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Investigation of physical parameters of causing and expanding harmful algae bloom and comparing worldwide records with Persian Gulf

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The impact and problems caused by Harmful Algae Blooms (HABs) in different aspects of human life is obvious. There are various reasons which can be the cause of this phenomenon. Some of them have been recognized and some are being deliberating yet, so because of that, introducing a great manner for controlling and predicting of harmful algae blooms seems to be complicated. One of the best effective way for investigating and controlling of harmful algae blooms is gathering this phenomena's data and comparing them world widely. In this article, HAB's data in different regions have been gathered and compared with the red tide that we had in Iran at 2008. The results show that one of the most important food resources for this algae bloom is coastal water pollution and it's transportation by water circulation. Persian Gulf waters are susceptible of harmful algae blooms. Various parameters of causing and expanding of this phenomenon exist in this area. Such as: Residual waters, aerosols, blast waters, proper temperature and salinity for these organism's growing, water circulations and appropriate winds for it's expanding. In this article, after introducing the harmful algae bloom phenomena, the effect of each parameter in causing harmful algae blooms in Persian Gulf in 2008 has been observed. The 2008 harmful algae bloom lasted for months and it has been the largest and longest red tide during pas years in this region.

Biography

Hadis Hoseinzadeh Naseri is a Master student of physical oceanography in Iran. She has finished her Bachelor in cellular and molecular biology at the age of 22. She has published 2 articles in Iranian oceanographic journals. She has sent an abstract for Oceans'14 MTS/IEEE (Taipei) and it has been accepted.

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