



*[Paleoceanography]*

Supporting Information for

**Alternating influence of northern versus southern-sourced water masses on the equatorial Pacific sub-thermocline during the past 240 ka**

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## Introduction

The Supplementary Data provides the age control points for the three analyzed sediment cores used in this study. We improved the existing age models of the ODP Site 1240 [Pena et al., 2008], SO136-003/MD06-2990 (in the later only termed MD06) [Ronge et al., 2015] and U1342 [Knudson and Ravelo, 2015a] by a combination of published radiocarbon dating and oxygen isotope ( $\delta^{18}\text{O}$ ) correlation to the global benthic  $\delta^{18}\text{O}$  stack LR04 [Lisiecki and Raymo, 2005].

**Table S3:** Age control points for analyzed sediment cores.

ODP1240			SO136-003/MD06-2990			U1342		
Core depth (m.c.d.)	Age (ky)	Pointer Type	Core depth (m)	Age (ky)	Pointer Type	Core depth (CCSF-A)	Age (ky)	Pointer type
0.01	1.91	14C Marine04 <sup>1</sup>	0.03	3.35	14C Marine04 <sup>2</sup>	0.3	12.33	Uvi (corr to cib) d18O vs LR04
0.25	5.27	14C Marine04 <sup>1</sup>	0.07	4.50	14C Marine04 <sup>2</sup>	0.49	17.49	Uvi (corr to cib) d18O vs LR04
0.77	8.90	14C Marine04 <sup>1</sup>	0.15	9.48	14C Marine04 <sup>2</sup>	0.94	20.28	Uvi (corr to cib) d18O vs LR04
1.17	10.54	14C Marine04 <sup>1</sup>	0.25	13.93	14C Marine04 <sup>2</sup>	2.1	56.74	Uvi (corr to cib) d18O vs LR04
1.38	12.79	14C Marine04 <sup>1</sup>	0.35	19.33	14C Marine04 <sup>2</sup>	2.46	70.41	Uvi (corr to cib) d18O vs LR04
1.51	13.32	14C Marine04 <sup>1</sup>	0.73	25.85	14C Marine04 <sup>2</sup>	3.12	80.69	Uvi (corr to cib) d18O vs LR04
1.75	14.6	14C Marine04 <sup>1</sup>	1.13	38.46	Cib d18O vs LR04	3.29	87.1	Uvi (corr to cib) d18O vs LR04
2.23	17.22	14C Marine04 <sup>1</sup>	1.28	45.64	Cib d18O vs LR04	3.49	93.2	Uvi (corr to cib) d18O vs LR04
2.31	17.33	14C Marine04 <sup>1</sup>	1.69	59.48	Cib d18O vs LR04	3.76	105.45	Uvi (corr to cib) d18O vs LR04
2.63	19.41	14C Marine04 <sup>1</sup>	1.13	38.46	Cib d18O vs LR04	3.94	109.3	Uvi (corr to cib) d18O vs LR04
2.91	20.88	14C Marine04 <sup>1</sup>	1.28	45.64	Cib d18O vs LR04	3.99	115.24	Uvi (corr to cib) d18O vs LR04
3.18	22.26	14C Marine04 <sup>1</sup>	1.69	59.48	Cib d18O vs LR04	4.8	126.78	Uvi (corr to cib) d18O vs LR04
3.5	26.65	14C Fairbanks05 <sup>1</sup>	1.81	61.62	Cib d18O vs LR04	5.05	131.07	Uvi (corr to cib) d18O vs LR04
3.62	28.03	14C Fairbanks05 <sup>1</sup>	2.98	62.27	Cib d18O vs LR04	5.17	134.73	Uvi (corr to cib) d18O vs LR04
4.42	33.19	14C Fairbanks05 <sup>1</sup>	3.01	63.55	Cib d18O vs LR04	5.27	140.59	Uvi (corr to cib) d18O vs LR04
4.86	36.98	14C Fairbanks05 <sup>1</sup>	3.26	79.34	Cib d18O vs LR04	5.41	155.43	Uvi (corr to cib) d18O vs LR04
5.16	38.17	14C Fairbanks05 <sup>1</sup>	3.46	86.42	Cib d18O vs LR04	5.6	165.97	Uvi (corr to cib) d18O vs LR04
5.65	44.63	Cib d18O vs LR04	3.59	93.40	Cib d18O vs LR04	6.35	184.09	Uvi (corr to cib) d18O vs LR04
6.43	49.32	Cib d18O vs LR04	3.91	105.56	Cib d18O vs LR04	6.62	191.25	Uvi (corr to cib) d18O vs LR04
7.59	52.72	Cib d18O vs LR04	4.05	108.22	Cib d18O vs LR04	7.22	217.41	Uvi (corr to cib) d18O vs LR04
9.81	64.00	Cib d18O vs LR04	4.24	128.65	Cib d18O vs LR04	7.69	227.48	Uvi (corr to cib) d18O vs LR04
10.21	75.64	Cib d18O vs LR04	4.28	130.63	Cib d18O vs LR04	7.9	233.05	Uvi (corr to cib) d18O vs LR04
10.91	80.20	Cib d18O vs LR04	4.38	136.56	Cib d18O vs LR04	8.53	240.34	Uvi (corr to cib) d18O vs LR04

11.39	87.95	Cib d18O vs LR04	4.60	139.76	Cib d18O vs LR04	8.69	249.8	Uvi (corr to cib) d18O vs LR04
12.72	109.57	Cib d18O vs LR04	4.86	156.01	Cib d18O vs LR04	8.98	255.81	Uvi (corr to cib) d18O vs LR04
13.74	118.74	Cib d18O vs LR04	5.21	165.94	Cib d18O vs LR04	10.53	282.62	Uvi (corr to cib) d18O vs LR04
14.09	126.24	Cib d18O vs LR04	5.62	185.33	Cib d18O vs LR04	11.27	299.64	Uvi (corr to cib) d18O vs LR04
14.89	130.79	Cib d18O vs LR04	5.76	191.84	Cib d18O vs LR04	12.41	328.83	Uvi (corr to cib) d18O vs LR04
17.35	155.79	G.hex vs LR04	5.89	204.31	Cib d18O vs LR04	14.53	396.69	Uvi (corr to cib) d18O vs LR04
18.53	166.23	Cib d18O vs LR04	6.13	221.39	Cib d18O vs LR04	15.39	410	Uvi (corr to cib) d18O vs LR04
18.94	173.24	G.hex vs LR04	6.17	227.48	Cib d18O vs LR04	15.72	433.2	Uvi (corr to cib) d18O vs LR04
20.63	185.53	G.hex vs LR04	6.21	231.52	Cib d18O vs LR04	16.37	455.49	Uvi (corr to cib) d18O vs LR04
22.02	198.82	G.hex vs LR04	6.45	242.92	Cib d18O vs LR04	17.92	489.11	Uvi (corr to cib) d18O vs LR04
22.86	208.38	G.ruber vs LR04	6.66	251.62	Cib d18O vs LR04	19.64	548.68	Uvi (corr to cib) d18O vs LR04
24.44	217.52	G.ruber vs LR04	7.09	268.35	Cib d18O vs LR04	20.27	576.81	Uvi (corr to cib) d18O vs LR04
24.92	227.40	G.ruber vs LR04	7.35	281.91	Cib d18O vs LR04	20.3	582.25	Uvi (corr to cib) d18O vs LR04
27.08	250.54	G.ruber vs LR04	7.58	291.43	Cib d18O vs LR04	20.9	597.65	Uvi (corr to cib) d18O vs LR04
27.75	270.39	G.ruber vs LR04	8.15	303.82	Cib d18O vs LR04	21.44	639.45	Uvi (corr to cib) d18O vs LR04
28.64	291.11	G.ruber vs LR04	8.31	307.69	Cib d18O vs LR04	22.1	689.37	Uvi (corr to cib) d18O vs LR04
29.39	299.34	G.ruber vs LR04	8.51	316.58	Cib d18O vs LR04	22.34	700.94	Uvi (corr to cib) d18O vs LR04
25.71	235.83	Ash layer	8.65	318.69	Cib d18O vs LR04	22.66	727.15	Uvi (corr to cib) d18O vs LR04
			9.00	339.06	Cib d18O vs LR04	23.6	745.43	Uvi (corr to cib) d18O vs LR04
			9.24	346.93	Cib d18O vs LR04	26.19	793.12	Uvi (corr to cib) d18O vs LR04
						26.87	817.53	Uvi (corr to cib) d18O vs LR04
						27.86	849.57	Uvi (corr to cib) d18O vs LR04
						28.47	866.26	Uvi (corr to cib) d18O vs LR04
						28.9	892.7	Uvi (corr to cib) d18O vs LR04
						29.07	909.96	Uvi (corr to cib) d18O vs LR04
						29.36	917.25	Uvi (corr to cib) d18O vs LR04
						30.19	955.99	Uvi (corr to cib) d18O vs LR04
						30.92	973.72	Uvi (corr to cib) d18O vs LR04
						31.24	993.19	Uvi (corr to cib) d18O vs LR04
						31.41	1014.92	Uvi (corr to cib) d18O vs LR04

31.59	1021.77	Uvi (corr to cib) d18O vs LR04
31.68	1032.05	Uvi (corr to cib) d18O vs LR04
35.02	1133.3	Uvi (corr to cib) d18O vs LR04
35.23	1147.62	Uvi (corr to cib) d18O vs LR04
36.12	1206.8	Uvi (corr to cib) d18O vs LR04
36.45	1216.01	Uvi (corr to cib) d18O vs LR04
39.24	1257.17	Uvi (corr to cib) d18O vs LR04

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<sup>1</sup>published in *Pena et al.* [2008]

<sup>2</sup>published in *Ronge et al.* [2015]