

## SUPPLEMENTARY MATERIALS

**Table S1** Springtail collection information showing the location, coordinates and BOLD sample IDs of sequences for each unique haplotype

<b>Haplotype #</b>	<b>Location</b>	<b>Coordinates</b>	<b>BOLD Sample IDs</b>
<i>G. hodgsoni</i>			
Gh1	Tiger Island	-76.784 162.452	ANTSP607
	Flatiron	-77.005 162.408	ANTSP585, ANTSP587, ANTSP589, ANTSP605, ANTSP606, ANTSP607, ANTSP628, ANTSP629
	Benson Glacier	-76.822 162.107	ANTSP596, ANTSP597
	St Johns Range	-77.2801 161.731	ANTSP129, ANTSP131, ANTSP134, ANTSP136, ANTSP137, ANTSP138, ANTSP140, ANTSP141, ANTSP143, ANTSP151, ANTSP216
Gh2	St Johns Range	-77.2801 161.731	ANTSP128, ANTSP144, ANTSP145, ANTSP147, ANTSP148, ANTSP149, ANTSP214, ANTSP218
Gh3	St Johns Range	-77.208 161.7	ANTSP210
Gh4	Flatiron	-77.005 162.408	ANTSP584, ANTSP586, ANTSP604
	St Johns Range	-77.208 161.7	ANTSP213, ANTSP215
Gh5	Flatiron	-77.005 162.408	ANTSP631
Gh6	Benson Glacier	-76.87 161.754	ANTSP564, ANTSP565
Gh7	Mount Seuss	-77.015 161.75	ANTSP153, ANTSP166, ANTSP167, ANTSP534
	St Johns Range	-77.208 161.7	ANTSP209

Gh9	St Johns Range	-77.2801 161.731	ANTSP132, ANTSP133, ANTSP135, ANTSP139, ANTSP211, ANTSP212
Gh10	St Johns Range	-77.285 161.726	ANTSP217
Gh11	Flatiron	-77.005 162.408	ANTSP634, ANTSP635
Gh12	St Johns Range	-77.2849 161.726	ANTSP150
Gh13	Mount Seuss	-77.023 161.738	ANTSP152, ANTSP154, ANTSP157, ANTSP158, ANTSP159, ANTSP160, ANTSP161, ANTSP163, ANTSP164, ANTSP165, ANTSP168, ANTSP169, ANTSP172, ANTSP174, ANTSP175, ANTSP225, ANTSP518, ANTSP520, ANTSP521, ANTSP522, ANTSP524, ANTSP532, ANTSP533, ANTSP540, ANTSP541
	Benson Glacier	-76.87 161.754	ANTSP563
Gh14	Mount Seuss	-77.021 161.737	ANTSP521
Gh15	Mount Seuss	-77.015 161.75	ANTSP535
Gh16	Flatiron	-77.005 162.408	ANTSP627
Gh17	Tiger Island	-76.783 162.452	ANTSP639
Gh18	Tiger Island	-76.783 162.452	ANTSP590, ANTSP612
Gh19	Tiger Island	-76.783 162.452	ANTSP592, ANTSP637, ANTSP638, ANTSP640, ANTSP642, ANTSP643, ANTSP644, ANTSP646
	Benson Glacier	-76.822 162.107	ANTSP623
Gh20	Mount Seuss	-77.011 161.768	ANTSP142, ANTSP173, ANTSP519, ANTSP525, ANTSP531

Gh21	Mount Seuss	-77.023 161.738	ANTSP539
Gh22	Mount Seuss	-77.2849 161.726	ANTSP142
Gh23	Towle Glacier	-76.655 161.093	ANTSP561
Gh24	Towle Glacier	-76.729 161.011	ANTSP556, ANTSP557, ANTSP558, ANTSP559
Gh25	Mount Gran	-76.982 161.16	ANTSP202
Gh26	St Johns Range	-77.2849 161.726	ANTSP146
Gh27	Benson Glacier	-76.822 162.107	ANTSP594, ANTSP595, ANTSP598, ANTSP599, ANTSP600, ANTSP601, ANTSP624, ANTSP649, ANTSP651, ANTSP652, ANTSP653, ANTSP654, ANTSP655, ANTSP656

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*A. monoculata*

Am1	Cliff Nunatak	-76.11 162.015	ANTSP552, ANTSP553, ANTSP554, ANTSP555, ANTSP566, ANTSP567, ANTSP568, ANTSP569, ANTSP579, ANTSP580, ANTSP581, ANTSP582
	Mount Murray	-76.11 162.014	ANTSP570, ANTSP571, ANTSP572, ANTSP573, ANTSP574, ANTSP575, ANTSP576, ANTSP577, ANTSP578, ANTSP613, ANTSP615
Am2	Pegtop Mountain	-77.046 161.362	ANTSP618
Am3	Pegtop Mountain	-77.046 161.362	ANTSP616
Am4	Benson Glacier	-76.822 162.107	ANTSP622
Am5	Springtail Point	-77.168 160.71	ANTSP196, ANTSP235

Am6	Springtail Point	-77.168 160.71	ANTSP194, ANTSP195, ANTSP203, ANTSP204, ANTSP205
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*C. nivicolus*

Cn1	Tiger Island	-76.784 162.452	ANTSP609
	Mount Seuss	-77.023 161.738	ANTSP124, ANTSP155, ANTSP156, ANTSP536, ANTSP543, ANTSP544, ANTSP548, ANTSP611
	Mount Gran	-76.972 161.148	ANTSP619, ANTSP620, ANTSP621
Cn2	Mount Seuss		ANTSP170
Cn3	Mount Seuss	-77.023 161.738	ANTSP547
Cn4	Mount Seuss	-77.023 161.746	ANTSP537, ANTSP550
Cn5	Towle Glacier	-76.655 161.093	ANTSP602, ANTSP603
Cn6	Springtail Point	-77.1676 160.71	ANTSP119, ANTSP121
Cn7	Springtail Point	-77.1676 160.71	ANTSP118

**Fig. S1** Bayesian Inference tree showing estimated divergence times for *Gomphiocephalus hodgsoni*, *Cryptopygus nivicolus* and *Antarcticinella monoculata*. Timescale along the bottom is in My. Numbers on nodes refer to estimated divergence times for those populations.





