

عنوان مقاله:

Seasonal Variability of Sea Surface Temperature on the Persian Gulf and Oman sea Using MODIS Data

محل انتشار:

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نویسندگان:

Mehdi Rahnama - *Atmospheric Science and Meteorological Research Center (ASMERC), Tehran, Iran*

Sara Attarchi - *Department of Remote Sensing and GIS, Faculty of Geography, University of Tehran, Tehran, Iran*

خلاصه مقاله:

An accurate estimate of sea surface temperature (SST) and its changes is important in climate change studies, severe storms prediction, ocean currents tracking, and an estimate of water chlorophyll content. However, it is almost impossible to calculate sea surface temperature (SST) with groundbased data from automatic weather stations located on the seashores or limited numbers of weather stations over the oceans and seas. Advances in remote sensing technology in the last decade made it possible to measure surface temperature (SST) based on satellite imagery (thermal bands of satellites). In this study, MODIS data have been used to investigate seasonal variation of sea surface temperature in the Persian Gulf and Oman Sea. The high correlation between sea surface temperature (SST) extracted from MODIS and observed temperature of weather stations are found. The accuracy of estimated temperature was higher for the warm season (spring and summer) compared to the cold season (autumn and winter).

کلمات کلیدی:

Sea Surface Temperature (SST); MODIS; Persian Gulf; Oman Sea; Remote Sensing

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