

Figure S4. Accession number table for 28S+COI phylogeny (Fig. 9), after Maturana *et al.* 2021.

Concatenations from this study are in bold at the beginning of the table and the concatenation excluded from this study is highlighted in red (Hap_19).

Species	Haplotype after Maturana <i>et al.</i> 2021	Locality	NCBI accessions	
			COI	28S
<i>Boeckella spinogibba</i>	This study M156	New Caledonia	OQ117983.1	OR612785.1
<i>Boeckella sibleti</i> nov. sp.	This study M223	New Caledonia	OQ118045.1	OR612784.1
<i>Boeckella brasiliensis</i>	Hap_106	Patagonia	MZ757054.2	MZ773003.1
	Hap_90	Patagonia	MZ757055.2	MZ772978.1
<i>Boeckella vallentini</i>	Hap_107	Crozet Islands	MZ757051.1	MZ772977.1
	Hap_108	Kerguelen Islands	MZ757026.3	MZ772986.1
	Hap_109	Kerguelen Islands	MZ757027.3	MZ772986.1
<i>Boeckella poppei</i> (clade i)	Hap_111	South Shetland Islands	OP547788.1	MN088122.1
	Hap_112	Signy Island	OP547854.1	MN088122.1
	Hap_117	South Georgia	OP547806.1	MN088122.1
	Hap_116	South Georgia	OP547805.1	MN088122.1
	Hap_115	Antarctic Peninsula	OP547791.1	MN088122.1
	Hap_113	Patagonia	OP547831.1	OP547503.1
<i>Boeckella poppei</i> (clade ii)	Hap_120	Falkland	MZ757074.1	MZ772979.1
	Hap_123	Patagonia	MZ757076.1	MN088122.1
	Hap_126	Patagonia	MZ757028.2	MZ772982.2
<i>Boeckella poppei</i> (clade iii)	HpIH02	Hornos Island	MZ757030.1	MZ772983.1
	HpIH04	Hornos Island	MZ757031.1	MZ772981.1
<i>Boeckella poopuensis</i>	Hap_16	South Argentina	MZ757028.1	GU049746.1
<i>Boeckella bergi</i>	Hap_18	South Argentina	DQ356543.1	GU049735.1
<i>Boeckella antiqua</i>	Hap_129	Patagonia	MZ757053.1	GU049733.1
<i>Boeckella meteoris</i>	Hap_38	Patagonia	MZ757063.2	GU049738.1
	Hap_41	Patagonia	MZ757066.2	MZ772998.1
	Hap_47	Patagonia	MZ757035.1	GU049738.1
	Hap_52	Magallanes	MZ757077.2	GU049738.1
<i>Boeckella michaelsoni</i>	Hap_6	Tierra del Fuego	MZ757026.1	GU049742.1
<i>Boeckella brevicaudata</i>	Hap_22	Navarino Island	MZ757047.2	MZ773000.1
	Hap_26	Navarino Island	MZ757051.2	MZ772999.1
	Hap_19	Kerguelen Islands	MZ757027.3	MZ772985.1
<i>Boeckella pseudocheilae</i>	Hap_68	Australia	MZ757046.1	MZ772992.1
<i>Boeckella symmetrica</i>	Hap_70	New Zealand	MZ757081.1	MZ772995.1
<i>Boeckella triarticulata</i>	Hap_71	Australia	MZ757082.1	MZ772994.1
<i>Boeckella triarticulata</i>	Hap_74	Australia	MZ757083.1	GU049755.1
<i>Boeckella triarticulata</i>	Hap_72	Australia	MZ757084.1	GU049756.1
<i>Boeckella fluvialis</i>	Hap_75	Australia	MZ757086.1	GU049753.1

<i>Boeckella fluviialis</i>	Hap_76	Australia	MZ757087.1	MZ772989.1
<i>Boeckella propinqua</i>	Hap_80	New Zealand	MZ757091.1	MZ772993.1
<i>Boeckella tanea</i>	Hap_84	New Zealand	MZ757095.1	MZ772996.1
<i>Boeckella hamata</i>	Hap_78	New Zealand	MZ757089.1	MZ772990.1
<i>Parabroteas sarsi</i>	Hap_1	Argentina	DQ356574.1	GU049767.1
<i>Calamoecia ampulla</i>	Hap_5	Australia	JX436336.1	GU049758.1