

**Project name:** „Geoecological screening at springs and headwaters in the Adjara region / West Georgia“

**Funding period:** 2018-2020

**Project description:** The aim of the study is to provide an overview of the pollution status of individual springs and upper reaches in the Korolistskali catchment area in the Mtirala National Park. The focus is on the following stressors:

- Acidification and pollution with pedogenic aluminum in the source areas of forested catchments
- Risk of eutrophication due to nitrate and phosphate pollution in agricultural catchment areas

**Partner Institutions:** Ivane-Javakhishvili Tbilisi State University; Saarland University – Germany

**Academic/Scientific staff:** Assoc. Prof. Besik Kalandadze (TSU); Prof. Jochen Kubiniok; Dr. Gero Weber (Saarland University).

**Project Outcome:** During the field research, we took water samples from about 40-50 springs and water bodies in the upper reaches of the Korolisskali River (Mtirala National Park). All samples are examined for basic physico-chemical parameters. All samples are documented in a field log (5.). Water samples from forest springs with pH values < 6.5 were sent to the Saarland University laboratory for cation analysis (especially aluminum). As a result of the research, we determined the regularities of mobile aluminum migration