

... , ... C , ...

Bacillariophyta, Xanthophyta. 4- : Cyanophyta, Chlorophyta, 15 , 20 , 27 . Cyanophyta 56%

Xanthophyta. 15 , 20 , 27 : Cyanophyta, Chlorophyta, Bacillariophyta, Cyanophyta, 56%

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THE ALGAE OF LITTORAL SALT MARSHES OF THE MOLOCHNIY LIMAN LEFT BANK  
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Data on algae floristic spectrum of coastal salt marshes of the left bank of Molochny liman were presented. The algae diversity was presented by four compartments: Cyanophyta, Chlorophyta, Bacillariophyta, and Xanthophyta. The registered algae belong to 15 orders, 20 families, and 27 genera. The Cyanophyta algae were the dominant in explored salt marshes, counted 56% from total discovered species. The schematic algae structure of left bank salt marshes of Molochny liman was performed, some algae macroscopic accrescences on salt marshes surface were revealed, dominant algae families, dominant and most abundant algae species were defined.

*Kew words: algae, salt marshes, Molochny liman.*

... : *Salicornia europaea* L.  
*Suaeda altissima* (L.) Pall., *Salsola soda* L. *Halocnemum strobilaceum* (Pall.) Bieb.

2009 10  
(, 1969)  
0-2 20-50  
4

(, 1969).  
-40.  
R-14 (c) 20x, 40x, 100x).

44 4-  
: Cyanophyta – 25 (56%), Chlorophyta - 11 (25%),  
Bacillariophyta – 7 (17%), Xanthophyta - 1 (2%).  
15, 20  
, 27 (.1). Phormidiaceae (9),  
Nostocaceae (8), Catenulaceae (4), Oscillatoriaceae (3), 51%  
- Phormidium (7).  
3-x 19 9,4.  
5 ( - Chlorophyta, - Bacillariophyta)

: *Chlorogonim elongatum* Dangeard,  
*Scenedesmus acutus* var. *acutus* Meyen  
: *Navicula exigua* Grunow in Van Heurek, *Amphora coffeaeformis* (Agardh) Kützing, *Nitzschia sigmoidea* (Nitzsch) W.Smith.

9 : *Leptolyngbya perelegans* (Lemmermann) Anagnostidis et Komárek., *Phormidium paulsenianum* B.Peters., *Symploca muscorum* (Agardh) Gomont., *Lyngbya semiplena* (G. Ag.) J. Ag., *Hantzschia amphioxys* (Ehrenberg) Grunow in Cleve et Grunow., *Pseudendoconium* sp. Wille., *Leptolyngbya frigida* (Fritsch) Komárek et Anagnostidis., *Nodularia harveyana* f. *harveyana* (Thwaites) Thuret., *Lyngbya aestuarii* (Ment.) Lember.

*Gloeosphaeridium firmum* Pascher  
(, 2009).  
(.1),

*Spermatozopsis exsultans* Korsch.  
(.2)  
*Chlorogonim elongatum* Dangeard *Spermatozopsis exsultans*  
(.3).

*Gloeosphaeridium firmum*,

0.1%

Komaromy, 1976

*Nodularia harveyana*

2

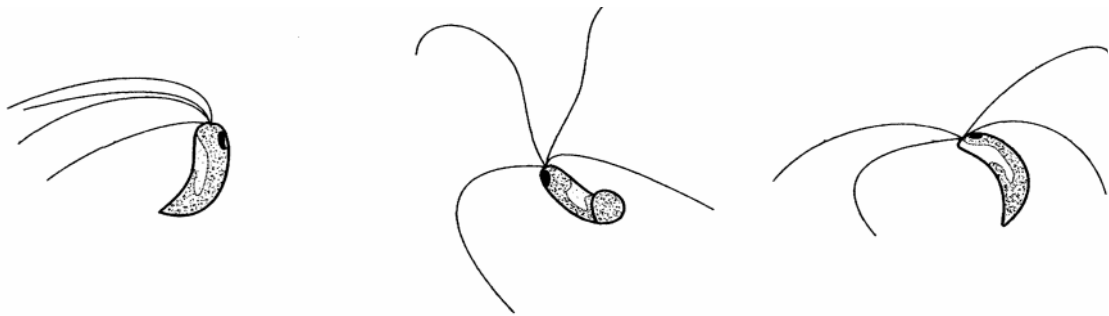
*Lyngbya aestuarii*,

1

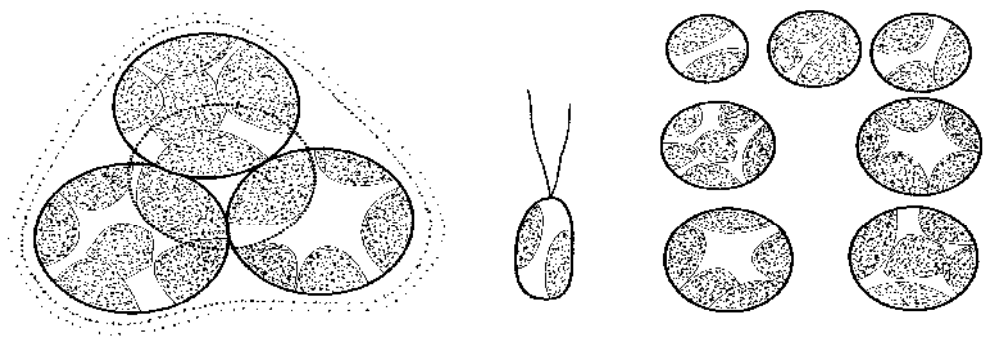
*Nostoc linckia* –

1.

|                 |                          |                             |                         |                 |
|-----------------|--------------------------|-----------------------------|-------------------------|-----------------|
|                 |                          |                             |                         | -               |
| Cyanophyta      | <i>Chroococcales</i>     | <i>Chroococcaceae</i>       | <i>Gloeocapsopsis</i>   | 1               |
|                 | <i>Oscillatoriales</i>   | <i>Oscillatoriaceae</i>     | <i>Oscillatoria</i>     | 1               |
|                 |                          |                             | <i>Lyngbya</i>          | 2               |
|                 |                          | <i>Phormidiaceae</i>        | <i>Phormidium</i>       | 7               |
|                 |                          |                             | <i>Symploca</i>         | 1               |
|                 |                          |                             | <i>Microcoleus</i>      | 1               |
|                 |                          | <i>Leptolyngbyoideae</i>    | <i>Leptolyngbya</i>     | 3               |
|                 | <i>Nostocales</i>        | <i>Rivulariaceae</i>        | <i>Calothrix</i>        | 1               |
|                 |                          |                             | <i>Nostocaceae</i>      | <i>Anabaena</i> |
|                 |                          |                             | <i>Trichormus</i>       | 1               |
|                 |                          | <i>Nodularia</i>            | 2                       |                 |
|                 |                          | <i>Nostoc</i>               | 4                       |                 |
| Chlorophyta     | <i>Volvocales</i>        | <i>Haematococcaceae</i>     | <i>Chlorogonium</i>     | 1               |
|                 | <i>Chlorococcales</i>    | <i>Chlorococcaceae</i>      | <i>Tetracystis</i>      | 1               |
|                 | <i>Protosiphonales</i>   | <i>Chlorosarcinaceae</i>    | <i>Neochlorosarcina</i> | 1               |
|                 | <i>Chaetophorales</i>    | <i>Chaetophoraceae</i>      | <i>Pseudendoclonium</i> | 2               |
|                 | <i>Scenedesmales</i>     | <i>Scenedesmaceae</i>       | <i>Scenedesmus</i>      | 1               |
|                 | <i>Trebouxiales</i>      | <i>Desmococcaceae</i>       | <i>Diplosphaera</i>     | 1               |
|                 | <i>Chlorellales</i>      | <i>Chlorellaceae</i>        | <i>Chlorella</i>        | 2               |
|                 |                          | <i>Stichococcaceae</i>      | <i>Stichococcus</i>     | 1               |
|                 | <i>Chaetopeltidales</i>  | <i>Hormotiellopsidaceae</i> | <i>Planophila</i>       | 1               |
| Xanthophyta     | <i>Mischococcales</i>    | <i>Gloeobotrydaceae</i>     | <i>Gloeosphaeridium</i> | 1               |
| Bacillariophyta | <i>Naviculales</i>       | <i>Naviculaceae</i>         | <i>Navicula</i>         | 1               |
|                 |                          | <i>Stauroneidaceae</i>      | <i>Craticula</i>        | 1               |
|                 | <i>Bacillariales</i>     | <i>Bacillariaceae</i>       | <i>Hantzschia</i>       | 1               |
|                 | <i>Thalassiophysales</i> | <i>Catenulaceae</i>         | <i>Amphora</i>          | 2               |
|                 |                          |                             | <i>Nitzschia</i>        | 2               |
| 4               | 15                       | 20                          | 27                      | 44              |



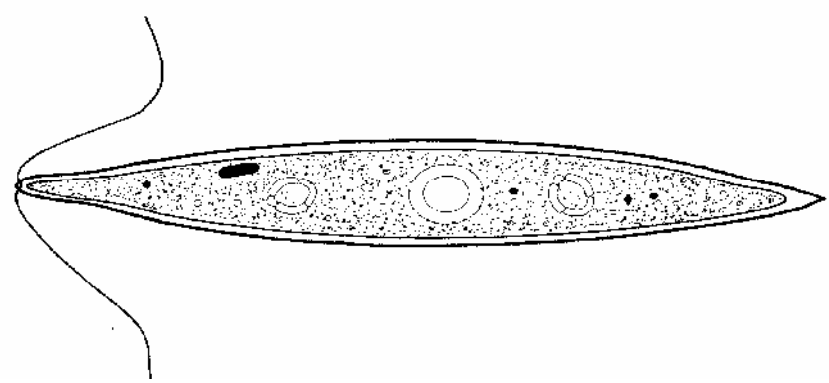
1. *Spermatozopsis exsultans* Korschikoff



1. 2. 3.

2. *Gloeosphaeridium firmum* Pascher.

1 - , 2 - , 3 -



3. *Chlorogonium elongatum* Dangeard

( .2).

2.

|  | 1080  |     | -    | %   | -  | %   |
|--|---|-----|------|-----|----|-----|
|  | -   | %   | 1015 | 94  | 65 | 6   |
|  | <i>Gloeocapsopsis crepidinum</i> (Thuret)<br>Geitler ex Komarek | 3   | 0.3  | 0   | 0  | 3   |
| <i>Lyngbya semiplena</i> (G. Ag.) J. Ag. | 10  | 0.9 | 2    | 0.2 | 8  | 0.7 |

|  |     |      |     |      |    |     |
|--|-----|------|-----|------|----|-----|
| <i>Lyngbya aestuarii</i> (Ment.) Lemberg   | 11  | 1    | 5   | 0.5  | 6  | 0.6 |
| <i>Phormidium laetevirens</i> (Crouan ex Gomont) Anagnostidis et Komárek             | 2   | 0.2  | 2   | 0.2  | 0  | 0   |
| <i>Phormidium paulsenianum</i> B.Peters  | 58  | 5.4  | 28  | 2.6  | 30 | 2.8 |
| <i>Phormidium ambiguum</i> Gom.  | 27  | 2.5  | 24  | 2.2  | 3  | 0.3 |
| <i>Phormidium corium</i> (Ag.) Gom.  | 10  | 0.1  | 7   | 0.7  | 3  | 0.3 |
| <i>Phormidium subfuscum</i> (Ag.) Kützing  | 13  | 1.2  | 11  | 1    | 2  | 0.2 |
| <i>Phormidium retzii</i> (Ag.) Gom   | 11  | 1    | 11  | 1    | 0  | 0   |
| <i>Symploca muscorum</i> (Agardh) Gomont   | 16  | 1.5  | 6   | 0.6  | 10 | 1   |
| <i>Microcoleus chthonoplastes</i> (Fl. Dan.) Thur.                                   | 27  | 2.5  | 10  | 1    | 17 | 1.6 |
| <i>Leptolyngbya frigida</i> (Fritsch.) Komárek et Anagnostidis                       | 37  | 3.4  | 30  | 3    | 7  | 0.6 |
| <i>Leptolyngbya fragilis</i> (Gomont) Anagnostidis et Komárek                        | 34  | 3.1  | 30  | 3    | 4  | 0.4 |
| <i>Leptolyngbya tenue</i> (Menegh.) Gom. Komárek et Anagnostidis                     | 41  | 3.8  | 39  | 3.6  | 2  | 0.2 |
| <i>Leptolyngbya perelegans</i> (Lemmermann) Anagnostidis et Komárek                  | 1   | 0.1  | 0   | 0    | 1  | 0.1 |
| <i>Calothrix elenkinii</i> Kossinskaya   | 21  | 2    | 19  | 2    | 2  | 0.2 |
| <i>Anabaena solicola</i> Kondrat.  | 1   | 0.1  | 0   | 0    | 1  | 0.1 |
| <i>Trichormus variabilis</i> (Kützing ex Bornet et Flahault) Komárek et Anagnostidis | 32  | 3    | 12  | 1.1  | 20 | 1.9 |
| <i>Nodularia spumigena f. spumigena</i> Mertens 1822                                 | 3   | 0.3  | 0   | 0    | 3  | 0.3 |
| <i>Nodularia harveyana f.harveyana</i> (Thwaites) Thuret                             | 26  | 2.4  | 3   | 0.3  | 23 | 2.1 |
| <i>Nostoc punctioforme</i> (Kütz.) Hariot  | 80  | 7.4  | 71  | 7    | 9  | 0.8 |
| <i>Nostoc cuticulare. f polymorphum</i> Born. et Flah                                | 1   | 0.1  | 0   | 0    | 1  | 0.1 |
| <i>Nostoc paludosum</i> (Kützing) Elenkin  | 35  | 3.2  | 35  | 3.2  | 0  | 0   |
| <i>Nostoc linckia</i> (Roth.) Born. et Flah..  | 49  | 4.5  | 46  | 4.3  | 3  | 0.3 |
| <i>Tetracystis macrostigmata</i> Nakano  | 5   | 0.5  | 5   | 0.5  | 0  | 0   |
| <i>Neochlorosarcina deficiens</i> Groover et Bold                                    | 2   | 0.2  | 2   | 0.2  | 0  | 0   |
| <i>Scenedesmus acutus var. acutus</i> Meyen  | 2   | 0.2  | 2   | 0.2  | 0  | 0   |
| <i>Diplosphaera chodatii</i> Bialosuknia emend. Visher Bory                          | 6   | 0.6  | 6   | 0.6  | 0  | 0   |
| <i>Chlorella minutissima</i> Fott et Novakova  | 124 | 11.5 | 124 | 11.4 | 0  | 0   |
| <i>Chlorella vulgaris</i> Beijerinck   | 221 | 20.5 | 219 | 20.4 | 2  | 0.2 |
| <i>Stichococcus bacillaris</i> Nägeli  | 88  | 8    | 87  | 8    | 1  | 0.1 |
| <i>Planophila bipyrenoidosa</i> Reisingl   | 2   | 0.2  | 2   | 0.2  | 0  | 0   |
| <i>Amphora veneta</i> Kützing  | 3   | 0.3  | 3   | 0.3  | 0  | 0   |
| <i>Hantzschia amphioxys</i> (Ehrenberg) Grunow in Cleve et Grunow                    | 324 | 30   | 319 | 30   | 5  | 0.5 |

48 %

: *Leptolyngbya frigida*, *Hantzschia amphioxys*, *Nosoc linckia* ( ).

( ), : *Lyngbya aestuarii*, *Phormidium paulsenianum*, *Phormidium corium*, *Symploca muscorum*, *Microcoleus chthonoplastes*.  
*Phormidium corium*,

(1972) (1968),

8 (18 %). 8 « 6, »,

: *Trich rmus variabilis*, *Nodularia harveyana*, *Nodularia spumigena*, *Lyngbya semiplena*, *Leptolyngbya perelegans*, *Nostoc cuticulare. f polymorphum*. 2 : *Gloeocapsopsis crepidinum*, *Anabaena solicola*,

(23 %), : *Spermatozopsis exsultans*, *Chlorogonim elongatum*, *Pseudendoconium sp.* *Gloeosphaeridium firmum*, *Chratikula halophila* (Grun. in V.H) Mann in Round, *Navicula exigua* Grunow in Van Heurek, *Amphora coffeaformis* (Agardh) Kützing, *Nitzschia nana* Grunow, *Nitzschia sigmoidea* (Nitzsch) W.Smith., *Oscillatoria tenuis* Agardh ex Gomont.

*Pseudendoconium sp.*,

*Pseudendoconium s .*,

*Chlorophyta*,

: *Amphora coffeaformis*,

*Chratikula halophila* *Nitzschia nana*.

: *Pseudendoconium s .* *Lyngbya aestuarii*, *Phormidium paulsenianum*, *Microcoleus chthonoplastes*, *Nosoc linckia*, *Trich rmus variabilis*, *Nodularia harveyana f. harveyana*, *Nodularia spumigena f. spumigena*, *Lyngbya semiplena*, *Leptolyngbya perelegans*, *Amphora coffeaformis*, *Chratikula halophila*, *Nitzschia nana*, *Leptolyngbya frigida*.

1. (2632,7 /100 ) pH 7,6 ( )

2. 4- : *Cyanophyta*- 25 , *Chlorophyta*- 11, *Bacillariophyta*- 7, *Xanthophyta*- 1. 44

*Oscillatoriales* *Nostocales*,

3. : *Pseudendoconium s .* *Lyngbya aestuarii*, *Phormidium paulsenianum*, *Microcoleus chthonoplastes*, *Nosoc linckia*, *Trich rmus variabilis*, *Nodularia harveyana f. harveyana*, *Nodularia spumigena f. spumigena*, *Lyngbya semiplena*, *Leptolyngbya perelegans*, *Amphora coffeaformis*, *Chratikula halophila*, *Nitzschia nana*, *Leptolyngbya frigida*.

4.

*Gloeosphaeridium firmum*.

5.

(48%)

*Chlorophyta*.

18%

11% -

Chlorococcales, Chlorosarcinales). – : , 1998. – 351 . (Chlorophyta: Tetrasporales, Chlorococcales, Chlorosarcinales). – : , 1979 .- 160 .

