

Table 2: Whole cell abundances of coccolithophores and diatoms in surface samples of the Great Calcite Belt, number of species in each group (S), Pielou's evenness (J' , **** denotes that J' was not calculated because only one species was present), the dominant species and its percentage contribution to the total numerical abundance of coccolithophores (%Co) or diatoms (%D). ⁺ denotes where one species had almost total numerical dominance (> 99.8%), with only one or two cells of a separate species enumerated, and was therefore rounded up to 100%. Holococcolithophores are abbreviated as Holococco*. Position denotes the location relative to the Southern Ocean fronts and zones (Z; north of the defined front) as defined by Orsi et al. (1995), letters after the front abbreviation denote specific locations and proximity to landmasses: Patagonian Shelf (PS); north of South Georgia (n SG); South Sandwich Islands (SS); Crozet Island (Cr), Kerguelen Island (K); Heard Island (H).

Station	Position	Coccolithophores (Co)					Diatoms (D)				
		Cell mL ⁻¹	S	J'	Dominant species	% of Co	Cell mL ⁻¹	S	J'	Dominant species	% of D
GCB1-6	SAF, PS	243	2	0.02	<i>E. huxleyi</i>	100 ⁺	127	15	0.79	<i>C. debilis</i>	26
GCB1-16	SAF, PS	1636	2	0.00	<i>E. huxleyi</i>	100 ⁺	4610	5	0.11	<i>F. pseudonana</i>	96
GCB1-25	SAFZ	55	9	0.67	<i>S. mollischi</i>	38	28	10	0.84	<i>Pseudo-nitzschia</i> sp.	37
GCB1-32	STF	23	8	0.83	<i>U. tenuis</i>	31	19	8	0.70	<i>Nitzschia</i> sp.	55
GCB1-46	STF	3	1	****	Holococco*	100	4	3	0.91	<i>Chaetoceros</i> sp.	56
GCB1-59	sPF, n SG	565	1	****	<i>E. huxleyi</i>	100	183	30	0.72	<i>T. nitzschioides</i>	29
GCB1-70	sPF	103	1	****	<i>E. huxleyi</i>	100	720	24	0.29	<i>F. nana</i>	81
GCB1-77	sPF, SS	2	1	****	<i>E. huxleyi</i>	100	6893	18	0.04	<i>F. nana</i>	98
GCB1-85	sPF	28	1	****	<i>E. huxleyi</i>	100	151	30	0.77	<i>C. aequatorialis</i> sp.	22
GCB1-92	PFZ	77	2	0.13	<i>E. huxleyi</i>	98	111	28	0.73	<i>Pseudo-nitzschia</i> sp.	32
GCB1-101	SAFZ	92	7	0.57	<i>E. huxleyi</i>	68	52	11	0.57	<i>F. pseudonana</i>	59
GCB1-109	SAFZ	39	9	0.90	<i>E. huxleyi</i>	25	129	17	0.55	<i>Pseudo-nitzschia</i> sp.	61
GCB1-117	STF	15	6	0.88	<i>U. tenuis</i>	35	209	9	0.13	<i>C. closterium</i>	95
GCB2-5	STFZ	37	15	0.69	<i>E. huxleyi</i>	46	6	8	0.76	<i>Nanoneis hasleae</i>	47
GCB2-13	STFZ	51	17	0.61	<i>E. huxleyi</i>	57	28	7	0.57	<i>Nitzschia</i> sp.<20µm	67
GCB2-27	SAF, Cr	478	6	0.04	<i>E. huxleyi</i>	99	375	24	0.28	<i>F. pseudonana</i>	83
GCB2-36	SAF	166	8	0.32	<i>E. huxleyi</i>	83	155	32	0.69	<i>F. pseudonana</i>	33
GCB2-43	PFZ	12	4	0.18	<i>E. huxleyi</i>	95	90	25	0.57	<i>F. pseudonana</i>	54
GCB2-53	sPF, K	51	3	0.90	<i>E. huxleyi</i>	56	512	28	0.39	<i>F. pseudonana</i>	47
GCB2-63	sPF, H	132	1	****	<i>E. huxleyi</i>	100	254	24	0.38	<i>F. pseudonana</i>	71
GCB2-73	sPF	0	0	****	n/a	n/a	538	24	0.55	<i>F. pseudonana</i>	56
GCB2-87	sPF	106	1	****	<i>E. huxleyi</i>	100	184	29	0.55	<i>F. pseudonana</i>	42
GCB2-93	PFZ	100	11	0.33	<i>E. huxleyi</i>	80	75	29	0.67	<i>Pseudo-nitzschia</i> sp.	37
GCB2-100	SAFZ	123	13	0.26	<i>E. huxleyi</i>	86	164	26	0.44	<i>Pseudo-nitzschia</i> sp.	67
GCB2-106	STF	90	19	0.77	<i>E. huxleyi</i>	29	80	22	0.58	<i>Pseudo-nitzschia</i> sp.	54
GCB2-112	STF	123	12	0.35	<i>E. huxleyi</i>	80	257	27	0.38	<i>Pseudo-nitzschia</i> sp.	74
GCB2-119	SAFZ	121	17	0.32	<i>E. huxleyi</i>	82	68	21	0.55	<i>Pseudo-nitzschia</i> sp.	47