

Table S1. A list of the taxa observed from the carapace of *C. caretta* between 2011-2014.

Cyclotella meneghiniana Kützing 1844
Pantocsekiella ocellata (Pantocsek) K.T. Kiss & Ács 2016
Melosira moniliformis (O. F. Müller) Agardh 1824
Hyalodiscus scoticus (Kützing) Grunow 1879
Paralia cf. sulcata (Ehrenberg) Cleve 1873
Lindavia balatonis (Pantocsek) Nakov *et al.* 2015
Odontella aurita Agardh 1832
Odontella rostrata (Hustedt) Simonsen 1987
Dimeregramma minus (Gregory) Ralfs 1861
Dimeregramma minus var. nanum (Gregory) Van Heurck 1896
Dimeregramma sp.
Plagiogramma cf. pulchellum var. pygmaeum (Greville) H. Peragallo & M. Peragallo 1901
Brockmaniella brockmannii (Hustedt) Hasle, Stosch & Syvertsen 1983
Neohuttonia reichardtii (Grunow) Hustedt 1898
Plagiogramma tenuissimum Hustedt 1956
Anaulus balticus Simonsen 1959
Cymatosira belgica Grunow 1881
Cymatosira lorenziana Grunow 1862
Diatoma tenuis Agardh 1812
Fragilaria bronkei A. Witkowski, H. Lange-Bertalot & D. Metzeltin 2000
Fragilaria hyalina (Kützing) Grunow 1862
Hendeyella dubia (Grunow) Chunlian Li, Witkowski & Ashworth 2016
Hyalosynedra hyalina (Grunow) I. Álvarez-Blanco & S. Blanco 2014
Hyalosynedra cf. sublaevigata Blanco & Blanco 2014
Hyalosynedra sp.
Neosynedra provincialis (Grunow) Williams & Round 1986
Opephora burchardtia Witkowski, Metzeltin & Lange-Bertalot 1998
Opephora cf. guenter-grassii (Witkowski & Lange-Bertalot) Sabbe & Vyvermann 1995
Opephora minuta (Cleve-Euler) Witkowski, Lange-Bertalot & Metzeltin 2000
Opephora marina (Gregory) Petit 1888
Opephora mutabilis (Grunow) Sabbe & Vyverman 1995
Opephora pacifica (Grunow) Petit 1888

Tabularia fasciculata (Agardh) Williams & Round 1986
Tabularia tabulata (Agardh) Snoeijs 1992
Trachysphenia australis var. *australis* Petit 1877
Trachysphenia australis var. *rostellata* Hustedt 1955
Ulnaria ulna (Nitzsch) Compère 2001
Pseudostaurosiroopsis geocollegarum (Witkowski) E. A. Morales 2002
Staurosira sp.
Licmophora cf. *hyalina* (Kützing) Grunow 1867
Licmophora proboscidea Mereschkowsky 1902
Licmophora spp.
Psammodiscus nitidus (Gregory) Round & Mann 1980
Delphineis australis (P. Petit) Watanabe *et al.* 2013
Delphineis sp.
Diplomenora cocconeiformis (Schmidt) Blazé 1984
Meloneis mimallis I.Louvrou, D.B.Danielidis & A.Economou-Amilli 2013
Meloneis sp.
Thalassionema sp.
Grammatophora angulosa Ehrenberg 1840
Grammatophora angulosa var. *mediterranea* Grunow 1881
Grammatophora ocenica Ehrenberg 1840
Striatella unipunctata (Lyngbye) Agardh 1832
Achnanthes brevipes var. *brevipes* Agardh 1824
Achnanthes brevipes var. *intermedia* (Kützing) Cleve 1895
Achnanthes fimbriata (Grunow) Ross 1963
Achnanthes fogedii Håkansson 1978
Achnanthes elongata Majewska & Van de Vijver 2017
Achnanthes groenlandica var. *phinneyi* McIntire & Reimer 1974
Achnanthes parvula Kützing 1844
Achnanthes cf. *pseudogroenlandica* Hendey 1964
Achnanthes squaliformis Majewska & Van de Vijver 2017
Amphicocconeis disculoides (Hustedt) M. De Stefano & D. Marino 2002
Amphicocconeis sp.
Anorthoneis sp.

Cocconeopsis cf. regularis (Hustedt) Witkowski, Lange-Bertalot & Metzeltin 2000

***Cocconeopsis* spp.**

Cocconeis britannica Naegeli 1849

Cocconeis cf. distans Gregory 1855

Cocconeis clandestina A. Schmidt 1894

Cocconeis krammeri Lange-Bertalot & Metzeltin 1996

Cocconeis latecostata Hustedt 1955

Cocconeis peltoides Hustedt 1939

Cocconeis pinnata W. Gregory & Greville 1859

Cocconeis placentula Ehrenberg 1838

Cocconeis scutellum var. *scutellum* Ehrenberg 1838

***Cocconeis* spp.**

***Astartiella* sp.**

Karayevia amoena (Hustedt) Bukhtiyarova 2006

Karayevia submarina (Hustedt) Bukhtiyarova 2006

Planothidium cf. campechianum (Hustedt) A. Witkowski, H. Lange-Bertalot & D. Metzeltin 2000

Planothidium delicatulum (Kützing) Round & Bukhtiyarova 1996

Planothidium depertidum (Giffen) A. Witkowski, H. Lange-Bertalot & D. Metzeltin 2000

Planothidium lanceolatum (Brébisson & Kützing) Lange-Bertalot 1999

Planothidium lilljeborgei (Grunow) Witkowski, Lange-Bertalot & Metzeltin 2000

***Chelonicola* spp.**

Rhoicosphenia abbreviata (Agardh) Lange-Bertalot 1980

Rhoicosphenia cf. adriatica Caput Mihalic & Levkov 2010

***Tripterion* spp.**

Dickieia cf. ulvaceae Berkeley 1844

***Dickieia* spp.**

Cymbella excisa Kützing 1844

Cymbella exica var. *procera* Krammer 2002

Cymbella excisisiformis Krammer 2002

Encyonema minutum (Hilse) D.G. Mann 1990

Navicymbula pusilla var. *lata* K. Krammer 2003

Lyrella abrupta (Gregory) Mann 1990

Lyrella amphoroides D.G. Mann 1997

Lyrella hennedyi (W.Smith) Stickle & D.G.Mann 1990
Lyrella lyra (Ehrenberg) Karajeva 1978
Navicula (Lyrella) lyra var. intermedia Peragallo & Peragallo 1897
Lyrella majuscula (Hustedt) Witkowski 1998
Navicula (Petroneis) humerosa var. arabica H. Peragallo & M. Peragallo 1898
Petroneis marina (Ralfs) Mann 1990
Mastogloia adriatica Voigt 1963
Mastogloia angusta Hustedt 1933
Mastogloia binotata (Grunow) Cleve 1895
Mastogloia biocellata (Grunow) Novarino & Muftah 1991
Mastogloia corsicana (Grunow) H. Peragallo & M. Peragallo 1897
Mastogloia crucicula (Grunow) Cleve 1895
Mastogloia crucicula var. alternans Zanon 1948
Mastogloia cuneata (Meister) Simonsen 1990
Mastogloia decipiens Hustedt 1933
Mastogloia decussata Grunow 1892
Mastogloia exilis Hustedt 1933
Mastogloia lanceolata Thwaites & W. Smith 1856
Mastogloia ovalis Schmidt 1893
Mastogloia cf. pumila Cleve 1895
Mastogloia pusilla var. pusilla Grunow 1878
Mastogloia spp.
Tetramphora cf. lineolata (Ehrenberg) Mereschkowsky 1902
Berkeleya fennica Juhlin-Dannfelt 1882
Climaconeis spp.
Parlibellus berkeleyi (Kützing) Cox 1988
Parlibellus cf. calvus Witkowski, Metzeltin & Lange-Bertalot 2000
Luticola nivalis (Ehrenberg) D.G. Mann 1990
Cistula lorenziana (Grunow) Cleve 1894
Halamphora acutiuscula (Kützing) Levkov 2009
Halamphora luciae (Cholknoy) Levkov 2009
Halamphora subholsatica (Krammer) Levkov 2009
Halamphora tenerrima (Aleem & Hustedt) Levkov 2009

Halamphora turgida (Gregory) Levkov 2009
Halamphora subangularis (Hustedt) Levkov 2009
Halamphora wisei (M.M. Salah) I. Álvarez-Blanco & S. Blanco 2014
Halamphora spp.
Brachysira aponina Kützing 1836
Brachysira estonarium A. Witkowski, H. Lange-Bertalot & D. Metzeltin 2000
Brachysira sp.
Olifantiella seblae Kaleli, Krzywda, Witkowski & Solak sp. nov.
Biremis lucens (Hustedt) Sabbe, Witkowski & Vyverman 1995
Biremis sp.
Fallacia cassubiae Witkowski 1991
Fallacia florinae (Møller) Witkowski 1993
Fallacia forcipata (Greville) Stickle & Mann 1990
Fallacia cf. *litoricola* (Hustedt) D.G. Mann 1990
Fallacia nyella (Hustedt) D.G. Mann 1990
Fallacia oculiformis (Hustedt) D.G. Mann 1990
Fallacia schaeferae (Hustedt) D.G. Mann 1990
Fallacia cf. *schoemania* (Foged) Witkowski, Lange-Bertalot & Metzeltin 2000
Fallacia cf. *spatiata* (Østrup) Witkowski 2000
Fallacia subforcipata (Hustedt) D.G. Mann 1990
Fallacia spp.
Diploneis aestuari Hustedt 1939
Diploneis bombus (Ehrenberg) Ehrenberg 1853
Diploneis caffra (Giffen) A. Witkowski, H. Lange-Bertalot & D. Metzeltin 2000
Diploneis coffaeiformis (Schmidt) Cleve 1894
Diploneis crabro (Ehrenberg) Ehrenberg 1854
Diploneis cf. *mirabilis* König 1959
Diploneis papula (A. Schmidt) Cleve 1894
Diploneis cf. *parca* (A. Schmidt) Boyer 1927
Diploneis incurvata var. *dubia* Hustedt 1933
Diploneis smithii (Brébisson) Cleve 1894
Diploneis subcincta (A. Schmidt) Cleve 1894
Diploneis suborbicularis var. *constricta* Hustedt 1937

Diploneis vacillans (A. Schmidt) Cleve 1894

Diploneis weissflogi (Schmidt) Cleve 1894

Diploneis spp.

Fogedia finmarchia (Cleve & Grunow) Witkowski, Metzeltin & Lange-Bertalot 1997

Fogedia giffeniana (Foged) Witkowski, Lange-Bertalot, Metzeltin & Bafana 1997

Fogedia sp.

Caloneis aemula (Grunow & A. Schmidt) Cleve 1894

Caloneis cf. *excentrica* (Grunow) Boyer 1927

Caloneis liber (W. Smith) Cleve 1894

Chamaepinnularia clamans (Hustedt) A. Witkowski, H. Lange-Bertalot & D. Metzeltin 2000

Hippodonta spp.

Navicula arenaria var. *rostellata* Lange-Bertalot 1985

Navicula athenae Witkowski, Lange-Bertalot & Metzeltin 2000

Navicula cf. *borowkae* Witkowski, Lange-Bertalot & Metzeltin 2000

Navicula duerrenbergiana Hustedt 1934

Navicula flantica Grunow 1860

Navicula normaloides Cholnoky 1968

Navicula cf. *palpebralis* Brébisson & W. Smith 1853

Navicula palpebralis var. *angulosa* (Gregory) Van Heurck 1885

Navicula palpebralis cf. var. *minor* Grunow 1880

Navicula palpebralis cf. var. *undulata* Peragallo & Peragallo 1897

Navicula pavillardii Hustedt 1939

Haslea spicula (Hickie) Bukhtiyarova 1995

Hippodonta subtilissima Lange-Bertalot, Metzeltin & Witkowski 1996

Navicula arenaria var. *rostellata* Lange-Bertalot 1985

Navicula athenae Witkowski, Lange-Bertalot & Metzeltin 2000

Navicula cf. *borowkae* Witkowski, Lange-Bertalot & Metzeltin 2000

Navicula duerrenbergiana Hustedt 1934

Navicula flantica Grunow 1860

Navicula normaloides Cholnoky 1968

Navicula cf. *palpebralis* Brébisson & W. Smith 1853

Navicula palpebralis var. *angulosa* (Gregory) Van Heurck 1885

Navicula palpebralis cf. var. *minor* Grunow 1880

Navicula palpebralis cf. **var. undulata** Peragallo & Peragallo 1897
Navicula pavillardii Hustedt 1939
Navicula perminuta Grunow 1880
Navicula cf. *ponticula* Giffen 1970
Navicula ramosissima (C. Agardh) Cleve 1895
Navicula reichardtiana Lange-Bertalot 1989
Navicula salinicola Hustedt 1939
Navicula subagnita Proschkina-Lavrenko 1963
Navicula tripunctata (O.F. Müller) Bory 1822
Navicula cf. *vekhovii* Lange-Bertalot & Genkal 1999
Navicula viminoides Giffen 1975
Navicula spp.
Seminavis robusta D.B. Danielidis & D.G. Mann 2002
Seminavis strigosa (Hustedt) Danielidis & Economou-Amilli 2003
Pinnunavis yarrensis (Grunow) Okuno 1975
Pinnularia clavicolus (Gregory) Rabenhorst 1864
Gyrosigma balticum (Ehrenberg) Rabenhorst 1853
Gyrosigma eximium (Thwaites) Boyer 1927
Gyrosigma wansbeckii (Donkin) Cleve 1894
Pleurosigma elongatum W. Smith 1852
Pleurosigma strigosum W. Smith 1852
Toxonidea insignis Donkin 1858
Plagiotropis cf. *lepidoptera* (Gregory) Kuntze 1898
Amphora arcuata A. Schmidt 1875
Amphora bigibba var. *interrupta* (Grunow) Cleve 1895
Amphora cymbamphora Cholnoky 1960
Amphora cf. *egregia* Ehrenberg 1861
Amphora fluminensis Grunow 1863
Amphora graeffeana Hendey 1973
Amphora hyalina Kützing 1844
Amphora marina W. Smith 1857
Amphora montgomeryi A.H. Wachnicka & E.E. Gaiser 2007
Amphora pediculus (Kützing) Grunow 1875

Amphora polita Krasske 1939
Amphora proteus var. *contigua* Cleve 1895
Amphora proteus var. *oculata* H. Peragallo & M. Peragallo 1898
Amphora spp.
Denticula subtilis Grunow 1862
Denticula sp.
Nitzschia aequorea Hustedt 1939
Nitzschia amabilis H. Suzuki 2010
Nitzschia cf. *plioveterana* H. Lange-Bertalot 2000
Nitzschia cf. *distans* Gregory 1857
Nitzschia elegantula Grunow 1881
Nitzschia filiformis (W. Smith) Van Heurck 1896
Nitzschia frustulum (Kützing) Grunow 1880
Nitzschia grossestriata Hustedt 1955
Nitzschia inconspicua Grunow 1862
Nitzschia liebetruthii Rabenhorst 1864
Nitzschia lorenziana Grunow 1879
Nitzschia nana Grunow 1881
Nitzschia normannii Grunow 1881
Nitzschia pararostrata (Lange-Bertalot) Lange-Bertalot 2000
Nitzschia parvula W. Smith 1853
Nitzschia sigma (Kützing) W. Smith 1853
Nitzschia valdestriata Aleem & Hustedt 1951
Nitzschia volvendirostrata Ashworth, Dąbek & Witkowski 2016
Nitzschia spp.
Psammodisctyon mediterraneum (Hustedt) Mann 1990
Psammodictyon panduriforme var. *continua* Snoeijs 1998
Psammodictyon panduriforme var. *delicatulum* (Grunow) Poulin 1990
Nitzschia (*Psammodictyon*) *panduriforme* var. *minor* Grunow
Psammodictyon roridum (Giffen) Mann 1990
Psammodictyon rudum (Cholnoky) D.G Mann 1990
Tripterion spp.
Tryblionella apiculata Gregory 1857

Tryblionella compressa var. *compressa* (Bailey) Poulin 1990
Tryblionella compressa var. *elongata* (Grunow) Lange-Bertalot 1987
Tryblionella granulata (Grunow) D.G. Mann 1990
Tryblionella lanceola Grunow 1878
Tryblionella levidensis W. Smith 1856
Tryblionella navicularis (Brébisson) Ralfs 1861
Epithemia argus (Ehrenberg) Kützing 1844
Epithemia goeppertiana Hilse 1860
Epithemia smithii Carruthers 1864
Rhopalodia acuminata Krammer 1987
Rhopalodia musculus (Kützing) O. Müller 1900
Rhopalodia pacifica Krammer 1987
Entomoneis cf. *paludosa* (W. Smith) Reimer 1975
Petrodictyon gemma (Ehrenberg) Mann 1990
Surirella atomus Hustedt 1955
Surirella curvifacies Brun 1895
Surirella fastuosa (Ehrenberg) Ehrenberg 1843
Surirella striatula Turpin 1828

Table S2. SIMPER analysis of diatom taxa contributing (% cumulative = 90%) to similarities between epibiotic diatom assemblages from 2011.

Taxa					
	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
<i>Denticula subtilis</i> Grunow	1.41	2.17	1.2	18.54	18.54
<i>Fallacia subforcipata</i> (Hustedt) Mann	1.53	1.7	0.58	14.52	33.05
<i>Fallacia oculiformis</i> (Hustedt) Mann	1.57	1.47	0.58	12.57	45.63
<i>Halamphora tenerrima</i> (Aleem & Hustedt) Levkov	2.28	1.35	0.58	11.57	57.2
<i>Navicula</i> cf. <i>palpebralis</i> Brébisson & Smith	1.37	1	0.58	8.59	65.79
<i>Meloneis mimallis</i> Louvrou et al.	0.89	1	0.58	8.57	74.36
<i>Achnanthes fogedii</i> Håkansson	0.91	0.96	0.58	8.18	82.55
<i>Biremis lucens</i> (Hustedt) Sabbe et al.	1.06	0.93	0.58	7.95	90.5

Table S3. SIMPER analysis of diatom taxa contributing (% cumulative = 91%) to similarities between epibiotic diatom assemblages from 2012.

Taxa	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
<i>Nitzschia frustulum</i> (Kützing) Grunow	4.29	5.41	1.06	20.13	20.13
<i>Navicula perminuta</i> Grunow	2.17	2.66	1.12	9.90	30.03
<i>Nitzschia liebethuthii</i> Rabenhorst	1.71	2.44	1.09	9.09	39.12
<i>Tripterion</i> sp.2	1.99	2.13	0.83	7.93	47.05
<i>Halamphora tenerrima</i> (Aleem & Hustedt) Levkov	1.66	1.60	0.62	5.97	53.02
<i>Delphineis australis</i> (Petit) Watanabe et al.	1.37	1.49	0.94	5.54	58.56
<i>Navicula normaloides</i> Cholnoky	0.93	1.02	1.12	3.80	62.36
<i>Halamphora luciae</i> (Cholnoky) Levkov	1.47	0.94	0.54	3.50	65.86
<i>Cocconeis placentula</i> Ehrenberg	0.62	0.81	1.15	3.03	68.89
<i>Karayevia submarina</i> (Hustedt) Bukhtiyarova	0.55	0.81	1.15	3.03	71.92
<i>Tabularia fasciculata</i> (Agardh) Williams & Round	0.59	0.62	0.62	2.30	74.22
<i>Nitzschia</i> sp.20	0.62	0.55	0.58	2.06	76.28
<i>Nitzschia</i> sp.19	0.52	0.53	0.61	1.97	78.25
<i>Amphora marina</i> Smith	0.91	0.50	0.59	1.85	80.10
<i>Tryblionella granulata</i> (Grunow) Mann	0.95	0.49	0.60	1.84	81.93
<i>Diploneis bombus</i> (Ehrenberg) Ehrenberg	0.54	0.44	0.61	1.65	83.59
<i>Cocconeis</i> sp.19	0.44	0.44	0.62	1.65	85.24
<i>Brachysira estonarium</i> Witkowski et al.	0.71	0.44	0.62	1.64	86.88
<i>Tryblionella lanceola</i> Grunow	0.42	0.40	0.62	1.50	88.38
<i>Melosira moniliformis</i> (Müller) Agardh	0.58	0.39	0.62	1.45	89.82
<i>Tryblionella apiculata</i> Gregory	0.71	0.32	0.32	1.20	91.02

Table S4. SIMPER analysis of diatom taxa contributing (% cumulative = 90%) to similarities between epibiotic diatom assemblages from 2013.

Taxa	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
<i>Delphineis australis</i> (Petit) Watanabe et al.	2.25	2.57	0.75	17.88	17.88
<i>Grammatophora angulosa</i> Ehrenberg	1.61	1.53	0.55	10.64	28.52
<i>Navicula perminuta</i> Grunow	1.51	1.32	0.54	9.18	37.69
<i>Meloneis mimallis</i> Louvrou et al.	1.14	1.06	0.57	7.39	45.09
<i>Nitzschia frustulum</i> (Kützing) Grunow	1.31	0.84	0.46	5.82	50.91
<i>Delphineis</i> sp.1	0.97	0.7	0.49	4.85	55.76
<i>Diplomenora cocconeiformis</i> (Schmidt) Blazé	0.84	0.56	0.4	3.9	59.66
<i>Achnanthes elongata</i> Majewska & Van de Vijver	1.27	0.53	0.17	3.68	63.33
<i>Tryblionella granulata</i> (Grunow) Mann	0.87	0.38	0.42	2.63	65.96
<i>Nitzschia liebetruithii</i> Rabenhorst	0.76	0.35	0.33	2.41	68.37
<i>Cocconeis scutellum</i> Ehrenberg	0.66	0.28	0.29	1.95	70.32
<i>Olifantiella</i> sp.1	0.52	0.27	0.39	1.89	72.21
<i>Achnanthes squaliformis</i> Majewska & Van de Vijver	0.55	0.23	0.2	1.59	73.8
<i>Navicula</i> sp.54	0.66	0.22	0.34	1.55	75.35
<i>Nitzschia</i> sp.20	0.56	0.21	0.24	1.44	76.8
<i>Psammodictyon rudum</i> (Cholnoky) Mann	0.7	0.2	0.22	1.41	78.21
<i>Cocconeis placentula</i> Ehrenberg	0.43	0.18	0.32	1.27	79.48
<i>Navicula normaloides</i> Cholnoky	0.63	0.18	0.26	1.24	80.72
<i>Tripterion</i> sp.2	0.76	0.17	0.15	1.22	81.93
<i>Halamphora tenerima</i> (Aleem & Hustedt) Levkov	0.38	0.13	0.21	0.92	82.86
<i>Melosira moniliformis</i> (Müller) Agardh	0.44	0.12	0.28	0.86	83.72
<i>Diploneis bombus</i> (Ehrenberg) Ehrenberg	0.33	0.11	0.25	0.79	84.52
<i>Tryblionella lanceola</i> Grunow	0.33	0.11	0.29	0.75	85.27
<i>Paralia sulcata</i> (Ehrenberg) Cleve	0.28	0.11	0.28	0.75	86.02
<i>Amphora polita</i> Krasske	0.3	0.11	0.25	0.74	86.76
<i>Navicula</i> sp.55	0.42	0.1	0.23	0.7	87.46
<i>Achnanthes pseudogroenlandica</i> Hendey	0.31	0.09	0.18	0.63	88.1
<i>Cymatosira lorenziana</i> Grunow	0.32	0.09	0.22	0.61	88.7
<i>Amphora marina</i> Smith	0.26	0.06	0.22	0.45	89.15
<i>Mastogloia pusilla</i> var. <i>pusilla</i> Grunow	0.24	0.06	0.23	0.42	89.57
<i>Diploneis coffaeiformis</i> (Schmidt) Cleve	0.25	0.06	0.17	0.41	89.98
<i>Cocconeis</i> sp.8	0.3	0.06	0.13	0.41	90.39

Table S5. SIMPER analysis of diatom taxa contributing (% cumulative = 90%) to similarities between epibiotic diatom assemblages from 2014.

Taxa	Av.Abund	Av.Sim	Sim/SD	Contrib%	Cum.%
<i>Navicula perminuta</i> Grunow	3.03	3.69	6.51	9.73	9.73
<i>Nitzschia frustulum</i> (Kützing) Grunow	3.13	2.77	2.31	7.31	17.04
<i>Cocconeis placentula</i> Ehrenberg	2.17	2.43	2.03	6.41	23.45
<i>Navicula</i> sp.54	2.03	2.27	1.67	5.97	29.42
<i>Navicula</i> sp.55	1.92	2.01	2.41	5.29	34.71
<i>Nitzschia liebetruithii</i> Rabenhorst	1.48	1.68	2.5	4.41	39.12
<i>Melosira moniliformis</i> (Müller) Agardh	1.87	1.64	1.33	4.33	43.45
<i>Tryblionella granulata</i> (Grunow) Mann	1.31	1.51	2.46	3.98	47.43
<i>Seminavis strigosa</i> (Hustedt) Danielidis & Economou-Amilli	1.32	1.21	1.49	3.2	50.63
<i>Navicula</i> sp.52	1.35	1.05	1.67	2.77	53.4
<i>Tryblionella apiculata</i> Gregory	0.91	0.91	1.76	2.4	55.8
<i>Delphineis australis</i> (Petit) Watanabe et al.	1.65	0.85	0.72	2.24	58.04
<i>Olifantiella</i> sp.1	1.15	0.83	1.02	2.18	60.23
<i>Tabularia fasciculata</i> (Agardh) Williams & Round	1.54	0.78	0.98	2.04	62.27
<i>Diploneis</i> cf. <i>mirabilis</i> König	0.89	0.72	0.93	1.91	64.18
<i>Karayevia submarina</i> (Hustedt) Bukhtiyarova	0.81	0.72	1.04	1.9	66.07
<i>Grammatophora angulosa</i> Ehrenberg	0.85	0.71	1.06	1.87	67.94
<i>Achnanthes elongata</i> Majewska & Van de Vijver	0.88	0.65	0.96	1.7	69.64
<i>Nitzschia</i> sp.20	0.97	0.58	1.06	1.53	71.17
<i>Cocconeis scutellum</i> Ehrenberg	0.75	0.55	0.87	1.46	72.63
<i>Paralia sulcata</i> (Ehrenberg) Cleve	0.69	0.54	1.15	1.43	74.06
<i>Delphineis</i> sp.1	0.87	0.54	1.05	1.43	75.49
<i>Psammodyctyon panduriforme</i> var. <i>continua</i> Snoeijs	0.74	0.51	0.86	1.34	76.82
<i>Navicula normaloides</i> Cholnoky	0.7	0.48	0.83	1.26	78.09
<i>Diploneis bombus</i> Ehrenberg (Ehrenberg)	0.51	0.47	1.1	1.24	79.32
<i>Tripterion</i> sp.2	0.76	0.47	0.78	1.23	80.56
<i>Navicula pavillardii</i> Hustedt	0.68	0.46	1.02	1.22	81.77
<i>Amphora marina</i> Smith	0.67	0.43	0.99	1.13	82.9
<i>Psammodyctyon rudum</i> (Cholnoky) Mann	0.56	0.36	0.61	0.95	83.84
<i>Navicula salinicola</i> Hustedt	0.41	0.35	1.07	0.93	84.77
<i>Rhopalodia pacifica</i> Krammer	0.48	0.29	0.62	0.76	85.53
<i>Tryblionella lanceola</i> Grunow	0.67	0.27	0.48	0.71	86.25
<i>Meloneis mimallis</i> Louvrou et al.	0.79	0.27	0.46	0.71	86.96
<i>Tryblionella compressa</i> var. <i>elongata</i> (Grunow) Lange-Bertalot	0.75	0.27	0.46	0.71	87.67
<i>Amphora</i> sp.10	0.43	0.26	0.61	0.68	88.35
<i>Cymbella excisa</i> Kützing	0.42	0.24	0.61	0.64	88.98
<i>Halamphora acutiuscula</i> (Kützing) Levkov	0.36	0.23	0.6	0.61	89.6
<i>Diploneis coffaeiformis</i> (Schmidt) Cleve	0.42	0.2	0.62	0.53	90.13

Table S6. The ecological distribution of dominant taxa (1- Guiry & Guiry, 2019; 2- Kociolek et al. 2019, 3- Witkowski et al., 2000; M- Marine, B- Brackish & F- Freshwater).

Taxa	1	2	3	Taxa	1	2	3
<i>Achnanthes elongata</i> Majewska & Van de Vijver	M	-	-	<i>Navicula perminuta</i> Grunow	M,B	M,F	B
<i>Delphineis australis</i> (Petit) Watanabe et al.	M	M	M	<i>Navicula viminoides</i> Giffen	M,F	M,B,F	M,B
<i>Encyonema minutum</i> (Hilse) D.G.Mann	F	M,F	-	<i>Neosynedra provincialis</i> (Grunow) Williams & Round	M	F	M
<i>Fallacia cassubiae</i> Witkowski	-	-	B	<i>Nitzschia frustulum</i> (Kützing) Grunow	M,F	M,F	M,B
<i>Fallacia florinae</i> (Møller) Witkowski	M	M	M,B	<i>Nitzschia volvendirostrata</i> Ashworth et al.	M	M	-
<i>Grammatophora angulosa</i> Ehrenberg	M	M,F	M	<i>Olifantiella seblae</i> Kaleli et al.	-	-	-
<i>Halamphora tenerrima</i> (Aleem & Husted) Levkov	M,B	M	M	<i>Psammodictyon rudum</i> (Cholnoky) Mann	M	M	M
<i>Mastogloia crucicula</i> var. <i>alternans</i> Zanon	-	-	M	<i>Rhoicosphenia abbreviata</i> (Agardh) LangeBertalot	F	M	F,B
<i>Navicula palpebralis</i> var. <i>angulosa</i> (Gregory) Van Heurck	F	M,B	M				