



Spatio-temporal upwelling trends along the Western Iberian Peninsula from 1967 to 2006

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The trend of monthly UI along the western coast of the Iberian Peninsula was calculated from 1967 to 2006. The results showed statistical significance for most of the months, except for January and May which confidence level was lower than 90%. In general, monthly upwelling trends indicated a weakening in upwelling intensity during most of the year, with the exception of February, June and July. The highest positive value was observed in February ($9.8 \text{ m}^3 \text{ s}^{-1} \text{ km}^{-1}$), followed by that observed in July ($4.7 \text{ m}^3 \text{ s}^{-1} \text{ km}^{-1}$). On the other hand, the highest negative value corresponded to December ($-12.6 \text{ m}^3 \text{ s}^{-1} \text{ km}^{-1}$), followed by the values observed in October and March ($-11.1 \text{ m}^3 \text{ s}^{-1} \text{ km}^{-1}$). From this analysis it was not observed a clear seasonal trend in UI. During spring-summer months this trend fluctuated with the month, indicating an upwelling strengthening in June and July and a weakening trend for the rest of the months. For autumn-winter months, an upwelling weakening was observed, with the exception of February.