Low-frequency waves in space plasmas have been studied for several decades, and our knowledge gain has been incremental with several paradigm-changing leaps forward. In our solar system, such waves occur in the ionospheres and magnetospheres of planets, and around our Moon. They occur in the solar wind, and more recently, they have been confirmed in the Sun’s atmosphere as well.

The goal of wave research is to understand their generation, their propagation, and their interaction with the surrounding plasma. *Low-frequency Waves in Space Plasmas* presents a concise and authoritative up-to-date look on where wave research stands: What have we learned in the last decade? What are unanswered questions?

While in the past waves in different astrophysical plasmas have been largely treated in separate books, the unique feature of this monograph is that it covers waves in many plasma regions, including:

- Waves in geospace, including ionosphere and magnetosphere
- Waves in planetary magnetospheres
- Waves at the Moon
- Waves in the solar wind
- Waves in the solar atmosphere
Because of the breadth of topics covered, this volume should appeal to a broad community of space scientists and students, and it should also be of interest to astronomers/astrophysicists who are studying space plasmas beyond our Solar System.

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