



First results of an ocean-atmosphere mooring in the Senegalese upwelling

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Abstract

In the framework of the PREFACE European project, the Joint International Laboratory ECLAIRS set up an oceanographic and meteorological buoy, dedicated to monitoring and analysis of the short and long-term changes in climate, atmosphere and marine environment within the Senegal upwelling. The buoy "MELAX" was deployed early 2015 in the heart of the Senegalese upwelling by 30m-depth at (14°20'N, 17°14'W). Data collected are, for the atmosphere, surface wind, solar radiation, humidity and rain, and for the ocean, temperatures, salinity, and currents (from the surface to the bottom) and oxygen. We present the first months of measurements by MELAX, in particular the relationship between wind, sea surface temperatures, hydrology and current. Satellite and model data are used to provide a larger-scale context to the punctual observations.



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