

TABLE S2 | GenBank accession numbers of *mt-co1* sequences. Vouchers with an asterisk indicate examined specimens. GM: Gulf of Mexico, NEP: Northeastern Pacific, NWA: Northwestern Atlantic, SEP: Southeastern Pacific, SWA: Southwestern Atlantic.

Species ID in GenBank	Species ID after this study	Ocean Basin	Sampling location	Voucher	GenBank accession number
<i>Hypanus americanus</i>	<i>H. aff. americanus</i>	GM	Iztapalapa, Mexico	-	MG837920
<i>H. americanus</i>	<i>H. americanus</i>	GM	Mexico	-	HQ575830
<i>H. americanus</i>	<i>H. americanus</i>	NWA	North Carolina, USA	USNM 433102*	KT075327
<i>H. americanus</i>	<i>H. americanus</i>	GM	Iztapalapa, Mexico	-	MG837921
<i>H. americanus</i>	<i>H. americanus</i>	GM	Iztapalapa, Mexico	-	MG837922
<i>H. americanus</i>	<i>H. americanus</i>	GM	Iztapalapa, Mexico	-	MG837924
<i>H. americanus</i>	<i>H. americanus</i>	GM	Iztapalapa, Mexico	-	MG837925
<i>H. americanus</i>	<i>H. americanus</i>	GM	Puebla, Mexico	-	MN869871
<i>H. americanus</i>	<i>H. americanus</i>	NWA	North Carolina, USA	USNM 433338*	MH378683
<i>H. americanus</i>	<i>H. americanus</i>	NWA	North Carolina, USA	USNM 433339*	MH378684
<i>H. americanus</i>	<i>H. americanus</i>	NWA	Chesapeake Bay, Virginia, USA	USNM 425172	MT455314
<i>H. americanus</i>	<i>H. americanus</i>	NWA	Chesapeake Bay, Virginia, USA	USNM 438857	MT455606
<i>H. americanus</i>	<i>H. americanus</i>	NWA	Chesapeake Bay, Virginia, USA	USNM 425170	MT455626
<i>H. americanus</i>	<i>H. americanus</i>	NWA	Chesapeake Bay, Virginia, USA	USNM 431134	MT455963
<i>H. americanus</i>	<i>H. americanus</i>	NWA	Chesapeake Bay, Virginia, USA	USNM 425182	MT456265
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Southeastern Brazil	-	MK085594
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Southeastern Brazil	-	MK085604
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Southeastern Brazil	-	MK085629
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Southeastern Brazil	-	MK085636
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Southeastern Brazil	-	MK085638
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Southeastern Brazil	-	MK085641
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Southeastern Brazil	-	MK085657
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Southeastern Brazil	-	MK085659
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Southeastern Brazil	-	MK085662
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Southeastern Brazil	-	MK085669
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Southeastern Brazil	-	MK085672
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Southeastern Brazil	-	MK085684
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Southeastern Brazil	-	MK085742
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Bragança, Pará, Brazil	-	MN105805
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Bragança, Pará, Brazil	-	MN105821
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Bragança, Pará, Brazil	-	MN105822
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Bragança, Pará, Brazil	-	MN105823
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Bragança, Pará, Brazil	-	MN105824
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Bragança, Pará, Brazil	-	MN105839
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Belém, Pará, Brazil	-	MN105842
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Belém, Pará, Brazil	-	MN105845
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Belém, Pará, Brazil	-	MN105846
<i>H. americanus</i>	<i>H. berthaltutae</i>	SWA	Belém, Pará, Brazil	-	MN105847
<i>H. dipterurus</i>	<i>H. dipterurus</i>	NEP	California, USA	-	GU440302
<i>H. dipterurus</i>	<i>H. dipterurus</i>	SEP	Peru	-	MH194454
<i>Fontitrygon geijskesi</i>	<i>Hypanus geijskesi</i>	SWA	Bragança, Pará, Brazil	Zoo. Coll. UFRA	MN105749
<i>F. geijskesi</i>	<i>H. geijskesi</i>	SWA	Bragança, Pará, Brazil	-	MN105812
<i>F. geijskesi</i>	<i>H. geijskesi</i>	SWA	Bragança, Pará, Brazil	-	MN105813
<i>F. geijskesi</i>	<i>H. geijskesi</i>	SWA	Bragança, Pará, Brazil	-	MN105819
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Ubatuba, São Paulo, Brazil	-	JX034000
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Santos, São Paulo, Brazil	-	KJ719467
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Southeastern Brazil	-	MK085615
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Southeastern Brazil	-	MK085651
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Southeastern Brazil	-	MK085652
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Southeastern Brazil	-	MK085654

TABLE S2 | (Continued)

Species ID in GenBank	Species ID after this study	Ocean Basin	Sampling location	Voucher	GenBank accession number
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Southeastern Brazil	-	MK085655
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Southeastern Brazil	-	MK085656
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Southeastern Brazil	-	MK085658
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Southeastern Brazil	-	MK085667
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Southeastern Brazil	-	MK085670
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Southeastern Brazil	-	MK085704
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Ubatuba, São Paulo, Brazil	LBPV 53052	MN105788
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105789
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Amapá, Brazil	-	MN105790
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Amapá, Brazil	-	MN105791
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Amapá, Brazil	-	MN105792
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Amapá, Brazil	-	MN105793
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Amapá, Brazil	-	MN105794
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Amapá, Brazil	-	MN105795
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Amapá, Brazil	-	MN105796
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105797
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105798
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105799
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105800
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105801
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105802
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105803
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105804
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105806
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105807
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105808
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105809
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105810
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105811
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105814
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105815
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105816
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105817
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105818
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105820
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Belém, Pará, Brazil, PA	-	MN105844
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Belém, Pará, Brazil, PA	-	MN105848
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Belém, Pará, Brazil, PA	-	MN105849
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Belém, Pará, Brazil, PA	-	MN105850
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Belém, Pará, Brazil, PA	-	MN105851
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Belém, Pará, Brazil, PA	-	MN105852
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Vigia, Pará, Brazil	-	MN105869
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Vigia, Pará, Brazil	-	MN105870
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Vigia, Pará, Brazil	-	MN105871
<i>H. guttatus</i>	<i>H. guttatus</i>	SWA	Bragança, Pará, Brazil	-	MN105875
<i>H. sabinus</i>	<i>H. sabinus</i>	GM	Mexico	MXIV 0835	HQ573294
<i>H. sabinus</i>	<i>H. sabinus</i>	GM	Alabama, USA	NAFF 3280	JN025277
<i>H. sabinus</i>	<i>H. sabinus</i>	NWA	Maryland, USA	USNM 426256*	MT455431
<i>H. sabinus</i>	<i>H. sabinus</i>	NWA	Virginia, USA	USNM 425181	MT455481
<i>H. sabinus</i>	<i>H. sabinus</i>	NWA	Virginia, USA	USNM 431125	MT455746
<i>H. sabinus</i>	<i>H. sabinus</i>	NWA	North Carolina, USA	USNM 444702	MT455952



TABLE S2 | (Continued)

Species ID in GenBank	Species ID after this study	Ocean Basin	Sampling location	Voucher	GenBank accession number
<i>H. sabinus</i>	<i>H. sabinus</i>	NWA	Maryland, USA	USNM 426251	MT456008
<i>H. sabinus</i>	<i>H. sabinus</i>	NWA	Maryland, USA	USNM 426255	MT456193
<i>H. sabinus</i>	<i>H. sabinus</i>	GM	Alabama, USA	-	KF461169
<i>H. say</i>	<i>H. say</i>	NWA	Virginia, USA	USNM 433289*	MH378605
<i>H. say</i>	<i>H. say</i>	NWA	East of Pamlico Sound, North Carolina, USA	USNM 433230	MH378678
<i>H. say</i>	<i>H. say</i>	NWA	East of Pamlico Sound, North Carolina, USA	USNM 433243	MH378679
<i>H. say</i>	<i>H. say</i>	NWA	Chesapeake Bay, Virginia, USA	-	MN883244
<i>H. say</i>	<i>H. say</i>	NWA	Chesapeake Bay, Virginia, USA	-	MN883245
<i>H. say</i>	<i>H. say</i>	NWA	New Jersey, USA	-	MN883246
<i>H. say</i>	<i>H. say</i>	NWA	Chesapeake Bay, Virginia, USA	USNM 431124	MT455026
<i>H. say</i>	<i>H. say</i>	NWA	Chesapeake Bay, Virginia, USA	USNM 431102	MT455087
<i>H. say</i>	<i>H. say</i>	NWA	Chesapeake Bay, Virginia, USA	USNM 431123	MT455313
<i>H. say</i>	<i>H. say</i>	NWA	Chesapeake Bay, Virginia, USA	USNM 431101	MT455730
<i>H. say</i>	<i>H. say</i>	NWA	Chesapeake Bay, Virginia, USA	USNM 431122	MT455779
<i>H. say</i>	<i>H. say</i>	NWA	Chesapeake Bay, Virginia, USA	USNM 425188	MT455805
<i>H. say</i>	<i>H. say</i>	NWA	Chesapeake Bay, Virginia, USA	USNM 431120	MT456178

Neotropical Ichthyology

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