

{rokbox title=|Images showing the diversity of Vulnerable Marine Ecosystems, including cold-water coral reefs, coral gardens and sponge grounds, at different locations across the North Atlantic Ocean :: Image: Authors|thumb=|images/stories/ieo/imagenespublicaciones/centro-oceanografico-baleares-ieo-present-state-marine-ecosystems-spanish-mediterranean-climate-change-context-report-gmcc-2019-thumb.jpg|images/stories/ieo/imagenespublicaciones/centro-oceanografico-baleares-ieo-present-state-marine-ecosystems-spanish-mediterranean-climate-change-context-report-gmcc-2019.jpg{/rokbox}

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[The present state of marine ecosystems in the Spanish Mediterranean in a climate change context.](#)

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Abstract: Multidisciplinary time series generated by the monitoring programs supported by the Spanish Institute for Oceanography (IEO, Instituto Español de Oceanografía) in the Spanish Mediterranean Waters are analyzed. These time series extend from 1992 in some cases, whereas in others they started in 2007 when the different monitoring programs funded by IEO were merged in the current project RADMED. These time series are used to describe the average values and ranges of variability of different variables that could be useful for describing the environmental state of the Spanish Mediterranean waters. Such analyses and statistics are provided as tables that could be used as a reference for future research work or for management purposes. Data from the IEO monitoring programs are complemented with meteorological information from the Spanish Meteorological Agency (AEMET, Agencia Estatal de Meteorología), satellite data from the NOAA (National Oceanic and Atmospheric Agency) and l'Estartit oceanographic and meteorological station, operated by Institut de Ciències del Mar (ICM/CSIC). Besides the description of the current environmental state of the Spanish Mediterranean marine ecosystems, an analysis of long term trends is carried out, assessing the possible changes associated to Climate Change.

Keywords: