
Remote Sensing of Inland, Coastal, and Oceanic Waters (AE103)

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The marine environment is of great societal, economic, and cultural importance to Asia-Pacific countries, especially small island nations. Populations and infrastructures are concentrated in the coastal zone. Economies depend, sometimes critically, on wild fisheries and other, non-living, marine resources. Living conditions and quality of life are impacted by climate variability and natural hazards such as hurricanes and tsunamis. Island states in particular are vulnerable to global climate change and sea-level rise, which may threaten their very existence or make unsustainable their development. Waste disposal, recreation, shipping, fishing practices, and land use are imposing stresses on ecosystems, with destructive feedbacks and irreversible consequences.

Quantitative knowledge and understanding of coastal and oceanic processes, water composition and properties, physical dynamics, and land-ocean-atmosphere biogeochemistry, are necessary to mitigate the impacts of anthropogenic activity and climate change on ecosystems and geographic bio-diversity. Research on these topics has benefited from developments in remote sensing technology, air borne and space borne, active and passive. Remote sensors provide repetitive and synoptic views of phenomena and properties unachievable by other means, and are well suited to cover the broad range of space and time scales associated with local, regional, and basin-scale applications. Current and planned systems and innovative concepts, advances in inversion of the electromagnetic signal, and the maturity of algorithms to reduce and analyze remote sensing data, offer the opportunity to provide useful and consistent information for monitoring ecosystems, forecasting ocean conditions, and planning effective approaches to resource management.

This conference will address remote sensing of inland, coastal, and oceanic waters, including technologies, methods, and applications, with a focus on the coastal environment, reef ecosystems, and lagoons. Emphasis will be placed on optically complex waters, signatures of climate change, disaster prediction, tracking, and management, and scientific analysis of properties and impacts for sustainable use of marine resources and conservation of biological diversity. Papers are solicited on the following and related topics:

- Ocean circulation, boundary currents, and upwelling
- Fluvial transport of carbon, sediments, and nutrients
- Physical-biological interactions
- Atmospheric transport of nutrients and pollutants
- Air-sea fluxes of particles and chemicals
- Atmospheric correction of ocean-color imagery
- Inversion schemes for water-column constituents
- Bottom depth, benthic reflectance and habitat
- Water-column and benthic primary production
- Algal classes and ecosystem structure
- Coral reefs, sea grasses, and mangroves
- Wild fisheries and aquaculture
- Harmful algal blooms and natural hazards
- Oil and chemical spills, thermal pollution
- Ship tracking and maritime operations
- Freshwater quality monitoring
- Erosion, catchments, and episodic events
- Airborne and in-situ underwater imaging
- New instrument and measurement concepts
- Real-time observing and predicting systems
- Conservation and resource management.

Abstract Due Date: 2 June 2008
Manuscript Due Date: 20 October 2008

Submission of Abstracts for Asia-Pacific Remote Sensing

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