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Evaluation of Pacific white shrimp *Litopenaeus vannamei* (Boone, 1931) culturing management in Teyab farms, Hormozgan, Iran

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Due to outbreak of white spot disease (WSD), in 2004, that caused mass mortality of the indigenous species *Penaeus indicus* in southern shrimp farms of Iran, *Litopenaeus vannamei* has introduced to Iranian shrimp culture industry, and now is farmed in southern and northern coastal parts of Iran on a commercial scale. Considering shrimp farming is as a new and improving aquaculture practice in Iran, it faces some challenging problems in terms of culturing management that need to be monitored. The present study purposed to assess the performance of shrimp farming management in 3 randomly selected farms in Teyab, Hormozgan, Iran. The results showed that, although the greatest diversity in the Teyab farms were related to diatoms, but cyanophytes showed higher density than the diatoms. The results indicated that during the culturing period, mean values for temperature, salinity, pH and dissolved oxygen (DO) were not significantly different in farms, whereas the levels for Chlorophyll-a (Chl-a) and total organic matter (TOM) showed the highest content onwards to the end of culturing period. The average total length or final weight showed no significant differences in 3 farms at the end of culturing period. Positive correlation was found between pH and water temperature, pH and DO, pH and ammonia; Chl-a and DO; growth parameters and DO, growth parameters and Chl-a. However a negative correlation was observed between TOM and pH, TOM and water temperature, TOM and ammonia, TOM and pH; Chl-a and water temperature, Chl-a and salinity, Chl-a and transparency; growth parameters and salinity, growth parameters and pH, growth parameters and ammonia. However, water quality parameters should be monitored to serve as guide for managing a pond so that conditions that can adversely affect the growth of shrimp can be avoided.

Biography

Kiuomars Rohani-Ghadikolaei has completed his PhD from University Science Malaysia (USM), Malaysia. He is the Head of Aquaculture Department of Persian Gulf and Oman Sea Ecological Research Institute affiliated to Iranian Fisheries Research Sciences Organization. He has published more than 4 papers in reputed journals and presented more than 6 papers in international conferences; as well as has been serving as an Editorial Board Member of Iranian fisheries research journals.

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