

Atmospheric science is the study of the Earth's atmosphere and its various inner-working physical processes. Meteorology includes atmospheric chemistry and atmospheric physics with a major focus on weather forecasting. Climatology is the study of atmospheric changes (both long and short-term) that define average climates and their change over time, due to both natural and anthropogenic climate variability. Aeronomy is the study of the upper layers of the atmosphere, where dissociation and ionization are important. Atmospheric science has been extended to the field of planetary science and the study of the atmospheres of the planets and natural satellites of the solar system.

In the present book, fifteen typical literatures about Atmospheric science published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on Atmospheric science. We hope this book can demonstrate advances in Atmospheric science as well as give references to the researchers, students and other related people.<sup>1</sup>

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<sup>1</sup> [https://en.wikipedia.org/wiki/Atmospheric\\_science](https://en.wikipedia.org/wiki/Atmospheric_science)