



Eddies separate waters rich in oxygen from the poor

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MADRID/DRAFTING/BLACK GOLD.- An international team of researchers, with Spanish participation, It has been found that eddies are in the oceans keep separate waters rich and poor in oxygen - in which there is no almost life-.

This is the main conclusion of a study published by Nature Geoscience, in which the scientists have established a relationship between eddies and hypoxia in the sea areas, i.e., those in which water has very low oxygen content.

The study concludes that eddies occurring in these regions such as walls or barriers and prevent the entry of oxygen.

Between a 7 and 8 per cent of the volume of the oceans are areas of hypoxia and therefore in them almost no life.

The study has been carried out in an area of natural minimum oxygen which is located between the 300 and the 600 meters of depth off the coast of Peru and whose origin is the result of the interaction of the ocean tides and the accumulation of bacteria, they used the existing little oxygen to feed.

Based on numerical mathematical models and analyzing data with techniques of Physics of chaos, the work emphasizes that eddies maintain separate rich and oxygen-poor waters, According to the CSIC.

Not only oceans are natural areas of hypoxia but also episodes of hypoxia caused by human activities.

There are nitrogen compounds that are used as fertilizers and reach the sea causing a tremendous growth of bacteria in areas close to the mouth of the rivers. These bacteria grow very quickly and consume all the oxygen in your area, especially if they are waters quiescent.

Some studies suggest that hypoxia zones are increasing their volume, mainly due to the increase in global temperature. That can have negative consequences for the biodiversity of the seas, Since most of the marine species may not survive in these regions.

The techniques developed could help keep track of the areas of hypoxia and foresee the consequences. With [http information://www.sinembargo.mx/](http://www.sinembargo.mx/)

- See more at: <http://oronegro.mx/2015/11/04/remolinos-separan-aguas-ricas-en-oxigeno-de-las-pobres/?lang=en#sthash.QgXUNGyh.dpuf>