



Remote Sensing of Climate Change Effect on Surface Water Temperature in Lakes and Sea Areas

Guest Editor:

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Message from the Guest Editor

In recent years, our planet has experienced some of the warmest air temperatures ever recorded, accompanied by record-breaking weather extremes such as powerful storms, severe flooding and droughts, and huge wildfires. Therefore, the sensitivity of surface water temperature and its trends in lakes and sea areas requires comprehensive investigation.

Lakes in arid regions characterized by droughts and infrequent rainfall are particularly sensitive to climatic changes. The above-mentioned changes are accompanied by increased evaporation and decreased rates of inflow water. This affects lake water temperature and lake shrinkage. Climate changes contribute to the fact that many of the world's lakes located in arid regions are shrinking at alarming rates.

The aim of this Special Issue is to present studies using state-of-the-art approaches to comprehensively investigate surface temperature trends in lakes and sea areas. These approaches might be based on spatially resolved temperature remote sensing observations, in situ measurements, and model results.





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Message from the Editor-in-Chief

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