DEBRIS FLOWS: DISASTERS, RISK, FORECAST, PROTECTION

5th International Conference. Tbilisi, Georgia, 1-5 October 2018

СЕЛЕВЫЕ ПОТОКИ: КАТАСТРОЫ, РИСК, ПРОГНОЗ, ЗАЩИТА

5-я международная конференция. Тбилиси, Грузия, 1-5 октября 2018 г.

ღვარცოფები: კატასტროფები, რისკი, პროგნოზი, დაცვა

მე–5 საერთაშორისო კონფერენციის. თბილისი, საქართველო, 1–5 ოქტომბერი, 2018



Programme of the conference

Программа конференции კონფერენციის პროგრამა



Conference location

Administrative building of the Georgian Technical University, 77 Merab Kostava St., Tbilisi, Georgia (http://gtu.ge/Eng/)



Tbilisi City. View from Narikala Fortress.



Georgian Technical University.
Administrative building



https://binged.it/2NUVmnO

The conference will be held on the second floor in the large conference hall (LCH) and conference room (CR).

The Exhibition and Poster session will be held in the foyer in front of the conference hall.



Sessions and conveners

	OCTOBER 1, 2018		
8:00-9:00	Registration of participants		Foyer
9:00-9:45	Opening Ceremony. Greetings		LCH
09:45-11:15	A1. Plenary session	Gavardashvili G.,	LCH
		Chernomorets S.	
11:15-13:00	A2. Debris flow risk reduction: from science to	Tovmasyan K.,	LCH
	practice and international collaboration	Gaprindashvili G.	
14:30-16:00	A3. Debris flows and climate	Jomelli V., Yafyazova R.	LCH
16:15-18:00	A4. Debris flow disasters	Wei F., Garankina E.	LCH
18:00-19:00	Concert for participants of the conference		LCH
	OCTOBER 2, 2018		
09:00-11:00	B1. Debris flow mitigation and monitoring	Strom A.	LCH
09:00-11:00	B2. Debris flow hazard assessment	Shnyparkov A., Kadetova	CR
		A.	
11:15-13:00	B3. Modelling of debris flows and floods	Bartelt P., Kidyaeva V.	CR
11:15-13:00	B4. Debris flow formation in different conditions Talanov E., Kozir		LCH
14:30-15:45	B5. Regional analysis of debris flows	Sokratov S., Pryakhina G.	LCH
16:00-17:30	B6. Where will disaster happen next? Modelling future lakes for risk management and decision-making	Shahgedanova M., Kapitsa V.	LCH
17:30-18:15	B7. Poster session		Foyer
17:30-18:30	B8. Meeting for members of the Presidium of the Debris Flow Association and of the Organizing Committee		LCH
19:00	Gala-Dinner		
	OCTOBER 3, 2018		
09:00-09:15	Special announcement	Husani H., Bobov R., Chernoimorets S.	LCH
9:15-11:00	C.1 methods and results of debris flow investigations Ranova S.		LCH
11:15-13:00	C2. Methods and results of debris flow investigations Kazakov N., Vinogradova T.		LCH
14:30-16:00	C3. Methods and results of debris flow investigations	Kalov R.	LCH
16:00-17:00	Discussion and resolution	Chernomorets S., Gavardashvili G.	LCH
17:00-17:30	Closing Ceremony		LCH

Exibitions (October 1, 2, 3)

IBTP Koschuch e.U.
Geobrugg AG
Geo-Barrier
Caucasus Road Project



Sessions schedule

Last name	First name	Title of presentation		
OCTOBER 1, 2018				
		REGISTRATION OF PARTICIPANTS		
Prangishvili A., K	OPENING CEREMONY: Greetings Prangishvili A., Khutsishvili S., Jomelli V., Tovmasyan K., Chernomorets S., Wei F., Solomina O., Bekkiev M., Tokmajyan O.			
	Co	A1. PLENARY SESSION onveners: Gavardashvili G., Chernomorets S. 09:45-11:15		
Blagovechshenskiy	Victor	The debris flows automated monitoring system project in Ile Alatau Medeu A., Blagovechshenskiy V., Askarova M., Gulyaeva T., Ranova S.		
Gavardashvili	Givi	Hydraulic calculation of anti-mudflow structure with a bottom grating to extinguish the kinetic energy of non-cohesive debris flow to transform it into an ordinary silt-carrying flow Natishvili O., Gavardashvili G.		
Fuchs	Sven	Impact forces of torrential floods on exposed buildings Fuchs S., Sturm M., Keller F., Mazzorana B., Papathoma-Köhle M., Aufleger M., Gems B.		
	COFFEE BREAK 10:53-11:15			
A2. DEBRIS FLO	A2. DEBRIS FLOW RISK REDUCTION: FROM SCIENCE TO PRACTICE AND INTERNATIONAL COLLABORATION Conveners: Tovmasyan K., Gaprindashvili G. 11:15-13:00			
Tovmasyan	Kristine	Using science for disaster risk reduction and enhanced international cooperation: gaps and challenges Toymasyan K.		
Strom	Alexandr	A roadmap for cooperation on slope process-related disaster in Central Asia Strom A.		
Gaprindashvili G.	George	Geoecological condition of Tbilisi city and debris/mudflow hazard risk Tsereteli E., Gaprindashvili G., Gaprindashvili M., Kurtsikidze O.		
Su	Fenghuan	Debris flow hazards along the China-Pakistan highway in Xinjiang territory Su F., Ge Y.		
Kayumov	Abdulhamid	Prospects and ways of cooperation on the study of breakthrough glacial lakes and the development of adaptation measures to reduce damage at the national and regional levels **Kayumov A.**		
Zinevich	Yuriy	Designing and building of mudflow protection dams in Kazakhstan. The present stage 2008-2018 Bakarasova T., Zinevich Yu., Khozhanazarov Ye.		
GROUP PHOTO 01.10.2018 13:00-13:15				
LUNCH BREAK 13:15-14:30				



Last name	First name	Title of presentation	
		OCHOPED 4 Ando	
		OCTOBER 1, 2018	
		A3. DEBRIS FLOWS AND CLIMATE	
		Conveners: Jomelli V., Yafyazova R.	
	T	14:30-16:00	
Jomelli	Vincent	Respective influence of environmental and climate conditions on debr flow occurrence in the northern French Alps	
Julieni	Vilicent	Jomelli V., Eckert N., Pavlova I., Giacona F.	
		The debris flow risk in Russia in the middle and the end of the XXI	
Sokratov	Sergey	century	
	2 8 - 7	Sokratov S., Derkacheva A., Khismatullin T., Shnyparkov A.	
		The meteorological waring method of China geological disasters induc	
Li	Yumei	by precipitation	
		Li Yu., Li W., Di J., Zhang G., Bao H.	
		The approbation of debris flows forecast methodology for the glacia	
Seinova	Irina	region of Central Caucasus	
		Seinova I., Andreev Y., Krylenko I., Bogachenko E., Feoktistova I.	
		Possible impact of climate and weather condition on debris flows	
Nikolova	Nina	occurrence (on the example of Kresna gorge, Bulgaria) Nikolova N., Rachev G., Kenderova R.	
		COFFEE BREAK 16:00-16:15	
		A4. DEBRIS FLOW DISASTERS	
		Conveners: Wei F., Garankina E.	
		16:15-18:00	
Comonoia	Dinalda	The debris flow generated by the Stava (Northern Italy) tailing pond d	
Genevois	Rinaldo	break Genevois R., Tecca P.	
		Geological and geotechnical findings of the catastrophic debris flow no	
Keilig	Klaus	Tskneti, Georgia, June 2015	
ixing	Islaus	Neumann P., Bauer M., Haidn M., Keilig K., Menabde Z., Dumbadze D.	
	1	Potential danger of dammed lakes induced by the 2017 Ms6.9 Milin	
Hu	Kaiheng	earthquake in the Tsangpo gorge.	
		Hu K., Zhang X., Tang J., Liu W.	
		The outburst of Bashkara glacier lake (Central Caucasus, Russia) or	
		September 1, 2017	
Petrakov	Dmitry	Chernomorets, S., Petrakov D., Aleynikov A., Bekkiev M., Viskhadzhieva, I	
		Dokukin M., Kalov R., Kidyaeva V., Krylenko V., Krylenko I., Krylenko I., I	
		E., Savernyuk E., Smirnov A.	
		Geomorphic and dendroecological affects of 2017 debris flow in the	
Garankina	Ekaterina	Sengisook Valley, Western Lovozerskiye Tundry, Northwestern Russ	
		Garankina E., Belyaev V., Bondar A., Romanenko F., Rudinskaya A., Shishi	
<i>Y</i> .			
G			
Concert of the choir and dance group of the Georgian Technical University for participants of the			
Concert of th		conference	



Last name	Last name First name Title of presentation			
	OCTOBER 2, 2018			
	B1. DEBRIS FLOW MITIGATION AND MONITORING			
	DI. DEDICIO	Convener: Strom A.		
		09:00-11:00		
Matsiy	Sergey	Debris flow risk assessment and management Matsiy S., Sukhlyaeva L., Lesnoy V.		
		Pulse-doppler RADAR-system for Alpine mass movement		
Koschuch	Richard	monitoring		
		Koschuch R.		
Zhang	Shaojie	An experimental evaluation of impact force on a Fiber Bragg Grating-based device for warning dangerous level of debris flow		
Zhang	Silaojie	Zhang S., Chen J.		
		Experience in the design and operation of mudflow and mudflow		
Bogdanov	Ivan	control structures at the facilities of the Western Caucasus		
		Bogdanov I., Aleksandrov P.		
Hofmann	Helen	Multi-level flexible debris flow barrier: case study in Peru		
	1101011	Wendeler C., Salzmann H., Feiger N., Hofmann H.		
Cl	T	Discussion on the characteristics and calculation method of material		
Chen	Long	source for the debris flow in Tian Mo Gully Chen L., Wang J., Li Y., Jiu J., Shi S.		
		The prediction of surface position of sediments in the upper bay of		
Baljyan	Pargev	mudflow protection structures		
24.33 4.11	T unge v	Baljyan P., Tokmajyan V., Baljyan V., Bayunts A.		
	•			
		BRIS FLOW HAZARD ASSESSMENT		
	Conv	veners: Shnyparkov A., Kadetova A.		
	1	11:15-13:15 Use of space weather indicators for operational forecast of		
Malneva	Irina	mudflows		
Withhert	111114	Malneva I., Cherkesov A.		
		Climatology of debris-flow forming precipitation in Caucasus:		
Talanov	Yevgeniy	hypotheses and facts		
		Talanov Ye.		
		Comparative assessment of mudflow activity in the geographical		
Kondratieva	Natalia	regions of the North Caucasus (from east to west and from north to		
		south): by type, genesis and volume of removals Kondratieva N., Adzhiev A., Razumov V., Bekkiev M.		
	+	Formation conditions and hazard analysis of debris flows in the		
Rybchenko	Artem	Tunka ridge, Siberia, Russia		
y		Rybchenko A, Kadetova A., Kozireva E.		
		Regional danger assessment of debris flow and its engineering		
Su	Pengcheng	mitigation practice in Sichuan-Tibet highway (section of Luding-		
, Ju	1 ongoneng	Kangding)		
		Su P., Wei F., Sun Z., Li Y.		
Kuksina	Lyudmila	Lahar danger of rivers in the territory of active volcanism in Kamchatka, Russia		
Nunsilia	Lyuuiiiia	Kamenatka, Kussia Kuksina L., Muravyev Ya., Marchenko E.		
		Analysis of the state of outburst lakes along the Gunt River valley in		
Shafiev	Ganjalli	the South-Western Pamirs		
		Shafiev G.		
Landscape dynamics in the zone of debris flow release in 201				
Petrushina	Marina	Elbrus region		
	Petrushina M.			
COFFEE BREAK 11:00-11:15				
COFFEE DREAK 11,00-11,15				



Last name	First name	DE TIO Debris Flows: Disasters, Risk, Forecast, Protection Title of presentation		
	•	•		
		OCTOBER 2, 2018		
	B3. MODELLING OF DEBRIS FLOWS AND FLOODS			
		onveners: Bartelt P., Kidyaeva V.		
		14:45-16:15		
		Modeling of unsteady water movement on the example of debris		
Kurovskaya	Viktoria	flows and flash floods		
		Kurovskaya V., Vinogradova T.		
		Remote sensing techniques and numerical simulation of debris flows in the Akhangaran and Tegermech rivers basins, using RAMMS		
Semakova	Eleonora	software		
		Semakova E., Alimov Yo., Sichugova L., Semakov D., Graf C.		
		Calculation of the characteristics of catastrophic floods in the basins		
Vinogradova	Tatyana	of the rivers of the Black Sea coast of the Krasnodar region		
		Vinogradova T., Makarieva O.M., Vinogradov A., Nesterova N.		
Gergokova	Zaina	The debris flow speed determining methods		
		Sherkhov A., Gegiev K., Gergokova Z. Assessment of dynamic characteristics of debris flow		
Sokolova	Daria	Sokolova D.P, Vinogradova T.A., Ostashov A.A.		
		Modelling of the 1st September 2017 Bashkara lakes outburst		
Kidyaeva	Vera	Kidyaeva V., Petrakov D., Chernomorets S., Krylenko I., Aleynikov A.,		
		Stoffel M., Graf C.		
B4	B4. DEBRIS FLOW FORMATION IN DIFFERENT CONDITIONS			
	Co	onveners: Talanov E., Kozireva E. 11:15-13:00		
	T	Debris flow phenomena in the Lovozerskiye Tundry		
Rudinskaya	Anna	Rudinskaya A., Belyaev Y., Gurinov A., Garankina E.		
		Conditions and mechanism for formation of glacial debris flows in		
Zhang	Jiajia	Parlung Zangbo, SE Tibetan Plateau		
		Zhang J., Liu J., Li Y., Wang J., Chen L., Gao B.		
Tokmajyan	Hovhannes	About the methodology of assessment of damage caused by mudflow action		
Tokinajyan	Hovitainies	Markosyan A., Tokmajyan H., Hayrapetyan V., Ivanyan G.		
T7 1	N7'1 1	Phase transformations in debris flow geosystem		
Kazakov	Nikolay	Kazakov N.		
		Traditions of mudflow studies in the Institute of Hydrometeorology		
Kherkheulidze	Georgi	of Georgian Technical University (assessments, prospects)		
		Kherkheulidze G. Debris flow activity on the northern slope of the greater Caucasus		
Karavaev	Vadim	and morphometry of relief		
		Karavaev V., Seminozhenko S.		
Ayrapetyan	Vrezh	Features of the formation of river-bed for the Tartar River		
Ayrapetyan	V I CZII	Tokmajyan O., Sarkisyan V., Ayrapetyan V., Eroyan E.		
N #-1	T*	Modern problems of forecasting mudslides in Georgia and in		
Malneva	Irina	adjacent territories <i>Malneva I., Kononova N.</i>		
		maneva I., Rononova IV.		
	LUNCH BREAK 13:15-14:30			
	B5. REGIONAL ANALYSIS OF DEBRIS FLOWS			
	Conveners: Sokratov S., Pryakhina G. 14:30-15:45			
		Fast changes of the source area of catastrophic debris flows in		
Kovalenko	Nikolay	Kolka Glacier cirque (Central Caucasus)		
		Kovalenko N., Aristov K., Petrakov D., Kolchin A., Timonin S.		
Bartelt	Perry	Thermomechanical analysis of a large rock/ice avalanche to resolve the cause of subsequent debris flows		
Daltell	1 city	Bartelt P., Buser O.		
		Daniell I., Duser O.		



Селевые потоки: кат	Селевые потоки: катастрофы, риск, прогноз, защита DF18 Debris Flows: Disasters, Risk, Forecast, Protection			
Last name	First name	Title of presentation		
	OCTOBER 2, 2018			
Popov	Sergey	Dangerous hydrological phenomenas near the infrastructure of the "Progress" station, East Antarctica, in 2017-2018 Popov S., Boroniva A., Pryakhina G.		
Chernous	Pavel	Slushflow release forecasting Chernous P., Volkov A., Sokolova D.		
Shnyparkov	Alexandr	Debris flow hazard for the transport communications of the Eastern Siberia and the Far East Shnyparkov A., Derkacheva A., Khismatullin T., Sokratov S.		
Zelepukina	Yelena	Prerequisite for enhanced mudflow activity in West Sayan Mountains Zelepukina E., Pryakhina G., Gavrilkina S.		
	COFFEE BREAK 15:45-16:00			
B6. WHER	B6. WHERE NEXT? MODELLING FUTURE LAKES FOR RISK MANAGEMENT AND DECISION-MAKING Convener: Shakhgedanova M. 16:00-17:30			
Shahgedanova	Maria	Projections of the development of future glacial lakes in Central Asia and in the Caucasus using GlabTop2 model Kapitsa V., Shahgedanova M., Machguth H., Severskiy I., Medeu A.		
Kapitsa	Vasiliy	Discussion in groups using examples from different regions and focusing on data transfer to stakeholders and its implementation in practice		



B7. POSTER SESSION 17:30-18:15
B7. POSTER SESSION 17:30-18:15 B87. POSTER SESSION 17:30-18:15 Geomorphological and geological analysis of Akchour landslide in Rif Mountain, Morocco Harmouzi H., Dekayir A., Rouai M. Prühwirth Sandra Debris flow simulation from hazard events near Akhaldaba Frühwirth S., Otto JC., Haidn M. Geological and geotechnical findings of the catastrophic debris flow near Tskneti, Georgia, June 2015 Neumann P., Bauer M., Haidn M., Keilig K., Menabde Z., Dumbadze D. How to effectively monitor geomorphic changes in debris flow channels Keilig K., Dietrich A., Krautblatter M. Nagl Georg Monitoring barrier for debris flow/structure/ground interaction Nagl G., Kaima R., Hübl J. The results of the bathymetric studies of the outbursting lakes in the area of Gorno Badakhshan Autonomous Oblast, Tajikistan Raimbekov Y., Pirmamadov U., Marodaseynov F., Zikillobekov I., Gulomaydarov A., Bobov R., Chernomorets S., Savernyuk E., Kidyaeva V. Automatic identification of debris flows by a combination of seismic
Abdelilah Geomorphological and geological analysis of Akchour landslide in Rif Mountain, Morocco Harmouzi H., Dekayir A., Rouai M.
Policy
Abdelilah Rif Mountain, Morocco Harmouzi H., Dekayir A., Rouai M.
Prühwirth Sandra Debris flow simulation from hazard events near Akhaldaba Frühwirth S., Otto JC., Haidn M.
Frühwirth Sandra Frühwirth S., Otto JC., Haidn M.
Haidn Markus Geological and geotechnical findings of the catastrophic debris flow near Tskneti, Georgia, June 2015 Neumann P., Bauer M., Haidn M., Keilig K., Menabde Z., Dumbadze D. How to effectively monitor geomorphic changes in debris flow channels Keilig K., Dietrich A., Krautblatter M. Nagl Georg Monitoring barrier for debris flow/structure/ground interaction Nagl G., Kaitna R., Hübl J. The results of the bathymetric studies of the outbursting lakes in the area of Gorno Badakhshan Autonomous Oblast, Tajikistan Raimbekov Yusuf Raimbekov Y., Pirmamadov U., Marodaseynov F., Zikillobekov I., Gulomaydarov A., Bobov R., Chernomorets S., Savernyuk E., Kidyaeva V. Automatic identification of debris flows by a combination of seismic
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Raimbekov Yusuf Yusuf Raimbekov Yusuf Raimbekov Yusuf Raimbekov Y., Pirmamadov U., Marodaseynov F., Zikillobekov I., Gulomaydarov A., Bobov R., Chernomorets S., Savernyuk E., Kidyaeva V. Automatic identification of debris flows by a combination of seismic
Raimbekov Yusuf Raimbekov Y., Pirmamadov U., Marodaseynov F., Zikillobekov I., Gulomaydarov A., Bobov R., Chernomorets S., Savernyuk E., Kidyaeva V. Automatic identification of debris flows by a combination of seismic
Gulomaydarov A., Bobov R., Chernomorets S., Savernyuk E., Kidyaeva V. Automatic identification of debris flows by a combination of seismic
V. Automatic identification of debris flows by a combination of seismic
Automatic identification of debris flows by a combination of seismic
Schimmel Andreas and infrasound signals
Schimmel A., Hübl J.
Tielidze Levan Rock-Ice Flows History onto Devdoraki Glacier, Georgian Caucasus Tielidze L., Kumladze R., Wheate R., Gamkrelidze M.
Actions for protection of infrastructure against mudflows of Western
Yefremov Yuriy Caucasus (in the Lagonaki Highlands)
Efremov Yu., Shulyakov D.
Khismatullin Timur Debris flows on the Matua Island Khismatullin T., Shnyparkov A.
The role of the debris flow pass construction in mouth part of debris
Bobrova Darya flow rivers of Sakhalin Island
Kazakova E., Bobrova D.
Assessment and analysis of the freeze-thaw erosion sensitivity in the
Fan Jianrong Tibet of China Fan J., An. C.
Debris flow engineering protection on Sakhalin Island
Kazakova Ekaterina Kazakova E., Kazakov N., Gensiorovskiy Yu.
An integrated approach to the creation of the engineering protection
against debris flow processes on marine terraces of the Sakhalin
Rybalchenko S., Verkhovov K.
Rybalchenko Svetlana The difference of slope debris flows from other exogenous processes
Rybalchenko S., Verkhovov K.
The motion of the solid phase in a turbulent debris flow
Verkhovov K., Rybalchenko S. Engineering control of debris flow in Luding County New Town,
Xie Hong Hengduan Mountains Area, China
Xie H., Li Y., Wang S., Zhang J., Yu B.
Analysis of debris flows by application of GIS and remote sensing:
Kenderova Rossitza case study of western foothills of Pirin Mountains (Bulgaria)
Baltakova A., Nikolova V., Kenderova R., Hristova N. The 4 September 2017 rain mudflows in the northern part of
Kotenko Tatiana Paramushir Island, the Kuril Islands
Kotenko T., Kotenko L.



Last name	First name	Title of presentation
		OCTOBER 2, 2018
Raimbekov	Yusuf	Results of bathymetric surveys for outburst-hazardous lakes in Gorno-Badakhshan Autonomous Region, Tajikistan Pirmamadov U., Raimbekov Y., Marodasenov F., Zikillobekov I., Gulomaidarov A., Bobov R., Chernomorets S., Kidyaeva V., Savernyuk I.
Savernyuk	Elena	The Devdorak ice-rock avalanche and consequent debris flow from the slope of Mt. Kazbek (Caucasus, Georgia) in 2014 Chernomorets S., Savernyuk E., Petrakov D., Dokukin M., Gotsiridze G. Gavardashvili G., Drobyshev V., Tutubalina O., Zaporozhchenko E., Kamenev N., Kamenev V., Kääb A., Kargel J., Huggel C.
B8. MEETING FOR MEMBERS OF THE PRESIDIUM OF DEBRIS FLOW ASSOCIATION AND OF THE ORGANIZING COMMITTEE 17:30-18:30		

Last name	First name	Title of presentation	
OCTOBER 3, 2018			
Husani	Hadi	Special announcement	
Bobov	Ruslan	09:00-09:15	
C. 1	I METHODS A	AND RESULTS OF DEBRIS FLOW INVESTIGATIONS	
		Convener: Ranova S.	
	T	9:15-11:00	
Nanitashvili	Manana	Origin and classification of debris flows	
1 (6111045)11 7 111	Tyturiuru	Nanitashvili M., Gurgenidze D., Inashvili I.	
Rouai	Mohamed	On power-law size distributions of landslides	
210000	11101111110	Rouai M., El Kharim Y.	
Boynagryan	Vladimir	Risk of debris flow forming in Armenia	
20jiiugi juli	v iudiiiii	Boynagryan V.R.	
		Forecasting colloidal fractions value transported by floods on the	
Supatashvili	Tamriko	example of Duruji Basin	
		Supatashvili T., Kupreishvili Sh., Sichinava P., Shavlakadze M., Dadiani K.,	
		Kiknadze K., Maisaia I.	
3 . T	Roman	Debris flows in mountain framing of the Boguty depression, SE Altai:	
Nepop		analysis of the landscape climatic factors and triggers	
		Nepop R., Agatova A.	
		Deterministic mathematical modeling method for estimation of instant	
Nesterova	Natalia	water discharges at small mountain catchments (by the example of	
		streams at the "Kolyma" federal highway)	
		Makarieva O., Nesterova N., Pashovkina A., Sokolova D.	
Stupin	Vladimir	Geoinformation system mapping of debris flow hazard Stupin V.P., Plastinin L. A., Olzoev B. N., Kotelnikova N.V.	
	Supin v.F., Flasimin L. A., Otzoev B. N., Kotetnikova N.V.		
COFFEE BREAK 11:00-11:15			
C2	C2. METHODS AND RESULTS OF DEBRIS FLOW INVESTIGATIONS		
Conveners: Kazakov N., Vinogradova T.			
11:15-13:00			



Last name	First name	Title of presentation	
	•		
	OCTOBER 3, 2018		
Garankina	Ekaterina	Debris flows as landsculpturing agent of modern valleys at the Kola peninsula low mountains, northwestern Russia Garankina E., Belyaev V., Belyaev Y., Gurinov A., Ivanov M., Kuzmenkova N., Romanenko F., Rudinskaya A., Surkov V., Tulyakov E.	
Strom	Alexandr	Reconstruction of debris floods caused by breach of the prehistoric rockslide dams in Central Asia and assessment of their parameters Strom A.L., Zhirkevich A.N.	
Viskhadzhieva	Karina	Geomorphological conditions for the formation of outburst floods in the Tien Shan and Hindukush Mountains Viskhadzhieva K., Chernomorets S., Savernyuk E., Dokukin M., Petrov M.	
Dokukin	Mikhail	Debris flows 14 and 15 August, 2017 in the basin of Gerhozhan-Su river (Central Caucasus): conditions and causes of formation, dynamics, consequences Dokukin M., Anaev M., Bekkiev M., Bogachenko E., Zaporozhchenko E., Kalov R., Savernyuk E., Chernomorets S., Khadjiev M., Khatkutov A.	
Znamensky	Dimitry	Brazilian tropical residual soils as solid phase sources of mud and debris flows induced by heavy rains Znamensky D.V.	
Romanenko	Fedor	Debris flows on the islands and coasts of the arctic seas $Romanenko\ F.$	
	LUNCH BREAK 13:00-14:30		
C3	. METHODS	AND RESULTS OF DEBRIS FLOW INVESTIGATIONS Conveners: Kalov R., Kondratieva N. 14:30-16:00	
Khismatullin	Timur	Debris flows on the Matua Island <i>Khismatullin T., Shnyparkov A.</i>	
Kazakov	Nikolay	Multiple debrisflows in the lowlands of the Sakhalin Island: conditions and repeatability Kazakov N.	
Fazylov	Ali	The debris flows hazard of the river Varzob Basin (Tajikistan) Fazilov A., Niyazov J., Saidov M., Talanov E.	
Makarova	Marina	Mountain ecosystems of Zhupanovsky Volcano (Kamchatka Peninsula, Russia) and their transformation under the influence of eruptions in 2013-2017 Makarova M., Dirksen V., Vladimirova N., Dirksen O.	
Lukashov	Andrey	Seismicity and debris flow relationship in Khibiny low mountains, Kola Peninsula, Russia Lukashov A., Garankina E.	
	COFFEE BREAK 15:45-16:00		
	DISCUSSION AND RESOLUTION Conveners: Chernomorets S., Gavardashvili G. 16:00-17:00		
Awarding Fleishman medals to laureates CLOSING CEREMONY 17:00-17:30			



Field Workshop (October 4-5, 2018)

The field workshop will be held on October 4-5, 2018 in Kakheti region (Telavi and Kvareli) and along the Georgian Military Road (Kazbegi). Workshop will include two one-day trips, with the return to Tbilisi in the evening.

The air temperature in the mountains of Georgia in early October may vary from +10 to +25 degrees. The Organizing Committee recommends the participants of the workshop to wear trekking shoes or sneakers, and to have clothes in the case of both sunny and rainy weather.

Buses will depart from the administrative building of GTU.



Kakheti region. St. George Cathedral (11th century) in Alaverdi Monastery established in 6th century



Protective dam destroyed by debris flows. Duruji River upstream of Kvareli town



Mt. Kazbek. Military Georgian Road area.



Debris flow catchments near Kvemo-Mleti village



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