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GIS and RS in Ocean, Island and Coastal Zone

Guest Editors:

Prof. Dr. Fenzhen Su

Institute of Geographic Sciences
and Natural Resources Research,
Chinese Academy of Sciences,
Beijing 100101, China

Prof. Dr. Cunjin Xue

The Aerospace Information
Research Institute, Chinese
Academy of Sciences, Beijing,
China

Dr. Han Xiao

Institute of Geographic Sciences
and Natural Resources, Chinese
Academy of Sciences, Beijing,
China

Message from the Guest Editors

Dear Colleagues,

Islands and coastal zones are ocean and land interaction zones, and have great economic, scientific and national-defense value. Due to the impacts of human activities (terrestrial pollutant discharge and urbanization) and the natural environment (global sea level rises and extreme weather), islands and coastal zones have become high-risk areas in the world. These areas 1) face rapid morphological changes, which need high-flexibility, time-efficient and high-resolution monitoring methods; 2) have both huge development space and high fragility, which calls for exploring a scientific carrying-capacity framework for resource utilization and spatial management; and 3) have multisource data support provided by spatiotemporal big data, but lack an analysis framework and platforms for their sustainable development.

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Dr., Flagstaff, AZ 86001, USA

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Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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