

Study on environmental characteristics trend in order to development of aquaculture in the different Regions of southern Caspian Sea

**Hassan Nasrollahzadeh Saravi^{1*}, Fariba Vahedi², Abdollah Nasrollahtabar³, Asieh Makhloogh⁴,
Gholamreza Salarvand⁵, Mohammad Kardar rostami⁶**

1, 2, 3, 4, 5, 6- Caspian Sea Ecology Research Center (CSERC), Iranian Fisheries Science Research Institute (IFSRI), Agricultural Research, Education and Extension Organization (AREEO), P.O. Box: 961, Sari

*Corresponding Author e-mail: hnsaravi@gmail.com

Abstract

Iran is one of the semi-arid countries of the world; therefore, it is essential to use marine water resources for sustainable aquaculture development. The aim of this project is to study water quality and the trophic status at the different depths and layers in the southern Caspian Sea based on environmental parameters in order the feasibility of fish cage. The results showed that the range of nutrient in water were observed in the limits of marine aquaculture threshold at this area and trophic status were oligotrophic to meso- eutrophic. Also, the water temperature should be considered based on kind of species. As a conclusion, the study of environmental parameters in the southern Caspian Sea is highly dependent on season, depth, and also different areas. So, intrepertation of these data were need to pay more attention with different views on fish cage culture.

Keyword: Environmental parameters, Marine Fish cage culture, Caspian Sea, Iran