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Evaluation of Reanalysis Data in Meteorological and Climatological Applications: Spatial and Temporal Considerations

Guest Editor:

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Message from the Guest Editor

Reanalysis datasets are among the most used gridded data in the study of weather and climate. Due to their homogenous nature and high spatial and temporal resolution (compared to raw observations), they are used for evaluating climate models, irrigation management decisions, soil water balance evolution, flooding predictions, as well as for many other purposes. With multiple reanalysis datasets now available, researchers must consider the strengths and weaknesses of each product by evaluating its quality in reproducing the variation of mean and variability, on spatial and temporal basis, captured in observations. This Special Issue welcomes articles dedicated not only to the evaluation of reanalysis products against observations but also to exploring the effects of uncertainties using reanalysis data in model output. Such models include but are not limited to hydrological, weather forecasting, crop models, and any other models used for meteorological and climatological purposes by taking into account spatial and temporal considerations.

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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