

Institute of Hydrometeorology

Scientific Report

2013B

Direction I

Department of Water Resources and Hydrological Prognosis

Scientific-Research Works Planned and Implemented in 2013 Funded by the State Budget of Georgia

#	Work	Work Supervisor	Work Performers
1	The impact of climate change on the underground runoff and the drought dynamics in East Georgia (2012-2013)	Nodar Begalishvili PhD of Physical Mathematics	<u>Performers in charge:</u> T. Tsintsadze, V. Tsomaia, K. Tavartkiladze <u>Performers:</u> N. Begalishvili, N. Tsintsadze, N. Khupenia, G. Gachechiladze, L. Chareli, S. Gogrijanidze, N. Gogiberidze
#	Work	Work Supervisor	Work Performers
2	Assessment of the nature of the mudflow hazard in the Kvemo Svaneti region and identification of the distribution zones by making recommendations for the diminishing the damage (2011-2013)	Giorgi Kherkheulidze Acad. Doctor of Technical Sciences	<u>Performer in charge:</u> Giorgi Kherkheulidze

#	Work	Work Supervisor	Work Performers
3	Floods on the rivers of the mountain and their prediction in case of information scarcity (2011-2013)	Tsisana BasilaShvili PhD of Geographical Sciences	<u>Performer in charge:</u> Ts. Basilashvili <u>Performers:</u> G. Grigolia, S. Gorgijanidze, G. Pipia
#	Work	Work Supervisor	Work Performers
4	Reducing the irrigation water deficit in Eastern Georgia (2011-2013)	Omar Shvelidze Acad. Doctor of Technical Sciences	<u>Performer in charge:</u> O. Shvelidze <u>Performers:</u> I. Geladze, Zh. Mamasakhlisi

#	Work	Work Supervisor	Work Performers
5	Development of recommendations for anti-avalanche measures based on the identification of populated areas and the avalanches indicators (2012-2014)	Manana Salukvadze Acad. Doctor of Geographical Sciences	<u>Performers:</u> G. Jincharadze, N. Kobakhidze

DDirection II

Department of Climatology and agro-Meteorology

Scientific-Research Works Planned and Implemented in 2013 Funded by the State Budget of Georgia

#	Work	Work Supervisor	Work Performers
1	Climate Resources of Administrative Regions of Georgia (Imereti) (2011-2013)	Elizbar Elizbarashvili PhD of Geographical Sciences, Professor	<u>Performers in charge:</u> G. Meladze, R. Samukashvili <u>Performers:</u> J. Vachnadze, M. Meladze, N. Nebieridze, N. Vashakmadze, Ts. Diasamidze, Sh. Elizbarashvili

#	Work	Work Supervisor	Work Performers
2	Determining new construction climatic norms on the background of climate change (2012-2014)	Liana Kartvelishvili PhD of Geographical Sciences	<u>Performers::</u> R. Samukashvili J. Vachnadze I. Mkurnalidze N. Shavishvili r.

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Direction III

Department of Weather Forecast, Natural and Technogenic Disaster Modeling

Scientific-Research Works Planned and Implemented in 2013 Funded by the State Budget of Georgia

#	Work	Work Supervisor	Work Performers
1	Development of modeling system of local atmospheric processes with high resolution capabilities for the territory of Georgia (2010 - 2013)	Marika Tatishvili PhD of Physical Mathematics	<u>Performers in charge:</u> Z.Khvedelidze D. Demetrashvili <u>Performers:</u> G. Geladze I. Samkharadze, N. Zotikishvili

#	Work	Work Supervisor	Work Performers
2	Preparation of project on adaptation with climate change for rehabilitation of irrigation system in Outer Kakheti using solar power (2012-2014)	B. Beritashvili PhD of Geographical Sciences	<u>Performers:</u> N. Kapanadze, S. Mdivani
#	Work	Work Supervisor	Work Performers
3	Weather forecasting models for Georgian conditions (2012-2014)	Marika Tatishvili PhD of Physical Mathematics	<u>Performer in charge:</u> I. Mkurnalidze <u>Performers:</u>

			N. Kapanadze R. Meskhia
#	Work	Work Supervisor	Work Performers
4	Climate change impact assessment using remote control technologies in the glaciers of the Caucasus (2012-1014)	Larisa Shengelia Acad. Doctor of Physical Mathematics	<u>Performer in charge:</u> G. Kordzakhia <u>Performer:</u> N. Begalishvili

DDirection IV

Department of Environmental Pollution Monitoring and Forecasting

Scientific-Research Works Planned and Implemented in 2013 Funded by the State Budget of Georgia

#	Work	Work Supervisor	Work Performers
1	Examination of migratory ingredients into the transboundary rivers of Eastern Georgia (2011-2013)	Liana Intskirveli PhD of Chemical Sciences Nugzar Buachidze PhD of Chemical Sciences	<u>Performers in charge:</u> A. Surmava, L. Shavliashvili, G. Kuchava, N. Dvalishvili, M. Tabatadze <u>Performers:</u> N. Beglarishvili M. Khatiashvili A. Giorgobiani S. Mdivani
#	Work	Work Supervisor	Work Performers
2	Requirements for sustainable development in the field of environmental protection of Georgia (2012-2014)	Gari Gunia PhD of Geographical Sciences	<u>Performer in charge::</u> Gari Gunia
#	Work	Work Supervisor	Work Performers
3	Monitoring of negative impacts of cement factories on the	Nana Naskidashvili PhD of Chemical Sciences	<u>Performer in charge:</u> L. Shavliashvili

	environment in Eastern Georgia and development of mitigation measures (2010-2014)		<u>Performers:</u> N. Beglarishvili, N. Dvalishvili M. Khatiashvili
#	Work	Work Supervisor	Work Performers
4	Determination of greenhouse gas emission reduction as a result of reconstruction of Tbilisi entrance road (2013-2014)	Nazibrola Beglarishvili PhD of Geographical Sciences	<u>Performer in charge:</u> N. Naskidashvili <u>Performers:</u> A. Giorgishvili S. Mdivani M. Khatiashvili