

Special Issue

Impact-Based Forecast and Early Warnings from Meteorological Services

Message from the Guest Editors

Extreme weather events such as extreme heat, heavy rain, and intense tropical cyclones are found to occur in many areas over the whole globe. The conventional weather forecast and warning services face significant challenges when it comes to such high-impact but low probabilistic events. Global climate change is adding to these complexities with processes likely to become more extreme, near linear dependences of variables becoming non-linear, and non-linear events becoming much more difficult to measure, model, and predict. This Special Issue focuses on experience sharing of the development and implementation of impact-based weather forecast and early warning services. It will include the discussion of a number of extreme weather events, such as the definition of cold surges which is better aligned with human thermal perception and the consideration of flooding for rainstorm warning services. It is hoped that the Special Issue will provide a platform for showcasing the latest developments and operational implementation of impact-based weather forecasting and early warning services. Contributions on operational weather forecasting services are particularly welcome.

Guest Editors

Dr. Pak-Wai Chan

Aviation Weather Services, Hong Kong Observatory, Hong Kong 999077, China

Prof. Dr. Andreas Matzarakis

Environmental Meteorology, University of Freiburg, D-79085 Freiburg, Germany

Deadline for manuscript submissions

closed (30 April 2022)



Meteorology

an Open Access Journal
by MDPI



mdpi.com/si/100058

Meteorology

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
meteorology@mdpi.com

[mdpi.com/journal/
meteorology](https://mdpi.com/journal/meteorology)





Meteorology

an Open Access Journal
by MDPI



[mdpi.com/journal/
meteorology](https://mdpi.com/journal/meteorology)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Paul D. Williams
Department of Meteorology, University of Reading, Reading RG6 6ET,
UK

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 37.6 days after submission; acceptance to publication is undertaken in 6.6 days (median values for papers published in this journal in the second half of 2024).

Recognition of Reviewers:

APC discount vouchers, optional signed peer review, and reviewer names published annually in the journal.