

Preface to the Special Issue on the National Report to the 28th IUGG General Assembly by CNC-IAMAS (20192022)

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The 28th General Assembly of the International Union of Geodesy and Geophysics (IUGG) will be held on 11–20 July 2023 in Berlin, Germany. The Chinese National Committee (CNC) for the International Association of Meteorology and Atmospheric Sciences (IAMAS) has invited leading Chinese scientists to review the progress and achievements in meteorology and atmospheric sciences in China since 2019, continuing its nearly 40 years tradition of submitting national reports to IUGG. The last four national reports were published as special issues in *Advances in Atmospheric Sciences* (AAS), the only associated journal of IAMAS, in 2007, 2012, and 2019, respectively. These special issues have received increasing global attention and are widely cited.

This newly prepared national report is also published as a special issue in AAS and consists of nine papers on Asian monsoon (Chen et al., 2023), atmospheric chemistry (Zhu et al., 2023), atmospheric electricity (Lyu et al., 2023), atmospheric predictability of weather and climate (Duan et al., 2023b), high impact weather (Zhang et al., 2023), polar climate change and its interactions with the global climate system (Li et al., 2023), the role of stratospheric processes in climate change (Tian et al., 2023), seamless prediction (Ren et al., 2023), and the influences of human activity on regional climate over China (Duan et al., 2023a). Although this report does not cover all topics of the atmospheric sciences, these papers are a good representation of the contributions made to the international community in meteorology and atmospheric sciences by Chinese scientists in the past four years. We sincerely appreciate the efforts of all the scientists involved in compiling this national report.

Chinese National Committee for IAMAS
Mu MU, President
Lei WANG, Secretary General

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