

Preface to the Vol.14, No. 2, 2019, “Sun and Geosphere”

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The International Space Weather Initiative (ISWI) is a program of international cooperation to advance space weather science by a combination of instrument deployment, analysis of space weather data from these instruments in conjunction with other data, and the communication of such results. ISWI activities are coordinated by a Steering Committee and supported by the ISWI Secretariat, which issues the monthly newsletter and maintains the ISWI website hosted at the Bulgarian Academy of Sciences (www.iswi-secretariat.org).

ISWI has been conducting international space weather science workshops in cooperation with the United Nations Office of Outer Space Affairs over the past decade to disseminate science results from the ISWI community spread over more than 70 countries. The most recent workshop was hosted by the Abdus Salam International Center for Theoretical Physics, Trieste, Italy, during May 24 to 28, 2019. The workshop involved presentations on the three major ISWI activities: science, capacity building, and public outreach.

Following the workshop, the organizers approached the editors of Sun and Geosphere to explore the possibility of publishing a special issue. After acceptance of the proposal, a Call for Papers was issued inviting the broader ISWI community to submit original research contributions to the present special issue of the Sun and Geosphere. The topics cover the range of ISWI scientific activities: (i) Space Weather Instrumentation, (ii) Solar Physics, (iii) Magnetosphere, Ionosphere, and Thermosphere, (iv) Solar-Terrestrial Coupling and Space Weather, (v) Space Weather Effects on Global Navigation Satellite Systems (GNSS), (vi) New Space Weather Scientific Results, and (vii) Capacity-Building, Education and Outreach.

International experts were invited to review the submitted papers. The rigorous peer-review process resulted in the set of ten papers published in this issue; a few papers were also rejected. We are happy to note that about half of the papers are by students, including one by an undergraduate student. We hope that the scientific contributions in these papers will be useful to the space weather community.

The guest editors thank Atila Özgüç (editor-in-chief) and Dimitar Danov (technical editor) for their dedication in bringing out this special issue.

Sun and Geosphere Guest Editors:

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