

IVth International Conference
**«Modern Information Technologies in Earth Sciences.
ITES-2016»**
Sakhalin island, Russia
7-11 August 2016

Organizers of the Conference: Far East Geological Institute FEB RAS, Institute of Automation and Control Processes FEB RAS, Institute of Marine Geology and Geophysics FEB RAS, N.A. Shilo North-East Interdisciplinary Scientific Research Institute FEB RAS, Institute of Volcanology and Seismology FEB RAS, Geophysical Center RAS, V.I. Vernadsky State Geological Museum RAS.

Three conferences took place in Russian Far East earlier: in Magadan (2008), in Vladivostok (2010), in Kamchatka (2014). This Conference is the fourth and by tradition is held in one of scientific centers of the Russian Far East. Organizers of this events hope that these Conferences will serve as an incentive for development of information technologies in scientific research and education and will promote involvement of young people in earth science in the Russian Far East.

Conference main topics:

- Modern information technologies for basic and applied researches in oil and gas geology.

Coordinator: Institute of Marine Geology and Geophysics FEB RAS

- Organization of nets for gathering, storing and processing of earth science data. Development of systems for on-line monitoring of natural objects.

Coordinator: Institute of Volcanology and Seismology FEB RAS

- Modern technologies for distant satellite monitoring of the Earth. Services for operational access to satellite data and systems for their processing. Techniques to analyze satellite data. Remote methods for geology and geophysics.

Coordinator: Institute of Automation and Control Processes FEB RAS

- Infrastructures of resources and webs providing scientific information. Technologies and experience in design of information infrastructures for geosciences.

Coordinator: Far East Geological Institute FEB RAS

- Electronic libraries and collections. Models, architecture and infrastructure. Development tools. Intelligent data analysis, elicitation of facts and knowledge from scientific publications.

Coordinator: Far East Geological Institute FEB RAS

- Thesauruses, ontologies and conceptual modeling. Semantic WEB, linked data. Services. Content semantic structuring. Application for geosciences.

Coordinator: Institute of Automation and Control Processes FEB RAS

- Geoinformation provision for fundamental investigations in Earth Sciences. Infrastructure of spatial data. Problems of spatial data integration, services and applications. Intelligent GIS.

Coordinator: N.A. Shilo North-East Interdisciplinary Scientific Research Institute FEB RAS

- Mathematic modeling for Earth Science

Coordinator: Geophysical Center RAS

- Modern information technologies for creation systems demonstrating and popularizing results and achievements of science, popular science websites.

Coordinator: V.I. Vernadsky State Geological Museum RAS

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More than 130 people from 8 countries of the world participated in the Conference: Russia, France, Austria, Canada, Kazakhstan, Uzbekistan, Belarus, Vietnam. They provided results of scientific research from 30 institutes, 15 universities, 20 companies and the organizations.

85 oral and 32 bench reports were provided and discussed at the Conference.

The reports presented on the conference evidence that today there exist various networks for remote monitoring of natural objects and processes and many are in the pipeline. The enormous amount of collected during the process of monitoring data requires modern repositories for their storing and subject analysis.

The use of the data of remote sensing in geosciences gets violent development nowadays. The body of information incoming from satellites constantly grows so the problem of the data bulk processing and management becomes more acute. Satellite data integration, provision of the internet access to them and management of internet services allowing their subject processing is the urgent task.

Well-developed information infrastructure is the necessary criterion for scientific researches to be effective. The integrations of information and computational resources into a unified environment and the generation of access to these resources is one of the most important directions of modern information technologies development.

Conference Web-site: <http://sakhalin.fareastgeology.ru>

Proceedings of the Conference:

http://sakhalin.fareastgeology.ru/images/ites_2016.pdf

Conference Photo gallery:

<http://photo.fareastgeology.ru/index.php?/category/129>

Video of reports (only in russian):

<http://video.fareastgeology.ru/records/19>

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