

**III INTERNATIONAL SYMPOSIUM
"PHYSICS, CHEMISTRY AND MECHANICS OF SNOW"**



PROGRAMME



**Yuzhno-Sakhalinsk
October 2-6, 2017**

VENUE



ORGANIZERS

Far East Geological Institute of the Far Eastern Branch of Russian Academy of Science (FEGI FEB RAS), Vladivostok, Russia

Nonprofit Organization Research Center for the Study of geodynamic processes "Geodynamics", Yuzhno-Sakhalinsk, Russia

Japanese Society of Snow and Ice (JSSI), Tokio, Japan

Laboratory of the Physical Geography, CNRS and Pantheon-Sorbonne University Paris 1, Paris, France

Special Research Bureau for Automation of Marine Researches of the Far Eastern Branch of Russian Academy of Science", Yuzhno-Sakhalinsk, Russia

CO-CHAIRS

Academician **A.I. Khanchuk**, Academician of RAS, Scientific Director of the FEGI FEB RAS, Vladivostok, Russia

Prof. **S. Takahashi**, President of Japanese Society of Snow and Ice (JSSI), Tokyo, Japan

Ph.D. **V. Jomelli**, Research Director, Laboratory of Physical Geography, CNRS and Pantheon-Sorbonne University Paris 1, Paris, France

DEPUTY CHAIRMEN

Ass. Prof. **N.A. Kazakov**, Director of the Sakhalin Branch of Far East Geological Institute FEB RAS, Head of the Laboratory of Avalanche and Debris Flow Processes, Yuzhno-Sakhalinsk, Russia

Ph.D. **S.A. Sokratov**, Deputy Dean of Research of the Faculty of Geography of the Lomonosov Moscow State University, Moscow, Russia

Prof. **C. de Jong**, Professor of the Institute of Imagery, City and Environment Faculty of Geography and Spatial Planning of University of Strasbourg, Strasbourg, France, Ex-President of Cryospheric Sciences of the European Geosciences Union

SENIOR SECRETARY

Ph.D. **E.N. Kazakova**, Senior Researcher, Laboratory of Avalanche and Debris Flow Processes, Sakhalin Department of FEGI FEB RAS, Yuzhno-Sakhalinsk, Russia

ORGANIZING COMMITTEE

Corresponding Member of RAS **O.N. Solomina**, Vice-president of the International Association of Cryospheric Sciences, Director of the Institute of Geography RAS, Moscow, Russia

Prof. **E.E. Adams**, Professor of the Montana State University, Bozeman, USA

Ph.D. **Yu. V. Gensiorovskiy**, Deputy Director of the Research Center for the Study of Geodynamic Processes "Geodynamics", Yuzhno-Sakhalinsk, Russia

Prof. **G.E. Glazyrin**, Professor of the National University of Uzbekistan, Tashkent, Uzbekistan

Ph.D. **A.I. Zajcev**, Deputy Director of Research of the Special Research Bureau for Automation of Marine Researches of the Far Eastern Branch of RAS, Yuzhno-Sakhalinsk, Russia

Prof. **E.G. Kolomyc**, Head of the Laboratory of Landscape Ecology, Institute of Volga Basin Ecology RAS, Pushchino, Russia

Prof. **N. Maeno**, Ex-president of the International Glaciological Society, Board Member of the International Glaciological Society, Professor at Hokkaido University, Sapporo, Japan

Prof. **K. Nishimura**, Professor of the Graduate School of Environmental Studies, Nagoya University, Nagoya, Japan

Dr. Sc. **V.P. Blagovechshenskiy**, Head of the Department of the Natural Hazards of the Institute of Geography of Kazakhstan, Almaty, Kazakhstan

Dr. Sc. **V.R. Laperdin**, Senior Researcher of the Institute of the Earth's Crust Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia

Ph.D. (Sci) **S. Fuchs**, Deputy Director of the Institute of Mountain Risk Engineering, University of Natural Resources and Life Sciences, Wien, Austria

Ph.D. **D. McClung**, Professor Emeritus of the Avalanche Engineering; Snow and Avalanche Research, Department of Geography, University of British Columbia, Vancouver, Canada

Ph.D. **K.Ya. Molchanov**, Referent of the Department for Development of Entrepreneurship and Competition of Science and Innovation, Ministry of Economic Development of Sakhalin region, Scientific Secretary of the Scientific Expert Council of Government of the Sakhalin region, Yuzhno-Sakhalinsk, Russia

Ph.D. **E. Hestnes**, Senior Geomorphologist, Norwegian Geotechnical Institute, Oslo, Norway

Ph.D. **A.L. Shnyparkov**, Leading Researcher, Lomonosov Moscow State University, Moscow, Russia

Ph.D. **S. Yamaguchi**, Research Institute for Earth Science and Disaster Resilience, Nagaoka, Japan

Ph.D. (Sci) **A. Sato**, Technical Advisor, Sekisui Plastics Co., LTD., Tokyo, Japan

LOCAL ORGANIZING GROUP

Ph.D. **V.A. Lobkina**, Senior Researcher; Ph.D. **D.A. Bobrova**, Researcher; Ph.D. **Yu. A. Stepnova**, Researcher; **I.A. Kononov**, Researcher; **S.V. Rybalchenko**, Junior Researcher; **A.A. Muzychenko**, Junior Researcher; **V.K. Stavniychuk**, Senior Engineer; **V.S. Pavlov**, Engineer (Laboratory of Avalanche and Debris Flow Processes, Sakhalin Branch of FEGI FEB RAS); **S.A. Stepaniuk** Deputy Director for Economics - Chief Accountant; **T.N. Belikova**, Leading Accountant; **O.V. Vladzimirskaya**, Senior Economist (FEGI FEB RAS, Vladivostok)

Monday, 2nd October

*Special Design Office of the Automation Devices for Marine Research of the Far East
Branch of RAS, Conference Hall, 2nd floor*

9⁰⁰ – 10⁰⁰ Registration

10⁰⁰ – 10³⁰ **THE OPENING OF THE SYMPOSIUM**

INTRODUCTION

Academician of RAS **A.I. Khanchuk**, Scientific director of the FEGI FEB RAS, Vladivostok, Russia

Ass. Prof. **N.A. Kazakov**, Director of the Sakhalin Branch of FEGI FEB RAS, head of the Laboratory of Avalanche and Debris Flow Processes, Yuzhno-Sakhalinsk, Russia

Prof. **S. Takahashi**, President of Japanese Society of Snow and Ice (JSSI), Tokyo, Japan

Nesterov D.V., Deputy Chairman of the Government of the Sakhalin Region, Yuzhno-Sakhalinsk, Russia

10³⁰ – 12⁵⁰ **PLENARY SESSION**

Chairman: academician of RAS **A.I. Khanchuk**, FEGI FEB RAS, Vladivostok, Russia

10³⁰ – 11⁰⁰ **Drifting snow disaster in Hokkaido, Japan**
S. Takahashi,
Okhotsk Sea Ice Museum of Hokkaido, Mombetsu, Hokkaido, Japan

11⁰⁰ – 11³⁰ **Natural hazard and risk research in Russia**
A.L. Shynparkov¹, S. Fuchs², V. Jomelli³, N.A. Kazakov⁴, S.A. Sokratov²
¹*Lomonosov Moscow State University, Faculty of Geography, Moscow, Russia*
²*Institute of Mountain Risk Engineering, University of Natural Resources and Life Sciences, Vienna, Austria*
³*CNRS-UMR 8591, University Paris 1 (Panthéon-Sorbonne), Paris, France*
⁴*Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia*

11³⁰ – 11⁵⁰ **Coffee Break**

11⁵⁰ – 12²⁰ **Environmental impacts of artificial snow and snow grooming on ski runs in the Alps and Black Forest**
C. de Jong¹, D. Pinto²
¹*LIVE (Institute of Imagery, City and Environment), Faculty of Geography and Spatial Planning, University of Strasbourg, France*

- 12²⁰ – 12⁵⁰ ²*Faculty of Geography and Spatial Planning, University of Strasbourg, France*
Evolution of avalanche geosystems
N.A. Kazakov
Sakhalin Branch of FEGI FEB RAS, Laboratory of Avalanche and Debris Flow Processes, Yuzhno-Sakhalinsk, Russia

12⁵⁰ – 14³⁰ **Lunch**

14³⁰ – 15³⁰ **Section I. Physical and chemical properties of snow.**

Chairman: prof. N. Maeno, professor at Hokkaido University, Sapporo, Japan

14³⁰ – 14⁵⁰ **Drag force acting in snow**

N. Maeno

Hokkaido University, Sapporo, Japan

14⁵⁰ – 15¹⁰ **The conductivity of freshly fallen snow**

K.V. Verkhovov¹, S.V. Rybalchenko²

¹*MPI «Capital construction management», Yuzhno-Sakhalinsk, Russia*

²*Far East Geological Institute of Far Eastern Branch Russian Academy of Science, Sakhalin Department, Yuzhno-Sakhalinsk, Russia*

15¹⁰ – 15³⁰ **Assessment of damage to soil pollution the operation of anthropogenic snow patch**

M.V. Mikhalev², V.A. Lobkina², N.N. Uhova³

¹*Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia*

²*Institute of the Earth's Crust SB RAS, Irkutsk, Russia*

15³⁰ – 16⁰⁰ **Poster Session**

Physical and chemical properties of snow. Snowpack metamorphism. Microstructure, texture and stratigraphy of snowpack. Physical and mathematical modeling of snow processes. Devices and equipment; research techniques.

15³⁰ – 16⁰⁰ **Poster Presentations**

Snow-mineral mixtures on roads for sustaining transport and technological vehicles in coastal zones

V.V. Belyakov¹, P.O. Beresnev¹, D.V. Zeziulin¹, V.E. Kolotlin¹, A.A. Kurkin¹, V.S. Makarov¹, D.M. Porubov¹, V.I. Filatov¹, D.D. Minaev², A.E. Malashenko²

¹*R.E. Alekseev Nizhny Novgorod State Technical University, Nizhny Novgorod, Russia*

²*Special Research Bureau for Automation of Marine Researches, Far Eastern Branch RAS, Yuzhno-Sakhalinsk, Russia*

The density of different types of deposited snow

V.A. Lobkina, E.N. Kazakova

Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia

The ratio of ice crystals of different classes of shapes in the layers of secondary idiomorphic snow

N.A. Kazakov, I.A. Kononov, A.A. Muzychenko, V.V. Pavlov

Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia

Influence of hydrothermal conditions of snow cover development on the symmetrical installation of crystals in the snow layer

I.A. Kononov, Y.A. Stepnova, A.A. Muzychenko

Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia

Characteristics of snow cover in the separation zone of an avalanche in the eastern part of Sakhalin Island

V.V. Lozhkomoev, S.I. Chebotaryov, A.V. Altukhov, A.B. Bu, O.V. Parshukova

Branch of Open Joint Stone company «Russian railways», Central Directorate of Infrastructure, Far Eastern Directorate of Infrastructure, Center of Diagnostics and Monitoring of Infrastructure Devices, Yuzhno-Sakhalinsk, Russia

A statistical model of snow cover - an example from Sakhalin Island

V.S. Makarov¹, D.V. Zeziulin¹, P.O. Beresnev¹, V.I. Filatov¹, D.M. Porubov¹, A.A. Kurkin¹, V.V. Belyakov¹, D.D. Minaev², A.E. Malashenko²

¹*R.E. Alekseev Nizhny Novgorod State Technical University, Nizhny Novgorod, Russia*

²*Special Research Bureau for Automation of Marine Research, Far Eastern Branch RAS, Yuzhno-Sakhalinsk, Russia*

16⁰⁰ – 16³⁰

Coffee Break

16³⁰ – 17³⁰

Section II. Snowpack metamorphism. Microstructure, texture and stratigraphy of snowpack.

Chairman: Ph.D. S.A. Sokratov, the Faculty of Geography of the Lomonosov Moscow State University, Moscow, Russia

16³⁰ – 16⁵⁰

The structure and texture of snow pack on the Kola Peninsula

*N.A. Kazakov, A.A. Muzychenko, E.N. Kazakova, I.A. Kononov, V.V. Pavlov
Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia*

16⁵⁰ – 17¹⁰

Assessment of the spatial and temporal variability of a snowpack using a SMP penetrometer

*A.Y. Komarov, Y.G. Seliverstov, S.A. Sokratov, P.V. Grebennikov
Lomonosov Moscow State University, Laboratory of snow avalanches and debris flows, Moscow, Russia*

17¹⁰ – 17³⁰

Hard rime buried in snow as following one of the factors of avalanche formation in Hibins

A.A. Muzychenko¹, A.V. Volkov², M.V. Ryabchikov²

¹*Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia*

²*Avalanche safety department, JSK Apatit, Kirovsk, Russia*

17³⁰ – 18⁰⁰

Discussion

19⁰⁰

Standing Buffet. Restaurant "Bounty Hall", Sakhalinskaya st., 131

Tuesday, 3^d October

*Special Design Office of the Automation Devices for Marine Research of the Far East
Branch of RAS, Conference Hall, 2nd floor*

10⁰⁰ – 11⁰⁰

Section III. Mountain Hydrometeorology.

Chairman: Dr. Vinogradov A.Y., Gidrotehproekt Ltd., St. Petersburg, Russia

10⁰⁰ – 10²⁰

Modelling of snow cover characteristics and runoff in small mountainous watersheds of Eastern Siberia

T.A. Vinogradova^{1,2}, O.M. Makarieva^{1,2,3}, A.Y. Vinogradov², L.S. Lebedeva³, N.V. Nesterova¹

¹ Saint-Petersburg State University, St. Petersburg, Russia

² Gidrotehproekt Ltd., St. Petersburg, Russia

³ Melnikov Permafrost Institute, Yakutsk, Russia

10²⁰ – 10⁴⁰

Autonomous weather stations for environmental monitoring in remote and mountainous areas

S.A. Kurakov

Institute of Monitoring of Climatic and Ecological Systems of the Siberian Branch of the Russian Academy of Sciences (IMCES SB RAS), Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russia

10⁴⁰ – 11⁰⁰

Subsurface flowpaths as a key component for snowmelt and rainfall floods in mountainous rivers

V.V. Shamov^{1,2}, B.I. Gartsman^{3,1}, E.A. Shekman¹, A.M. Tarbeeva⁴, T.S. Gubareva^{3,1}, G.A. Chelnokov⁵, S.Yu. Lupakov^{1,6}, N.K. Kozhevnikova⁷, M.L. Burdukovskiy⁷, A.V. Orlyakovskiy^{6,1}

¹ Pacific Institute of Geography FEB RAS, Vladivostok, Russia

² Mel'nikov Permafrost Institute SB RAS, Yakutsk, Russia

³ Water Resources Institute RAS, Moscow, Russia

⁴ Lomonosov Moscow State University, Russia

⁵ Far East Geological Institute FEB RAS, Vladivostok, Russia

⁶ Far East Federal University, Vladivostok, Russia

⁷ Federal Scientific Center of Terrestrial Biodiversity of East Asia, Vladivostok, Russia

11⁰⁰ – 11⁴⁰

Section IV. Different aspects of snow studies.

Chairman: Ph.D. Yu. V. Gensiorovskiy, the Research Center for the Study of Geodynamic Processes "Geodynamics", Yuzhno-Sakhalinsk, Russia

11⁰⁰ – 11²⁰ **The ninth wave: an unexpected aspect of in search of Sun-Earth connections climate processes**
 G.E. Glazyrin¹, N.A. Kazakov²
¹National University of Uzbekistan, Tashkent, Uzbekistan
²Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia

11²⁰ – 11⁴⁰ **Influence of anomal combination of weather conditions of winter 2015/16 on wood plants near Yuzhno-Sakhalinsk**
 V.V. Sheiko¹, Y.V. Gensiorovskiy²
¹Sakhalin Department of Botanical Garden-Institute FEB RAS, Yuzhno-Sakhalinsk, Russia
²Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia

11⁴⁰ – 12¹⁰ **Coffee Break**

12¹⁰ – 12⁵⁰ **Section V. Design and construction in snowy regions, including ski resorts.**

Chairman: Prof. C. de Jong, the Institute of Imagery, City and Environment Faculty of Geography and Spatial Planning of University of Strasbourg, Strasbourg, France, Ex-President of Cryospheric Sciences of the European Geosciences Union

12¹⁰ – 12³⁰ **Snow as a factor causing the occurrence of dangerous natural processes affect the functioning of ski resorts and risks for territories populated checkpoints located in the immediate vicinity of the resorts for example, construction STK Gorny Vozduh (Mountain Air), Sakhalin Island**
 Yu. V. Gensiorovskiy, N.A. Kazakov
 Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia

12³⁰ – 12⁵⁰ **Snow clearance as an effective way to preserve permafrost-based linear infrastructures in the cryolithozone**
 V.G. Kondratiev
 Transbaikal State University, Chita, Russia

12⁵⁰ – 13¹⁰ **Analysis of avalanche mitigation measures for avalanche risk assessment in Krasnaya Poliana**
 P.M. Rodionova, A.Yu. Komarov, A.S. Turchaninova, Yu.G. Seliverstov
 Faculty of Geography, Lomonosov Moscow State University, Moscow, Russia

13¹⁰ – 13³⁰ **Poster Session**

Mountain Hydrometeorology. Design and construction in snowy regions, including ski resorts.

13¹⁰ – 13³⁰ Poster Presentations

Spatiotemporal changes in air temperature and precipitation in the basin of the river Tekes (Kazakhstan)

N.V. Pimankina, Z.S. Usmanova

LLC "Institute of Geography" MES RK, Almaty, Kazakhstan

Snow hazards on Sakhalin Island

E.N. Kazakova, V.A. Lobkina

Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia

Use of remote sensing methods for research of anthropogenic snow patches

V.A. Lobkina, Y.V. Gensiorovskiy, E.N. Kazakova, A.A. Muzychenko

Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia

Study of snow loading on roof

V.A. Lobkina¹, I.A. Kononov¹, A.A. Potapov²

¹ *Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia*

² *Special Research Bureau for Automation of Marine Researches, Far Eastern Branch RAS, Yuzhno-Sakhalinsk, Russia*

Assessment of hazardous snowfalls and snowloads in the mountains of Kazakhstan

N.V. Pimankina

LLC "Institute of Geography" MES RK, Almaty, Kazakhstan

Types of extreme snowfall manifestation

D.A. Fedotova

Lomonosov Moscow State University, Moscow, Russia

13³⁰ – 15⁰⁰

Lunch

15⁰⁰ – 17⁰⁰

Section VI. Avalanche danger rating; avalanche protection.

Chairman: Ph.D. S. Yamaguchi, Research Institute for Earth Science and Disaster Resilience, Nagaoka, Japan

15⁰⁰ – 15²⁰

Global warming reduces the consequences of slushflows

E. Hestnes, S. Bakkehøi, C. Jaedicke

Norwegian Geotechnical Institute, Oslo, Norway

15²⁰ – 15⁴⁰

Geocological assessment of the susceptibility of mountain regions to snow avalanches processes

E.V. Kyul

Federal State Budgetary Scientific Institution "Federal Scientific Center "Kabardino-Balkar Scientific Center of the RAS", Center of Geographical Studies, Nalchik, KBR, Russia

15⁴⁰ – 16⁰⁰

A methodology for the assessment of impacts of snow avalanches in mountain landscapes

E.V. Kyul

Federal State Budgetary Scientific Institution "Federal Scientific Center
"Kabardino-Balkar Scientific Center of the RAS", Center of Geographical
Studies, Nalchik, KBR, Russia

16⁰⁰ – 16²⁰

Coffee Break

16²⁰ – 16⁴⁰

**A revised assessment of snow avalanche risk in the region of the ski resort
"Shymbulak"**

V.V. Zhdanov

Institute of Geography, Almaty, Kazakhstan

16⁴⁰ – 17⁰⁰

Avalanche protection of the Far Eastern railway in the Sakhalin Region

S.I. Chebotaryov, O.V. Parshukova, A.V. Altukhov, A.B. Bu, V.V.

Lozhkomoev

*Branch of Open Joint Stone Company «Russian Railways», Central Directorate
of Infrastructure, Far Eastern Directorate of Infrastructure, Center of
Diagnostics and Monitoring of Infrastructure Devices, Yuzhno-Sakhalinsk,
Russia*

17⁰⁰ – 17³⁰

Discussion

Wednesday, 4th October

*Special Design Office of the Automation Devices for Marine Research of the Far East
Branch of RAS, Conference Hall, 2nd floor*

10⁰⁰ – 12²⁰

Section VII. Avalanche processes: study and modeling

Chairman: •Prof. K. Nishimura, the Graduate School of Environmental
Studies, Nagoya University, Nagoya, Japan

10⁰⁰ – 10²⁰

**Hazard mapping of snow avalanche flow with polynomial chaos
quadrature**

Nishimura K.¹, Tsunematsu K.², Mori K.³, Patra A.⁴

¹*Graduate School of Environmental Science, Nagoya University, Nagoya,
Japan*

²*Mount Fuji Research Institute, Yamanashi Prefectural Government, Fuji-
Yoshida, Yamanashi, Japan*

³*ITOCHU Techno-Solutions Corporation, Tokyo, Japan*

⁴*University at Buffalo, The State University of New York, Buffalo, NY, U.S.A.*

10²⁰ – 10⁴⁰

**A numerical model for avalanche motion considering non-newtonian fluid
rheology, turbulence and slope material entrainment**

J.S. Zayko¹, M.E. Eglit²

¹*Institute of Mechanics, Lomonosov Moscow State University, Moscow, Russia*

²*Faculty of Mechanics and Mathematics, Lomonosov Moscow State University,
Moscow, Russia*

10⁴⁰ – 11⁰⁰ **Snow avalanches induced by a large earthquake in winter 2011**
 Ito Y.
Snow and Ice Research Center, National Research Institute for Earth Science and Disaster Resilience, Japan

11⁰⁰ – 11²⁰ **The maximum volume of avalanches in the low mountains of Sakhalin Island**
N.A. Kazakov, Yu. V. Gensiorovskiy
Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia

11²⁰ – 11⁴⁰ Coffee Break

11⁴⁰ – 12⁰⁰ **Avalanche forecasting system developed by National Research Institute For Earth Science And Disaster Resilience, Japan**
S. Yamaguchi¹, H. Hirashima¹, Y. Ito¹, H. Motoyoshi¹, M. Nemoto²
¹*Snow and Ice Research Center (SIRC), National Research Institute for Earth Science and Disaster Resilience (NIED), Japan*
²*Shinjo Cryospheric Environment Laboratory, SIRC, NIED, Japan*

12⁰⁰ – 12²⁰ **Rheological properties of moving snow and their influence on avalanche dynamics**
M.E. Eglit¹, A.E. Yakubenko², Ju.A. Drozdova³
¹*Lomonosov Moscow State University, Moscow, Russia*
²*Institute of Mechanics Lomonosov Moscow State University, Moscow, Russia*
³*Gubkin Russian State University of Oil and Gas, Moscow, Russia*

12²⁰ – 12⁴⁰ Poster Session

Avalanche danger rating; avalanche protection.

12²⁰ – 12⁴⁰ Poster Presentations

Avalanche risk for transporting systems in the Sakhalin Region

N.A. Kazakov, Yu.V. Gensiorovskiy

Sakhalin Department of Far East Geological Institute FEB RAS, Yuzhno-Sakhalinsk, Russia

A methodology for the creation of an atlas of avalanche activity in the Kabardino - Balkarian Republic

E.V. Kyul

Federal State Budgetary Scientific Institution "Federal Scientific Center "Kabardino-Balkar Scientific Center of the RAS", Center of Geographical Studies, Nalchik, KBR, Russia

Creating a dictionary of avalanche landforms

E.V. Kyul

Federal State Budgetary Scientific Institution "Federal Scientific Center "Kabardino-Balkar Scientific Center of the RAS", Center of Geographical Studies, Nalchik, KBR, Russia

12⁴⁰ – 13⁰⁰

Discussion

13⁰⁰ – 14³⁰

Lunch

14³⁰ – 15³⁰

Section VIII. Avalanche protection.

Chairman: Ph.D. A.L. Shnyparkov, Lomonosov Moscow State University, Moscow, Russia

14³⁰ – 14⁵⁰

Trumer anti-avalanche systems

Haidn M., Ilja.Ponomarjov
Trumer Schutzbauten GmbH

14⁵⁰ – 15¹⁰

An early-warning avalanche system and its first test results

S.V. Pilgaev ¹, P.A. Chernous ², M.V. Filatov ¹, A.V. Larchenko ¹,
Yu.V. Fedorenko ¹, I.V. Ageev ³

¹ *Polar Geophysical Institute, Russia*

² *Individual Entrepreneur, Russia*

³ *Department of Avalanche Safety, "Apatit" JSC, Russia*

15¹⁰ – 15³⁰

Modern avalanche protection system Gazex, Daisy bell, O bellx

D. V. Tetekin
OOO "Ski Engineering"

15³⁰ – 16⁰⁰

Coffee Break

16⁰⁰ – 17⁰⁰

Round Table "Problems In Snow-Bound Regions"

17⁰⁰ – 17³⁰

SYMPOSIUM FINAL SITTING

Thursday, 5th October

9⁰⁰ - 19⁰⁰

Field Trip "Avalanche hazard of South Sakhalin"

Route: Yuzhno-Sakhalinsk - Ogonki - Nevelsk - Gornozavodsk

Friday, 6th October

9⁰⁰ - 13⁰⁰

Field Trip "Avalanche catchments of Susunaiskiy Ridge"

Route: the neighborhood Yuzhno-Sakhalinsk

13⁰⁰ - 18⁰⁰

BANQUET

Recreation center "Aquamarine", village Lesnoye, the shore of the Okhotsk sea

FINANCIAL SUPPORT

The government of the Sakhalin region
Nonprofit Organization Research Center for the Study of geodynamic processes
"Geodynamics"
Federal Agency for Scientific Organizations

ADDRESS, PHONES

694023, Russian Federation, Yuzhno-Sakhalinsk, Gorkogo 25,
Sakhalin Department of Far East Geological Institute FEB RAS
Tel.: (+7) 4242-75-13-35, 4242-75-13-36
Fax: (+7) 4242-75-13-36
E-mail: snowphysics@yandex.ru