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2004

Cystoseira neglecta, *Sargassum* sp., *Undaria pinnatifida*, *Nacella concinna*, 64

5

(56)

(4),

(2),

(1)

(1).

51

13

Coscinodiscus radiatus, *Odontella aurita* *Thalassiothrix longissima*,

Microcystis pulverea, *Gleocapsa magma*, *Phormidium tenue*, *Aulacoseira islandica*,

Chlamydomonas nivalis *Monoraphidium antarcticus*,

10

1902

(, 1997).

« »

65 13` – 65 16`

: 64 12` – 64 21`

100

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»,

1996

50

(, 1997).
 1,1-0,8 28,40-32,20 %,
 7,87-8,42.
 10,50-12,88 / ,
 - 47-107 / , - 4-29 / , - 132-264 /
 (, 1997). 5 0,04 2,60 / .
 (, 1998; , 1998; Gusliakov et al., 2004;
 , 2006)
Ballia callitricha, *Ptilionia magellanica*,
Porphyra sp. (1998).
 (1998) 23
 8
 « ».
Thalassiosira antarctica Comber, *Coscinodiscus*
inflatus Karsten, *Chaetoceros teses* Cl., *Fragilariopsis curta* (V.H.) Hust., *Synedra*
reinboldii V.H. - *Iridea cordata*,
Rhodomenia palmate, *Rh. pacifica*, *Odontaria dentate*, *Cystoseira neglecta*, *Sargassum*
sp., *Monostroma grevillei*, *Urospora wormskioldii*.
 . (Gusliakov et al., 2004), 9
 « »
Gloeocapsa alpina, *Anabaena sedovii*,
Synechococcus aeruginosus, *Aphanizomenon flos-aquae*, *Aulacoseira islandica*.
 . . . (2006) (4)
 :
Achnanthes brevipes Ag., *Glyphodesmis acus* Mann, *Licmophora abbreviata* Ag.,
Odontella aurita (Lyngb.) Ag.

15

- 2004 .
 - (*Cystoseira neglecta*, *Sargassum* sp., *Undaria pinnatifida*
 (Harv.) Suring), (*Nacella concinna*),
 -
 -
 4 %- 34 .

(..., 1974).

(1957). 14

() Ergaval Zeiss ().

: Schmidt, 1874-1958; Hustedt, 1927-1966, 1958; Cupp, 1943; ..., 1949-1950; Cleve-Euler, 1951-1956; , 1960; 1964; Hendey, 1964; Foged, 1973; ..., 1974-2002; 1989; , 1992; Witkowski et al., 2000).

. (Round et al., 1990),

(..., 1951-1986; , 1990) « ...» (2000).

64 5
: *Cyanophyta*, *Chrysophyta*, *Dinophyta*, *Bacillariophyta* *Chlorophyta* (. 1).

1.

		-	-	
1	2	3	4	5
CYANOPHYTA				
<i>Chroococcophyceae</i>				
<i>Chroococcales</i>				
<u><i>Microcystidaceae</i></u>				
<i>Microcystis</i> (Kütz.) Elenk.				
*1. <i>M. pulverea</i> (Wood) Forti	i	i	o-	k
<i>Gloeocapsaceae</i>				
<i>Gloeocapsa</i> (Kütz.) Hollerb.				
*2. <i>G. magma</i> (Bréb.) Hollerb.	i	i		k
<i>Hormoniophyceae</i>				
<i>Oscillatoriales</i>				
<i>Phormidium</i> Kütz.				
*3. <i>Ph. antarcticum</i> W. et G.S. West	i			an
*4. <i>Ph. tenue</i> (Menegh.) Gom.	i	alkf	-	k

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1	2	3	4	5
CHRYSOPHYTA				
<i>Chrysophyceae</i>				
<i>Dictyochales</i>				
<i>Dictyochaceae</i>				
<i>Distephanus</i> Stohr.				
5. <i>D. speculum</i> (Her.) Haeck.	pg	alkf		k
DINOPHYTA				
<i>Dinophyceae</i>				
<i>Peridinales</i>				
<u><i>Peridiniaceae</i></u>				
<i>Peridinium</i> Ehr.				
6. <i>Peridinium</i> sp.	pg	alkf		
BACILLARIOPHYTA				
<u><i>Coscinodiscophyceae</i></u>				
<i>Thalassiosirales</i>				
<i>Thalassiosiraceae</i>				
<i>Thalassiosira</i> Cl.				
7. <i>T. antarctica</i> Comber	pg	alkf		a-an
8. <i>T. excentrica</i> (Her.) Cl.	pg	alkf		k
<i>Coscinodiscales</i>				
<i>Hemidiscaceae</i>				
<i>Actinocyclus</i> Ehr.				
9. <i>A. octonarius</i> Her.	pg	alkf		k
<i>Coscinodiscaceae</i>				
<i>Coscinodiscus</i> Ehr.				
10. <i>C. jonesianus</i> (Grev.) Ostf.	pg	alkf		k
11. <i>C. radiatus</i> Ehr.	pg	alkf		k
12. <i>C. superbus</i> Hardm. var. <i>novae seelandiae</i> Grove	pg	alkf		e
<i>Psammodiscus</i> Round et Mann				
13. <i>P. nitidus</i> (Greg.) Round et Mann	pg	alkf		k
<i>Trigoniumaceae</i>				
<i>Trigonium</i> Cl.				
14. <i>T. formosum</i> (Bright) Mann	pg	alkf		k
<i>Asterolampraceae</i>				
<i>Asteromphalus</i> Ehr.				
15. <i>A. ralfsianus</i> (Norman) Grun.	pg	alkf		
<i>Melosirales</i>				
<i>Melosiraceae</i>				
<i>Melosira</i> Ag.				
16. <i>M. juergensii</i> Ag.	pg	alkf		k
*17. <i>Melosira</i> sp.				
<i>Aulacoseirales</i>				
<i>Aulacoseiraceae</i>				
<i>Aulacoseira</i> Thw.				
*18. <i>A. islandica</i> (Mull.) Sim.	i	alkf		k

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1	2	3	4	5
<i>Triceratiales</i>				
Triceratiaceae				
<i>Odontella</i> Ag.				
19. <i>O. aurita</i> (Lyngb.) Ag.	pg	alkf		k
<i>Chaetocerotales</i>				
Chaetoceraceae				
<i>Chaetoceros</i> Ehr.				
20. <i>Ch. atlanticus</i> Cl.	pg	alkf		k
Fragilariophyceae				
<i>Fragilariales</i>				
Fragilariaceae				
<i>Fragilaria</i> Lyngb.				
21. <i>F. hyaline</i> (Kütz.) Grun.	pg	alkf		a-b
<i>Synedra</i> Ehr.				
22. <i>S. goulardii</i> (Bréb.) Hust.	m	alkf		
*23. <i>S. ulna</i> (Nitzsch) Her.	i	alkf	x-	k
<i>Tabularia</i> (Kütz.) Will. et Round				
24. <i>T. fasciculata</i> (Ag.) Will. et Round	m	i		k
<i>Thalassiothrix</i> Cl. et Grun.				
25. <i>Th. longissima</i> Cl. et Grun.	pg	alkf		k
Diatomaceae				
<i>Diatoma</i> Bory				
26. <i>D. vulgare</i> Bory var. <i>ehrenbergii</i> (Kütz.) Grun.	gl	i	x-o	
<i>Tabellariales</i>				
Tabellariaceae				
<i>Climacosphenia</i> Ehr.				
27. <i>C. moniliger</i> Ehr.	pg	alkf		k
<i>Licmophorales</i>				
Licmophoraceae				
<i>Licmophora</i> Ag.				
28. <i>L. abbreviata</i> Ag.	pg	alkf		k
29. <i>L. ehrenbergii</i> (Kütz.) Cl. var. <i>grunovii</i> (Mer.) Hust.	pg	alkf		k
30. <i>Licmophora</i> sp.				
<i>Thalassionematales</i>				
Thalassionemataceae				
<i>Thalassionema</i> Grun.				
31. <i>T. nitzschioides</i> Grun.	pg	alkf		k
<i>Striatellales</i>				
Striatellaceae				
<i>Grammatophora</i> Ehr.				
32. <i>G. marina</i> (Lyngb.) Kütz.	pg	alkf		k
33. <i>G. serpentina</i> (Ralfs) Ehr.	pg	alkf		k
Bacillariophyceae				
<i>Cymbellales</i>				

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1	2	3	4	5
Cymbellaceae				
<i>Cymbella</i> Ag.				
*34. <i>C. cistula</i> (Hemp.) Grun.	i	alkf		k
Gomphonemataceae				
<i>Gomphonema</i> (Ag.) Ehr.				
35. <i>G. exiquum</i> Kütz.				
36. <i>G. kamtschaticum</i> Grun.	pg	alkf		a-an
Rhoicospheniaceae				
<i>Rhoicosphenia</i> Grun.				
37. <i>R. flexa</i> Giffen	pg	alkf		e
<i>Achnanthes</i>				
Achnanthaceae				
<i>Achnanthes</i> Bory				
38. <i>A. brevipes</i> Ag. var. <i>intermedia</i> (Kütz.) Cl.	pg	alkf		k
Cocconeidaceae				
<i>Cocconeis</i> Ehr.				
39. <i>C. antiqua</i> Temp. et Br.	pg	alkf		
40. <i>C. californica</i> Grun.	pg	alkf		k
41. <i>C. costata</i> Greg.	pg	alkf		k
42. <i>C. distans</i> Greg.	pg	alkf		k
43. <i>C. imperatrix</i> A.S.	pg	alkf		an
44. <i>C. pinnata</i> Greg.	pg	alkf		b-n
45. <i>C. scutellum</i> Ehr.	pg	alkf		k
<i>Naviculales</i>				
Pinnulariaceae				
<i>Pinnularia</i> Ehr.				
46. <i>P. quadratarea</i> (A.S.) Cl.	pg	alkf		a-b
Naviculaceae				
<i>Navicula</i> Bory				
47. <i>N. cruciculoides</i> Brockm.	pg	alkf		
48. <i>N. directa</i> (W. Sm.) Ralfs	pg	alkf		a-b
49. <i>N. pennata</i> A.S.	pg	alkf		k
<i>Trachyneis</i> Cl.				
50. <i>T. aspera</i> (Ehr.) Cl.	pg	alkf	o	k
Pleurosigmataceae				
<i>Pleurosigma</i> W. Sm.				
51. <i>P. directum</i> Grun.	pg	alkf		
<i>Thalassiosiphysales</i>				
Catenulaceae				
<i>Amphora</i> Ehr.				
52. <i>A. caroliniana</i> Giffen	pg	alkf		k
53. <i>A. proteus</i> Greg.	pg	alkf		k
<i>Bacillariales</i>				
Bacillariaceae				
<i>Fragilariopsis</i>				

1	2	3	4	5
54. <i>Fragilariopsis antarctica</i> (Castr.) Hust.	pg	alkf		an
<i>Nitzschia</i> Hass.				
*55. <i>N. capitellata</i> Hust.	i	i		k
*56. <i>N. communis</i> Rabenh. var. <i>abbreviate</i>	i	i		k
57. <i>N. dissipata</i> (Kütz.) Grun.	gl	alkf		k
*58. <i>N. gracilis</i> Hantzsch	i	i		k
59. <i>N. hybrida</i> Grun.	m	alkf		k
<i>Tryblionella</i> W. Sm.				
60. <i>T. punctata</i> W. Sm.	pg	alkf		k
<i>Surirellales</i>				
<i>Surirellaceae</i>				
<i>Cymatopleura</i> W. Sm.				
61. <i>C. librile</i> (Ehr.) Pant.	i	alkf		k
<i>Entomoneidaceae</i>				
<i>Plagiotropis</i> Pfitz.				
62. <i>P. antarctica</i> Cl.	pg	alkf		an
CHLOROPHYTA				
<i>Chlorophyceae</i>				
<i>Chlamydomonadales</i>				
<i>Chlamydomonadaceae</i>				
<i>Chlamydomonas</i> Ehr.				
*63. <i>Ch. nivalis</i> Fritsch	i	i		a-n
<i>Chlorococcales</i>				
<i>Ankistrodesmaceae</i>				
<i>Monoraphidium</i> Kom.-Legn.				
*64. <i>M. antarcticus</i> (Kol. et Flint) Kom.-Legn.	i	i		an
: pg – ; m – ; gl – ; i – ; alkf – ; k – ; – ; – ; a – ; b – ; t – ; n – ; an – ; e – ; – ; – ; * –				

Bacillariophyta (56).

(. 2).

Chaetoceros atlanticus, *Coscinodiscus radiatus*,
Odontella aurita, *Psammmodiscus nitidus*, *Thalassiothrix longissima*.
Asteromphalus ralfsianus, *Coscinodiscus jonesianus*, *C. superbus*
var. *novae seelandiae*, *Melosira juergensii*, *Trigonium formosum*, *Distephanus speculus*.

(30)

Ulothrix Kütz.
Urospora Aresch.

2.

<i>Bacillariophyta</i>	3	15	25	33	56
<i>Cyanophyta</i>	2	2	3	3	4
<i>Chlorophyta</i>	1	2	2	2	2
<i>Dinophyta</i>	1	1	1	1	1
<i>Chrysophyta</i>	1	1	1	1	1
	8	21	32	40	64

Licmophora abbreviata, *L. ehrenbergii*, *Grammatophora marina*, *Climacosphenia moniligera*, *Synedra goulardii*, *Thalassionema nitzschioides*, *Tabularia fasciculata*, *Cocconeis imperatrix*,
Licmophora abbreviate, *L. ehrenbergii*, *Navicula directa*.

Cystozeira neglecta, *Undaria pinnatifida*, *Sargassum* sp.

Licmophora ehrenbergii, *Achnanthes brevipes* var. *intermedia*, *Cocconeis antiqua*, *C. californica*, *C. distans*, *C. imperatrix*, *C. scutellum*, *Gomphonema kamchaticum*, *Navicula cruciculoides*, *Amphora proteus* (I-III).
Sargassum sp. *Nacella concinna*,

Achnanthes brevipes var. *intermedia*, *Licmophora ehrenbergii*, *Cocconeis antiqua*, *C. imperatrix*.

Navicula directa, *Pinnularia quadratarea*, *Pleurosigma directum*, *Trachyneis aspera*, *Amphora caroliniana*, *A. proteus*, *Plagiotropis antarctica*, *Nitzschia hybrida*.

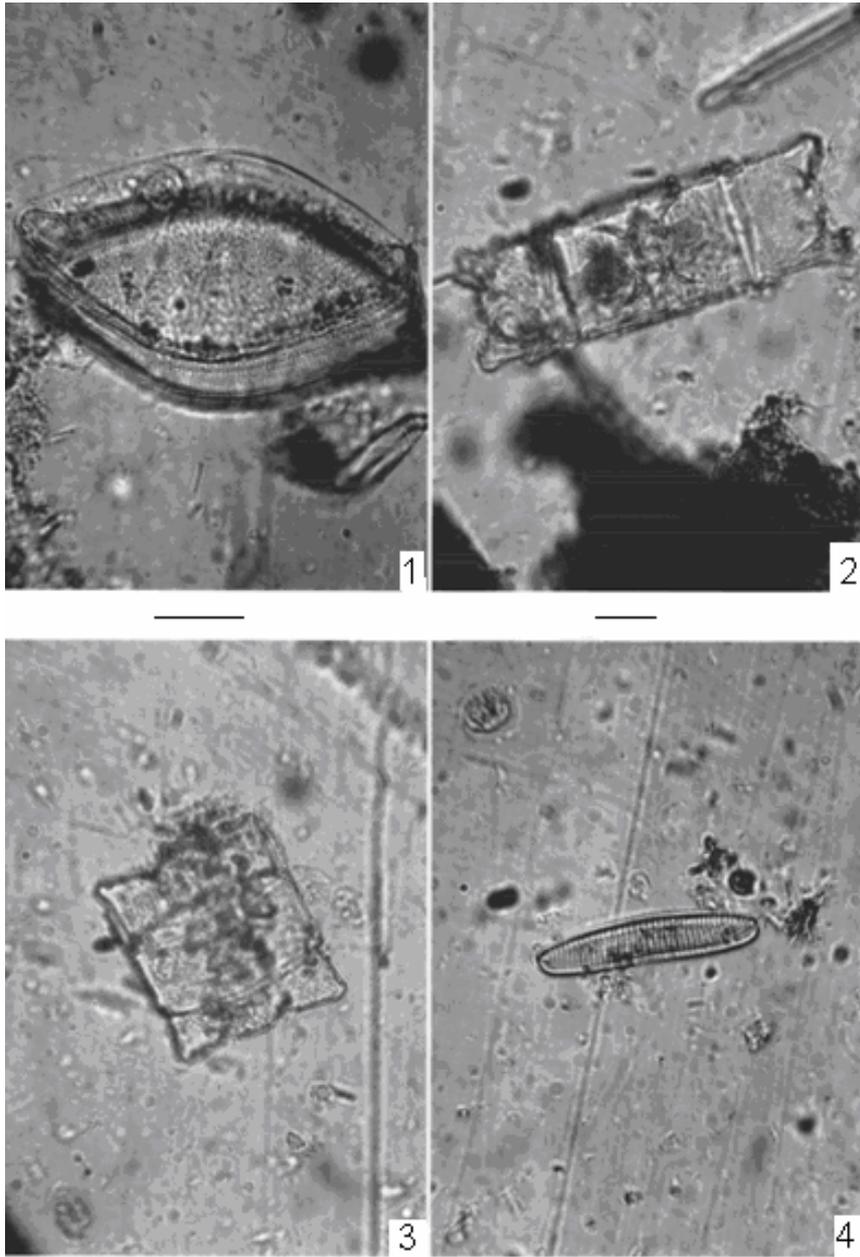
(4-5).

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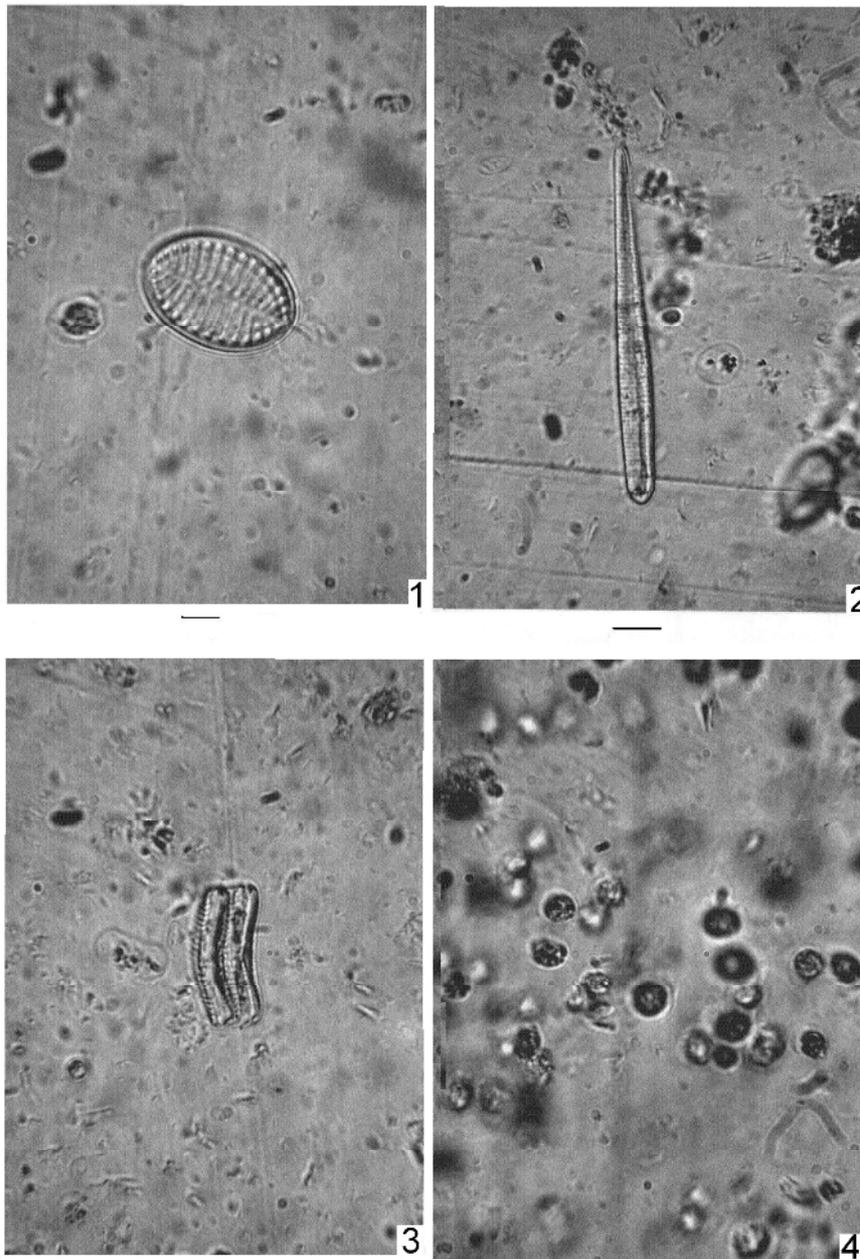
(*Chaetoceros* spp.).

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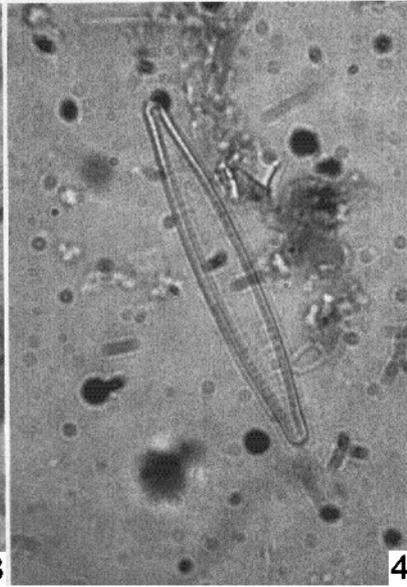
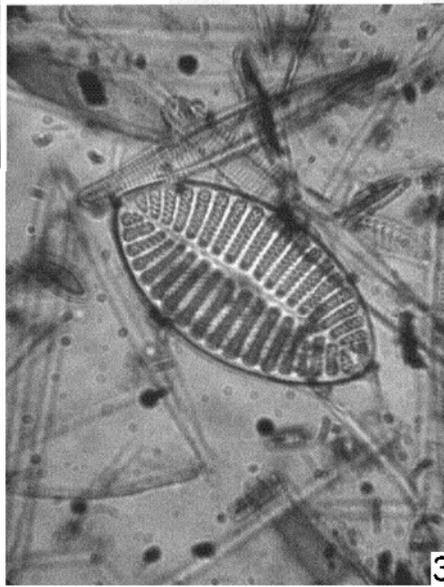
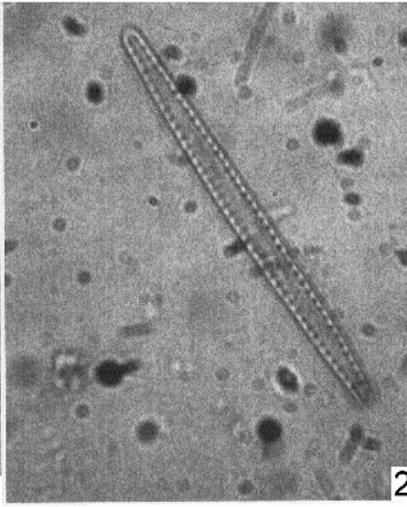
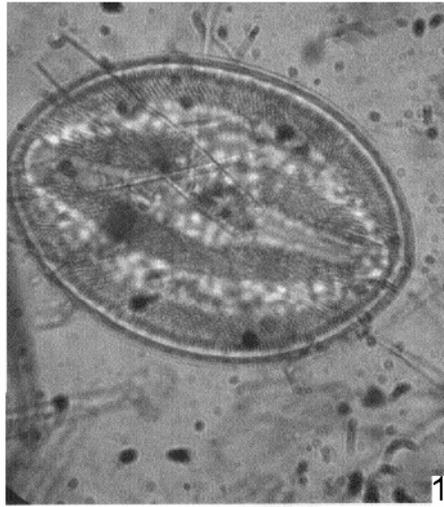
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. I. 1-3 - *Odontella aurita* Ag. (1 - ; 2, 3 -); 4 - *Achnanthes brevipes* Ag. var. *intermedia* (Kütz.) Cl. - .



II. 1 – *Cocconeis imperatrix* A. S. – ; 2 – *Licmophora ehrenbergii* (Kütz.) Cl. var. *grunovii* (Mer.) Hust. – ; 3 – *Achnanthes brevipes* Ag. var. *intermedia* (Kütz.) Cl. – ; 4 – *Microcystis pulverea* (Wood) Forti –



. III. 1 – *Cocconeis antiqua* Temp. et Brun. –
; 3 – *Cocconeis imperatrix* A. S. –

; 2 – *Thalassionema nitzschioides* Grun. –
; 4 – *Synedra goulardii* (Bréb.) Hust. –

Microcystis pulverea, *Gloeocapsa magma*, *Phormidium tenue*, *Aulacoseira islandica*, *Cymbella cistula*, *Chlamydomonas nivalis*, *Monoraphidium antarcticum*.

Oscillatoria, *Lyngbya* *Phormidium*.
Melosira sp., *Fragilaria* sp., *Nitzschia communis* var. *abbreviata*.

64

27

: *Coscinodiscus radiatus*, *C. superbus* var. *novae seelandiae*, *Psammodiscus nitidus*, *Asteromphalus ralfsianus*, *Synedra goulardii*, *Licmophora ehrenbergii*, *Cocconeis antiqua*, *C. pellucida*, *C. imperatrix*, *Navicula cruciculoides*, *Pinnularia quadratarea*, *Nitzschia hybrida*, *Climacosphenia moniligera* ., 5

: *Coscinodiscus superbus* var. *novae seelandiae*, *Asteromphalus ralfsianus*, *Synedra goulardii*, *Cocconeis antiqua* *Navicula cruciculoides*.

64

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, 5 –

(62,5 %, 40)

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ALGAE OF MARINE LITTORAL AND INLAND WATER BODIES OF GALINDEZ ISLAND
(ARGENTINE ISLANDS, ANTARCTIC)

This research reveals the results of 34 algological samples collected in marine littoral and inland water bodies of Galindez Island. Samples were collected in February-March 2004 from the surface of thalli of macrophytic algae *Cystoseira neglecta*, *Sargassum* sp., *Undaria pinnatifida*, and shells of *Nacella concinna*,

rocks, snow, and ice. A total of 64 taxa belonging to five divisions of algae were revealed. Diatoms (56 species) made up the majority in species diversity; cyanophytes (4 species), chlorophytes (2), chryzophytes (1) and dinophytes (1) were poorly represented. In marine littoral of Galindez Island 51 species were recorded, and 13 species occurred in inland lakes. *Coscinodiscus radiatus*, *Odontella aurita*, and *Thalassiothrix longissima* dominated in marine littoral. *Microcystis pulverea*, *Gleocapsa magma*, *Phormidium tenue*, *Aulacoseira islandica*, *Chlamydomonas nivalis*, and *Monoraphidium antarcticus* were abundant on the snow and ice surface coloring it in yellow-green and red tints.

Keywords: algae, Galindez Island, Argentine Islands, Antarctic.

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 ... // ...
 – 1998. – .2. – .214-227.
 ...
 ... , 1992. – 112 .
 ... , 1974. – .1. – 403 ; 1988. –
 .2, .1. – 116 ; 1992. – .2, .2. – 125 ; 2002. – .2, .3. – 111 .
 . – ; : , 1949. – .2. – 238 ; 1950. – .3. – 398 .
 ... // – 1997. –
 .1. – .141-148.
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 ... – : ,
 1964. – 167 .
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 , 1989. – 160 .
 ... // – 1960. – .1. –
 .68-338.
 ... (...) // – 1975. – **60**, 7. –
 .1031-1043.
 ... – : , 1951-1986. – .1-8, 10, 11, 13, 14.
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