

Abstract

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Tidal and non-tidal sea level off Port Said, Nile Delta, Egypt

In the current study, the observed sea level off Port Said is analyzed over one year (February/1999 to January 2000). The analyses use least square harmonic analyses to separate tidal part from the observed sea level. The direct correlation between sea level off Port Said and the sea surface temperature, mean sea level pressure together with 10m-wind speed components are used to understand the dynamic of sea level variability. The present study indicates that, the observed sea level off Port Said is significantly affected by the tidal part than the non-tidal part particularly during May and September months. Observed sea level off Port Said is significantly affected by mean sea level pressure and sea surface temperature. However, zonal and meridional wind speed has only a small effect on the sea level variations.