

Special Session
on
Land-Ocean Interaction Processes and the Integrated Coastal Zone
Environmental Management
at
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Session Organizers:

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Scope and Objectives:

The coastal zone is an area of transition between the terrestrial and marine components on the Earth's surface. It is widely recognized as being an important element of the biosphere, as a place of diverse natural systems and resources, and a zone having particularly important economic and ecological value, by supporting the life, welfare and health of a growing global population. The coastal zone is characterized by the intense interaction of the natural dynamic and biogeochemical processes, and the anthropogenic processes as well. Moreover, it is vulnerable to pressures resulting from human activities; while the sustainability of human economic and social development is threatened by natural and human-induced environmental hazards, such as pollution, hypoxia, red tide, ecological degradation, and oil spills. Wise and efficient coastal zone environmental management aims to provide knowledge-based solution of protection of the natural ecosystem and promote the sustainable development of economy and society based on the understanding of the land-ocean interaction processes and mechanisms.

The objective of this session is to connect research advances regarding the land-ocean interaction processes and the integrated coastal zone environment management, with the background of institutional reform of the state council, to break through departmental barriers and integrate the environment management functions of land and ocean. Topics within this session include the effects of human activities in watershed on the coastal zone environment, coupled with watershed-nearshore modeling and the decision making support system for land-ocean integrated management, integrated land-ocean environment management regulations and associated policies.