION

13.45-14.00*Архипова А.А.**Московский Государственный Университет им. М.В. Ломоносова (Россия)**Институт океанологии РАН (Россия)*

МОДЕЛИРОВАНИЕ ШТОРМОВЫХ НАГОНОВ В ОХОТСКОМ МОРЕ С ИСПОЛЬЗОВАНИЕМ ADCIRC (THE ADVANCED CIRCULATION MODEL)

10.00-13.30 Students room**Session 7: Thematic Data Base, Information Systems. Subject-oriented systems.***Moderators:**Nabiullin A.A., Central Scientific Library FEB RAS (Russia), V.I. Il'ichev Pacific Oceanological Institute FEB RAS (POI FEB RAS, Russian)***10.00-10.15***Nabiullin A.A.**Central Scientific Library RAS (Russia)**V.I. Il'ichev Pacific Oceanological Institute FEB RAS (Russia)*

INFORMATION FLOW DYNAMICS OF SCIENTIFIC DISCIPLINES IN THE EARTH SCIENCES

10.15-10.30*Braginskaya L.P., Kovalevsky V.V., Grigoruk A.P.**Institute of Computational Mathematics and Mathematical Geophysics SB RAS (Russia)*

WEB-ORIENTED INFORMATION SYSTEM «ACTIVE SEISMOLOGY»

10.30-10.45¹*Xu Xuechun, ¹Zheng Changqing, ²Xu Bo*¹*College of Earth Sciences, Jilin University (China)*²*Center for Northeast Asia Studies, Jilin University (China)*

FIELD EXPERIMENTATION OF DEEP EXPLORATION TECHNOLOGY AND INFORMATION INTEGRATION IN XINGCHING EXPERIMENT BASE OF SINOPROBE PROJECT OF CHINA

10.45-11.00*Chebrov V.N., Kopylova G.N., Kugaenko Yu.A., Matveenko E.A., Saltykov V.A., Senyukov S.L., Sergeev V.A., Poletaev V.A., Firstov P.P., Chebrova A.Yu., Chebrov D.V., Yashchuk V.V.**Kamchatka Branch of the Geophysical Survey of RAS (Russia)*

INFORMATION RESOURCES KB GS RAS FOR FUNDAMENTAL AND APPLIED RESEARCH IN THE EARTH SCIENCES

11.00-11.15

¹Kosyakov D.V., ¹Dochkin D.A., ²Guskov A.E.

¹The Trofimuk Institute of Petroleum Geology and Geophysics SB RAS (Russia)

²Institute Computational Technologies SB RAS (Russia)

RESEARCH INSTITUTION PUBLIC-FACING WEB SITE, BASED ON CRIS DATA

11.15-11.30

^{1,2}Mikheeva A.V., ²Dyadkov P.G.

¹Institute of Computational Mathematics and Mathematical Geophysics SB RAS (Russia)

²The Trofimuk Institute of Petroleum Geology and Geophysics SB RAS (Russia)

MODIFICATIONS OF THE GIS-EEDB-SYSTEM FORSTUDYING A SPATIAL-TEMPORAL DISTRIBUTION OF SEISMICITY IN THE FAR EAST AREAS

11.30-11.45

Zadorozhnyy M.V., Lysov A.I.

V.S. Sobolev Institute of Geology and Mineralogy SB RAS (Russia)

AIS “GEOBRAZ”: DESKTOP VERSION OF THE DIGITAL NOTEBOOK FOR GEOLOGISTS

11.45-12.00 — *Coffee break***12.00-12.15**

Zuev P.I.

Institute mining UB RAS (Russia)

VISUALIZATION OF DISPLACEMENT IN THE ROCK MASS

12.15-12.30

¹Xue Linfu

¹College of Earth Sciences, Jilin University (China)

REGIONAL 3D GEOLOGICAL MODLING SYSTEM

12.30-12.45

¹Petrov V.A., ¹Leksin A.B., ²Sankov V.A., ³Pogorelov V.V., ⁴Rasskazov I.Yu.

¹Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry RAS (Russia)

²Institute of the Earth’s Crust SB RAS (Russia)

³The Schmidt Institute of Physics of the Earth RAS (Russia)

⁴Mining Institute FEB RAS (Russia)

MODELING OF STRESSED-STRAINED STATE OF ROCK MASSIFS IN ARGUN BLOCK, TRANSBAIKALIA, RUSSIA

12.45-13.00

Ototuk D.A., Vikulina S.A., Novikov S.S., Chebrov D.V.

Kamchatka Branch of Geophysical Survey RAS (Russia)

TECHNICAL AND SOFTWARE RESOURCES OF TSUNAMI WARNING SYSTEM OPERATOR’S WORKPLACE AT THE PROCESSING CENTER “PETROPAVLOVSK”

13.00-13.15

Aseev N.A., Zakharova N.B., Agoshkov V.I., Parmuzin E.I., Assovskiy M.V., Fomin V.V.

Institute of Numerical Mathematics RAS (Russia)

INFORMATIONAL COMPUTATIONAL SYSTEM FOR VARIATIONAL DATA ASSIMILATION “INM RAS — BLACK SEA”

13.15-13.30

Slagoda E.A., Ermak A.A.

Institute of the Earth Cryosphere SB RAS (Russia)

PROCESSING OF REMOTE SENSING DATA TO IDENTIFY EXOGENOUS PROCESSES IN THE YAMAL PENINSULA

13.30-13.45

¹Zelenin E.A., ²Ponomareva V.V., ³Mikhaylyukova P.G.

¹Geological Institute RAS (Russia)

²Institute of Volcanology and Seismology FEB RAS (Russia)

³Lomonosov Moscow State University (Russia)

THE GEOSPATIAL DATABASE OF KAMCHATKA HOLOCENE VOLCANISM: STRUCTURE AND IMPLEMENTATION USING POSTGRES/POSTGIS

13.45-14.00

Salaorni E., Sorg A., Stoffel M., Chernomorets S., Tutubalina O.V.

Institute of the Earth Cryosphere SB RAS (Russia)

DENDROGEOMORPHIC RECONSTRUCTION OF LAHAR EVENTS AT KLYUCHEVSKOY AND SHIVELUCH VOLCANOES (Russia)

14.00-14.15

Жижин В.И.

Институт мерзлотоведения им.П.И.Мельникова СО РАН (Россия)

ГЕОКРИОЛОГИЧЕСКАЯ БАЗА ДАННЫХ СИБИРСКОЙ ПЛАТФОРМЫ

14.00-15.00 — Lunch

15.00-17.00 Conference room holl

POSTER SESSION

Chair – Irina Golubenko, North-East Interdisciplinary Scientific Research Institute n.a. N.A. Shilo FEB RAS (Russia)

- *Antonova N.N., Bendik N.V., Irkutsk State Agricultural Academy (Russia)*
INFORMATION SYSTEM FOR MODELING OF NATURAL DISASTERS CHARACTERISTICS
- ¹*Antsiferova G.A.,* ²*Shevyrev S.L.,* ²*Shevyreva M.Zh.*
¹*Voronezh State University (Russia)*
²*Far Eastern Federal University (Russia)*
REMOTE SENSING FOR ECOLOGICAL STATE RECOGNITION AND ORIGIN RECONSTRUCTION OF RIVERBED LAKES OF VOLGA UPLAND'S WESTERN SLOPE
- *Belousov A.V., Far East Geological Institute FEB RAS (FEGI FEB RAS, Russia)*
“FAR EAST GEOLOGY” DIGITAL REPOSITORY — AN OPEN ACCESS TO DISTRIBUTED ONLINE SCIENTIFIC PUBLICATIONS
- *Bochneva A.A., Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry RAS (Russia)*
CREATION OF EXPERT SYSTEM FOR STUDYING OF PLACER DEPOSITS OF HEAVY MINERALS
- *Bogdanov V.V., Pavlov A.V., Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS (Russia)*
ANALYSIS OF THE DYNAMICS PROBABILISTIC PARAMETERS OF THE SEISMIC REGIME BEFORE STRONG EARTHQUAKES OF KAMCHATKA REGION
- *Bugaev E.G., Fihieva L.M., Scientific and Engineering Centre for Nuclear and Radiation Safety (Russia)*
MONITORING OF NATURAL EXTERNAL IMPACTS IN THE DEPLOYMENT AREA OF NUCLEAR FACILITIES OF RUSSIA
- *Bulov S.V., Ryakhovskiy V.M., Chesalova E.I., Pokhno S.A., Ryakhovskiy A.V., Nikonov R.A., Vernadsky State Geological Museum RAS (SGM RAS, Russia)*
INTERNET-PORTAL «ARTIFICIAL MINERAL DEPOSITS IN RUSSIA»
- *Chebrova A.Yu., Tokarev A.V., Chemarev A.S., Matveenko E.A., Kamchatka Branch of Geophysical Survey RAS (KB GS RAS, Russia)*
JOINT INFORMATION SYSTEM OF SEISMOLOGICAL DATA OF KAMCHATKA BRANCH OF GEOPHYSICAL SURVEY OF RAS IN 2014
- ¹*Chibisova M.V.,* ¹*Rybin A.V.,* ²*Diakov S.E.,* ¹*Degterev A.V.*
¹*Institute of Marine Geology and Geophysics FEB RAS (Russia)*
²*Institute of Automation and Control Processes FEB RAS (Russia)*
VOLCANIC ACTIVITY IN THE KURILE ISLANDS IN 2012 AND 2013 YEARS BY DATA OF SATELLITE MONITORING AND VISUAL OBSERVATIONS
- ^{1,2}*Dolgaya A.A.,* ¹*Vikulin A.V.,* ¹*Akmanova D.R.*
¹*Institute of Volcanology and Seismology FEB RAS (Russia)*
²*Kamchatka State Technical University (Russia)*
ON MODELING OF GEODYNAMIC PROCESS
- *Ivanova Ju., Institute of Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry RAS (Russia)*
RESULTS OF EXPERIMENTAL PREDICTION MINERALIZATION ZONES ON THE EXAMPLE OF MOLODEZNOE POLYMETALLIC DEPOSIT (THE SOUTH URALS)
- *Gavrilov V.A., Buss Yu.Yu., Vlasov Yu.A., Denisenko V.P., Morozova Yu.V., Poltavtseva E.V., Fedoristov O.V., Institute of Volcanology and Seismology FEB RAS (Russia)*
RADIOTELEMETRIC COMPLEX BOREHOLE GEOPHYSICAL MEASUREMENT GRID OF THE PETROPAVLOVSK-KAMCHATSKII GEODYNAMIC RANGE

- *Girina O.A., Melnikov D.V., Manevich A.G., Nuzhdaev A.A., Institute of Volcanology and Seismology FEB RAS (Russia)*
SATELLITE MONITORING OF THE KAMCHATKAN ACTIVE VOLCANOES
- *Girina O.A., Romanova I.M., Institute of Volcanology and Seismology FEB RAS (Russia)*
KAMCHATKAN VOLCANIC ERUPTION RESPONSE TEAM (KVERT) DATA IN INTERNET
- *Golubenko I.S., Litvinenko I.S., North-East Interdisciplinary Scientific Research Institute n.a. N.A. Shilo FEB RAS (Russia)*
ESTIMATE OF RESOURCES GOLD IN TAILINGS FROM PREVIOUSLY EXPLOITED PLACERS IN NORTHEAST RUSSIA BY MEANS OF GIS TECHNOLOGY
- ¹*Gora M.P.,* ¹*Shevko A.Ya.,* ^{1,2}*Bessonova E.P.,* ^{1,3}*Litasov Yu.D.*
¹*V.S. Sobolev Institute of Geology and Mineralogy SB RAS (Russia)*
²*Tomsk State University, (Russia)*
³*Novosibirsk State University (Russia)*
VOLCANIC ROCKS AND HYDROTHERMS OF ITURUP ISLAND, THE KURILES (DATABASE)
- ¹*Gunko M.,* ²*Koldobskaya N.*
¹*Institute of Geography RAS (Russia)*
²*Faculty of Geography MSU (Russia)*
DATA INTEGRATION FROM PPGIS AND SPACE IMAGES FOR THE DETECTION OF UNRECORDED SOURCES OF ANTHROPOGENIC IMPACT ON THE ENVIRONMENT
- ^{1,2}*Gvishiani A.D.,* ^{1,2}*Soloviev A.A.,* ^{1,3}*Rybkina A.A.,* ^{1,2}*Pyaygina O.O.,* ¹*Nikiforov O.V.*
¹*Geophysical Center RAS (Russia)*
²*The Schmidt Institute of Physics of the Earth RAS (Russia)*
³*Federal State Budgetary Institution “Fedorov Institute of Applied Geophysics” (Russia)*
THE ATLAS OF THE EARTH’S MAGNETIC FIELD 1500—2010
- *Kilipko V.A., Gusev G.S., Mezhelovskaia S.V., Mezhelovskiy A.D., Institute of Mineralogy, Geochemistry and Crystal Chemistry of Rare Elements (Russia)*
PALEOGEODYNAMIC RECONSTRUCTIONS OF URAL. MINERAGENIC POTENTIAL EVALUATION BASED ON METALLOGENIC PREDICTION MODELING
- *Kopylova G.N., Boldina S.V., Chubarova E.G., Smirnov A.A., Pantyuhin E.A., Kamchatka Branch of Geophysical Survey RAS (Russia)*
DATAWARE FOR CONTINUOUS OBSERVATIONS OF PHYSICAL-CHEMICAL PARAMETERS OF GROUNDWATER IN WELLS OF KB GS RAS
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16.00-16.30 — *Coffee break*

17.00-18.00 Conference room

CONFERENCE CLOSING

Moderators:

Gordeev E.I., Institute of Volcanology and Seismology FEB RAS (Russia)

Naumova V.V., Far East Geological Institute FEB RAS (Russia)

19.00-23.00 — Gala Dinner at the «Gold Anchor» Restaurant

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