

## Editorial

As we will soon celebrate the 90th anniversary of the founding of the Chinese Meteorological Society (CMS), *Acta Meteorologica Sinica (AMS)*, which was originally named as *Bulletin of the Chinese Meteorological Society*, has gone through 89 years of development and excitement since her first issue in July 1925. According to archived documents (CMS Editorial Committee, 1925), *AMS* was founded to report the research findings of Chinese meteorologists, record their recommendations for improving meteorological services, and share their common meteorological interests in order to promote the growth of *AMS* such that more members could be inspired to conduct atmospheric research and meteorological knowledge would be better disseminated to and benefit the general public. By upholding and carrying forward this purpose, *AMS* has published many highly valuable scientific papers. Some could be treated as classical articles, which have produced important influences on both domestic and international meteorological communities and the related fields.

To inherit the tradition of *AMS*, a special issue is published on the occasion of celebrating the CMS' 90th anniversary to summarize innovative achievements of Chinese meteorologists and collect their fine works that were published during the past decade. This special issue consists of 19 articles documenting recent advances in the fields of climate and global changes, earth-climate system dynamics and numerical modeling, theory and teleconnection of the general circulations, front-cyclone and typhoon dynamics, numerical weather prediction and data assimilation, air-ocean and air-land interactions, atmospheric physics, and meteorological measurements, etc. These articles also provide the future research directions and prospects of various subdisciplines from a global scientific perspective.

The articles in this special issue reflect well the flourishing expansion of China's meteorological sciences during the past decade. In particular, rapid growth in computing power has boosted the development and applications of numerical weather prediction models at progressively higher resolutions, and of climate models with more realistic physics parameterizations. With the improved numerical models, we have seen considerable progress in modeling the structures and evolution of severe convective storms and tropical cyclones, and in predicting or simulating extreme weather and climate events. In addition, rapid emergence has occurred in many interdisciplinary fields, such as land-surface processes, satellite remote sensing, meteorological data integration, atmospheric chemistry, and environmental sciences. Accompanied with the prosperity of these fields are the increased digitization, electronic networking, and internationalization of *AMS*, which are also today's trends of many international journals. Up to now, over 400 past and current issues of *AMS* in Chinese and/or English editions have been all archived on the *AMS*' website (<http://www.cmsjournal.net>) to allow free download worldwide.

As for internationalization, the English edition of *AMS* has been accepted by Thomson Reuters for inclusion in the "Science Citation Index-Expanded" (SCIE) database beginning with its 2007 volume. A close collaboration with Springer, which is a well-known publisher, was established in 2011 to improve publication quality and international circulation. The online manuscript processing platform of Thomson Reuters was adopted in 2012 to expedite the publication process of *AMS*. In 2014, the English edition of *AMS* was renamed as *Journal of Meteorological Research (JMR)*, and received national government funds from "Enhancing International Influences

of Scientific Journals Project” to improve the publishing infrastructure. As a result, *AMS/JMR*’s impact factor, annual citation rates, and international download keep rising steadily during the past three years. In particular, a highly international Editorial Board has been formulated to ensure the publication quality. Moreover, *JMR* has participated in the journal exhibition activity during the annual meeting of the American Meteorological Society in 2014.

“Investigating the meteorological essence of the variable sky, reporting innovative findings in atmospheric research,” affirming the awareness of originality, and keeping raising the publication bar and improving the publishing quality have been the aims of *AMS/JMR* during the past decade. As a consequence, *AMS* had been awarded consecutively during the years of 2007–2011 by the China Association for Science and Technology under its “Elite Science and Technology Journals Promotion Project.” In today’s information and big-data era, innovative ways of running journal publication, building a first-class journal, expediting the publication process, and improving international visibility and accessibility, are still the goals of our current practice and future effort.

We must acknowledge that the above-mentioned achievements of *AMS/JMR* would not be possible without much dedicated effort from several generations of editorial board members and senior scholars, and valuable contributions from a large number of previous authors and reviewers during the past nine decades. Many of their manuscripts with excellent science and innovative findings have been first published in *AMS/JMR*. This has not only enhanced the reputation of *AMS/JMR* and promoted the meteorological development in China, but also elevated the stature of China’s meteorological sciences as a whole. On this special occasion, we wish to thank them all for their long-term dedication and support. We would expect to receive the continued concerns and support from editorial board members, authors and reviewers as well as readers of *JMR* at home and abroad in order to make this journal better and better for many years to come. In particular, we hope that *JMR* could become a more influential international journal after steadily growing for another decade, namely, by her centennial birthday.

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Co-Chief Editors

## REFERENCES

- Chinese Meteorological Society Editorial Committee, 1925: An account of the launch of *Bulletin of the Chinese Meteorological Society*. *Bull. Chinese Meteor. Soc.*, **1**, 1.