

582:622.692.4(571.56)

..

677980 , . ,41,

(,

)

12

125

– ()

12

: , (, 1956; , 1984, 2001; ., 1997; , , 2000).

© . . . , 2009

2006 .
 (. -).
 (0-0,3).
 (

N75). 1,5
 Sartorius (. 2,5). 4 %-
 110
 Olympus

BH-2 .
 -

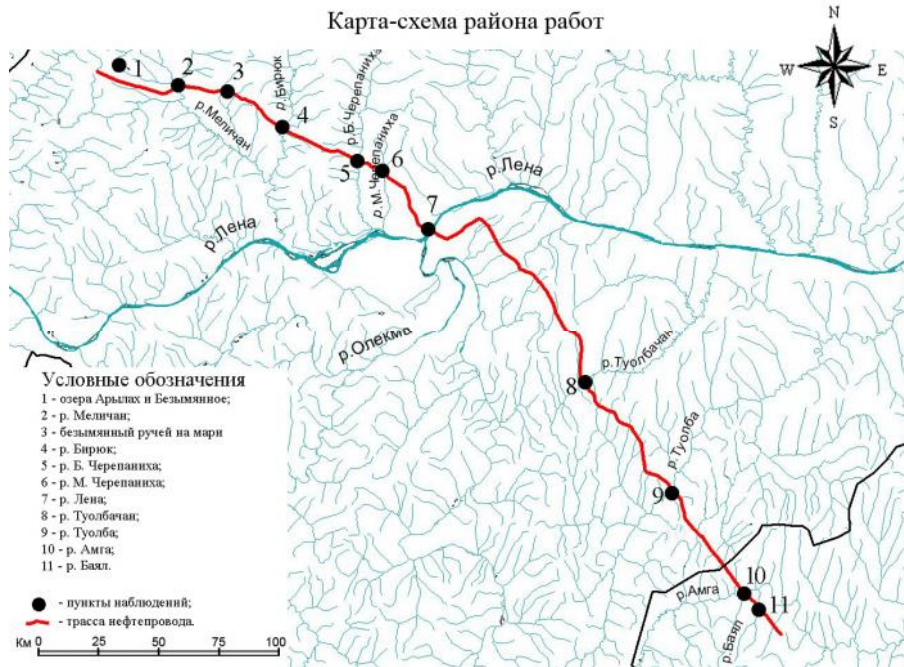
1984). « »
 (,
 - , 1:
 (/): (/):
 ()
 (/).

125 (130 , 8 , 13 , 37
)
 , 59 (. 1).
 (94,4 %)
 (, 1985;
 , 1989; ., 2003).
Pennatophyceae (42,1 %), *Chlorophyceae* (24,6 %)
Conjugatophyceae (10,3 %); - *Raphales* (30,2 %)
Chlorococcales (23,0 %). 10
 73 (58,2 %),

-
 (., 2005).
Fragilariaceae (8,7 %), *Desmidiaceae* (7,1 %) *Scenedesmaceae*
 (5,6 %). - 14, .

(, 1985). - 78,3 % .

12
 20 % 53 %
 1:1,6:3,3:3,4. 2,1.



1.

							%
							(125)
<i>Cyanophyta</i>	2	4	6	8	15	15	12,0
<i>Chrysophyta</i>	1	1	2	3	5	5	4,0
<i>Bacillariophyta</i>	2	4	15	23	59	64	47,2
<i>Xanthophyta</i>	1	1	1	1	2	2	1,6
<i>Chlorophyta</i>	2	3	14	25	44	44	35,2
	8	13	38	60	125	130	100

(1970),

94,0 427,6 / ,
 (44,6 %). pH 6,19 8,25,
 (23,1 %)
 (14,6 %).
 (36,2 %);
 (9,2 %).
 – *Hannaea arcus* (Ehr.) Patr., *H. arcus* var.
linearis (Holmboe) Patr.
 – 49 %
 β- , 23,6 %
 β- (α ρ-α) – 11,8 %, (χ, χ-o, o-χ) – 15,7 %.
 2100
 560 .²
 51
 86,6 95,9 %
 – 0,3 7,2 %, – 0,6 6,2 %
 1350 , (),
 1,7 / . 15
 0,44 /
 (.2).
 :
Nitzschia macilenta Greg., *N. acicularis* W. Sm., *Synedra ulna* (Nitzsch) Ehr., *Cyclotella*
kuetzingiana Thw. – *Dinobryon divergens* Imh.
 : *Tabellaria fenestrata* (Lyngb.) Kütz. var. *intermedia* Grun.,
Gomphonema ventricosum Greg.,
 – *S. ulna* *N. acicularis*.
 – 2,20 2,19, β-α-

2. (, . /) (, /) .

	<i>Bacillariophyta</i>		<i>Chlorophyta</i>		<i>Chrysophyta</i>			
	894,4	0,4070	343,2	0,0339	52,0	0,0290	1289,6	0,4699
	728,0	0,4358	624,0	0,0467	20,8	0,0029	1372,8	0,4854
	32,9	0,0355	3,5	0,0001	3,5	0,0014	39,9	0,0370

(. . 2), – *Navicula bacillum* Ehr.,
S. ulna, *T. fenestrata* var. *intermedia*, *Fragilaria virescens* Ralfs.

N. acicularis,
, 30,7 25,8 %, – 4,4 %.
– 1,40.

80- (. . , 1984),
1,60, *N. acicularis*

(Hb) :
– 3,04, – 3,81, – 3,66.
– , . 1462 ,
69,3 . ², , 0,9 / .

(. . 3) – 77,9 % , 20,2 %
1,9 % – . – *Cymbella*
tumida (Bréb.) V.H., *Achnanthes giberrula* Grun., *Nitzschia sublinearis* Hust., *Synedra*
tabulata (Ag.) Kütz. *S. ulna*, ,

(1 2).
1,90. Hb
3,00 3,28.

15,8 . ², , 1,9 / .
20

(. . 3) – 90,3 %, – 9,4 %, –
0,3 % . – *Synedra ulna*, *Diatoma elongatum*
(Lyngb.) Ag. var. *tenue* (Ag.) V.H., *Cymbella ventricosa* Kütz.
1,89. Hb 1,96 2,52.

3.

	<i>Bacillariophyta</i>	<i>Chloro- phyta</i>	<i>Chryso- phyta</i>	<i>Cyano- phyta</i>	<i>Xantho- phyta</i>	
	<u>23.05</u> 0,0166	<u>3.99</u> 0,0043	<u>0.78</u> 0,0004	-	-	<u>27.82</u> 0,0213
	<u>35.07</u> 0,0307	<u>1.04</u> 0,0032	-	-	<u>0.52</u> 0,0001	<u>36.63</u> 0,0340
	<u>1.02</u> 0,0008	<u>0.48</u> 0,0001	-	-	-	<u>1.50</u> 0,0009
	<u>0.28</u> 0,0018	<u>0.13</u> 0,00001	-	<u>218.38</u> 0,0083	-	<u>218.79</u> 0,01011
	<u>0.66</u> 0,0034	<u>0.52</u> 0,0019	<u>0.11</u> 0,00001	-	-	<u>1.29</u> 0,00531
	<u>0.57</u> 0,0020	<u>0.10</u> 0,0005	<u>0.05</u> 0,00001	-	-	<u>0.72</u> 0,00251
	<u>0.53</u> 0,0005	<u>0.36</u> 0,0001	-	-	-	<u>0.89</u> 0,0006
	<u>1.80</u> 0,0033	<u>0.73</u> 0,0014	-	<u>10.51</u> 0,00004	-	<u>13.04</u> 0,00474
	<u>0.47</u> 0,0012	-	-	-	<u>0.05</u> 0,00003	<u>0.52</u> 0,00123
	-	<u>2.34</u> 0,0020	-	<u>1303.65</u> 0,2222	-	<u>1305.99</u> 0,2242
	<u>1.17</u> 0,0009	<u>2.34</u> 0,0012	-	<u>348.27</u> 0,0027	-	<u>351.78</u> 0,0048

- , / , - , / .

9,7 . 2 , 1 / , - .

19 .

(88,9 % -

), (11,1 %) (. . 3).

: *Aulacosira granulata*

(Ehr.) Simon. (29,9 %), *Synedra ulna*, *Cosmarium*

sphagnicolum W. et G.S. West.

1,68 -2,15.

1,79.

4,9 . 2, 0,6 / . 5

—

Aphanizomenon flos-aquae (L.) Ralfs. 49,5 %

100 % —

, P/ ,

— 0,01 1,00. P/ . 1,70.

3,9 . 2, , . 185 , 0,9 / .

29 .

(64,0 %) —

(35,8 %), — 0,2 % (.

. 3). — *Bacillariophyta*

Desmidiaceae: Cymbella lanceolata (Ehr.) V.H., *Cosmarium amphichondrum* Skuja, *Nitzschia macilenta*, *Cosmoastrum punctulatum* (Bréb.) Pal.-Mordv., *Tabellaria fenestrata*. 1,52.

2,53-3,50.

— . 125 ,

1,8 . 2, 0,8 / , .

14 .

79,7 % , 19,9 %,

(. . 3).

Synedra ulna, *Melosira varians* Ag., *Nitzschia filiformis* (W. Sm.)

Hust. — 1,98. 1,83.

469 2, 0,6 / , . 65 ,

13 .

83,3 % , — 16,7 % (. . 3). :

Synedra ulna, *Melosira varians*, *Nitzschia filiformis*.

2,26. — 2,77.

— 40 ,

. , 0,6 / ,

- . 23

. (69,6 %

) (29,5 %), -

(0,8 %) (. . 3). -

, : *Chlorococcum infusionum* (Schrank)

Menegh., *Cosmarium amphichondrum*, *Trochiscia aciculifera* (Lagerh.) Hansg., *Tabellaria fenestrata*, *Gomphonema intricatum* Kütz. var. *pumilum* Grun.

1,59. Hb
 2,90-3,02.
 -
 (. . 3),
 -
 : *Tabellaria fenestrata* *Synedra ulna*. 2,48.
 1,18.
 -
 , 1,5-2,0 . 2×3 . -
 6
 (. . 3) – *Aphanizomenon*
flos-aquae (99,1 %).
 - 0,09.
 1,70.
 1,3×0,8 . 14
 (56,3 %
) (25,0 %) , (18,8 %).
 : *Oscillatoria woronichinii* Anissim., *Cosmarium subarctoum* (Lagerh.)
 Racib., *Tabellaria fenestrata*.
 (. . 3). – 2,27.
 1,63.

125
 5 , 8 , 13 , 37 , 59 . -
 (47,2 %
), (35,2 %) (12,0 %).
 -
 -
 (64,8-100 %),
 (9,8-35,2 %). 1 /
 11,1 %;

(.),
(56,3-99,1 %).

V.A. Gabyshev

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PHYTOPLANKTON OF THE WATER BODIES OF THE MIDDLE LENA RIVER BASIN IN
THE AREA OF THE PROJECTED OIL-PIPE LINE (YAKUTIA, RUSSIA)

Plankton of 12 natural water bodies located in the water basin of the middle Lena River in the area of the anticipated oil-pipe line, referred to as the East Siberia – Pacific Ocean system, includes 125 algae species found. From floristic and eco-geographic angles, phytoplankton is typical to algae communities of the northern water basins. By quantitative development of phytoplankton natural water bodies are characterized as oligotrophic. Features of composition and distribution of phytoplankton connected with their hydrological and geographic conditions of the water basins studied are found. The data available present the need for further research in conducting biomonitoring under conditions of increasing technogenic loads on water ecosystems of the middle Lena basin.

Keywords : phytoplankton, rivers, thermokarst lakes, the middle Lena River basin .

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2000. – . 80-84.
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..... , 1984. - 288 .

28.12.07