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528.26 (262.5)

..

,65011 , . ,37

(V)

(S).

(S/V, S/W),

(Rosenberg, Ramus, 1984; , 1986; , 1991; .., 1991; , 1996).

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(V ) (S )  
 « » ( , 1956).  
 $V \cdot = W , = 1$   
 $(S/W) ( \cdot^{-2} \cdot^{-1}) = S /W = S /V .$

$\cdot^{-2} \cdot^{-1}$  :  
 $(S/W) ( \cdot^{-2} \cdot^{-1}) = S /W \cdot 1000 ( , 2003).$

$(S/W) \dots ,$   
 $S/W$   
 :

$$(S/W) \dots = (\sum_{i=1}^n (S/W)_i) / n = (S/W) ,$$

$i -$  ( , 2003).

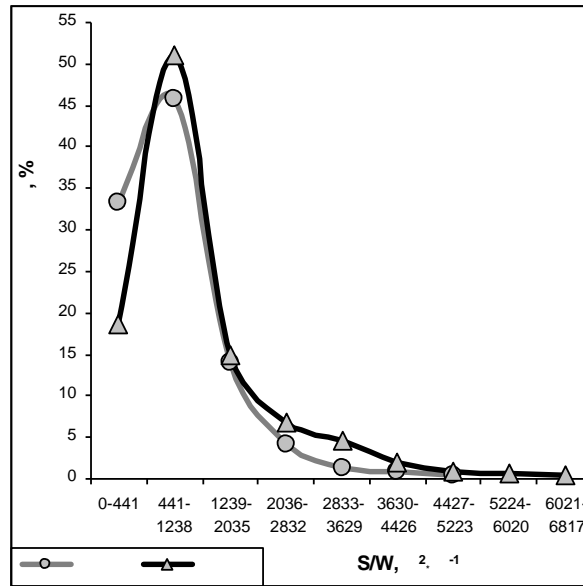
(N . . , . . . ) ( , 1988).

« », ( , 2003).

441-1238  $2^{-1}$ .

( , 2005 ).

( . 1).



. 1.

(S/W)  
( )

( )

[(N . . . )]

S/W

(

) ( . 2).

(N . . . )

N . . .

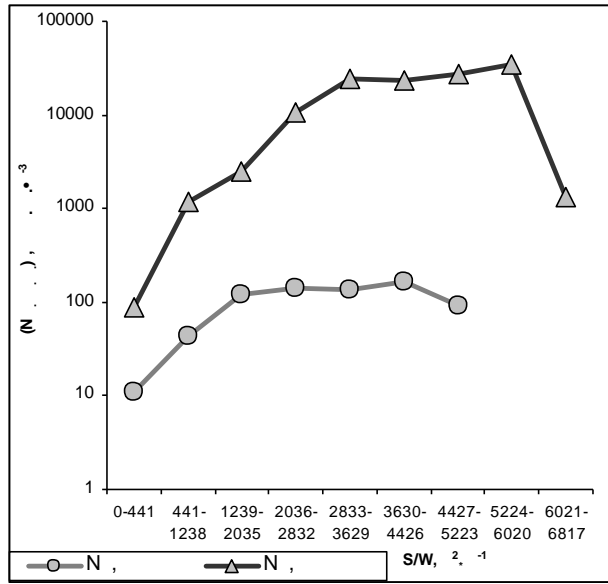
4837

.  $^{-3}$ ,

- 51

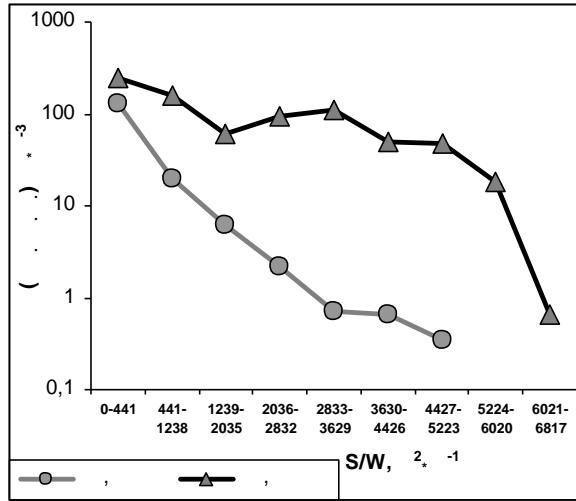
.  $^{-3}$ .

$S/W$  (N . . . )  
 (163 . .<sup>-3</sup>)  $S/W$  3630-4426 <sup>2</sup>.<sup>-1</sup>,  
 33950 .<sup>-3</sup>  $S/W$  5224-6020 <sup>2</sup>.<sup>-1</sup>  
 ( . . . 2).



. 2. (N . . . )  
 (S/W)  
 ( ) ( )

(N . . . ), ( . . . )  
 $S/W$  ( . . . )  
 ( . . 3). 146,39 .<sup>-3</sup>,  
 - 53,46 .<sup>-3</sup>.  
 $S/W$  0 5223 <sup>2</sup>.<sup>-1</sup> ( . . . ) 376  
 ( 130,40 0,35 .<sup>-3</sup>), - 5 ( 248,82  
 48,51 .<sup>-3</sup>).



3.

( )

(S/W)

( )

( )

( , . )

( , 2000).

(N:P)

( , , 1995).

N:P 20 50

*Chlorophyta*

, *Bacillariophyta*.

N:P 2-5

*Cyanophyta* ( , ,

1995).

(S/W)

*Bacillario-*

*phyta*

59-8951  $2 \cdot 10^{-1}$  [(S/W) = 944  $2 \cdot 10^{-1}$ ],

*Chlorophyta* - 247-

6004  $2 \cdot 10^{-1}$  [(S/W) = 1519  $2 \cdot 10^{-1}$ ],

*Cyanophyta* - 281-12000  $2 \cdot 10^{-1}$  [(S/W) =

2552  $2 \cdot 10^{-1}$ ] ( , 2005 ).

N:P

N:P

13,1:1-21,5:1

( , ), 0,4:1-3,5:1 ( -  
 , ).  
 16,5:1-19,0:1 ( , 2006).  
 (S/W) ,  
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 ( , 2006).  
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USING SPECIFIC SURFACE INDEX OF CELLS IN ANALYZING MORPHO-STRUCTURAL  
 ORGANIZATION OF THE PHYTOPLANKTON GROUPS

A comparative analysis of the level of quantitative development of different sized phytoplankton groups in areas with hydrochemical regimes of the northwestern Black sea and adjacent water bodies has been

made. For these areas a higher number of contributions cells with a greater specific surface has been noted characterizing a more rapid metabolic rate. The interrelation between the morpho-structural organization of phytoplankton and the biogenic content of the area under study has been analyzed.

*Key words* : phytoplankton, specific surface, morpho-structural organization, biogenic matters.

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