

Responses of marine organisms and ecosystems to hydro-meteorological forcing

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Interpretation of the temporal variability of biological processes and identification of the main variables that drive the dynamic regime of marine ecosystems is complex. Indeed, many external forcing ranging from the micro- to the mega-scale can influence the long-term variability of the marine biological environment. In this context, understanding and predicting responses of marine ecosystems to current climatic warming represent a key challenge.

This talk reviews the diversity of hydro-meteorological influences on biological processes, marine organisms and ecosystems and their variety of responses to physical forcing. Possible consequences of hydro-meteorological variability on the biogeochemical processes are also highlighted.