

Bioflora of North Turkestan and its bioecological description

About the research work done in 2020

1. In order to study the species composition of the algae of the North Turkestan ridge and their flora-systematic analysis, expeditions were organized, herbarium materials were collected.
2. As a result, the species composition of algae distributed in the North Turkestan ridge has been studied and their flora-systematic composition has been determined for the first time and is being continued.
3. Along with the taxonomy of the species, ecological groups and substrates have been identified
4. The distribution of indicator species in the study area and their role in determining the amount of heavy metals in the environment are studied.

REPORT

Division of algae - Bryophyta has a special place among the higher plants. They are widespread on all continents of the Earth and are adapted to growing in different ecological conditions, as well as in extremely unfavorable climatic zones. L.V. According to Bardunov, algae do not occur in saline soils and on the seabed, but some species grow on the coast.

The environments in which algae grow are diverse, they are found in the soil, tree bark, roots, rotten bark, in highly moist substrates caused by anthropogenic factors, and form specific associations. Algae have the ability to grow even in unproductive soils, with varying temperatures and humidity.

U. K. According to Mamatkulov and others, there are 615 species of algae in Central Asia, which belong to 2 ancestors, 68 families, 186 genera. There is very little information in scientific sources about the flora, taxonomy and ecology of algae in Uzbekistan.

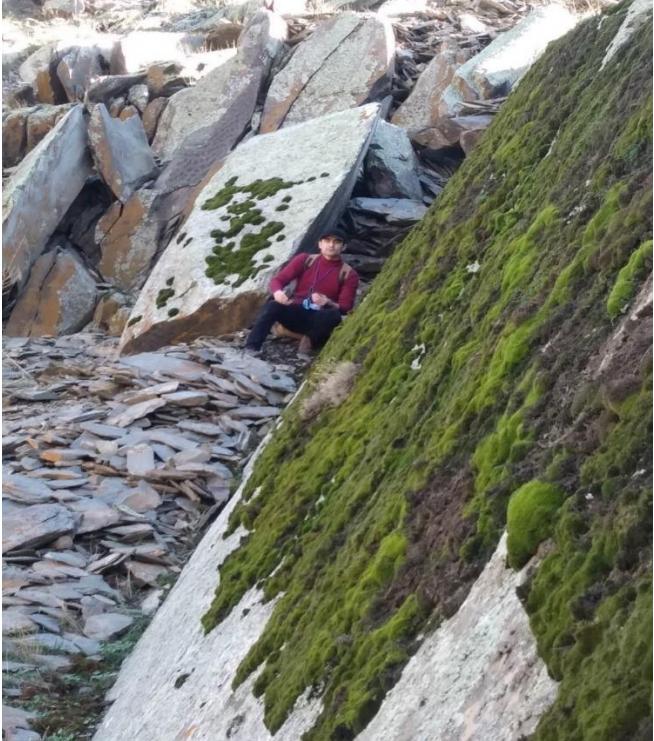
Therefore, we are conducting bryofloristic studies in the botanical geographical region of North Turkestan. being done.

Articles and theses published in 2020:

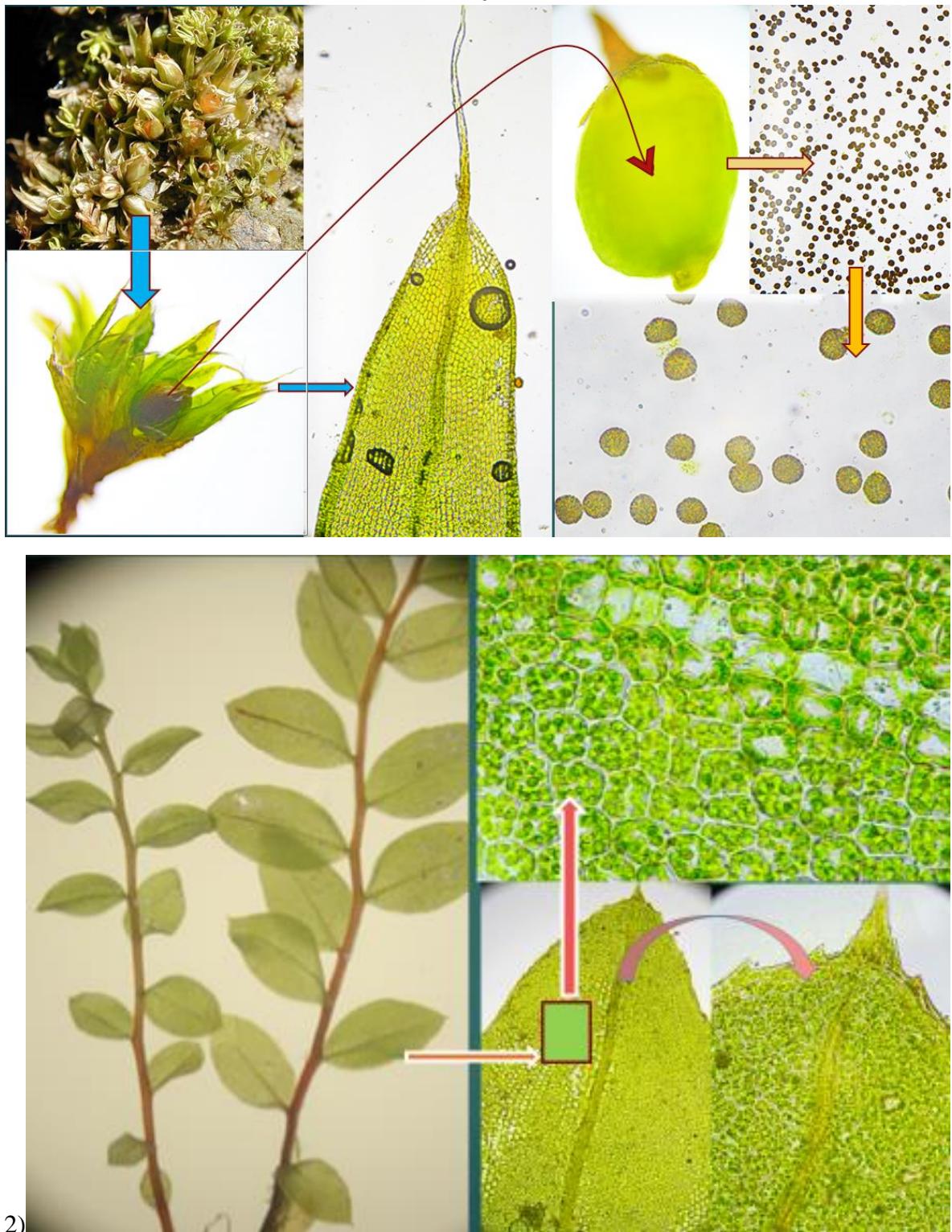
Mxi (<i>bryophyt</i>) Uzbekistan	Print	MATERIALS of the report conference of students, masters, doctoral students and professors on the current problems of biology in 2019 Samarkand-2020. (Pages 50-56)	Page 3
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Geographical analysis of brioflor Samarkand region	Print	II International Scientific Theoretical Conference on " Food Security: National and Global Drivers " 2020.10.16-17.	Page 4
Medicinal properties of mxov	Print	"Medicinal and spicy plants in Uzbekistan Conservation, cultivation, processing and In increasing the export potential of the industry <i>"Topical issues of the scientific - practical conference Supplies (December 3, 2020)</i>	Page 4
«Substrate groups of algae of the Jum- Jumsai basin of the North Turkestan ridge»		Bulletin of Khorezm Mamun Academy 2020	Page 8

From expedition processes



Some examples from taxonomic analysis



2)

Nº	Ajdod	Tartib(qabila)	Oila	Turkum	Tur	Namlikka	Substrati
1	<i>Bryopsida</i> Horan.	<i>Dicranales</i> H.Philib. ex M.Fleisch.	<i>Pottiaceae</i> <i>e</i> Schimp.	<i>Tortula</i> Hedw.	<i>Tortula acaulon</i> (With.) R.H.Zander. 39,62490,68,49077	Kserofit	Epigey
2	<i>Bryopsida</i> Horan.	<i>Bryales</i> Limpr.	<i>Mniaceae</i> Schwägr.	<i>Mnium</i> Hedw.	<i>Mnium stellare</i> Hedw. 39,64327,68,52360	Mezofit	Epigey Epilit