

## VAZHA TRAPAIKIDZE



Associated Professor  
Department of Hydrology, Oceanology and Meteorology  
Faculty of Exact and Natural Sciences  
Ivane Javakhishvili Tbilisi State University  
e-mail: [vazha.trapaidze@tsu.ge](mailto:vazha.trapaidze@tsu.ge);  
Phone (office): +995 32 2290812; (mobile): +995 599 386030

### **Education**

- Bsc in Hydrology, Speciality Hydrology-Hydroecology, TSU, 1997
- Msc in Geography, Speciality Hydrology-Hydroecology, TSU, 1999
- PhD (Candidate of Science) Speciality Hydrology and Water Resources, TSU, 2005

### **Teaching Courses:**

General Hydrology; Hydrological Processes; Water Resource; Regional Oceanography;  
Hydrology of Water Reservoirs;

### **Research Interests**

Hydrology and Hydraulics, Water quality, Climate change impact, Hydroecology, Integrated Water Resources management, Coastal processes, Oceanography

### **Ongoing Projects**

- “SeaDataCloud” - Further developing the pan-European infrastructure for marine and ocean data management, Grant # 730960, “Horizon2020” Scientific Worker, 2016-2019
- “EMBLAS II” – Improving Environmental Monitoring in the Black Sea, Phase 2 - UNDP/EU, project # 88460 Scientific Worker, 2015-2018
- Sea Basin Checkpoints – EU, Scientific Worker, grant # SI2.709436, 2015-2018
- “The Remediation of the Areas Degraded by the Action of Snow Avalanches” SGP Grant Project – GEO/SGP/OP6/Y2/CORE/LD/17/06, 2017-2018
- 2017- “Improving the resilience of forest ecosystems through adaptive forest management in Georgia” (No-GE0055) German Federal Ministry for Economic Cooperation and Development (BMZ) and WWF Germany. Hydrologist, 2017
- EMODnet Data Ingestion - EU, EASME/EMFF/2015/011, 2016 – 2020.
- EMODNet 3 - EU, EASME - lot.4, Scientific Worker, 2016 – 2019.

## Publications:

1. "Complex evaluation of climate change – an example from Georgia's landscapes" Journal of Environmental Biology, JEB, Vol. 36, #1, pp.43-49, 2015
2. "ASSESSMENT OF RIVER BANK'S VULNERABILITY BY MATHEMATICAL MODELS" SGEM 2015, Vol I, pp-81-87, Bulgaria,
3. "Quantitative Assessment of Permissible Loads on Georgia's Soil", American Journal of Environmental Protection. Vol. 4, No. 3-1, 2015, pp. 29-33.
4. "Role of Irrigation Farming in the Perspective Development of Agriculture in Samtskhe Region" – Earth Sciences. Vol. 4, No. 5-1, 2015, pp. 13-18.
5. "Risk Analysis of the River Bank Washout and Flooding of the Areas" " Earth Sciences Vol. 4, No. 5-1, pp. 113-119. 2015
6. "Water Quality Variability of the River Rioni" paper proceedings of Climate Change Adaptation , Colombo, Sri Lanka, pp. 48-55, 2015,
7. "ASSESSMENT OF VARIABILITY OF FLOODS AND FRESHETS FREQUENCY IN SEPARATE MONTH OF SOME GEORGIA'S RIVERS" Prosedings ICAE-2015, pp 75-78, 2015
8. "Evaluation and Management of the Risk of Flooding River Bank"... Springer International Publishing Switzerland, (e-Book), 2014
9. "Evaluation of the hydrochemical elements of the water quality in the water reservoirs by using Johnson  $S_B$  distribution" SGEM-2014, Volume 1, pp. 263-266. 2014 , Bulgaria,
10. "Evaluation of the ecological risk of the natural environment" " Proceedings 13-th International Multidisciplinary Scientific Geo-Conference SGEM 2013, Vol I, pp-431-436, Bulgaria,
11. Allowable Soil Erosion Rates in Georgia // Eurasian Soil Science, 2013, Vol. 46, #3, pp. 438-446
12. General oceanography, part I hydrology of the Seas and oceans, Textbook TSU, 2013,
13. "Hydrological zoning of the territory of Georgia and estimation of water resources on the background of the climatic change" Proceedings SGEM 2012, Vol III, pp-729-732, Bulgaria,
14. "Hydrological regime of load Discgarge of the Rivers of Kolkhети Lowland" conference Prosedings, SGEM 2011, Volume II, pp 853-858, 2011
15. "General Hydrology", Textbook, TSU, 2011,
16. "NATURAL AND ANTROPOGENIKAL CONSEQUENCEZ OF THE BLACK SEA AND LAKE PALIASTOMI" conference Prosedings, SGEM 2010, Volume II, pp 121-126
17. "ASSESSMENT OF THE FLOODING IN THE BLACK SEA COASTAL AREA OF WESTERN GEORGIA" - JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY (JEPE) vol.11.# 4, 2010.
18. "The Methods of for determination of hydrological specifications", Monography, Universal, 2009
19. "The Use of Nonlinear Regression Equation in Hidrological Calculations" NAnnals of Agrarian Science 6 #3, pp. 76-78, 2008
20. Some Aspects of Hydro ecological Exploitation of the River Chorokhi" Bulletin of the Georgian Academy of Sciences, 172, #2, 2005
21. "Model of Functioning of Water-Management System with One Reservoir of Complex Function" Bulletin of the Georgian Academy of Sciences, 172, #3, pp 499-501, 2005
22. "Boundary Conditions of Water Resources Control of Transit Rivers" Bulletin of the Georgian Academy of Sciences, 169, #1, 2004
23. "To the Problems of tranzit rivers" Bulletin of the Georgian Academy of Sciences, 166, #1, 2002
24. "Mathematical Modeling of Flood Wave in the River Basins" Bulletin of the Georgian Academy of Sciences, 165, #1, Tbilisi, 2002