

عنوان مقاله:

ANALYSING THE WAVE SPECTRUM FOR THE PERSIAN GULF IN BUSHEHR PROVINCE

محل انتشار:

چهاردهمین کنفرانس ژئوفیزیک (سال: 1389)

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نویسندگان:

Zeinab Sadat Ghaderi - *Department of Marine Science and Technology, Science and Research Branch, Islamic Azad University Tehran, Iran*

Said Mazaheri - *Assistant professor, Maritime Technology Group, TRI, Tehran, Iran*

خلاصه مقاله:

The Persian Gulf wave spectrum might not necessarily be defined by known spectrums such as Bretschneider, Pierson-Moskowitz, JONSWAP and others. In this paper it is attempted to compare the measured wave spectrums with some of the well-known spectrums i.e. Bretschneider, Pierson-Moskowitz, JONSWAP (Hasselmann), JONSWAP (edited by Ochi), Scott and TMA. Furthermore, it is tried to express a formula which can describe the wave spectrum in Persian Gulf. As part of monitoring research project in Persian Gulf accomplished by the Iranian Ports and Maritime Organization, some shallow and deep water wave stations were installed close to the Iranian coastlines. One year continues wave parameters were measured and collected from those stations. The collected data was processed and analyzed. Then, for each hour of the measured data the wave spectrum was obtained. Each wave spectrums which got the significant wave height more than 1.0 m was selected. The selected wave spectrums were compared with six known spectrums named above. This procedure was done for both shallow and deep water wave stations. Comparisons showed that the measured wave spectrums were not exactly in line with the above mentioned spectrums. In addition, there are rare signs of swell waves in the trends. Meanwhile, effects of local wind waves always can be seen in higher band frequency of the wave spectrum. Based on the results it is attempted to find the .best fitted standard spectrum by some modifications to determine the wave spectrum in the Persian Gulf

کلمات کلیدی:

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