



## Nonlinear Hydrophysics and Forecasting of Natural Disasters

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submissions:

**closed (20 September 2023)**

### Message from the Guest Editor

Dear Colleagues,

This Special Issue focuses on the physics of nonlinear processes in the hydro and geosphere with applications to dangerous (catastrophic) phenomena, including the following topics: 1. The development of the theory of nonlinear wave processes in the development of geospheric catastrophes with its subsequent binding to the experimental data obtained. 2. Studying the statistics of waves on the sea surface. Analysis of abnormally high emissions. Development of models of the occurrence of killer waves in deep and shallow water conditions with their subsequent verification on the experimental data obtained. 3. Study of the nature of infrasound disturbances created by typhoons during their movement from the moment of occurrence to complete destruction. 4. The development of technology for monitoring catastrophic storms in order to minimize their impact on the environment. 5. The development of a methodology for estimating the main parameters of a tsunami by crustal deformation disturbances with their remote monitoring. 6. The study of microseisms of the "voice of the sea" with the development of the technique of bearing the zones of their formation.





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## Message from the Editor-in-Chief

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