



## **The Colombian marine processes in the frame of global climate change**

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Using data and information from Colombia maritime areas (located part on Caribbean Sea and part on Eastern Pacific Ocean), the relationship between regional marine process and the global climate change are presented. A two way connection is showed: the regional marine environment is affected by climate change and the Colombian maritime areas play an important role into the global climate system. Within the first way, trends in regional sea surface temperature and mean sea level were identified. In the analysis of the second, the features of air-sea exchange in Colombian maritime areas was analyzed.

The knowledge about first, the change in regional marine environment allows to carry out impact assessment for insular and coastal regions in order to propose adaptation measures. In the other hand, the results of the analysis related to carbon cycle in Colombian maritime areas help to increase the knowledge about the role of regions in global processes.