

## ЗАЯВЛЕННЫЕ ДОКЛАДЫ

Последнее обновление 25.06.14

### 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>*

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#### 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*

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#### 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

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

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

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#### 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 RAS (SGM RAS, Russia)

**A MODEL OF DIGITAL LIBRARY TO SUPPORT RESEARCH ACTIVITIES**

*Fedotov A.M., Barakhin V.B., Fedotova O.A., Zhizhimov O.L.*  
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**DISTRIBUTED INFORMATION RESOURCES SB RAS AND TECHNOLOGICAL PLATFORMS ZOOSPACE**

*O.L. Zhizhimov, V.S. Nikultsev, A.M. Fedotov, Yu.I. Shokin*  
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**ИНФРАСТРУКТУРНЫЙ ПОДХОД ФОРМИРОВАНИЯ РЕГИОНАЛЬНЫХ ПРОСТРАНСТВЕННЫХ РЕСУРСОВ**

*Г.М. Ружников, И.В. Бычков, Р.К.Фёдоров, А.Е. Хмельнов*  
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**APPLICATION OF REMOTE SENSING FOR ASSESSMENT OF ECOLOGICAL STATE MINING AREAS IN WINTER TIME**

*V.P. Potapov, O.L. Giniyatullina, N.V. Andreeva*  
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**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*  
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**QUESTIONS OF REALIZATION OF THE UNIFIED STATE SYSTEM OF INFORMATION FOR WORLD OCEANS**

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**Report of the sponsor**

Доклад спонсора

**VIDEO COLLABORATION – STAY CONNECTED ANY PLACE, ANY TIME, ANY DEVICE**

*Timofeeva Marina*  
Polycom (CIS , Russia)

**GEOGRAPHIC INFORMATION SYSTEMS TRENDS AND OUTLOOK**

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

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**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>*

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

*N. N. Titkov*

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**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*

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**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*

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**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>*

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**DEVELOPMENT 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.Permyakov<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>*

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**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*  
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**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*

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

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

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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)

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

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

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**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>

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<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>*

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

*E.S. Khazieva*

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**SATELLITE MONITORING OF THE KAMCHATKAN ACTIVE VOLCANOES**

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

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<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>*

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**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*

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**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>*

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**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*  
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**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>*

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

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

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**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>*

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

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

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

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

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**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. Krashenninnikova*

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**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>*

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

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

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

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

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

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

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**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>, Banshikova M.A.<sup>5</sup>, Chuvashov I.N.<sup>5</sup>, Boiko V.A.<sup>6</sup>*

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

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

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

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

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

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

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

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

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**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>*

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

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**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. Абрисимов<sup>2</sup>*

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

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

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*

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**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*

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**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*

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

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

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

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

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

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

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

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

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

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

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**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.*

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

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

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

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

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**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>*

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**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>*

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

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

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

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**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*

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

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**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**

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**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>*

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

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

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

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**РАЗВИТИЕ ИНФОРМАЦИОННОЙ ОСНОВЫ КОМПЛЕКСНЫХ ИССЛЕДОВАНИЙ КРИОСФЕРЫ**

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

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

*A.V. Parshin<sup>1,2</sup>, L.M. Filimonova<sup>1</sup>, S.N. Prosekin<sup>2</sup>*

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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*

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

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

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

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

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**FORECAST STATUS OF ARCTIC SEA ICE EXTENT**

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

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

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**ON MODELING OF GEODYNAMIC PROCESS**

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**GENERALIZATION OF SPATIAL GEOCHEMICAL INFORMATION USING CLUSTERING**

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

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

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

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

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

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**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.*

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

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

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**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>*

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

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

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

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**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>*

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

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**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>*

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

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

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**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>*

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

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

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

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

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

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## **NEURAL NETWORK FOR GEOMAGNETIC DATA ANALYSIS**

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

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

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

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

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

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

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## **ИНТЕРВАЛЬНОЕ РАСПОЗНАВАНИЕ ОБРАЗОВ И НЕЧЕТКИЕ МНОЖЕСТВА**

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

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

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## **IMPROVEMENT OF TECHNIQUE OF ASSESSMENT OF GEOMECHANICAL CONDITION OF GEOENVIRONMENT ACCORDING GEOACOUSTIC MONITORING DATA**

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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**

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## **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>*

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

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

*Belousov A.V.*

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## **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.*

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

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

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<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*

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**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>*

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

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**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 Bereznyk, Eugene Kovalenko*

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

**РЕСУРСЫ И ТЕХНОЛОГИИ ИНФОРМАЦИОННОЙ ПОДДЕРЖКИ МОРСКОЙ 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*

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**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>*

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

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

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

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**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>*

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**SB RAS CORPORATE CLOUD PROJECT**

*D.V.Kosyakov<sup>1</sup>, A.E.Guskov<sup>2</sup>*

<sup>1</sup>The Trofimuk Institute of Petroleum Geology and Geophysics SB RAS (IPGG SB RAS, Russia)

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

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

*D.V.Kosyakov<sup>1</sup>, D.A.Dochkin<sup>1</sup>, A.E.Guskov<sup>2</sup>*

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Секция 7

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

Тематические БД, ИС. Предметно-ориентированные системы.

**КАМЧАТКАН 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>*

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<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*

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**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*

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**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>*

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**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*

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**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. Matveenkov, V.A. Saltykov, S.L. Senyukov, V.A. Sergeev, V.A. Poletaev P.P. Firstov, A.Yu. Chebrova, D.V. Chebrov, V.V. Yashchuk*

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**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>*

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**REGIONAL 3D GEOLOGICAL MODLING SYSTEM**

*Xue Linfu*

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**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>*

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**VISUALIZATION OF DISPLACEMENT IN THE ROCK MASS**

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

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

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

*Близнецов В.Е.*

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**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>*

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**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*

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

*Oleg Mironov*

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

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

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**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*

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

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**ANCIENT POMPEII: A VOLCANIC LEGACY**

*Franco Pirajno*

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

*Franco Pirajno*

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**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>*

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

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

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

*Evgeny G. Bugaev, Luiza M. Fihieva*

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

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

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

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**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*

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

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