

Mediterranean Marine Science

Vol 18, No 1 (2017)



An update on the feeding habits of fish in the Mediterranean Sea (2002-2015)

P. K. KARACHLE, K. I. STERGIUO

doi: [10.12681/mms.1968](https://doi.org/10.12681/mms.1968)

To cite this article:

KARACHLE, P. K., & STERGIUO, K. I. (2017). An update on the feeding habits of fish in the Mediterranean Sea (2002-2015). *Mediterranean Marine Science*, 18(1), 43–52. <https://doi.org/10.12681/mms.1968>

Table B. Mean trophic level (TROPH) estimates for 87 fishes common in Stergiou & Karpouzi (2002) and the present study. FTG=functional trophic group; H=pure herbivore (2.0<TROPH<2.1); OV= omnivore with preference to plants (2.1<TROPH<2.9); OA=omnivore with preference to animal material (2.9<TROPH<3.7); CD=carnivore with preference to decapods and fish (3.7<TROPH<4.0); and CC=carnivore with preference to fish and cephalopods (4.0<TROPH<4.5).

Species	Stergiou & Karpouzi (2002)		present study		Change in FTG
	TROPH	FTG	TROPH	FTG	
<i>Apogon imberbis</i>	3.98	CD	3.54	OA	x
<i>Arnoglossus laterna</i>	3.5	OA	3.73	CD	x
<i>Arnoglossus thori</i>	3.29	OA	3.61	OA	
<i>Boops boops</i>	2.92	OA	3.52	OA	
<i>Bothus podas</i>	3.41	OA	3.41	OA	
<i>Buglossidium luteum</i>	3.2	OA	3.21	OA	
<i>Cepola macrophthalmia</i>	3.11	OA	3.08	OA	
<i>Chelidonichthys lucerna</i>	3.57	OA	3.74	CD	x
<i>Chelidonichthys obscurus</i>	3.54	OA	3.28	OA	
<i>Chromis chromis</i>	3.7	OA	3.25	OA	
<i>Citharus linguatula</i>	3.8	CD	4.18	CC	x
<i>Coelorinchus caelorhincus</i>	3.32	OA	3.2	OA	
<i>Conger conger</i>	3.7	OA	4.2	CC	x
<i>Coris julis</i>	3.38	OA	3.42	OA	
<i>Dalatias licha</i>	4.35	CC	4.5	CC	
<i>Dentex dentex</i>	4.5	CC	4.49	CC	
<i>Diplodus annularis</i>	3.36	OA	3.03	OA	
<i>Diplodus puntazzo</i>	3	OA	3.14	OA	
<i>Diplodus sargus</i>	3.17	OA	3.28	OA	
<i>Diplodus vulgaris</i>	3.31	OA	3.14	OA	
<i>Engraulis encrasicolus</i>	3.43	OA	3.05	OA	
<i>Epinephelus marginatus</i>	3.91	CD	4.2	CC	x
<i>Etmopterus spinax</i>	4.07	CC	3.93	CD	x
<i>Euthynnus alletteratus</i>	4.5	CC	4.44	CC	
<i>Eutrigla gurnardus</i>	3.58	OA	3.58	OA	
<i>Gaidropsarus biscayensis</i>	3.58	OA	3.93	CD	x
<i>Gaidropsarus mediterraneus</i>	3.42	OA	3.95	CD	x
<i>Galeus melastomus</i>	4	CD	3.92	CD	
<i>Gnathophis mystax</i>	3.67	OA	3.51	OA	
<i>Gobius niger</i>	3.32	OA	3.56	OA	
<i>Hippocampus hippocampus</i>	3.15	OA	3.2	OA	
<i>Hymenocephalus italicus</i>	3.3	OA	3.22	OA	
<i>Labrus viridis</i>	3.84	CD	3.56	OA	x
<i>Lepidotrigla cavillone</i>	3.28	OA	3.5	OA	
<i>Lithognathus mormyrus</i>	3.4	OA	3.15	OA	
<i>Lophius budegassa</i>	4.15	CC	4.43	CC	
<i>Lophius piscatorius</i>	4.3	CC	4.48	CC	
<i>Merluccius merluccius</i>	4.09	CC	4.08	CC	
<i>Micromesistius poutassou</i>	3.89	CD	4.18	CC	x
<i>Mullus barbatus</i>	3.27	OA	3.37	OA	
<i>Mullus surmuletus</i>	3.38	OA	3.31	OA	
<i>Nezumia aequalis</i>	3.27	OA	3.18	OA	
<i>Oblada melanura</i>	3.1	OA	3.31	OA	
<i>Pagellus acarne</i>	3.56	OA	3.84	CD	x
<i>Pagellus bogaraveo</i>	3.47	OA	4.43	CC	x
<i>Pagellus erythrinus</i>	3.36	OA	3.41	OA	
<i>Pagrus pagrus</i>	3.75	CD	3.36	OA	x
<i>Parablennius gattorugine</i>	3	OA	2.11	OV	x
<i>Phycis blennoides</i>	3.77	CD	3.71	CD	
<i>Raja miraletus</i>	3.9	CD	3.56	OA	x
<i>Raja radula</i>	3.9	CD	3.9	CD	
<i>Rhinobatos rhinobatos</i>	4.05	CC	3.92	CD	x
<i>Sarda sarda</i>	4.5	CC	4.47	CC	
<i>Sardina pilchardus</i>	3.15	OA	2.67	OV	x
<i>Sargocentron rubrum</i>	3.5	OA	3.36	OA	
<i>Sarpa salpa</i>	2.13	OV	2	H	x
<i>Saurida undosquamis</i>	4.15	CC	4.5	CC	
<i>Sciaena umbra</i>	3.8	CD	3.52	OA	x
<i>Scomber scombrus</i>	3.9	CD	4.37	CC	x
<i>Scorpaena notata</i>	3.48	OA	3.54	OA	
<i>Scorpaena porcus</i>	3.77	CD	3.86	CD	
<i>Scorpaena scrofa</i>	4.19	CC	4.18	CC	
<i>Scyliorhinus canicula</i>	3.8	CD	4.06	CC	x
<i>Serranus cabrilla</i>	3.71	CD	3.87	CD	
<i>Serranus hepatus</i>	3.61	OA	3.67	OA	

<i>Serranus scriba</i>	3.79	CD	3.94	CD	
<i>Siganus luridus</i>	2	H	2	H	
<i>Siganus rivulatus</i>	2	H	2	H	
<i>Solea solea</i>	3.08	OA	2.91	OA	
<i>Spicara maena</i>	3.19	OA	3.27	OA	
<i>Spicara smaris</i>	3.05	OA	3.49	OA	
<i>Spondylisoma cantharus</i>	3.29	OA	3.48	OA	
<i>Symphodus ocellatus</i>	3.24	OA	3.57	OA	
<i>Symphodus tinca</i>	3.2	OA	3.27	OA	
<i>Symphurus nigrescens</i>	3.31	OA	3.35	OA	
<i>Syngnathus typhle</i>	4.31	CC	3.51	OA	x
<i>Synodus saurus</i>	4.2	CC	4.5	CC	
<i>Torpedo marmorata</i>	4.48	CC	4.45	CC	
<i>Torpedo torpedo</i>	4.42	CC	4.13	CC	
<i>Trachurus mediterraneus</i>	3.5	OA	3.69	OA	
<i>Trachurus trachurus</i>	3.65	OA	3.83	CD	x
<i>Trachyrincus scabrus</i>	3.53	OA	3.14	OA	
<i>Trigloporus lastoviza</i>	3.54	OA	3.41	OA	
<i>Trisopterus capelanus</i>	3.65	OA	3.89	CD	x
<i>Uranoscopus scaber</i>	3.9	CD	4.38	CC	x
<i>Xiphias gladius</i>	4.5	CC	4.42	CC	
<i>Zeus faber</i>	4.45	CC	4.48	CC	
