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Chronicle

International Scientific Conference "Complex Geophysical Monitoring in Georgia: History, Modern Problems, Promoting Sustainable Development of the Country"

¹Nodar D. Varamashvili, ²Mikheil G. Pipia

¹M. Nodia Institute of Geophysics of the I. Javakhishvili Tbilisi State University, Georgia ²Institute of Hydrometeorology of the Georgian Technical University, Georgia

¹e-mail: nodar.varamashvili@tsu.ge ²e-mail: m.pipia@gtu.ge

ABSTRACT

Information about the international scientific conference "Complex Geophysical Monitoring in Georgia: History, Modern Problems, Promoting Sustainable Development of the Country" Dedicated to 180 Anniversary of the Organization in Georgia of Regular Magneto-Meteorological Observations, which was held on October 17-19, 2024 at Ivane Javakhishvili Tbilisi State University is presented.

Key words: Earth and its envelopes, geophysical processes, complex geophysical monitoring, natural disasters, earth ecology, mitigation, promoting sustainable development.

Introduction

On October 17-19, 2024, Ivane Javakhishvili Tbilisi State University hosted the International Scientific Conference "Complex Geophysical Monitoring in Georgia: History, Modern Problems, Promoting Sustainable Development of the Country" Dedicated to 180 Anniversary of the Organization in Georgia of Regular Magneto-Meteorological Observations.

The conference was attended by about 200 researchers from 37 organizations from 13 countries (Georgia, Armenia, Germany, Greece, Hungary, Italy, Poland, Russia (Chechen Republic), Slovenia, Spain, Sweden, USA, Uzbekistan).

The aim of the conference was to present the results of research in the field of complex geophysical monitoring in Georgia and other countries (history, modern problems, assistance to sustainable development of countries) at the plenary session (oral\poster\video). As well as presentation of reports selected by the scientific committee and their discussion at plenary, sectional sessions and in the form of poster reports.

The target group was Georgian and foreign scientific, educational, governmental and nongovernmental 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/123456789/10609

Goal of the Conference

• Discovering the potential scientists in the field of complex geophysical monitoring;

- Establishing and strengthening connections 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 complex geophysical monitoring.

Conference Organizers

The conference was organized by the Mikheil Nodia Institute of Geophysics of the Tbilisi State University, Institute of Hydrometeorology of Technical University Of Georgia and 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; Mikheil Pipia: 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; 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 Fórizs - Institute for Geological and Geochemical Research, Hungary; Sergey Nazaretyan - Regional Survey for Seismic Protection, Ministry of Internal Affairs of the Republic of Armenia, Armenia.

Organizing Committee

Manana Nikolaishvili: Chairman of Organizing Committee; Zamira Arziani – Deputy Chairman of Organizing Committee; Sophiko Matiashvili, Ekaterine Mepharidze, Dimitri Amilakhvari, Dimitri Tepnadze, Levan 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 complex geophysical monitoring in Georgia and other countries.

Expected Results

- Promoting historical and modern achievements in the field of complex geophysical monitoring;
- To acquaint the world community with the current state of the problems related to the complex geophysical monitoring;
- Enhance international cooperation for the scientific and practical application of modern achievements related to the conference topics;
- Assess the social and economic risks associated with the conference topics and identify opportunities for joint action to prevent these risks;
- Assess opportunities to expand the use of complex geophysical monitoring to support sustainable development of countries;
- Identify opportunities to improve the scientific-educational base of secondary and higher education institutions in the field of complex geophysical monitoring.

The conference was opened by the deputy rector of Ivane Javakhishvili Tbilisi State University Kakha Cheishvili, chairman of the scientific committee academician Tamaz Chelidze, co-chairman of the scientific committee, director of Mikheil Nodia Institute of Geophysics, TSU, Nodar Varamashvili and co-chairman of the scientific committee, director of Institute of Hydrometeorology, GTU, Mikheil Pipia.

Speakers made a general overview about the modern problems of the complex geophysical monitoring in Georgia and wished the conference participants fruitful work.

A total of 48 oral and poster presentations were considered at the conference. 46 reports published (see References). Two reports, at the request of the authors, will be published in another edition (Kharshiladze O., Amilakhvari D., Davitashvili T., Kobaidze D. - Non-Linear Theory of Thermal Conductivity in the Atmosphere; Elbakidze Kh., Sorriso-Valvo L., Kharshiladze O., Gurchumelia A., Tsulukidze L. - Fractal and Correlation Analysis of Geomagnetic Activity Data).

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 the complex geophysical monitoring in Georgia and other countries are discussed. Future meetings have been planned.

Photos from Conference

















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საერთაშორისო სამეცნიერო კონფერენცია "კომპლექსური გეოფიზიკური მონიტორინგი საქართველოში: ისტორია, თანამედროვე პრობლემები, ქვეყნის მდგრადი განვითარების ხელშეწყობა"

ნ. ვარამაშვილი, მ. ფიფია

რეზიუმე

წარმოდგენილია ინფორმაცია საერთაშორისო სამეცნიერო კონფერენციაზე "კომპლექსური გეოფიზიკური მონიტორინგი საქართველოში: ისტორია, თანამედროვე პრობლემები, ქვეყნის მდგრადი განვითარების ხელშეწყობა" მიღვნილი საქართველოში რეგულარული მაგნიტური და მეტეოროლოგიური დაკვირვებების ორგანიზების 180 წლის იუბილეს, რომელიც ჩატარდა 2024 წლის 17-19 ოქტომბერს ივანე ჯავახიშვილის სახელობის თბილისის სახელმწიფო უნივერსიტეტში.

საკვანძო სიტყვები: დედამიწა და მისი გარსები, გეოფიზიკური პროცესები, კომპლექსური გეოფიზიკური მონიტორინგი, ბუნებრივი კატასტროფები, დედამიწის ეკოლოგია, შედეგების შერბილება, მდგრადი განვითარების ხელშეწყობა.

Международная научная конференция "Комплексный геофизический мониторинг в Грузии: история, современные проблемы, содействие устойчивому развитию страны"

Н. Варамашвили, М. Пипия

Резюме

Представлена информация о международной научной конференции "Комплексный геофизический мониторинг в Грузии: история, современные проблемы, содействие устойчивому развитию страны", посвященной 180-летию организации в Грузии регулярных магнито-метеорологических наблюдений, которая прошла 17-19 октября 2024 года в Тбилисском государственном университете имени Иванэ Джавахишвили.

Ключевые слова: Земля и ее оболочки, геофизические процессы, комплексный геофизический мониторинг, стихийные бедствия, экология Земли, смягчение последствий, содействие устойчивому развитию.