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## “Integrated Land-use Management Modelling of Black Sea Estuaries (ILMM-BSE)” Project Training No 2 in Georgia: Catchment Hydrological Modelling

Training workshop on Catchment Hydrological Modelling was held in Hotel "Tbilisi", Ureki, Guria Region, Georgia, on 26<sup>th</sup> of April, 2014. The training was organized as part of the Integrated Land-use Management Modelling of Black Sea Estuaries (ILMM-BSE) project implemented with the financial assistance of the European Union in the framework of the Joint Operational Programme "Black Sea Basin 2007 – 2013".



The objective of the 2<sup>nd</sup> Training in Georgia was first to introduce participants with ILMM-BSE Project, its goals, objectives, content and methods and to discuss its implementation in Guria Region of Georgia, including earlier positive experiences within the framework of European projects; to provide information on water resources in Supsa and Natanebi River Catchments; to brief participants on main environmental issues such as nutrient loads to the Black Sea and international efforts to address these challenges; to share experience with flood modelling in lower reaches of Rioni River. After introductory session, in the main part of the training workshop, the participants were engaged in hands-on exercise of setting-up and calibrating the basic water quantity model on typical example of river catchment with characteristics quite similar to rivers in Guria Region – the Georgian case site of the ILLM-BSE project. It is kindly acknowledged, that the hands-on training package was defined based on the materials developed within the EC FP7 enviroGRIDS project, coordinated by University of Geneva (see <http://envirogrids.net>).

The 25 participants including 5 presenters and facilitators of the interactive training workshop included the experts from public institutions (Black Sea Commission Member from Georgia, Hydrology Department of National Environmental Agency of Georgia, Georgian State Hydrographic Service), representatives of local authorities (Chairman of Lanchkhuti Municipal Council, GIS Experts/Planners of Poti Municipality) and NGOs



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(Lanchkhuti Information Centre, Civitas Georgica, Caucasus Environmental NGO Network CENN, Association for Farmers Rights Defence AFRD, Foundation Caucasus Ecology, Community Development Association of Georgia), researchers/doctorants and students/magistrants from various universities of Georgia (Georgian American University, Batumi State University), professionals from various international projects (USAID Hydro Power and Energy Planning Project; EU-JOP Project Integrated Management of the Hot Spots and Saving the Living Ecosystem of the Black Sea; Polish-Georgian Flood Early Warning and Prevention Systems in Georgia: Kabali and Duruji Rivers), from national environmental consultancies (Gamma Consulting, WEG, DG Consulting), as well as from state utility company (Georgian Oil and Gas Corporation). The training program was set-up and facilitated by the Joint Research Coordinator of Civitas Georgica and Integrated Coastal Zone Management (ICZM) National Focal Point for Georgia.



The following presentations and training sessions were delivered to participants:

- Goals, objectives, content and expected outcomes of the ILMM-BSE Project – Dr. Mamuka GVILAVA on behalf of Mr. Giorgi MESKHIDZE (Coordinator of ILMM-BSE Project, President of Civitas Georgica).
- ICZM in Guria Coastal Region of Georgia: from PEGASO CASE to ILMM-BSE case – Mr. Amiran GIGINEISHVILI (Chairperson of Lanchkhuti Municipal Council, Guria Region and Member of ICZM Advisory Group to Black Sea Commission, MoENRP of Georgia).
- State of the eutrophication in the Black Sea and challenges with nutrient loads – Ms. Nino TSKHADADZE (Black Sea Commission Member from Georgia, Ministry of Environment and Natural Resources Protection of Georgia).
- Basic hydrology and meteorology of main river catchments of Guria Region – Dr. Vakhtang Geladze (National Environmental Agency, MoENRP of Georgia).
- Flood risk assessment and mitigation measure for Rioni River – Ms. Tamar TSAMALASHVILI, Project Expert, Civitas Georgica.
- Introduction into hydrological modelling of catchments – methodologies and tools – Dr. Mamuka GVILAVA (ICZM National Focal Point for Georgia and Joint Research Coordinator of ILMM-BSE Project for Civitas Georgica).
- Demonstration example of set-up & calibrating hydrological model – Dr. Mamuka GVILAVA.

To save the environment, all the training material (free and trial systems and software, example datasets, all presentations and methodological documentation) was distributed to participants via flash drives for use with own portable computers; paper was used only for documenting participant registration & evaluations.

For further information please contact:

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