



Carbon, Nutrient and Greenhouse Gas Dynamics in Estuaries and Wetlands

Guest Editor:

Dr. Mahmood Sadat-Noori

School of Civil and
Environmental Engineering,
University of New South Wales
(UNSW), Sydney, NSW 2052,
Australia

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Message from the Guest Editor

Climate-change-induced global warming will have significant negative effects on the environment. Estuaries and wetlands play an important role in the global warming process by acting as sinks or sources of atmospheric carbon, however, our understanding of these processes is incomplete. As such, qualitative and quantitative assessments of C, N and major greenhouse gas (GHG; CO₂, CH₄, and N₂O) dynamics in estuaries and wetlands are essential for closing knowledge gaps in global C budgets.

This Special Issue aims to take a step towards resolving the above-mentioned issues and will focus on C and N dynamics and GHG fluxes from estuaries and wetlands of any type, including inland, marine/coastal, and manmade. I encourage and invite original research and review paper submissions on the following topics:

- fluxes of GHGs across the water–air interface of estuaries and wetlands;
- environmental controls and drivers of GHG fluxes in estuaries and wetlands;
- the role of groundwater discharge as a pathway for C and N transport;
- blue carbon stocks and GHG fluxes in coastal ecosystems.





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Editor-in-Chief

Dr. Daniele Contini

Institute of Atmospheric Sciences
and Climate (ISAC), National
Research Council (CNR), Str. Prv.
Lecce-Monteroni km 1.2, 73100
Lecce, Italy

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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