

International Scientific Conference "Geophysical Processes in the Earth and its Envelopes"

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ABSTRACT

Information about the international scientific conference "Geophysical Processes in the Earth and its Envelopes" Dedicated to 90-th Anniversary of Mikheil Nodia Institute of Geophysics of Ivane Javakhishvili Tbilisi State University, which was held on November 16-17, 2023 at Ivane Javakhishvili Tbilisi State University is presented.

Key words: *geophysical processes, Earth and its envelopes, natural disasters, earth ecology, mitigation.*

Introduction

On November 16-17, 2023, Ivane Javakhishvili Tbilisi State University hosted the International Scientific Conference "Geophysical Processes in the Earth and its Envelopes" Dedicated to 90-th Anniversary of Mikheil Nodia Institute of Geophysics of Ivane Javakhishvili Tbilisi State University.

The conference was attended by about 200 researchers from 38 organizations from 9 countries (Georgia; Armenia; Slovenia; Hungary, Belarus; Austria; Ukraine; Italy; Chechen Republic, Republic of North Ossetia - Alanya, Russia).

The objectives of the conference were the presentation of the results of research in the field of geophysical processes in the Earth and its envelopes at the plenary session (oral\stand\video). Also, presentation of reports selected by the scientific committee and their discussion at plenary, sectional sessions and in poster form.

The target group was Georgian and foreign scientific, educational, governmental and non-governmental organizations, which have direct contact with the theme of the conference (universities, research institutes, educational organizations, structures of emergency situations, etc.).

The conference participants were given certificates.

The collection of conference materials and all of its separate articles is available on the website of the National Scientific Library: <http://dspace.gela.org.ge/handle/123456789/10378>

Goal of the Conference

- Discovering the potential of scientists in the field of geophysical processes in the Earth and its envelopes;
- Establishing and strengthening ties between different generations of scientists;
- Defining the prospects for the development of scientific research;
- Identify opportunities for improving the scientific-educational field of secondary and higher education institutions in relation to the issues of the conference;
- Strengthening international scientific cooperation on conference topics;
- To acquaint the world scientific community, governmental structures, other interested organizations and individuals with the current state of the problems related to the fields of geophysical processes in the Earth and its envelopes.

Conference Organizers

The conference was organized by the Mikheil Nodia Institute of Geophysics of the Tbilisi State University.

Conference Supporting Organizations

The supporting organization of the conference was the Georgian Geophysical Association.

Scientific Committee and Editorial Board

Tamaz Chelidze: Academician, Chairman of the Scientific Committee, Editor-in-Chief; **Nodar Varamashvili, Jemal Kiria:** Co-Chairmans of the Scientific Committee - TSU, M. Nodia Institute of Geophysics, Georgia; **Nana Bolashvili:** Co-Chairman of the Scientific Committee – TSU, Vakhushti Bagrationi Institute of Geography, Georgia; **Tengiz Tsintsadze:** Co-Chairman of the Scientific Committee – GTU, Institute of Hydrometeorology, Georgia; **Avtandil Amiranashvili** (Deputy Editor-in-Chief), **Nugzar Ghlonti, George Melikadze** - TSU, M. Nodia Institute of Geophysics, Georgia; **Liana Kartvelishvili** - National Environmental Agency, Georgia; **Marika Tatishvili** - GTU, Institute of Hydrometeorology, Georgia; **Magda Davitashvili** – I. Gogebashvili Telavi State University, Georgia; **Ketevan Khazaradze** - Georgian State Teaching University of Physical Education and Sport, Georgia; **Nino Japaridze** - Tbilisi State Medical University, Georgia; **Laura Rustioni, Gianluca Pappaccogli** - University of Salento, Italy; **Janja Vaupotič** – Jožef Stefan Institute, Slovenia; **István Főríz** - Institute for Geological and Geochemical Research, Hungary; **Sergey Stankevich** – Scientific Centre for Aerospace Research of the Earth, National Academy of Sciences of Ukraine, Ukraine; **Sergey Nazaretyan** - Regional Survey for Seismic Protection, Ministry of Internal Affairs of the Republic of Armenia, Armenia.

Organizing Committee

Mikheil Pipia: Chairman of Organizing Committee; **Manana Nikolaishvili** – Deputy Chairman of Organizing Committee; **Sophiko Matiashvili, Zamira Arziani, Ekaterine Mepharidze, Dimitri Amilakhvari, Dimitri Tepnadze, Leván Laliashvili** – TSU, M. Nodia Institute of Geophysics, Georgia; **Nino Taniashvili** - Georgian Geophysical Association, Georgia; **Nazibrola Beglarashvili**, - GTU, Institute of Hydrometeorology, Georgia; **Inga Janelidze** – Georgian Technical University, Georgia.

Conference Themes – All problems of the geophysical processes in the Earth and its envelopes.

Expected Results

- Promoting historical and modern achievements in the field of geophysical processes in the Earth and its envelopes;
- To acquaint the world community with the current state of the problems related to the science of the Earth;
- Enhance international cooperation for the scientific and practical application of modern achievements related to the conference;
- Assess the social and economic risks associated with the conference topics and identify opportunities for joint action to prevent these risks;
- Identify opportunities to improve the scientific-educational base of secondary and higher education institutions in the field of Earth Sciences.

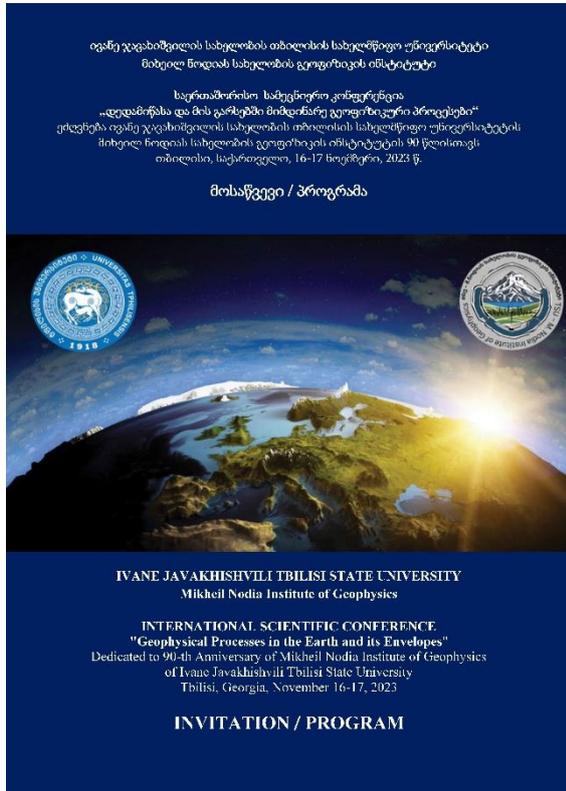
The conference was opened by the deputy rector of Ivane Javakhishvili Tbilisi State University Nino Gvenetadze, chairman of the scientific committee academician Tamaz Chelidze and co-chairman of the scientific committee, director of Mikheil Nodia Institute of Geophysics, TSU, Nodar Varamashvili. Speakers made a general overview about the modern problems of geophysical processes in the Earth and its envelopes and wished the conference participants fruitful work.

A total of 86 oral and poster presentations were considered at the conference. 84 reports published (see References). Two reports, at the request of the authors, will be published in another editions (Kordzakhia G. , Shengelia L., Tvauri G., Dzadzamia M., Guliashvili G. - Comparison of Comparison of Satellite Remote Sensing and Field Ground Observation Data for the Large Glaciers Retreat Study in Georgia; Gorgijanidze S. – The Geography of Risks of Breakthrough of Glacial Lakes and Valleys).

The proceedings of this conference as a whole, as well as its individual works, are published and posted on the portal of the Institute of Geophysics, which are included in the international electronic library data base DSpace, indexed in Google Scholar and Publish or Perish.

According to the results of the conference, a decision was made, in which the achievements and gaps in the directions of geophysical processes in the Earth and its envelopes are discussed. Future meetings have been planned.

Photos from Conference





















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საერთაშორისო სამეცნიერო კონფერენცია „დედამიწასა და მის გარსებში მიმდინარე გეოფიზიკური პროცესები“

ნ. ვარამაშვილი, მ. ფიფია
რეზიუმე

წარმოდგენილია ინფორმაცია ივანე ჯავახიშვილის სახელობის თბილისის სახელმწიფო უნივერსიტეტის მიხეილ ნოდის სახელობის გეოფიზიკის ინსტიტუტის 90 წლის იუბილესადმი მიძღვნილი საერთაშორისო სამეცნიერო კონფერენციის „დედამიწასა და მის გარსებში მიმდინარე გეოფიზიკური პროცესები“ შესახებ, რომელიც ჩატარდა 2023 წლის 16-17 ნოემბერს ივანე ჯავახიშვილის სახელობის თბილისის სახელმწიფო უნივერსიტეტში.

საკვანძო სიტყვები: გეოფიზიკური პროცესები, დედამიწა და მისი გარსები, ბუნებრივი კატასტროფები, დედამიწის ეკოლოგია, შერბილება.

Международная научная конференция “Геофизические процессы в Земле и ее оболочках“

Н.Д. Варамашвили, М.Г. Пипиа

Резюме

Представлена информация о международной научной конференции “Геофизические процессы в Земле и ее оболочках“, посвященной 90-летию Института геофизики имени Михаила Нодия Тбилисского государственного университета имени Иване Джавахишвили, которая прошла 16-17 ноября 2023 года в Тбилисском государственном университете имени Иване Джавахишвили.

Ключевые слова: геофизические процессы, Земля и ее оболочки, стихийные бедствия, экология Земли, смягчение последствий.