عنوان مقاله:

The study of layer structure and vertical variation of water physical parameters in Strait of Hormoz

محل انتشار:

چهارمین کنگره بین المللی عمران ، معماری و توسعه شهری (سال: 1395)

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نویسندگان:

Abdoreza Sabet Ahd - *Collage of Basic Science, jahrom Branch, Islamic Azad University, jahrom, Iran*

Hesam Mehrfar - *Young Researchers and Elite Club, , Boroujerd Branch, Islamic Azad University, Boroujerd, Iran*

خلاصه مقاله:

Always oceanographers pay attention to layer structure in the sea environment. Creation of layerstructures is because of some phenomenons like double diffusion, internal waves, turbulence modularmixing. In this paper with examination of vertical structure of temperature, salinity and densitybetween Persian Gulf and Oman Sea in different seasons, layer structures appear clearly. Alsocountors of the same physical parameters show the existence of regular structure which prove internalwaves resulting from the Persian Gulf and flow into the Oman Sea.The exchange flow through the Stait of Hormus results from horizontal density gradient between thePersian Gulf and Oman Sea. In winter the density ratio (R) in this nearshore region is a bout 0.7 andin offshore region is 0.2. this shows that in this area, double diffusion forms layer structures whichhave horizontal variations as well as in the vertical. Coastal topography also seems to affect the doublediffusion processes and leads to variations of layering in horizontal directions especially between nearand offshore regions .

کلمات کلیدی:

layer structure, double diffusion convection, Termocline, Termohaline, Persian Gulf