



## Precipitation Observations

Guest Editor:

**Dr. Eva Mekis**

Environment and Climate  
Change Canada, Toronto,  
Canada

Deadline for manuscript  
submissions:

**closed (31 March 2020)**

### Message from the Guest Editor

Dear Colleagues,

Precipitation is a critical component of the water cycle and is fundamental for streamflow, air quality, climate, and weather forecasting. The aim of this Special Issue is to communicate, through a selection of papers, on the current state of science and engineering on precipitation observations. The observed precipitation elements in this context may include total precipitation, rainfall, snowfall, precipitation type and the elements of snow on the ground including depth and water equivalent.

The examples of relevant current issues are:

- Emerging observation technologies including automated catchment and non-catchment instruments;
- Standardized vs climate dependent instrument installation, configuration and maintenance;
- Precipitation observation data flow;
- Instrument and post-measurement data processing and quality issues;
- Catch efficiency, precipitation data adjustments and the associated metadata needs;
- Future opportunities like crowdsourcing and remote sensing with weather radar or satellite.

Dr. Eva Mekis  
*Guest Editor*



[mdpi.com/si/27943](https://mdpi.com/si/27943)



an Open Access Journal by MDPI

## Editor-in-Chief

### Dr. Daniele Contini

Institute of Atmospheric Sciences  
and Climate (ISAC), National  
Research Council (CNR), Str. Prv.  
Lecce-Monteroni km 1.2, 73100  
Lecce, Italy

## 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, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/atmosphere](http://mdpi.com/journal/atmosphere)  
[atmosphere@mdpi.com](mailto:atmosphere@mdpi.com)  
[X@Atmosphere\\_MDPI](https://twitter.com/Atmosphere_MDPI)