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Supplement of

Pliocene diatom and sponge spicule oxygen isotope ratios from the Bering Sea: isotopic offsets and future directions

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Sample	Sample source	Core	MCD	Age (Ma)	>38 μm			3-15 μm			offsets	Sponge $\delta^{18}\text{O}$	Diatom – sponge $\delta^{18}\text{O}$
					%diatom	%sponge	$\delta^{18}\text{O}$	%diatom	%sponge	$\delta^{18}\text{O}$			
BS20	U1341B-39H-6 W, 60.0-62.0 cm	39 H 6 W	372.76	2.541	97%	3%	41.7	100%	0%	41.9	0.2		
BS50	U1341B-41H-1 W, 40.0-42.0 cm	41 H 1 W	378.06	2.555	65%	35%	40.0	100%	0%	41.6	1.6		
BS51	U1341B-41H-1 W, 60.0-62.0 cm	41 H 1 W	378.26	2.556	32%	68%	38.3	100%	0%	41.5	3.2	36.8	
BS55	U1341B-41H-1 W, 140.0-142.0 cm	41 H 1 W	379.06	2.558	59%	41%	40.1	99%	1%	41.4	1.3	38.1	
BS59	U1341B-41H-2 W, 60.0-62.0 cm	41 H 2 W	379.76	2.560	56%	44%	39.6	100%	0%	41.5	1.9	37.2	
BS60	U1341B-41H-2 W, 80.0-82.0 cm	41 H 2 W	379.96	2.560	51%	49%	40.1	100%	0%	41.6	1.5	39.1	
BS67	U1341B-41H-3 W, 60.0-62.0 cm	41 H 3 W	381.26	2.564	30%	70%	39.3	100%	0%	41.1	1.8	38.5	
BS70	U1341B-41H-3 W, 120.0-122.0 cm	41 H 3 W	381.86	2.565	57%	43%	39.8	99%	1%	41.3	1.5	37.9	
BS75	U1341B-41H-4 W, 60.0-62.0 cm	41 H 4 W	382.76	2.567	13%	87%	38.6	100%	0%	41.4	2.8	38.2	
BS77	U1341B-41H-4 W, 100.0-102.0 cm	41 H 4 W	383.16	2.568	73%	27%	39.9	98%	2%	41.4	1.5	35.5	
BS80	U1341B-41H-5 W, 2.0-4.0 cm	41 H 5 W	383.68	2.570	48%	52%	40.1	100%	0%	42.0	1.9	37.7	
BS98	U1341B-42H-1 W, 141.0-142.0 cm	42 H 1 W	388.565	2.583	83%	17%	41.5	99%	1%	42.7	1.2		
BS110	U1341B-42H-3 W, 60.0-62.0 cm	42 H 3 W	390.76	2.588	75%	25%	39.5	100%	0%	40.8	1.3		
BS120	U1341B-42H-4 W, 101.0-102.0 cm	42 H 4 W	392.665	2.593	64%	36%	40.1	100%	0%	41.3	1.2		
BS173	U1341B-43H-7 W, 20.0-22.0 cm	43 H 7 W	402.43	2.635	22%	78%	37.8	99%	1%	40.9	3.1	36.9	
BS182	U1341B-43H-8 W, 62.0-64.0 cm	43 H 8 W	404.35	2.642	84%	16%	39.9	87%	13%	39.9	0.0	39.9	
BS211	U1341B-44H-4 W, 20.0-22.0 cm	44 H 4 W	409.36	2.661	87%	13%	39.5	97%	3%	38.9	-0.6	35.1	
BS223	U1341B-44H-5 W, 100.0-102.0 cm	44 H 5 W	411.66	2.669	37%	63%	37.8	99%	1%	39.2	1.4	35.7	
BS230	U1341B-44H-6 W, 80.0-82.0 cm	44 H 6 W	412.96	2.674	64%	36%	37.8	82%	18%	38.2	0.4	37.1	
BS246	U1341B-45H-1 W, 140.0-142.0 cm	45 H 1 W	415.56	2.684	92%	8%	41.7	100%	0%	41.3	-0.4		
BS261	U1341B-45H-3 W, 120.0-122.0 cm	45 H 3 W	418.36	2.694	78%	22%	38.5	96%	4%	38.2	-0.3	39.7	
BS348	U1341B-48H-1 W, 20.0-22.0 cm	48 H 1 W	434.16	2.786	76%	24%	39.0	90-95%	5-10%	-		38.0	
BS349	U1341B-48H-1 W, 40.0-42.0 cm	48 H 1 W	434.36	2.789	79%	21%	38.8	90-95%	5-10%	-		39.8	
BS350	U1341B-48H-1 W, 60.0-62.0 cm	48 H 1 W	434.56	2.791	82%	18%	39.1	90-95%	5-10%	-		39.2	
BS351	U1341B-48H-1 W, 80.0-82.0 cm	48 H 1 W	434.76	2.794	71%	29%	38.2	90-95%	5-10%	-		39.0	
BS1	U1341B-39H-4 W, 2.0-4.0 cm	39 H 4 W	369.18	2.533	100%	0%	41.3	100%	0%	41.1	-0.2		
BS4	U1341B-39H-4 W, 60.0-62.0 cm	39 H 4 W	369.76	2.534	100%	0%	41.9	100%	0%	42.3	0.4		
BS12	U1341B-39H-5 W, 60.0-62.0 cm	39 H 5 W	371.26	2.537	100%	0%	41.5	100%	0%	41.3	-0.3		
BS27	U1341B-39H-7 W, 40.0-42.0 cm	39 H 7 W	374.06	2.545	100%	0%	42.2	100%	0%	42.3	0.0		
BS33	U1341B-40H-1 W, 60.0-62.0 cm	40 H 1 W	374.76	2.547	100%	0%	41.5	100%	0%	41.8	0.3		
BS44	U1341B-40H-3 W, 20.0-22.0 cm	40 H 3 W	376.86	2.552	100%	0%	42.7	100%	0%	42.5	-0.3		
BS57	U1341B-41H-2 W, 20.0-22.0 cm	41 H 2 W	379.36	2.559	100%	0%	41.4	100%	0%	41.7	0.3		
BS62	U1341B-41H-2 W, 120.0-122.0 cm	41 H 2 W	380.36	2.561	100%	0%	41.3	100%	0%	41.7	0.5		
BS94	U1341B-42H-1 W, 58.0-60.0 cm	42 H 1 W	387.74	2.580	100%	0%	41.4	100%	0%	41.9	0.6		
BS98	U1341B-42H-1 W, 141.0-142.0 cm	42 H 1 W	388.565	2.583	100%	0%	41.5	100%	0%	42.1	0.6		
BS102	U1341B-42H-2 W, 61.0-62.0 cm	42 H 2 W	389.265	2.584	100%	0%	40.4	100%	0%	40.9	0.5		
BS123	U1341B-42H-5 W, 2.0-4.0 cm	42 H 5 W	393.18	2.595	100%	0%	40.5	100%	0%	40.8	0.2		
BS197	U1341B-44H-2 W, 60.0-62.0 cm	44 H 2 W	406.76	2.651	100%	0%	40.1	100%	0%	40.5	0.4		
BS208	U1341B-44H-3 W, 120.0-122.0 cm	44 H 3 W	408.86	2.659	100%	0%	41.0	100%	0%	40.8	-0.2		
BS240	U1341B-45H-1 W, 20.0-22.0 cm	45 H 1 W	414.36	2.679	100%	0%	40.4	100%	0%	40.0	-0.4		
BS286	U1341B-46H-1 W, 2.0-4.0 cm	46 H 1 W	423.18	2.711	100%	0%	40.2	100%	0%	39.7	-0.5		
BS289	U1341B-46H-1 W, 60.0-62.0 cm	46 H 1 W	423.76	2.713	100%	0%	39.6	100%	0%	39.2	-0.4		