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Methods, Table T1. Master species list with authorities.

Marine taxa	Brackish-marine taxa	Brackish taxa	Brackish-freshwater taxa	Freshwater taxa	Uncertain affinity
<i>Actinocyclus senarius</i> (Ehrenberg) Ehrenberg	<i>Achnanthes brevipes</i> var. <i>intermedia</i> (Kützing) Cleve	<i>Achnanthes lemmermannii</i> Hustedt	<i>Achnantheidium microcephalum</i> Kützing	<i>Achnanthes subatomides</i> (Hustedt) Lange-Bertalot and Archibald	<i>Cerataulus turgidus</i> (Ehrenberg) Ehrenberg
<i>Amphora crassa</i> Gregory	<i>Achnanthes longipes</i> Agardh	<i>Achnanthes leonardii</i> Witkowski and Lange-Bertalot	<i>Actinocyclus octonarius</i> var. <i>crassus</i> (W. Smith) Hendeý	<i>Actinocyclus normanii</i> fo. <i>subsalsus</i> (Juhlin-Dannfelt) Hustedt	
<i>Ardissonea fulgens</i> (Greville) Grunow	<i>Actinocyclus octonarius</i> Ehrenberg	<i>Amphora robusta</i> Gregory	<i>Actinocyclus octonarius</i> var. <i>tenellus</i> (Brébisson) Hendeý	<i>Amphora copulata</i> (Kützing) Schoeman and Archibald	
<i>Auliscus caelatus</i> Bailey	<i>Bacillaria socialis</i> (Gregory) Ralfs	<i>Amphora subholstatica</i> Krammer	<i>Amphora ovalis</i> (Kützing) Kützing	<i>Aneumastus tusculus</i> (Ehrenberg) D.G. Mann and A.J. Stickle	
<i>Caloneis elongata</i> (Grunow) Boyer	<i>Caloneis crassa</i> (Gregory) R. Ross	<i>Brachysira aponina</i> Kützing	<i>Amphora pediculus</i> (Kützing) Grunow ex A. Schmidt	<i>Aulacoseira alpigena</i> (Grunow) Krammer	
<i>Cocconeis costata</i> Gregory	<i>Chaetoceros</i> resting spores spp.	<i>Caloneis aemula</i> (A. Schmidt) Cleve	<i>Aneumastus minor</i> (Hustedt) Lange-Bertalot	<i>Aulacoseira ambigua</i> (Grunow) Simonsen	
<i>Dimeregramma minor</i> (Gregory) Ralfs	<i>Chaetoceros</i> spp. vegetative cells	<i>Caloneis amphibaena</i> (Bory) Cleve	<i>Campylodiscus bicostatus</i> W. Smith	<i>Aulacoseira granulata</i> (Ehrenberg) Simonsen	
<i>Diploneis coffaeiformis</i> (Schmidt) Cleve	<i>Cocconeis peltoides</i> Hustedt	<i>Chamaepinnularia witkowskii</i> (Lange-Bertalot and Metzeltin) Kulikovskiy and Lange-Bertalot	<i>Cavinula psuedoscutiformis</i> (Hustedt) Mann and Stickle in Round et al	<i>Aulacoseira subarctica</i> (O. Müller) Haworth	
<i>Diploneis decipiens</i> var. <i>parallela</i> A. Cleve	<i>Cocconeis speciosa</i> Gregory	<i>Cocconeis neothumensis</i> Krammer	<i>Cocconeis pediculus</i> Ehrenberg	<i>Auloacoseira islandica</i> (O. Müller) Simonsen	
<i>Diploneis subcincta</i> (A. Schmidt) Cleve	<i>Cocconeis stauroneiformis</i> (W. Smith) Okuno	<i>Cocconeis placentula</i> var. <i>euglypta</i> (Ehrenberg) Grunow	<i>Cocconeis placentula</i> Ehrenberg	<i>Brachysira vitrea</i> (Grunow) Ross	
<i>Eucampia zodiacus</i> Ehrenberg	<i>Fallacia pseudony</i> (Hustedt) D.G. Mann	<i>Cocconeis scutellum</i> Ehrenberg	<i>Ctenophora pulchella</i> (Ralfs ex Kützing) Williams and Round	<i>Caloneis schumanniana</i> (Grunow) Cleve	
<i>Fallacia litoricola</i> (Hustedt) D.G. Mann	<i>Gomphonemopsis exigua</i> (Kützing) L.K. Medlin	<i>Coccinodiscus asteromphalus</i> Ehrenberg	<i>Cyclotella meneghiniana</i> Kützing	<i>Caloneis</i> cf. <i>silicula</i> (Ehrenberg) Cleve	
<i>Fragilaria capensis</i> Grunow	<i>Grammatophora macilenta</i> W. Smith	<i>Coccinodiscus granii</i> Gough	<i>Cymatopleura elliptica</i> (Brébisson) W. Smith	<i>Cocconeis disculus</i> (Schumann) Cleve	
<i>Fragilariopsis oceanica</i> (Cleve) Hasle	<i>Grammatophora oceanica</i> Ehrenberg	<i>Cyclotella</i> cf. <i>caspia</i> Grunow	<i>Cymatopleura solea</i> var. <i>apiculata</i> (W. Smith) Ralfs	<i>Cocconeis neodiminuta</i> Krammer	
<i>Hyalodiscus scoticus</i> (Kützing) Grunow	<i>Hantzschia virgata</i> var. <i>gracilis</i> Hustedt in Schmidt	<i>Cyclotella choctawhatcheeana</i> Prasad	<i>Diatoma vulgare</i> de Saint-Vincent	<i>Cocconeis pseudothumensis</i> Reichard	
<i>Licmophora abbreviata</i> C. Agardh	<i>Mastogloia exigua</i> F.W. Lewis	<i>Cyclotella striata</i> (Kützing) Grunow	<i>Diploneis smithii</i> (Brébisson) Cleve	<i>Cyclotella atomus</i> Hustedt	
<i>Lyrella</i> cf. <i>spectabilis</i> (Gregory) D.G. Mann	<i>Petronis granulata</i> (Bailey) Mann	<i>Diatoma moniliformis</i> (Kützing) D.M. Williams	<i>Epithemia sorex</i> Kützing	<i>Cyclotella bodanica</i> var. <i>affinis</i> (Grunow) Cleve-Euler	
<i>Mastogloia</i> cf. <i>grunowii</i> A. Schmidt	<i>Petronis marina</i> (Ralfs) D.G. Mann	<i>Diploneis didyma</i> (Ehrenberg) Ehrenberg	<i>Epithemia turgida</i> (Ehrenberg) Kützing	<i>Cyclotella comensis</i> Grunow	
<i>Navicula arenaria</i> Donkin	<i>Rhabdonema arcuatum</i> (Lyngbye) Kützing	<i>Diploneis damblittensis</i> (Grunow) Cleve	<i>Epithemia turgida</i> var. <i>westermanni</i> (Ehrenberg) Grunow	<i>Cyclotella ocellata</i> Pantocsek	
<i>Navicula kariana</i> var. <i>frigida</i> (Grunow) Cleve	<i>Rhabdonema minutum</i> Kützing	<i>Diploneis interrupta</i> (Kützing) Cleve	<i>Fallacia balnearis</i> (Grunow) Witkowski	<i>Cyclotella radiosa</i> (Grunow) Lemmermann	
<i>Navicula ramosissima</i> (C. Agardh) Cleve	<i>Rhizosolenia hebetata</i> fo. <i>semispina</i> (Hensen) Gran	<i>Diploneis stroemii</i> Hustedt	<i>Fragilariopsis cylindrus</i> (Grunow) Krieger	<i>Cyclotella rossii</i> Håkansson	
<i>Nitzschia grossestriata</i> Hustedt	<i>Rhopalodia acuminata</i> Krammer	<i>Entomoneis pseudoduplex</i> Osada and Kobayasi	<i>Gomphonema olivaceum</i> (Hornemann) Brébisson	<i>Cyclotella schumannii</i> (Grunow) Håkansson	
<i>Nitzschia marginulata</i> Grunow	<i>Tabularia fasciculata</i> (C. Agardh) D.M. Williams and Round	<i>Epithemia adnata</i> (Kützing) Brébisson	<i>Gomphonema parvulum</i> Grunow	<i>Cyclotella stelligera</i> Cleve and Grunow	
<i>Nitzschia rorida</i> M.H. Giffen	<i>Tabularia waernii</i> Snoeij	<i>Fragilaria amicornum</i> Witkowski and Lange-Bertalot	<i>Cyrosigma acuminatum</i> (Kützing) Rabenhorst	<i>Cymbella affinis</i> Kützing	
<i>Nitzschia scabra</i> Cleve	<i>Thalassionema nitzschoides</i> (Grunow) Mereschkowsky	<i>Fragilaria gedanensis</i> Witkowski	<i>Mastogloia baltica</i> Grunow in van Huerck	<i>Cymbella angustata</i> (W. Smith) Cleve	
<i>Odontella aurita</i> (Lyngbye) C. Agardh	<i>Tryblionella coarctata</i> (Grunow) D.G. Mann	<i>Gomphonemopsis pseudexigua</i> (Simonsen) Medlin	<i>Mastogloia elliptica</i> (C. Agardh) Cleve	<i>Denticula tenuis</i> var. <i>crassula</i> (Nägeli) Hustedt	
<i>Odontella</i> cf. <i>sinensis</i> (Greville) Grunow	<i>Stauroneis</i> cf. <i>radissonii</i> (Poulin and Cardinal)	<i>Martyana schulzii</i> (Brockmann) Snoeij	<i>Mastogloia smithii</i> Thwaites ex W. Smith	<i>Diatoma tenuis</i> C.A. Agardh	
<i>Opephora marina</i> (Gregory) Petit		<i>Mastogloia lanceolata</i> Thwaites ex W. Smith	<i>Melosira lineata</i> (Dillwyn) Agardh	<i>Diploneis mauleri</i> (Brun) Cleve	
<i>Opephora minuta</i> (Cleve-Euler) Witkowski		<i>Mastogloia pusilla</i> Grunow	<i>Navicula capitata</i> Ehrenberg	<i>Diploneis parva</i> Cleve	
<i>Opephora pacifica</i> (Grunow) Petit		<i>Mastogloia smithii</i> var. <i>Amphicephala</i> Grunow	<i>Navicula capitata</i> var. <i>hungarica</i> (Grunow) R. Ross	<i>Ellerbeckia arenaria</i> (Moore) Crawford	
<i>Pinnularia</i> cf. <i>quadratarea</i> var. <i>subproducta</i> (Grunow) Cleve		<i>Melosira arctica</i> Dickie	<i>Navicula cincta</i> (Ehrenberg) Ralfs	<i>Encyonema minutum</i> (Hilse) D.G. Mann	
<i>Pinnularia cruciformis</i> (Donkin) Cleve		<i>Melosira moniliformis</i> (Müller) Agardh	<i>Navicula rhynocephala</i> Kützing	<i>Encyonema silesiacum</i> (Bleisch) Mann	
<i>Pinnularia quadratarea</i> (A. Schmidt) Cleve		<i>Melosira nummuloides</i> Agardh	<i>Nitzschia frigida</i> Grunow	<i>Epithemia frickei</i> Krammer	
<i>Plagiogramma staurophorum</i> (W. Gregory) Heiberg		<i>Navicula bottanica</i> Grunow	<i>Nitzschia frustulum</i> (Kützing) Grunow	<i>Eucocconeis flexella</i> (Kützing) Meister	
<i>Pleurosigma angulatum</i> (Queckett) W. Smith		<i>Navicula digitoradiata</i> (Gregory) Ralfs	<i>Nitzschia heufferiana</i> Grunow	<i>Eunotia</i> cf. <i>septentrionalis</i> Østrup	
<i>Porosira glacialis</i> (Grunow) Jorgensen		<i>Navicula halophila</i> (Grunow) Cleve	<i>Pinnularia acuminata</i> Smith	<i>Eunotia implicata</i> Nörpel, Lange-Bertalot and Alles	
<i>Psammodiscus nitidus</i> (W. Gregory) Round and D.G. Mann		<i>Navicula palpebralis</i> Brébisson ex W. Smith	<i>Planothidium delicatum</i> (Kützing) Round and Bukhtiyarova	<i>Eunotia triodon</i> Ehrenberg	
<i>Pseudosolenia calcar-avis</i> (Schultze) B.G. Sundström		<i>Navicula peregrina</i> (Ehrenberg) Kützing	<i>Pseudostaurosira brevisstriata</i> (Grunow) D.M. Williams and Round	<i>Fragilaria capucina</i> Desmazières	
<i>Rhizosolenia pungens</i> Cleve-Euler		<i>Navicula phyllepta</i> Kützing	<i>Rhopalodia gibba</i> (Ehrenberg) O. Müller	<i>Fragilaria capucina</i> var. <i>gracilis</i> (Østrup) Hustedt	
<i>Thalassiosira</i> cf. <i>angulata</i> (W. Gregory) Hasle		<i>Nitzschia</i> cf. <i>angustulata</i> Lange-Bertalot	<i>Surirella brebissonii</i> Krammer and Lange-Bertalot	<i>Fragilaria exigua</i> Grunow	
<i>Thalassiosira eccentrica</i> (Ehrenberg) Cleve		<i>Nitzschia lorenziana</i> Grunow	<i>Tabularia tabulata</i> (C.A. Agard) Snoeij	<i>Fragilaria heidenii</i> Østrup	
<i>Toxarium undulatum</i> Bailey		<i>Opephora guenter-grassii</i> (Witkowski and Lange-Bertalot) Sabbe and Wyverman	<i>Thalassiosira baltica</i> (Grunow) Ostenfeld	<i>Fragilaria inflata</i> var. <i>istvanffyii</i> (Pantocsek) Hustedt	
<i>Trachyneis aspera</i> (Ehrenberg) Cleve		<i>Opephora mutabilis</i> (Grunow) Sabbe and Wyverman	<i>Thalassiosira hyperborea</i> var. <i>pelagica</i> (Cleve-Euler) Hasle	<i>Fragilaria tenera</i> (W. Smith) Lange-Bertalot/ <i>Ulnaria delicatissima</i> (W. Smith) M. Aboal and P.C. Silva	
<i>Rhizosolenia antennata</i> fo. <i>semispina</i> Sundström		<i>Paralia sulcata</i> (Ehrenberg) Cleve	<i>Tryblionella plana</i> (W. Smith) Pelletan	<i>Frustulia rhomboides</i> var. <i>crassinervia</i> (Brébisson) Ross	
<i>Thalassiosira oestrupii</i> (Ostenfeld) Hasle		<i>Parlibellus plicatus</i> (Donkin) Cox		<i>Gomphocymbella anceli</i> (Cleve) Hustedt	
		<i>Pauliella taeniata</i> (Grunow) Round & Basson		<i>Gomphonema acuminatum</i> (Ehrenberg) W. Smith	
		<i>Petronis humerosa</i> (Brébisson ex W. Smith) A.J. Stickle and D.G. Mann		<i>Gomphonema acuminatum</i> var. <i>coronatum</i> (Ehrenberg) W. Smith	
		<i>Pinnularia halophila</i> Krammer		<i>Gomphonema angustum</i> Agardh	
		<i>Placoneis clementis</i> (Grunow) E.J. Cox		<i>Gomphonema clavatum</i> Ehrenberg	
		<i>Planothidium quarnerensis</i> (Grunow) Witkowski, Lange-Bertalot and Metzelin		<i>Karayevia clevei</i> (Grunow) Bukhtiyarova	
		<i>Pseudopododira westii</i> (W. Smith) Sheshukova-Poretzkaya and Glezer		<i>Martyana martyii</i> (Héribaud-Joseph) Round	
		<i>Pseudostaurosira perminuta</i> (Grunow) K. Sabbe and W. Wyverman		<i>Navicula</i> cf. <i>impexa</i> Hustedt	
		<i>Rhoicosphenia curvata</i> (Kützing) Grunow		<i>Navicula jentzschii</i> Grunow	
		<i>Skeletonema costatum</i> (Greville) Cleve		<i>Navicula radiosa</i> Kützing	
		<i>Tabularia</i> cf. <i>laevis</i> Kützing		<i>Navicula scutelloides</i> W. Smith	
		<i>Thalassiosira hyperborea</i> var. <i>lacunosa</i> (Berg) Hasle		<i>Nitzschia recta</i> Hantzsch	
		<i>Thalassiosira levanteri</i> Van Goor		<i>Pinnularia rostellata</i> Hustedt	
		<i>Thalassiosira proschkiniae</i> Makarova		<i>Pinnularia subcapitata</i> Gregory	
		<i>Thalassiosira pseudonana</i> Hasle and Heimdal		<i>Pseudostaurosira</i> cf. <i>elliptica</i> (Schumann) Edlund, Morales and Spaulding	
				<i>Sellaphora pupula</i> (Kützing) Mereschowsky	
				<i>Stauroneis phoenicenteron</i> (Nitzsch) Ehrenberg	
				<i>Stauraphora salina</i> (W. Smith) Mereschkowsky	
				<i>Stausira construens</i> Ehrenberg	
				<i>Stausira venter</i> (Ehrenberg) H. Kobayasi	
				<i>Stausosirella lapponica</i> (Grunow) D.M. Williams and Round	
				<i>Stausosirella pinnata</i> (Ehrenberg) Williams and Round	
				<i>Stephanodiscus</i> cf. <i>alpinus</i> Hustedt	
				<i>Stephanodiscus medius</i> Håkansson	
				<i>Stephanodiscus minutulus</i> (Kützing) Cleve and Müller	
				<i>Stephanodiscus neoastreae</i> Håkansson and Hicckel	
				<i>Stephanodiscus parvus</i> Stoermer and Håkansson	
				<i>Synedra acus</i> Kützing	
				<i>Synedra ulna</i> (Nitzsch) Ehrenberg	
				<i>Tabelaria flocculosa</i> (Roth) Kützing	
				<i>Thalassiosira lacustris</i> (Grunow) Hasle	