

**Supplementary material:** The same but different: stable isotopes reveal two distinguishable, yet similar, neighbouring food chains in a coral reef

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**Table S1.** Trophic groups of the 32 teleost species sampled in the Ouano lagoon and determined from the literature

Species	References
<b>Diurnal planktivorous</b>	
<i>Acanthurus albipectoralis</i>	Fishbase
<i>Abudefduf sexfasciatus</i>	Frédérich et al., 2009
<i>Chromis margaritifer</i>	Hobson and Chess, 1978
<i>Chromis vanderbilti</i>	Hobson, 1974
<i>Chromis viridis</i>	Hobson, 1991
<i>Dascyllus aruanus</i>	Frédérich et al., 2009; 2010
<i>Dascyllus reticulatus</i>	Hobson and Chess, 1978; Zikova et al., 2011
<i>Dascyllus trimaculatus</i>	Frédérich et al., 2009
<i>Genicanthus watanabei</i>	Fishbase
<i>Hemitaurichthys polylepis</i>	Sano, 1989
<i>Pseudanthias squamipinnis</i>	Fishbase
<b>Nocturnal planktivorous</b>	
<i>Cheilodipterus quinquelineatus</i>	Barnett et al., 2006
<i>Nectamia bandanensis</i>	Fishbase
<i>Ostorhinchus angustatus</i>	Fishbase
<i>Ostorhinchus aureus</i>	Fishbase
<i>Ostorhinchus cyanosoma</i>	Barnett et al., 2006
<i>Ostorhinchus novemfasciatus</i>	Fishbase
<i>Pristiapogon exostigma</i>	Barnett et al., 2006
<i>Pristiapogon kallopterus</i>	Fishbase
<b>Non-planktivorous</b>	
<i>Chrysiptera taupou</i>	Fishbase
<i>Forcipiger flavissimus</i>	Hobson, 1974; Sano, 1989
<i>Neoglyphidodon melas</i>	Chan, 2007
<i>Plectroglyphidodon dickii</i>	Ho et al., 2009
<i>Plectroglyphidodon johnstonianus</i>	Hobson, 1974; Ho et al., 2009
<i>Plectroglyphidodon lacrymatus</i>	Frédérich et al., 2009
<i>Pomacentrus wardi</i>	Ceccarelli, 2007; Ceccarelli et al., 2013
<i>Pseudocheilinus hexataenia</i>	Williams and Williams, 1986
<i>Stegastes nigricans</i>	Letourneur et al, 1997; Hata and Umezawa, 2011
<b>Mixed diet</b>	
<i>Amphiprion akindynos</i>	Galetto and Bellwood, 1994
<i>Pomacentrus amboinensis</i>	McCormick, 2003
<i>Pomacentrus brachialis</i>	Fishbase
<i>Pomacentrus moluccensis</i>	Pratchett et al., 2001; Fishbase

**Table S2.** Frequency of occurrence (%O), numerical percentage (%N), weight percentage (%W) and percentage of the index of relative importance (%IRI) obtained in stomach contents of teleosts sampled outside the Ouano lagoon

		Diurnal planktivorous											
		<i>Acanthurus albipectoralis</i> (n = 3)				<i>Abudefduf sexfasciatus</i> (n = 3)				<i>Chromis marginifer</i> (n = 7)			
		%O	%N	%W	%IRI	%O	%N	%W	%IRI	%O	%N	%W	%IRI
Phylobentos	Phylobentos	33.33	11.11	7.25	4.99	33.33	0.16	0.11	0.05	28.57	4.76	8.26	4.54
Diatoms	<i>Rhabdonema</i>	-	-	-	-	-	-	-	-	-	-	-	-
Protists	Foraminifera	-	-	-	-	100.00	14.02	2.44	9.34	14.29	1.14	2.48	0.63
Cnidarians	Polyps	-	-	-	-	-	-	-	-	-	-	-	-
	Siphonophores	33.33	3.70	0.20	1.06	-	-	-	-	-	-	-	-
Copepods	<i>Oncaea</i>	-	-	-	-	33.33	0.33	0.03	0.07	14.29	0.33	0.02	0.06
	<i>Oithona</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Microsetella</i>	-	-	-	-	-	-	-	-	14.29	2.29	0.69	0.52
	<i>Macrosetella</i>	-	-	-	-	33.33	0.16	0.01	0.03	14.29	0.33	0.02	0.06
	<i>Clauso/Paracalanus</i>	33.33	3.70	0.31	1.09	100.00	1.12	0.39	0.86	28.57	3.84	6.18	3.49
	<i>Tisbe</i>	-	-	-	-	-	-	-	-	71.43	15.59	10.68	22.89
	<i>Corycédés</i>	-	-	-	-	66.67	0.97	0.12	0.41	42.86	5.43	2.01	3.89
	<i>Candacia</i>	-	-	-	-	100.00	10.17	11.44	12.26	14.29	0.66	0.96	0.28
	<i>Euterpina</i>	-	-	-	-	-	-	-	-	28.57	6.29	2.97	3.23
	<i>Subeucalanus</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Mecynocera</i>	-	-	-	-	33.33	0.16	0.05	0.04	14.29	1.59	1.58	0.55
	<i>Porcellidium</i>	-	-	-	-	-	-	-	-	42.86	16.29	15.26	16.49
	<i>Centropages</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Acartia</i>	66.67	17.78	11.04	15.68	33.33	0.32	0.06	0.07	14.29	0.33	0.10	0.08
	<i>Nannocalanus</i>	-	-	-	-	33.33	2.22	1.51	0.71	-	-	-	-
	<i>Euchaeta</i>	-	-	-	-	66.67	0.64	0.29	0.35	-	-	-	-
	<i>Lubbockia</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Undinula</i>	-	-	-	-	100.00	3.50	6.03	5.40	-	-	-	-
	Copepods nd	-	-	-	-	33.33	0.32	0.03	0.07	28.57	7.35	6.03	4.66
Ostracods	Ostracods	-	-	-	-	-	-	-	-	28.57	2.95	4.29	2.53
Amphipods	Amphipods	33.33	13.33	4.05	4.73	66.67	0.64	0.09	0.28	71.43	13.38	14.43	24.23
Isopods	Isopods	-	-	-	-	-	-	-	-	42.86	5.11	0.95	3.17
Cirripedia	Cirri	-	-	-	-	-	-	-	-	-	-	-	-
Pycnogonids	Pycnogonids	-	-	-	-	-	-	-	-	-	-	-	-
Decapod	Shrimp	-	-	-	-	-	-	-	-	-	-	-	-
Appendicularia	Appendicularia	-	-	-	-	33.33	3.27	1.75	0.95	-	-	-	-
Molluscs	Benthic gastropoda	33.33	11.11	21.53	8.88	66.67	3.49	17.92	8.10	14.29	0.33	2.41	0.48
	<i>Cavolinia</i>	33.33	3.70	8.26	3.25	-	-	-	-	-	-	-	-
	Other pteropods	-	-	-	-	33.33	0.33	0.57	0.17	-	-	-	-
Meroplankton	Nauplii cirripedia	-	-	-	-	-	-	-	-	-	-	-	-
	Cypris	-	-	-	-	100.00	13.41	12.84	14.89	-	-	-	-
	Metazoa	33.33	6.67	6.84	3.67	33.33	0.16	0.12	0.05	-	-	-	-
	Gastropoda larvae	100.00	28.89	40.52	56.64	100.00	36.45	33.92	39.92	14.29	8.97	9.16	3.16
	Bivalvia larvae	-	-	-	-	33.33	0.32	0.35	0.13	28.57	3.05	11.51	5.07
	Tunicate larvae	-	-	-	-	-	-	-	-	-	-	-	-
Eggs	Mollusc eggs	-	-	-	-	33.33	1.96	2.55	0.85	-	-	-	-
	Other eggs	-	-	-	-	66.67	5.87	7.37	5.01	-	-	-	-

  

		Diurnal planktivorous											
		<i>Chromis vanderbilti</i> (n = 1)				<i>Genicanthus watanabei</i> (n = 7)				<i>Hemitaenichthys polylepis</i> (n = 1)			
		%O	%N	%W	%IRI	%O	%N	%W	%IRI	%O	%N	%W	%IRI
Phylobentos	Phylobentos	-	-	-	-	100.00	58.34	50.83	84.55	-	-	-	-
Diatoms	<i>Rhabdonema</i>	-	-	-	-	14.29	5.78	0.64	0.71	-	-	-	-
Protists	Foraminifera	100.00	5.88	4.13	5.01	-	-	-	-	-	-	-	-
Cnidarians	Polyps	-	-	-	-	-	-	-	-	-	-	-	-
	Siphonophores	-	-	-	-	-	-	-	-	-	-	-	-
Copepods	<i>Oncaea</i>	100.00	23.53	6.19	14.86	-	-	-	-	-	-	-	-
	<i>Oithona</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Microsetella</i>	100.00	29.41	2.87	16.14	-	-	-	-	-	-	-	-
	<i>Macrosetella</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Clauso/Paracalanus</i>	100.00	11.76	20.66	16.21	28.57	3.54	3.18	1.49	-	-	-	-
	<i>Tisbe</i>	100.00	5.88	2.08	3.98	-	-	-	-	-	-	-	-
	<i>Corycédés</i>	-	-	-	-	14.29	0.89	0.13	0.11	-	-	-	-
	<i>Candacia</i>	-	-	-	-	14.29	0.34	2.02	0.26	100.00	15.11	8.96	12.03
	<i>Euterpina</i>	-	-	-	-	14.29	0.68	0.02	0.08	-	-	-	-
	<i>Subeucalanus</i>	-	-	-	-	14.29	0.68	9.84	1.16	-	-	-	-
	<i>Mecynocera</i>	-	-	-	-	14.29	0.75	0.36	0.12	-	-	-	-
	<i>Porcellidium</i>	100.00	5.88	2.08	3.98	-	-	-	-	-	-	-	-
	<i>Centropages</i>	-	-	-	-	14.29	0.89	3.22	0.45	-	-	-	-
	<i>Acartia</i>	-	-	-	-	14.29	0.89	0.46	0.15	-	-	-	-
	<i>Nannocalanus</i>	-	-	-	-	28.57	1.28	3.85	1.14	-	-	-	-
	<i>Euchaeta</i>	-	-	-	-	14.29	0.75	0.80	0.17	-	-	-	-
	<i>Lubbockia</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Undinula</i>	-	-	-	-	-	-	-	-	-	-	-	-
	Copepods nd	100.00	5.88	5.08	5.48	57.14	3.14	0.62	1.66	-	-	-	-
Ostracods	Ostracods	-	-	-	-	-	-	-	-	100.00	0.72	0.05	0.38
Amphipods	Amphipods	-	-	-	-	57.14	3.12	0.71	1.70	100.00	0.72	0.04	0.38
Isopods	Isopods	-	-	-	-	42.86	3.69	0.17	1.28	-	-	-	-
Cirripedia	Cirri	-	-	-	-	14.29	0.53	0.04	0.06	-	-	-	-
Pycnogonids	Pycnogonids	-	-	-	-	14.29	0.75	0.06	0.09	-	-	-	-
Decapod	Shrimp	-	-	-	-	-	-	-	-	-	-	-	-
Appendicularia	Appendicularia	-	-	-	-	14.29	0.75	0.64	0.15	-	-	-	-
Molluscs	Benthic gastropoda	-	-	-	-	14.29	7.94	13.81	2.41	100.00	21.58	63.99	42.79
	<i>Cavolinia</i>	-	-	-	-	-	-	-	-	-	-	-	-
	Other pteropods	-	-	-	-	-	-	-	-	100.00	0.72	0.28	0.50
Meroplankton	Nauplii cirripedia	-	-	-	-	14.29	0.68	0.02	0.08	-	-	-	-
	Cypris	-	-	-	-	14.29	0.53	0.94	0.16	100.00	0.72	0.20	0.46
	Metazoa	-	-	-	-	-	-	-	-	-	-	-	-
	Gastropoda larvae	100.00	5.88	33.61	19.75	14.29	1.79	3.11	0.54	100.00	53.24	22.26	37.75
	Bivalvia larvae	-	-	-	-	14.29	0.89	2.66	0.39	100.00	5.04	3.60	4.32
	Tunicate larvae	-	-	-	-	-	-	-	-	-	-	-	-
Eggs	Mollusc eggs	-	-	-	-	-	-	-	-	-	-	-	-
	Other eggs	100.00	5.88	23.29	14.59	42.86	1.37	1.88	1.08	100.00	2.16	0.63	1.39

**Table S2 (continued).**

		Diurnal planktivorous				Nocturnal planktivorous				Non-planktivorous			
		<i>Pseudoanthias squamipinnis</i> (n = 3)				<i>Ostorhinchus angustatus</i> (n = 1)				<i>Forcipiger flavissimus</i> (n = 2)			
		%O	%N	%W	%IRI	%O	%N	%W	%IRI	%O	%N	%W	%IRI
Phytobentos	Phytobentos	-	-	-	-	-	-	-	-	-	-	-	-
Diatoms	<i>Rhabdonema</i>	-	-	-	-	-	-	-	-	-	-	-	-
Protists	Foraminifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidarians	Polyps	-	-	-	-	-	-	-	-	100.00	100.00	100.00	100.00
	Siphonophores	-	-	-	-	-	-	-	-	-	-	-	-
Copepods	<i>Oncaea</i>	66.67	3.61	0.26	1.52	-	-	-	-	-	-	-	-
	<i>Oithona</i>	33.33	0.42	0.02	0.09	-	-	-	-	-	-	-	-
	<i>Microsetella</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Macrosetella</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Clauso/Paracalanus</i>	66.67	5.79	2.44	3.24	-	-	-	-	-	-	-	-
	<i>Tisbe</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Corycédés</i>	66.67	16.11	2.11	7.18	-	-	-	-	-	-	-	-
	<i>Candacia</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Euterpina</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Subeucalanus</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Mecynocera</i>	33.33	0.83	0.20	0.20	-	-	-	-	-	-	-	-
	<i>Porcellidium</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Centropages</i>	66.67	3.61	11.55	5.98	-	-	-	-	-	-	-	-
	<i>Acartia</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Nannocalanus</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Euchaeta</i>	33.33	2.50	1.29	0.75	-	-	-	-	-	-	-	-
	<i>Lubbockia</i>	33.33	2.78	0.66	0.68	-	-	-	-	-	-	-	-
	<i>Undinula</i>	-	-	-	-	-	-	-	-	-	-	-	-
	Copepods nd	66.67	1.21	0.20	0.56	-	-	-	-	-	-	-	-
Ostracods	Ostracods	33.33	0.42	0.10	0.10	-	-	-	-	-	-	-	-
Amphipods	Amphipods	33.33	0.42	0.07	0.10	100.00	83.33	83.06	83.19	-	-	-	-
Isopods	Isopods	-	-	-	-	-	-	-	-	-	-	-	-
Cirripedia	Cirri	-	-	-	-	-	-	-	-	-	-	-	-
Pycnogonids	Pycnogonids	-	-	-	-	-	-	-	-	-	-	-	-
Decapod	Shrimp	-	-	-	-	100.00	16.67	16.94	16.81	-	-	-	-
Appendicularia	Appendicularia	-	-	-	-	-	-	-	-	-	-	-	-
Molluscs	Benthic gastropoda	33.33	0.79	5.08	1.16	-	-	-	-	-	-	-	-
	<i>Cavolinia</i>	-	-	-	-	-	-	-	-	-	-	-	-
	Ohter pteropods	-	-	-	-	-	-	-	-	-	-	-	-
Meroplankton	Nauplii cirripedia	-	-	-	-	-	-	-	-	-	-	-	-
	Cypris	-	-	-	-	-	-	-	-	-	-	-	-
	Metazoa	-	-	-	-	-	-	-	-	-	-	-	-
	Gastropoda larvae	100.00	59.42	70.89	77.03	-	-	-	-	-	-	-	-
	Bivalvia larvae	33.33	2.08	5.14	1.42	-	-	-	-	-	-	-	-
	Tunicate larvae	-	-	-	-	-	-	-	-	-	-	-	-
Eggs	Mollusc eggs	-	-	-	-	-	-	-	-	-	-	-	-
	Other eggs	-	-	-	-	-	-	-	-	-	-	-	-

  

		Non-planktivorous											
		<i>Plectroglyphidodon dickii</i> (n = 1)				<i>Plectroglyphidodon johnstonianus</i> (n = 4)				<i>Pomacentrus wardi</i> (n = 2)			
		%O	%N	%W	%IRI	%O	%N	%W	%IRI	%O	%N	%W	%IRI
Phytobentos	Phytobentos	100.00	55.56	19.14	37.35	25.00	25.00	25.00	25.00	100.00	46.07	52.53	66.04
Diatoms	<i>Rhabdonema</i>	-	-	-	-	-	-	-	-	-	-	-	-
Protists	Foraminifera	-	-	-	-	-	-	-	-	-	-	-	-
Cnidarians	Polyps	-	-	-	-	-	-	-	-	-	-	-	-
	Siphonophores	-	-	-	-	-	-	-	-	-	-	-	-
Copepods	<i>Oncaea</i>	-	-	-	-	-	-	-	-	50.00	5.71	0.74	2.16
	<i>Oithona</i>	100.00	11.11	0.41	5.76	-	-	-	-	-	-	-	-
	<i>Microsetella</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Macrosetella</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Clauso/Paracalanus</i>	100.00	11.11	3.27	7.19	-	-	-	-	50.00	8.57	7.41	5.35
	<i>Tisbe</i>	-	-	-	-	-	-	-	-	50.00	1.43	0.25	0.56
	<i>Corycédés</i>	-	-	-	-	-	-	-	-	50.00	8.57	2.05	3.56
	<i>Candacia</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Euterpina</i>	-	-	-	-	25.00	25.00	25.00	25.00	-	-	-	-
	<i>Subeucalanus</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Mecynocera</i>	-	-	-	-	-	-	-	-	50.00	4.29	1.96	2.09
	<i>Porcellidium</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Centropages</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Acartia</i>	-	-	-	-	-	-	-	-	50.00	1.43	1.18	0.87
	<i>Nannocalanus</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Euchaeta</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Lubbockia</i>	-	-	-	-	-	-	-	-	-	-	-	-
	<i>Undinula</i>	-	-	-	-	-	-	-	-	-	-	-	-
	Copepods nd	-	-	-	-	-	-	-	-	50.00	12.50	6.14	6.24
Ostracods	Ostracods	100.00	11.11	1.69	6.40	-	-	-	-	-	-	-	-
Amphipods	Amphipods	-	-	-	-	-	-	-	-	-	-	-	-
Isopods	Isopods	-	-	-	-	-	-	-	-	-	-	-	-
Cirripedia	Cirri	-	-	-	-	-	-	-	-	-	-	-	-
Pycnogonids	Pycnogonids	-	-	-	-	-	-	-	-	-	-	-	-
Decapod	Shrimp	-	-	-	-	-	-	-	-	-	-	-	-
Appendicularia	Appendicularia	-	-	-	-	-	-	-	-	-	-	-	-
Molluscs	Benthic gastropoda	100.00	11.11	75.49	43.30	25.00	25.00	25.00	25.00	-	-	-	-
	<i>Cavolinia</i>	-	-	-	-	-	-	-	-	-	-	-	-
	Ohter pteropods	-	-	-	-	-	-	-	-	-	-	-	-
Meroplankton	Nauplii cirripedia	-	-	-	-	-	-	-	-	-	-	-	-
	Cypris	-	-	-	-	-	-	-	-	-	-	-	-
	Metazoa	-	-	-	-	-	-	-	-	-	-	-	-
	Gastropoda larvae	-	-	-	-	-	-	-	-	50.00	1.43	4.02	1.82
	Bivalvia larvae	-	-	-	-	-	-	-	-	50.00	4.29	20.62	8.34
	Tunicate larvae	-	-	-	-	-	-	-	-	50.00	4.29	0.32	1.54
Eggs	Mollusc eggs	-	-	-	-	-	-	-	-	-	-	-	-
	Other eggs	-	-	-	-	25.00	25.00	25.00	25.00	50.00	1.43	2.78	1.41

**Table S2 (continued).**

		Mixed diet			
		<i>Pomacentrus brachialis</i> (n = 2)			
		%O	%N	%W	%IRI
Phytobentos	Phytobentos	50.00	1.72	6.66	3.80
Diatoms	<i>Rhabdonema</i>	50.00	31.03	8.77	18.06
Protists	Foraminifera	50.00	5.17	6.82	5.44
Cnidarians	Polyps	-	-	-	-
	Siphonophores	-	-	-	-
Copepods	<i>Oncaea</i>	50.00	25.00	6.21	14.16
	<i>Oithona</i>	-	-	-	-
	<i>Microsetella</i>	-	-	-	-
	<i>Macrosetella</i>	-	-	-	-
	<i>Clauso/Paracalanus</i>	50.00	5.17	17.06	10.09
	<i>Tisbe</i>	50.00	6.25	2.09	3.78
	<i>Corycédés</i>	50.00	6.25	2.87	4.14
	<i>Candacia</i>	-	-	-	-
	<i>Euterpina</i>	-	-	-	-
	<i>Subeucalanus</i>	-	-	-	-
	<i>Mecynocera</i>	-	-	-	-
	<i>Porcellidium</i>	-	-	-	-
	<i>Centropages</i>	-	-	-	-
	<i>Acartia</i>	-	-	-	-
	<i>Nannocalanus</i>	-	-	-	-
	<i>Euchaeta</i>	-	-	-	-
	<i>Lubbockia</i>	-	-	-	-
	<i>Undinula</i>	-	-	-	-
	Copepods nd	100.00	9.70	10.69	18.51
Ostracods	Ostracods	50.00	1.72	2.94	2.12
Amphipods	Amphipods	50.00	1.72	2.16	1.76
Isopods	Isopods	-	-	-	-
Cirripedia	Cirri	-	-	-	-
Pycnogonids	Pycnogonids	-	-	-	-
Decapod	Shrimp	-	-	-	-
Appendicularia	Appendicularia	-	-	-	-
Molluscs	Benthic gastropoda	-	-	-	-
	<i>Cavolinia</i>	-	-	-	-
	Other pteropods	-	-	-	-
Meroplankton	Nauplii cirripedia	-	-	-	-
	Cypris	-	-	-	-
	Metazoea	-	-	-	-
	Gastropoda larvae	50.00	6.25	33.73	18.14
	Bivalvia larvae	-	-	-	-
	Tunicate larvae	-	-	-	-
Eggs	Mollusc eggs	-	-	-	-
	Other eggs	-	-	-	-

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