

Supplement of Biogeosciences, 12, 4317–4331, 2015
<http://www.biogeosciences.net/12/4317/2015/>
doi:10.5194/bg-12-4317-2015-supplement
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Supplement of

Thermokarst lake methanogenesis along a complete talik profile

J. K. Heslop et al.

Correspondence to: J. K. Heslop (jheslop@alaska.edu)

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Table S1. Macrofossil samples observed in the Vault Lake core.

Sample ID Core Depth (cm)	VAULT13-14A- 1G-1-W 8-10	VAULT13-14A- 1G-1-W 8-10	VAULT13-14A- 1G-1-W 48-50	VAULT13-14A- 3N-1-W 10.5- 12.5 cm	VAULT13-14A- 3N-1-W 10.5- 22.5 cm	VAULT13-14A- 3N-1-W 20.5- 22.5 cm	VAULT13-14A- 4N-1-W 8-10	VAULT13-14A- 4N-1-W 38-40	VAULT13-14A- 6N-1-W 1-3 cm	VAULT13-14A- 14A-7N- Baggie	VAULT13-14A- 14A-7N- Baggie	VAULT13-14A- 8N-1-W 41-43	VAULT13-14A- 10N-1-W 17- 19 cm	VAULT13-14A- 11N-1-W 19- 21 cm	VAULT13-14A- 11N-2-W 2-4	VAULT13-14A- 11N-2-W 27- 28 cm	
	cm macrofossils	cm	cm macrofossils	macrofossils	12.5 cm	macrofossils	cm macrofossils	cm macrofossils	macrofossils	10 cm +125	20 cm +125	cm macrofossils	macrofossils	macrofossils	cm macrofossils	macrofossils	
Detritus (%)	90	0	40	65	0	30	0	0	0	55	0	0	0	0	10	99	10
Herbaceous Detritus (%)				40						10					85		90
Equisetum (%)									1*							1	
Total other mosses	5									5							
Sphagnum	*		2			1				2							
Polytrichum spp.				3 1*		5											1*
A. palustre	*		5	10		10				2				*			
T. nitens						5				2							
Hylocomium stems															1*		
S. scorpioides	*			3*		3											
Drepanocladus spp.						1											
Fine Ericaceous rootlets				10	10	40				20							
Ericaceous leaf fragment				2*		1*											
Vaccinium leaf fragment				1 1*					3*								
Betula nana leaf fragment																	1*
Ledum leaf fragment																	1*
Betula papyrifera seed				1*													
Picea needle wood fragments			2*	3*													
Bark				1*	10										3*		
charred wood	2*									4							
charcoal	3*			2*		2*											
Daphnia ephippia			3*							2*							

* indicates presence
* with a number indicates a count
numbers only indicate percent of total sieved fraction