

Supplementary file for: Møller A.K., Søborg D.A., Abu Al-Soud W., Sørensen S.J. & Kroer N. 2013. Bacterial community structure in High-Arctic snow and freshwater as revealed by pyrosequencing of 16S rRNA genes and cultivation. *Polar Research* 32. Correspondence: Niels Kroer, Department of Environmental Science, Aarhus University, Frederiksborgvej 399, DK-4000 Roskilde, Denmark. E-mail: nk@dmu.dk.

Supplementary Table S3. Distribution of most abundant genera within selected phyla from snow and freshwater.

Phylum Class	Genus	% of phylum			
		Freshwater	Snow: bottom	Snow: middle	Snow: top
<i>Proteobacteria</i>					
<i>Alpha</i>	<i>Arcobacter</i>	0.0	2.2	2.0	6.6
<i>Alpha</i>	<i>Brevundimonas</i>	1.6	4.6	3.0	1.3
<i>Alpha</i>	<i>Paracoccus</i>	0.1	1.6	2.1	9.0
<i>Alpha</i>	<i>Rhodobacter</i>	3.0	3.0	4.3	13.1
<i>Alpha</i>	<i>Roseomonas</i>	0.3	2.5	12.6	3.8
<i>Alpha</i>	<i>Sphingomonas</i>	0.1	13.9	28.7	17.2
<i>Beta</i>	<i>Herminiimonas</i>	2.4	0.1	0.5	0.1
<i>Beta</i>	<i>Rhodoferrax</i>	3.3	0.1	0.0	0.0
<i>Gamma</i>	<i>Acinetobacter</i>	0.2	1.0	0.5	9.1
<i>Gamma</i>	<i>Cellvibrio</i>	2.5	0.9	0.0	0.0
<i>Gamma</i>	<i>Pelagibacter</i>	0.0	8.1	0.2	0.3
<i>Gamma</i>	<i>Pseudomonas</i>	11.0	7.4	3.3	7.3
<i>Gamma</i>	<i>Sulfitobacter</i>	0.0	6.3	0.9	3.2
<i>Actinobacteria</i>					
<i>Actino</i>	<i>Actinobaculum</i>	0.0	0.2	0.3	3.9
<i>Actino</i>	<i>Actinomyces</i>	0.0	13.7	0.1	0.8
<i>Actino</i>	<i>Agrococcus</i>	0.0	4.2	0.0	0.3
<i>Actino</i>	<i>Conexibacter</i>	0.3	1.5	3.7	3.6
<i>Actino</i>	<i>Cryptosporangium</i>	0.0	1.0	2.7	3.0
<i>Actino</i>	<i>Ilumatobacter</i>	25.6	10.9	17.9	10.0
<i>Actino</i>	<i>Kineosporia</i>	0.1	4.0	1.5	0.8
<i>Actino</i>	<i>Rothia</i>	0.0	2.6	0.0	0.2
<i>Actino</i>	<i>Iamia</i>	0.0	0.3	2.2	2.7
<i>Actino</i>	<i>Rubrobacter</i>	0.0	0.3	3.2	9.9
<i>Bacteroidetes</i>					
<i>Bacteroidia</i>	<i>Prevotella</i>	0.0	19.4	0.1	1.1
<i>Flavobacteria</i>	<i>Cloacibacterium</i>	0.1	9.7	10.3	38.3
<i>Flavobacteria</i>	<i>Flavobacterium</i>	49.1	9.1	5.8	4.1
<i>Flavobacteria</i>	<i>Fluviicola</i>	3.2	0.7	0.1	0.0
<i>Flavobacteria</i>	<i>Polaribacter</i>	0.0	2.8	0.3	0.5
<i>Sphingobacteria</i>	<i>Chitinophaga</i>	0.0	2.0	5.1	2.4
<i>Sphingobacteria</i>	<i>Hymenobacter</i>	0.0	3.4	13.4	4.8
<i>Sphingobacteria</i>	<i>Pedobacter</i>	0.4	5.6	4.2	2.2

<i>Sphingobacteria</i>	<i>Mucilaginibacter</i>	0.0	2.9	2.6	1.2
<i>Sphingobacteria</i>	<i>Spirosoma</i>	0.0	1.5	4.1	3.0
<i>Cyanobacteria</i>					
<i>Cyanobacteria</i>	<i>GpI</i>	13.3	76.2	62.0	78.9
<i>Cyanobacteria</i>	<i>GpIV</i>	6.7	2.2	2.3	1.1
<i>Cyanobacteria</i>	<i>GpV</i>	0.0	2.4	2.2	1.2
<i>Cyanobacteria</i>	<i>GpVI</i>	0.0	3.9	1.7	0.8
<i>Cyanobacteria</i>	<i>GpXIII</i>	0.0	1.5	2.0	1.1
<i>Firmicutes</i>					
<i>Bacilli</i>	<i>Enterococcus</i>	0.0	0.2	1.9	3.1
<i>Bacilli</i>	<i>Exiguobacterium</i>	0.0	0.0	0.7	9.9
<i>Bacilli</i>	<i>Lactococcus</i>	0.0	0.5	5.7	6.2
<i>Bacilli</i>	<i>Lysinibacillus</i>	0.0	0.0	0.0	3.4
<i>Bacilli</i>	<i>Staphylococcus</i>	0.0	9.8	6.9	7.0
<i>Bacilli</i>	<i>Streptococcus</i>	4.2	64.4	13.1	29.9
<i>Bacilli</i>	<i>Bacillus</i>	0.0	0.5	2.8	2.7
<i>Bacilli</i>	<i>Gemelia</i>	0.0	2.9	0.7	1.2
<i>Clostridia</i>	<i>Finegoldia</i>	0.0	0.5	5.1	0.8
<i>Clostridia</i>	<i>Oscillibacter</i>	0.0	0.4	4.0	0.7
<i>Planctomycetes</i>					
<i>Planctomycetes</i>	<i>Gemmata</i>	0.0	2.1	9.2	1.7
<i>Planctomycetes</i>	<i>Isosphaera</i>	93.2	10.8	21.0	41.0
<i>Planctomycetes</i>	<i>Planctomyces</i>	0.2	41.2	8.1	7.3
<i>Planctomycetes</i>	<i>Rhodopirellula</i>	0.1	3.1	2.7	0.9
<i>Planctomycetes</i>	<i>Singulisphaera</i>	0.0	19.6	44.1	38.5
<i>Planctomycetes</i>	<i>Zavarzinella</i>	0.0	5.2	0.7	0.0