

Supplementary file for: Zmudczyńska-Skarbek K., Zwolicki A., Convey P., Barcikowski M. & Stempniewicz L. 2015. Is ornithogenic fertilization important for collembolan communities in Arctic terrestrial ecosystems? *Polar Research* 34. Correspondence: Katarzyna Zmudczyńska-Skarbek, Department of Vertebrate Ecology and Zoology, University of Gdańsk, Wita Stwosza 59, PL-80-308 Gdańsk, Poland. E-mail: biozmud@ug.gda.pl

Supplementary Table S1. List of Collembola species with their percent of occurrence (%) and mean abundance (A, ind m⁻²) recorded in each site of the current study. Values from sites close to seabird colonies are in the grey columns. For the species authorities see Coulson (2014).

Species	Bjørnøya										Isfjorden				Magdalenefjorden							
	B-A		B-Ac		B-L		B-Lc		B-S		B-Sc		I-A		I-Ac		M-A1		M-A2		M-Ac	
	%	A	%	A	%	A	%	A	%	A	%	A	%	A	%	A	%	A	%	A	%	A
<i>Agrenia bidenticulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	5106
<i>Anurida polaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	11	26	22	26	78	3434	67	3001	100	12587
<i>Arrhopalites principalis</i>	20	24	0	0	0	0	0	0	0	0	0	0	33	52	0	0	11	79	0	0	0	0
<i>Ceratophysella longispina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	406	0	0
<i>Ceratophysella succinea</i>	0	0	0	0	0	0	0	0	2	7	0	0	0	0	0	0	0	0	11	13	0	0
<i>Desoria neglecta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	13	0	0	0	0
<i>Desoria tshernovi</i>	40	71	0	0	0	0	20	71	0	0	0	0	0	0	0	0	11	26	22	79	14	84
<i>Folsomia bisetosa</i>	0	0	20	24	20	1911	40	354	13	546	0	0	89	2045	78	682	22	459	33	328	0	0
<i>Folsomia bisetosella</i>	0	0	0	0	0	0	0	0	0	0	0	0	78	708	11	13	0	0	11	39	0	0

Species	Bjørnøya										Isfjorden				Magdalenefjorden							
	B-A		B-Ac		B-L		B-Lc		B-S		B-Sc		I-A		I-Ac		M-A1		M-A2		M-Ac	
	%	A	%	A	%	A	%	A	%	A	%	A	%	A	%	A	%	A	%	A	%	A
<i>Folsomia bisetosella</i>	0	0	0	0	0	0	0	0	0	0	0	0	78	708	11	13	0	0	11	39	0	0
<i>Folsomia coeruleogrisea</i>	0	0	0	0	0	0	0	0	0	0	0	0	33	39	22	52	100	19999	100	7352	29	101
<i>Folsomia quadrioculata</i>	100	3185	100	3892	60	2406	80	1840	88	8913	38	619	100	19619	100	2411	100	95017	100	17457	100	154956
<i>Folsomia sexoculata</i>	0	0	0	0	0	0	0	0	2	15	4	29	0	0	0	0	0	0	0	0	0	0
<i>Friesea quinquespinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	22	39	33	66	100	2307	56	105	29	51
<i>Hypogastrura concolor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	708	11	26	43	84
<i>Hypogastrura tullbergi</i>	0	0	0	0	0	0	0	0	0	0	0	0	100	15910	100	6540	100	11520	67	603	86	14795
<i>Hypogastrura viatica</i>	0	0	0	0	0	0	20	71	0	0	21	236	0	0	0	0	0	0	11	1062	0	0
<i>Isotoma anglicana</i>	80	236	100	637	50	283	20	71	46	383	38	487	100	1678	100	721	89	419	44	197	100	1854
<i>Lepidocyrtus lignorum</i>	0	0	0	0	0	0	0	0	0	0	0	0	100	2372	100	2752	100	2556	78	550	0	0
<i>Megalothorax minimus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	13	0	0	22	79	0	0
<i>Megaphorura arctica</i>	0	0	0	0	0	0	0	0	0	0	0	0	22	92	22	157	11	13	0	0	0	0
<i>Mesaphorura macrochaeta</i>	0	0	0	0	0	0	0	0	0	0	0	0	11	52	0	0	0	0	0	0	0	0
<i>Micranurida pygmaea</i>	0	0	0	0	0	0	0	0	0	0	0	0	33	92	22	39	11	13	22	26	14	17

Species	Bjørnøya												Isfjorden				Magdalenefjorden							
	B-A		B-Ac		B-L		B-Lc		B-S		B-Sc		I-A		I-Ac		M-A1		M-A2		M-Ac			
	%	A	%	A	%	A	%	A	%	A	%	A	%	A	%	A	%	A	%	A	%	A		
<i>Oligaphorura groenlandica</i>	0	0	0	0	0	0	0	0	0	0	0	0	33	183	33	92	89	2018	67	1678	29	202		
<i>Oligaphorura ursi</i>	0	0	0	0	0	0	0	0	0	10	103	0	0	11	39	44	131	0	0	11	13	0	0	
<i>Parisotoma notabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	2700	0	0	11	79	0	0	
<i>Protaphorura macfadyeni</i>	0	0	20	24	30	177	20	5308	2	15	0	0	78	1874	22	79	0	0	0	0	0	0	0	0
<i>Pseudanuphorus alticola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	66	0	0	
<i>Sminthurides malmgreni</i>	0	0	0	0	0	0	0	0	0	4	37	8	44	0	0	0	0	0	0	0	0	71	506	
<i>Sminthurinus concolor</i>	40	47	20	24	20	106	0	0	0	0	0	0	33	92	0	0	89	878	0	0	14	67	0	0
<i>Sphaeridia pumilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	92	0	0	0	0	
<i>Tetracanthella arctica</i>	20	24	80	2383	0	0	20	71	13	162	63	2669	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thalassaphorura duplopunctata</i>	0	0	40	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Willemia similis</i>	0	0	0	0	0	0	0	0	0	0	0	0	44	92	33	39	0	0	22	170	0	0	0	0
<i>Willemia scandinavica</i>	0	0	0	0	30	177	20	354	2	22	0	0	11	13	22	66	0	0	22	682	0	0	0	0
<i>Xenylla humicola</i>	20	118	0	0	20	71	20	71	27	1091	17	74	0	0	0	0	56	3670	22	380	86	7246	0	0

References

Coulson S.J. 2014. The terrestrial and freshwater invertebrate fauna of Svalbard: a checklist. Accessed on the internet at http://www.unis.no/35_STAFF/staff_webpages/biology/steve_coulson/documents/Invertdatabase15-09-14.pdf on 4 June 2015.