Supplementary material for: Zawierucha K., Marshall C.J., Wharton D. & Janko K. 2019. A single metazoan species dominates ecosystems in remote Antarctic deserts with increased nematode densities at altitude. *Polar Research 38.* Contact: Karel Janko, Laboratory of Fish Genetics, Institute of Animal Physiology and Genetics, Academy of Sciences of the Czeh Republic, Rumburská 89, 277 21 Liběchov, Czech Replublic. E-mail janko@iapg.cas.cz

Supplementary Table S1. List of sampling sites along with coordinates, m a.s.l., nematode densities as well as physico-chemical soil parameters: pH, conductivity, organic matter content (LOI) and moisture.

N	Locality	Latitude	Longitude	m a.s.l.	Nematode	pH	Conductivity	LOI	Moisture
1a	BB	-79.8074	158.61361	606	0	7.94	265	0.39	13.91
1b	BB	-79.8074	158.61361	606	0	7.33	329	0.53	12.19
2a	BB	-79.8027	158.60165	642	0	8.02	1503.7	0.38	7.37
2b	BB	-79.8027	158.60165	642	0	7.88	2.6	0.43	8.48
3a	BB	-79.8012	158.60127	659	0	8.39	1816.3	0.51	5.94
3b	BB	-79.8012	158.60127	659	0	8.08	1524	0.26	7.26
4a	BB	-79.7995	158.59104	682	0	7.84	1590	0.68	7.6
4b	BB	-79.7995	158.59104	682	0	7.6	1577.3	0.56	8.41
5a	BB	-79.7574	158.61558	969	0	8.19	7912.3	0.25	18.11
5b	BB	-79.7574	158.61558	969	0	8.05	751.7	0.2	3.52
6a	BB	-79.7571	158.59949	1022	0	8.21	177.3	0.47	2.73
6b	BB	-79.7571	158.59949	1022	0	8.02	171.9	0.54	18.55
7a	BB	-79.7581	158.61866	1025	0	7.58	3.2	0.31	28.34
7b	BB	-79.7581	158.61866	1025	0	7.68	3.5	0.39	9.46
8a	BB	-79.7572	158.62652	1043	36	8.19	50.8	0.2	16.11
8b	BB	-79.7572	158.62652	1043	40	8.38	77	0.31	15830
9a	BB	-79.7549	158.60332	1059	0	8.86	197.2	0.49	7.66
9b	BB	-79.7549	158.60332	1059	0	8.8	267	0.41	5.85
10a	BB	-79.7542	158.60591	1074	0	9.18	920	0.32	3.11
10b	BB	-79.7542	158.60591	1074	0	9.08	179.9	0.46	9.05
11a	BB	-79.7521	158.55333	1161	0	8.29	54.1	2.56	17.48
11b	BB	-79.7521	158.55333	1161	0	8.24	128.1	1.2	19.78
12a	BB	-79.7522	158.55147	1164	0	9.28	1787.7	0.32	5.44
12b	BB	-79.7522	158.55147	1164	0	9.29	1896.7	0.3	5.64
13a	BB	-79.7467	158.53641	1195	0	8.83	864	0.28	12.39

13b	BB	-79.7467	158.53641	1195	0	8.18	2.7	0.37	8.5
14a	BB	-79.7513	158.51308	1202	0	8.15	1631.3	0.2	4.28
14b	BB	-79.7513	158.51308	1202	0	7.86	163.9	0.26	6.23
15a	DH	-79.887	159.36888	210	2	8.66	25.25	0.47	4.59
15b	DH	-79.887	159.36888	210	0	8.28	22.73	0.21	4.61
16a	DH	-79.8837	159.35359	258	4	8.91	133.07	0.93	13.85
16b	DH	-79.8837	159.35359	258	6	8.12	75.83	0.66	12.95
17	DH	-79.8824	159.34584	300	1	9.2	211	0.83	43.68
18a	DH	-79.8769	159.32679	442	8	8.59	87.2	0.39	10.18
18b	DH	-79.8769	159.32679	442	0	8.26	21.06	0.3	13.89
19a	DH	-79.8672	159.32235	565	8	8.34	19.42	0.49	7.91
19b	DH	-79.8672	159.32235	565	0	8.01	20.46	0.27	11.51
20a	DH	-79.8367	159.30839	586	46	7.64	335.67	0.85	8.86
20b	DH	-79.8367	159.30839	586	30	7.87	221	0.74	10.3
21a	DH	-79.8463	159.36843	595	0	8.22	6.54	0.31	5.87
21b	DH	-79.8463	159.36843	595	0	8.72	2.7	0.64	7.47
22a	DH	-79.8459	159.37864	602	9	8.25	48.67	0.37	3.63
22b	DH	-79.8459	159.37864	602	33	8.23	34.83	0.43	2.81
23a	DH	-79.8476	159.37735	605	0	8.56	1213	0.44	5.87
23b	DH	-79.8476	159.37735	605	0	7.77	1405.33	0.56	6.11
24a	DH	?	?	634	8	8.36	63.7	0.77	11.69
24b	DH	?	?	634	8	2.79	0	0.77	13.9
25	DH	-79.8595	159.32469	648	1	6.98	37.03	0.19	8.65
26	DH	-79.8574	159.30041	763	27	7.12	21.58	0.23	17.23
27a	DH	-79.841	159.16968	773	0	7.96	2.57	0.69	7.98
27b	DH	-79.841	159.16968	773	0	7.63	6.08	0.47	6.77
28a	DH	-79.849	159.24995	789	95	8.93	46.6	0.4	28.13
28b	DH	-79.849	159.24995	789	18	8.55	38.93	0.29	26.81
29	DH	-79.8564	159.28135	814	43	7.07	25.47	0.84	19.77
30	DH	-79.8568	159.27782	820	15	7.75	46.63	0.17	17.47
31	DH	-79.8588	159.26308	836	0	7.91	1860	1.05	17.87