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Table DR1. Isotope and Mg/Ca results from site 1145. Isotope measurements were made on a Finnegan MAT 253 mass spectrometer (Ostermann and Curry, 2000). The precision of the measurements is better than ±0.09‰ for $\delta^{18}O$, as determined by replicate analyses of NBS-19 and laboratory standards. Isotope analyses of *G. ruber* consisted of 7-8 shells in the 212-250 µm size-fraction. One or two *C. wuellerstorfi* individuals were analyzed. For Mg/Ca analysis, approximately 25 shells (250-355 µm) were weighed, gently crushed, and cleaned using a multi-step reductive/oxidative procedure developed for trace element analysis (Boyle and Keigwin, 1985/6) and subsequent revision (Rosenthal et al. 1995). Mg/Ca ratios were measured with a high–resolution sector–field inductively coupled plasma mass spectrometer (ICP–MS; Finnegan Element2). Mg and Ca concentrations were determined in low-resolution mode by averaging measurements from 74 scans. All ions were counted in analog mode. Based on repeated determinations of 3 different consistency standards, instrumental error of Mg/Ca is estimated to 0.04 mmol/mol. Mg/Ca ratios of foraminifera vary as a function of calcification temperature, and measured values were converted to SST using an equation developed for *G. ruber* in the Pacific Ocean (Mg/Ca = 0.38exp0.09[SST – 0.61{km} – 1.6 °C]; Dekens et al., 2002). This equation contains a depth-dependent adjustment to correct for the potential influence of dissolution on Mg/Ca that results from increasing water depth.

Leg	Site	H	Cor	T	Sc	Top(cm)	Bot(cm)	Depth(mbsf)	mcd (m)	Mg/Ca ratio	SSTs (Dekens et al., 2002)	$\delta^{18}O$ (G. ruber)	Depth	$\delta^{18}O$ wuel.
184	1145	C	1	H	1	6	8	0.06	0.26	3.38	27.8	-2.69	0.26	2.62
184	1145	C	1	H	1	15	17	0.15	0.35	3.49	28.2	-2.32	0.86	2.63
184	1145	C	1	H	1	25	27	0.25	0.45	3.12	26.9	-2.33	1.25	2.90
184	1145	C	1	H	1	36	38	0.36	0.56	3.37	27.8	-2.46	1.76	3.46

184	1145 C	1 H	1	45	47	0.45	0.65	3.08	26.8	-2.45	2.15	3.82
184	1145 C	1 H	1	55	57	0.55	0.75	3.39	27.8	-2.56	2.55	3.91
184	1145 C	1 H	1	66	68	0.66	0.86	3.52	28.3	-2.05	2.96	4.07
184	1145 C	1 H	1	75	77	0.75	0.95	3.22	27.3	-2.39	3.35	4.16
184	1145 C	1 H	1	85	87	0.85	1.05	3.34	27.7	-2.45	3.75	4.10
184	1145 C	1 H	1	96	98	0.96	1.16	3.58	28.5	-1.91	4.16	3.92
184	1145 C	1 H	1	105	107	1.05	1.25	3.56	28.4	-2.37	4.55	4.02
184	1145 C	1 H	1	115	117	1.15	1.35	3.44	28.0	-1.98	4.85	3.99
184	1145 C	1 H	1	126	128	1.26	1.46	2.88	26.0	-2.04	5.25	3.84
184	1145 C	1 H	1	135	137	1.35	1.55	3.17	27.1	-2.00	5.66	3.98
184	1145 C	1 H	2	6	8	1.56	1.76	3.36	27.8	-1.72	6.15	3.92
184	1145 C	1 H	2	15	17	1.65	1.85	3.37	27.8	-1.86	6.56	3.79
184	1145 C	1 H	2	25	27	1.75	1.95	3.17	27.1	-0.79	6.95	3.91
184	1145 C	1 H	2	36	38	1.86	2.06	2.42	24.1	-1.46	7.35	3.84
184	1145 C	1 H	2	45	47	1.95	2.15	2.39	24.0	-1.27	7.75	3.84
184	1145 C	1 H	2	55	57	2.05	2.25	2.45	24.2	-0.77	8.25	3.55
184	1145 C	1 H	2	66	68	2.16	2.36	2.92	26.2	-0.97	8.76	3.71
184	1145 C	1 H	2	75	77	2.25	2.45	2.66	25.1	-1.14	9.25	3.73
184	1145 C	1 H	2	85	87	2.35	2.55	2.37	23.9	-0.98	9.55	3.56
184	1145 C	1 H	2	96	98	2.46	2.66	2.48	24.4	-1.29	9.95	3.59
184	1145 C	1 H	2	105	107	2.55	2.75	2.39	24.0	-0.67	10.35	3.68
184	1145 C	1 H	2	115	117	2.65	2.85	2.63	25.0	-0.78	10.75	3.56
184	1145 C	1 H	2	126	128	2.76	2.96	2.46	24.3	-0.92	11.15	3.57
184	1145 C	1 H	2	135	137	2.85	3.05	2.47	24.3	-0.60	11.55	3.55
184	1145 C	1 H	2	145	147	2.95	3.15	2.41	24.1	-0.77	11.95	3.41

184	1145 C	1 H	3	6	8	3.06	3.26	2.64	25.1	-0.76	12.45	3.38
184	1145 C	1 H	3	15	17	3.15	3.35	2.54	24.6	-0.91	12.85	3.54
184	1145 C	1 H	3	25	27	3.25	3.45	2.24	23.2	-0.85	13.75	3.61
184	1145 C	1 H	3	36	38	3.36	3.56	2.50	24.5	-1.23	14.15	3.69
184	1145 C	1 H	3	45	47	3.45	3.65	2.63	25.0	-1.08	14.55	3.66
184	1145 C	1 H	3	55	57	3.55	3.75	2.73	25.5	-1.03	14.96	3.68
184	1145 C	1 H	3	66	68	3.66	3.86	2.48	24.4	-1.18	15.56	3.64
184	1145 C	1 H	3	75	77	3.75	3.95	2.45	24.2	-0.70	16.16	3.39
184	1145 C	1 H	3	85	87	3.85	4.05	2.59	24.9	-1.22	16.55	2.98
184	1145 C	1 H	3	96	98	3.96	4.16	2.47	24.3	-0.73	16.95	3.30
184	1145 C	1 H	3	105	107	4.05	4.25	2.40	24.0	-0.63	17.36	3.25
184	1145 C	1 H	3	115	117	4.15	4.35	2.58	24.8	-0.82	18.15	3.02
184	1145 C	1 H	3	125	127	4.25	4.45	2.40	24.0	-0.79	18.56	2.99
184	1145 C	1 H	3	135	137	4.35	4.55	2.23	23.2	-0.67	18.95	3.18
184	1145 C	1 H	3	145	147	4.45	4.65	2.34	23.7	-0.78	19.45	3.41
184	1145 C	1 H	4	6	8	4.56	4.76	2.42	24.1	-0.69	19.86	3.25
184	1145 C	1 H	4	15	17	4.65	4.85	2.50	24.5	-0.74	20.25	3.12
184	1145 C	1 H	4	25	27	4.75	4.95	2.42	24.1		20.65	3.08
184	1145 C	1 H	4	36	38	4.86	5.06	2.59	24.9	-1.32	21.06	3.08
184	1145 C	1 H	4	45	47	4.95	5.15	2.51	24.5	-0.88	21.45	2.95
184	1145 C	1 H	4	55	57	5.05	5.25	2.53	24.6	-0.79	21.85	3.01
184	1145 C	1 H	4	66	68	5.16	5.36	2.48	24.4	-0.79	22.25	3.22
184	1145 C	1 H	4	75	77	5.25	5.45	2.36	23.8	-1.00	22.65	3.19
184	1145 C	1 H	4	85	87	5.35	5.55	2.29	23.5	-0.85	23.05	3.35
184	1145 C	1 H	4	96	98	5.46	5.66	2.27	23.4	-0.93	23.46	3.27

184	1145 C	1 H	4	105	107	5.55	5.75	2.59	24.8	-1.22	23.85	2.82
184	1145 C	1 H	4	115	117	5.65	5.85	2.25	23.3	-0.94	24.25	2.46
184	1145 C	1 H	4	126	128	5.76	5.96	2.30	23.5	-1.05	24.66	2.44
184	1145 C	1 H	4	135	137	5.85	6.05	2.64	25.1	-1.05	25.65	3.51
184	1145 C	1 H	4	145	147	5.95	6.15	2.61	25.0	-1.23	26.15	3.83
184	1145 C	1 H	5	6	8	6.06	6.26	2.57	24.8	-1.20	26.65	3.99
184	1145 C	1 H	5	15	17	6.15	6.35	2.55	24.7	-1.27	27.05	3.95
184	1145 C	1 H	5	25	27	6.25	6.45	2.49	24.4	-1.14	27.45	4.09
184	1145 C	1 H	5	36	38	6.36	6.56	2.31	23.6	-1.10	27.85	3.88
184	1145 C	1 H	5	45	47	6.45	6.65	2.63	25.0	-1.11	28.25	3.73
184	1145 C	1 H	5	55	57	6.55	6.75	2.58	24.8	-1.08		
184	1145 C	1 H	5	66	68	6.66	6.86	2.75	25.5	-1.27		
184	1145 C	1 H	5	75	77	6.75	6.95	2.70	25.3	-1.41		
184	1145 C	1 H	5	85	87	6.85	7.05	2.56	24.7	-1.19		
184	1145 B	2 H	1	25	27	6.85	7.15	2.47	24.3	-1.43		
184	1145 B	2 H	1	36	38	6.96	7.26	2.54	24.6	-1.45		
184	1145 B	2 H	1	45	47	7.05	7.35	2.39	24.0	-1.00		
184	1145 B	2 H	1	55	57	7.15	7.45	2.38	23.9	-1.39		
184	1145 B	2 H	1	66	68	7.26	7.56	2.64	25.1	-0.94		
184	1145 B	2 H	1	75	77	7.35	7.65	2.57	24.8	-1.33		
184	1145 B	2 H	1	85	87	7.45	7.75	2.41	24.1	-1.70		
184	1145 B	2 H	1	96	98	7.56	7.86	2.66	25.2	-1.29		
184	1145 B	2 H	1	105	107	7.65	7.95	2.74	25.5	-1.11		
184	1145 B	2 H	1	115	117	7.75	8.05	2.42	24.1	-1.37		
184	1145 B	2 H	1	125	127	7.85	8.15	2.52	24.6	-1.32		

184	1145 B	2 H	1	135	137	7.95	8.25	2.76	25.6	-1.49
184	1145 B	2 H	1	145	147	8.05	8.35	2.84	25.9	-1.53
184	1145 B	2 H	2	6	8	8.16	8.46	2.58	24.8	-1.48
184	1145 B	2 H	2	15	17	8.25	8.55	2.72	25.4	-1.27
184	1145 B	2 H	2	25	27	8.35	8.65	2.60	24.9	-1.41
184	1145 B	2 H	2	36	38	8.46	8.76	2.46	24.3	-1.60
184	1145 B	2 H	2	45	47	8.55	8.85	2.41	24.1	-1.26
184	1145 B	2 H	2	55	57	8.65	8.95	2.43	24.2	-1.15
184	1145 B	2 H	2	65	67	8.75	9.05	2.88	26.0	-1.13
184	1145 B	2 H	2	75	77	8.85	9.15	2.72	25.4	-1.20
184	1145 B	2 H	2	85	87	8.95	9.25	2.53	24.6	-1.11
184	1145 B	2 H	2	95	97	9.05	9.35	2.74	25.5	-1.32
184	1145 B	2 H	2	105	107	9.15	9.45	2.43	24.2	-1.66
184	1145 B	2 H	2	115	117	9.25	9.55	2.52	24.6	-1.48
184	1145 B	2 H	2	125	127	9.35	9.65	2.69	25.3	-1.36
184	1145 B	2 H	2	135	137	9.45	9.75	2.62	25.0	-1.06
184	1145 B	2 H	2	145	147	9.55	9.85	2.68	25.2	-1.17
184	1145 B	2 H	3	5	7	9.65	9.95	2.54	24.7	-1.18
184	1145 B	2 H	3	15	17	9.75	10.05	2.59	24.9	-1.71
184	1145 B	2 H	3	25	27	9.85	10.15	2.63	25.0	-1.21
184	1145 B	2 H	3	35	37	9.95	10.25	2.59	24.9	-1.24
184	1145 B	2 H	3	45	47	10.05	10.35	2.64	25.1	-0.94
184	1145 B	2 H	3	55	57	10.15	10.45	2.82	25.8	-1.29
184	1145 B	2 H	3	65	67	10.25	10.55	2.38	23.9	-1.50
184	1145 B	2 H	3	75	77	10.35	10.65	2.40	24.0	-1.66

184	1145 B	2 H	3	85	87	10.45	10.75	2.54	24.7	-1.27
184	1145 B	2 H	3	95	97	10.55	10.85	2.50	24.5	-1.32
184	1145 B	2 H	3	105	107	10.65	10.95	2.39	24.0	-1.50
184	1145 B	2 H	3	115	117	10.75	11.05	2.51	24.5	-1.20
184	1145 B	2 H	3	125	127	10.85	11.15	2.62	25.0	-1.20
184	1145 B	2 H	3	135	137	10.95	11.25	2.40	24.0	-1.43
184	1145 B	2 H	3	145	147	11.05	11.35	2.95	26.3	-1.66
184	1145 B	2 H	4	5	7	11.15	11.45	3.07	26.8	-1.72
184	1145 B	2 H	4	15	17	11.25	11.55	2.53	24.6	-1.68
184	1145 B	2 H	4	25	27	11.35	11.65	2.60	24.9	-1.70
184	1145 B	2 H	4	36	38	11.46	11.75	2.82	25.8	-1.57
184	1145 B	2 H	4	45	47	11.55	11.85	2.59	24.9	-1.57
184	1145 B	2 H	4	55	57	11.65	11.95	2.82	25.8	-1.99
184	1145 B	2 H	4	65	67	11.75	12.05	3.06	26.7	-2.05
184	1145 B	2 H	4	75	77	11.85	12.15	2.83	25.9	-2.12
184	1145 B	2 H	4	85	87	11.95	12.25	2.62	25.0	-1.54
184	1145 B	2 H	4	95	97	12.05	12.35	2.63	25.0	-1.75
184	1145 B	2 H	4	105	107	12.15	12.45	2.82	25.8	-1.59
184	1145 B	2 H	4	115	117	12.25	12.55	2.84	25.9	-2.08
184	1145 B	2 H	4	125	127	12.35	12.65	2.46	24.3	-1.30
184	1145 B	2 H	4	135	137	12.45	12.75	2.35	23.8	-1.73
184	1145 B	2 H	4	145	147	12.55	12.85	2.36	23.8	-1.69
184	1145 B	2 H	5	6	8	12.66	12.96	2.71	25.3	-1.59
184	1145 B	2 H	5	15	17	12.75	13.05	2.71	25.4	-2.12
184	1145 B	2 H	5	25	27	12.85	13.15	2.74	25.5	-2.14

184	1145 B	2 H	5	36	38	12.96	13.26	2.69	25.3	-1.86
184	1145 B	2 H	5	45	47	13.05	13.35	2.67	25.2	-1.98
184	1145 B	2 H	5	55	57	13.15	13.45	2.55	24.7	-1.40
184	1145 B	2 H	5	65	67	13.25	13.55	2.65	25.1	-1.66
184	1145 B	2 H	5	75	77	13.35	13.65	2.50	24.5	-1.90
184	1145 B	2 H	5	85	87	13.45	13.75	2.61	25.0	-1.25
184	1145 B	2 H	5	96	98	13.56	13.86	2.69	25.3	-1.06
184	1145 B	2 H	5	105	107	13.65	13.95	2.46	24.3	-1.15
184	1145 B	2 H	5	115	117	13.75	14.05	2.40	24.0	-0.92
184	1145 B	2 H	5	125	127	13.85	14.15	2.49	24.4	-1.12
184	1145 B	2 H	5	135	137	13.95	14.25	2.33	23.7	-1.14
184	1145 C	2 H	3	66	68	11.26	14.36	2.46	24.3	-1.37
184	1145 C	2 H	3	75	77	11.35	14.45	2.69	25.3	-1.25
184	1145 C	2 H	3	85	87	11.45	14.55	2.28	23.5	-1.31
184	1145 C	2 H	3	96	98	11.56	14.66	2.42	24.1	-1.56
184	1145 C	2 H	3	105	107	11.65	14.75	2.41	24.1	-1.25
184	1145 C	2 H	3	115	117	11.75	14.85	2.42	24.1	-1.01
184	1145 C	2 H	3	126	128	11.86	14.96	2.78	25.7	-1.54
184	1145 C	2 H	3	135	137	11.95	15.05	2.72	25.4	-1.57
184	1145 C	2 H	3	145	147	12.05	15.15	2.58	24.8	-1.42
184	1145 C	2 H	4	6	8	12.16	15.26	2.60	24.9	-1.15
184	1145 C	2 H	4	15	17	12.25	15.35	2.72	25.4	-1.25
184	1145 C	2 H	4	25	27	12.35	15.45	2.62	25.0	-1.54
184	1145 C	2 H	4	36	38	12.46	15.56	2.90	26.1	-1.24
184	1145 C	2 H	4	45	47	12.55	15.65	3.03	26.6	-1.49

184	1145 C	2 H	4	55	57	12.65	15.75	2.84	25.9	-1.52
184	1145 C	2 H	4	66	68	12.76	15.86	2.75	25.5	-1.15
184	1145 C	2 H	4	75	77	12.85	15.95	2.66	25.2	-1.93
184	1145 C	2 H	4	85	87	12.95	16.05	2.65	25.1	-1.67
184	1145 C	2 H	4	96	98	13.06	16.16	2.46	24.3	-1.83
184	1145 C	2 H	4	105	107	13.15	16.25	2.83	25.8	-2.06
184	1145 C	2 H	4	115	117	13.25	16.35	2.77	25.6	-1.46
184	1145 C	2 H	4	126	128	13.36	16.46	2.65	25.1	-1.78
184	1145 C	2 H	4	135	137	13.45	16.55	2.59	24.9	-1.38
184	1145 C	2 H	4	145	147	13.55	16.65	2.78	25.7	-1.57
184	1145 C	2 H	5	6	8	13.66	16.76	2.95	26.3	-1.05
184	1145 C	2 H	5	15	17	13.75	16.85	3.07	26.8	-1.86
184	1145 C	2 H	5	25	27	13.85	16.95	2.73	25.5	
184	1145 C	2 H	5	36	38	13.96	17.06	2.79	25.7	-1.98
184	1145 C	2 H	5	45	47	14.05	17.15	3.28	27.5	-1.66
184	1145 C	2 H	5	55	57	14.15	17.25	2.71	25.4	-2.06
184	1145 C	2 H	5	66	68	14.26	17.36	3.15	27.0	-1.82
184	1145 C	2 H	5	75	77	14.35	17.45	3.26	27.4	-2.23
184	1145 C	2 H	5	85	87	14.45	17.55	3.38	27.8	-2.33
184	1145 C	2 H	5	96	98	14.56	17.66	2.79	25.7	-2.03
184	1145 C	2 H	5	105	107	14.65	17.75	2.95	26.3	-2.18
184	1145 C	2 H	5	115	117	14.75	17.85	3.00	26.5	-2.26
184	1145 C	2 H	5	126	128	14.86	17.96	2.65	25.1	-2.15
184	1145 C	2 H	5	135	137	14.95	18.05	2.75	25.5	-2.37
184	1145 C	2 H	5	145	147	15.05	18.15	2.89	26.1	-1.29

184	1145 C	2 H	6	6	8	15.16	18.26	3.08	26.8	-1.78
184	1145 C	2 H	6	15	17	15.25	18.35	3.12	26.9	-2.11
184	1145 C	2 H	6	25	27	15.35	18.45	3.16	27.1	-2.31
184	1145 C	2 H	6	36	38	15.46	18.56	2.97	26.4	-1.97
184	1145 C	2 H	6	45	47	15.55	18.65	3.36	27.8	-1.98
184	1145 C	2 H	6	55	57	15.65	18.75	3.34	27.7	-2.18
184	1145 C	2 H	6	66	68	15.76	18.86	3.14	27.0	-1.88
184	1145 C	2 H	6	75	77	15.85	18.95	2.97	26.4	-1.41
184	1145 C	2 H	6	85	87	15.95	19.05	3.10	26.9	-1.54
184	1145 B	3 H	2	55	57	18.15	19.15	2.80	25.7	-1.88
184	1145 B	3 H	2	66	68	18.26	19.26	3.09	26.8	-1.32
184	1145 B	3 H	2	75	77	18.35	19.35	2.60	24.9	-1.37
184	1145 B	3 H	2	85	87	18.45	19.45	2.85	25.9	-1.83
184	1145 B	3 H	2	96	98	18.56	19.56	2.63	25.0	-2.09
184	1145 B	3 H	2	105	107	18.65	19.65	2.57	24.8	-2.23
184	1145 B	3 H	2	115	117	18.75	19.75	2.64	25.1	-1.53
184	1145 B	3 H	2	126	128	18.86	19.86	2.72	25.4	-1.93
184	1145 B	3 H	2	135	137	18.95	19.95	3.25	27.4	-1.45
184	1145 B	3 H	2	145	147	19.05	20.05	2.85	25.9	-1.51
184	1145 B	3 H	3	7	9	19.17	20.17	3.13	27.0	-1.40
184	1145 B	3 H	3	15	17	19.25	20.25	2.65	25.1	-1.53
184	1145 B	3 H	3	25	27	19.35	20.35	2.63	25.0	-1.99
184	1145 B	3 H	3	36	38	19.46	20.46	3.04	26.6	-2.11
184	1145 B	3 H	3	45	47	19.55	20.55	2.71	25.4	-1.78
184	1145 B	3 H	3	55	57	19.65	20.65	2.59	24.8	-2.01

184	1145 B	3 H	3	66	68	19.76	20.76	3.01	26.5	-1.91
184	1145 B	3 H	3	75	77	19.85	20.85	3.31	27.6	-1.98
184	1145 B	3 H	3	85	87	19.95	20.95	2.77	25.6	-1.78
184	1145 B	3 H	3	96	98	20.06	21.06	2.88	26.0	-1.95
184	1145 B	3 H	3	105	107	20.15	21.15	3.03	26.6	-1.72
184	1145 B	3 H	3	115	117	20.25	21.25	2.91	26.2	-1.68
184	1145 B	3 H	3	126	128	20.36	21.36	3.19	27.2	-2.20
184	1145 B	3 H	3	135	137	20.45	21.45	3.29	27.5	-2.01
184	1145 B	3 H	3	145	147	20.55	21.55	3.43	28.0	-2.31
184	1145 B	3 H	4	5	7	20.65	21.65	3.16	27.1	-2.13
184	1145 B	3 H	4	15	17	20.75	21.75	3.27	27.5	-1.67
184	1145 B	3 H	4	25	27	20.85	21.85	3.03	26.6	-2.06
184	1145 B	3 H	4	35	37	20.95	21.95	3.46	28.1	-2.04
184	1145 B	3 H	4	45	47	21.05	22.05	3.38	27.8	-2.05
184	1145 B	3 H	4	55	57	21.15	22.15	3.28	27.5	-1.67
184	1145 B	3 H	4	65	67	21.25	22.25	3.20	27.2	-2.11
184	1145 B	3 H	4	75	77	21.35	22.35	3.50	28.2	-2.01
184	1145 B	3 H	4	85	87	21.45	22.45	3.45	28.1	-2.54
184	1145 B	3 H	4	95	97	21.55	22.55	3.18	27.1	-1.83
184	1145 B	3 H	4	105	107	21.65	22.65	3.49	28.2	-2.17
184	1145 B	3 H	4	115	117	21.75	22.75	3.43	28.0	-2.34
184	1145 B	3 H	4	125	127	21.85	22.85	3.27	27.5	-2.22
184	1145 B	3 H	4	135	137	21.95	22.95	3.16	27.1	-1.91
184	1145 B	3 H	4	145	147	22.05	23.05	3.02	26.6	-1.65
184	1145 B	3 H	5	6	8	22.16	23.16	2.85	25.9	-1.67

184	1145 B	3 H	5	15	17	22.25	23.25	2.71	25.4	-1.81
184	1145 B	3 H	5	25	27	22.35	23.35	2.90	26.1	-1.88
184	1145 B	3 H	5	36	38	22.46	23.46	2.91	26.2	-1.80
184	1145 B	3 H	5	45	47	22.55	23.55	2.87	26.0	-1.60
184	1145 B	3 H	5	55	57	22.65	23.65	2.69	25.3	-1.57
184	1145 B	3 H	5	66	68	22.76	23.76	2.98	26.4	-2.10
184	1145 B	3 H	5	75	77	22.85	23.85	3.52	28.3	-1.93
184	1145 B	3 H	5	85	87	22.95	23.95	3.65	28.7	-1.98
184	1145 B	3 H	5	96	98	23.06	24.06	3.43	28.0	-2.17
184	1145 B	3 H	5	105	107	23.15	24.15	3.25	27.4	-2.46
184	1145 B	3 H	5	115	117	23.25	24.25	3.59	28.5	-1.73
184	1145 B	3 H	5	125	127	23.35	24.35	3.81	29.1	-1.96
184	1145 B	3 H	5	135	137	23.45	24.45	3.79	29.1	-2.16
184	1145 B	3 H	5	145	147	23.55	24.55	3.51	28.2	-2.02
184	1145 B	3 H	6	6	8	23.66	24.66	3.49	28.2	-1.90
184	1145 B	3 H	6	15	17	23.75	24.75	3.74	29.0	-1.95
184	1145 A	4 H	1	96	98	21.36	24.86	3.45	28.1	-2.17
184	1145 A	4 H	1	105	107	21.45	24.95	3.59	28.5	-1.45
184	1145 A	4 H	1	115	117	21.55	25.05	3.04	26.6	-1.03
184	1145 A	4 H	1	126	128	21.66	25.16	3.14	27.0	-1.56
184	1145 A	4 H	1	135	137	21.75	25.25	3.31	27.6	-1.23
184	1145 A	4 H	1	145	147	21.85	25.35	3.26	27.4	-0.93
184	1145 A	4 H	2	6	8	21.96	25.45	3.36	27.7	-1.17
184	1145 A	4 H	2	15	17	22.05	25.55	2.95	26.3	-1.10
184	1145 A	4 H	2	25	27	22.15	25.65	2.82	25.8	-0.90

184	1145 A	4 H	2	36	38	22.26	25.76	2.84	25.9	-1.15
184	1145 A	4 H	2	44	46	22.34	25.84	2.98	26.4	-1.33
184	1145 A	4 H	2	55	57	22.45	25.95	2.81	25.8	-1.01
184	1145 A	4 H	2	65	67	22.55	26.05	2.65	25.1	-0.68
184	1145 A	4 H	2	75	77	22.65	26.15	2.59	24.9	-0.85
184	1145 A	4 H	2	85	87	22.75	26.25	2.58	24.8	-0.72
184	1145 A	4 H	2	95	97	22.85	26.35	2.54	24.7	-0.87
184	1145 A	4 H	2	105	107	22.95	26.45	2.50	24.5	-1.14
184	1145 A	4 H	2	115	117	23.05	26.55	2.60	24.9	-0.82
184	1145 A	4 H	2	125	127	23.15	26.65	2.82	25.8	-0.79
184	1145 A	4 H	2	135	137	23.25	26.75	2.81	25.8	-0.81
184	1145 A	4 H	2	145	147	23.35	26.85	2.82	25.8	-0.67
184	1145 A	4 H	3	5	7	23.45	26.95	2.96	26.3	-0.62
184	1145 A	4 H	3	15	17	23.55	27.05	2.96	26.3	-0.87
184	1145 A	4 H	3	25	27	23.65	27.15	2.87	26.0	-0.56
184	1145 A	4 H	3	35	37	23.75	27.25	2.62	25.0	-0.91
184	1145 A	4 H	3	44	46	23.84	27.34	2.94	26.3	-0.80
184	1145 A	4 H	3	55	57	23.95	27.45	2.97	26.4	-0.93
184	1145 A	4 H	3	65	67	24.05	27.55	2.56	24.7	-0.63
184	1145 A	4 H	3	75	77	24.15	27.65	2.68	25.2	-0.54
184	1145 A	4 H	3	85	87	24.25	27.75	2.80	25.7	-1.06
184	1145 A	4 H	3	95	97	24.35	27.85	2.55	24.7	-0.72
184	1145 A	4 H	3	105	107	24.45	27.95	2.55	24.7	-1.00
184	1145 A	4 H	3	115	117	24.55	28.05	2.84	25.9	-1.14
184	1145 A	4 H	3	125	127	24.65	28.15	2.72	25.4	-1.02

184	1145 A	4 H	3	135	137	24.75	28.25	-0.93	1.1	0.14

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Data Repository Item

Table DR2. AMS radiocarbon dates on *G. sacculifer* and calendar ages for site 1145 Hole C. Calendar ages estimated from calibration curve INTCAL98 (Stuiver et al., 1998). As these ages fell within the 2□-error bars as indicated byMARINE04 (*Hughen et al.,* 2004), the age model was not revised. A 400-year reservoir age was used, appropriate for the modern SCS (Southon et al., 2002). Previous investigators proposed a larger glacial/deglacial reservoir age in the northern SCS in order to align alkenone-derived deglacial trends with records from the southern SCS (e.g., Wang et al., 1999; Kienast et al., 2003). However, recent work from the SCS suggests that these offsets may be due to lateral transport of fine fraction, in which the alkenones occur (Mollenhauer et al., 2005). Nevertheless, because of unknown changes in reservoir ages at this and most marine sites, uncertainty in chronology exceeds the two-sigma error bars on the calibrated calendar ages, which at site 1145 range from <200 years at ~5.4 ka to as much as 800 years at 15.7 ka.

Accession No.	Sample ID (meters composite depth)	AMS ^{14}C age (yrs ago)	(cal. ka) used	2□-Error bars (yrs)
OS-27536	1H-01 50-52cm (0.7m)	5080±55	5.4	5381, 5509
OS-27537	1H-01 130-132cm (1.5m)	10600±75	11.8	11554, 12121
OS-27538	1H-02 11cm (1.8m)	12250±80	13.7	13466, 13868
OS-27540	1H-02 11cm (1.8m)	12350±65	13.7	13677, 13968
OS-27539	1H-02 50-52 (2.2m)	13550±85	15.7	15187, 15966

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