

582.26

664033

,3,

( )

(Findlay, Kasian, 1996).

( , 2002).

( , 1985).

( 0-1,5 ) *Ulothrix zonata* Kütz.,

( 1-2,5 ), *Tetraspora cylindrica* (Wahlenb.) Ag. var. *bullosa* C. Meyer.

*Didymosphenia geminata* (Lyngb.) M. Schmidt, – ( 2-12 )

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( )

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( ).

4-5 . ;

*Ulothrix zonata*

*cylindrica*

*Draparnaldioides*

, *Tetraspora*

© . . . . . , 2008

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(, 1965; , 1987; , 1990; , 1990; , 1992; , 1994; , 1995; Grosheva et al., 2000).

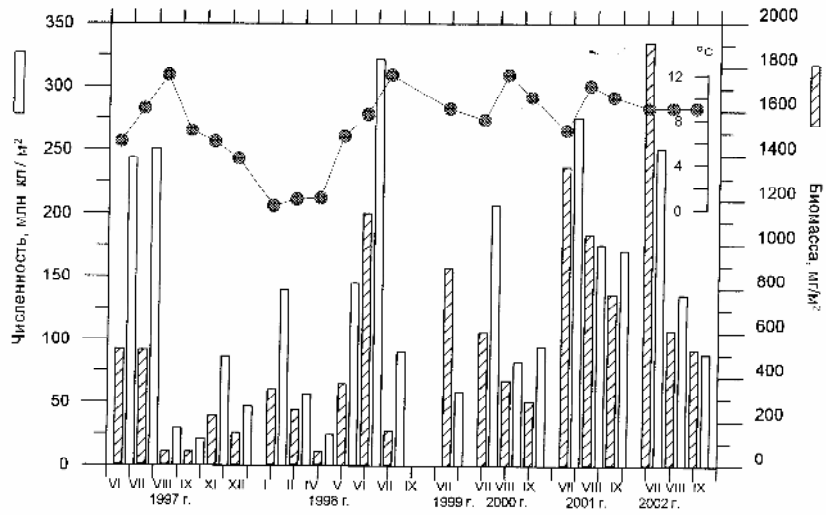
15-20 ; - 5-6  
( - 1997 ,, - 1998 ,, 1999 . - 96 %-  
2000-2002 ).

5<sup>2</sup>.  
2-5 .  
0,05 2-3  
(1970).  
( , 2004).

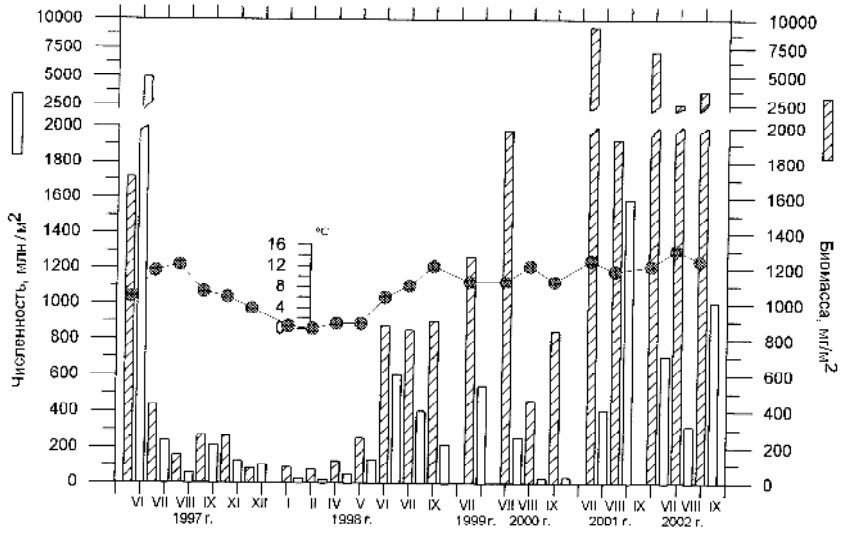
1997-2002 .  
206,5 10<sup>6</sup> 3, 2  
10<sup>8</sup> / <sup>2</sup>, - 30 1909 / <sup>3</sup>( .1).  
- 1998 .

2001-2002 ,, -  
(9-14 ),  
*Draparnaldioides*,  
( , 2004).

( . 1, 2).  
( , 1961),  
1974; , 1976, 1989; ,, 1994),  
( ,



1. ( )



2. ( )

1997-1998

( . . 1)

*Cymbella* Ag., *Navicula* Bory, *Synedra* Ehr., *Nitzschia* Hassall, *Gomphonema* Ag. *C. ventricosa* (Ag.) Kütz., *N. cryptocephala* Kütz., *S. vaucheriae* Kütz., *N. dissipata* (Kütz.) Grun., *G. olivaceoides* Hust., *Rhoicosphenia curvata* (Kütz.) Grun.  
1999 ( . . 1).

. . . : *Didymosphenia geminata* var. *baicalensis* Skv., *Cymatopleura solea* (Bréb.) W. Sm., *Surirella linearis* W. Smith, *Nitzschia palea* (Kütz.) W. Smith, *N. recta* Hantzsch, *Gomphonema quadripunctata* (Østrup) Wislouch.,

*Navicula* Bory *Cyclotella minuta* (Skv.) Antip.

2000 . *Cymbella stuxbergii* Cleve., *Didymosphenia geminata*, *D. dentata* Dorog., *Gomphonema quadripunctata* (Østrup) Wislouch., . -

*Cymbella*.

*Ellerbekia arenaria* var. *teres*,

*Cocconeis* Her., *Nitzschia* Hassall *Navicula* Bory, 1999 .

( , 2004).

2001 .

*Cymbella*, *C. tumida*, *Hannaea arcus* (Her.) Patr., *Didymosphenia geminata* *Cyclotella minuta*. *C. stuxbergii*, . *ventricosa*, *C. turgida*, *Cymbella*

*Cocconeis* Her., *Amphora*

*sibirica* Skv. & Meyer, *Gomphonema quadripunctata* *Ellerbekia arenaria* var. *teres*.

2002 . 2001 .

*Navicula tripunctata* (O.F. Müller) Bory *N. oppugnata* Kütz.

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( , , 2004; , , 2006). -

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( . . 1).

( , 1992, 2004).

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, ( . 3),

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9-10 , ,

*Didymosphenia*,

( , 1990; ., 1998; , ,

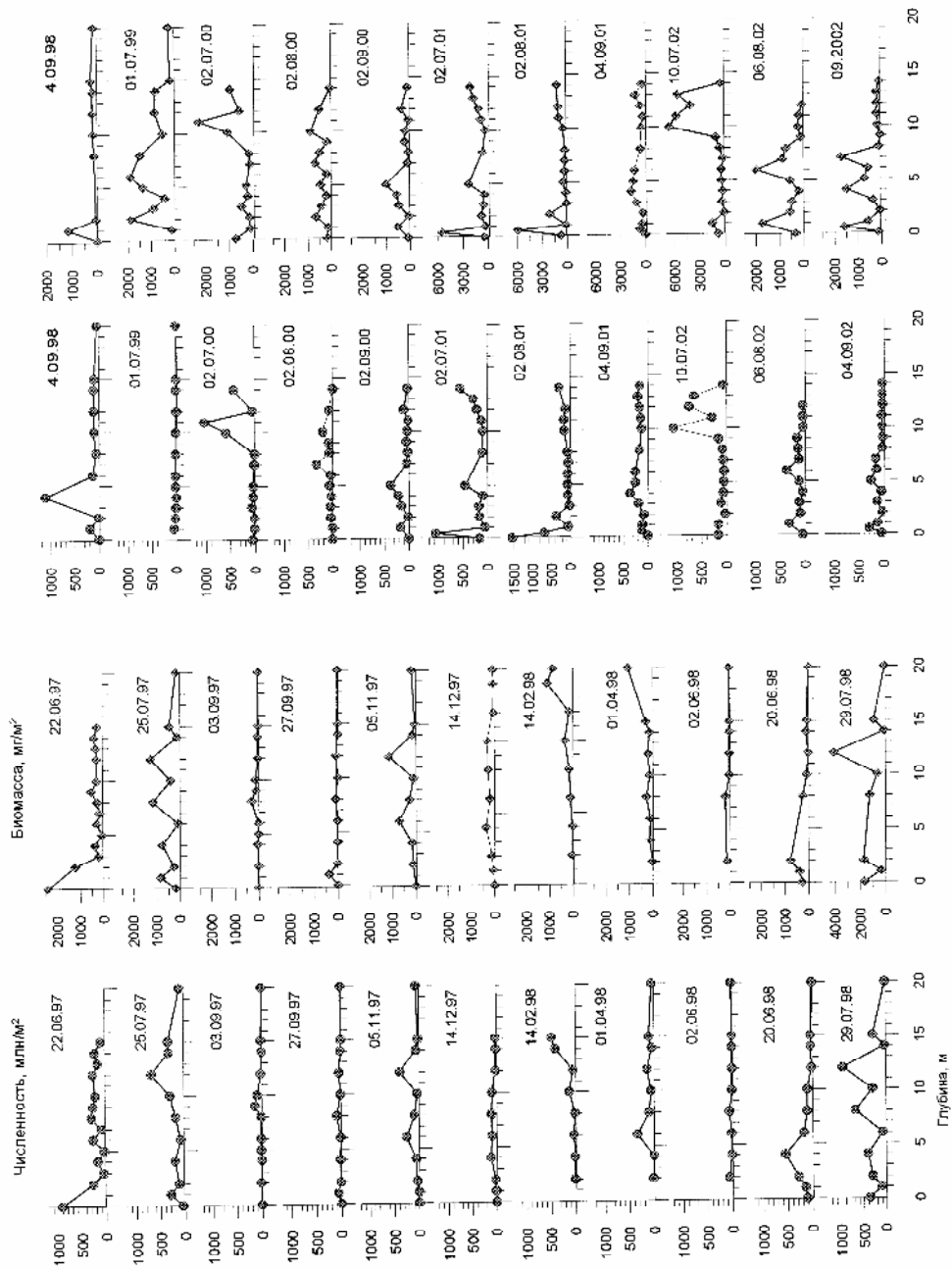
2004).

10-12 . ,

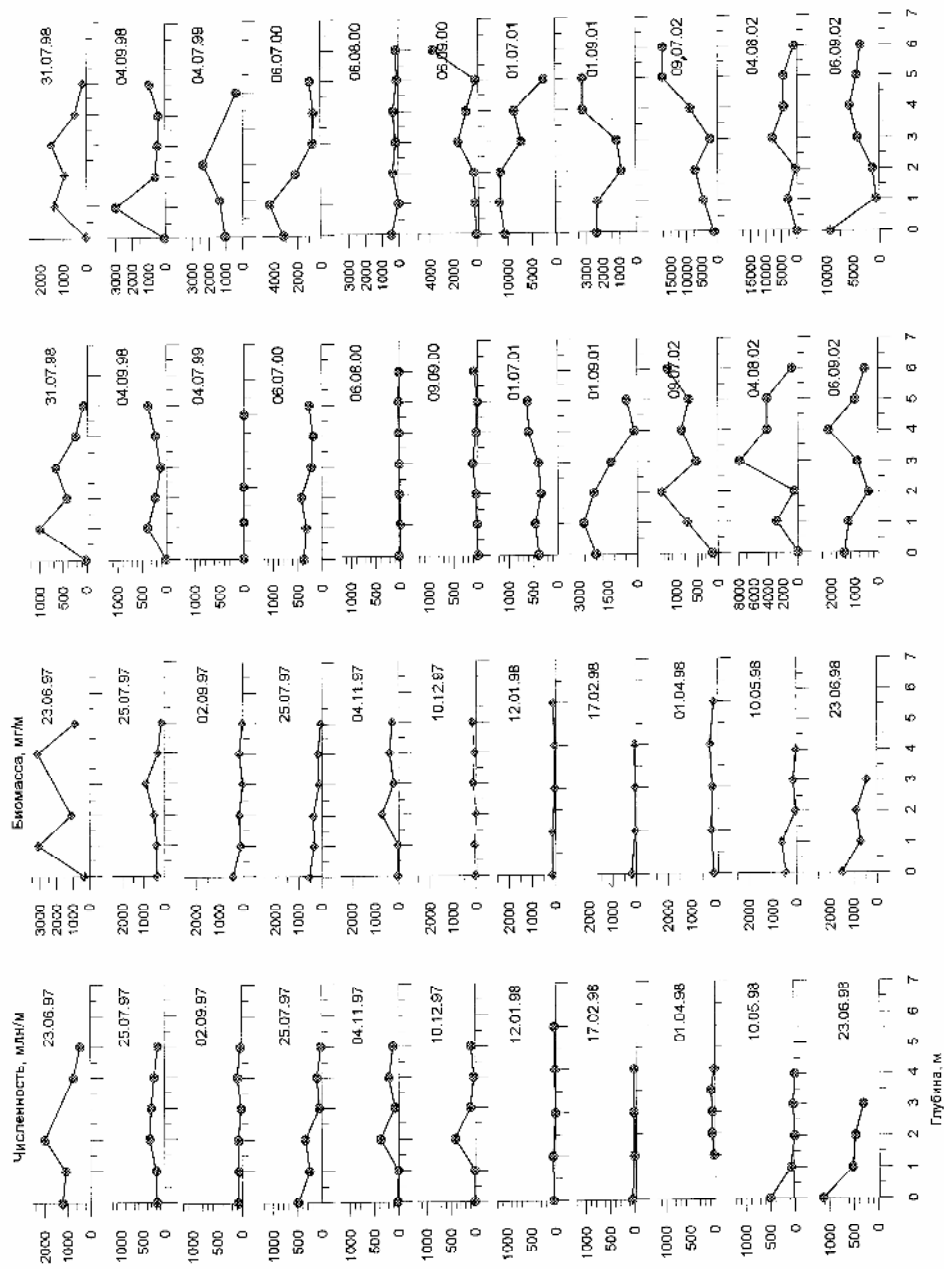
( , 1990) ,

*Draparnaldioides*.

( , 1999),  
*Cymbella*, *Gomphonema*  
*Navicula* *Didymosphenia geminata*.  
1997-2002  
20  $10^6$  /  $2-5$   $10^9$  /  $2$ ,  
150 /  $2$  9361 /  $2$ .  
2001-2002  
( . . 2).  
1997  
(25 ) *Cymbella ventricosa*, *Gomphonema ventricosum*, *G. olivaceoides* Hust., *Reimeria sinuata* J.P. Kociolek & E.F. Stoermer., *Rhoicosphenia curvata* (Kütz.) Grun. *Navicula*.  
*Amphora* Ehr., *Surirella* Turp. *Navicula* ( . . 2).  
1998 . , 1997 .  
*Didymosphenia* ( . . 3).  
- 754 /  $2$   
(Röpstorf et al., 2003).  
1999 .  
*Gomphonema quadripunctata*  
*Fragilaria* Lyngby , *F. capucina* Desmar., *F. vaucheriae*  
(Kütz.) B. Petersen, *F. crotonensis* Kitt., *F. pinnata* Ehr.  
( . . 2).  
2000 .  
*Didymo-*  
*sphenia geminata*,  
*Gomphonema quadripunctata*, *Cocconeis placentula*, *Nitzschia recta*.  
*Ellerbekia arenaria*, *Navicula tripunctata*  
*N. radiosa* Kütz.  
2001 .  
( . . 2), 2  
*Syn dra ulna* (Nitzsch) Ehr., *Cymbella turgida* (Greg.) Cleve,  
*C. tumida* (Bréb. ex Kütz.) Van Heurck, *C. ventricosa*, *Gomphonema quadripunctata*  
*Didymosphenia geminata*.  
*Navicula cryptocephala*, *N. tripunctata*,  
*N. bacillum* Ehr. (5-6 ) *Cymbella*  
*stuxbergii* Cleve, *Cyclotella minuta*, *Navicula lacus baicali* *Amphora sibirica* Skv. & Meyer.



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2002 .  
*Cymbella*, *Navicula oppugnata* Hust., *Cocconeis placentula*, *Gomphonema quadripunctata*.  
*geminat* *D. dentata*. *Didymosphenia*  
( . , 1998).

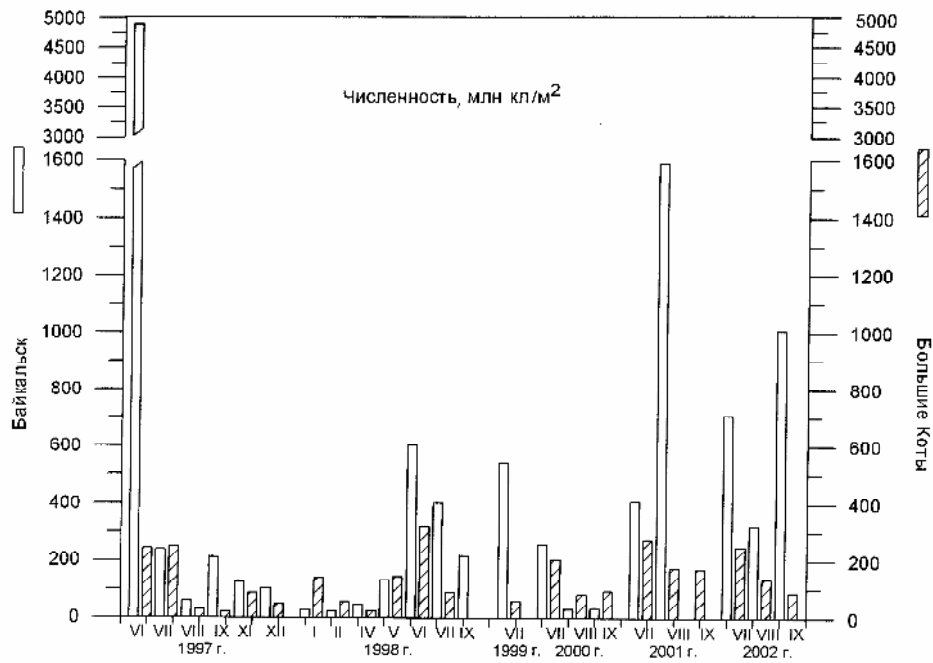
(80 ) (40-50 )  
( . . 2).

2-4 ( . 4). 4  
( . 5, 6)

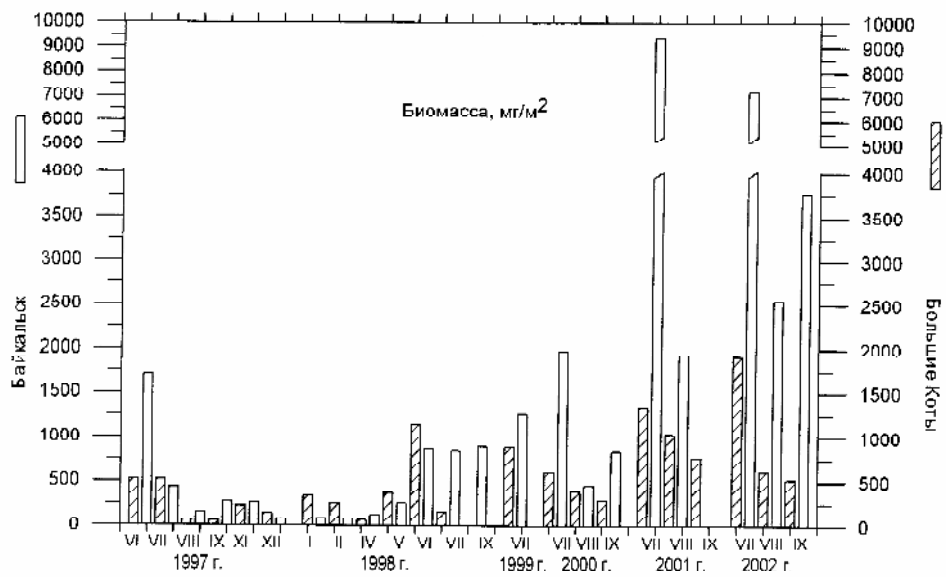
2001-2002 .  
(32), (24),  
(270 205).  
( , 1994, 2002).

( , 1995; , 2003). *Navicula*,  
*Nitzschia*, *Fragilaria*, *Cymbella*, *Synedra*, *Gomphonema*.  
( , 1990; , 2002; ,  
, 2003). ( ,  
, 1996).





. 5.



. 6.



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Ulan-Batorskaya, 3, 664033 Irkutsk, Russia

#### MICROPHYTOBENTHOS IN SOUTHERN BAIKAL (RUSSIA)

Quantitative indices of microphytobenthos have been obtained on the basis of long-term studies. Dominant structures of communities, seasonal, inter-annual and zonal changes of abundance and biomass of microphytobenthos under different ecological conditions of Southern Baikal have been analyzed. It is caused by changes of species diversity of algae community structures as well as by environmental factors. Spring and summer rises of abundance and biomass of microphytobenthos with the prevalence of the summer one is characteristic of seasonal dynamics.

*Keywords:* microphytobenthos, abundance, biomass, zonal distribution, Lake Baikal.

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