FISH FAUNA OF THE MARKIZ ISLAND (ÇANDARLI BAY, AEGEAN SEA)

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Abstract
In order to establish benthic and pelagic marine fish in the vicinity of Markiz Island, compherensive submarine observations were conducted by diving with and without scubas. Beside that a 30 minute trawl hauling was made to collect benthic species in north east of the island, with 70 fish species of 25 family being determined.
Keywords: Aegean Sea, Fishes, Teleostei

Introduction
Northern part of Aegean Sea is under the influence of cool and less saline currents from Black Sea while the southern part is influenced by warm and salty currents. The study area is geographical transition between both seas. The differences observed in ecological features of Aegean Sea were suited to this geographical properties. It is possible to describe its middle section as a transitive zone, therefore there is a rich biological diversity in Aegean Sea where more than 300 fish species and some 5000 invertabrate were reported [1]. Recent lists have included new records a total of 389 marine fish, which indicates that Aegean Sea ranks on the top of the list of species among Marmara, Mediterranean and Black Seas coasts of Turkey [2]. Papaconstantinous [3] however reports that 447 marine species inhabit Greece Seas. This study aims to establish fish species in the vicinity of Markiz Island.

Material and Methods
In order to establish benthic and pelagic marine fish in the vicinity of Markiz Island, located in the enterence of Çandarli Bay in Aegean coast of Turkey, submarine observations were conducted by diving with and without scubas in 2007. Beside that a 30 minute trawl hauling was carried on to collect benthic species in north east of the island, with fish collected being asssessed in two categories, namely benthic and pelagic. Taxanomic categories used for fish considered [4], [5] and [6].

Results and Discussion
70 fish species of 25 family were determined and collected fish being asssessed in two categories, namely benthic and pelagic. Table 1 includes pelagic species and Table 2 shows demersal species. Sparidae family was the highest in number, followed by Labridae with 10 and Mugilidae with 5 species. These fish species were well known fish fauna in the Mediterranean Sea [2].

Tab. 1. Pelagic fish fauna of Markiz Island

FAMILIA	SPECIES
Clupeidae	*Sardina pilchardus*
Engraulidae	*Engraulis encrasicolus*
Belonidae	*Belone belone*
Pomatomidae	*Pomatomus saltator*
Carangidae	*Trachurus trachurus*
	Trachurus mediterraneus
	Lichia amia
	Seriola dumerilii
Sparidae	*Boops boops*
Scombridae	*Scomber japonicus*
	Scomber scombrus
	Thunnus thynnus
Sphyraenidae	*Sphyraena sphyraena*
Mugilidae	*Chelon labrosus*
	Mugil cephalus
	Liza aurata
	Liza ramada
	Liza saliens
Atherinidae	*Atherina boyeri*
	Atherina hepsetus

Tab. 2. Demersal fish fauna of Markiz Island

FAMILIA	SPECIES	FAMILIA	SPECIES
Congridae	*Conger conger*	**Labridae**	*Labrus bergylta*
Syngnathidae	*Syngnathus acus*		*Labrus merula*
	Nerophis ophidion		*Symphodus cinereus*
Serranidae	*Serranus cabrilla*		*Symphodus ocellatus*
	Serranus hepatus		*Symphodus roissali*
	Serranus scriba		*Symphodus rostratus*
Moronidae	*Dicentrarchus labrax*		*Symphodus tinca*
Sciaenidae	*Sciaena umbra*		*Symphodus mediterraneus*
Mullidae	*Mullus barbatus*		*Coris julis*
	Mullus surmuletus		*Thalassoma pavo*
Sparidae	*Dentex dentex*	**Gobiidae**	*Gobius bucchichi*
	Diplodus annularis		*Gobius cobitis*
	Diplodus puntazzo		*Gobius niger*
	Diplodus sargus		*Gobius cruentatus*
	Diplodus vulgaris	**Blenniidae**	*Lipophrys pavo*
	Lithognathus mormyrus		*Parablennius gattorugine*
	Oblada melanura		*Parablennius tentacularis*
	Pagellus acarne		*Blennius sanguinolentus*
	Pagellus erythrinus	**Trachinidae**	*Trachinus araneus*
	Pagellus centrodontus	**Uranoscopidae**	*Uranoscopus scaber*
	Sarpa salpa	**Scorpaenidae**	*Scorpaena scrofa*
	Sparus aurata		*Scorpaena porcus*
	Spondyliosoma cantharus	**Triglidae**	*Trigla lucerna*
Centracanthidae	*Spicara maena*	**Soleidae**	*Solea solea*
	Spicara smaris		*Solea ocellata*

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