Ichthyoplankton of the Egyptian Mediterranean waters IV-Distribution and occurrence of Mullet Larvae

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The seasonal and spatial distribution and abundance of mullet larvae and fry along the Egyptian Mediterranean coast were studied during the period from January 1982 to October 1984. The stations sampled and the study area are described by El-Rashidy and Dowidar (1990) in this volume.

A total of 859 mullet larvae occurred in the ichthyoplankton samples collected throughout the period of study. The larvae of Mugil cephalus and Liza saliens were observed in plankton samples throughout the period from July to November. As judged from the length frequency of the recorded larvae, it may be concluded that spawning of both species may begin during June and ends in late October — early November. The surface water temperature during this period varied between 21.5e and 28.4e C. These results are in accordance with the spawning seasons determined for both species by various authors from the study of gonad maturation (Rafail, 1968; Abdel Hamid, 1969; Youssel, 1973). Figure (1-A) describes the abundance and spatial distribution of the larvae of M. cephalus and L. saliens which revealed that they mostly spawn in coastal waters particularly in the eastern area (Burullus - Arish), at depths ranging from 20 to 50 m, and a distance of 3.5 - 10 km from the coast.

The larvae may indicate that the breeding of L. ramada begins in November and probably ends in March with the peak in late November to early December. The surface water temperature varied between 17.7 and 21.5e C. This agrees with the spawning time given by other authors working on the gonad maturation of the fish (El-Sedfy, 1971; Youssef, 1973; El Maghraby et al., 1974). Shows that the small larvae up till 7 mm were dominant in the fish (El-Sedfy, 1971; Youssef, 1973; El Maghraby et al., 1974). Shows that the small larvae up till 7 mm were dominant in the fish (El-Sedfy, 1971; Youssef, 1973; El Maghraby et al., 1974). Shows that the small larvae up till 7 mm were dominant in the relatively lower salinities. Our study reveals that M. rephalus larvae were less abundant

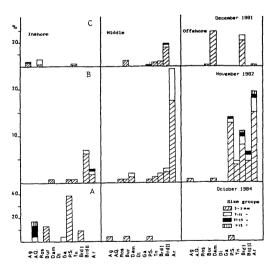


Figure 1 : Distribution and abundance of the different size groups of total mullet larvae.

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