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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)	%diatom area	%sponge area	%diatom biovolume	%sponge biovolume	d18O	%diatom area	%sponge area	d18O	offsets	Diatom – sponge	
														Sponge d18O MB	d18O
										<b>&gt;38</b>			<b>3-15</b>		
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%	8%	92%	38.3	100%	0%	41.5	3.2	38.0	3.5
BS55	U1341B-41H-1 W, 140.0–142.0 cm	41 H 1 W	379.06	2.558	59%	41%	58%	42%	40.1	99%	1%	41.4	1.3	38.3	3.1
BS59	U1341B-41H-2 W, 60.0–62.0 cm	41 H 2 W	379.76	2.560	56%	44%	40%	60%	39.6	100%	0%	41.5	1.9	38.3	3.2
BS60	U1341B-41H-2 W, 80.0–82.0 cm	41 H 2 W	379.96	2.560	51%	49%	52%	48%	40.1	100%	0%	41.6	1.5	38.5	3.1
BS67	U1341B-41H-3 W, 60.0–62.0 cm	41 H 3 W	381.26	2.564	30%	70%	23%	77%	39.3	100%	0%	41.1	1.8	38.8	2.3
BS70	U1341B-41H-3 W, 120.0–122.0 cm	41 H 3 W	381.86	2.565	57%	43%	79%	21%	39.8	99%	1%	41.3	1.5	34.2	
BS75	U1341B-41H-4 W, 60.0–62.0 cm	41 H 4 W	382.76	2.567	13%	87%	6%	94%	38.6	100%	0%	41.4	2.8	38.4	3.0
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%	65%	35%	40.1	100%	0%	42	1.9	36.6	
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%	15%	85%	37.8	99%	1%	40.9	3.1	37.3	3.6
BS182	U1341B-43H-8 W, 62.0–64.0 cm	43 H 8 W	404.35	2.642	84%	16%	86%	14%	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%	26%	74%	37.8	99%	1%	39.2	1.4	37.3	1.9
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%	73%	27%	38.5	96%	4%	38.2	-0.3	38.6	
										<b>&gt;75</b>			<b>&gt;38</b>		
BS348	U1341B-48H-1 W, 20.0–22.0 cm	48 H 1 W	434.16	2.786	53%	47%	91%	9%	38.7	76%	24%	39.0		37.5	
BS349	U1341B-48H-1 W, 40.0–42.0 cm	48 H 1 W	434.36	2.789	71%	29%	75%	25%	38.9	79%	21%	38.8		39.8	
BS350	U1341B-48H-1 W, 60.0–62.0 cm	48 H 1 W	434.56	2.791	60%	40%	72%	28%	39.1	82%	18%	39.1		39.1	
BS351	U1341B-48H-1 W, 80.0–82.0 cm	48 H 1 W	434.76	2.794	61%	39%	70%	30%	38.3	71%	29%	38.2		39.1	
										<b>&gt;38</b>			<b>3-15</b>		
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

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