Biogeosciences

Discussions

Open Access

EGU

Supplement of

Thermokarst-lake methanogenesis along a complete talik profile

J. K. Heslop et al.

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

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

Sample ID	VAULT13-14A-1G-1-W 8-10 cm macrofossils	VAULT13-14A-1G-1-W 8-10 cm	VAULT13-14A-1G-1-W 48-50 cm macrofossils	VAULT13-14A-3N-1-W 10.5-12.5 cm macrofossils	VAULT13-14A-3N-1-W 10.5-12.5 cm	VAULT13-14A-3N-1-W 20.5-22.5 cm macrofossils	VAULT13-14A-3N-1-W 20.5-22.5 cm	VAULT13-14A-4N-1-W 8-10 cm macrofossils	VAULT13-14A-4N-1-W 38-40 cm macrofossils	VAULT13-14A-6N-1-W 1-3 cm macrofossils	14A-7N-Baggie 10 cm +125	14A-7N-Baggie 20 cm +125	VAULT13-14A-8N-1-W 41-43 cm macrofossils	VAULT13-14A-10N-1-W 17-19 cm macrofossils	VAULT13-14A-11N-1-W 19-21 cm macrofossils	VAULT13-14A-11N-2-W 2-4 cm macrofossils	VAULT13-14A-11N-2-W 27-28 cm macrofossils
Core Depth (cm)	3	3	45	62	62	72	72	144	174	214	325	335	385	482	551	557	582
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. scorpiodes	*		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		2*	3*														
wood fragments				10											3*		
Bark			1*							4							
charred wood	2*																
charcoal	3*		2*			2*											
Daphnia ephippia			3*							2*							

Dry upland mosses

wet fen to aquatic mosses

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