

Table 1. Data overview for studied core tops, $\Delta[\text{CO}_3^{2-}]$ calculated from GLODAP data (Key et al., 2004). Down-core samples that were used for comparison of B/Ca in *C.cf. wuellerstorfi* and *C. wuellerstorfi* (Fig. 5) are given in addition.

Sample_depth	Latitude	Longitude	water depth (m)	species	B/Ca ($\mu\text{mol/mol}$)	B/Ca 1σ	$\Delta[\text{CO}_3^{2-}]$ ($\mu\text{mol/kg}$)
PS75/105-1_0cm	44°24.519'S	174°37.470'E	669	<i>C. cf.wuellerstorfi</i>	317	22.1	66.6
PS75/105-1_1cm	44°24.519'S	174°37.470'E	669	<i>C. cf.wuellerstorfi</i>	327	24.3	66.6
PS75/104-2_1cm	44°46.158'S	174°31.546'E	835	<i>C. cf.wuellerstorfi</i>	275	19.7	45.9
PS75/099-1_0cm	48°15.707'S	177°16.393'E	1270	<i>C. cf.wuellerstorfi</i>	186	10.5	26.1
PS75/099-1_1cm	48°15.707'S	177°16.393'E	1270	<i>C. cf.wuellerstorfi</i>	188	9.8	26.1
PS75/099-1_2cm	48°15.707'S	177°16.393'E	1270	<i>C. cf.wuellerstorfi</i>	174	10.3	26.1
PS75/101-2_1cm	45°48.371'S	175°52.540'E	1773	<i>C. cf.wuellerstorfi</i>	225	19.9	15.9
SO213 68-1_0cm	45°07.385'S	155°17.390'W	1988	<i>C. cf.wuellerstorfi</i>	126	6.0	11.3
PS75/100-1_0cm	45°45.454'S	177°08.932'E	2502	<i>C. cf.wuellerstorfi</i>	154	7.6	11.0
PS75/100-1_1cm	45°45.454'S	177°08.932'E	2502	<i>C. cf.wuellerstorfi</i>	195	10.0	11.0
PS75/100-1_2cm	45°45.454'S	177°08.932'E	2502	<i>C. cf.wuellerstorfi</i>	169	9.7	11.0
SO213 81-1_0cm	45°59.448'S	177°59.781'E	2816	<i>C. cf.wuellerstorfi</i>	178	9.1	0.8
SO213 79-1_0cm	45°50.688'S	179°34.169'E	3143	<i>C. cf.wuellerstorfi</i>	135	6.5	7.0
SO213 59-1_0cm	45°49.720'S	116°52.689'W	3159	<i>C. cf.wuellerstorfi</i>	187	9.2	-2.4
SO213 63-1_0cm	44°39.748'S	119°04.609'W	3938	<i>C. cf.wuellerstorfi</i>	148	6.6	-15.9
PS75/100-4_12cm	45°45.454'S	177°08.932'E	2502	<i>C. cf.wuellerstorfi</i>	107	3.7	
PS75/103-1_38cm	45°30.93'S	175°29.99'E	1390	<i>C. cf.wuellerstorfi</i>	154	5.2	
PS75/103-1_52cm	45°30.93'S	175°29.99'E	1390	<i>C. cf.wuellerstorfi</i>	183	8.8	
PS75/105-1_0cm	44°24.519'S	174°37.470'E	669	<i>C. wuellerstorfi</i>	246	17.4	66.6
PS75/104-2_2cm	44°46.158'S	174°31.546'E	835	<i>C. wuellerstorfi</i>	254	19.2	45.9
SO213 58-1_0cm	46°44.723'S	115°9.206'W	1904	<i>C. wuellerstorfi</i>	169	9.6	11.8
SO213 68-1_0cm	45°07.385'S	155°17.390'W	1988	<i>C. wuellerstorfi</i>	183	10.4	11.3
PS75/100-4_12cm	45°45.454'S	177°08.932'E	2502	<i>C. wuellerstorfi</i>	140	5.0	
PS75/103-1_38cm	45°30.93'S	175°29.99'E	1390	<i>C. wuellerstorfi</i>	191	8.8	
PS75/103-1_52cm	45°30.93'S	175°29.99'E	1390	<i>C. wuellerstorfi</i>	185	8.9	
PS75/101-2_0cm	45°48.371'S	175°52.540'E	1773	<i>C. mundulus</i>	133	10.3	15.9
PS75/100-1_0cm	45°45.454'S	177°08.932'E	2502	<i>C. mundulus</i>	109	5.6	11.0
PS75/100-1_1cm	45°45.454'S	177°08.932'E	2502	<i>C. mundulus</i>	114	5.8	11.0
SO213 81-1_0cm	45°59.448'S	177°59.781'E	2816	<i>C. mundulus</i>	117	5.9	0.8
SO213 79-1_0cm	45°50.688'S	179°34.169'E	3143	<i>C. mundulus</i>	104	5.5	7.0
SO213 59-1_0cm	45°49.720'S	116°52.689'W	3159	<i>C. mundulus</i>	99	5.6	-2.4
SO213 78-1_0cm	46°14.697'S	179°36.725'W	3410	<i>C. mundulus</i>	112	5.9	-5.1