

Appendix-1

Chemical and Isotopic data for the core SK145-9

* rub, sac, men refer to foraminiferal species *G.sacculifer*, *G. ruber* and *G.menardii* respectively, all isotopic data are expressed in per mil units

NM = Not Measured

Depth (cm)	Age (a BP)	CaCO ₃ (%)	Corg (%)	C/N	δ ¹⁵ N (‰)	δ ¹³ C- rub*	δ ¹³ C- sac*	δ ¹³ C- men*	δ ¹⁸ O- rub*	δ ¹⁸ O- sac*	δ ¹⁸ O- men*
1.0	403.57	43.51	3.87	6.91	3.784	1.46	1.8	1.37	-3.27	-2.44	-1.45
2.5	465.00	45.16	3.52	6.29	3.594	0.88	1.72	1.52	-3.47	-2.68	-1.39
3.5	505.95	42.71	3.62	6.61	3.88	1.23	1.99	1.27	-2.74	-2.52	-1.38
4.5	546.90	41.89	3.90	6.96	2.73	NM#	NM	1.08	NM	NM	-1.69
5.5	587.85	43.93	3.52	6.30	3.54	1.21	1.85	NM	-2.90	-1.97	NM
6.5	628.80	43.64	3.65	6.83	3.66	1.13	1.88	NM	-2.98	-2.19	NM
7.5	669.75	44.04	3.53	6.24	3.20	NM	NM	1.28	NM	NM	-1.58
8.5	710.70	39.02	4.11	7.39	2.78	NM	NM	NM	NM	NM	NM
9.5	751.65	43.79	3.47	6.32	2.36	1.33	NM	1.19	-3.18	NM	-1.89
10.5	792.60	41.01	3.81	6.93	3.05	1.36	1.94	1.38	-2.97	-2.64	-1.50
11.5	833.55	39.84	4.00	7.55	2.94	1.25	1.96	1.32	-2.93	-2.43	-1.36
12.5	874.50	38.46	3.91	7.25	3.02	1.34	2.04	1.35	-2.65	-2.23	-1.42
13.5	915.45	38.91	4.08	7.56	3.64	1.36	1.99	1.17	-3.06	-2.40	-1.87
14.5	956.40	35.75	4.34	8.19	2.33	0.97	2.02	1.32	-3.13	-2.73	-1.49
15.5	997.35	37.65	4.24	7.86	3.20	1.36	1.94	1.49	-3.16	-2.62	-1.59
16.5	1038.30	38.44	4.02	7.58	2.76	1.21	NM	1.33	-3.32	-3.00	-1.40
17.5	1079.25	37.12	4.37	7.94	3.44	1.36	1.91	1.13	-2.93	-2.18	-1.28
18.5	1120.20	39.08	3.85	7.77	1.92	1.54	1.92	1.24	-2.45	-2.67	-1.59
19.5	1161.15	38.69	3.94	8.03	2.28	1.23	1.84	0.96	-3.51	-3.12	-1.88
20.5	1202.10	36.44	4.03	8.39	2.70	NM	NM	NM	NM	NM	NM
21.5	1243.05	36.40	4.16	8.51	2.56	1.17	1.92	1.24	-3.27	-2.76	-1.52
22.5	1284.00	39.40	4.01	8.01	2.72	1.28	NM	1.17	-3.18	-2.58	-1.32
23.5	1324.95	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
24.5	1365.90	39.15	3.82	7.96	2.65	1.35	1.90	1.22	-2.92	NM	-1.56
25.5	1406.85	39.20	3.54	7.75	2.97	1.42	1.98	1.37	-3.04	-2.40	-1.16
26.5	1447.80	41.55	3.35	7.29	2.99	NM	NM	NM	NM	NM	NM
27.5	1488.75	39.03	3.76	8.17	2.23	1.53	2.16	1.33	-2.76	-2.34	-1.34
28.5	1529.70	37.52	3.97	8.72	2.19	1.58	2.09	1.44	-2.81	-2.31	-0.94
29.5	1570.65	39.46	3.98	8.83	1.79	NM	NM	NM	NM	NM	NM
30.5	1611.60	39.00	3.76	8.36	2.13	NM	NM	NM	NM	NM	NM
31.5	1652.55	39.23	NM	NM	2.55	1.26	2.00	1.18	-3.29	-2.72	-1.69
32.5	1693.50	38.66	3.84	8.53	2.54	1.35	2.03	1.29	-2.93	-2.77	-1.43
33.5	1734.45	41.83	3.40	7.23	2.52	1.47	2.25	1.19	-3.05	-2.33	NM
34.5	1775.40	38.80	3.76	8.56	2.88	1.44	2.15	1.46	-2.88	-2.51	-1.55
35.5	1816.35	38.55	3.67	8.18	3.22	NM	2.06	1.14	NM	-2.91	-2.01
36.5	1857.30	38.63	3.73	8.49	2.34	1.49	2.07	NM	-2.83	-2.13	NM
37.5	1898.25	39.12	3.54	8.04	2.83	NM	NM	NM	NM	NM	NM
38.5	1939.20	37.04	3.75	8.94	2.70	1.42	2.23	1.42	-2.75	-1.95	-1.01
39.5	1980.15	37.70	3.63	8.63	2.52	1.22	2.31	1.37	-2.49	-1.91	-1.03
40.5	2021.10	38.59	3.73	8.67	7.30	1.51	2.18	1.31	-2.17	-1.94	-1.22

Depth (cm)	Age (a BP)	CaCO ₃ (%)	Corg (%)	C/N	δ ¹⁵ N (‰)	δ ¹³ C- rub*	δ ¹³ C- sac*	δ ¹³ C- men*	δ ¹⁸ O- rub*	δ ¹⁸ O- sac*	δ ¹⁸ O- men*
41.5	2109.15	39.53	3.64	8.08	8.60	1.53	2.13	1.28	-2.73	-2.43	-1.53
42.5	2188.20	40.34	3.61	8.20	7.80	1.31	2.21	1.45	-2.72	-2.27	-0.68
43.5	2267.25	40.54	3.48	7.90	8.10	1.39	2.21	1.34	-2.76	-2.45	-1.22
44.5	2346.30	41.50	3.44	7.82	4.45	NM	NM	NM	NM	NM	NM
45.5	2425.35	39.40	3.55	8.26	3.85	1.63	2.17	1.58	-2.83	-2.66	-1.49
46.5	2504.40	38.97	3.26	7.96	3.85	1.34	2.10	1.25	-2.62	-2.52	-1.42
47.5	2583.45	40.13	3.17	7.74	4.53	NM	NM	NM	NM	NM	NM
48.5	2662.50	41.78	3.41	7.92	4.62	1.39	2.05	1.17	-2.71	-2.57	-1.55
49.5	2741.55	38.93	3.56	8.68	3.99	1.41	1.75	1.30	-2.73	-2.68	-1.45