

*The following supplement accompanies the article*

## **Native fish community structure and Indo-Pacific lionfish *Pterois volitans* densities along a depth-temperature gradient in Onslow Bay, North Carolina, USA**

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**Supplement.** Distribution of sampling effort by habitat type and depth. Temperature data locations with depth and number of years the data was collected. Densities of all the individual conspicuous and cryptic fish species by depth zone

Table S1. Distribution of sampling effort from 2006 to 2010 across Onslow Bay, NC. Sampling consisted of 102 conspicuous fish surveys at 50 different sites; 85 surveys were conducted in hard bottom (HB) habitats, 9 were conducted on jetties and 8 were conducted on shipwrecks. From 2007 to 2010, 72 cryptic fish surveys were conducted at 38 sites; 66 surveys were conducted in HB habitats, 2 were conducted on jetties and 4 were conducted on shipwrecks. ‘-’ indicates a survey was not conducted at that location

Site name	No. of conspicuous surveys	No. of cryptic surveys	Habitat	Depth (m)	Habitat height (m)	Temperature data location used in PRIMER analyses <sup>a</sup>
shackjetty	2	1	jetty	5	2.0	T1
capelookoutjetty	5	1	jetty	6	2.0	T1
radioisland	2	-	jetty	6	2.0	T1
<i>Liberty Ship</i>	1	1	shipwreck	14	5.0	T1
<i>Novelty</i>	2	1	shipwreck	15	6.0	T1
bargerock	1	-	HB	16	1.3	T2
2NWP3	1	1	HB	18	2.1	T3
3NWP6	4	4	HB	18	2.1	T3
Bigten	1	1	HB	20	4.1	T3
Swledge1	3	3	HB	24	2.4	T4
Swledge2	1	1	HB	24	1.7	T4
<i>City of Houston</i>	1	-	shipwreck	26.5	4.0	T19
23mile1	4	4	HB	27	2.7	T15
23mile2	1	1	HB	27	4.2	T15
Witzig1	1	1	HB	28	1.5	T6
Witzig2	2	2	HB	28	3.2	T6
Capdan1	1	1	HB	29.2	1.1	T16
Capdan2	4	4	HB	29.2	2.8	T16
210Rock	7	4	HB	31	1.4	T6
210RockN1	2	2	HB	31	1.8	T6
HRC	1	1	HB	31	3.2	T6
<i>Normania</i>	1	1	shipwreck	32	4.7	T14
Danspot2	5	4	HB	32.5	1.2	T17
Danspot3	1	1	HB	32.5	1.1	T17
Danspot4	1	1	HB	32.5	0.6	T17
Lobrocknor2	1	1	HB	33	0.7	T11
Lobrocknor4	1	-	HB	33	0.5	T11
Lobrocknor4a	1	1	HB	33	0.5	T11
lobrocknor7	1	-	HB	33	0.6	T11
<i>Papoose</i>	1	1	shipwreck	35.7	5.7	T7
<i>18 Fathom</i>	1	-	shipwreck	36.6	4.0	T20
Woo1	2	1	HB	37	1.1	T7
Woo2	2	2	HB	37	1.4	T7
Woo3	1	-	HB	37	1.5	T7
Woo5	2	1	HB	37	1.1	T7
Woo6	4	4	HB	37	2.0	T7
K4	1	-	HB	38	0.9	T13
Lobrocksth3	1	1	HB	38.5	2.4	T11
Lobrocksth4	4	3	HB	38.5	1.9	T11,T12
Lobrocksth5	1	-	HB	38.5	1.0	T11
<i>Naeco</i>	1	-	shipwreck	39	4.0	T9
setower2	5	4	HB	39.5	1.0	T18
setower3	1	-	HB	39.5	0.4	T18
K1	1	1	HB	42	0.8	T13
K2	1	-	HB	42	0.7	T13
K3	5	4	HB	42	1.3	T13,T10
Bigfish1	5	4	HB	46	0.5	T10
Bigfish2	2	1	HB	46	0.3	T10
Bigfish3	1	1	HB	46	0.4	T10
Bigfish4	1	1	HB	46	0.4	T10

<sup>a</sup>Referenced in Fig. 1 in the main article, Table S2 in the Supplement

Table S2. Temperature data collected from up to 20 different locations across the Onslow Bay shelf. In some cases, temperature sensors were placed before surveys commenced and are included to characterize the thermal gradient across the shelf. Shipwreck names are capitalized and in italics

Name referenced in Fig. 1	Site name	Depth (m)	Maximum no. of years	Actual years <sup>a</sup>
T1	bogue pier	5	10	2000–2010
T2	<i>Liberty Ship</i>	14	1	2009
T2	<i>Suloide</i>	19	8	2002–2009
T3	3NWP6	18	4	2007–2010
T4	swledge1	24	4	2007–2010
T5	bigten	20	3	2007–2009
T6	210rock	31	6	2004, 2006–2010
T7	<i>Papoose</i>	35.7	9	2000–2008
T8	woo	37	2	2009–2010
T9	<i>Naeco</i>	46	8	2001–2003, 2005–2009
T10	bigfish	46	4	2007–2010
T11	<i>Lobster Wreck</i>	35	6	2002–2007
T12	lobsouth	38.5	3	2008–2010
T13	k3	42	5	2006–2010
T14	<i>Normania</i>	32	7	2002–2008
T15	23mile	27	3	2007–2010
T16	capdan	29.2	3	2007–2010
T17	danspot	32.5	4	2006–2010
T18	setower	39.5	2	2007–2009
T19	<i>City of Houston</i>	30	3	2005–2007
T20	<i>18 Fathom</i>	37	2	2004–2005

<sup>a</sup>Not every year had concurrent data

Table S3. Densities of fishes observed on transects for conspicuous (2006 to 2010) and cryptic (2007 to 2010) species within their respective significant depth zones (from LINKTREE analysis). Conspicuous species transect ~500 m<sup>2</sup>, with no length limit for species observed; cryptic species transect ~100 m<sup>2</sup>, with fish lengths limited to ≤10 cm. Densities are in individuals per hectare; values in parentheses are standard error rounded up to nearest whole number

Family and Common name	Genus	Species	Climate range <sup>a</sup>	Density (ind. ha <sup>-1</sup> )								
				Cryptic					Conspicuous			
				Significant depth zone (m)	5–15	18–24	27–38.5	39.5–46	5–14	15–37	38–46	
<b>Acanthuridae</b>												
blue tang	<i>Acanthurus</i>	<i>coeruleus</i>	tropical		0(0)	40(26)	46(27)	0(0)	1(1)	8(4)	32(10)	
ocean surgeonfish	<i>Acanthurus</i>	<i>bahianus</i>	tropical		0(0)	35(18)	5(3)	0(0)	0(0)	10(4)	51(26)	
doctorfish	<i>Acanthurus</i>	<i>chirurgus</i>	subtropical		0(0)	0(0)	0(0)	6(6)	0(0)	4(2)	13(5)	
<b>Apogonidae</b>												
twospot cardinalfish	<i>Apogon</i>	<i>pseudomaculatus</i>	tropical		0(0)	151(74)	68(24)	22(19)	0(0)	1(1)	0(0)	
cardinalfish species	<i>Apogon</i>	<i>species</i>	tropical		0(0)	0(0)	2(2)	0(0)	0(0)	0(0)	0(0)	
<b>Balistidae</b>												
filefish species	<i>Monacanthus</i>	<i>species</i>	subtropical		0(0)	0(0)	0(0)	0(0)	0(0)	6(4)	0(0)	
ocean triggerfish	<i>Canthidermis</i>	<i>sufflamen</i>	tropical		0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)	
gray triggerfish	<i>Balistes</i>	<i>capriscus</i>	subtropical		0(0)	0(0)	0(0)	22(22)	8(8)	30(6)	52(11)	
planehead filefish	<i>Stephanolepis</i>	<i>hispidus</i>	subtropical		13(13)	0(0)	0(0)	0(0)	8(6)	5(1)	0(0)	
queen triggerfish	<i>Balistes</i>	<i>vetula</i>	tropical		0(0)	0(0)	0(0)	0(0)	0(0)	3(1)	0(0)	
scrawled filefish	<i>Aluterus</i>	<i>scriptus</i>	subtropical		0(0)	0(0)	0(0)	11(11)	0(0)	0(0)	0(0)	
<b>Batrachoididae</b>												
oyster toad	<i>Opsanus</i>	<i>tau</i>	subtropical		0(0)	0(0)	0(0)	0(0)	1(1)	1(1)	0(0)	
<b>Blenniidae</b>												
seaweed blenny	<i>Parablennius</i>	<i>marmoreus</i>	subtropical		25(25)	493(162)	342(180)	0(0)	0(0)	7(3)	0(0)	
blenny species	.	.	tropical		38(38)	0(0)	5(4)	0(0)	0(0)	0(0)	0(0)	
<b>Carangidae</b>												
almaco jack	<i>Seriola</i>	<i>rivoliana</i>	subtropical		0(0)	0(0)	0(0)	0(0)	0(0)	29(11)	26(11)	
bar jack	<i>Caranx</i>	<i>ruber</i>	subtropical		0(0)	0(0)	0(0)	0(0)	8(6)	1(1)	0(0)	
blue runner	<i>Caranx</i>	<i>crysos</i>	subtropical		0(0)	0(0)	0(0)	0(0)	0(0)	54(40)	1(1)	
crevalle jack	<i>Caranx</i>	<i>hippos</i>	subtropical		0(0)	0(0)	0(0)	0(0)	0(0)	33(33)	0(0)	
greater amberjack	<i>Seriola</i>	<i>dumerili</i>	subtropical		0(0)	0(0)	0(0)	0(0)	0(0)	209(83)	48(18)	
jack species	.	.	subtropical		0(0)	0(0)	0(0)	0(0)	50(50)	10(10)	0(0)	
lookdown	<i>Selene</i>	<i>vomer</i>	subtropical		0(0)	0(0)	0(0)	0(0)	67(67)	0(0)	0(0)	
yellow jack	<i>Caranx</i>	<i>bartholomaei</i>	subtropical		0(0)	0(0)	0(0)	0(0)	20(13)	0(0)	0(0)	
scad species	<i>Decapterus</i>	<i>species</i>	subtropical		12500(12500)	2500(2500)	4790(3536)	0(0)	0(0)	2065(900)	0(0)	
<b>Chaetodontidae</b>												
butterflyfish species	<i>Chaetodon</i>	<i>species</i>	tropical		0(0)	0(0)	0(0)	0(0)	3(3)	1(1)	1(1)	

reef butterflyfish	<i>Chaetodon</i>	<i>sedentarius</i>	subtropical	13(13)	0(0)	25(17)	13(5)	0(0)	12(3)	28(5)
spotfin butterflyfish	<i>Chaetodon</i>	<i>ocellatus</i>	tropical	145(84)	0(0)	23(10)	0(0)	12(7)	8(3)	16(5)
banded butterflyfish	<i>Chaetodon</i>	<i>striatus</i>	tropical	0(0)	0(0)	5(5)	0(0)	0(0)	0(0)	9(4)
four-eye butterflyfish	<i>Chaetodon</i>	<i>capistratus</i>	subtropical	183(183)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
<b>Cirrhitidae</b>										
redspotted hawkfish	<i>Amblycirrhitus</i>	<i>pinos</i>	tropical	0(0)	0(0)	0(0)	3(3)	0(0)	0(0)	0(0)
<b>Dactylopteridae</b>										
flying gurnard	<i>Dactylopterus</i>	<i>volitans</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)
<b>Dasyatidae</b>										
rougetail stingray	<i>Dasyatis</i>	<i>centrourea</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)
southern stingray	<i>Dasyatis</i>	<i>americana</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)
stingray species	<i>Dasyatis</i>	<i>species</i>	subtropical	0(0)	0(0)	0(0)	0(0)	1(1)	1(1)	1(1)
<b>Diodontidae</b>										
striped burrfish	<i>Chilomycterus</i>	<i>schoepfi</i>	tropical	0(0)	0(0)	1(1)	6(6)	0(0)	0(0)	0(0)
<b>Ephippidae</b>										
atlantic spadefish	<i>Chaetodipterus</i>	<i>faber</i>	subtropical	0(0)	0(0)	0(0)	0(0)	28(14)	565(349)	0(0)
<b>Fistulariidae</b>										
bluespotted cornetfish	<i>Fistularia</i>	<i>tabacaria</i>	tropical	0(0)	0(0)	0(0)	0(0)	0(0)	2(2)	0(0)
<b>Gadidae</b>										
carolina hake	<i>Urophycis</i>	<i>earlli</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)
hake species	<i>Urophycis</i>	<i>species</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	2(1)	0(0)
<b>Gerreidae</b>										
mojarra species	<i>Eucinostomus</i>	<i>species</i>	tropical	2907(2907)	0(0)	0(0)	0(0)	185(113)	0(0)	0(0)
<b>Gobiidae</b>										
blue goby	<i>Ptereleotris</i>	<i>calliurus</i>	tropical	0(0)	55(45)	4(3)	6(6)	0(0)	1(1)	0(0)
bridled goby	<i>Coryphopterus</i>	<i>glaucofraenum</i>	tropical	0(0)	10(10)	5(5)	19(14)	0(0)	1(1)	0(0)
goby species	.	.	tropical	0(0)	0(0)	14(7)	59(29)	0(0)	1(1)	1(1)
cleaning goby	<i>Gobiosoma</i>	<i>genie</i>	tropical	0(0)	0(0)	3(2)	6(6)	0(0)	0(0)	0(0)
goldspot goby	<i>Gnatholepis</i>	<i>thompsoni</i>	tropical	0(0)	0(0)	4(4)	0(0)	0(0)	0(0)	0(0)
masked goby	<i>Coryphopterus</i>	<i>personatus/hyalinus</i>	tropical	0(0)	0(0)	61(61)	0(0)	0(0)	0(0)	0(0)
spotted goby	<i>Coryphopterus</i>	<i>punctipectophorus</i>	tropical	0(0)	230(124)	48(30)	0(0)	0(0)	0(0)	0(0)
<b>Haemulidae</b>										
french grunt	<i>Haemulon</i>	<i>flavolineatum</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)
pigfish	<i>Orthopristis</i>	<i>chrysoptera</i>	temperate	0(0)	0(0)	0(0)	0(0)	11(10)	0(0)	0(0)

grunt species	<i>Haemulon</i>	<i>species</i>	tropical	0(0)	125(125)	1280(1220)	0(0)	1(1)	42(41)	3(3)
tomtate	<i>Haemulon</i>	<i>aurolineatum</i>	subtropical	2750(2750)	7074(2874)	18286(6272)	12625(12492)	2(2)	7749(1808)	248(166)
white grunt	<i>Haemulon</i>	<i>plumieri</i>	subtropical	102(45)	1825(707)	80(32)	0(0)	1(1)	234(37)	221(94)
<b>Holocentridae</b>										
blackbar soldierfish	<i>Myripristis</i>	<i>jacobus</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	5(2)	131(101)
squirrelfish	<i>Holocentrus</i>	<i>adscensionis</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	8(4)	210(132)
<b>Labridae</b>										
hogfish	<i>Lachnolaimus</i>	<i>maximus</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	13(3)	38(11)
puddingwife	<i>Halichoeres</i>	<i>radiatus</i>	tropical	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)	0(0)
tautog	<i>Tautoga</i>	<i>onitis</i>	temperate	0(0)	0(0)	0(0)	0(0)	3(2)	2(1)	0(0)
bluehead	<i>Thalassoma</i>	<i>bifasciatum</i>	tropical	0(0)	0(0)	1022(209)	351(153)	0(0)	16(9)	8(4)
clown wrasse	<i>Halichoeres</i>	<i>maculipinna</i>	tropical	0(0)	0(0)	4(2)	0(0)	0(0)	1(1)	0(0)
creole wrasse	<i>Clepticus</i>	<i>parrae</i>	tropical	0(0)	0(0)	97(58)	0(0)	0(0)	0(0)	70(67)
green razorfish	<i>Xyrichthys</i>	<i>splendens</i>	subtropical	0(0)	0(0)	6(6)	0(0)	0(0)	1(1)	0(0)
painted wrasse	<i>Halichoeres</i>	<i>caudalis</i>	subtropical	0(0)	0(0)	22(22)	0(0)	0(0)	1(1)	0(0)
rainbow wrasse	<i>Halichoeres</i>	<i>pictus</i>	tropical	0(0)	0(0)	7(6)	103(53)	0(0)	0(0)	10(9)
slippery dick	<i>Halichoeres</i>	<i>bivittatus</i>	tropical	513(209)	2786(324)	964(164)	58(40)	138(53)	83(17)	18(10)
spanish hogfish	<i>Bodianus</i>	<i>rufus</i>	tropical	0(0)	0(0)	33(15)	6(6)	0(0)	10(5)	14(5)
spotfin hogfish	<i>Bodianus</i>	<i>pulchellus</i>	tropical	0(0)	0(0)	58(19)	22(13)	0(0)	32(6)	36(10)
wrasse species	.	.	tropical	0(0)	0(0)	9(9)	109(57)	0(0)	2(1)	1(1)
yellowcheek wrasse	<i>Halichoeres</i>	<i>cianocephalus</i>	tropical	0(0)	0(0)	2(1)	54(17)	0(0)	0(0)	9(5)
yellowhead wrasse	<i>Halichoeres</i>	<i>garnoti</i>	tropical	0(0)	0(0)	286(84)	881(228)	0(0)	3(1)	39(13)
dwarf wrasse	<i>Doratonotus</i>	<i>megalepis</i>	tropical	0(0)	0(0)	0(0)	3(3)	0(0)	0(0)	0(0)
pearly razorfish	<i>Xyrichthys</i>	<i>novacula</i>	subtropical	0(0)	0(0)	4(4)	0(0)	0(0)	0(0)	0(0)
greenblotch parrot	<i>Sparisoma</i>	<i>atomarium</i>	tropical	0(0)	0(0)	12(6)	56(32)	0(0)	4(4)	3(1)
parrotfish species	.	.	tropical	0(0)	0(0)	12(12)	22(19)	0(0)	0(0)	3(2)
princess parrotfish	<i>Scarus</i>	<i>taeniopterus</i>	tropical	0(0)	0(0)	32(32)	0(0)	0(0)	1(1)	0(0)
redband parrotfish	<i>Sparisoma</i>	<i>aurofrenatum</i>	subtropical	0(0)	15(15)	13(6)	25(19)	0(0)	2(1)	4(2)
striped parrotfish	<i>Scarus</i>	<i>iserti</i>	subtropical	0(0)	25(25)	23(10)	0(0)	0(0)	1(1)	0(0)
bluelip parrotfish	<i>Cryptotomus</i>	<i>roseus</i>	tropical	0(0)	0(0)	35(31)	0(0)	0(0)	0(0)	0(0)
<b>Labrisomidae</b>										
hairy blenny	<i>Labrisomus</i>	<i>nuchipinnis</i>	tropical	0(0)	0(0)	1(1)	0(0)	0(0)	0(0)	0(0)

<b>Lutjanidae</b>											
cubera snapper	<i>Lutjanus</i>	<i>cyanopterus</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)	
gray snapper	<i>Lutjanus</i>	<i>griseus</i>	subtropical	0(0)	0(0)	0(0)	0(0)	72(48)	16(7)	1(1)	
mutton snapper	<i>Lutjanus</i>	<i>analis</i>	tropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	3(1)	
red snapper	<i>Lutjanus</i>	<i>campechanus</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	2(1)	
vermilion snapper	<i>Rhomboplites</i>	<i>aurorubens</i>	subtropical	0(0)	0(0)	81(81)	3(3)	0(0)	234(34)	221(94)	
yellowtail snapper	<i>Ocyurus</i>	<i>chrysurus</i>	subtropical	0(0)	10(7)	4(4)	0(0)	2(2)	1(1)	0(0)	
<b>Malacanthidae</b>											
sand tilefish	<i>Malacanthus</i>	<i>plumieri</i>	subtropical	0(0)	0(0)	0(0)	3(3)	0(0)	0(0)	16(5)	
<b>Molidae</b>											
ocean sunfish	<i>Mola</i>	<i>mola</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)	
<b>Mulgilidae</b>											
mullet species	<i>Mugil</i>	<i>species</i>	tropical	0(0)	0(0)	0(0)	0(0)	11(11)	0(0)	0(0)	
<b>Mullidae</b>											
dwarf goatfish	<i>Upeneus</i>	<i>parvus</i>	tropical	0(0)	0(0)	32(29)	0(0)	0(0)	1(1)	0(0)	
spotted goatfish	<i>Pseudupeneus</i>	<i>maculatus</i>	subtropical	0(0)	0(0)	4(4)	3(3)	0(0)	8(5)	6(3)	
<b>Muraenidae</b>											
moray species	<i>Gymnothorax</i>	<i>species</i>	tropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	1(1)	
<b>Odontaspidae</b>											
sand tiger	<i>Odontaspis</i>	<i>taurus</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	9(8)	0(0)	
<b>Ophichthidae</b>											
goldspotted eel	<i>Myrichthys</i>	<i>ocellatus</i>	tropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)	
sharptail eel	<i>Myrichthys</i>	<i>breviceps</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)	
<b>Orectolobidae</b>											
nurse shark	<i>Ginglymostoma</i>	<i>cirratum</i>	subtropical	0(0)	0(0)	0(0)	0(0)	17(17)	1(1)	0(0)	
<b>Ostraciidae</b>											
smooth trunkfish	<i>Lactophrys</i>	<i>triqueter</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	
<b>Palinuridae</b>											
spiny lobster	<i>Panulirus</i>	<i>argus</i>	tropical	0(0)	0(0)	0(0)	0(0)	0(0)	12(4)	19(7)	
<b>Paralichthyidae</b>											
flounder species	<i>Paralichthys</i>	<i>species</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	5(5)	0(0)	

<b>Pomacanthidae</b>											
french angelfish	<i>Pomacanthus</i>	<i>paru</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	2(1)	11(3)	
gray angelfish	<i>Pomacanthus</i>	<i>arcuatus</i>	tropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)	
blue angelfish	<i>Holacanthus</i>	<i>bermudensis</i>	subtropical	0(0)	0(0)	33(9)	3(3)	0(0)	48(7)	50(8)	
cherubfish	<i>Centropyge</i>	<i>argi</i>	subtropical	0(0)	0(0)	1(1)	38(27)	0(0)	0(0)	1(1)	
queen angelfish	<i>Holacanthus</i>	<i>ciliaris</i>	subtropical	0(0)	0(0)	35(14)	14(14)	0(0)	12(3)	9(3)	
rock beauty	<i>Holacanthus</i>	<i>tricolor</i>	tropical	0(0)	0(0)	0(0)	13(9)	0(0)	1(1)	25(7)	
angelfish species	<i>Holacanthus</i>	<i>species</i>	subtropical	0(0)	0(0)	5(5)	0(0)	0(0)	0(0)	0(0)	
<b>Pomacentridae</b>											
bicolor damselfish	<i>Stegastes</i>	<i>partitus</i>	tropical	0(0)	0(0)	392(103)	305(65)	0(0)	7(5)	12(4)	
blue chromis	<i>Chromis</i>	<i>cyanea</i>	tropical	0(0)	0(0)	202(124)	625(625)	0(0)	25(18)	0(0)	
cocoa damselfish	<i>Stegastes</i>	<i>variabilis</i>	tropical	13(13)	90(39)	229(66)	0(0)	0(0)	5(2)	1(1)	
purple reeffish	<i>Chromis</i>	<i>scotti</i>	tropical	0(0)	0(0)	4864(727)	2264(1591)	0(0)	166(49)	18(12)	
sunshinefish	<i>Chromis</i>	<i>insolatus</i>	tropical	0(0)	0(0)	52(18)	221(120)	0(0)	1(1)	18(17)	
yellowtail reeffish	<i>Chromis</i>	<i>enchrysurus</i>	tropical	0(0)	15(11)	1216(207)	1962(797)	0(0)	11(5)	38(22)	
beaugregory	<i>Stegastes</i>	<i>leucostictus</i>	tropical	0(0)	0(0)	10(6)	0(0)	0(0)	0(0)	0(0)	
brown chromis	<i>Chromis</i>	<i>multilineatus</i>	tropical	0(0)	0(0)	2(2)	131(125)	0(0)	0(0)	0(0)	
chromis species	<i>Chromis</i>	<i>species</i>	tropical	0(0)	0(0)	1(1)	0(0)	0(0)	0(0)	0(0)	
damselfish species	<i>Stegastes</i>	<i>species</i>	tropical	0(0)	0(0)	76(76)	6(6)	0(0)	0(0)	0(0)	
sergeant major	<i>Abudefduf</i>	<i>saxatilis</i>	tropical	13(13)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	
yellowtail damselfish	<i>Microspathodon</i>	<i>chrysurus</i>	subtropical	0(0)	0(0)	2(2)	0(0)	0(0)	0(0)	0(0)	
<b>Pomatomidae</b>											
bluefish	<i>Pomatomus</i>	<i>saltatrix</i>	subtropical	0(0)	0(0)	0(0)	0(0)	38(27)	0(0)	0(0)	
<b>Priacanthidae</b>											
bigeye	<i>Priacanthus</i>	<i>arenatus</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	6(2)	72(24)	
glasseye snapper	<i>Heteropriacanthus</i>	<i>cruentatus</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	10(5)	
short bigeye	<i>Pristigenys</i>	<i>alta</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	1(1)	
<b>Rachycentridae</b>											
cobia	<i>Rachycentron</i>	<i>canadum</i>	subtropical	0(0)	0(0)	0(0)	0(0)	2(2)	1(1)	1(1)	
<b>Sciaenidae</b>											
croaker	<i>Bairdiella</i>	<i>species</i>	subtropical	0(0)	0(0)	0(0)	0(0)	63(43)	0(0)	0(0)	
spotted drum	<i>Equetus</i>	<i>punctatus</i>	tropical	0(0)	0(0)	0(0)	0(0)	259(216)	0(0)	0(0)	
cubbyu	<i>Pareques</i>	<i>umbrosus</i>	subtropical	25(25)	721(311)	282(101)	25(25)	0(0)	178(27)	11(11)	
jackknife fish	<i>Equetus</i>	<i>lanceolatus</i>	tropical	0(0)	0(0)	4(3)	0(0)	0(0)	1(1)	47(26)	
<b>Scombridae</b>											
little tunny	<i>Euthynnus</i>	<i>alletteratus</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	9(9)	0(0)	
mackerel species	<i>Scomberomorus</i>	<i>species</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	3(3)	0(0)	
spanish mackerel	<i>Scomberomorus</i>	<i>maculatus</i>	subtropical	0(0)	0(0)	0(0)	0(0)	55(55)	0(0)	5(5)	

<b>Scorpaenidae</b>											
lionfish	<i>Pterois</i>	<i>volitans</i>	tropical	0(0)	0(0)	3(2)	6(6)	0(0)	85(15)	176(25)	
scorpionfish species	<i>Scorpaena</i>	<i>species</i>	tropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)	
spotted scorpionfish	<i>Scorpaena</i>	<i>plumieri</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)	
<b>Scyllaridae</b>											
regal slipper lobster	<i>Arctides</i>	<i>guineensis</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	2(1)	1(1)	
<b>Serranidae</b>											
black grouper	<i>Mycteroperca</i>	<i>bonaci</i>	tropical	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	
coney	<i>Cephalopholis</i>	<i>fulva</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	5(3)	
gag	<i>Mycteroperca</i>	<i>microlepis</i>	subtropical	0(0)	0(0)	0(0)	0(0)	83(39)	92(14)	8(5)	
greater soapfish	<i>Rypticus</i>	<i>saponaceus</i>	tropical	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	6(4)	
red grouper	<i>Epinephelus</i>	<i>morio</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	9(2)	9(2)	
red hind	<i>Epinephelus</i>	<i>guttatus</i>	tropical	0(0)	0(0)	2(2)	0(0)	0(0)	0(0)	3(2)	
yellowfin grouper	<i>Mycteroperca</i>	<i>venenosa</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	
bank sea bass	<i>Centropristis</i>	<i>ocyrurus</i>	subtropical	0(0)	10(10)	208(111)	0(0)	0(0)	97(21)	14(14)	
belted sandfish	<i>Serranus</i>	<i>subligarius</i>	subtropical	988(650)	1228(135)	288(87)	0(0)	91(77)	29(7)	7(5)	
black sea bass	<i>Centropristis</i>	<i>striata</i>	temperate	220(140)	245(92)	21(13)	0(0)	509(286)	210(57)	1(1)	
graysby	<i>Cephalopholis</i>	<i>cruentatus</i>	subtropical	0(0)	0(0)	3(3)	0(0)	0(0)	7(2)	36(8)	
harlequin bass	<i>Serranus</i>	<i>tigrinus</i>	tropical	0(0)	0(0)	52(17)	10(8)	0(0)	2(1)	2(1)	
lantern bass	<i>Serranus</i>	<i>baldwini</i>	tropical	0(0)	0(0)	55(18)	153(44)	0(0)	1(1)	6(4)	
orangeback bass	<i>Serranus</i>	<i>annularis</i>	tropical	0(0)	0(0)	11(6)	0(0)	0(0)	0(0)	1(1)	
rock hind	<i>Epinephelus</i>	<i>adscensionis</i>	tropical	0(0)	0(0)	2(2)	0(0)	0(0)	4(1)	21(8)	
sand perch	<i>Diplectrum</i>	<i>formosum</i>	subtropical	0(0)	0(0)	16(8)	34(26)	101(100)	0(0)	1(1)	
scamp	<i>Mycteroperca</i>	<i>phenax</i>	subtropical	0(0)	5(5)	0(0)	0(0)	0(0)	83(12)	60(16)	
soapfish species	<i>Rypticus</i>	<i>species</i>	tropical	0(0)	0(0)	6(6)	0(0)	0(0)	2(1)	7(5)	
tattler bass	<i>Serranus</i>	<i>phoebe</i>	subtropical	0(0)	0(0)	10(5)	125(44)	0(0)	3(2)	4(2)	
tobaccofish	<i>Serranus</i>	<i>tabacarius</i>	subtropical	0(0)	0(0)	0(0)	3(3)	0(0)	0(0)	1(1)	
whitespotted soapfish	<i>Rypticus</i>	<i>maculatus</i>	subtropical	0(0)	15(11)	9(4)	0(0)	0(0)	8(2)	9(4)	
wrasse basslet	<i>Liopropoma</i>	<i>eukrines</i>	subtropical	0(0)	0(0)	45(13)	0(0)	0(0)	1(1)	1(1)	
yellowmouth grouper	<i>Mycteroperca</i>	<i>interstitialis</i>	subtropical	0(0)	0(0)	1(1)	0(0)	0(0)	3(1)	39(12)	
barred hamlet	<i>Hypoplectrus</i>	<i>puella</i>	tropical	0(0)	0(0)	71(71)	0(0)	0(0)	0(0)	0(0)	
saddle bass	<i>Serranus</i>	<i>notospilus</i>	subtropical	0(0)	0(0)	1(1)	0(0)	0(0)	0(0)	0(0)	
sea bass species	<i>Serranus</i>	<i>species</i>	tropical	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)	
snow bass	<i>Serranus</i>	<i>chionaraia</i>	tropical	0(0)	0(0)	2(2)	11(11)	0(0)	0(0)	0(0)	
twinspot bass	<i>Serranus</i>	<i>flaviventris</i>	tropical	0(0)	0(0)	1(1)	0(0)	0(0)	0(0)	0(0)	

<b>Sparidae</b>											
jolthead porgy	<i>Calamus</i>	<i>bajonado</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	2(1)	1(1)	
littlehead porgy	<i>Calamus</i>	<i>proridens</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	3(2)	
pinfish	<i>Lagodon</i>	<i>rhomboides</i>	subtropical	0(0)	0(0)	0(0)	0(0)	86(43)	4(3)	0(0)	
saucereye porgy	<i>Calamus</i>	<i>calamus</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	3(2)	6(4)	
sea bream	<i>Archosargus</i>	<i>rhomboidalis</i>	subtropical	0(0)	0(0)	0(0)	0(0)	6(6)	0(0)	0(0)	
sheepshead	<i>Archosargus</i>	<i>probatocephalus</i>	subtropical	0(0)	0(0)	0(0)	0(0)	366(172)	8(2)	0(0)	
whitebone porgy	<i>Calamus</i>	<i>leucosteus</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)	
porgy species	<i>Calamus</i>	<i>species</i>	tropical	0(0)	5500(4969)	2(2)	3(3)	0(0)	219(164)	44(10)	
knobbed porgy	<i>Calamus</i>	<i>nodus</i>	subtropical	0(0)	0(0)	5(5)	0(0)	0(0)	2(1)	16(7)	
longspine porgy	<i>Stenotomus</i>	<i>caprinus</i>	subtropical	0(0)	20(20)	2(2)	0(0)	0(0)	4(4)	0(0)	
red porgy	<i>Pagrus</i>	<i>pagrus</i>	subtropical	0(0)	3000(2494)	61(61)	47(47)	0(0)	830(820)	42(16)	
scup	<i>Stenotomus</i>	<i>chrysops</i>	subtropical	0(0)	300(249)	0(0)	0(0)	154(148)	4(3)	0(0)	
spot tail pinfish	<i>Diplodus</i>	<i>holbrookii</i>	subtropical	17035(13901)	374(295)	39(39)	0(0)	1774(971)	719(270)	20(20)	
<b>Sphyraenidae</b>											
great barracuda	<i>Sphyraena</i>	<i>barracuda</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	7(7)	
barracuda species	<i>Sphyraena</i>	<i>species</i>	subtropical	0(0)	6(6)	0(0)	0(0)	0(0)	0(0)	0(0)	
<b>Stomatopoda</b>											
mantis shrimp	.	.	subtropical	0(0)	0(0)	0(0)	3(3)	0(0)	0(0)	0(0)	
<b>Synodontidae</b>											
sand diver	<i>Synodus</i>	<i>intermedius</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	14(13)	0(0)	
snakefish	<i>Trachinocephalus</i>	<i>myops</i>	tropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)	
lizardfish species	<i>Synodus</i>	<i>species</i>	subtropical	0(0)	0(0)	2(2)	0(0)	0(0)	0(0)	0(0)	
<b>Tetraodontidae</b>											
porcupinefish	<i>Diodon</i>	<i>hystrix</i>	subtropical	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)	1(1)	
bandtail puffer	<i>Sphoeroides</i>	<i>spengleri</i>	subtropical	0(0)	10(10)	24(11)	28(25)	0(0)	2(1)	5(3)	
sharpnose puffer	<i>Canthigaster</i>	<i>rostrata</i>	tropical	0(0)	0(0)	0(0)	0(0)	0(0)	3(1)	6(2)	
<b>Triglidae</b>											
searobin species	<i>Prionotus</i>	<i>species</i>	subtropical	0(0)	0(0)	0(0)	0(0)	0(0)	1(1)	0(0)	

<sup>a</sup>From published sources in FishBase (Froese & Pauly 2014)