

TABLE S1 | List of fishes of Doce River estuary with additional information about collection year, fishing gear, vouchers and references for trophic guild. Fishing gear: DN, Dip net; BT, Boat trawling; BS, Beach seine; CN, Cast net; GN, Gillnets; NA, Not Available. Coleção Ictiológica da Universidade Federal do Espírito Santo, Vitória (CIUFES), Coleção Zoológica, Museu de Biologia Professor Mello Leitão, Santa Teresa (MBML), Museum of Comparative Zoology, Cambridge (MCZ). Fishing gear: DN, Dip net; BT, Boat trawling; BS, Beach seine; CN, Cast net; GN, Gillnets; NA, Not Available.

Order	Family	Species	Collection year	Fishing gear	Voucher	Reference - Trophic guild
Anguilliformes	Ophichthidae	<i>Myrophis punctatus</i>	2015	BS	CIUFES 3498	(Vaslet <i>et al.</i> , 2011)
Atheriniformes	Atherinopsidae	<i>Atherinella brasiliensis</i>	2015; 2016	BS	CIUFES 3516	(Brito <i>et al.</i> , 2019)
Aulopiformes	Synodontidae	<i>Synodus foetens</i>	2019	BT	Personal observation	(Cruz-Escalona <i>et al.</i> , 2005)
Beloniformes	Belonidae	<i>Strongylura marina</i>	2018	GN	CIUFES 3631	Based on confamilial sp. (Sever <i>et al.</i> , 2009)
Blenniiformes	Blenniidae	<i>Lupinoblennius paivai</i>	2015	BS	CIUFES 3490	(Corrêa, Uieda, 2007)
Carangiformes	Achiridae	<i>Achirus declivis</i>	2018	BT	Personal observation	(Duarte, Andreatta, 2003)
Carangiformes	Achiridae	<i>Achirus lineatus</i>	2018-2020	BT	CIUFES 4264	(Barletta, Blaber, 2007)
Carangiformes	Achiridae	<i>Catathyridium garmani</i>	2018; 2020-2022	BT	CIUFES 5511	Based on the confamilial spp. (Duarte, Andreatta, 2003)
Carangiformes	Achiridae	<i>Trinectes microphthalmus</i>	2018-2021	BT	CIUFES 3637	Based on congeneric sp. (Ferreira <i>et al.</i> , 2019)
Carangiformes	Achiridae	<i>Trinectes paulistanus</i>	2016; 2018-2022	DN; BT	CIUFES 3535	(Ferreira <i>et al.</i> , 2019)
Carangiformes	Carangidae	<i>Caranx crysos</i>	2019	BS; DN	CIUFES 4173	(Sley <i>et al.</i> , 2009)
Carangiformes	Carangidae	<i>Caranx hippos</i>	2018; 2019	BT; GN	CIUFES 5659	(Alves, Soares-Filho, 1996)
Carangiformes	Carangidae	<i>Caranx latus</i>	2015; 2018; 2019; 2021	BT	CIUFES 5337	(Silvano, 2001)
Carangiformes	Carangidae	<i>Chloroscombrus chrysurus</i>	2015	CN	MBML 11042	(Chaves, Umbria, 2003)
Carangiformes	Carangidae	<i>Oligoplites saliens</i>	2016	GN	Photographic record	(Winik <i>et al.</i> , 2007)
Carangiformes	Carangidae	<i>Selene vomer</i>	2015	GN	CIUFES 3499	(Gorni, Loibel, 2013)
Carangiformes	Carangidae	<i>Trachinotus goodei</i>	2016	CN	CIUFES 3530	(Vaske-Junior <i>et al.</i> , 2018)
Carangiformes	Centropomidae	<i>Centropomus parallelus</i>	2016; 2018; 2019	BS; BT	CIUFES 3513	(Tonini <i>et al.</i> , 2007)
Carangiformes	Centropomidae	<i>Centropomus undecimalis</i>	2015; 2016; 2018; 2019	BS; BT; DN; GN	CIUFES 3545	(Tonini <i>et al.</i> , 2007)
Carangiformes	Cynoglossidae	<i>Symphurus tessellatus</i>	2019	BT	Personal observation	(Guedes <i>et al.</i> , 2004)
Carangiformes	Echeneidae	<i>Echeneis naucrates</i>	2019	BT	CIUFES 3841	(Randall, 1967)
Carangiformes	Paralichthyidae	<i>Citharichthys arenaceus</i>	2015; 2018; 2021	BT	CIUFES 3636	(Passos <i>et al.</i> , 2013)
Carangiformes	Paralichthyidae	<i>Citharichthys macrops</i>	2018; 2021	BT	CIUFES 4147	Based on the congeneric sp. (Guedes, Araújo, 2008)
Carangiformes	Paralichthyidae	<i>Citharichthys spilopterus</i>	2019	BT	CIUFES 130553	(Guedes, Araújo, 2008)
Carangiformes	Paralichthyidae	<i>Etropus crossotus</i>	2015	NA	MBML 11036	(Lunardon-Branco, Branco, 2003)
Carangiformes	Polynemidae	<i>Polydactylus oligodon</i>	2018; 2019	BT	Personal observation	Based on congeneric spp. (Sylvain <i>et al.</i> , 2018)
Carangiformes	Polynemidae	<i>Polydactylus virginicus</i>	2018; 2019	BT	Personal observation	Based on congeneric spp. (Sylvain <i>et al.</i> , 2018)
Centrarchiformes	Kyphosidae	<i>Kyphosus sectatrix</i>	2016	GN	CIUFES 3543	(Pinheiro <i>et al.</i> , 2018)

TABLE S1 | (Continued)

Order	Family	Species	Collection year	Fishing gear	Voucher	Reference - Trophic guild
Characiformes	Anostomidae	<i>Megaleporinus conirostris</i>	2022	BS; DN	CIUFES 4567	(Durães <i>et al.</i> , 2001)
Characiformes	Bryconidae	<i>Salminus brasiliensis</i>	2021	BS; DN	CIUFES 6322	(Pereira <i>et al.</i> , 2015)
Characiformes	Characidae	<i>Astyanax cf. lacustris</i>	2015	BS	CIUFES 3481	(Silva <i>et al.</i> , 2012)
Characiformes	Characidae	<i>Deuterodon cf. intermedius</i>	2015	BS	CIUFES 3480	(Souza <i>et al.</i> , 2015)
Characiformes	Characidae	<i>Knodus cf. moenkhausii</i>	2020	BS	CIUFES 4186	(Ceneviva-Bastos, Casatti, 2007)
Characiformes	Erythrinidae	<i>Hoplias intermedius</i>	2021	BS; CN	CIUFES 4482	(Do Prado <i>et al.</i> , 2020)
Characiformes	Erythrinidae	<i>Hoplias cf. malabaricus</i>	2022	BS; CN	CIUFES 4566	(Teixeira De Mello <i>et al.</i> , 2006)
Characiformes	Prochilodontidae	<i>Prochilodus argenteus</i>	2016	CN	CIUFES 3539	Based on congeneric spp. (Bowen <i>et al.</i> , 1984)
Characiformes	Prochilodontidae	<i>Prochilodus costatus</i>	2016	CN	CIUFES 3540	Based on congeneric spp. (Bowen <i>et al.</i> , 1984)
Characiformes	Serrasalminidae	<i>Pygocentrus nattereri</i>	2019; 2021	BS; DN	CIUFES 4168	(Ferreira <i>et al.</i> , 2014)
Cichliformes	Cichlidae	<i>Cichla cf. kelberi</i>	2015	BS	CIUFES 3497	(Gomiero <i>et al.</i> , 2010)
Cichliformes	Cichlidae	<i>Cichla monoculus</i>	1989	NA	MBML 3619	(Santos <i>et al.</i> , 2001)
Cichliformes	Cichlidae	<i>Cichlasoma dimerus</i>	2019	BT	CIUFES 4370	Based on congeneric spp. (Leduc <i>et al.</i> , 2015)
Cichliformes	Cichlidae	<i>Coptodon rendalli</i>	2016; 2018	BS; GN	CIUFES 3511	(Moraes, Andreata, 1994)
Cichliformes	Cichlidae	<i>Crenicichla cf. lacustris</i>	2019; 2020	DN	CIUFES 4185	Based on congeneric spp. (Kuhn <i>et al.</i> , 2020)
Cichliformes	Cichlidae	<i>Geophagus cf. brasiliensis</i>	2015	BS	MBML 12275	(Bastos <i>et al.</i> , 2011)
Cichliformes	Cichlidae	<i>Oreochromis niloticus</i>	2020	BS	CIUFES 4543	(Khallaf, Alne-na-ei, 1987)
Clupeiformes	Clupeidae	<i>Lile piquitinga</i>	2019	BS	CIUFES 4226	(Favero <i>et al.</i> , 2019)
Clupeiformes	Engraulidae	<i>Anchoa januaria</i>	2019	BT	Personal observation	(Sergipensel <i>et al.</i> , 1999)
Clupeiformes	Engraulidae	<i>Anchoa spinifer</i>	2019	BT	Personal observation	(Medeiros <i>et al.</i> , 2017)
Clupeiformes	Engraulidae	<i>Anchoa tricolor</i>	2018	BT	Personal observation	(Medeiros <i>et al.</i> , 2017)
Clupeiformes	Engraulidae	<i>Anchovia clupeoides</i>	2018; 2019	BT; GN	CIUFES 3854	(Duque, Acero, 2003)
Clupeiformes	Engraulidae	<i>Anchoviella cayennensis</i>	2016	BT; GN	CIUFES 3518	Based on congeneric sp. (Duque, Acero, 2003)
Clupeiformes	Engraulidae	<i>Anchoviella lepidentostole</i>	2016; 2019	BS; BT; GN	CIUFES 3523	(Chaves, Vendel, 2008)
Clupeiformes	Engraulidae	<i>Cetengraulis edentulus</i>	2019	BT	CIUFES 3825	(Passos <i>et al.</i> , 2013)
Clupeiformes	Engraulidae	<i>Lycengraulis grossidens</i>	2019; 2020	BT	Personal observation	(Mai, Vieira, 2013)
Clupeiformes	Pristigasteridae	<i>Odontognathus mucronatus</i>	2019	BT	Personal observation	(Giarrizzo, Krumme, 2007)
Cyprinodontiformes	Poeciliidae	<i>Poecilia vivipara</i>	2015	DN	CIUFES 3482	(Moraes, Andreata, 1994)
Elopiformes	Elopidae	<i>Elops cf. smithi</i>	2017	GN	CIUFES 3632	(Ferreira <i>et al.</i> , 2019)
Eupercaria incertae sedis	Sciaenidae	<i>Bairdiella goeldi</i>	2015; 2018; 2019	BT; BS	CIUFES 3500	(Vendel, Chaves, 1998)



TABLE S1 | (Continued)

Order	Family	Species	Collection year	Fishing gear	Voucher	Reference - Trophic guild
Eupercaria incertae sedis	Sciaenidae	<i>Cynoscion acoupa</i>	2016	GN	CIUFES 3542	(Ferreira <i>et al.</i> , 2016)
Eupercaria incertae sedis	Sciaenidae	<i>Cynoscion microlepidotus</i>	2019	BT	Personal observation	Based on the congeneric sp. (Ferreira <i>et al.</i> , 2016)
Eupercaria incertae sedis	Sciaenidae	<i>Larimus breviceps</i>	2018; 2019	BT	Personal observation	(Bessa <i>et al.</i> , 2014)
Eupercaria incertae sedis	Sciaenidae	<i>Menticirrhus americanus</i>	2019	BT	Personal observation	(Rondineli <i>et al.</i> , 2007)
Eupercaria incertae sedis	Sciaenidae	<i>Micropogonias furnieri</i>	2016; 2018	BT	CIUFES 3675	(Denadai <i>et al.</i> , 2015)
Eupercaria incertae sedis	Sciaenidae	<i>Pachyurus adpersus</i>	2015; 2016; 2018-2022	BS; DN; BT	CIUFES 3526	(Azevedo <i>et al.</i> , 2018)
Eupercaria incertae sedis	Sciaenidae	<i>Stellifer brasiliensis</i>	2018-2021	BT	CIUFES 3822	(Passos <i>et al.</i> , 2013)
Eupercaria incertae sedis	Sciaenidae	<i>Stellifer rastrifer</i>	2019	BT	CIUFES 3630	(Barletta, Blaber, 2007)
Eupercaria incertae sedis	Sciaenidae	<i>Stellifer punctatissimus</i>	2018; 2019	BT; GN	CIUFES 3676	(Passos <i>et al.</i> , 2013)
Eupercaria incertae sedis	Sciaenidae	<i>Stellifer stellifer</i>	2018; 2019	BT	Personal observation	(Dantas <i>et al.</i> , 2015)
Eupercaria incertae sedis	Sciaenidae	<i>Stellifer naso</i>	2019	BT	CIUFES 4146	(Camargo, Isaac, 2004)
Gerreiformes	Gerreidae	<i>Diapterus auratus</i>	2021	BT	CIUFES 4201	(Chi-Espínola <i>et al.</i> , 2018)
Gerreiformes	Gerreidae	<i>Diapterus rhombeus</i>	2018; 2019; 2021	BT	CIUFES 4200	(Vasconcellos <i>et al.</i> , 2018)
Gerreiformes	Gerreidae	<i>Eucinostomus argenteus</i>	2015; 2016; 2018; 2019	BS; BT	CIUFES 3531	(Chi-Espínola <i>et al.</i> , 2018)
Gerreiformes	Gerreidae	<i>Eucinostomus melanopterus</i>	2015; 2016; 2018; 2019; 2021	CN; BT	CIUFES 3524	(Ferreira <i>et al.</i> , 2019)
Gerreiformes	Gerreidae	<i>Eugerres brasilianus</i>	2015; 2016; 2018; 2019; 2021; 2022	GN; BS; BT; DN; GN	CIUFES 3548	(Araújo <i>et al.</i> , 2016)
Gobiiformes	Eleotridae	<i>Butis koilomatodon</i>	2015	BT; DN	CIUFES 3489	(Quang <i>et al.</i> , 2020)
Gobiiformes	Eleotridae	<i>Dormitorator maculatus</i>	2015; 2018; 2019	DN	CIUFES 3493	(Teixeira, 1994)
Gobiiformes	Eleotridae	<i>Eleotris pisonis</i>	2015; 2016; 2018; 2019	DN; BS	CIUFES 3533	(Teixeira, 1994)
Gobiiformes	Gobiidae	<i>Awaous tajasica</i>	2015; 2016; 2018-2020; 2022	BS; BT; GN	CIUFES 3519	(Sabino, Castro, 1989)
Gobiiformes	Gobiidae	<i>Bathygobius soporator</i>	2015	BS	CIUFES 5318	(Lopes, Oliveira-Silva, 1998)
Gobiiformes	Gobiidae	<i>Ctenogobius boleosoma</i>	2015; 2016; 2018; 2019	DN; BS; BT	CIUFES 3527	(Contente <i>et al.</i> , 2012)
Gobiiformes	Gobiidae	<i>Ctenogobius shufeldti</i>	2019; 2021	BT	CIUFES 4124	Contente <i>et al.</i> , 2012
Gobiiformes	Gobiidae	<i>Evorthodus lyricus</i>	2015; 2016; 2018; 2019	BS; DN	CIUFES 3515	(Ferreira <i>et al.</i> , 2019)
Gobiiformes	Gobiidae	<i>Gobionellus oceanicus</i>	2015; 2016	BS	CIUFES 3514	(Ferreira <i>et al.</i> , 2019)
Gobiiformes	Gobiidae	<i>Microgobius meeki</i>	2018	BT	Personal observation	(Passos <i>et al.</i> , 2013)
Lutjaniformes	Haemulidae	<i>Conodon nobilis</i>	2016	CN	MBML 11044	(Pombo <i>et al.</i> , 2014)
Lutjaniformes	Haemulidae	<i>Haemulopsis corvinaeformis</i>	2019	BT	Personal observation	(Ferreira <i>et al.</i> , 2019)
Lutjaniformes	Haemulidae	<i>Pomadasys ramosus</i>	2015; 2016; 2018-2021	GN	CIUFES 3550	Based on congeneric sp. (Karimi <i>et al.</i> , 2019)
Lutjaniformes	Haemulidae	<i>Rhonciscus crocro</i>	2016	DN	CIUFES 3532	Based on confamiliar sp. (Karimi <i>et al.</i> , 2019)



TABLE S1 | (Continued)

Order	Family	Species	Collection year	Fishing gear	Voucher	Reference - Trophic guild
Lutjaniformes	Lutjanidae	<i>Lutjanus cyanopterus</i>	2016	BS	Photographic record	Based on congeneric sp. (Monteiro <i>et al.</i> , 2009)
Lutjaniformes	Lutjanidae	<i>Lutjanus jocu</i>	2015; 2016; 2018; 2019	BS; CN; BT	CIUFES 3510	(Monteiro <i>et al.</i> , 2009)
Lutjaniformes	Lutjanidae	<i>Lutjanus synagris</i>	2018; 2020	BT	Personal observation	(Duarte, García, 1999)
Mugiliformes	Mugilidae	<i>Mugil brevisrostris</i>	2015; 2022	CN	CIUFES 3509	(Passos <i>et al.</i> , 2013)
Mugiliformes	Mugilidae	<i>Mugil curema</i>	2015; 2016; 2018; 2019	CN; BS; BT	CIUFES 3549	(Passos <i>et al.</i> , 2013)
Mugiliformes	Mugilidae	<i>Mugil curvidens</i>	2016; 2021	BS	CIUFES 3536	(Passos <i>et al.</i> , 2013)
Mugiliformes	Mugilidae	<i>Mugil incilis</i>	2016	BS	CIUFES 3517	(Passos <i>et al.</i> , 2013)
Mugiliformes	Mugilidae	<i>Mugil liza</i>	2016; 2019	BS; BT	CIUFES 3534	(Passos <i>et al.</i> , 2013)
Pristiformes	Pristidae	<i>Pristis pristis</i>	1865	NA	MCZ 667-S	(Brame <i>et al.</i> , 2019)
Scombriformes	Scombridae	<i>Scomberomorus brasiliensis</i>	2015	GN	Photographic record	Based on congeneric spp. (Randall, 1967)
Siluriformes	Ariidae	<i>Cathorops cf. arenatus</i>	2019	BT	CIUFES 5600	(Passos <i>et al.</i> , 2013)
Siluriformes	Ariidae	<i>Cathorops spixii</i>	2015; 2016; 2018-2020	GN; BT	CIUFES 3525	(Barletta, Blaber, 2007)
Siluriformes	Ariidae	<i>Genidens barbatus</i>	2016; 2018-2022	BT	CIUFES 3638	(Mendoza-Carranza, Vieira, 2009)
Siluriformes	Ariidae	<i>Genidens genidens</i>	2015; 2016; 2018-2022	GN; BT	CIUFES 3541	(Chaves, Vendel, 1996)
Siluriformes	Ariidae	<i>Paragenidens grandoculis</i>	2018; 2020-2022	BT	CIUFES 3766	Based on confamilial sp. (Mendoza-Carranza, Vieira, 2009)
Siluriformes	Ariidae	<i>Sciades herzbergii</i>	2019	BT	CIUFES 4153	(Ribeiro <i>et al.</i> , 2012)
Siluriformes	Auchenipteridae	<i>Pseudauchenipterus affinis</i>	2018-2022	BT; GN	CIUFES 3848	Based on congeneric sp. (De Mérona <i>et al.</i> , 2005)
Siluriformes	Callichthyidae	<i>Callichthys callichthys</i>	2015	SD	CIUFES 3501	(Mol, 1995)
Siluriformes	Loricariidae	<i>Hypostomus scabriceps</i>	2015	BS	CIUFES 3484	Based on congeneric spp. (Villares-Junior <i>et al.</i> , 2016)
Siluriformes	Pimelodidae	<i>Pimelodus maculatus</i>	2015; 2016; 2018- 2022	CN	CIUFES 3547	(Lima-Junior, Goitein, 2003)
Siluriformes	Pseudopimelodidae	<i>Microglanis pataxo</i>	2015	BS; DN	CIUFES 3483	Based on congeneric sp. (Aranha <i>et al.</i> , 1998)
Spariformes	Sparidae	<i>Archosargus probatocephalus</i>	2017	GN	CIUFES 3633	(Cutwa, Turingan, 2000)
Symbranchiformes	Synbranchidae	<i>Synbranchus marmoratus</i>	2015	BS	CIUFES 3507	(Braga <i>et al.</i> , 2008)
Syngnathiformes	Syngnathidae	<i>Microphis lineatus</i>	2015; 2016; 2018; 2019; 2022	DN; BS; BT	CIUFES 3496	(Teixeira, Perrone, 1998)
Tetraodontiformes	Tetraodontidae	<i>Lagocephalus laevigatus</i>	2018; 2019	BT	Personal observation	(Denadai <i>et al.</i> , 2012)
Tetraodontiformes	Tetraodontidae	<i>Sphoeroides greeleyi</i>	2016	BT	MBML 11043	(Medeiros <i>et al.</i> , 2017)
Tetraodontiformes	Tetraodontidae	<i>Sphoeroides testudineus</i>	2018; 2019; 2021	BT	CIUFES 4415	(Santos, Rodriguez, 2011)

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Official Journal of the
Sociedade Brasileira de Ictiologia

HOW TO CITE THIS ARTICLE

- **Rodrigues VLA, Guabiroba HC, Vilar CC, Andrades R, Villela A, Hostim-Silva M, Joyeux J-C.** Fish biodiversity of a tropical estuary under severe anthropic pressure (Doce River, Brazil). *Neotrop Ichthyol.* 2022; 20(3):e220022. <https://doi.org/10.1590/1982-0224-2022-0022>