Supplementary Table 1. Acari identified by the classical (microscopic) approach, in bryophytes collected from the glacier ice surface, medial moraine, and glacial forefield of Austerdalsbreen, Norway. The numbers indicate the number of identified specimens. The table include taxons not considered as a separate species, e.g. Zerconidae gen. sp. (which could be in fact *Mixozercon* sp. or *Zercon* sp.) or e.g. family Laelapidae represented by three specimens but without possibility for the identification (it could consist from one to three species).

Suborder	Family	Species	Glacier ice surface	Medial moraine	Glacial forefield
Mesostigmata	Epicriidae	gen. sp.	0	0	1
	Zerconidae	*Mixozercon sellnicki*	0	0	5
		Zercon sp.	0	0	13
		gen. sp.	1	0	19
	Veigaeidae	*Veigaia* sp.	0	0	6
		gen. sp.	0	0	1
	Macrochelidae	gen. sp.	0	0	1
	Laelapidae	gen. sp.	0	3	0
	Pachylaelapidae	gen. sp.	0	0	2
Prostigmata	Cocceupodidae	*Cocceupodes* sp.	0	0	1
		Linopodes sp.	1	2	0
	Eupodidae	*Claveupodes* sp.	1	0	2
		Eupodes sp. 1	1	0	51
		Eupodes sp. 2	0	0	1
		gen. sp.	0	0	2
	Penthaleidae	*Penthaleus* sp.	0	0	3
	Rhagidiidae	*Poecilophysis* sp.	0	0	1
		Rhagidia sp.	0	0	10
		gen. sp.	0	0	1
	Ereynetidae	*Ereynetes* sp.	0	0	3
	Iolinidae	*Microtydeus* sp.	0	0	3
		Tydaeolus tenuiclaviger	0	0	4
		gen. sp.	1	0	0
	Triophtydeidae	*Triophtydeus* sp.	2	0	0
		gen. sp.	2	0	0
	Tydeidae	*Lorryia brevicula*	4	0	0
		Lorryia tridactyla	0	0	7
		Lorryia wensteini	0	0	7
		Lorryia sp.	1	0	1
		gen. sp.	1	0	6
	Stigmaeidae	*Stigmaeus longipilis*	0	0	1
		Mediolata sp.	0	0	1
		gen. sp.	0	0	1
	Tetranychidae	*Eotetranychus* sp.	1	0	0

	Cheyletidae	*Cheyletus eruditus*	0	2	0
	Tarsonemidae	*Tarsonemus* sp.	0	0	3
Endeostigmata	Alycidae	gen. sp.	0	1	0
		Bimichaelia sp.	0	0	1
	Nanorchestidae	*Nanorchestes* sp.	0	0	3
	Alicorhagiidae	*Alicorhagia* sp.	1	0	0
Oribatida	Brachychthoniidae	*Brachychthonius* sp.	0	0	5
		Liochthonius hystricinus	1	0	0
		Liochthonius sp.	1	0	3
		Poecilochthonius sp.	0	1	0
		gen sp.	2	1	2
	Camisiidae	*Camisia solhoeyi*	0	0	1
	Nothridae	*Nothus palustris*	2	0	0
	Trhypochthoniidae	*Trhypochthoniellus* sp.	0	0	1
	Neoliodidae	*?Platyliodes* sp.	0	0	1
	Oppiidae	*Oppia* sp.	0	1	0
		Oppiella nova	0	0	12
		Dissorhina ornata	1	0	1
		Microppia minus	4	0	0
	Quadroppiidae	*Quadroppia quadricarinata*	1	0	0
	Suctobelbidae	*Suctobelba subcornigera*	4	1	1
	Tectocepheidae	*Tectocepheus velatus velatus*	0	0	2
		Tectocepheus velatus sarekensis	2	2	1
	Licneremaeidae	*Licneremaeus licnophorus*	2	0	1
	Hemileiidae	*Hemileius initialis*	0	0	5
	Scheloribatidae	*Liebstadia* sp.	2	0	5
	Oribatulidae	*Oribatula tibialis*	0	0	4
		Zygoribatula sp.	0	0	3
	Ceratozetidae	*Melanozetes mollicomus*	1	0	0
		Melanozetes sp.	1	0	0
	Mycobatidae	*Mycobates sarekensis*	0	0	4
Oribatida: Astigmatina	fam.	gen. sp.	1	5	16

Supplementary Table 2. Collembola identified by the classical (microscopic) approach, in bryophytes collected from the glacier ice surface, medial moraine, and glacial forefield of Austerdalsbreen, Norway. The numbers indicate the number of identified specimens. The table include taxons not considered as a separate species, e.g. *Entomobrya* n.d. (which could be in fact other already identified Collembola).

Species	Glacier ice surface	Medial moraine	Glacial forefield
Agrenia bidenticulata	676	57	1
Tetracathella wahlgreni			4
Friesea mirabilis		1	5
Entomobrya n.d.			1
Orchesella sp.			1
Desoria cf. *hiemalis*			2
Desoria infuscata		43	52
Desoria olivacea		2	16