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Summer Field School [Hybrid] on
MOUNTAIN ECOSYSTEMS AND RESOURCE MANAGEMENT
11-20 September, 2023

SPEAKER PARTICIPANT'S PROFILE

	Dr. Nazgul Ibrayeva *Associate Professor* Naryn State University named after S. Naamatov Department of Natural Science Education St. Lenina 103rd kv-33 722900 Naryn KYRGYZSTAN Tel: +996700083570 Email: nasgul123@mail.ru
Highest Education	PhD
Personal Statement	Since 1999 I have been working in the field of science and education. Since 2014 I have been working at the Naryn State University at the Department of Natural Science Education as the Head of the Department. I have experience in implementing several international projects related to education and developing educational programs for them, and also participated in several trainings. Currently, I am working on the development of the educational and methodological complex "Biodiversity and Climate Change".
Brief Bio	Since 2019, I have been studying hydrobionts of the Naryn River. Macrozoobenthos are an important component of aquatic ecosystems, they are of great interest as indicators of water quality, as they are sensitive to any changes in the environment, and they are also very convenient bioindicators of the aquatic environment, both anthropogenic and natural. Establishing the species composition of aquatic invertebrates, studying their biology and role in aquatic ecosystems, identifying biological and geographical patterns in the formation of aquatic biocenoses allow solving fundamental issues of zoology, hydrobiology, ecology and biogeography
Paper/Presentation Title (Unpublished Research or Review or Field Work)	*Aquatic Biodiversity of the Naryn River based on Macrozoobenthos*

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Keywords	Hydrobiology; Zoobenthos; Macrozoobenthos; Flora and fauna; Ecology; High mountains
Abstract (100-300 words)	The Naryn River is the main water artery of Kyrgyzstan, belonging to the Syr Darya basin, formed from the confluence of the Big and Small Naryn. The last hydrobiological studies of the Naryn River were carried out more than 40 years ago (Turdakov, 1952, 1963; Goncharov 1964; Kustareva 1973; Abylkasymova 1973; Konurbaev 1973; Karabekova 1990). Studies of past years were carried out to study the ichthyofauna, parasitology of fish, information on the macrozoobenthos of the middle and upper reaches is generally absent. Many aquatic invertebrates are natural biofiltrates providing purification of natural water. In the food chain, they are the main food resources for fish and other aquatic vertebrates. Establishing the species composition of aquatic invertebrates, studying their biology and role in aquatic ecosystems, identifying biological and geographical patterns in the formation of aquatic biocenoses allow solving fundamental issues of zoology, hydrobiology, ecology and biogeography. The ecosystem of the Naryn River is defined as a functional unit consisting of the floodplain of the river, the coastal zone and the water channel, the water zone. The water body with its hydromorphological, chemical and biological characteristics reflects both the use of the catchment area and the ecological state and quality of water in the Naryn River. A particularly good bioindicator for this is the aquatic fauna of invertebrates, the so-called macrozoobenthos (MZB), that is, macroscopically visible invertebrates living at the bottom of a reservoir. Based on the aquatic biodiversity of the MZB, the composition of the MZB zones and the abundance (number) of individual species, conclusions can be drawn about the ecological state, impacts and disturbances, respectively.
More Information (weblinks)	

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