

# Coastal Blue Carbon

Measurements, Modeling  
and Assessment

## Session 1: Coastal Blue Carbon: Measurements, Modeling, and Assessment

### About this session

Coastal blue carbon refers to the carbon fixed from atmospheric CO<sub>2</sub> by plants such as salt marshes, mangroves, and seagrass, phytoplankton, macroalgae, and other organisms and stored in their biomass and bottom sediment in the coastal wetlands. Complex interactions of sea level/climate change, land use management, nitrogen pollution determine the strength of this carbon sink for a given area. Ecosystem services and the associated values of conservation and restoration of the coastal wetlands for the purpose of mitigating climate change have only recently been recognized. However, our ability to measure and model vertical and lateral exchanges of carbon in coastal wetlands across land, atmosphere and ocean is rather limited. This session aims to bring wetland ecologists, ecological engineers, biogeochemists, earth system modelers, and social scientists together to discuss field measurements, modeling, assessment, restoration/creation, and to promote coastal blue carbon trading for climate change mitigation.

### Expected output

Accepted authors will be invited to submit a full paper for a special issue in Deep-Sea Research Part II: Topical Studies in Oceanography following the instructions that will be communicated later on. *Other journals for the symposium volume may be also considered if needed.*



### Moderator



Jianwu Tang

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University

*Please note, there is no charge for this online event.*

**Submission Deadline** 15 September 2021

Register and/or submit an abstract here

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