

Таблица 3. Водоросли в перифитоне исследованных рек

Таксоны	Реки
Отдел Raphidophyta	
<i>Gonyostomum semen</i> (Ehrenberg) Diesing 1866	1*
Отдел Цианопрокaryota	
<i>Calothrix parietina</i> Thuret ex Bornet et Flahault 1886	1, 8
<i>Capsosira brebessonii</i> Kützing ex Bornet et Flahault 1886	1, 2, 4, 5
<i>Chamaesiphon rostafinskii</i> Hansgirg 1887	8
<i>Chroococcus minutus</i> (Kützing) Nageli 1849	1, 8, 9
<i>Chroococcus turgidus</i> (Kützing) Nageli 1849	5
<i>Dichothrix gypsophila</i> (Kützing) Bornet et Flahault 1886	1, 5, 8, 9
<i>Dolichospermum solitarium</i> (Klebahn) Waecklin et al. 2009	7
<i>Gloeocapsa kuetzingiana</i> Nageli 1849	9
<i>Gloeotrichia echinulata</i> (J. S. Smith et Sowerby) P. Richter 1894	6
<i>Hapalosiphon pumilus</i> Kützing ex Bornet et Flahault 1886	2, 8
<i>Merismopedia. glauca</i> (Ehrenberg) Kützing 1845	11
<i>Microcystis aeruginosa</i> (Kützing) Kützing 1846	1, 4, 5, 8, 9
<i>Nodularia spumigena</i> Mertens ex Bornet et Flahault 1888	2
<i>Nostoc coeruleum</i> Lyngbye ex Bornet et Flahault 1888	8, 10
<i>Nostoc kihlmani</i> Lemmermann 1900.	5
<i>Oscillatoria irriguum</i> (Kützing ex Gomont) Anagnostidis et Komárek 1988	9
<i>Oscillatoria limosa</i> Agardh ex Gomont 1892	7
<i>Oscillatoria tenuis</i> Agardh ex Gomont 1892	9
<i>Planktothrix agardhii</i> (Gomont) Anagnostidis et Komárek 1988	8, 9
<i>Rivularia biasolettiana</i> Meneghini et Flahault 1886	8, 9
<i>Scytonema ocellatum</i> Lyngbye 1887	2, 1
<i>Stigonema mamillosum</i> (Lyngbye) Agardh ex Bornet et Flahault 1886	1 – 3, 7, 8
<i>Tolypothrix elenkinii</i> Hollerbach 1923	5
<i>Tolypothrix saviczii</i> Kossinsk 1928	1, 8, 9
<i>Tolypothrix tenuis</i> Kützing ex Bornet et Flahault 1887	1, 2, 4, 8
Отдел Dinophyta	
<i>Peridinium cinctum</i> (O. F. Müller) Ehrenberg 1832	8, 9
Отдел Chrysophyta	
<i>Dinobryon divergens</i> O. E. Imhof 1887	2, 8
Отдел Bacillariophyta	
<i>Achnanthes helvetica</i> (Hustedt) Lange-Bertalot 1889	8
<i>Achnanthes linearis</i> (W. Smith) Grunow 1880	1, 2
<i>Achnanthes minutissima</i> Kützing 1833	1, 2, 8, 9
<i>Achnanthes delicatula</i> (Kützing) Grunow 1880 var. <i>delicatula</i>	8
<i>Achnanthes delicatula</i> var. <i>engelbrechtii</i> (Cholnoky) Lange-Bertalot 1991	9
<i>Achnanthes flexella</i> (Kützing) Brun 1880	9
<i>Achnanthes lacus-vulcani</i> Lange-Bertalot et Krammer 1889	8
<i>Achnanthes nodosa</i> Cleve 1990	9
<i>Achnanthes sacculus</i> J.R. Carter	9
<i>Achnanthes</i> sp.1	8
<i>Amphora</i> sp.	8
<i>Amphora veneta</i> Kützing 1844	8

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Таксоны	Реки
<i>Anomoeoneis brachysira</i> (Brébisson ex Rabenhorst) Cleve 1895	8, 9
<i>Asterionella formosa</i> Hassall 1850	1, 3, 8
<i>Asterionella ralfsii</i> W. Smith 1856	1
<i>Aulacoseira lirata</i> (Ehrenberg) Ross 1986	4, 7
<i>Aulacoseira ambigua</i> (Grunow) Simonsen 1979	4, 5, 6, 7
<i>Aulacoseira distans</i> (Ehrenberg) Simonsen 1979	1, 3, 5, 8
<i>Aulacoseira islandica</i> (O. F. Müller) Simonsen 1979	1, 2, 4, 8, 9
<i>Aulacoseira italica</i> (Ehrenberg) Simonsen 1979	1–3, 8, 9
<i>Aulacoseira subarctica</i> (O. F. Müller) Haworth 1988	1, 2, 8, 9
<i>Aulacoseira subborealis</i> (G. Nygaard) Denys, Muylaert et Krammer	9
<i>Aulacoseira tethera</i> Haworth 1988	1
<i>Aulacoseira. valida</i> (Grunow) Krammer 1990	8
<i>Brebissonia</i> sp.	9
<i>Caloneis</i> sp.	8
<i>Caloneis amphisbaena</i> (Bory) Cleve 1894	8
<i>Cocconeis placentula</i> Ehrenberg 1838	5, 7, 9
<i>Cocconeis scutellum</i> Ehrenberg 1838	5
<i>Cocconeis stauroneiformis</i> (W. Smith) H. Okuno 1957	8
<i>Cyclostephanos invisitatus</i> (Hohn & Hellermann) Theriot, Stoermer & Håkasson 1988	9
<i>Cyclotella stelligera</i> Cleve et Grunow 1882	9
<i>Cyclotella striata</i> (Kützing) Grunow in Cleve & Grunow 1880	8
<i>Cyclotella meneghiniana</i> Kützing 1844	8
<i>Cyclotella radiosa</i> (Grunow) Lemmermann 1900	9
<i>Cyclotella rossii</i> Håkansson 1990	9
<i>Cyclotella scotica</i> Kützing 1844	2
<i>Cymbella aequalis</i> W. Smith in Greville 1855	2
<i>Cymbella affinis</i> Kützing 1844	1–3, 6–9
<i>Cymbella cesatii</i> (Rabenhorst) Grunow 1881	6, 8, 9
<i>Cymbella cistula</i> (Ehrenberg) Kirchner 1878	1, 6, 8, 9
<i>Cymbella delicatula</i> Kützing 1949	9
<i>Cymbella elginensis</i> Krammer 1981	2, 6, 9
<i>Cymbella gracilis</i> (Ehrenberg 1843) Kützing 1844	1, 8, 9
<i>Cymbella helvetica</i> Kützing 1844	9
<i>Cymbella prostrata</i> (Berkeley) Cleve 1894	2
<i>Cymbella proxima</i> Reimer 1975	8
<i>Cymbella silesiaca</i> Bleisch in Rabenhorst 1864	1–3, 8, 9, 11
<i>Diatoma tenuis</i> Aghard 1812	1
<i>Didymosphenia geminata</i> (Lyngbye) M. Schmidt. 1899	6, 8, 9
<i>Diploneis interrupta</i> (Kützing) Cleve 1894	3
<i>Diploneis ovalis</i> (Hilse) Cleve 1891	5
<i>Diploneis pseudovalis</i> Hustedt 1930	2
<i>Diploneis smithii</i> (Brébisson) Cleve 1894	5, 7
<i>Epithemia adnata</i> (Kützing) Brébisson 1838	2, 9
<i>Eucoconeis minuta</i> (Cleve) Meister 1912	9
<i>Eunotia arcus</i> Ehrenberg 1837	4, 5, 8
<i>Eunotia bilunaris</i> (Ehrenberg) Mills 1934	1, 2, 4, 8–10
<i>Eunotia bilunaris</i> var. <i>mucophila</i> Lange-Bertalot et Nörpel 1991	2
<i>Eunotia diodon</i> Ehrenberg 1837	8

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<i>Eunotia faba</i> Ehrenberg 1838	8
<i>Eunotia fallax</i> var. <i>groenlandica</i> (Grunow) Lange-Bertalot et Nörpel 1991	2, 8
<i>Eunotia hemicyclus</i> (Ehrenberg) Ralfs 1861	2, 8
<i>Eunotia hexaplyphis</i> Ehrenberg 1854	4
<i>Eunotia incisa</i> Gregory 1854	1, 2
<i>Eunotia parallela</i> Ehrenberg 1843	8
<i>Eunotia pectinalis</i> (Kützing) Ehrenberg 1864	1–5, 8–10
<i>Eunotia praerupta</i> Ehrenberg 1843	1–3, 8, 9
<i>Eunotia serra</i> var. <i>diadema</i> (Ehrenberg) Patrick 1958	2, 4, 8
<i>Eunotia siberica</i> Cleve 1880	8
<i>Eunotia</i> sp. 1	8
<i>Eunotia</i> sp. 2	8
<i>Eunotia sudetica</i> O. F. Müller 1898	1–5
<i>Eunotia triodon</i> Ehrenberg 1837	8
<i>Fragilaria pulchella</i> (Ralfs ex Kützing) Lange-Bertalot 1980	8
<i>Fragilaria arcus</i> (Ehrenberg) Cleve 1898	2, 9
<i>Fragilaria berolinensis</i> (Lemmermann) Lange-Bertalot 1931	3
<i>Fragilaria brevistriata</i> Grunow 1885	2
<i>Fragilaria capucina</i> Desmazieres 1925 var. <i>capucina</i>	1, 2, 8
<i>Fragilaria capucina</i> var. <i>rumpens</i> (Kützing) Lange-Bertalot 1980	8
<i>Fragilaria construens</i> (Ehrenberg) Grunow 1868	2
<i>Fragilaria construens</i> f. <i>binodis</i> (Ehrenberg) Hustedt 1957	1
<i>Fragilaria crotonensis</i> Kitton 1869	2, 9
<i>Fragilaria elliptica</i> Schumann 1867	9
<i>Fragilaria exiqua</i> Grunow 1768	8
<i>Fragilaria nanana</i> Lange-Bertalot 1991	1
<i>Fragilaria ulna</i> (Nitzsch) Lange-Bertalot 1980	1, 2, 5, 6, 8, 9
<i>Fragilaria virescens</i> Ralfs 1843	1, 8, 9
<i>Frustulia rhomboides</i> (Ehrenberg) De Toni 1891 var. <i>rhomboides</i>	1–5, 7, 8–11
<i>Frustulia rhomboides</i> var. <i>saxonica</i> (Rabenhorst) De Toni 1891	1, 8
<i>Frustulia</i> sp.	9
<i>Gomphonema acuminatum</i> Ehrenberg 1832	1, 2, 6, 8, 9
<i>Gomphonema angustatum</i> (Kützing) Rabenhorst 1864	2, 8
<i>Gomphonema clavatum</i> Ehrenberg 1832	8, 9
<i>Gomphonema parvulum</i> (Kützing) Kützing 1849	1, 8, 9
<i>Gomphonema truncatum</i> Ehrenberg 1832	1, 9, 10
<i>Grammatophora</i> sp.	2
<i>Melosira lineata</i> (Dillwyn) Agardh 1824	4, 7
<i>Melosira nummuloides</i> (Dillwyn) Agardh	5, 8
<i>Melosira sulcata</i> (Ehrenberg) Kützing 1844	2, 9
<i>Melosira varians</i> Agardh 1827	2, 4, 9
<i>Meridion circulare</i> (Greville) Agardh 1831	11
<i>Meridion circulare</i> var. <i>constrictum</i> (Ralfs) Van Heurck 1880	2
<i>Navicula bottnica</i> Grunow 1879	9
<i>Navicula caoitata</i> var. <i>hungarica</i> (Grunow) Ross 1947	8, 9
<i>Navicula cuspidata</i> (Kützing) Kützing 1844	2, 8, 9
<i>Navicula dictasubtulissima</i> (Cleve) Lange-Bertalot et Metzeltin	8

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Таксоны	Реки
<i>Navicula halophila</i> (Grunow) Cleve 1894	2
<i>Navicula laevis</i> Kützing 1844	8
<i>Navicula mutica</i> Kützing 1844	1
<i>Navicula placentula</i> (Ehrenberg) Kützing 1844	7
<i>Navicula radiosa</i> Kützing 1844	8, 9
<i>Navicula reinhardtii</i> Grunow 1877	8
<i>Navicula rhynchocephala</i> Kützing 1844	9
<i>Navicula</i> sp. 1	2
<i>Navicula tripunctata</i> (O. F. Müller) Bory 1822.	8, 9
<i>Navicula trivialis</i> Lange-Bertalot 1980	1, 3, 8
<i>Nitzschia acuminata</i> (W. Smith) Grunow 1878	4
<i>Nitzschia littoralis</i> Grunow 1957	2
<i>Nitzschia palea</i> (Kützing) W. Smith 1856	3, 8
<i>Nitzschia</i> sp.	8
<i>Nitzschia tryblionella</i> Hantzsch 1860	2
<i>Pinnularia bogotensis</i> (Grunow) Cleve 1895	1, 3, 8
<i>Pinnularia gibba</i> var. <i>linearis</i> Hustedt 1930	8
<i>Pinnularia interrupta</i> W. Smith 1853 var. <i>interrupta</i>	8, 9
<i>Pinnularia interrupta</i> f. <i>biceps</i> (W. Gregory) Cleve 1895	2, 9
<i>Pinnularia lagerstedtii</i> (Cleve) Cleve-Euler 1934	8
<i>Pinnularia major</i> (Kützing) Rabenhorst 1853	1–3, 8
<i>Pinnularia microstauron</i> (Ehrenberg) Cleve 1891 var. <i>microstauron</i>	9
<i>Pinnularia microstauron</i> var. <i>brebissonii</i> (Kützing) Mayer 1912	1, 8
<i>Pinnularia nobilis</i> (Ehrenberg) Ehrenberg 1843	1
<i>Pinnularia</i> sp.	2
<i>Pinnularia subgibba</i> Krammer 1992	8
<i>Pinnularia viridis</i> (Nitzsch) Ehrenberg 1834	1–4, 11
<i>Rhopalodia gibba</i> (Ehrenberg) O. F. Müller 1895	1, 8
<i>Rhopalodia gibba</i> var. <i>minuta</i> Krammer 1987	1
<i>Stauroneis anceps</i> Ehrenberg 1843	8
<i>Stauroneis legumen</i> (Ehrenberg) Kützing 1844	8
<i>Stauroneis phoenicenteron</i> (Nitzsch) Ehrenberg 1843	1
<i>Stenopterobia curvula</i> (W. Smith) Krammer 1987	2, 8
<i>Stephanodiscus hantzschii</i> Grunow in Cleve & Grunow 1880	1, 9
<i>Stephanodiscus alpinus</i> Hustedt in Huber-Pestalozzi 1942	9
<i>Surirella biseriata</i> Brébisson 1838	2, 7
<i>Surirella. elegans</i> Ehrenberg 1843	1, 2, 8
<i>Tabellaria flocculosa</i> (Roth) Kützing 1844	1–11
<i>Tabellaria binalis</i> (Ehrenberg) Grunow 1881	1
<i>Tabellaria fenestrata</i> (Lyngbye) Kützing 1844	1–9, 11
<i>Tetracyclus glans</i> (Ehrenberg) Mills 1935	1
Отдел Chlorophyta	
<i>Bambusina brebissonii</i> Kützing 1849	2, 8
<i>Bulbochaete</i> sp.	1–3, 6–9, 11
<i>Chaetophora elegans</i> (Roth) C. Agardh 1812	8
<i>Cladophora glomerata</i> (Linnaeus) Kützing 1843	4, 5
<i>Closterium jenneri</i> Ralfs 1848	5
<i>Closterium kuetzingii</i> Brébisson 1856	8

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Таксоны	Реки
<i>Closterium leibleinii</i> Kützing ex Ralfs 1848	4
<i>Closterium cynthia</i> De Notaris 1867	1, 3, 8
<i>Closterium moniliferum</i> Ehrenberg ex Ralfs 1848	8, 9
<i>Closterium rostratum</i> Ehrenberg ex Ralfs 1848	2, 8
<i>Cosmarium margaritiferrum</i> Meneghini ex Ralfs 1848	2, 3, 8, 9
<i>Cosmarium undulatum</i> Corda ex Ralfs 1848	1, 8
<i>Cosmarium botritys</i> Meneghini ex Ralfs 1848	1, 2, 4, 8
<i>Cosmarium brebissonii</i> Meneghini ex Ralfs 1848	9
<i>Cosmarium formosulum</i> Hoff in Nordstedt 1888	8, 9
<i>Cosmarium humile</i> Nordstedt ex De Toni 1889	4, 8, 9
<i>Cosmarium pachydermum</i> P. Lundell 1871	1, 3, 5, 8
<i>Cosmarium punctulatum</i> Brébisson 1856	8, 9
<i>Desmidium swartzii</i> C. Agardh ex Ralfs 1848	9
<i>Draparnaldia glomerata</i> (Vaucher) C. Agardh 1812	1, 8
<i>Euastrum bidentatum</i> Nägeli 1849	2
<i>Euastrum pulchellum</i> Brébisson 1856	1–3, 8
<i>Euastrum verrucosum</i> Ehrenberg ex Ralfs 1848	2
<i>Hyalotheca mucosa</i> Ralfs 1848	9
<i>Hydrodictyon reticulatum</i> (Linnaeus) Lagerh 1883	8
<i>Microspora amoena</i> (Kützing) Rabenhorst 1868	1, 2, 5, 8, 11
<i>Microspora pachyderma</i> (Wille) Lagerheim 1887	1
<i>Microspora tenerrima</i> (Kützing) Gay 1886	4, 5, 7
<i>Mougeotia</i> sp.	1, 2, 6, 8, 9, 11
<i>Oedogonium</i> sp.	1, 2, 5, 8, 9
<i>Palmodiction viride</i> Kützing 1845	5, 9
<i>Pediastrum borianum</i> (Turpin) Meneghini 1840	8
<i>Percursaria percursa</i> (C. Agardh) Rosenvinge 1893	4
<i>Pleurotaenium minutum</i> var. <i>elongatum</i> (West) Cedergrén 1932	8
<i>Scenedesmus costatus</i> Schmidle 1895	1
<i>Spirogyra</i> sp.	2, 8, 9
<i>Spondylosium planum</i> (Wolle) W. West & G.S. West 1912	8, 9
<i>Staurostrum gracile</i> Ralfs ex Ralfs 1848	8
<i>Staurostrum paradoxum</i> Meyen ex Ralfs 1848	2
<i>Ulothrix tenuissima</i> Kützing 1833	9
<i>Ulothrix zonata</i> (F. Weber & Mohr) Kützing 1843	5
<i>Xanthidium fasciculatum</i> Ehrenberg ex Ralfs 1848	8
<i>Zygnema</i> sp.	1–3, 8–9
Отдел Rhodophyta	
<i>Audouinella chalybea</i> (A. Roth) Bory 1823	9
<i>Batrachospermum gelatinosum</i> (Linnaeus) De Candolle 1801	2 – 4, 8, 9, 11
<i>Batrachospermum turfosum</i> Bory 1808	1, 2, 7
<i>Lemanea fluviatilis</i> (Linnaeus) C. Agardh 1811	1
<i>Sirodotia suecica</i> Kylin 1912	8

Примечание: 1* – номера соответствуют названиям рек в табл. 1 и 2.