

The following supplement accompanies the article

Local and regional ecological drivers of fish assemblages in Brazilian estuaries

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Supplement. List of species included in the present study and species accumulation curves for the 5 sampled estuaries along the Brazilian coast.

Table S1. List of species caught in the 5 sampled estuaries along the Brazilian coast. ‘+’ indicates presence in an estuary and gaps indicate absence

Family	Species	Curuçá	Santa Cruz	Piraquê-Açú	Paranaguá	Lagoa dos Patos
Achiridae	<i>Achirus achirus</i> (Linnaeus, 1758)	+	+			
	<i>Achirus declivis</i> Chabanaud, 1940		+	+		
	<i>Achirus lineatus</i> (Linnaeus, 1758)	+	+	+	+	
	<i>Apionichthys dumerili</i> Kaup, 1858	+				
	<i>Catathyridium garmani</i> (Jordan, 1889)					+
	<i>Trinectes maculatus</i> (Bloch & Schneider, 1801)		+			
	<i>Trinectes microphthalmus</i> (Chabanaud, 1928)			+		
	<i>Trinectes paulistanus</i> (Miranda-Ribeiro, 1915)	+			+	
Antennariidae	<i>Antennarius striatus</i> (Shaw, 1794)			+		
Ariidae	<i>Amphiarus rugispinis</i> (Valenciennes, 1840)	+				
	<i>Aspistor quadriscutis</i> (Valenciennes, 1840)	+				
	<i>Bagre bagre</i> (Linnaeus, 1766)	+				
	<i>Bagre marinus</i> (Mitchill, 1815)		+			
	<i>Cathorops agassizii</i> (Eigenmann & Eigenmann, 1888)	+				
	<i>Cathorops spixii</i> (Agassiz, 1829)	+			+	
	<i>Genidens barbatus</i> Lacepède, 1803				+	+
	<i>Genidens genidens</i> (Valenciennes, 1839)			+	+	+
	<i>Notarius luniscutis</i> (Valenciennes, 1840)				+	
	<i>Sciades herzbergii</i> (Bloch, 1794)	+				
Aspredinidae	<i>Aspredinichthys tibicen</i> (Valenciennes, 1840)	+				
Atherinopsidae	<i>Atherinella brasiliensis</i> (Quoy & Gaimard, 1825)		+			+
	<i>Odontesthes argentinensis</i> (Valenciennes, 1835)					+
Auchenipteridae	<i>Pseudauchenipterus nodosus</i> (Bloch, 1794)	+				
Batrachoididae	<i>Batrachoides surinamensis</i> (Bloch & Schneider, 1801)	+				

		<i>Porichthys porosissimus</i> (Cuvier, 1829)							+
		<i>Thalassophryne montevidensis</i> (Berg, 1893)							+
		<i>Thalassophryne nattereri</i> Steindachner, 1876	+						+
Bothidae		<i>Bothus ocellatus</i> (Agassiz, 1831)							+
Carangidae		<i>Caranx hippos</i> (Linnaeus, 1766)							+
		<i>Caranx latus</i> Agassiz, 1831							+
		<i>Chloroscombrus chrysurus</i> (Linnaeus, 1766)	+						+
		<i>Oligoplites saliens</i> (Bloch, 1793)							+
		<i>Oligoplites saurus</i> (Bloch & Schneider, 1801)	+						
		<i>Selene setapinnis</i> (Mitchill, 1815)							+
		<i>Selene vomer</i> (Linnaeus, 1758)	+						+
		<i>Trachinotus carolinus</i> (Linnaeus, 1766)							+
		<i>Trachinotus marginatus</i> Cuvier, 1832							+
		<i>Uraspis secunda</i> (Poey, 1860)							+
Centropomidae		<i>Centropomus parallelus</i> Poey, 1860							+
		<i>Centropomus pectinatus</i> Poey, 1860	+						
		<i>Centropomus undecimalis</i> (Bloch, 1792)	+						+
Characidae		<i>Charax stenopterus</i> (Cope, 1894)							+
Cichlidae		<i>Geophagus brasiliensis</i> (Quoy & Gaimard, 1824)							+
Clupeidae		<i>Brevoortia pectinata</i> (Jenyns, 1842)							+
		<i>Harengula clupeola</i> (Cuvier, 1829)							+
		<i>Lile piquitinga</i> (Schreiner & Miranda-Ribeiro, 1903)							+
		<i>Opisthonema oglinum</i> (Lesueur, 1818)							+
		<i>Platanichthys platana</i> (Regan, 1917)							+
		<i>Rhinocardinia amazonica</i> (Steindachner, 1879)	+						
		<i>Sardinella brasiliensis</i> (Steindachner, 1879)							+
Curimatidae		<i>Cyphocharax voga</i> (Hensel, 1870)							+
Cynoglossidae		<i>Symphurus jenynsi</i> Evermann & Kendall, 1906							+
		<i>Symphurus plagusia</i> (Bloch & Schneider, 1801)	+						+

	<i>Symphurus tessellatus</i> (Quoy & Gaimard, 1824)				+		+	
Dactylopteridae	<i>Dactylopterus volitans</i> (Linnaeus, 1758)							+
Dasyatidae	<i>Dasyatis guttata</i> (Bloch & Schneider, 1801)	+	+		+			+
Diodontidae	<i>Chilomycterus spinosus</i> (Linnaeus, 1758)				+			+
Echeneidae	<i>Echeneis naucrates</i> Linnaeus, 1758	+	+					
Eleotridae	<i>Butis koilomatodon</i> (Bleeker, 1849)	+				+		
	<i>Dormitator maculatus</i> (Bloch, 1790)							+
Engraulidae	<i>Anchoa filifera</i> (Fowler, 1915)					+		
	<i>Anchoa hepsetus</i> (Linnaeus, 1758)	+						
	<i>Anchoa januaria</i> (Steindachner, 1879)					+		+
	<i>Anchoa marinii</i> Hildebrand, 1943							+
	<i>Anchoa spinifer</i> (Valenciennes, 1848)	+						
	<i>Anchoa tricolor</i> (Agassiz, 1829)					+		+
	<i>Anchovia clupeioides</i> (Swainson, 1839)	+	+			+		
	<i>Anchoviella cayennensis</i> (Puyo, 1946)	+						
	<i>Anchoviella guianensis</i> (Eigenmann, 1912)	+						
	<i>Anchoviella lepidentostole</i> (Fowler, 1911)	+				+		
	<i>Cetengraulis edentulus</i> (Cuvier, 1829)	+				+		+
	<i>Lycengraulis grossidens</i> (Agassiz, 1829)	+	+					+
	<i>Pterengraulis atherinoides</i> (Linnaeus, 1766)	+						
Ephippidae	<i>Chaetodipterus faber</i> (Broussonet, 1782)	+	+			+		+
Epinephelidae	<i>Epinephelus itajara</i> (Lichtenstein, 1822)	+						
	<i>Mycteroperca bonaci</i> (Poey, 1860)					+		
Erythrinidae	<i>Hoplais malabaricus</i> (Bloch, 1794)							+
Fistulariidae	<i>Fistularia petimba</i> Lacepède, 1803					+		
	<i>Fistularia tabacaria</i> Linnaeus, 1758						+	
Gerreidae	<i>Diapterus auratus</i> Ranzani, 1842	+	+			+		
	<i>Diapterus rhombeus</i> (Cuvier, 1829)	+	+			+		+
	<i>Eucinostomus argenteus</i> Baird & Girard, 1855					+		+
	<i>Eucinostomus gula</i> (Quoy & Gaimard, 1824)	+				+		+

	<i>Eucinostomus melanopterus</i> (Bleeker, 1863)	+	+	+	+
	<i>Eugerres brasiliensis</i> (Cuvier, 1830)		+	+	
	<i>Ulaema lefroyi</i> (Goode, 1874)				+
Gobiidae	<i>Bathygobius soporator</i> (Valenciennes, 1837)				+
	<i>Ctenogobius boleosoma</i> (Jordan & Gilbert, 1882)		+	+	
	<i>Ctenogobius shufeldti</i> (Jordan & Eigenmann, 1887)				+
	<i>Ctenogobius smaragdus</i> (Valenciennes, 1837)		+		+
	<i>Ctenogobius stigmaticus</i> (Poey, 1861)			+	
	<i>Gobionellus oceanicus</i> (Pallas, 1770)	+	+		+
	<i>Gobionellus stomatus</i> Starks, 1913		+	+	
	<i>Microgobius meeki</i> Evermann & Marsh, 1900			+	+
Gymnuridae	<i>Gymnura micrura</i> (Bloch & Schneider, 1801)	+			
Haemulidae	<i>Genyatremus luteus</i> (Bloch, 1790)	+	+		+
	<i>Haemulon aurolineatum</i> Cuvier, 1830		+		
	<i>Haemulon parra</i> (Desmarest, 1823)		+		
	<i>Orthopristis ruber</i> (Cuvier, 1830)				+
	<i>Pomadasys corvinaeformis</i> (Steindachner, 1868)		+		+
	<i>Pomadasys crocro</i> (Cuvier, 1830)			+	
Lutjanidae	<i>Lutjanus analis</i> (Cuvier, 1828)		+	+	
	<i>Lutjanus alexandrei</i> Moura & Lindeman, 2007		+		
	<i>Lutjanus jocu</i> (Bloch & Schneider, 1801)	+	+	+	
	<i>Lutjanus synagris</i> (Linnaeus, 1758)		+	+	
	<i>Ocyurus chrysurus</i> (Bloch, 1791)		+		
Monacanthidae	<i>Stephanolepis hispidus</i> (Linnaeus, 1758)			+	+
Mugilidae	<i>Mugil curema</i> Valenciennes, 1836	+	+	+	
	<i>Mugil</i> sp.	+			
	<i>Mugil liza</i> Valenciennes, 1836				+
Muraenidae	<i>Gymnothorax funebris</i> Ranzani, 1840			+	
	<i>Gymnothorax ocellatus</i> Agassiz, 1831			+	

Narcinidae	<i>Narcine brasiliensis</i> (Olfers, 1831)		+	+		
Ogcocephalidae	<i>Ogcocephalus nasutus</i> (Cuvier, 1829)	+				
	<i>Ogcocephalus notatus</i> (Valenciennes, 1837)				+	
	<i>Ogcocephalus vespertilio</i> (Linnaeus, 1758)				+	
Ophichthidae	<i>Myrichthys ocellatus</i> (Lesueur, 1825)		+			
	<i>Ophichthus cylindroideus</i> (Ranzani, 1839)	+				
	<i>Ophichthus gomesii</i> (Castelnau, 1855)				+	+
Paralichthyidae	<i>Citharichthys arenaceus</i> Evermann & Marsh, 1902				+	+
	<i>Citharichthys macrops</i> Dresel, 1889		+		+	
	<i>Citharichthys spilopterus</i> Günther, 1862	+			+	+
	<i>Etopus crossotus</i> Jordan & Gilbert, 1882		+		+	+
	<i>Paralichthys brasiliensis</i> (Ranzani, 1840)				+	
	<i>Paralichthys orbignyana</i> (Valenciennes, 1839)					+
	<i>Syacium micrurum</i> Ranzani, 1840				+	
	<i>Syacium papillosum</i> (Linnaeus, 1758)				+	
Percophidae	<i>Percophis brasiliensis</i> Quoy & Gaimard, 1825					+
Pimelodidae	<i>Brachyplatystoma filamentosum</i> (Lichtenstein, 1819)	+				
	<i>Parapimelodus nigribarbis</i> (Boulenger, 1889)					+
	<i>Pimelodus maculatus</i> Lacepède, 1803					+
Polynemidae	<i>Polydactylus virginicus</i> (Linnaeus, 1758)		+			
Pomatomidae	<i>Pomatomus saltatrix</i> (Linnaeus, 1766)					+
Pristigasteridae	<i>Chirocentrodon bleekermanus</i> (Poey, 1867)		+			+
	<i>Odontognathus mucronatus</i> Lacepède, 1800	+				
	<i>Pellona harroweri</i> (Fowler, 1917)	+			+	+
Rhinobatidae	<i>Rhinobatos percellens</i> (Walbaum, 1792)		+		+	+
Scaridae	<i>Sparisoma radians</i> (Valenciennes, 1840)		+			
Sciaenidae	<i>Bairdiella ronchus</i> (Cuvier, 1830)		+		+	
	<i>Ctenosciaena gracilicirrhus</i> (Metzelaar, 1919)					+
	<i>Cynoscion acoupa</i> (Lacepède, 1801)	+	+			

	<i>Cynoscion guatucupa</i> (Cuvier, 1830)										+
	<i>Cynoscion jamaicensis</i> (Vaillant & Bocourt, 1883)		+							+	
	<i>Cynoscion leiarchus</i> (Cuvier, 1830)		+		+					+	
	<i>Cynoscion microlepidotus</i> (Cuvier, 1830)		+							+	
	<i>Cynoscion striatus</i> (Cuvier, 1829)									+	
	<i>Isopisthus parvipinnis</i> (Cuvier, 1830)		+							+	
	<i>Larimus breviceps</i> (Cuvier, 1830)									+	
	<i>Macrodon ancylodon</i> (Bloch & Schneider, 1801)		+							+	
	<i>Macrodon atricauda</i> (Günther, 1880)										+
	<i>Menticirrhus americanus</i> (Linnaeus, 1758)		+							+	+
	<i>Micropogonias furnieri</i> (Desmarest, 1823)				+					+	+
	<i>Nebris microps</i> Cuvier, 1830									+	
	<i>Pogonias cromis</i> (Linnaeus, 1766)										+
	<i>Stellifer brasiliensis</i> (Schultz, 1945)									+	+
	<i>Stellifer microps</i> (Steindachner, 1864)		+		+						
	<i>Stellifer naso</i> (Jordan, 1889)		+								
	<i>Stellifer rastrifer</i> (Jordan, 1889)		+		+					+	+
	<i>Stellifer</i> sp.		+							+	
	<i>Stellifer stellifer</i> (Bloch, 1790)		+							+	
Scombridae	<i>Scomberomorus brasiliensis</i> Collette, Russo & Zavala-Camin, 1978		+								
Scorpaenidae	<i>Scorpaena brasiliensis</i> Cuvier, 1829				+					+	
	<i>Scorpaena plumieri</i> Bloch, 1789				+					+	
Serranidae	<i>Diplectrum radiale</i> (Quoy & Gaimard, 1824)									+	+
	<i>Rypticus randalli</i> Courtenay, 1967		+							+	+
	<i>Rypticus saponaceus</i> (Bloch & Schneider, 1801)				+						
	<i>Serranus flaviventris</i> (Cuvier, 1829)				+						
Sparidae	<i>Archosargus probatocephalus</i> (Walbaum, 1792)									+	
	<i>Archosargus rhomboidalis</i> (Linnaeus, 1758)				+					+	
Sphyraenidae	<i>Sphyraena barracuda</i> (Edwards, 1771)				+						

	<i>Sphyraena guachancho</i> Cuvier, 1829			+	+	
Stromateidae	<i>Peprilus paru</i> (Linnaeus, 1758)	+				
Syngnathidae	<i>Hippocampus reidi</i> Ginsburg, 1933	+		+	+	
	<i>Syngnathus folletti</i> Herald, 1942			+		+
	<i>Syngnathus pelagicus</i> Linnaeus, 1758		+			
Synodontidae	<i>Synodus foetens</i> (Linnaeus, 1766)		+	+	+	
Tetraodontidae	<i>Colomesus psittacus</i> (Bloch & Schneider, 1801)	+	+			
	<i>Lagocephalus laevigatus</i> (Linnaeus, 1766)	+		+	+	+
	<i>Lagocephalus lagocephalus</i> (Linnaeus, 1758)			+		
	<i>Sphoeroides greeleyi</i> Gilbert, 1900		+	+	+	
	<i>Sphoeroides spengleri</i> (Bloch, 1785)			+	+	
	<i>Sphoeroides testudineus</i> (Linnaeus, 1758)	+	+	+	+	
	Trichiuridae	<i>Trichiurus lepturus</i> Linnaeus, 1758	+		+	+
Triglidae	<i>Prionotus nudigula</i> Ginsburg, 1950				+	
	<i>Prionotus punctatus</i> (Bloch, 1793)		+	+	+	+
Total biomass (kg)		182.637	68.311	164.023	202.085	26.130
Number of species		70	73	82	60	37
Number of samples		111	31	204	91	112

Fig. S1. Species accumulation curves derived from 999 randomisations of samples collected in the 5 estuaries along the Brazilian coast

