



Earth Sciences Branch RAS

INSTITUTION OF THE RUSSIAN ACADEMY OF SCIENCES



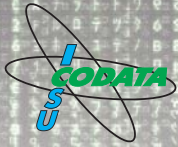
GEOPHYSICAL CENTER OF RAS



Schmidt Institute of Physics of the Earth RAS



Russian foundation for basic research



Committee on Data for Science and Technology



National Geophysical Committee RAS



International Union of Geodesy and Geophysics (IUGG)



International Association of Geomagnetism and Aeronomy (IAGA)

26-28 January 2011, Russian Federation, Yaroslavl region, Uglich

INTERNATIONAL WORKSHOP "Artificial Intelligence in the Earth's Magnetic Field Study. INTERMAGNET Russian Segment."

Second circular

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Dear colleagues!

We invite you to international conference “Artificial Intelligence in the Earth’s Magnetic Field Study. INTERMAGNET Russian Segment”, which will be held on 26-28 January 2011 in Uglich, Yaroslavl region, Russia, in the hotel “Volgskaya Riviera” (Uglich, Uspenskaya square, 8).

Geomagnetic field study is one of the fundamental problems of geophysics. The Earth’s magnetic field is the most important source of information about the inner structure of the Earth and its evolutionary processes. The most accurate and rapid data on the geomagnetic field is provided by INTERMAGNET (International Real-time Magnetic Observatory Network) which is operating now for more than 20 years. The main objective of the network of the more than 110 observatories all over the world is observations, acquisition, accumulation, storage, dissemination, analysis and correction of magnetograms with minimum delay.

Huge volumes of recorded geomagnetic data lead to necessity of fundamentally new methods of its processing. Such methods include artificial intelligence and geoinformatics. The conference will be, in many ways, devoted to analysis of recent achievements in this direction.

The conference will put together leading scientists and specialists in geomagnetism and magnetic observations from Canada, France, Germany, Hungary, Russia, the Ukraine and USA. The main goal of the conference is to exchange knowledge and experience in application of modern geomagnetic instruments and deployment of magnetic observatories, technical and scientific processing of the magnetograms. The concrete objective is to discuss the plan of further INTERMAGNET development in Russia.

Leading experts-magnetologists, expected at the conference, will be asked to express their opinions regarding deployments of future geomagnetic observatories in Russia. Leading manufacturers and suppliers of geomagnetic and modern computer equipment will take part in the conference.

Detailed information about the conference and registration forms you could find at the website <http://uglich2011.gcras.ru/>

Program committee

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Program of the Conference

26 January, Wednesday

08:00–08:30	Departure from Moscow to Uglich
12:00–12:30	Arrival to Uglich. Excursion in Uglich
12:30–14:00	Registration, hotel accommodation
14:00–15:30	Lunch
16:00–20:00	Conference opening (Alexander Gliko, Arnaud Chulliat, the Mayor of Uglich Eleonora Sheremetieva) Session 1. Fundamental problems of Earth Magnetic field study. (Chair: Alexander Gliko) Main reports: Arnaud Chulliat, France “Why did the North Magnetic Pole suddenly accelerate?” Andrey Khokhlov, Russia “Secular variations and modeling of magnetic field of the Earth” Vitaly Starostenko, Ukraine “The problems and the tasks in the Earth's magnetic field study”
20:00–21:30	Welcoming reception

27 January, Thursday

08:00–09:00	Breakfast
09:00–13:40	Session 2. INTERMAGNET observatories and other geophysical observations in Russia. (Chair: Arnaud Chulliat) Main reports: Arnaud Chulliat, France, “INTERMAGNET operations, achievements and prospectives” Oleg Troshichev “Magnetic observations in the polar region of Russia: accumulation, processing and analysis of data” Valery Korepanov, Ukraine “Magnetometer of the new generation for 1-second standard of the “INTERMAGNET” system” Sergey Khomutov, Russia “Kluchi INTERMAGNET observatory in Western Siberia” Sergey Anisimov, Russia “Borok INTERMAGNET observatory: status and prospective”
13:40–15:00	Lunch
15:00–18:30	Business meeting. Development of INTERMAGNET in Russia
15:00–19:30	Poster presentation

28 January, Friday

08:00—09:00	Breakfast
09:00—14:00	Session 3. Artificial intelligence and modeling in the analysis of geomagnetic data. (Chair: Le Mouel Jean-Louis) Main reports: Anatoly Soloviev, Alexei Gvishiani, Russia “ Mathematical Methods of artificial intelligence in the geomagnetic fields study ” Alexander Soloviev, Russia “ Pattern recognition of magnetic time series ” Justin Mabie, USA “ Geomagnetic data in the World Data System archives ”
14:00—15:00	Lunch
15:00—17:00	Session 4. International geophysical programs and projects. (Chair: Manda Mioara) Main reports: Alik Izmail-Zadeh, Germany “ Up-to-date condition and projects of the International Union of Geodesy and Geophysics ” Mioara Manda, Germany “ IAGA and Evolutionary studies of the geomagnetic field ” Cilliers Pierre, South African Republic “ World Data System of International Council of Science ” Andrei Khokhlov, Galkovskii Eugene, Alexei Gvishiani, Russia “ Project: Atlas of Earth's magnetic field ”
17:00–18:30	Closing of the Conference.
19:00–22:00	Gala dinner at the hotel restaurant.

29 January, Saturday

08:00—09:00	Breakfast
09:00—10:00	Taking off from Uglich. Excursion to the geomagnetic observatory BOX
11:00—12:00	Arrival to BOX
12:00—14:00	Excursion at the geomagnetic observatory BOX
16:00—16:30	Taking off to Moscow
18:00—20:00	Arrival to Moscow

Additional information

Sessions of the conference will be held in the hall “Catherine II” and business-meeting will be held in the hall “Elizabeth”.

Working languages of the conference are English and Russian. The oral and poster presentations in English are desirable.

Conference fee

Conference fee is 380 euro (bank transfer before 24.12.2010) or 430 euro (payment in cash in Russian rubles on site registration). The conference fee includes: transportation Moscow-Uglich-Moscow, hotel accommodation, breakfast, lunches, welcoming reception, coffee breaks, conference materials.

Contact information

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For bank transfer in EURO please use the following account

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Hotel "Volgskaya Riviera" is situated in the heart of Uglich on the Volga river bank, 220 km far from Moscow and 100 km far from Yaroslavl.

The ginger of the hotel is panoramic view on the Volga River, exclusive design of marble lions, decorating the main entrance of the hotel and closeness of the ancient Kremlin.

"Volgskaya Riviera" is a new hotel complex, where you can find everything a modern man need, when he comes here to rest from noisy city life. Estate interiors, grand pillars, pure white balustrade, made in tone with marble front staircase, make the surroundings very bright and celebratory.

"Volgskaya Riviera" hotel was granted 4 stars on the 30th of June. On September 24, Hotel "Volgskaya Riviera" won the National Tourism Award in honor of Senkevich "The Best Hotel in 4 stars category".

