



( , 1989).

( п ., 1953; п , 1968; i ., 1984; Komárek, Anagnostidis, 1999).

Суанопрокарюта,

[www.cyanodb.cz](http://www.cyanodb.cz) (Komárek, Hauer, 2010).

182 , 198 -  
 ( . 1). (4 0,9 %  
 Суанопрокарюта) *Oscillatoriophycideae*,  
 2 , 6 81 .  
*Phormidiaceae* (15,7 % ),  
 . *Boriziaceae* (1 %).  
*Chroococcus turgidus* (Kütz.) Nägeli,  
*Lyngbya martensiana* Menegh. ex Gomont, *Oscillatoria amoena* (Kütz.) Gomont,  
*Phormidium chalybeum* (Mert. ex Gomont) Anagn. et Komárek, *Ph. limosum* (Dillwyn)  
 P.C. Silva.

*Synechococcophycideae*,  
 2 , 4 , 79 , 83 -  
 , 41,9 % .  
*Leptolyngbya foveolarum* (Mont. ex Gomont) Anagn. et Komárek, *L. tenuis*  
 (Gomont) Anagn. et Komárek, *Spirulina subtilissima* Kütz., *Merismopedia punctata*  
 Meyen, *M. tenuissima* Lemmerm.

*Nostocophycideae* 30 (17,2 %),  
 (14,1 %) . *Nostocaceae*.

5 2 ,

*Phormidium* (13,1 %).

*Anabaena* (6,6 %), *Oscillatoria* (5,6 %), *Lyngbya* (5,1 %), *Aphanothece* (4,5 %),  
*Leptolyngbya*, *Merismopedia* *Spirulina* ( 4 %).

*Coelomoron*,  
*Coelosphaerium*, *Chamaesiphon*, *Borzia*, *Snowella*, *Woronichinia* ..,

13,8 %.

(Zarei-Darki, 2009).

Суанопрокарюта

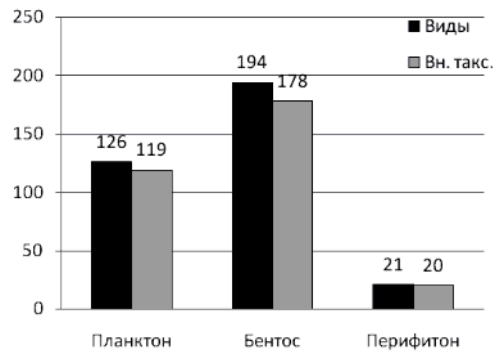
( , )

1.

T	-	%	T	-	%
<b>Synechococophycideae</b>	83	41.9	Microcystaceae	15	7.6
Pseudanabaenales	34	17.2	<i>Chondrocystis</i> Lemmerm.	1	0.5
Pseudanabaenaceae	34	17.2	<i>Gloeocapsa</i> Kütz.	7	3.5
Leptolyngbyoideae	11	5.6	<i>Microcystis</i> Kütz. ex Lemmerm.	7	3.5
<i>Leptolyngbya</i> Anagn. et Komárek	8	4.0	Oscillatoriales	57	28.8
<i>Planktolyngbya</i> Anagn. et Komárek	3	1.5	Boriziaceae	2	1.0
Pseudanabaenoideae	23	11.6	<i>Borzia</i> Cohn ex Gomont	1	0.5
<i>Geitlerinema</i> (Anagn. et Komárek) Anagn.	3	1.5	<i>Komvoporon</i> Anagn. et Komárek	1	0.5
<i>Jaaginema</i> Anagn. et Komárek	7	3.5	Oscillatoriaceae	21	10.6
<i>Limnothrix</i> Meffert	1	0.5	<i>Lyngbya</i> C. Agardh ex Gomont	10	5.1
Pseudanabaena Lauterb.	4	2.0	<i>Oscillatoria</i> Vaucher ex Gomont	11	5.6
<i>Spirulina</i> Turpin ex Gomont	8	4.0	Phormidiaceae	31	15.7
Synechococcales	49	24.7	<i>Leibleinia</i> (Gomont) L. Hoffm.	1	0.5
Chamaesiphonaceae	1	0.5	Microcoleoideae	1	0.5
<i>Chamaesiphon</i> Grunow in Rabenh.	1	0.5	<i>Microcoleus</i> Desm. ex Gomont	1	0.5
Merismopediaceae	27	13.2	Phormidioideae	29	14.6
Gomphosphaerioideae	6	3.0	<i>Arthrospira</i> Sitenb. ex Gomont	1	0.5
Coelomoron Buell	1	0.5	<i>Phormidium</i> Kütz. ex Gomont	26	13.1
<i>Coelosphaerium</i> Nägeli	1	0.5	<i>Planktothrix</i> Anagn. et Komárek	1	0.5
Gomphosphaeria Kütz.	2	1.0	<i>Trichodesmium</i> Ehrenb. ex Gomont	1	0.5
<i>Snowella</i> Elenkin	1	0.5	Schizotrichaceae	3	1.5
Woronichinia Elenkin	1	0.5	<i>Schizothrix</i> Kütz. ex Gomont	1	0.5
Merismopedioideae	21	10.6	<i>Trichocoleus</i> Anagn.	2	1.0
Aphanocapsa Nägeli	5	2.5	Nostocophycideae	34	17.2
<i>Eucapsis</i>	1	0.5	Nostocales	34	17.2
<i>Merismopedia</i> Meyen	8	4.0	Nostocaceae	28	14.1
<i>Microcrocis</i> P.G. Richt.	1	1.0	Anabaenoideae	20	10.1

<i>Synechocystis</i> Sauv.	6	3.0	<i>Anabaena</i> Bory ex Bornet et Flahault	13	6.6
Synechococcaceae	21	10.6	<i>Anabaenopsis</i> V.V. Mill.	2	1.0
Aphanothecoideae	11	5.6	<i>Aphanizomenon</i> Morr. ex Bornet et Flahault	2	1.0
<i>Aphanothece</i> Nägeli	9	4.5	<i>Cylindrospermum</i> Kütz. ex Bornet et Flahault	8	4.0
<i>Cyanothece</i> Komárek	2	1.0			
Synechococcoideae	10	5.1	Nostocoideae	8	4.0
<i>Johannesbaptistia</i> G. De Toni	2	1.0	<i>Nodularia</i> Mert. ex Bornet et Flahault	3	1.5
<i>Rhabdoderma</i> Schmid et Lauterb.	4	2.0	<i>Nostoc</i> Vaucher ex Bornet et Flahault	2	1.0
<i>Rhabdogloea</i> Schröd.	2	1.0	<i>Trichormus</i> (Ralfs ex Bornet et Flahault) Komárek et Anagn.	3	1.5
<i>Synechococcus</i> Nägeli	2	1.0			
<b>Oscillatoriophycideae</b>	81	40.9	Rivulariaceae	6	3.0
Chroococcales	24	12.1	<i>Calothrix</i> C. Agardh ex Bornet et Flahault	3	1.5
Chroococcaceae	9	4.5	<i>Gloeotrichia</i> J. Agardh ex Bornet et Flahault	1	0.5
<i>Chroococcus</i> Nägeli	6	3.0	<i>Rivularia</i> C. Agardh ex Bornet et Flahault	2	1.0
<i>Dactylococcopsis</i> Hansg.	1	0.5	<b>Total</b>	<b>198</b>	<b>100</b>
<i>Gloeocapsopsis</i> Geitl. ex Komárek	2	1.0			

119 (126 .) ( . 1).



1.

Суанопрокариота

*Synechocystis*, *Synechococcus*, *Rhabdoderma*, *Merismopedia*, *Microcystis*, *Aphanothece*, *Gloeocapsa* .

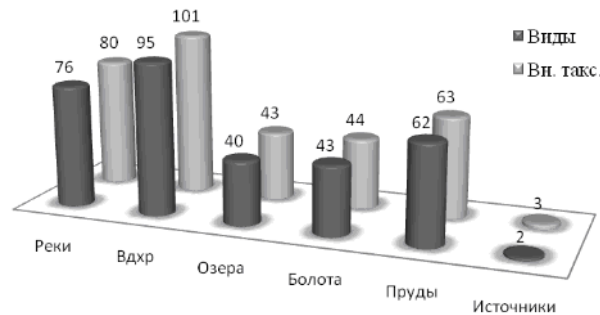
, 76 (80 .) ( . 2),  
63,9 % (63,5 % )  
( . 2). *Dactylo-*

*coccopsis acicularis* Lemmerm., *Rhabdogloea smithii* (R. Chodat et F. Chodat) J. Komárek, *Microcystis aeruginosa* Kütz. emend. Elenkin, *M. grevillei* (Hassall) Elenkin f. *pulchra* (Kütz.) Elenkin, *Chroococcus limneticus* Lemmerm., *Ch. minimus* (Keissler) Lemmerm., *Snowella lacustris* (Chodat) Komárek et Hindák, *Spirulina subtilissima* . ( - , 2009 ).

: *Arthrospira jenneri* Stizenb. ex Gomont, *Planktolyngbya limnetica* (Lemmerm.) Komárk.-Legn. et G. Cronberg.

: *Synechocystis sallensis* Skuja, *Dactylococcopsis acicularis*, *Merismopedia punctata*, *Aphanocapsa grevillei* (Hassall) Rabenh., *Aphanothece castagnei* (Bréb.) Rabenh., *Gloeocapsa minor* (Kütz.) Hollerb. ampl., *Trichormus catenula* (Kütz. ex Bornet et Flahault) Komárek et Anagn.

*Microcystis robusta* (Clark) Nygaard, *Eucapsis alpina* Clem. et Shantz, *Anabaena knipowitschii* Ussazcev, *Trichormus rotundosporus* (Hollerb.) Komárek et Anagn.



. 2.

*Cyanoprokaryota.*

*Cyanoprokaryota* (21,8 % ),

190 / (Jafari, 2000).

*Leptolyngbya foveolarum*, *Pseudanabaena papillaterminata* (Kisselev)

Kukk, *Geitlerinema amphibium* (C. Ag.) Anagn., *Spirulina major* Kütz., *Phormidium breve* (Kütz. ex Gomont) Anagn. et Komárek, *Ph. limosum*, *Johannesbaptistia pellucida* (Dickie) Taylor et Drouet.

*Synechocystis salina* Wislouch.

2.

**Cyanoprokaryota**

	Cyanoprokaryota					
	<u>63.9</u>	<u>79.8</u>	<u>33.6</u>	<u>36.1</u>	<u>52.1</u>	<u>1.7</u>
	63,5	80,2	34,1	34,9	50,0	2,4
	<u>61.8</u>	<u>75.8</u>	<u>45.5</u>	<u>35.4</u>	<u>49.4</u>	<u>12.9</u>
	60,3	75,3	44,8	34,5	48,5	12,9
	<u>35.0</u>	<u>20.0</u>	-	<u>5.0</u>	<u>25.0</u>	<u>35.0</u>
	33,3	19,0	-	4,8	23,8	38,1

%

*Cyanothece*

*aeruginosa* (Nägeli) Komárek, *Rhabdoderma lineare* Schmidle et Lauterborn emend. Hollerb., *Merismopedia glauca* (Ehrenb.) Kütz., *Microcystis pulvereae* (Wood) Forti emend. Elenkin, *Aphanothece stagnina* (Spreng.) Boye Pet. et Geitler, *Gomphosphaeria aponina* Kütz.

*Rhabdoderma*

*irregulare* (Naumann) Geitler, *Rh. lineare*, *Rh. compositum* (G.M. Sm.) Fedorov, *Gloeocapsopsis chroococcoides* (Nová ek) Komárek, *Chroococcus distans* (G.M. Sm.) Komárk.-Legn. et Cronberg, *Gloeocapsa turgida* (Kütz.) Hollerb. f. *mipitanensis* (Wolosz.) Hollerb., *Aphanothece castagnei*, *Spirulina labyrinthiformis* (Menegh.) Gomont, *S. meneghiniana* Zanard.

60,2 %

*Cyanoprokaryota*,

*Synecho-*

*cystis minuscula* Woronich., *Merismopedia punctata*, *Microcystis pulvereae*, *Gloeocapsopsis magma* (Bréb.) Komárek et Anagn., *Snowella lacustris*, *Anabaena azollae* Straburg.

-52,1 % ( . 2).

(Zarei-Darki, 2002).

(2,4 %

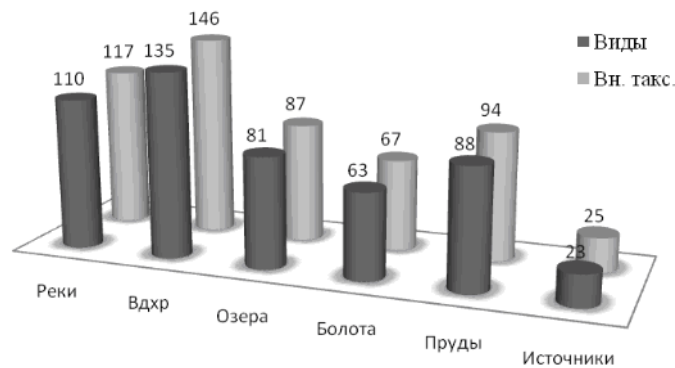
): *Chroococcus*

*minuscula* (Kütz.) Nägeli, *Oscillatoria tenuis* C. Agardh f. *asiatica* Wille *Leptolyngbya foveolarum*.

Cyanoprokaryota – 178 (194 .) –  
*Leptolyngbya*, *Oscillatoria*, *Phormidium*,  
*Lyngbya*, *Anabaena*, *Nodularia* *Calothrix*.  
 110 (117 .), 97,5 %  
 Cyanoprokaryota ( . 3).  
*Oscillatoria amoena*, *Phormidium chalybeum*, *Ph. limosum*, *Spirulina subtilissima*,  
*Leptolyngbya foveolarum*, *Lyngbya aestuarii* (Mert.) Liebm., *Calothrix brevissima*  
 G.S. West .  
 135 (146 .)

75,8 %.

Cyanoprokaryota *Merismopedia convoluta* Bréb., *Chondrocystis*  
*dermochroa* (Nägeli) Komárek et Anagn., *Chamaesiphon incrustans* Grunow,  
*Oscillatoria princeps* Vaucher., *Anabaena bergii* Ostenf., *Rivularia aquatica* (De Wild.)  
 Geitler *Gloeotrichia pisum* (C. Agardh) Thur. *Synechocystis pevalekii* Erceg.,  
*Cyanothece major* (Schröt.) Komárek, *Aphanothece nostocopsis* Skuja, *A. stagnina*  
 (Spreng.) Boye Pet. et Geitler f. *prasina* (A. Braun.) Elenkin, *Jaaginema kisselevii*  
 (Anisimova) Anagn. et Komárek, *Phormidium paulsenianum* Boye Pet. *Ph. toficola*  
 (Nägeli) Gomont .



. 3.

(63 .)  
*Chroococcus turgidus*,  
*Phormidium laetevirens* (P. Crouan et H. Crouan ex Gomont) Anagn. et Komárek, *Ph.*  
*limosum*, *Ph. papyraceum* (C. Agardh) Gomont, *Oscillatoria spirulinoides* Woronich.,  
*Merismopedia minima* Beck., *Synechocystis minuscula*.  
 ( . - ,  
 2009 ).

– 88 (94 .).  
 : *Aphanothece castagnei*, *Phormidium ambiguum* Gomont,

*Leptolyngbya foveolarum*, *Microcoleus subtorulosus* (Bréb.) Gomont, *Nodularia harveyana* (Thw.) Thur. *Calothrix marchica* Lemmerm.

*Synechococcus elongatus* Nägeli, *Merismopedia punctata*, *M. tenuissima*, *Leptolyngbya laminosum* (Gomont) Anagn. et Komárek, *Lyngbya aestuarii*, *L. martensiana* *Pseudo-anabaena catenata* Lauterb.

Цианопрокарьюта

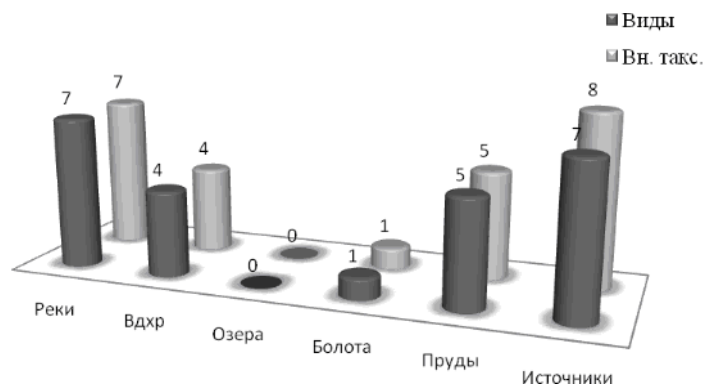
– 20 (21 ),

( . 4). *Geitlerinema amphibium*, *Phormidium limosum*, *Leptolyngbya fragilis* (Gomont) Anagn. et Komárek, *Lyngbya martensiana* *Trichormus rotundosporus*

5,8 %

*Leptolyngbya tenuis*, *Phormidium carboniciphilum* (Prát) Anagn. et Komárek, *Ph. okenii* (C. Agardh) Anagn. et Komárek, *Ph. terebriforme* (C. Agardh ex Gomont) Anagn. et Komárek. *Jaaginema geminatum* (Menegh. ex Gomont) Anagn. et Komárek, *Phormidium irriguum* (Kütz. ex Gomont) Anagn. et Komárek, *Oscillatoria tenuis* f. *nigra* (Schkorb.) Elenkin, *Trichocoleus sociatus* (West et G.S. West) Anagn.

*Phormidium breve*, *Ph. chalybeum*, *Ph. valderiae* (Delponte.) Geitler. *Oscillatoria amoena*, *Geitlerinema amphibium*, *Phormidium limosum*, *Schizothrix fuscescens* Kütz. *Nostoc pruniforme* C. Agardh



. 4.



, *Cyanoprokaryota*  
182  
(198 ), 3 , 5 , 12 52  
.  
119 (126 ), – 178 (194 .  
).  
– 20 (21 ).

*Cyanoprokaryota*

*Cyanoprokaryota.*

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CYANOPROKARYOTA FROM DIFFERENT WATER BODIES OF IRAN

Materials for the present article are based on investigations carried out during 2000-2009 from 125 water bodies in Iran; 182 species (198 infraspecific taxa) of blue-green algae were revealed. The species richness and taxonomic structure of blue-green algae, which has been found in different biotopes, were unequal. One hundred and nineteen species (119) (126 infr. taxa) of phytoplankton, 178 species (194 infr. taxa.) of phytobenthos, and 20 species (21 infr. taxa) of periphyton were recorded.

*Keywords* : *Cyanoprokaryota*, benthos, plankton, periphyton, different water bodies, Iran.

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*p* . . . . . *p* . – . : . , 1953. –  
652 . – ( *p* *p* *p* . . . . . 2.)  
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( ) // . . . – 2009 . – **35**, 3. –  
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