

TABLE S1 | Sampling sites used in the genetic analysis and other known localities of *Cnesterodon hypsilurus*, including elevation in meters above sea level, vouchers, haplotypes and Genbank accession numbers. *N* = number of individuals used in the genetic analysis, *N_d* - number of individuals deposited in the museum collection.¹Samples collected during the present study; ²Samples provided by Museu de Zoologia, Universidade Estadual de Londrina (MZUEL); ³Silva *et al.* (2015); ⁴Lucinda, Garavello (2001); ⁵Shibatta *et al.* (2002); ⁶Lucinda (2003); ⁷Lucinda (2005); ⁸Lucinda, Reis (2005); ⁹Langeani *et al.* (2007); ¹⁰Meredith *et al.* (2010); ¹¹Pollux *et al.* (2014); ¹²CRIA (2022). DZSJRP = Departamento de Zoologia e Botânica, Universidade Estadual Paulista “Júlio de Mesquita Filho”, São José do Rio Preto; MCP = Museu de Ciências e Tecnologia, Pontifícia Universidade Católica do Rio Grande do Sul, Porto Alegre; MHNCI = Museu de História Natural Capão da Imbuia, Curitiba; MZUSP = Museu de Zoologia, Universidade de São Paulo, São Paulo; NUP = Coleção Ictiológica do Núcleo de Pesquisas em Limnologia, Ictiologia e Aquicultura, Universidade Estadual de Maringá, Maringá; UMMZ = University of Michigan, Museum of Zoology, Michigan; UFRGS = Departamento de Zoologia, Instituto de Biociências, Universidade Federal do Rio Grande do Sul, Porto Alegre; USNM = Smithsonian Institution, National Museum of Natural History, Washington D.C.

Locality	Drainage	Municipality	Geographic coordinates	Altitude	<i>N</i>	Catalog number (<i>N_d</i>)	Haplotype	Genbank accession number	
Unnamed stream	Cinzas	Jaguariaíva	24°13'45.10"S 49°56'49.10"W	746 m	30	MZUEL 22693 (6) ¹			
							Ind 1-	H1	OP583660
							Ind 2-	H1	OP583660
							Ind 3-	H1	OP583660
							Ind 4-	H2	OP583661
							Ind 5-	H1	OP583660
							Ind 6-	H3	OP583662
Lambari stream	Itararé	Jaguariaíva	24°22'24.28"S 49°50'23.47"W	1,136 m	20	MZUEL 22694 (16) ¹			
							Ind 1-	H2	OP583661
							Ind 2-	H1	OP583660
							Ind 3-	H2	OP583661
							Ind 4-	H3	OP583662
							Ind 5-	H3	OP583662
							Ind 6-	H1	OP583660
							Ind 7-	H1	OP583660
							Ind 8-	H1	OP583660
							Ind 9-	H1	OP583660
							Ind 10-	H1	OP583660
							Ind 11-	H1	OP583660
							Ind 12-	H1	OP583660
							Ind 13-	H1	OP583660
							Ind 14-	H1	OP583660
							Ind 15-	H1	OP583660
							Ind 16-	H1	OP583660
Pedrinhas stream	Itararé	Jaguariaíva	24°24'20.00"S 49°45'0.86"W	938 m	5	MZUEL 15264 (5) ²			
							Ind 1-	H6	OP583665
							Ind 2-	H6	OP583665
							Ind 3-	H1	OP583660
							Ind 4-	H1	OP583660
							Ind 5-	H1	OP583660
Guaricanga stream	Tibagi	Piraí do Sul	24°25'60.00"S 50°01'60.00"W	1,110 m	2	MZUEL 14641 (2) ²			
							Ind 3-	H4	OP583663
							Ind 4-	H5	OP583664
Lambari Stream	Itararé	Jaguariaíva	24°22'24.28"S 49°50'23.47"W	1,136 m		MCP 12602 (7) ^{4,7} , MCP 22745 (5) ^{4,7} , MHNCI 5892 (3) ^{4,7}			
Cinco Reis River	Itararé	Jaguariaíva	24°17'27.70"S 49°44'54.30"W	941 m		MZUSP 85936.0 (3) ¹²			
Cilada River ^{10,11}	Itararé	Jaguariaíva	24°19'58.03"S 49°47'30.22"W	1,078 m		MCP 12593 (31) ^{4,7,8} , MCP 22743 (1) ^{1,6,7,9} , MCP 22744 (9) ^{4,7,8} , MHNCI 5890 (10) ^{4,7} , UMMZ 215219 (20) ^{4,7} , USNM 356395 (2) ^{4,7} , MZUEL 1728 (122) ^{4,7} , MZUSP 85935.0 (100) ¹² UFRGS 18402 (32) ¹²			
Guaricanga River tributary ⁵	Tibagi	Piraí do Sul	24°25'60.00"S 50°01'60.00"W	1,110 m		MZUEL 1600 (14) ^{4,7} , MZUEL 1727 (10) ^{4,7} , MCP 23326 (10) ⁷			

TABLE S1 | (Continued)

Locality	Drainage	Municipality	Geographic coordinates	Altitude	N	Catalog number (N_d)	Haplotype	Genbank accession number
Arroio do Gica stream	Tibagi	Telêmaco Borba	24°12'32.78"S 50°36'35.65"W	728 m		MZUEL 12640 (14) ³ , MZUEL 12699 (14) ³ , MZUEL 12752 (6) ³ , MZUEL 12798 (4) ³		
Pitangui River tributary	Tibagi	Carambeí	24°52'16.00"S 50°14'10.00"W	861 m		NUP 15828 (6) ¹²		
Verde River tributary	Tibagi	Ponta Grossa	25°03'04.00"S 50°06'11.02"W	904 m		DZSJRP 20376 (168) ¹²		
Lajeado Maria Leme stream	Tibagi	Castro	24°45'34.00"S 50°11'60.00"W	1,102 m		NUP 15659 (10) ¹²		

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