

Table 1. Carbon-14 Ages on *N. dutertrei* Used in the Age Model of V21-30a

Sample Number	Depth (cm)	References	Raw C-14 Age (yr)	Age Error (+/-yr)	Calibrated Age (yr)	Lab	Accession
0	2190	45	1640	NOSAMS OS-20675	Koutavas and Lynch-Stieglitz [2003]		
55	5620	55	5880	NOSAMS OS-30482	Koutavas and Lynch-Stieglitz [2003]		
120	9830	55	10600	NOSAMS OS-20674	Koutavas and Lynch-Stieglitz [2003]		
151	11250	50	12740	NOSAMS OS-20676	Koutavas and Lynch-Stieglitz [2003]		
170	11750	90	13100	NOSAMS OS-30483	Koutavas and Lynch-Stieglitz [2003]		
184	12250	70	13570	NOSAMS OS-30484	Koutavas and Lynch-Stieglitz [2003]		
211	15750	40	18640	UCIAMS 46973	Stott et al. [2009]		
215	13400	90	15250	NOSAMS OS-30485	Koutavas and Lynch-Stieglitz [2003]		
225	15650	70	18400	UCIAMS 47875	Stott et al. [2009]		
225	16520	80	19190	UCIAMS 47876	Stott et al. [2009]		
236	17550	80	20150	UCIAMS 47877	Stott et al. [2009]		
236	17430	80	20060	UCIAMS 47878	Stott et al. [2009]		
241	16710	90	19300	UCIAMS 47879	Stott et al. [2009]		
241	17140	80	19740	UCIAMS 47880	Stott et al. [2009]		
250	16800	80	19360	NOSAMS OS-20680	Koutavas and Lynch-Stieglitz [2003]		
300	22100	130	25940	NOSAMS OS-46188	Koutavas and Lynch-Stieglitz [2003]		
300	22800	90	26780	NOSAMS OS-46262	Koutavas and Lynch-Stieglitz [2003]		
320	25100	150	29390	NOSAMS OS-30486	Koutavas and Lynch-Stieglitz [2003]		
400	26900	150	31640	NOSAMS OS-15720	Koutavas and Lynch-Stieglitz [2003]		
520	36400	250	41150	NOSAMS OS-20678			

aNOSAMS, National Ocean Sciences Accelerator Mass Spectrometer; UCIAMS, University of California Irvine Accelerator Mass Spectrometer.

Table 2. *G. ruber* Delta18O Records From the Eastern Equatorial Pacific Used to Calculate the Meridional Delta18O Gradient of Figure 5a

	Core ID	Latitude	Longitude	Depth (m)	References
1	MD02-2529	8degree12.33'N	84degree07.32'W	1619	Leduc et al. [2007]
2	V28-134	6degree54'N	85degree25.98'W	2434	This study
3	ME0005A-43JC	7degree51.35'N	83degree36.5'W	1368	Benway et al. [2006]
4	ODP1242	7degree51.35'N	83degree36.42'W	1364	Benway et al. [2006]
5	TR163-22	0degree30.9'N	92degree23.9'W	2830	Lea et al. [2006]
6	V21-30	1degree13'S	89degree41'W	617	This study
7	ODP1240	0degree01.31'N	86degree27.76'W	2921	Pena et al. [2008]
8	V19-28	2degree22'S	84degree39'W	2720	This study

aCore numbers on left correspond to those on the map of Figure 5. Adding to previously published data we provide here new data from V28-134, V21-30 and V19-28.

Table 3. *G. ruber* Mg/Ca SST Records Used to Calculate the East-West SST Gradienta

	Core ID	Latitude	Longitude	Depth (m)	References
1	MD9721-41	8degree48'N	121degree18'E	3633	Rosenthal et al. [2003]
2	MD06-3067	6degree31'N	126degree30'E	1575	Bolliet et al. [2011]
3	MD9821-81	6degree18'N	125degree49.8'E	2114	Stott et al. [2002]
4	ODP806B	0degree19.1'N	159degree21'E	2520	Lea et al. [2000]
5	MD9821-62	4degree41.33'S	117degree54.17'E	1855	Visser et al. [2003]
6	MD9821-65	9degree39'S	118degree20'E	2100	Levi et al. [2007]
7	MD0123-78	13degree5'S	121degree47'E	1783	Xu et al. [2008]
8	TR163-22	0degree30.9'N	92degree23.9'W	2830	Lea et al. [2006]
9	V21-30	1degree13'S	89degree41'W	617	This study
	ODP1240b	0degree01.31'N	86degree27.76'W	2921	Pena et al. [2008]

aThe core numbers on left match those on the map of Figure 3.

bSite ODP1240 was not included in the east Pacific average because of concerns over dissolution affecting the Holocene SSTs. The combination of greater depth and a more westerly location (hence greater productivity) at this site pose an elevated risk of dissolution, particularly in the Holocene, the interval most prone to dissolution. Including this record in the east Pacific average however does not change the finding of weaker LGM zonal gradient.