

Supplementary materials 1. Table of species present during both cruises. A cross indicates that this species was detected during the fieldwork.

Group	Species	July	March	Group	Species	July	March	Group	Species	July	March
Chlorophyceae	Eudoria sp.	x		Bacillariophyceae	Gyrosigma strigile		x	Dinophyceae	Ceratium breve		x
Chlorophyceae	Pediastrum duplex v. duplex	x		Bacillariophyceae	Hyalodiscus stelliger		x	Dinophyceae	Ceratium candelabrum		x
Chlorophyceae	Pediastrum simplex	x		Bacillariophyceae	Lauderia borealis		x	Dinophyceae	Ceratium deflexum		x
Chlorophyceae	Pediastrum sp.	x		Bacillariophyceae	Leptocylindrus danicus	x	x	Dinophyceae	Ceratium fusus		x
Chlorophyceae	Pediastrum simplex v. simplex	x		Bacillariophyceae	Melosira sp.		x	Dinophyceae	Ceratium horridum		x
Chlorophyceae	Scenedesmus quadricauda	x		Bacillariophyceae	Melosira varians	x		Dinophyceae	Ceratium massiliense		x
Chlorophyceae	Scenedesmus acuminatus	x		Bacillariophyceae	Melosira granulata	x	x	Dinophyceae	Ceratium pulchellum		x
Chlorophyceae	Scenedesmus acutus	x		Bacillariophyceae	Melosira granulata v. angustissima	x		Dinophyceae	Ceratium tripos		x
Chlorophyceae	Staurastrum sp.	x		Bacillariophyceae	Navicula palpebralis		x	Dinophyceae	Dinophysis caudata	x	x
Cyanobacteria	Anabaena sp.(filaments)	x		Bacillariophyceae	Navicula membranacea		x	Dinophyceae	Dinophysis cf. rotundata		x
Cyanobacteria	Anabaena sp.	x		Bacillariophyceae	Navicula sp.	x	x	Dinophyceae	Dinophysis rudgei		x
Cyanobacteria	Anabaenopsis sp.	x		Bacillariophyceae	Nitzschia longissima	x	x	Dinophyceae	Diplopsalis sp.	x	
Cyanobacteria	Arthrospira platensis	x		Bacillariophyceae	Nitzschia longissima v. reversa		x	Dinophyceae	Gyrodinium spirale	x	

	Unidentified Cyanobacteria (thin filament)	x		Bacillariophyceae	Nitzschia sigma	x		Dinophyceae	Goniodoma polyedra	x	
Cyanobacteria	Microcystis sp.	x		Bacillariophyceae	Nitzschia sp.	x	x	Dinophyceae	Gonyaulax sp.	x	
Cyanobacteria	Oscillatoria sp.1	x	x	Bacillariophyceae	Odontella mobiliensis	x		Dinophyceae	Gonyaulax polygramma	x	
Bacillariophyceae	Amphiprora alata	x		Bacillariophyceae	Paralia sulcata	x	x	Dinophyceae	Gonyaulax rotundata	x	
Bacillariophyceae	Amphora quadrata	x		Bacillariophyceae	Pleurosigma sp.1	x	x	Dinophyceae	Gonyaulax spinifera	x	
Bacillariophyceae	Actinoptychus sp.	x		Bacillariophyceae	Pleurosigma sp.2	x		Dinophyceae	Oblea sp.	x	
Bacillariophyceae	Bacillaria paxillifera	x		Bacillariophyceae	Pleurosigma naviculaceum	x	x	Dinophyceae	Peridinium quinquecorne	x	
Bacillariophyceae	Bacteriastrum varians	x		Bacillariophyceae	Pleurosigma affine	x		Dinophyceae	Peridinium sp.	x	
Bacillariophyceae	Biddulphia heteroceros	x		Bacillariophyceae	Pleurosigma angulatum	x		Dinophyceae	Prorocentrum rhathymum	x	
Bacillariophyceae	Biddulphia reticulum	x		Bacillariophyceae	Pleurosigma pelagicum	x		Dinophyceae	Prorocentrum micans	x	x
Bacillariophyceae	Biddulphia regia	x	x	Bacillariophyceae	Pseudo-nitzschia sp.1 (cf. pungens)		x	Dinophyceae	Proto-peridinium conicum	x	
Bacillariophyceae	Cerataulina bergonii	x		Bacillariophyceae	Pseudo-nitzschia sp.2		x	Dinophyceae	Proto-peridinium crassipes	x	
Bacillariophyceae	Climacodium biconcavum	x		Bacillariophyceae	Pseudo-nitzschia spp.		x	Dinophyceae	Proto-peridinium subinermis	x	
Bacillariophyceae	Chaetoceros curvisetus	x		Bacillariophyceae	Skeletonema costatum	x		Dinophyceae	Proto-peridinium oceanicum	x	x
Bacillariophyceae	Chaetoceros spp.	x		Bacillariophyceae	Surirella ovalis		x	Dinophyceae	Proto-peridinium sp.1	x	
Bacillariophyceae	Chaetoceros subtilis	x		Bacillariophyceae	Surirella tenera	x		Dinophyceae	Proto-peridinium sp.2	x	
Bacillariophyceae	Chaetoceros affinis	x		Bacillariophyceae	Thalassionema frauenfeldii	x	x	Dinophyceae	Proto-peridinium spp.	x	x
Bacillariophyceae	Coscinodiscus	x		Bacillariophyceae	Thalassionema nitzschioides	x	x	Dinophyceae	Proto-peridinium depressum	x	

	curvatulus										
Bacillariophyceae	Coscinodiscus oculus-iridis		x	Bacillariophyceae	Thalassiosira rotula		x	Dinophyceae	Protoperidinium divergens		x
Bacillariophyceae	Coscinodiscus radiatus	x		Bacillariophyceae	Thalassiosira sp.		x	Dinophyceae	Protoperidinium pellucidum		x
Bacillariophyceae	Coscinodiscus jonesianus		x	Bacillariophyceae	Thalassiosira spp.		x	Dinophyceae	Protoperidinium pentagonum		x
Bacillariophyceae	Coscinodiscus jonesianus v.commutata	x	x	Bacillariophyceae	Thalassiosira eccentrica		x	Dinophyceae	Protoperidinium cf. thorianum		x
Bacillariophyceae	Coscinodiscus sp.	x	x	Bacillariophyceae	Thalassiosira lineata		x	Dinophyceae	Pyrophacus horologicum		x
Bacillariophyceae	Coscinodiscus asteromphalus	x	x	Bacillariophyceae	Thalassiothrix longissima		x	Dinophyceae	Small unidentified dinoflagellates		
Bacillariophyceae	Coscinodiscus cf.subtilis	x	x	Bacillariophyceae	Trachyneis aspera		x	Euglenophyceae	Euglena sp.1		x
Bacillariophyceae	Cyclotella comta	x		Dinophyceae	Alexandrium pseudogonyaulax	x		Euglenophyceae	Phacus cf. longicauda		x
Bacillariophyceae	Cyclotella sp.	x		Dinophyceae	Alexandrium sp.	x	x	Euglenophyceae	Phacus sp.1		x
Bacillariophyceae	Dactyliosolen sp.	x		Dinophyceae	Ceratium trichoceros		x	Euglenophyceae	Phacus tortus		x
Bacillariophyceae	Ditylum brightwellii		x	Dinophyceae	Ceratium furca	x	x	Dictyochophyceae	Dictyocha fibula		x
Bacillariophyceae	Ditylum sol		x	Dinophyceae	Ceratium fusus		x				
Bacillariophyceae	Guinardia flaccida	x		Dinophyceae	Ceratium cf. hircus		x				
Bacillariophyceae	Guinardia striata	x		Dinophyceae	Ceratium biceps		x				