

**Table 1. Core locations, 14C reservoir ages, and data sources**

Core no.	PLANKTIC Latitude and Longitude w.d. (m)	14C RESERVOIR AGES (age ranges, rounded )				fMC= 1.2-1.4 non det.	B/A (yr)	fMC= 1.2		Data sources
		LGM (yr)	14C fraction decayed	fMC=1.42 ‰ $\Delta^{14}C$	HS-1 (yr)			14C fraction decayed	‰ $\Delta^{14}C$	
GIK 17940	20°07.0'N 117°23.0'E 1727	1250-1800	0.140-0.196	221-142	1050-1370	0.119-0.153	870-950	0.100-0.109	80-70	own sources
GIK 23074	66°66.67'N 117°23.0'E 1157	500-800	0.059-0.092	337-289	1700-2000	0.186-0.215	130-300	0.016-0.036	181-157	" – "
MD98-2181	6°18'N 125°49'E 2114	>900	>0.103	<274	n.d.		n.d.			"_"
MD01-2378	13°08.25'S 121°78.8'E 1783	1700-2000	0.186-0.215	156-115	<750	<0.087	200	0.024	171	" – "
MD01-2416	51°26.8'N 167°72.5'E 2317	1700	0.186	156	1500 / 450	0.166/0.053	570-720	0.067-0.083	120-100	" – "
MD02-2489	54°39.07'N 148°92.13'W 3640	1100-1560	0.125-0.172	243-176	800 / 550	0.092/0.064	450	0.053	136	" – "
MD02-2503	34°16.6'N 120°01.6'W 580	n.d.			1000-1500	0.114-0.166	400-550	0.047-0.064	143-123	" – "
MD08-3180	38°N 31°13.45'W 3064	320–600	0.038-0.070	366-321	1300-1600	0.146-0.176	700-270	0.081-0.032	103-161	" – "

ODP 893A	34°17.25'N 120°02.33'W 588	n.d.			1000-1500	0.114-0.166		400-550	0.047-0.064	143-123	" – "
ODP 1002	10°42.37'N 65°10.18'W 893	700 /	0.081/	305/	0 - 90	0.000-0.011		350	0.041	150	" – " & Hughen et al., 2006
PS2644	67°52.02'N 21°45.92'W 777	1900-2200	0.205-0.234	128-88	1650-1900	0.181-0.205		?			" – "
SO50-37	18°55'N 115°55'E 2655	1250-1800	0.140-0.196	221-142	1050-1370	0.119-0.153		870-950	0.100-0.109	80-70	" – " & Broecker et al., 1990

#### Further cores cited in this paper

MD90-917	41°29.78'N 17°61.3'E 1010	350	0.041	361	820	0.094		570	0.067	120	Siani et al., 2001
MD07-3076	44°09'S 14°13'W 3770	1700-2500	0.186-0.261	156-49	1400-1700	0.156-0.186		300 /	0.036/	157	Skinner et al., 2010
MD99-2334K	37°48'N 10°10'W 3146	1470-1750	0.163-0.191	189-149	1000-1870	0.114-0.202		560-680	0.065-0.079	121-105	Skinner et al., 2014
RAPID-17-5F	61°29'N 19°32'W 2303	470 / 1450	0.055-0.161	342-192	1900-2250 / 1000	0.205-0.238/ /0.114		250-500 /	0.030-0.059/	164-130/ /950-1050	Thornalley et al., 2011