Special Issue

Eddy Covariance Methodology for Carbon, Water and Energy Exchanges

Message from the Guest Editor

Twenty-five years ago, a few pioneering groups started measuring fluxes of carbon dioxide, water, and sensible heat between forests and atmosphere with a promising methodology: eddy covariance. This Special Issue aims to collect updated views on eddy covariance applications including, but not limited to:

- Exchanges from “hot spots” or underrepresented surfaces (e.g., Mediterranean, Tropics, urban or water surfaces);
- Long-term ecosystem productivity and hydrology;
- Integration with land-surface modelling or numerical weather prediction schemes.

Guest Editor

Dr. Nicola Arriga

Joint Research Centre, European Commission, Ispra, Italy

Deadline for manuscript submissions

closed (5 May 2023)

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Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

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About the Journal

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!

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

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