First examination and identification of the optimum operation period of fyke-nets with two funnels and a 42 mm mesh size in order to catch Sepia (Sepia officinalis) in Izmir Bay

Tuncay KINACIGIL, Ali KARA, Adnan TOKAÇ, Ejbel ÇIRA and Nazan HEPGUVENDIK

Egean University, Fisheries College, Bornova-IZMIR (Turkey)

In Izmir Bay, Sepia (*Sepia oficinalis*) is caught using trammelnets, fyke-nets with 12 mm mesh size, and lines. This study represents the first time that fyke-nets with a 42 mm mesh size are examined. The sheme of these fyke-nets used may be observed in Fig. 1. 72 units of the before mencioned fyke-nets were used in this study, which were set at sunset and hauled by morning, approximately 12 hours afterwards.

According to the result of this study, the before mencioned fyke-nets were successful catching Sepia. In 27 days, 352 Kg of Sepia were caught. At the same time these fyke-nets are more selective than those with a 12 mm mesh size, because the crabs are not taken by them.

The amount of 114 units of fyke-nets were devided into three groups for this study:

38 units were set at sunset and hauled in the morning, 12 hours later. The amount of Sepia caught in 25 days was 352 kg.

38 units more were set at sunset and hauled after 36 hours, at the same station, resulting the amount caught in 25 days 449 Kg.

In the third group, 48 units of fyke-nets were hauled 48 hours after setting, in which 453 Kg were caught. Besides of not obtaining any increase in the productivity, this group also meant death for the Sepia.

As a results, the optimum operation period using fyke-nets was indentificated as the 36-hour one, increasing the productivity in a 24% compared to the first group.



Fig. 1. Scheme of fyke nets for catching sepia

REFERENCES

KINACIGIL T., KARA A., ÇIRA E., 1991.- Comparision of Catching Production of fyke nets of three and two funnels with 42 mm mesh size used in the catching of Sepia (Sepia officinalis) in Izmir Bay. The Rotary Club of Beyoglu Symposium of Fish Catching and Processing, Istanbul, Turkey.KINACIGIL T., KARA A., ALPBAZ A. & CIRA E., 1990.- The Comparison of catching production of fyke nets which is 42 mm and 12 mm mesh size sith three funnels in the catching of Sepia (Sepia officinalis L.). Aegean Univ. Fisheries College. The Symposium of Fishery in 10th Training Year., Izmir, Turkey.BRANDTS A.V., 1972.- Fish Catching Methods of the World. Fishing News Ltd. 110 Fleet Street, London Es 4, England.