atmosphere

an Open Access Journal by MDPI

IMPACT FACTOR 2.9

CITESCORE 4.1

Lake Surface Water Temperature Trend as an Indicator of Global Warming

Guest Editor:

Dr. Pavel Kishcha
Department of Geophysics, Tel Aviv University, Tel Aviv 69978, Israel

Deadline for manuscript submissions:
closed (15 December 2021)

Message from the Guest Editor

Dear Colleagues,

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 droughts, and huge wildfires. Lake surface water temperature determines a large variety of physical, chemical, and biological processes in lake water bodies. As a consequence of the air being in contact with the lake water surface, the air–water interaction affects the dynamics and thermodynamics of the air and water boundary layers. Some other atmospheric factors such as cloudiness and winds as well as their trends could contribute to lake surface water temperature and its trend.

The aim of this Special Issue is to present studies using a state-of-the-art approach for comprehensively investigating surface temperature trends over lakes and adjacent land areas. This approach is based not only on single-point (buoy) observations, but also on spatially resolved temperature observations from satellites and/or model results.

Dr. Pavel Kishcha
Guest Editor

atmosphere

an Open Access Journal by MDPI

IMPACT FACTOR 2.9

CITESCORE 4.1

Editor-in-Chief

Prof. Dr. Ilias Kavouras
Environmental, Occupational, and Geospatial Health Sciences, CUNY School of Public Health, New York, NY 10027, USA

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!

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.
Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

Contact Us

Atmosphere Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/atmosphere
atmosphere@mdpi.com
𝕏@Atmosphere_MDPI