



“KANOAT ” FISHING BASE , SHAROF RASHIDOV DISTRICT , JIZAKH REGION

Kamolova Shohsanam

PhD Student Jizzakh styate pedagogical university, Uzbekistan

Kamolov Jahongir

Teacher Jizzakh branch of Kazan Federal University, Uzbekistan

ABSTRACT

In the article we conducted research Sharof Rashidov district , Jizzakh region Information is provided about algae detected in the water basin of the "Kanoat" fishery .

KEYWORDS: Jizzakh region, algology, Cyanophyta, Chrysophyta, Basillariophyta, Euglenophyta, Chlorophyta, division, algae, class, order, family, genus, diatoms.

INTRODUCTION

Algae are of great importance in the biosphere as the first organisms to produce organic matter. Their biomass in the oceans is about 1.7 billion tons (550.2 billion tons per year). Algae produce 1.3-2.0 tons of dry biomass per 1 ha of water surface.

The formation of free oxygen in the Earth's atmosphere is also associated with algae. Algae are the most ancient organisms from which other plants originated. Most unicellular algae live in symbiosis with fungi, forming lichens. The geochemical significance of algae on Earth is associated with the natural cycle of calcium and silicon (residues of diatom algae). Large algae are used for food, used as animal feed, and in medicine, alginates, iodine, and agar-agar are obtained, which are necessary for the microbiology industry. Laminaria, macrocystis, porphyra and other algae are specially bred in the seas. Many algae are used as bioindicators for biological treatment of wastewater and for determining the pollution of water bodies. The science that studies algae is called algology.

Algae provide aquatic animals with the oxygen they need to breathe, and are also a source of food for these animals. They are especially important for fish. Currently, 60-70% of fish grown in fish farms in the republic are herbivorous.

In the reservoir of the "Kanoat" fishery, where we conducted research, 44 species and varieties of algae from the departments Cyanophyta, Chrysophyta, Basillariophyta, Euglenophyta, and Chlorophyta were identified, consisting of 6 classes, 7 orders, 9 families, and 14 orders (39 species, 4 phyla, and 1 phylum) (Table 1).

Basillariophyta) leads in terms of the number and diversity of species . The division of Basillariophyta has 27 species and varieties identified, which consist of 1 class, 2 orders, 4 families, and 8 genera. The division of Cyanophyta is next, and it consists of 3 genera, 2 families, 2 orders, and 2 classes, which contain 9 species. The division of Euglenophyta is next. This division consists of 1 class, 1 order, 1 family, 1 genera, 5 species, and 1 variation.

Table 1

Systematic analysis of the algal flora of the “ Qanoat ” fishery in Sh. Rashidov district

Class	Order	Family	Category	Species and species
Cyanophyta				
<i>Chroocophyceae</i>	<i>Chroococcales</i> Geitler.	<i>Merismopediaceae</i> Elenk.	1	1
<i>Hormogoniophyceae</i>	<i>Oscillatoriales</i> List.	<i>Oscillatoriaceae</i> (Kirchn.) Elenk.	2	8
Total: 2	2	2	3	9
Chrysophyta				
<i>Chrysomonadineae</i>	<i>Chromulinadales</i>	<i>Mallomonadaceae</i> Pasch.	1	1
Total: 1	1	1	1	1
Bacillariophyta				
<i>Pennatophyceae</i>	<i>Araphinales</i> Schutt.	<i>Fragilariaceae</i> (Kuetz) DT	2	5
	Raphinales	<i>Achnantheaceae</i> (Kuetz) Grun.	1	2
		<i>Naviculaceae</i> West.	3	15
		<i>Nitzschiaceae</i> Hass	2	5
Total: 1	2	4	8	27
Euglenophyta				
<i>Euglenophyceae</i>	<i>Euglenales</i>	<i>Euglenaceae</i> Klebs.	1	6
Total: 1	1	1	1	6
Chlorophyta				

<i>Chlorococcophyceae</i>	<i>Chlorococcales</i>	<i>Chlorococcaceae</i> Black. et Transley.	<i>Dictyococcus</i> Gerneck em. Korchik.	1
Total: 1	1	1	1	1
6	7	9	14	44

the Basillariophyta division of algae ranks first in terms of species richness. This order includes 3 families: Achnanthaceae (Kuetz) Grun., Naviculaceae West., Nitzschiaceae Hass. Within the families, the Naviculaceae West. family, and within the genera, the Navicula Bory. genus, are the most numerous in terms of species.

Chroococophyceae and Hormogoniophyceae of the Cyanophyta division have been identified, with the Hormogoniophyceae class accounting for the majority of species. The Oscillatoria Vauch. genus of this class is the most common. The Oscillatoria Vauch. genus of the Cyanophyta division leads in terms of the number of species.

The Euglenophyta division contains 5 species and 1 variation of the Euglenophyceae class, the Euglenales order, the Euglenaceae Klebs. family, and the Euglena Ehr. genus.

One class, one order, one family, one genus, and one species of the divisions Chrysophyta and Chlorophyta were identified.

So, as a result of the research conducted, Sh. Rashidov district of Jizzakh region In the water basin of the “ Kanoat ” fishery, 44 species and varieties of algae from the divisions Cyanophyta, Chrysophyta, Basillariophyta, Euglenophyta, and Chlorophyta, consisting of 6 classes, 7 orders, 9 families, and 14 genera, were found. It was studied that the division of diatom algae (Basillariophyta) leads in terms of the number and diversity of species .

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