

## ЗАЯВЛЕННЫЕ ДОКЛАДЫ

Последнее обновление 16.06.14

### PLENARY SESSION ПЛЕНАРНАЯ СЕССИЯ

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

*Evgeniy I.Gordeev<sup>1</sup>, Vera V.Naumova<sup>2</sup>, Sergey E.Diakov<sup>3</sup>*

<sup>1</sup>Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

<sup>2</sup>Far East Geological Institute FEB RAS (FEGI FEB RAS, Russia)

<sup>3</sup>Institute of Automation and Control Processes FEB RAS (IACP FEB RAS, Russia)

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

*A.I.Khanchuk*

Far East Geological Institute FEB RAS (FEGI FEB RAS, Russia)

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

*V.A. Levin, M.G. Aleksanina*

Institute of Automation and Control Processes FEB RAS (IACP FEB RAS, Russia)

#### IT INFRASTRUCTURE TO WORK WITH DATA IN FEBRAS INSTRUMENTAL OBSERVATIONS NETWORKS

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

Computing Center FEB RAS (CC FEB RAS, Russia)

#### STATE AND DEVELOPMENT PROSPECTS OF THE INTERNATIONAL PROJECT ONEGEOLOGY IN EURASIA

*M. Komac<sup>1</sup>, O. Petrov<sup>2</sup>, G. Brekhov<sup>2</sup>*

<sup>1</sup>Geological Survey of Slovenia (GeoZS, Slovenia), International project OneGeology

<sup>2</sup>A.P. Karpinsky Russian Geological Research Institute (VSEGEI, Russia),

International project OneGeology

#### GEOMAGNETIC DATA CENTER OF THE RUSSIAN-UKRAINIAN INTERMAGNET SEGMENT

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

Geophysical Center RAS (GC RAS, Russia)

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

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

Space Research Institute RAS (IKI RAS, Russia)

#### GEOLOGICAL INFORMATION AND MATHEMATICAL GEOLOGY TODAY. CHALLENGES

*Yu.N. Malyshev, D.V. Rundqvist, B.V. Sterligov, S.V. Cherkasov*

Vernadsky State Geological Museum of the Russian Academy of Sciences (SGM RAS, Russia)

## **ABOUT MODELS OF DIGITAL LIBRARIES**

*Fedotov A.M.*

Institute Computational Technologies SB RAS (ICT SB RAS, Russia)

## **DISTRIBUTED INFORMATION RESOURCES SB RAS AND TECHNOLOGICAL PLATFORMS ZOOSPACE**

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

Institute of Computational Technologies SB RAS (ICT SB RAS, Russia)

## **ИНФРАСТРУКТУРНЫЙ ПОДХОД ФОРМИРОВАНИЯ РЕГИОНАЛЬНЫХ ПРОСТРАНСТВЕННЫХ РЕСУРСОВ**

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

Институт динамики систем и теории управления СО РАН (ИДСТУ СО РАН, Россия)

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

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

Institute of Computational Technologies SB RAS (ICT SB RAS, Russia)

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

*Stéphane Chevrel*

Georesource Division, Bureau de Recherches Géologiques et Minières (BRGM, France)

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

*V.N Kopylov, N.N. Mikhailov*

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

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

*E.D. Vyazilov<sup>1</sup>, N.N. Mikhaylov<sup>1</sup>, D.A. Melnikov<sup>1</sup>, D.K. Legchikov<sup>1</sup>*

<sup>1</sup>All Russian Research Institute for Hydrometeorological Information

### **Report of the sponsor**

Доклад спонсора

## **GEOGRAPHIC INFORMATION SYSTEMS TRENDS AND OUTLOOK**

*N. Glebova*

Environmental Systems Research Institute in the CIS (ESRI CIS, Russia)

### Секция 1

## **Networking for data acquisition. Development of the systems for remote monitoring of natural phenomena.**

Организация сетей сбора информации. Разработка систем удаленного мониторинга природных объектов.

**MODERN TECHNOLOGICAL SOLUTIONS FOR GEOPHYSICAL SURVEY DURING THE DEPLOYMENT OF INTERMAGNET OBSERVATORIES IN RUSSIA**

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

Geophysical Center RAS (GC RAS, Russia)

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

*A.N. Morozov<sup>1,2</sup>, G.N. Antonovskaya<sup>1</sup>*

<sup>1</sup>Institute of Ecological Problems of the North UrB RAS (IEPN UrB RAS, Russia)

<sup>2</sup>Geophysical Survey RAS (GS RAS, Russia)

**CONTINUOUS TILTMETER OBSERVATIONS IN KAMCHATKA REGION**

*S.S. Serovetnikov<sup>1</sup>, E.Y. Gnitieva<sup>1</sup>, I.F. Abkadyrov<sup>2</sup>, Hiroaki Takahashi<sup>3</sup>*

<sup>1</sup> Kamchatka Branch Geophysical Service RAS (KBGS RAS, Russia)

<sup>2</sup> Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

<sup>3</sup> Hokkaido University (Japan)

**THE KAMCHATKA REGIONAL PERMANENT GNSS NETWORK KB GS RAS. AUTOMATION OF DATA ACQUISITION, PROCESSING AND INTERPRETATION**

*N. N. Titkov*

Kamchatka Branch Geophysical Service RAS (KBGS RAS, Russia)

**RADIOTELEMETRIC COMPLEX BOREHOLE GEOPHYSICAL MEASUREMENT GRID OF THE PETROPAVLOVSK-KAMCHATSKII GEODYNAMIC RANGE**

*V.A.Gavrilov, Yu.Yu.Buss, Yu.A. Vlasov, V.P. Denisenko, Yu.V. Morozova, E.V. Poltavtseva, O.V. Fedoristov*

Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

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

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

Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

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

*I.M. Aleshin<sup>1,2</sup>, V.V. Alpatov<sup>3</sup>, A.E. Vasiliev<sup>3</sup>, S.S. Burguchev<sup>1</sup>, K.I. Kholodkov<sup>1</sup>, F.V. Perederin<sup>1</sup>*

<sup>1</sup>Institute of Physics of the Earth RAS (IPE RAS, Russia)

<sup>2</sup>Geophysical Center RAS (GC RAS, Russia)

<sup>3</sup>Institute of Applied Geophysics Hydrometeorological Center of Russia (IAG ROSHYDROMET, Russia)

## **OF COMPLEX NETWORKS FOR RADIO PULSE DETECTION AND IDENTIFICATION**

*N.V.Cherneva<sup>1</sup>, G.M.Vodinchar<sup>1</sup>, A.N.Mel'nikov<sup>1</sup>, D.V.Sannikov<sup>1</sup>, M.S.Permjakov<sup>2</sup>, E.Yu.Potalova<sup>2</sup>, V.P.Sivokon<sup>1</sup>, G.I.Druzhin<sup>1</sup>, B.M.Shevtsov<sup>1</sup>, R.Holzworth<sup>3</sup>, J.Lichtenberger<sup>4</sup>*

<sup>1</sup>Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS (IKIR FEB RAS, Russia)

<sup>2</sup>V.I. Il'ichev Pacific Oceanological Institute FEB RAS (POI FEB RAS, Russia)

<sup>3</sup>University of Washington (UW, USA)

<sup>4</sup>Eotvos Lorand University (ELTE, Hungary)

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

*S.Y. Khomutov, I.Y. Babakhanov, M.L. Basalaeu, Z.F. Dumbrava, I.N.Poddelsky*  
Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS (IKIR FEB RAS, Russia)

## **DEVELOPMENT OF AUTOMATED SYSTEM OF COMPLEX SEISMODEFORMATION MONITORING OF BURST – HAZARD ROCK MASSIF**

*Andrej Gladyr, Igor Rasskazov, Vladimir Lugovoj, Maksim Rasskazov, Denis Tsoy, Vladimir Miroshnikov*

Mining Institute Far Eastern branch Russian Academy of Sciences (MI FEB RAS, Russia)

## **CONTINUOUS TILTMETER OBSERVATIONS IN KAMCHATKA REGION**

*S.S. Serovetnikov<sup>1</sup>, E.Y. Gnitieva<sup>1</sup>, I.F. Abkadyrov<sup>2</sup>, Hiroaki Takahashi<sup>3</sup>*

<sup>1</sup>Kamchatka Branch Geophysical Service, (KBGS RAS, Russia)

<sup>2</sup>Science Institute of Volcanology and Seismology (IVS FEB RAS, Russia)

<sup>3</sup>Hokkaido University (Japan)

### Секция 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.**

Дистанционное зондирование. Спутниковый мониторинг окружающей среды. Методы анализа спутниковых данных. Сервисы оперативного доступа к спутниковым данным и системам их обработки

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

*Yuei-An Liou<sup>1,2\*</sup> and Hai-Po Chan<sup>1,2</sup>*

<sup>1</sup>National Central University (NCU, Taiwan)

<sup>2</sup>Taiwan Group on Earth Observations (TGEO, Taiwan)

**DECADAL TREND OF GLACIERS AND GLACIAL LAKES IN THE PUMQU RIVER BASIN, XIZANG (TIBET)**

Yuei-An Liou<sup>1,2\*</sup>, Tao Che<sup>3</sup>, and Lin Xiao<sup>3</sup>

<sup>1</sup>National Central University (NCU, Taiwan)

<sup>2</sup>Taiwan Group on Earth Observations (TGEO, Taiwan)

<sup>3</sup>Cold and Arid Regions Environmental and Engineering Research Institute CAS (CAREERI CAS, China).

**REMOTE SENSING FOR ECOLOGICAL STATE RECOGNITION AND ORIGIN RECONSTRUCTION OF RIVERBED LAKES OF VOLGA UPLAND'S WESTERN SLOPE**

*Antsiferova G.A.<sup>1</sup>, Shevyrev S.L.<sup>2</sup>, Shevyreva M.Zh.<sup>2</sup>*

<sup>1</sup>Voronezh State University (VSU, Russia)

<sup>2</sup>Far Eastern Federal University (FEFU, Russia)

**THE PROBLEMS OF VOLCANIC ACTIVITY MONITORING IN THE KURILE ISLANDS**

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

Institute of Marine Geology and Geophysics FEB RAS (IMGG FEB RAS, Russia)

**MULTITEMPORAL REMOTE SENSING DATA FOR LANDSCAPE STRUCTURE RESEARCH IN THE FOREST-STEPPE ZONE**

*E.S. Khazieva*

Lomonosov Moscow State University (MSU, Russia)

**SATELLITE MONITORING OF THE KAMCHATKAN ACTIVE VOLCANOES**

*O.A. Girina, D.V. Melnikov, A.G. Manevich, A.A. Nuzhdaev*

Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

**STUDY OF THE KAMCHATKAN ACTIVE VOLCANOES WITH HELP OF THE INFORMATION SYSTEM VOLSATVIEW**

*E.I. Gordeev<sup>1</sup>, E.A. Lupian<sup>2</sup>, O.A. Girina<sup>1</sup>, V.Yu. Efremov<sup>2</sup>, A.A. Sorokin<sup>3</sup>, D.V. Melnikov<sup>1</sup>, A.G. Manevich<sup>1</sup>, I.M. Romanova<sup>1</sup>, S.P. Korolev<sup>3</sup>, L.S. Kramareva<sup>4</sup>*

<sup>1</sup>Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

<sup>2</sup>Space Research Institute RAS (IKI RAS, Russia)

<sup>3</sup>Computing Center FEB RAS (CC FEB RAS, Russia)

<sup>4</sup>Far Eastern Center of Federal State Institution "Research Center for Space Hydrometeorology Planeta" (FEC FSI Planeta)

**AUTOMATIC MONITORING AND OPERATIVE DELIVERY OF TROPICAL CYCLONES TRACKS DATA**

*I.V. Nedoluzhko<sup>1</sup>, A.S. Eremenko<sup>1</sup>, V.S. Eremenko<sup>2</sup>*

<sup>1</sup>Institute of Automation and Control Processes FEB RAS (IACP FEB RAS, Russia)

<sup>2</sup>Far Eastern Federal University (FEFU, Russia)

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

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

Institute of Geospheres Dynamics RAS (IDG RAS, Russia)

### **SIGNS OF MASSIVE ICE ON SATELLITE IMAGES**

*A.N. Kurchatova<sup>1,2</sup>, A.V. Boytsov<sup>2</sup>, O.L. Opokina<sup>1,2</sup>*

<sup>1</sup> Earth's Cryosphere Institute SB RAS (IEC SB RAS, Russia)

<sup>2</sup> Tyumen State Oil and Gas University (TSOGU, 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**

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

Space Research Institute RAS (IKI RAS, Russia)

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

*M.G. Aleksanina<sup>1</sup>, E.V. Fomin<sup>1</sup>, M.V. Stopkin<sup>2</sup>*

<sup>1</sup> Institute of Automation and Control Processes FEB RAS (IACP FEB RAS, Russia)

<sup>2</sup> Far Eastern Federal University (FEFU, Russia)

### **VOLCANIC ACTIVITY IN THE KURILE ISLANDS IN 2012 AND 2013 YEARS BY DATA OF SATELLITE MONITORING AND VISUAL OBSERVATIONS**

*M.V. Chibisova<sup>1</sup>, A.V. Rybin<sup>1</sup>, S.E. D'yakov<sup>2</sup>, A.V. Degterev<sup>1</sup>*

<sup>1</sup> Institute of Marine Geology and Geophysics FEB RAS (IMGG FEB RAS, Russia)

<sup>2</sup> Institute of Automation and Control Processes FEB RAS (IACP FEB RAS, Russia)

### **METHODS AND SYSTEMS OF THE REMOTE ANALYSES OF THE VOLCANOGENIC SO<sub>2</sub>**

*D.V. Melnikov, S.V. Ushakov*

Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

### **STUDY OF THE 2012-2013 TOLBACHIK FISSURE ERUPTION USING INSAR**

*P.G. Mikhaylyukova<sup>1</sup>, O.V. Tutubalina<sup>1</sup>, E.A. Zelenin<sup>2</sup>, D.V. Melnikov<sup>3</sup>*

<sup>1</sup> Lomonosov Moscow State University (MSU, Russia)

<sup>2</sup> Geological Institute RAS (GIN RAS, Russia)

<sup>3</sup> Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

### **PRELIMINARY RESULTS OF THE SEISMO-FORECAST EXPERIMENT IN JAPAN, ANOMALOUS CHARACTERISTICS AND UNEXPECTED CONCLUSIONS**

*Natyaganov V.L., Doda L.N., Stepanov I.V*

Lomonosov Moscow State University (MSU, Russia)

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

*E.A. Slagoda, A.A. Ermak*

Institute of the Earth Cryosphere SB RAS (IEC SB RAS, Russia)

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

*V.A. Tolpin, I.V. Balashov, I.A. Uvarov, V. Yu. Efremov, A.V. Kashnizky, E.A. Loupian, A.A. Proshin, Yu.S. Krasheninnikova*  
Space Research Institute RAS (IKI 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)**

*A.L. Verkhoturov<sup>1</sup>, G.V. Sokolova<sup>2</sup>, V.Yu. Efremov<sup>3</sup>, V.A. Egorov<sup>3</sup>*

<sup>1</sup> Computing Center FEB RAS (CC FEB RAS)

<sup>2</sup> Institute of the Water and Ecology Problems FEB RAS (IWEF FEB RAS)

<sup>3</sup> Space Research Institute RAS (IKI RAS)

**ИССЛЕДОВАНИЕ ОСТРОВА ТЕПЛА ГОРОДА АПАТИТЫ (МУРМАНСКАЯ ОБЛАСТЬ) ПО ДАННЫМ ПОЛЕВЫХ МЕТЕОРОЛОГИЧЕСКИХ ОБСЛЕДОВАНИЙ И КОСМИЧЕСКИМ СНИМКАМ**

*П.И. Константинов, М.Ю. Грищенко, М.И. Варенцов*

Московский Государственный Университет им. М.В. Ломоносова (МГУ, Россия)

**SATELLITE DATA SYSTEM FOR GEOLOGICAL STUDIES OF THE FAR EAST OF RUSSIA**

*Diakov S.E.*

Far East Geological Institute FEB RAS (FEGI FEB RAS, Russia)

**CALIBRATION OF WEATHER SATELLITE'S THERMAL RADIOMETERS DATA**

*Diakov S.E.*

Institute of Automation and Control Processes FEB RAS (IACP FEB RAS, Russia)

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

*М.Ю. Грищенко<sup>1</sup>, Р.В. Жарков<sup>2</sup>, А.В. Устюхина<sup>1</sup>*

<sup>1</sup> Московский Государственный Университет им. М.В. Ломоносова (МГУ, Россия)

<sup>2</sup> Институт морской геологии и геофизики ДВО РАН (ИМГиГ ДВО РАН, Россия)

**УСПЕХИ И ПЕРСПЕКТИВЫ ГЛОБАЛЬНОГО СПУТНИКОВОГО МОНИТОРИНГА В ОБЕСПЕЧЕНИИ ДАННЫМИ ФУНДАМЕНТАЛЬНЫХ ИССЛЕДОВАНИЙ В ОБЛАСТИ НАУК О ЗЕМЛЕ**

*И.Н. Гансвинд*

Научный геоинформационный центр РАН (НГИЦ РАН, Россия)

**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**

*Merzlyi A.M.<sup>1</sup>, Kuzmin A.K.<sup>1</sup>, Shadrin D.G.<sup>1</sup>, Kozelov B.V.<sup>2</sup>, Lyakhov A.N.<sup>3</sup>, Krilov A.S.<sup>4</sup>, Sitdikov I.T.<sup>4</sup>, Banschikova M.A.<sup>5</sup>, Chuvashov I.N.<sup>5</sup>, Boiko V.A.<sup>6</sup>*

<sup>1</sup>Space Research Institute RAS (IKI RAS, Russia)

<sup>2</sup>Polar Geophysical Institute RAS (PGI RAS, Russia)

<sup>3</sup>Institute of Geosphere Dynamics RAS (IDG RAS, Russia)

<sup>4</sup>Faculty of Computational Mathematics and Cybernetics MSU (CMC MSU, Russia)

<sup>5</sup>Institute of Applied Mathematics and Mechanics TSU (IPMM TSG, Russia)

<sup>6</sup>OAo NPP "Geophysica-Kosmos"(Russia)

**SATELLITE MICROWAVE SENSING OF KAMCHATKA AND SURROUNDING SEAS**

*L. M. Mitnik, M. L. Mitnik*

V.I. Il'ichev Pacific Oceanological Institute FEB RAS (POI FEB RAS, Russian)

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

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

Institute of Computational Technologies SB RAS (ICT SB RAS, Russia)

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

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

Institute of Tectonics and Geophysics (ITiG, FEB RAS, Russia)

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

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

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

**ASSEMBLING THE BASE OF GEOLOGICAL-ENGINEERING DATA AND MAPS FOR KALININGRAD TERRITORY**

*Koff G.L.<sup>1</sup>, Zaigrin I.V.<sup>2</sup>, Kotlov V.F.<sup>2</sup>, Borsukova O.V.<sup>1</sup>*

<sup>1</sup> Institute of Water Problems, Russian Academy of Sciences (IWP, Russia)

<sup>2</sup> Scientific research center "Georisk" (SRC "Georisk" Russia)

**ПРОБЛЕМЫ АВТОМАТИЗАЦИИ МОРФОМЕТРИЧЕСКОГО ДЕШИФРИРОВАНИЯ И МЕТОДЫ ИХ РЕШЕНИЯ**

*Е.П. Крупочкин*

ФГБОУ ВПО «Алтайский государственный университет», Россия

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

*О.С.Сизов<sup>1</sup>, А.В.Абросимов<sup>2</sup>*

<sup>1</sup> Институт Криосферы Земли СО РАН (Тюмень, Россия)

<sup>2</sup> ООО «Компания «СовЗонд» (Москва, Россия)



**CALIBRATION OF WEATHER SATELLITES THERMAL RADIOMETERS DATA**

*S.E. Diakov*

Institute of automation and control processes Feb RAS, Vladivostok

Секция 3

**Geoinformation provisions of fundamental investigations in Earth sciences.**

Геоинформационное обеспечение фундаментальных исследований в области наук о Земле. Интеллектуальные ГИС.

**INTERNET-PORTAL «ARTIFICIAL MINERAL DEPOSITS IN RUSSIA»**

*S.V. Bulov, V.M. Ryakhovskiy, E.I. Chesalova, S.A. Pokhno, A.V. Ryakhovskiy, R.A. Nikonov*

State Geological Museum RAS (SGM RAS, Russia)

**REMOTE SENSING FOR GEOSYSTEM MAPPING**

*M. L. Brazhnikov, T. I. Konovalova*

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

**GEOINFORMATION ENVIRONMENT FOR SOLVING GEOLOGICAL TASKS WITH GIS INTEGRO**

*E.N. Cheremisina, M.Y. Finkelstein*

State Research Center VNIIGeosystem, (SRC VNIIGeosystem, Russia)

**GIS TECHNOLOGY IN CREATION OF SEAMOUNTS CATALOG AND GIS MODEL OF THE Fe-Co-Mn CRUST ON THE SEAMOUNTS (MAGELLAN SEAMOUNT PACIFIC OCEAN)**

*E.I. Chesalova*

State Geological Museum RAS (SGM RAS, Russia)

**BASIN-WIDE ANALYSES OF AMUR RIVER ENVIRONMENTAL PROBLEMS**

*E.G. Egidarev<sup>1</sup>, E.A. Simonov<sup>2</sup>*

<sup>1</sup> Pacific Geographical Institute FEB RAS (PGI FEB RAS, Russia) / WWF Russia

<sup>2</sup> Rivers without Boundaries International Coalition (RwB, China)

**SPECIAL HYDROGEOLOGICAL PARAMETRES MAP PREPARATION WITH GEOINFORMATIONAL TECHNOLOGIES UTILIZATION**

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

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

**INFORMATION SYSTEM OF PRECIOUS METAL DEPOSITS OF THE MAGADAN REGION**

*I.S. Golubenko, N.A. Goryachev*

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

**ESTIMATE OF RESOURCES GOLD IN TAILINGS FROM PREVIOUSLY EXPLOITED PLACERS IN NORTHEAST RUSSIA BY MEANS OF GIS TECHNOLOGY**

*I.S. Golubenko, I.S. Litvinenko*

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

**DATA INTEGRATION FROM PPGIS AND SPACE IMAGES FOR THE DETECTION OF UNRECORDED SOURCES OF ANTHROPOGENIC IMPACT ON THE ENVIRONMENT**

*Gunko M.<sup>1</sup>, Koldobskaya N.<sup>2</sup>*

<sup>1</sup> Institute of Geography RAS (IG RAS, Russia)

<sup>2</sup> Faculty of Geography MSU (FG MSU, Russia)

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

*A.A. Kadochnikov*

Institute of Computational Modeling SB RAS (ICM SB RAS, Russia)

**GEOINFORMATION MODELING AS GRAPHICAL REPRESENTATION OF MINERAGENIC INFORMATION**

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

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

**GEOLOGICAL ENVIRONMENT INFORMATION SYSTEM WITH ACTIVITIES ERROR ANALYSIS FOR MOSCOW**

*Koff G.L., Kotlov V.F., Borsukova O.V., Vöhandu L.K.*

Water Problems Institute RAS (IWP RAS, Russia)

**MAPS OF ECONOMIC LOSS OF TECHNOLOGICAL CHANGES OF GEOLOGICAL ENVIRONMENT IN NORTHERN AND SOUTHERN TERRITORIES OF ST.PETERSBURG PRODUCTION METHOD**

*Koff G.L., Karagodina M.V. Borsukova O.V., Popova O.V.*

Institute of Water Problems RAS (IWP RAS, Russia)

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

*O.V. Lovtskaya<sup>1</sup>, I.N. Rotanova<sup>1,2</sup>*

<sup>1</sup> Institute of Water and Environmental Problems SB RAS (IWEP SB RAS, Russia)

<sup>2</sup> Altai State University (ASU, Russia)

**INFORMATION SYSTEM FOR DATA INTEGRATION ON ACTIVE TECTONICS**

*O.V. Lunina, A.A. Gladkov*

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

**METHOD OF SPHERICAL VISUALIZATION, AS MODERN TECHNOLOGY OF GEOSPATIAL DATA PRESENTATION IN EARTH SCIENCES**

*O.V.Nikiforov<sup>1</sup>, A.I. Rybkina<sup>1,3</sup>, O.O. Pyatygina<sup>1,2</sup>, A.E. Bobkov<sup>1</sup>*

<sup>1</sup>Geophysical Center RAS (GC RAS, Russia)

<sup>2</sup>The Schmidt Institute of Physics of the Earth RAS (IPE RAS, Russia)

<sup>3</sup>Federal State Budgetary Institution "Fedorov Institute of Applied Geophysics" (FSBI "IAG", Russia)

**GEOINFORMATIONAL MATHEMATICAL SIMULATION OF HYDROGEOLOGICAL CONDITIONS OF THE SYRDARYA ARTESIAN BASIN**

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

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

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

*A.A. Soloviev<sup>1,2</sup>, A.D. Gvishiani<sup>1,2</sup>, O.O. Pyaygina<sup>1,2</sup>, A.A. Rybkina<sup>1,3</sup>, O.V. Nikiforov<sup>1</sup>*

<sup>1</sup>Geophysical Center RAS (GC RAS, Russia)

<sup>2</sup>The Schmidt Institute of Physics of the Earth RAS (IPE RAS, Russia)

<sup>3</sup>Federal State Budgetary Institution "Fedorov Institute of Applied Geophysics" (FSBI "IAG", Russia)

**THE ATLAS OF THE EARTH'S MAGNETIC FIELD 1500–2010**

*A.D. Gvishiani<sup>1,2</sup>, A.A. Soloviev<sup>1,2</sup>, A.A. Rybkina<sup>1,3</sup>, O.O. Pyaygina<sup>1,2</sup>, O.V. Nikiforov<sup>1</sup>*

<sup>1</sup>Geophysical Center RAS (GC RAS, Russia)

<sup>2</sup>The Schmidt Institute of Physics of the Earth RAS (IPE RAS, Russia)

<sup>3</sup>Federal State Budgetary Institution "Fedorov Institute of Applied Geophysics" (FSBI "IAG", Russia)

**LARGE-SCALE MAPPING OF POTENTIAL VEGETATION USING TOPOGRAPHY VARIABLES**

*A.N. Yakovleva*

Far Eastern Federal University (FEFU, Russia)

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

*O.E. Yakubailik*

Institute of Computational Modeling SB RAS (ICM SB RAS, Russia)

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

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

State Research Center VNIIGeosystem (SRC VNIIGeosystem, Russia)

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

*Yu.Yu.Yurchenko, S.V.Sokolov*

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

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

*I.I. Kalinnikov<sup>1</sup>, A.V. Mikheeva<sup>2,3</sup>*

<sup>1</sup>The Schmidt Institute of Physics of the Earth RAS (IPE RAS, Russia)

<sup>2</sup>The Institute of Computational Mathematics and Mathematical Geophysics SB RAS (ICM&MG SB RAS, Russia)

<sup>3</sup>Trofimuk Institute of Petroleum-Gas Geology and Geophysics SB RAS (IPGG SB RAS, Russia)

**ОЦЕНКА ИЗМЕНЕНИЯ ОЛЕДЕНЕНИЯ СЕВЕРНОЙ ЧАСТИ СРЕДИННОГО ХРЕБТА, МАССИВА АЛНЕЙ-ЧАШАКОНДЖА И КРОНОЦКОГО ПОЛУОСТРОВА НА КАМЧАТКЕ ВО ВТОРОЙ ПОЛОВИНЕ XX - НАЧАЛЕ XXI ВВ. ПО МАТЕРИАЛАМ КОСМИЧЕСКИХ СЪЁМОК И ИСТОРИЧЕСКИМ ДАННЫМ**

*Муравьев А.Я.*

Институт географии РАН (ИГ РАН, Россия)

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

*V.A. Petrov<sup>1</sup>, A.B. Leksin<sup>1</sup>, V.A. Sankov<sup>2</sup>, V.V. Pogorelov<sup>3</sup>, I.Yu. Rasskazov<sup>4</sup>*

<sup>1</sup>Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry RAS (IGEM RAS, Russia)

<sup>2</sup>Institute of the Earth's Crust, Siberian Division RAS (IZK SO RAS, Russia)

<sup>3</sup>Institute of the Physics of the Earth RAS (IFZ RAS, Russia)

<sup>4</sup>Institute of Mining FEB RAS (IGD FEB RAS, Russia)

**EVOLUTION OF GEODATA PRESENTATION: FROM PAPER MAP TO "VIRTUAL GLOBE", EXAMPLE OF CREATION A GIS "KARYMSHINA SUPERCALDERA (КАМЧАТКА)"**

*A.N. Rogozin, T.V. Leonova, V.L. Leonov*

Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

**ИНФОРМАЦИОННАЯ ТЕХНОЛОГИЯ ПОСТРОЕНИЯ ПРОСТРАНСТВЕННОЙ МОДЕЛИ РАЗЛОМНО-БЛОКОВЫХ СТРУКТУР НА ПРИМЕРЕ БАЙКАЛЬСКОЙ РИФТОВОЙ ЗОНЫ**

*И.П.Стрельченко*

Национальный исследовательский Иркутский государственный технический университет (НИ ИрГТУ, Россия)

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

*Alexander Fridman*

Institute for Informatics and Mathematical Modelling KSC RAS (IIMM KSC RAS, Russia)

**РАЗВИТИЕ ИНФОРМАЦИОННОЙ ОСНОВЫ КОМПЛЕКСНЫХ ИССЛЕДОВАНИЙ КРИОСФЕРЫ**

*Т.Е. Хромова*

Институт географии РАН (ИГ РАН, Россия)

**SPECIAL HYDROGEOLOGICAL PARAMETRES MAP PREPARATION WITH GEOINFORMATIONAL TECHNOLOGIES UTILIZATION.**

*Zh.Erikuly<sup>1</sup>, V.Yu.Panichkin<sup>1</sup>, O.L.Miroshnichenko<sup>1</sup>*

<sup>1</sup> Institute of Hydrogeology and Geoecology named after U.M.Akhmedsafin (Kazakhstan)

**ESTIMATE OF RESOURCES GOLD IN TAILINGS FROM PREVIOUSLY EXPLOITED PLACERS IN NORTHEAST RUSSIA BY MEANS OF GIS TECHNOLOGY**

*I.S. Golubenko<sup>1</sup>, I.S. Litvinenko<sup>1</sup>*

<sup>1</sup> North-East Interdisciplinary Scientific Research Institute n.a. N.A. Shilo, Far East Branch, Russian Academy of Sciences (NEISRI FEB RAS, Russia)

**GIS MODELING AND REGIONAL FORECASTING OF ORE DEPOSITS**

*V.I. Starostin<sup>1</sup>, V.G.Gitis<sup>1</sup>*

<sup>1</sup> Lomonosov Moscow State University (MSU, Russia)

Секция 4.

**Mathematic modeling of natural processes**

Математическое моделирование природных процессов

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

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

Institute of Numerical Mathematics RAS (INM RAS, Russia)

**ANALYSIS OF THE DYNAMICS PROBABILISTIC PARAMETERS OF THE SEISMIC REGIME BEFORE STRONG EARTHQUAKES OF KAMCHATKA REGION**

*V.V. Bogdanov, A.V. Pavlov*

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

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

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

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

**FORECAST STATUS OF ARCTIC SEA ICE EXTENT**

*A.N.Chetyrbotsky<sup>1</sup>, V.A.Chetyrbotsky<sup>2</sup>*

<sup>1</sup>Far East Geological Institute FEB RAS (FEGI FEB RAS, Russia)

<sup>2</sup>Lomonosov Moscow State University (MSU, Russia)

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

*A.A. Dolgayaya<sup>1, 2</sup>, A.V. Vikulin<sup>1</sup>, D.R. Akmanova<sup>1</sup>*

<sup>1</sup> Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

<sup>2</sup> Kamchatka State Technical University (KamchatSTU, Russia)

**ON MODELING OF GEODYNAMIC PROCESS**

*A.A. Dolgaya<sup>1,2</sup>, A.V. Vikulin<sup>1</sup>, D.R. Akmanova<sup>1</sup>*

<sup>1</sup> Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

<sup>2</sup> Kamchatka State Technical University (KamchatSTU, Russia)

**GENERALIZATION OF SPATIAL GEOCHEMICAL INFORMATION USING CLUSTERING**

*A.A. Doroshkov*

A.P. Vinogradov Institute of Geochemistry (IGS SB RAS, Russia)

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

*N.V. Fetisova (Glushkova)<sup>1,2</sup>, O.V. Mandrikova<sup>1,2</sup>*

<sup>1</sup>Institute of Cosmophysical Research and Radio Wave Propagation (IKIR FEB RAS , Russia)

<sup>2</sup>Kamchatka State Technical University (KamchatSTU, Russia)

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

*T.T. Gorbacheva, S.I. Mazukhina, S.V.Ivanov*

Institute Industrial Ecology Problems of the North KSC RAS (INEP KSC RAS, Russia)

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

*Kh.Kh. Imomnazarov, A.A. Mikhailov*

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

**RESULTS OF EXPERIMENTAL PREDICTION MINERALIZATION ZONES ON THE EXAMPLE OF MOLODEZNOE POLYMETALLIC DEPOSIT (THE SOUTH URALS)**

*Julia Ivanova*

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

**MODELING OF THE PROCESS THE METHANE BUBBLE SURFACING FROM THE OCEAN FLOOR**

*S.R. Kildibaeva*

Sterlitamak Branch of Bashkir State University (SB BSU, Russia)

**ANALYSIS OF DAMAGES ROLE OF NATURAL AND ANTHROPOGENIC FACTORS WITH THE INFORMATION SYSTEM "THE IMPACT OF SPITAK EARTHQUAKE"**

*Koff G.L., Kotlov V.F., Borsukova O.V., Vöhandu L.K.*

Water Problems Institute RAS(IWP RAS, Russia)

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

*Nadejda Komendantova*

Risk, Policy and Vulnerability Program, International Institute for Applied Systems Analysis (IIASA, Austria)

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

*B.A. Kulik<sup>1</sup>, A.Ya. Fridman<sup>2</sup>*

<sup>1</sup> Institute of Problems in Mechanical Engineering RAS (IPME RAS, Russia)

<sup>2</sup> Institute for Informatics and Mathematical Modelling KSC RAS (IIMM KSC RAS, Russia)

**CALCULATION AND INFORMATION TECHNOLOGIES TO SOLVE TSUNAMI MONITORING PROBLEMS**

*M.M. Lavrentiev<sup>1</sup>, An.G. Marchuk<sup>2</sup>, K.V. Simonov<sup>3</sup>, A.A. Romanenko<sup>1</sup>, M.A. Kurako<sup>4</sup>*

<sup>1</sup>Novosibirsk State University (NSU, Russia)

<sup>2</sup>Institute of Computational Mathematics and Mathematical Geophysics SB RAS (ICMMG SB RAS, Russia)

<sup>3</sup>Institute of Computational Modeling SB RAS (ICM SB RAS, Russia)

<sup>4</sup>Siberian Federal University (SFU, Russia)

**THE INTEGRATED DEEP MODEL AND ORE-FORMING SYSTEMS OF THE PECHENGA DISTRICT (FENNOSCANDIAN SHIELD)**

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

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

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

*K.B. Moiseenko<sup>1</sup>, N.A. Malik<sup>2</sup>*

<sup>1</sup> Obukhov Institute of Atmospheric Physics RAS (IAP RAS, Russia)

<sup>2</sup> Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

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

*Natyaganov V.L., Nechayev A.M.*

Lomonosov Moscow State University (MSU, Russia)

**MAGMA CHAMBER DYNAMICS UNDER THE SEISMIC ACTION**

*Yu.V. Perepechko<sup>1</sup>, K.E. Sorokin<sup>1</sup>, Kh.Kh. Imomnazarov<sup>2</sup>*

<sup>1</sup> Institute of Geology and Mineralogy SB RAS (IGM SB RAS, Russia)

<sup>2</sup> Institute of Computational Mathematics and Mathematical Geophysics SB RAS (ICMMG SB RAS, Russia)

**SINGLE-PURPOSE PROCESSING METHODS OF THE GEOPHYSICAL MONITORING DATA**

*E.V. Poltavtseva, Yu.Yu. Buss*

Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

**DENDROGEOMORPHIC RECONSTRUCTION OF LAHAR EVENTS AT KLYUCHEVSKOY AND SHIVELUCH VOLCANOES (KAMCHATKA PENINSULA, RUSSIA)**

*E.Salaorni<sup>1</sup>, A.Sorg<sup>1</sup>, M. Stoffel<sup>1</sup>, S.Chernomorets<sup>2</sup>, O.Tutubalina<sup>2</sup>*

<sup>1</sup>Dendrolab.ch, Institute of Geological Sciences, University of Berne (Switzerland)

<sup>2</sup>Faculty of Geography Lomonosov Moscow State University (FG MSU, Russia)

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

*A.A. Soloviev, Sh.R. Bogoutdinov, S.M. Agayan*  
Geophysical Center RAS (GC RAS, Russia)

**AUTOMATIC SYSTEM FOR CALCULATING THE INDEX OF GEOMAGNETIC ACTIVITY K.**

*I.S. Solovyev<sup>1,2</sup>, O.V. Mandrikova<sup>1,2</sup>, S.E. Smirnov<sup>1</sup>*

<sup>1</sup>Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS (IKIR FEB RAS, Russia)

<sup>2</sup>Kamchatka State Technical University (KamchatGTU, Russia)

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

*N.V. Vaganova*

Institute of Ecological Problems of the North UB RAS (IEPN UB RAS, Russia)

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

*P.V. Voropaev, V.A. Saltykov*

Kamchatkan Branch Geophysical Survey RAS (KB GS RAS, Russia)

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

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

Institute of Numerical Mathematics RAS (INM RAS, Russia)

**Analysis of geomagnetic data and cosmic ray variations in periods of magnetic perturbations**

*Zalyaev T.L.<sup>1</sup>, Mandrikova O.V.<sup>1,2</sup>, Solovev I.S.<sup>1,2</sup>.*

<sup>1</sup>Institute of Cosmophysical Researches and Radio Wave Propagation FEB RAS (IKIR FEB RAS, Russia)

<sup>2</sup>Kamchatka State Technical University (KamchatGTU, Russia)

**NEURAL NETWORK FOR GEOMAGNETIC DATA ANALYSIS**

*E.A. Zhizhikina<sup>1,2</sup>, O.V. Mandrikova<sup>1,2</sup>*

<sup>1</sup>Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS (IKIR FEB RAS, Russia)

<sup>2</sup>Kamchatka State Technical University (KamchatGTU, Russia)

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

*А. А. Архипова*

Московский государственный университет имени М. В. Ломоносова (МГУ, Россия)

Институт океанологии РАН (ИО РАН, Россия)



**MATHEMATICAL MODELING IN TSUNAMI HAZARDS ASSESSMENT: PROBLEMS AND PERSPECTIVES**

*V.K.Gusiakov<sup>1</sup>, L.B.Chubarov<sup>2</sup>, S.A.Beisel<sup>2</sup>*

<sup>1</sup> Institute of Computational Mathematics and Mathematical Geophysics SB RAS (ICMMG SB RAS, Russia)

<sup>2</sup> Institute of Computational Technologies SB RAS (ICT SB RAS, Russia)

**GEOFLUIDS OF AVACHINSKY-KORYAKSKY VOLCANOGENIC BASIN, KAMCHATKA, RUSSIA**

*Alexey Kiryukhin<sup>1</sup>, Yuri Manukhin<sup>1</sup>, Sergey Fedotov<sup>1</sup>, Vasily Lavrushin<sup>2</sup>, Tatiana Rychkova<sup>1</sup>, Gennady Ryabinin<sup>3</sup>, Andrey Polyakov<sup>1</sup>, Pavel Voronin<sup>1</sup>*

<sup>1</sup> The Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

<sup>2</sup> Geological Institute RAS (GIN RAS, Russia)

<sup>3</sup> Kamchatka Branch of Geophysical Survey RAS (KB GS RAS, Russia)

**ИСПОЛЬЗОВАНИЕ МАТЕМАТИЧЕСКОГО МОДЕЛИРОВАНИЯ СЕЙСМИЧЕСКИХ ВОЛНОВЫХ ПОЛЕЙ ДЛЯ ИЗУЧЕНИЯ СТРАТИГРАФИЧЕСКОГО ПОЛОЖЕНИЯ ТРАППОВЫХ ИНТРУЗИЙ В ОСАДОЧНОМ ЧЕХЛЕ ЮГА СИБИРСКОЙ ПЛАТФОРМЫ**

*В.В. Лыкова*

Национальный Исследовательский Иркутский Государственный Технический Университет (НИИГТУ, Россия)

ОАО «Иркутскгеофизика» (Россия)

**ФОРМАТ TCTISE - АЛЬТЕРНАТИВНЫЙ ПОДХОД К СЖАТИЮ И ХРАНЕНИЮ ИСХОДНЫХ ВРЕМЕННЫХ РЯДОВ**

*Е.Р. Махмудов, К.А. Яблочкина*

Камчатский филиал Геофизической службы РАН (КФ ГС РАН, Россия)

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

*А.Н. Шулюпин<sup>1</sup>, И.Ю. Рассказов<sup>1</sup>, А.А. Чермошенцева<sup>2</sup>,*

<sup>1</sup> Институт горного дела ДВО РАН (ИГД ДВО РАН, Россия)

<sup>2</sup> Камчатский государственный технический университет (КамчатГТУ, Россия)

**ИНТЕРВАЛЬНОЕ РАСПОЗНАВАНИЕ ОБРАЗОВ И НЕЧЕТКИЕ МНОЖЕСТВА**

*Цициашвили Г.Ш.*

Институт Прикладной Математики ДВО РАН (ИПМ ДВО РАН, Россия)

**ТЕПЛООБМЕН В НЕФТЕГАЗОНОСНОМ ПЛАСТЕ С ВНЕДРЁННОЙ ЦИЛИНДРИЧЕСКОЙ СКВАЖИНОЙ**

*М.Т. Захидов*

Отделение Мировой Базы Данных для Образования и Научного Обмена (ЭДНЕС, Узбекистан, СНГ)

**THEORETICAL AND PRACTICAL ISSUES OF ENGINEERING OF VOLCANOLOGICAL KNOWLEDGE**

*Cyril A. Pshenichny*

Geognosis Project, Intellectual Systems Laboratory,  
National Research University of Information Technologies, Mechanics and Optics  
(ITMO; St. Petersburg, Russia)

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

*P.V. Voropaev, V.A. Saltykov*

Kamchatkan branch geophysical survey RAS (KB GS RAS, Russia)

**СОВЕРШЕНСТВОВАНИЕ МЕТОДИКИ ОЦЕНКИ ГЕОМЕХАНИЧЕСКОГО СОСТОЯНИЯ ГЕОСРЕДЫ ПО ДАННЫМ ГЕОАКУСТИЧЕСКОГО МОНИТОРИНГА**

*П.А. Аникин<sup>1</sup>, И.Ю. Рассказов<sup>1</sup>, Г.Ш. Цициашвили<sup>2</sup>*

<sup>1</sup>Институт горного дела Дальневосточное отделение Российской Академии наук (ИГД ДВО РАН, Россия)

<sup>2</sup>Институт прикладной математики Дальневосточного отделения Российской Академии наук (ИПМ ДВО РАН, Россия)

**ФОРМАТ TCTISE - АЛЬТЕРНАТИВНЫЙ ПОДХОД К СЖАТИЮ И ХРАНЕНИЮ ИСХОДНЫХ ВРЕМЕННЫХ РЯДОВ**

*Е.Р. Махмудов<sup>1</sup>, К.А. Яблочкина<sup>1</sup>*

<sup>1</sup> Камчатский филиал Геофизической службы РАН

Секция 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.**

Открытый доступ как современная практика научной коммуникации. Электронные библиотеки и коллекции. Интеграция территориально распределенных разнородных научных данных в области наук о Земле. Инфраструктура пространственных данных. Проблемы интеграции пространственных данных, сервисов и приложений.

**К ВОПРОСУ О ВЗАИМОДЕЙСТВИИ ГЕОЛОГИЧЕСКИХ ИНФОРМАЦИОННЫХ СИСТЕМ**

*Г.В. Брехов, В.В. Снежко, Н.И. Березюк*

Всероссийский научно-исследовательский институт (ВСЕГЕИ, Россия)

**TECHNOLOGY OF GEOGRAPHIC DATA EXTRACTION FROM TEXT DOCUMENTS**

*V.B.Barakhnin<sup>1,2</sup>, A.M.Fedotov<sup>1,2</sup>, D.M.Skachkov<sup>1</sup>, A.A.Solovyov<sup>2</sup>, O.L.Zhizhimov<sup>1</sup>*

<sup>1</sup> The Institute of Computational Technologies SB RAS (ICT SB RAS, Russia)

<sup>2</sup> Novosibirsk State University (NSU, Russia)

**“FAR EAST GEOLOGY” DIGITAL REPOSITORY - AN OPEN ACCESS TO DISTRIBUTED ONLINE SCIENTIFIC PUBLICATIONS**

*Belousov A.V.*

Far East Geological Institute FEB RAS (FEGI FEB RAS, Russia)

**Modern technologies for development of the information infrastructure supporting scientific geological investigations in the Russian Far East**

*Naumova V.V., Goryachev I.N., Dyakov S.V., Belousov A.B., Platonov K.A.*

Far East Geological Institute FEB RAS (FEGI FEB RAS, Russia)

**INFORMATION FLOW DYNAMICS OF SCIENTIFIC DISCIPLINES IN THE EARTH SCIENCES**

*A.A. Nabiullin<sup>1,2</sup>*

<sup>1</sup> Central Scientific Library FEB RAS (CNB RAS, Russia)

<sup>2</sup> V.I. Il'ichev Pacific Oceanological Institute FEB RAS (POI FEB RAS, Russian)

**DEVELOPMENT OF CENTER OF QUANTITATIVE DATA ON GEOLOGY OF THE RUSSIAN FAR EAST**

*Kirill A. Platonov*

Far East Geological Institute FEB RAS (FEGI FEB RAS, Russia)

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

*Yu.V. Leonova*

Institute Computational Technologies SB RAS (ICT SB RAS, Russia)

**GIS-PORTAL “GEOLOGY AND GEOPHYSICS OF RUSSIAN FAR EAST”: INTEGRATION OF “GHOST” SPATIAL DATA**

*Ivan N. Goryachev*

JSC "Magadangeologiya" (Russia)

**IMPLEMENTATION OF GEOPROCESSING SERVICE FOR THE PACIFIC INSTITUTE OF GEOGRAPHY SDI**

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

Pacific Institute of Geography FEB RAS (PGI FEB RAS, Russia)

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

*I.M. Romanova*

Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

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

*A.V. Koshkarev<sup>1</sup>, I.N. Rotanova<sup>2</sup>*

<sup>1</sup> Institute of Geography RAS (IG RAS, Russia)

<sup>2</sup> Altai State University (ASU, Russia), Institute of Water and Environmental Problems SB RAS (IWEP SB RAS, Russia)

**AN EXPERIENCE OF DEPLOYMENT TOOLS FOR ACCESS AND EDITING SPATIAL DATA USING OPEN STANDARDS ON EXAMPLE OF A GEOPORTAL OF PACIFIC GEOGRAPHIC INSTITUTE FEB RAS**

*S.S Pashinskiy*

Pacific Institute of Geography FEB RAS (PGI FEB RAS, 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**

*Victor Snezhko, Grigory Brekhov, Nikolay.Berezyk, Eugene Kovalenko*

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

**ПРИРОДОПОЛЬЗОВАТЕЛЬСКОЙ ДЕЯТЕЛЬНОСТИ И НАУЧНЫХ ИССЛЕДОВАНИЙ В ДВ РЕГИОНЕ РОССИИ**

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

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

Секция 6

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

Виртуальные научные среды и лаборатории. Унифицированные коммуникации. Облачные технологии. Корпоративные порталы. Опыт построения и проблемы. Высокоскоростные вычисления

**LANGUAGE SUPPORT FOR COMPUTATIONAL CLUSTER JOB TEMPLATE DESCRIPTION**

*D.I. Kharitonov, R.V. Parakhin*

Institute of Automation and Control Processes FEB RAS (IACP FERAS, Russia)

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

*E.A. Golenkov<sup>1</sup>, D.I. Kharitonov<sup>1</sup>, G.V. Tarasov<sup>1</sup>, A.E. Alatin<sup>2</sup>*

<sup>1</sup> Institute of Automation and Control Processes FEB RAS (IACP FEB RAS, Russia)

<sup>2</sup> Far Eastern Federal University (FEFU, Russia)

**CLOUD WEB SERVICE EVALUATION OF EARTHQUAKE INTENSITY "SEISMOSHAKE"**

*S.E. Popov, R.Y. Zamaraev*

Institute of Computational Technologies SB RAS (ICT SB RAS, Russia)

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

*V.N.Oparin<sup>1</sup>, A.V.Leontev<sup>1</sup>, V.P.Potapov<sup>2</sup>*

<sup>1</sup>Institute of mining SB RAS (MI SB RAS, Russia)

<sup>2</sup>Institute of Computational Technologies SB RAS (ICT SB RAS, Russia)

Секция 7

**Thematic Data Base, Information Systems. Subject-oriented systems.**

Тематические БД, ИС. Предметно-ориентированные системы.

**KAMCHATKAN VOLCANIC ERUPTION RESPONSE TEAM (KVERT)  
DATA IN INTERNET**

*O.A. Girina and I.M. Romanova*

Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

**VOLCANIC ROCKS AND HYDROTHERMS OF ITURUP ISLAND, THE  
KURILES (DATABASE)**

*M.P.Gora<sup>1</sup>, A.Ya.Shevko<sup>1</sup>, E.P.Bessonova<sup>1,2</sup>, Yu.D.Litasov<sup>1,3</sup>*

<sup>1</sup>V.S.Sobolev Institute of Geology and Mineralogy SB RAS (IGM SB RAS, Russia)

<sup>2</sup>Tomsk State University, (TSU, Russia)

<sup>3</sup>Novosibirsk State University (NSU, Russia)

**CREATION OF EXPERT SYSTEM FOR STUDYING OF PLACER DEPOSITS  
OF HEAVY MINERALS**

*A.A. Bochneva*

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

**WEB-ORIENTED INFORMATION SYSTEM «ACTIVE SEISMOLOGY»**

*L.P. Braginskaya, V.V. Kovalevsky, A.P. Grigoruk*

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

**JOINT INFORMATION SYSTEM OF SEISMOLOGICAL DATA OF  
KAMCHATKA BRANCH OF GEOPHYSICAL SURVEY RAS IN 2014**

*A.Yu. Chebrova, A.V. Tokarev, A.S. Chemarev; E.A. Matveenko*

Kamchatka Branch of Geophysical Survey RAS (KB GS RAS, Russia)

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

*M.V. Zadorozhnyy, A.I.Lysov*

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

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

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

Kamchatka Branch of Geophysical Survey RAS (KB GS RAS, Russia)

**RESTFUL WEB SERVICE FOR KAMCHATKA VOLCANOES  
OBSERVATIONS**

*A.A. Sorokin<sup>1</sup>, S.P. Korolev<sup>1</sup>, I.M. Romanova<sup>2</sup>, O.A. Girina<sup>2</sup>, I.P. Urmanov<sup>1</sup>*

<sup>1</sup>Computing Center FEB RAS (CC FEB RAS, Russia)

<sup>2</sup>Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

**AUTOMATED REALTIME SYSTEM IN NORTHERN SAKHALIN  
DESIGNED FOR BOTH INDUCED AND NATURAL SEISMICITY  
MONITORING**

*A.A. Stepnov, A.V.Konovalov, A.V.Gavrilov, K.A. Manaychev*

Institute of Marine Geology and Geophysics FEB RAS (IMGG FEB RAS, Russia)

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

*V.N. Chebrov, G.N. Kopylova, Yu.A. Kugaenko, E.A. Matveenko, V.A. Saltykov, S.L. Senyukov, V.A. Sergeev, V.A. Poletaev P.P. Firstov, A.Yu. Chebrova, D.V. Chebrov, V.V. Yashchuk*

Kamchatka Branch of the Geophysical Survey of RAS(KB GS RAS, Russia)

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

*Xu Xuechun<sup>1</sup>, Zheng Changqing<sup>1</sup>, Xu Bo<sup>2</sup>*

<sup>1</sup> College of Earth Sciences Jilin University (CES JU, China)

<sup>2</sup> Center for Northeast Asia Studies Jilin University (CNEAS JU, China)

**REGIONAL 3D GEOLOGICAL MODLING SYSTEM**

*Xue Linfu*

College of Earth Sciences Jilin University (CES JU, China)

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

*E.A.Zelenin<sup>1</sup>, V.V.Ponomareva<sup>2</sup>, P.G.Mikhaylyukova<sup>3</sup>*

<sup>1</sup> Geological Institute RAS (GIN RAS, Russia)

<sup>2</sup> Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

<sup>3</sup> Lomonosov Moscow State University (MSU, Russia)

**VISUALIZATION OF DISPLACEMENT IN THE ROCK MASS**

*P.I. Zuev*

Institute of mining UB RAS (IM UB RAS, Russia)

**INFORMATION SYSTEM FOR MODELING OF NATURAL DISASTERS  
CHARACTERISTICS**

*N.N. Antonova<sup>1</sup>, N.V. Bendik*

Irkutsk State Agricultural Academy (ISAA, Russia)

**БАЗА ДАННЫХ СИСТЕМЫ «ИЗВЕРЖЕНИЯ ВУЛКАНОВ КАМЧАТКИ  
И КУРИЛЬСКИХ ОСТРОВОВ»**

*Близнецов В.Е.*

Камчатский филиал Геофизической службы РАН (КФ ГС РАН, Россия)

**ИНФОРМАЦИОННЫЕ РЕСУРСЫ КФ ГС РАН ДЛЯ  
ФУНДАМЕНТАЛЬНЫХ И ПРИКЛАДНЫХ ИССЛЕДОВАНИЙ В  
ОБЛАСТИ НАУК О ЗЕМЛЕ**

*В.Н. Чебров, Г.Н. Копылова, Ю.А. Кугаенко, Е.А. Матвеевко, В.А. Салтыков, С.Л. Сенюков, В.А. Сергеев, В.А. Полетаев, П.П. Фирстов, А.Ю. Чеброва, Д.В. Чебров, В.В. Ящук*

Камчатский филиал Геофизической службы РАН (КФ ГС РАН, Россия)

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

*A.V. Mikheeva<sup>1,2</sup>, P.G. Dyadkov<sup>2</sup>*

<sup>1</sup> The Institute of Computational Mathematics and Mathematical Geophysics SB RAS (ICM&MG SB RAS, Russia)

<sup>2</sup> The Trofimuk Institute of Petroleum Geology and Geophysics SB RAS (IPGG SB RAS, Russia)

**DATAWARE FOR CONTINUOUS OBSERVATIONS OF PHYSICAL-CHEMICAL PARAMETERS OF GROUNDWATER IN WELLS OF KB GS RAS**

*G.N. Kopylova, S.V. Boldina, E.G. Chubarova, A.A. Smirnov, E.A. Pantyuhin*  
Kamchatka Branch Geophysical Survey RAS (KB GS RAS, Russia)

**ON A CONCEPT OF THE KNOWLEDGE DATABASE FOR A GEOLOGICAL ARCHIVE**

*Oleg Mironov*

Sergeev Institute of Environmental Geoscience RAS (IEG RAS, Russia)

**MODERN INFORMATION TECHNOLOGY FOR MONITORING INDUSTRIAL INDUCED WATER**

*E.L. Schastlivtsev, S.G. Pushkin, N.I. Yukina*

Kemerovo Branch of Institute of Computational Technologies SB RAS (ICT SB RAS, Russia)

**ИНФОРМАЦИОННАЯ СИСТЕМА ДЛЯ ПОСТРОЕНИЯ ПАЛИНОСТРАТИГРАФИЧЕСКОЙ БАЗЫ ДАННЫХ.**

*М.А. Шевелев*

Институт геологии УрО РАН (ИГ УрО РАН, Россия)

**EXPERIMENT ON CREATING OF DIGITAL BATHYMETRICAL MODELS OF CRATER RESERVOIRS OF THE KURILE ISLAND**

*D.N.Kozlov*

Institute of Marine Geology and Geophysics FEB RAS (IMGG FEB RAS, Russia)

**HEAT VISION SURVEY OF ACTIVE VOLCANOES IN THE KURILE ISLANDS**

*D.N.Kozlov, R.V.Zharkov*

Institute of Marine Geology and Geophysics FEB RAS (IMGG FEB RAS, Russia)

**ANCIENT POMPEII: A VOLCANIC LEGACY**

*Franco Pirajno*

Centre for Exploration Targeting UWA (CET UWA, Australia)

**THE ERONGO VOLCANO-PLUTONIC COMPLEX, NAMIBIA, INTRUSIVE AND VOLCANIC HISTORY AND ASSOCIATED MINERALISATION**

*Franco Pirajno*

Centre for Exploration Targeting UWA (CET UWA, Australia)

**AERIAL PHOTOGRAMMETRIC MONITORING OF THE ACTIVE VOLCANOES OF KAMCHATKA**

*I.Yu. Svirid<sup>1,2</sup>, V.N. Dvigalo<sup>1</sup>, A.V. Shevchenko<sup>1,2</sup>*

<sup>1</sup> The Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

<sup>2</sup> Vitus Bering Kamchatka State University (KamSU Vitus Bering, Russia)

**PALEOGEODYNAMIC RECONSTRUCTIONS OF URAL. MINERAGENIC POTENTIAL EVALUATION BASED ON METALLOGENIC PREDICTION MODELING**

*V.A. Kilipko, G.S. Gusev, S.V. Mezhelovskaia, A.D. Mezhelovskiy*

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

**MONITORING OF NATURAL EXTERNAL IMPACTS IN THE DEPLOYMENT AREA OF NUCLEAR FACILITIES OF RUSSIA**

*Evgeny G. Bugaev, Luiza M. Fihieva*

Scientific and Engineering Centre for Nuclear and Radiation Safety (SEC NRS, Russia)

**GEOPHYSICAL RESEARCHES OF WELLS ON GEOTHERMAL FIELDS OF KAMCHATKA**

*Pavlova V.Yu. <sup>1</sup>, Lazebny V.V. <sup>2</sup>*

<sup>1</sup> The Institute of Volcanology and Seismology FEB RAS (IVS FEB RAS, Russia)

<sup>2</sup> OOO "GFE" (Russia)

**INTERNET-PORTAL FOR FUNDAMENTAL RESEARCH IN GLOBAL METALLOGENY**

*S.A. Pokhno, A.V. Tkachev, S.V. Bulov*

State Geological Museum RAS (SGM RAS, Russia)

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

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

Institute of Computational Technologies of the Siberian Branch of the Russian Academy of Sciences (ICT SB RAS, Russia)

**Современные информационные технологии в сфере мониторинга техноприродных вод**

*Е.Л. Счастливцев, С.Г. Пушкин, Н.И. Юкина*

Кемеровский филиал Института вычислительных технологий СО РАН (ИВТ СО РАН, Россия)