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2010 Ocean Sciences Meeting

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Coastal Margin Science in the Era of Collaboratories

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Events and gradient regions (E-GRs) occur at multiple temporal and spatial scales within aquatic ecosystems in coastal margins. E-GRs play major roles in ecological function and productivity, and respond directly to river, ocean, and atmospheric processes—which in turn respond to climate change and to land/water management practices. Understanding E-GRs at “river-to-continental shelf” and “gene-to-climate” scales requires new and multifaceted approaches to observation and prediction, which integrate information, scientific inquiry, and broad societal participation (“collaboratories”). What type of scientific insight and foresight will collaboratories deliver? With what benefits for environmental sustainability, economic development and public health? A perspective ...

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