

Supplementary Table 1. The following table lists each diatom species/genus encountered in this study following its accepted name listed in the World Register of Marine Species (WoRMS: <http://www.marinespecies.org/>) and its associated authorities.

Diatom species or genus	Associated authorities
<i>Actinocyclus curvatus</i>	Janisch in Schmidt (1878)
<i>Asteromphalus hookeri</i>	Ehrenberg (1844)
<i>Asteromphalus hyalinus</i>	Karsten (1905)
<i>Asteromphalus parvulus</i>	Karsten (1905)
<i>Azpeitia tabularis</i>	(Grunow) Fryxell and Sims (1986)
<i>Chaetoceros (Hyalochaete) spp.</i>	Ehrenberg (1844)
<i>Chaetoceros (Chaetoceros) spp.</i>	Ehrenberg (1844)
<i>Chaetoceros</i> resting spore	Ehrenberg (1844)
<i>Chaetoceros aequatorialis</i>	Cleve (1873)
<i>Chaetoceros atlanticus</i>	Cleve (1873)
<i>Chaetoceros atlanticus</i> var. <i>neapolitana</i>	(Schroder 1900) Hustedt 1930
<i>Chaetoceros bulbosus</i>	(Ehrenberg) Heiden (1928)
<i>Chaetoceros convolutus</i>	Castracane (1886)
<i>Chaetoceros concavicornis</i>	Mangin (1917)
<i>Chaetoceros criophilus</i>	Castracane (1886)
<i>Chaetoceros curvisetus</i>	Cleve (1894)
<i>Chaetoceros debilis</i>	Cleve (1894)
<i>Chaetoceros decipiens</i>	Cleve (1873)
<i>Chaetoceros dicaeta</i>	Ehrenberg (1844)
<i>Chaetoceros flexuosus</i>	Mangin (1915)
<i>Chaetoceros mitra</i>	Cleve (1896)
<i>Chaetoceros lorenzianus</i>	Grunow (1863)
<i>Chaetoceros peruvianus</i>	Brightwell (1856)
<i>Chaetoceros radicans</i>	Schütt (1895)
<i>Chaetoceros socialis</i>	Lauder (1864)
<i>Corethron inermis</i>	Karsten (1905)
<i>Corethron pennatum</i>	Castracane (1886)
<i>Coscinodiscus</i> sp.	Ehrenberg (1839)
<i>Dactyliosolen antarcticus</i>	Castracane (1886)
<i>Dactyliosolen tenuijunctus</i>	(Mangin) Hasle (1975)
<i>Eucampia antarctica</i>	(Castracane) Mangin (1974)

<i>Fragilariopsis kerguelensis</i>	(O'Meara) Hustedt (1952)
<i>Fragilariopsis pseudonana</i>	(Hasle) Hasle (1993)
<i>Fragilariopsis separanda / rhombica</i>	(O'Meara) Hustedt (1952) / Hustedt (1958)
<i>Guinardia cylindrus</i>	(Cleve) Hasle (1997)
<i>Leptocylindrus danicus</i>	Cleve (1889)
<i>Leptocylindrus mediterraneus</i>	Hasle (1976)
<i>Membraneis</i> sp.	Paddock (1988)
<i>Membraneis challengeri</i>	Paddock (1988)
<i>Membraneis imposter</i>	Paddock (1988)
<i>Navicula</i> spp.	Bory de St.Vincent (1822)
<i>Nitzschia bicapitata</i>	Cleve (1901)
<i>Nitzschia closterium</i>	(Ehrenberg) W.Smith (1853)
<i>Nitzschia longissima</i>	(Brébisson) Ralfs (1861)
<i>Odontella weissflogii</i>	(Grunow) Grunow (1884)
<i>Paralia</i> spp.	Heiberg (1863)
<i>Plagiotropis</i> spp.	Pfitzer (1871)
<i>Haslea trompii</i>	(Cleve) Simonsen (1974)
<i>Pleurosigma</i> sp.	Smith (1852)
<i>Proboscia alata</i>	(Brightwell) Sundström (1986)
<i>Proboscia inermis</i>	(Castracane) Jordan and Ligowski (1991)
<i>Proboscia truncata</i>	(G.Karsten) Nöthig and Ligowski (1991)
<i>Pseudo-nitzschia</i> spp.	Peragallo (1900)
<i>Rhizosolenia antennata</i>	(Ehrenberg) Brown (1920)
<i>Rhizosolenia chunii</i>	Karsten (1905)
<i>Rhizosolenia crassa</i>	Schimper in Karsten (1905)
<i>Rhizosolenia pungens</i>	Cleve-Euler (1937)
<i>Rhizosolenia simplex</i>	Karsten (1905)
<i>Rhizosolenia styliformis</i>	Brightwell (1858)
<i>Rhizosolenia styliformis</i> var. <i>longispina</i>	Hustedt, (1914)
<i>Thalassionema nitzschioides</i> f. <i>nitzschioides</i>	Zielinski and Gersonde (1997)
<i>Thalassionema nitzschioides</i> f. <i>parva</i>	Heiden (1928)
<i>Thalassionema nitzschioides</i> f. <i>lanceolata</i>	(Grunow) Pergallo and Pergallo (1897-1908)
<i>Thalassiosira</i> spp. (< 25 µm)	Cleve (1873)
<i>Thalassiosira</i> spp. (25-50 µm)	Cleve (1873)
<i>Thalassiosira</i> spp. (> 50 µm)	Cleve (1873)

<i>Thalassiosira gracilis</i>	(Karsten) Hustedt (1958)
<i>Thalassiosira lentiginosa</i>	(Janisch) Fryxell (1977)
<i>Thalassiosira tumida</i>	(Janisch) Hasle (1971)
<i>Thalassiothrix antarctica</i>	Schimper and Karsten (1905)