

# Special Issue

## Geophysical Fluid Dynamics and *Symmetry*

### Message from the Guest Editors

This Special Issue, “Geophysical Fluid Dynamics and Symmetry”, is dedicated to the publication of novel results on the symmetry in three/two-dimensional vortex and/or wave structures and their dynamics in rotating stratified/barotropic flows. Papers on layer-wise models of vortex and wave dynamics are also invited. Papers focusing on their generation mechanism, stability, evolution, and interactions; on their relationship with smaller-scale flows; and on their effects on tracer transport are solicited. Papers should preferably provide elements of mathematical theories in these contexts, but can also rely on extensive numerical modelling or data analysis. The aim of this Issue is to provide readers with an overview of recent progress in this field, with application to the dynamics of planetary oceans and atmospheres.

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### Guest Editors

Dr. Mikhail A. Sokolovskiy

Institute of Water Problems, Russian Academy of Science, 3 Gubkina Street, 119333 Moscow, Russia

Prof. Dr. Xavier Carton

Laboratoire d’Océanographie Physique et Spatiale, Institut Universitaire Européen de la Mer, Université de Bretagne Occidentale, 29280 Plouzané, France

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### Deadline for manuscript submissions

closed (31 December 2023)



## Symmetry

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*Symmetry*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[symmetry@mdpi.com](mailto:symmetry@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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### Editor-in-Chief

Prof. Dr. Sergei Odintsov  
ICREA, 08010 Barcelona and Institute of Space Sciences (IEEC-CSIC),  
C. Can Magrans s/n, 08193 Barcelona, Spain

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