



Discontinuities in Reanalysis Data

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Message from the Guest Editor

Dear Colleagues,

We need dense, high quality data for proper trend analyses in atmospheric science. The density of data is a crucial parameter in computing trends. The number of direct measurements of the atmospheric parameters is not sufficient, especially in the southern hemisphere, and thus we use reanalyses in the atmospheric science, which produce regular dense data that can be used in the trend analyses. The dark side of using the reanalyses in atmospheric research is the occurrence of the artificial discontinuities, which is caused by using new data or new satellites in reanalyses. The aim of this issue is the search for occurrences of artificial discontinuities in reanalyses used in atmospheric science, namely their distribution, time development, etc. Papers that concern this topic are welcome in this Special Issue.





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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!

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