

عنوان مقاله:

Research Article: An investigation on the effects of fish farming in marine cages on abundance and structure of Mnemiopsis leidyi and Beroe ovata (Ctenophora: Lobata) in the southwestern Caspian Sea during YolA-YoYo

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خلاصه مقاله:

The purpose of this study was to investigate changes in abundance of combs and non-biological parameters around fish cage in southwestern Caspian Sea. This study was conducted with $\operatorname{\mathcal{P}}$ stations near the cage fish farming site and ٣ reference stations far from the cage during ۲۰۱۸-۲۰۲۰. Total number of Mnemiopsis leidyi in the stations near to fish farming site (۱۳۲۰ ind.m-۳) increased by FY% compared to far stations from the fish farming site (۹۵۰ ind.m-۳) in ۲۰۱۸-۲۰۲۰. M. leidyi had the highest monthly abundance at the station near the cage fish farming site with ۳۰۱۱ ind.m-۳ in February Y-19. The lowest abundance of M. leidyi was observed at the far station from cage fish farming site almost F.o ind.m-Ψ in February YoYo. The length group of less than a mm dominated M. leidyi populations by more than 95% and was the predominant M. leidyi population at the cage fish farming site. The findings showed, the abundance of B. ovata fluctuated between YY and FY ind.m-\text{"} at near the stations cage, notably B. ovate was not observed at stations far from the cage fish farming site. CCA analysis confirmed that there was a strong relationship between M. leidyi abundance and nutrients levels (r=o.99). Increasing the amount of nutrients generated from feed and excretion of fish farming in cages is one of the main reasons for increase in the abundance of M. leidyi and B. ovata at stations near the fish farming site. Therefore due to the closed environment of Caspian Sea, without investigating cage culture .effects on native fauna and flora, development of fish farming sites in sea cages is not sustainable

كلمات كليدي:

Fish, Cage culture, M. leidyi, B. ovata, abundance, Nutrients, Caspian Sea

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