

Comparing relative abundance, lengths, and habitat of temperate reef fishes using simultaneous underwater visual census, video, and trap sampling

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Marine Ecology Progress Series 574: 141–155 (2017)

Table S1. Mean density (number of individuals per 300 m²) from underwater visual census (UVC), mean video counts (mean number of individuals observed on 41 video frames across both video cameras), and mean trap catch of various fish species encountered during multi-gear sampling on the East Coast of Florida, 2014.

Taxa	UVC density (rank)	Video counts (rank)	Trap catch (rank)
Tomtate (<i>Haemulon aurolineatum</i>)	112.251 (1)	836.22 (1)	41.14 (1)
<i>Decapterus</i> spp.	28.143 (2)	728.47 (2)	0.00
Vermilion snapper (<i>Rhomboplites aurorubens</i>)	17.173 (3)	111.61 (3)	0.74 (4)
Black sea bass (<i>Centropristis striata</i>)	6.961 (4)	21.52 (4)	12.05 (2)
Cubbyu (<i>Pareques umbrosus</i>)	6.117 (5)	1.18 (21)	0.01 (14)
Blue runner (<i>Caranx crysos</i>)	3.190 (6)	0.18 (50)	0.00
Lionfish (<i>Pterois</i> spp.)	2.100 (7)	3.49 (12)	0.00
Gray snapper (<i>Lutjanus griseus</i>)	1.861 (8)	4.44 (11)	0.00
Red snapper (<i>Lutjanus campechanus</i>)	1.693 (9)	10.34 (5)	1.38 (3)
Porkfish (<i>Anisotremus virginicus</i>)	1.351 (10)	1.83 (17)	0.00
<i>Calamus</i> spp.	1.389 (11)	5.74 (8)	0.00
Atlantic spadefish (<i>Chaetodipterus faber</i>)	1.130 (12)	0.18 (50)	0.00
Greater amberjack (<i>Seriola dumerili</i>)	1.061 (13)	0.87 (28)	0.00
Gray triggerfish (<i>Balistes capriscus</i>)	1.048 (14)	8.08 (6)	0.64 (5)
Blue angelfish (<i>Holocanthus bermudensis</i>)	0.671 (15)	2.27 (15)	0.01 (14)
Sheepshead (<i>Archosargus probatocephalus</i>)	0.654 (16)	1.96 (16)	0.00
Sand perch (<i>Diplectrum formosum</i>)	0.563 (17)	6.66 (7)	0.10 (6)
Squirrelfish (<i>Holocentrus adscensionis</i>)	0.394 (18)	1.38 (19)	0.04 (9)
Spotfin hogfish (<i>Bodianus pulchellus</i>)	0.338 (19)	0.52 (31)	0.00
Whitespotted soapfish (<i>Rypticus maculatus</i>)	0.333 (20)	0.14 (55)	0.01 (14)
Banded rudderfish (<i>Seriola zonata</i>)	0.325 (21)	0.01 (79)	0.00
Doctorfish (<i>Acanthurus chirurgus</i>)	0.316 (22)	0.23 (45)	0.00
Atlantic bumper (<i>Chloroscombrus chrysurus</i>)	0.195 (23)	0.27 (41)	0.00
Blackbar soldierfish (<i>Myripristis jacobus</i>)	0.165 (24)	0.05 (65)	0.00
Bar jack (<i>Caranx ruber</i>)	0.165 (24)	0.49 (33)	0.00
Painted wrasse (<i>Halichoeres caudalis</i>)	0.165 (24)	0.00	0.00
Spanish hogfish (<i>Bodianus rufus</i>)	0.152 (27)	0.30 (38)	0.00
Reef butterflyfish (<i>Chaetodon sedentarius</i>)	0.130 (28)	1.71 (18)	0.00
Bank sea bass (<i>Centropristis ocyurus</i>)	0.113 (29)	0.05 (65)	0.04 (9)
Emerald parrotfish (<i>Nicholsina usta</i>)	0.113 (29)	2.49 (14)	0.00
Graysby (<i>Cephalopholis cruentata</i>)	0.095 (31)	0.29 (40)	0.00
Lane snapper (<i>Lutjanus synagris</i>)	0.095 (31)	1.09 (23)	0.01 (14)

Taxa	UVC density (rank)	Video counts (rank)	Trap catch (rank)
Spotted scorpionfish (<i>Scorpaena plumieri</i>)	0.095 (31)	0.00	0.00
Purplemouth moray (<i>Gymnothorax vicinus</i>)	0.091 (34)	0.06 (63)	0.05 (8)
White grunt (<i>Haemulon plumieri</i>)	0.091 (34)	0.21 (48)	0.00
Reticulate moray (<i>Muraena retifera</i>)	0.082 (36)	0.00	0.00
Queen angelfish (<i>Holacanthus ciliaris</i>)	0.078 (37)	0.84 (29)	0.00
Short bigeye (<i>Pristigenys alta</i>)	0.074 (38)	0.00	0.00
Little tunny (<i>Euthynnus alletteratus</i>)	0.074 (38)	0.00	0.00
Pinfish (<i>Lagodon rhomboides</i>)	0.069 (40)	4.51 (10)	0.03 (13)
Spotted goatfish (<i>Pseudupeneus maculatus</i>)	0.069 (40)	0.27 (41)	0.00
Bandtail puffer (<i>Sphoeroides spengleri</i>)	0.065 (42)	1.08 (24)	0.00
Jackknife-fish (<i>Equetus lanceolatus</i>)	0.065 (42)	0.03 (72)	0.00
Slippery dick (<i>Halichoeres bivittatus</i>)	0.061 (44)	5.39 (9)	0.00
Yellow jack (<i>Caranx bartholomaei</i>)	0.061 (44)	0.27 (41)	0.00
Black margate (<i>Anisotremus surinamensis</i>)	0.056 (46)	0.00	0.00
Scrawled cowfish (<i>Acanthostracion quadricornis</i>)	0.056 (46)	0.10 (57)	0.00
<i>Paralichthys</i> spp.	0.052 (48)	0.38 (34)	0.01 (14)
Oyster toadfish (<i>Opsanus tau</i>)	0.052 (48)	0.00	0.01 (14)
Gag (<i>Mycteroperca microlepis</i>)	0.048 (50)	0.08 (62)	0.00
Spotfin butterflyfish (<i>Chaetodon ocellatus</i>)	0.048 (50)	0.97 (27)	0.04 (9)
Greater soapfish (<i>Rypticus saponaceus</i>)	0.043 (52)	0.05 (65)	0.00
Sharksucker (<i>Echeneis naucrates</i>)	0.039 (53)	0.23 (45)	0.08 (7)
Scamp (<i>Mycteroperca phenax</i>)	0.039 (53)	0.03 (72)	0.00
Planehead filefish (<i>Stephanolepis hispidus</i>)	0.039 (53)	0.51 (32)	0.04 (9)
Ocean surgeonfish (<i>Acanthurus bahianus</i>)	0.035 (56)	0.17 (54)	0.00
Red porgy (<i>Pagrus pagrus</i>)	0.035 (56)	0.10 (57)	0.00
Mutton snapper (<i>Lutjanus analis</i>)	0.030 (58)	0.04 (69)	0.00
French angelfish (<i>Pomacanthus paru</i>)	0.026 (59)	0.03 (72)	0.00
Great barracuda (<i>Sphyraena barracuda</i>)	0.026 (59)	0.00	0.00
Wrasse basslet (<i>Liopropoma eukrines</i>)	0.026 (59)	0.00	0.00
High-hat (<i>Pareques acuminatus</i>)	0.022 (62)	0.00	0.00
Orangespotted filefish (<i>Cantherhines pullus</i>)	0.022 (62)	0.00	0.00
Blue dartfish (<i>Ptereleotris calliura</i>)	0.017 (64)	0.60 (30)	0.00
Green moray (<i>Gymnothorax funebris</i>)	0.017 (64)	0.00	0.00
Red grouper (<i>Epinephelus morio</i>)	0.017 (64)	0.00	0.00
Yellowtail parrotfish (<i>Sparisoma rubripinne</i>)	0.017 (64)	0.04 (69)	0.00
Redtail parrotfish (<i>Sparisoma chrysopterum</i>)	0.013 (68)	0.00	0.00
Atlantic guitarfish (<i>Rhinobatos lentiginosus</i>)	0.013 (68)	0.00	0.00
Barbfish (<i>Scorpaena brasiliensis</i>)	0.013 (68)	0.00	0.00
Inshore lizardfish (<i>Synodus foetens</i>)	0.013 (68)	0.00	0.00
Nurse shark (<i>Ginglymostoma cirratum</i>)	0.013 (68)	0.01 (79)	0.00
Spottail pinfish (<i>Diplodus holbrookii</i>)	0.013 (68)	0.31 (36)	0.00
Yellowtail snapper (<i>Ocyurus chrysurus</i>)	0.013 (68)	0.09 (59)	0.00
Almaco jack (<i>Seriola rivoliana</i>)	0.009 (75)	0.31 (36)	0.00
Cobia (<i>Rachycentron canadum</i>)	0.009 (75)	0.03 (72)	0.00
French grunt (<i>Haemulon flavolineatum</i>)	0.009 (75)	0.00	0.00
Goliath grouper (<i>Epinephelus itajara</i>)	0.009 (75)	0.00	0.00
Hogfish (<i>Lachnolaimus maximus</i>)	0.009 (75)	0.00	0.00
Spanish mackerel (<i>Scomberomorus maculatus</i>)	0.009 (75)	0.00	0.00
Atlantic sharpnose shark (<i>Rhizoprionodon terraenovae</i>)	0.004 (81)	0.01 (79)	0.00
Blue tang (<i>Acanthurus coeruleus</i>)	0.004 (81)	0.00	0.00
Bluelip parrotfish (<i>Cryptotomus roseus</i>)	0.004 (81)	0.00	0.00
Caesar grunt (<i>Haemulon carbonarium</i>)	0.004 (81)	0.00	0.00
<i>Carcharhinus</i> spp.	0.004 (81)	0.00	0.00

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Cottonwick (<i>Haemulon melanurum</i>)	0.004 (81)	0.00	0.00
Goldspotted eel (<i>Myrichthys ocellatus</i>)	0.004 (81)	0.00	0.00
Pigfish (<i>Orthopristis chrysoptera</i>)	0.004 (81)	0.03 (72)	0.01 (14)
Rainbow parrotfish (<i>Scarus guacamaia</i>)	0.004 (81)	0.00	0.00
Red hind (<i>Epinephelus guttatus</i>)	0.004 (81)	0.00	0.00
Redband parrotfish (<i>Sparisoma aurofrenatum</i>)	0.004 (81)	0.00	0.00
Rock hind (<i>Epinephelus adscensionis</i>)	0.004 (81)	0.06 (63)	0.00
Sand diver (<i>Synodus intermedius</i>)	0.004 (81)	0.00	0.00
Sandbar shark (<i>Carcharhinus plumbeus</i>)	0.004 (81)	0.01 (79)	0.00
Schoolmaster (<i>Lutjanus apodus</i>)	0.004 (81)	0.00	0.00
Scrawled filefish (<i>Aluterus scriptus</i>)	0.004 (81)	0.00	0.00
Stout moray (<i>Muraena robusta</i>)	0.004 (81)	0.00	0.00
Tattler (<i>Serranus phoebe</i>)	0.004 (81)	0.26 (44)	0.00
Hybrid angelfish (<i>H. ciliaris</i> × <i>H. bermudensis</i>)	0.004 (81)	0.09 (59)	0.00
Yellowhead wrasse (<i>Halichoeres garnoti</i>)	0.004 (81)	0.00	0.00
Unicorn filefish (<i>Aluterus monoceros</i>)	0.00	0.38 (34)	0.00
Spinner shark (<i>Carcharhinus brevipinna</i>)	0.00	0.30 (38)	0.00
<i>Stenotomus</i> spp.	0.00	0.23 (45)	0.00
Lantern bass (<i>Serranus baldwini</i>)	0.00	0.21 (48)	0.00
Belted sandfish (<i>Serranus subligarius</i>)	0.00	0.18 (50)	0.00
Threespot damselfish (<i>Stegastes planifrons</i>)	0.00	0.18 (50)	0.00
Polka-dot batfish (<i>Ogcocephalus cubifrons</i>)	0.00	0.12 (56)	0.00
Yellow goatfish (<i>Mulloidichthys martinicus</i>)	0.00	0.09 (59)	0.00
Bull shark (<i>Carcharhinus leucas</i>)	0.00	0.03 (72)	0.00
Margate (<i>Haemulon album</i>)	0.00	0.03 (72)	0.00
Dusky damselfish (<i>Stegastes fuscus</i>)	0.00	0.01 (79)	0.00
Lesser amberjack (<i>Seriola fasciata</i>)	0.00	0.01 (79)	0.00
<i>Ogcocephalus</i> spp.	0.00	0.01 (79)	0.00
Palespotted eel (<i>Ophichthus puncticeps</i>)	0.00	0.01 (79)	0.00
Slender suckerfish (<i>Phtheichthys lineatus</i>)	0.00	0.01 (79)	0.00
Southern puffer (<i>Sphoeroides nephelus</i>)	0.00	0.01 (79)	0.00
Spinner shark (<i>Carcharhinus brevipinna</i>)	0.00	0.04 (69)	0.00