

**TABLE S1** | Methods used for species collection included Underwater Visual Census (UVC), Baited Remote Underwater Video (BRUV), scientific bottom trawling operations carried out by the Cação Project, photographic records (PHO), personal observations (DGN, OBF, OBFG, ACSA), museum vouchers from Center for Research and Study in Chondrichthyes (NUPEC), and data sourced from the literature (Moura, 2002; Moura *et al.*, 2003; Pivetta *et al.*, 2012).

Family/Species	UVC (2015)	BRUV (2015)	BRUV (2017)	BRUV (2020–2021)	Cação Project (1996–2003)	“Viu Raia Project”	PHO	DGN OBS	OBFG OBS	ACSA OBS	Museum vouchers	Moura (2002)	Moura <i>et al.</i> (2003)	Pivetta <i>et al.</i> (2012)
<b>Rhincodontidae</b>														
<i>Rhincodon typus</i> Smith, 1828									X					
<b>Carchariidae</b>														
<i>Carcharias taurus</i> Rafinesque, 1810					X									
<b>Lamnidae</b>														
<i>Isurus oxyrinchus</i> Rafinesque, 1810									X					
<b>Carcharhinidae</b>														
<i>Carcharhinus brevipinna</i> (Valenciennes, 1839)					X									
<i>Carcharhinus falciformis</i> (Bibron, 1839)					X		X							
<i>Carcharhinus limbatus</i> (Valenciennes, 1839)					X		X							
<i>Carcharhinus obscurus</i> (Lesueur, 1818)					X									
<i>Carcharhinus plumbeus</i> (Nardo, 1827)									X					
<i>Rhizoprionodon lalandii</i> (Valenciennes, 1839)					X									
<i>Rhizoprionodon porosus</i> (Poey, 1861)					X									
<b>Galeoceridae</b>														
<i>Galeocerdo cuvier</i> (Péron & Lesueur, 1822)														
<b>Sphyrnidae</b>														
<i>Sphyrna lewini</i> (Griffith & Smith, 1834)					X									
<i>Sphyrna zygaena</i> (Linnaeus, 1758)					X									
<b>Squatinae</b>														
<i>Squatina guggenheim</i> Marini, 1936					X									
<b>Narcinidae</b>														
<i>Narcine brasiliensis</i> (Olfers, 1831)					X									
<b>Trygonorrhinidae</b>														
<i>Zapteryx brevirostris</i> (Müller & Henle, 1841)					X									
<b>Rhinobatidae</b>														
<i>Pseudobatos horkelii</i> (Müller & Henle, 1841)					X									
<i>Pseudobatos percellens</i> (Walbaum, 1792)			X											
<b>Dasyatidae</b>														
<i>Bathytoshia centroura</i> (Mitchill, 1815)						X			X					
<i>Hypanus berthelutzae</i> Petean, Naylor & Lima, 2020						X			X					
<i>Hypanus guttatus</i> (Bloch & Schneider, 1801)			X			X								
<i>Dasyatis hypostigma</i> Santos & Carvalho, 2004			X			X								

TABLE S1 | (Continued)

Family/Species	UVC (2015)	BRUV (2015)	BRUV (2017)	BRUV (2020–2021)	Caçõo Project (1996–2003)	“Viu Raia Project”	PHO	DGN OBS	OBFG OBS	ACSA OBS	Museum vouchers	Moura (2002)	Moura et al. (2003)	Pivetta et al. (2012)
<b>Gymnuridae</b>														
<i>Gymnura altavela</i> (Linnaeus, 1758)						X								
<b>Aetobatidae</b>														
<i>Aetobatus narinari</i> (Euphrasen, 1790)		X	X	X		X				X		X	X	
<b>Myliobatidae</b>														
<i>Myliobatis freminvillei</i> Lesueur, 1824						X			X					
<b>Rhinopterae</b>														
<i>Rhinoptera bonasus</i> (Mitchill, 1815)					X									
<i>Rhinoptera brasiliensis</i> Müller, 1836					X									
<b>Mobulidae</b>														
<i>Mobula birostris</i> (Walbaum, 1792)													X	
<i>Mobula hypostoma</i> (Bancroft, 1831)													X	
<i>Mobula thurstoni</i> (Lloyd, 1908)					X									
<b>Callorhynchidae</b>														
<i>Callorhynchus callorynchus</i> (Linnaeus, 1758)											X			
<b>Elopidae</b>														
<i>Elops smithi</i> McBride, Rocha, Ruiz-Carus & Bowen, 2010								X						
<b>Megalopidae</b>														
<i>Megalops atlanticus</i> Valenciennes, 1847							X							
<b>Muraenidae</b>														
<i>Gymnothorax funebris</i> Ranzani, 1839		X	X	X									X	
<i>Gymnothorax moringa</i> (Cuvier, 1829)		X	X	X								X	X	
<i>Gymnothorax ocellatus</i> Agassiz, 1831													X	
<i>Gymnothorax vicinus</i> (Castelnau, 1855)			X									X	X	
<b>Ophichthidae</b>														
<i>Myrichthys breviceps</i> (Richardson, 1848)													X	
<i>Myrichthys ocellatus</i> (Lesueur, 1825)	X											X	X	
<i>Ophichthus ophis</i> (Linnaeus, 1758)													X	
<b>Clupeidae</b>														
<i>Sardinella aurita</i> Valenciennes, 1847			X											
<b>Synodontidae</b>														
<i>Synodus foetens</i> (Linnaeus, 1766)		X										X	X	
<i>Synodus intermedius</i> (Spix & Agassiz, 1829)		X	X	X								X	X	X
<i>Synodus synodus</i> (Linnaeus, 1758)		X												



TABLE S1 | (Continued)

Family/Species	UVC (2015)	BRUV (2015)	BRUV (2017)	BRUV (2020–2021)	Cação Project (1996–2003)	“Viu Raia Project”	PHO	DGN OBS	OBFG OBS	ACSA OBS	Museum vouchers	Moura (2002)	Moura <i>et al.</i> (2003)	Pivetta <i>et al.</i> (2012)
<b>Holocentridae</b>														
<i>Holocentrus adscensionis</i> (Osbeck, 1765)		X	X	X			X	X				X	X	X
<i>Myripristis jacobus</i> Cuvier, 1829	X											X	X	
<i>Plectrypops retrospinis</i> (Guichenot, 1853)			X	X										
<b>Pomatomidae</b>														
<i>Pomatomus saltatrix</i> (Linnaeus, 1766)							X							
<b>Scombridae</b>														
<i>Katsuwonus pelamis</i> (Linnaeus, 1758)							X							
<i>Scomberomorus brasiliensis</i> Collette, Russo & Zavala-Camin, 1978				X										
<b>Trychiuridae</b>														
<i>Trichiurus lepturus</i> Linnaeus, 1758							X							
<b>Dactylopteridae</b>														
<i>Dactylopterus volitans</i> (Linnaeus, 1758)													X	
<b>Mullidae</b>														
<i>Pseudupeneus maculatus</i> (Bloch, 1793)		X	X	X								X	X	X
<b>Callionymidae</b>														
<i>Callionymus bairdi</i> Jordan, 1888	X													
<b>Syngnathidae</b>														
<i>Hippocampus erectus</i> Perry, 1810													X	X
<i>Hippocampus reidi</i> Ginsburg, 1933													X	
<b>Apogonidae</b>														
<i>Apogon americanus</i> Castelnau, 1855		X	X	X									X	
<i>Apogon quadrisquamatus</i> Longley, 1934													X	
<i>Apogon pseudomaculatus</i> Longley, 1932													X	
<b>Gobiidae</b>														
<i>Bathygobius soporator</i> (Valenciennes, 1837)													X	
<i>Coryphopterus dicrus</i> Böhlke & Robins, 1960												X	X	
<i>Coryphopterus glaucofraenum</i> Gill, 1863			X									X	X	
<i>Ctenogobius saepepallens</i> (Gilbert & Randall, 1968)													X	
<i>Elacatinus figaro</i> Sazima, Moura & Rosa, 1997	X	X	X	X								X	X	X
<i>Gnatholepis thompsoni</i> Jordan, 1904													X	
<i>Lythrypnus brasiliensis</i> Greenfield, 1988													X	
<i>Ptereleotris randalli</i> Gasparini, Rocha & Floeter, 2001	X												X	X



TABLE S1 | (Continued)

Family/Species	UVC (2015)	BRUV (2015)	BRUV (2017)	BRUV (2020–2021)	Cação Project (1996–2003)	“Viu Raia Project”	PHO	DGN OBS	OBFG OBS	ACSA OBS	Museum vouchers	Moura (2002)	Moura et al. (2003)	Pivetta et al. (2012)
<b>Centropomidae</b>														
<i>Centropomus undecimalis</i> (Bloch, 1792)							X							
<i>Centropomus</i> spp.												X		
<b>Sphyraenidae</b>														
<i>Sphyraena barracuda</i> (Edwards, 1771)													X	
<i>Sphyraena guachancho</i> Cuvier, 1829				X			X						X	
<b>Bothidae</b>														
<i>Bothus lunatus</i> (Linnaeus, 1758)													X	
<i>Bothus ocellatus</i> (Agassiz, 1831)			X									X	X	
<i>Bothus robinsi</i> Topp & Hoff, 1972				X										
<b>Xiphiidae</b>														
<i>Xiphias gladius</i> Linnaeus, 1758							X							
<b>Carangidae</b>														
<i>Alectis ciliaris</i> (Bloch, 1787)				X			X							
<i>Caranx bartholomaei</i> Cuvier, 1833	X	X	X	X									X	
<i>Caranx crysos</i> (Mitchill, 1815)		X	X	X			X					X	X	X
<i>Caranx hippos</i> (Linnaeus, 1766)							X							
<i>Caranx latus</i> Agassiz, 1831		X	X	X			X					X	X	
<i>Caranx lugubris</i> Poey, 1860							X							
<i>Caranx ruber</i> (Bloch, 1793)													X	
<i>Chloroscombrus chrysurus</i> (Linnaeus, 1766)				X								X		
<i>Decapterus macarellus</i> (Cuvier, 1833)			X											
<i>Decapterus punctatus</i> (Cuvier, 1829)	X													
<i>Elagatis bipinnulata</i> (Quoy & Gaimard, 1825)			X				X							
<i>Oligoplites</i> spp.				X										
<i>Pseudocaranx dentex</i> (Bloch & Schneider, 1801)			X	X								X	X	X
<i>Selene vomer</i> (Linnaeus, 1758)							X							
<i>Seriola dumerili</i> (Risso, 1810)	X		X				X						X	X
<i>Seriola fasciata</i> (Bloch, 1793)													X	
<i>Seriola lalandi</i> (Valenciennes, 1833)			X				X						X	
<i>Seriola rivoliana</i> Valenciennes, 1833		X	X	X									X	
<i>Trachinotus carolinus</i> (Linnaeus, 1766)							X							
<i>Trachinotus falcatus</i> (Linnaeus, 1758)							X							
<i>Trachinotus goodiei</i> Jordan & Evermann, 1896							X					X		



TABLE S1 | (Continued)

Family/Species	UVC (2015)	BRUV (2015)	BRUV (2017)	BRUV (2020–2021)	Cação Project (1996–2003)	“Viu Raia Project”	PHO	DGN OBS	OBFG OBS	ACSA OBS	Museum vouchers	Moura (2002)	Moura <i>et al.</i> (2003)	Pivetta <i>et al.</i> (2012)
<b>Rachycentridae</b>														
<i>Rachycentron canadum</i> (Linnaeus, 1766)				X									X	
<b>Coryphaenidae</b>														
<i>Coryphaena equiselis</i> Linnaeus, 1758							X							
<i>Coryphaena hippurus</i> Linnaeus, 1758							X							
<b>Pomacentridae</b>														
<i>Abudefduf saxatilis</i> (Linnaeus, 1758)		X	X	X				X		X		X	X	X
<i>Azurina multilineata</i> (Guichenot, 1853)	X	X	X	X				X					X	X
<i>Chromis flavicauda</i> (Günther, 1880)													X	
<i>Chromis jubauna</i> Moura, 1995	X	X	X	X									X	
<i>Chromis limbata</i> (Valenciennes, 1833)				X						X				
<i>Chromis vanbeberae</i> McFarland, Baldwin, Robertson, Rocha & Tornabene, 2020													X	
<i>Stegastes fuscus</i> (Cuvier, 1830)		X	X	X				X		X		X	X	X
<i>Stegastes pictus</i> (Castelnau, 1855)			X									X	X	X
<i>Stegastes variabilis</i> (Castelnau, 1855)	X											X	X	
<b>Belonidae</b>														
<i>Tylosurus acus</i> (Lacepède, 1803)							X							
<b>Mugilidae</b>														
<i>Mugil</i> spp.												X		
<b>Tripterygiidae</b>														
<i>Enneanectes altivelis</i> Rosenblatt, 1960													X	
<b>Labrisomidae</b>														
<i>Gobioclinus kalisherai</i> (Jordan, 1904)												X	X	
<i>Labrisomus nuchipinnis</i> (Quoy & Gaimard, 1824)	X											X	X	
<i>Malacoctenus delalandii</i> (Valenciennes, 1836)												X	X	
<i>Malacoctenus zaluari</i> Carvalho-Filho, Gasparini & Sazima 2020													X	
<i>Starksia brasiliensis</i> (Gilbert, 1900)													X	
<b>Chaenopsidae</b>														
<i>Emblemariopsis signifer</i> (Ginsburg, 1942)												X	X	
<b>Blenniidae</b>														
<i>Hyppleurochilus fissicornis</i> (Quoy & Gaimard, 1824)												X		
<i>Hypsoblennius invemar</i> Smith-Vaniz & Acero, 1980													X	
<i>Parablennius marmoreus</i> (Poey, 1876)			X									X		
<i>Parablennius pilicornis</i> (Cuvier, 1829)		X	X	X								X		



TABLE S1 | (Continued)

Family/Species	UVC (2015)	BRUV (2015)	BRUV (2017)	BRUV (2020–2021)	Cação Project (1996–2003)	“Viu Raia Project”	PHO	DGN OBS	OBFG OBS	ACSA OBS	Museum vouchers	Moura (2002)	Moura et al. (2003)	Pivetta et al. (2012)
<i>Scartella cristata</i> (Linnaeus, 1758)												X		
<b>Priacanthidae</b>														
<i>Heteropriacanthus cruentatus</i> (Lacepède, 1801)													X	
<i>Priacanthus arenatus</i> Cuvier, 1829		X	X	X			X						X	
<b>Malacanthidae</b>														
<i>Malacanthus plumieri</i> (Bloch, 1786)	X												X	
<b>Lutjanidae</b>														
<i>Lutjanus analis</i> (Cuvier, 1828)		X	X	X			X						X	
<i>Ocyurus chrysurus</i> (Bloch, 1791)				X						X				
<i>Lutjanus cyanopterus</i> (Cuvier, 1828)							X	X					X	
<i>Lutjanus jocu</i> (Bloch & Schneider, 1801)		X	X	X								X	X	
<i>Lutjanus synagris</i> (Linnaeus, 1758)														
<i>Pristipomoides freemani</i> Anderson, 1966				X										
<i>Rhomboplites aurorubens</i> (Cuvier, 1829)	X	X	X	X									X	
<b>Gerreidae</b>														
<i>Eucinostomus melanopterus</i> (Bleeker, 1863)												X		
<b>Haemulidae</b>														
<i>Anisotremus surinamensis</i> (Bloch, 1791)		X	X	X			X	X		X		X	X	X
<i>Anisotremus virginicus</i> (Linnaeus, 1758)		X	X	X			X	X		X		X	X	X
<i>Haemulon atlanticus</i> Carvalho, Marceñiuk, Oliveira & Wosiacki, 2020			X									X	X	
<i>Haemulon aurolineatum</i> Cuvier, 1830		X	X	X				X		X		X	X	X
<i>Haemulon parra</i> (Desmarest, 1823)		X	X	X										
<i>Haemulon plumierii</i> (Lacepède, 1801)			X										X	
<i>Orthopristis rubra</i> (Cuvier, 1830)				X										
<b>Sparidae</b>														
<i>Calamus penna</i> (Valenciennes, 1830)		X	X	X									X	
<i>Calamus pennatula</i> Guichenot, 1868			X											X
<i>Diplodus argenteus</i> (Valenciennes, 1830)			X	X								X	X	X
<i>Pagrus pagrus</i> (Linnaeus, 1758)			X	X									X	
<b>Sciaenidae</b>														
<i>Cynoscion acoupa</i> (Lacepède, 1801)							X							
<i>Cynoscion leiarchus</i> (Cuvier, 1830)							X							
<i>Odontoscion dentex</i> (Cuvier, 1830)	X		X	X								X	X	
<i>Pareques lineatus</i> (Cuvier, 1830)	X			X								X	X	
<i>Pogonias cromis</i> (Linnaeus, 1766)							X							



TABLE S1 | (Continued)

Family/Species	UVC (2015)	BRUV (2015)	BRUV (2017)	BRUV (2020–2021)	Cação Project (1996–2003)	“Viu Raia Project”	PHO	DGN OBS	OBFG OBS	ACSA OBS	Museum vouchers	Moura (2002)	Moura <i>et al.</i> (2003)	Pivetta <i>et al.</i> (2012)
<b>Serranidae</b>														
<i>Diplectrum formosum</i> (Linnaeus, 1766)		X	X	X										
<i>Diplectrum radiale</i> (Quoy & Gaimard, 1824)			X					X				X		
<i>Serranus atrobranchus</i> (Cuvier, 1829)				X										
<i>Serranus baldwini</i> (Evermann & Marsh, 1899)		X	X									X	X	
<i>Serranus flaviventris</i> (Cuvier, 1829)		X	X									X		X
<b>Epinephelidae</b>														
<i>Cephalopholis furcifer</i> (Valenciennes, 1828)		X											X	
<i>Epinephelus itajara</i> (Lichtenstein, 1822)												X	X	
<i>Epinephelus marginatus</i> (Lowe, 1834)		X	X	X			X	X				X	X	X
<i>Epinephelus morio</i> (Valenciennes, 1828)													X	X
<i>Hyporthodus niveatus</i> (Valenciennes, 1828)		X	X	X			X						X	
<i>Mycteroperca acutirostris</i> (Valenciennes, 1828)		X	X	X			X					X	X	X
<i>Mycteroperca bonaci</i> (Poey, 1860)		X	X										X	
<i>Mycteroperca interstitialis</i> (Poey, 1860)													X	
<i>Mycteroperca microlepis</i> (Goode & Bean, 1879)													X	
<b>Labridae</b>														
<i>Bodianus pulchellus</i> (Poey, 1860)		X	X	X				X		X			X	X
<i>Bodianus rufus</i> (Linnaeus, 1758)		X	X	X						X			X	X
<i>Clepticus brasiliensis</i> Heiser, Moura & Robertson, 2000		X											X	X
<i>Cryptotomus roseus</i> Cope, 1871	X											X	X	
<i>Doratonotus megalepis</i> Günther, 1862													X	
<i>Halichoeres brasiliensis</i> (Bloch, 1791)		X	X	X				X				X	X	X
<i>Halichoeres dimidiatus</i> (Agassiz, 1831)			X										X	
<i>Halichoeres poeyi</i> (Steindachner, 1867)		X	X	X								X	X	X
<i>Halichoeres sazimai</i> Luiz, Ferreira & Rocha, 2009	X		X											X
<i>Nicholsina usta</i> (Valenciennes, 1840)													X	
<i>Scarus trispinosus</i> Valenciennes, 1840													X	
<i>Scarus zelindae</i> Moura, Figueiredo & Sazima, 2001		X		X									X	X
<i>Sparisoma amplum</i> (Ranzani, 1841)		X	X	X									X	X
<i>Sparisoma axillare</i> (Steindachner, 1878)		X	X	X								X	X	X
<i>Sparisoma frondosum</i> (Agassiz, 1831)		X	X	X				X				X	X	X
<i>Sparisoma radians</i> (Valenciennes, 1840)												X	X	



TABLE S1 | (Continued)

Family/Species	UVC (2015)	BRUV (2015)	BRUV (2017)	BRUV (2020–2021)	Cação Project (1996–2003)	“Viu Raia Project”	PHO	DGN OBS	OBFG OBS	ACSA OBS	Museum vouchers	Moura (2002)	Moura et al. (2003)	Pivetta et al. (2012)
<i>Sparisoma tuiupiranga</i> Gasparini, Joyeux & Floeter, 2003		X	X	X										
<i>Thalassoma noronhanum</i> (Boulenger, 1890)													X	
<i>Xyrichthys novacula</i> (Linnaeus, 1758)													X	
<b>Scorpaenidae</b>														
<i>Scorpaena isthmensis</i> Meek & Hildebrand, 1928												X	X	
<i>Scorpaena plumieri</i> Bloch, 1789	X													
<b>Kyphosidae</b>														
<i>Kyphosus incisor</i> (Cuvier, 1831)													X	
<i>Kyphosus sectatrix</i> (Linnaeus, 1758)		X	X	X									X	X
<b>Pempheridae</b>														
<i>Pempheris schomburgkii</i> Müller & Troschel, 1848		X	X	X								X	X	
<b>Lobotidae</b>														
<i>Lobotes surinamensis</i> (Bloch, 1790)							X							
<b>Pomacanthidae</b>														
<i>Centropyge aurantonotus</i> Burgess, 1974												X	X	
<i>Holacanthus ciliaris</i> (Linnaeus, 1758)												X	X	
<i>Holacanthus tricolor</i> (Bloch, 1795)	X			X									X	
<i>Pomacanthus arcuatus</i> (Linnaeus, 1758)														X
<i>Pomacanthus paru</i> (Bloch, 1787)	X	X	X	X				X				X	X	X
<b>Chaetodontidae</b>														
<i>Chaetodon sedentarius</i> Poey, 1860													X	
<i>Chaetodon striatus</i> Linnaeus, 1758		X	X	X						X		X	X	X
<b>Ephippidae</b>														
<i>Chaetodipterus faber</i> (Broussonet, 1782)				X			X					X		
<b>Acanthuridae</b>														
<i>Acanthurus bahianus</i> Castelnau, 1855			X									X	X	
<i>Acanthurus chirurgus</i> (Bloch, 1787)				X				X				X	X	
<i>Acanthurus coeruleus</i> Bloch & Schneider, 1801												X	X	
<b>Ogcocephalidae</b>														
<i>Ogcocephalus vespertilio</i> (Linnaeus, 1758)	X			X								X	X	
<b>Diodontidae</b>														
<i>Diodon holacanthus</i> Linnaeus, 1758													X	
<i>Diodon hystrix</i> Linnaeus, 1758													X	



TABLE S1 | (Continued)

Family/Species	UVC (2015)	BRUV (2015)	BRUV (2017)	BRUV (2020–2021)	Cação Project (1996–2003)	“Viu Raia Project”	PHO	DGN OBS	OBFG OBS	ACSA OBS	Museum vouchers	Moura (2002)	Moura <i>et al.</i> (2003)	Pivetta <i>et al.</i> (2012)
<b>Tetraodontidae</b>														
<i>Canthigaster figueiredoi</i> Moura & Castro, 2002		X	X	X								X		
<i>Sphoeroides camila</i> Carvalho-Filho, Rotundo, Pitassy & Sazima, 2023		X	X	X								X		X
<i>Sphoeroides testudineus</i> (Linnaeus, 1758)							X							
<b>Ostraciidae</b>														
<i>Acanthostracion quadricornis</i> (Linnaeus, 1758)													X	
<i>Acanthostracion polygonius</i> Poey, 1876													X	
<i>Lactophrys trigonus</i> (Linnaeus, 1758)													X	
<b>Monacanthidae</b>														
<i>Aluterus scriptus</i> (Osbeck, 1765)												X	X	
<i>Cantherhines macrocerus</i> (Hollard, 1853)	X													
<i>Cantherhines pullus</i> (Ranzani, 1842)			X									X	X	
<i>Stephanolepis hispida</i> (Linnaeus, 1766)													X	
<b>Balistidae</b>														
<i>Balistes vetula</i> Linnaeus, 1758				X								X	X	

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## Neotropical Ichthyology



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