

582.232:556.55(282.256.6)(571.56)

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2000). (, 1971; , 1999; , 1999; ,

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1998-1999

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77

(N75).
 4 %- 95
 Olympus BH-2
 (Sörensen, 1948).

212 (222
) 106 ,58 ,26 ,12 7 (. 1).
 1.

							%
<i>Cyanophyta</i>	3	6	14	19	47	50	22,2
<i>Dinophyta</i>	1	2	2	4	4	4	1,9
<i>Chrysophyta</i>	1	2	2	5	13	13	6,1
<i>Bacillariophyta</i>	2	6	18	31	80	87	37,7
<i>Xanthophyta</i>	2	2	5	13	22	22	10,4
<i>Euglenophyta</i>	1	1	1	3	6	6	2,8
<i>Chlorophyta</i>	2	7	16	31	40	40	18,9
	12	26	58	106	212	222	100

78,8 % *Pennato-*
phyceae (24,1 %), *Conjugatophyceae* (14,2 %) *Hormogonio-*
phyceae (13,7 %); *Raphales* (24,1 %) *Desmidiiales* (9,4 %).
Naviculaceae (20),
Oscillatoriaceae (15), *Dinobryonaceae* (12), *Fragilariaceae* (11), *Gomphonemataceae*
Pleurochloridaceae (8), *Achnanthaceae* (7).
 81 38,2 % (18)
 31 % 8,5 %
Oscillatoria (12), *Navicula* (11), *Dinobryon* (8),

Gomphonema, *Tribonema* (7), *Anabaena*, *Achnanthes*, *Gloeocapsa* (6), *Nitzschia* (5), *Synedra* (4). 49 (46,2 %), 23,1 %

3,0×0,1 , 4 . (*Equisetum*) (*Carex*), (*Potamogeton*), (*Ceratophyllum demersum* L.), (*Thacla natans* (Pall. ex Georgi) Deyl et Sojak).

Nymphaea tetragona Georgi). 128 70 , 46 , 20 , 12 7 19 ° 1 15 *Dinobryon*

(3), *Anabaena* (2), *Tribonema* (2). 70 22-24 ° , 0,5-1,5 . : *Gomphonema* (5), *Achnanthes* (4), *Oscillatoria* (4), *Amphora*, *Dinobryon*, *Gyrosigma*, *Navicula*, *Nitzschia*, *Synedra*, *Tribonema* (3), *Fragilaria* (2). 15-18 ° , 0,7 2,2 . 53

Achnanthes, *Navicula* (3), *Anabaena*, *Eunotia*, *Gloeocapsa* (3), *Tribonema*, *Ulothrix*, *Elakatothrix*, *Spirogyra*, *Cosmarium* (2). *Aphanizomenon flos-aquae* (L.) Ralfs *Anabaena flos-aquae* (Lyngb.) Bréb.,

300×60 , 3 . (*Salix*), (*Equisetum*), (*Carex*), – (*Utricularia vulgaris* L.), (*Ceratophyllum demersum*), (*Persicaria amphibia* (L.) Hill). 124 70 , 46 , 21 , 12 7 21-24 ° 0,5-1,5 66 : *Oscillatoria* (6), *Navicula* (4), *Bumilleriopsis*, *Cyclotella*, *Dinobryon* (3). 16-19 ° , 0,5-1,5 , 3-5 41 . : *Navicula* (4), *Oscillatoria*, *Microcystis* (3), *Gloeocapsa*, *Anabaena* (2). 7-11 ° , – 2,2 . – 33 . *Navicula* (5) *Oscillatoria* (3). (S) – 0,22.

Bacillariophyta, Cyanophyta Chlorophyta.

– 0,23.

: *Oscillatoriaceae, Euglenaceae, Naviculaceae Pleurochloridaceae* (. 2).
– *Oscillatoriaceae Pleurochloridaceae.*

2.

		(, 2000)		(, 1999)	
<i>Naviculaceae</i>	20(1)	<i>Desmidiaceae</i>	46(1)	<i>Naviculaceae</i>	36(1)
<i>Oscillatoriaceae</i>	15(2)	<i>Scenedesmaceae</i>	45(2)	<i>Oscillatoriaceae</i>	28(2)
<i>Dinobryonaceae</i>	12(3)	<i>Oscillatoriaceae</i>	43(3)	<i>Fragilariaceae</i>	27(3)
<i>Fragilariaceae</i>	11(4)	<i>Euglenaceae</i>	39(4-6)	<i>Nitzschiaceae</i>	22(4)
<i>Gomphonemataceae</i>	8(5-6)	<i>Naviculaceae</i>	39(4-6)	<i>Anabaenaceae</i>	16(5)
<i>Pleurochloridaceae</i>	8(5-6)	<i>Pleurochloridaceae</i>	39(4-6)	<i>Cymbellaceae</i>	13(6)
<i>Achnanthaceae</i>	7(7)	<i>Synuraceae</i>	28(7-8)	<i>Achnanthaceae</i>	11(7-8)
<i>Anabaenaceae</i>	6(8-9-10)	<i>Selenastraceae</i>	28(7-8)	<i>Gomphonemataceae</i>	11(7-8)
<i>Euglenaceae</i>	6(8-9-10)	<i>Ulotrichaceae</i>	20(9)	<i>Surirellaceae</i>	10(9)
<i>Gloeocapsaceae</i>	6(8-9-10)	<i>Characiopsidaceae</i>	19(10)	–	–

.3

– : *Navicula, Oscillatoria, Anabaena Gomphonema* (. 3).

Navicula Anabaena.

($S = 0,30$).

Bacillariophyta, Cyanophyta

Chlorophyta.

– : *Naviculaceae, Oscillatoriaceae, Fragilariaceae, Anabaenaceae, Achnanthaceae, Gomphonemataceae* (. . 2).

– : *Oscillatoria*, *Navicula*, *Nitzschia*, *Anabaena*, *Synedra*, *Gomphonema*, *Achnanthes*, *Tribonema* (. . 3).

3.

		(, 2000)		(, 1999)	
<i>Oscillatoria</i>	20(1)	<i>Cosmarium</i>	37(1)	<i>Oscillatoria</i>	22(1-2)
<i>Navicula</i>	15(2)	<i>Scenedesmus</i>	35(2)	<i>Navicula</i>	22(1-2)
<i>Dinobryon</i>	12(3)	<i>Navicula</i>	25(3-5)	<i>Nitzschia</i>	20(3)
<i>Gomphonema</i>	11(4)	<i>Oscillatoria</i>	25(3-5)	<i>Anabaena</i>	16(4-5)
<i>Tribonema</i>	8(5-6)	<i>Mallomonas</i>	25(3-5)	<i>Synedra</i>	16(4-5)
<i>Anabaena</i>	8(5-6)	<i>Characiopsis</i>	16(6)	<i>Cymbella</i>	11(6)
<i>Achnanthes</i>	7(7)	<i>Anabaena</i>	15(7)	<i>Gomphonema</i>	10(7)
<i>Gloeocapsa</i>	6(8-9-10)	<i>Euglena</i>	14(8)	<i>Achnanthes</i>	9(8-9)
<i>Nitzschia</i>	6(8-9-10)	<i>Spirogyra</i>	12(9)	<i>Surirella</i>	9(8-9)
<i>Synedra</i>	6(8-9-10)	<i>Gomphonema</i>	11(10)	<i>Tribonema</i>	8(10-11)
–	–	–	–	<i>Fragilaria</i>	8(10-11)

212
106 , 58 , 26 , 12 7 .
(37,7 %
), (22,2 %) (18,9 %) .

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TAXONOMIC STRUCTURE OF ALGAE FROM INUNDATED FLOODPLAIN
LAKES OF MIDDLE LENA AREA (YAKUTIA, RUSSIA)

Algae flora of inundated floodplain lakes of the Lena River basin was investigated for the first time. A comparative analysis of algae taxonomic structure from the floodplain lakes and those located in the area of fluvial terrace above the floodplain, including part of the middle Lena, was carried out. The peak of species diversity of the floodplain lakes investigated is marked during their maximal water heating at the end of July - early August. High similarity of species composition in algae from the floodplain and the Lena River was found. In our opinion, it was connected to algae from being carried from the river during floods. Similarity between algae floras of the lakes investigated and the ones located higher on the fluvial terrace not affected by floods within the middle Lena area is low.

Key words : algae flora, taxonomic structure, inundated floodplain lakes, middle Lena area .

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... , 1971. - . 334-340.
... : ...
... , 1999. - 16 .
... // ...
... « ... » . 2. ... : -
... , 2000. - . 69-82.
... *Bacillariophyta* // ... - 1999. - 9,
2. - . 112-113.
... //
... : ... - , 1999. - . 43-50.

Sørensen T. A method of establishing groups of equal amplitude in plant sociology based on similarity of species content // Kongel. Danske Vid. beres Selskab. Biol. Krifter. - 1948. - 5, N 4. - 120 p.

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