

International Conference on

AQUACULTURE & MARINE BIOLOGY

June 25-27, 2018 | Rome, Italy

Management of economic fish species migrating in international waters

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Anchovy (*Engraulis encrasicolus*) is a very commercial fish species along the coasts of Black Sea. Its fishing is conducted with different fishing gears including purse seine and pelagic trawl. They feed on zooplankton, mainly copepods crustaceans, fish eggs and larvae. It is Atlantic-Mediterranean including Black Sea from Norway to Angola. It seems in all Turkish seas with the most abundant in the Black Sea and the Sea of Azov. Total catch amount of Anchovy in the Black Sea in 2016 was about 102595 tons. However, total catch amount has been reported 385 000 tons in 2007. In other words, total production declined dramatically in the last decade. The Black Sea currents create a migration of pelagic fishes for biological nutrition, spawning and wintering cover. Hence, in particular, such as anchovies, an important fishing of pelagic fish is discussed in this article on the issues that need to be done. In this sense, common policies are required in Black Sea. In Black Sea region there have been many surveys. In the context of international projects, long-term monitoring conducted a lot of research is currently being conducted by researchers from different countries in this research. There is not enough prohibition of size of hunting for anchovy in Georgia, where huge amounts of small-sized hunting of anchovies. Georgia which was founded hunting anchovy for fish meal and processed food factories. The purpose of this article, the Black Sea, which is the most important fish species in this imported and also exported to the EU countries, the measures necessary for the operation of profitable stocks in the Black Sea coastal countries and international level, as well as to facilitate open discussion and knowledge of

the subject concerned, the necessary measures to be retrieved. This study, the amount of aquaculture in Turkey in recent years, how hunting equipment and technologies are affected by many parameters that affect the current situation has been analyzed. Anchovies in Turkey, in recent years, on the research carried out in previous years were compared with the results of the new research. In recent years, especially the last two hunting season is one of the important fishing centers on the Black Sea province of Sinop anchovy fishing approximately 15 days and then quickly drain is very thought-provoking and need to focus on the shores of Georgian issue. This topic has been on anchovy in the old and new in comparison with the results of the research were injured, anchovy fishery management carefully maintained. Especially in Turkey, the Coast Guard is renewed every year and with increasing knowledge of the hardware and the control of fishery products as fishing is a very important. During these audits, the fishermen are also subject to various training programs in certain periods. However, the inexistence of larger fish in our samples may suggest that there is still some heavy fishing pressure on *E. encrasicolus* stocks in the Black Sea. Last fishing years (2017), the estimate of fishing mortality ($F = 0.95$) is some higher than natural mortality ($M = 0.70$), and according to exploitation rate ($E = 0.58$), *E. encrasicolus* fishery currently sustains with heavy fishing pressure. As Turkey, other Black Sea countries shall adopt international regulations in order to protect and control anchovy stocks and all countries of Black Sea Region must apply same regulations together.

Biography

Osman Samsun is professor at Faculty of Fisheries and Aquatic Science, Sinop University. He is working as head of Department of Fishing Gear and Process Technology. He obtained his Ph. D. degree in 1990 from Graduate School of Natural Sciences, Ondokuz May University. His research interest includes conservation biology, fisheries science, and population dynamics and fisheries sustainability.

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