

Special Issue

The Interrelationships between Near-Surface Ecological Processes and Air–Sea Exchange of Gases and Particles

Message from the Guest Editors

The aim of this Special Issue is to present recent progress in the study of atmosphere–ocean interactions, focusing on the way upper ocean ecology affects and is affected by gas and particle fluxes across the air–seawater interface. Experimental studies (microcosm/mesocosm manipulations), in situ observations, and modeling efforts dealing with these aspects are welcome. Topics of interest include but are not limited to:

- Spatial and temporal variability of polluted aerosols and desert dust in the atmosphere;
- Spatial and temporal variability of airborne prokaryotic and eukaryotic organisms;
- Novel techniques and methods for studying ocean–atmosphere interaction;
- Response of marine organisms to aerosol or dust deposition;
- Gas and heat exchange between the ocean and the atmosphere;
- Sea surface microlayer composition and control of air–sea exchange;
- Effects of sea-spray on cloud nucleation processes;
- Consequences and influence of climate change on the synergistic exchanges between atmospheric dust and land–ocean ecosystems.

Guest Editors

Dr. Yoav Lehahn

Dr. Eyal Rahav

Dr. Thomas Bell

Dr. Christa A. Marandino

Deadline for manuscript submissions

closed (14 December 2020)



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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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