

Supplemental Material

Table S1. Comparison of germline chromosome inversions in *Belgica antarctica* larvae from the studied locations.

Inversion	Location		Fisher's exact test p-value
	Galindez Island, location 1	Galindez Island, location 2	
Chromosome II: inversion A	present	7	0.0364
	absent	28	
Chromosome II: inversion B	present	4	0.2013
	absent	31	
Chromosome III: inversion C	present	0	0.4697
	absent	35	
Chromosome III: inversion D1	present	7	0.0099
	absent	28	
Number of examined individuals		35	31

Table S2. Frequencies of chromosomal polymorphisms in *Belgica antarctica* larvae analyzed in different studies. The confidence interval, generated from Clopper-Pearson's test (at a confidence level of 0.95), is indicated in parentheses after the frequencies.

Location	N	Inversions frequencies			Study
		Chromosome II: A	Chromosome II: B	Chromosome III: C	
Cormorat Island AA1	58	0.379 (0.255, 0.516)	0.224 (0.125, 0.353)	0.069 (0.0191, 0.167)	Atchley & Davis 1979
Limitrophe Island AC1	66	0.439 (0.317, 0.567)	0.394 (0.276, 0.522)	0.073 (0.0235, 0.164)	Atchley & Davis 1979
Hermit Island AE1	63	0.444 (0.319, 0.575)	0.492 (0.364, 0.621)	0.254 (0.153, 0.379)	Atchley & Davis 1979
Ikes Island AF1	44	0.523 (0.367, 0.676)	0.409 (0.263, 0.567)	0.136 (0.0515, 0.273)	Atchley & Davis 1979
Shortcut Island AG1	49	0.571 (0.422, 0.711)	0.367 (0.234, 0.517)	0.061 (0.0127, 0.168)	Atchley & Davis 1979
Shortcut Island AG2	77	0.571 (0.453, 0.683)	0.377 (0.269, 0.495)	0.078 (0.0292, 0.162)	Atchley & Davis 1979
Bonapart Point AJ1	93	0.613 (0.506, 0.712)	0.247 (0.163, 0.347)	0 (0, 0.0389)	Atchley & Davis 1979
Bonapart Point AJ3	82	0.524 (0.411, 0.636)	0.317 (0.219, 0.429)	0.061 (0.0201, 0.137)	Atchley & Davis 1979
Bonapart Point AJ4	64	0.513 (0.402, 0.657)	0.438 (0.314, 0.568)	0.047 (0.00983, 0.131)	Atchley & Davis 1979
Norsal Pont AM1	55	0.618 (0.477, 0.746)	0.2 (0.104, 0.33)	0.2 (0.104, 0.33)	Atchley & Davis 1979
Norsal Pont AM5	72	0.542 (0.42, 0.66)	0.306 (0.203, 0.426)	0.431 (0.315, 0.553)	Atchley & Davis 1979
Norsal Pont AM6	68	0.529 (0.404, 0.651)	0.235 (0.141, 0.353)	0 (0, 0.0528)	Atchley & Davis 1979
Litchfield Island AO1	70	0.514 (0.391, 0.635)	0.443 (0.324, 0.567)	0.314 (0.208, 0.436)	Atchley & Davis 1979
Litchfield Island AO4	66	0.53 (0.403, 0.654)	0.288 (0.183, 0.413)	0.121 (0.0537, 0.225)	Atchley & Davis 1979
Litchfield Island AO5	62	0.452 (0.325, 0.584)	0.5 (0.37, 0.63)	0.258 (0.155, 0.385)	Atchley & Davis 1979
Litchfield Island AO6	101	0.505 (0.404, 0.606)	0.535 (0.433, 0.635)	0.02 (0.00247, 0.07)	Atchley & Davis 1979
Strandtmann Island AP1	43	0.419 (0.27, 0.579)	0.512 (0.355, 0.667)	0.372 (0.23, 0.533)	Atchley & Davis 1979
Port Lockroy	49	0.551 (0.402, 0.693)	0.592 (0.442, 0.73)	0.041 (0.00504, 0.14)	Atchley & Davis 1979
Gonzalez Videla Base (Danco Coast)	81	0 (0, 0.0445)	0 (0, 0.0445)	0.037 (0.00769, 0.104)	Martin 1962
Near Port Lockroy	8	0.625 (0.245, 0.915)	0.5 (0.157, 0.843)	0 (0, 0.369)	Michailova <i>et al.</i> 2021
Galindez Island 1 (1350)	35	0.2 (0.0844, 0.369)	0.1143 (0.032, 0.267)	0 (0, 0.1)	Current
Galindez Island 2 (1350)	31	0.4516 (0.273, 0.64)	0.2581 (0.119, 0.446)	0.0323 (0.000821, 0.167)	Current
Kruskal-Wallis p-value		0.062	0.127	0.185	