

## Special Issue

# Satellite Observations of Sea Level and Ocean Circulation

### Message from the Guest Editors

Satellite observations have unveiled many aspects of sea level and ocean circulation, such as the mean dynamic topography, the global mean sea level change, large-scale patterns of sea level variability, mesoscale eddies and fronts, propagation of planetary waves, ocean tides, etc. Combining satellite measurements with in situ observations and numerical models provides a three-dimensional view of the ocean state and how it evolves with time. Papers on all aspects of sea level and ocean circulation that utilize satellite measurements and combine them with in situ observations and ocean models for process-oriented studies are welcome in this Special Issue. Potential topics include but are not limited to the following:

Global mean sea level rise;  
Regional and coastal sea level change;  
Variability of oceanic gyres and regional current systems;  
Regional heat divergence and deep-ocean warming;  
Meridional overturning circulation and how it relates to sea level changes;  
Atmospheric circulation and sea level variability;  
Dynamics of eddies, fronts, and planetary waves.

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### Guest Editors

Dr. Denis L. Volkov

Dr. Léon Chafik

Dr. Marie Isabelle Pujol

Dr. Carmen Boening

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### Deadline for manuscript submissions

closed (1 September 2020)



## Geosciences

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## About the Journal

### Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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### Editor-in-Chief

Prof. Dr. Alberto G. Fairén

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