



The International Space Weather Initiative Workshop on Space Weather: Science and Applications

(ONLINE)

jointly organized by the United Nations Office for Outer Space Affairs and the Vikram Sarabhai Space Centre of the Indian Space Research Organization

2 – 3 November 2021

PROGRAMME

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| Tuesday, 2 November 2021 <i>Time: India Standard Time (UTC + 5:30 hours)</i> | |
| 14:20 | Welcome and opening remarks |
| 14:30 – 17:00 | Session 1: Sun, Solar Wind and Extreme Solar Eruptions |
| 14:30 | Extreme solar eruptions and their space weather Consequences, <i>Nat GOPALSWAMY, National Aeronautics and Space Administration, Goddard Space Flight Center, United States</i> |
| 15:00 | Helioseismology of the Interior Drivers of Solar Magnetism and Variability, <i>S. P. RAJAGURU, Indian Institute of Astrophysics, India</i> |
| 15:30 | The Solar Wind from the Sun to the Earth: A Multi-Scale Plasma, <i>Daniel VERSCHAREN, Mullard Space Science Laboratory, United Kingdom</i> |
| 16:00 | High Precision Pulsar Timing as a Probe of Solar Wind and Energetic Phenomena, <i>B.C. JOSHI, NCRA-TIFR, India</i> |

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| 16:30 | Q&A |
| 17:00 – 17:10 | <i>Break</i> |
| 17:10 – 19:40 | Session 2: Space Weather - Sources, Consequences, Observations and Modeling |
| 17:10 | Fundamental Physics of Space Weather: From the Sun to the Heliosphere, <i>D. NANDI, Indian Institute of Science Education and Research, India</i> |
| 17:40 | F10.7: Sources of the canonical solar EUV proxy, <i>S. SCHONFELD, Boston College, United States</i> |
| 18:10 | The Effects of Extreme Space Weather on Society, <i>Patricia DOHERTY, Boston College, United States</i> |
| 18:40 | The NeQuick Ionospheric Electron Density Model and Space Weather, <i>Bruno NAVA, International Centre for Theoretical Physics, Italy</i> |
| 19:10 | Q&A |
| 19:40 | <i>Adjourn</i> |
| Wednesday, 3 November 2021 | |
| <i>Time: India Standard Time (UTC + 5:30 hours)</i> | |
| 14:30 – 17:00 | Session 3: Space Weather Impacts on Magnetosphere - Thermosphere - Ionosphere System |
| 14:30 | Penetration Electric Fields: Meaning, Nature, Importance and Complexities, <i>D. CHAKRABARTY, Physical Research Laboratory, India</i> |
| 15:00 | Ionospheric Studies using Radars – Indian Perspective, <i>A. K. PATRA, National Atmospheric Research Laboratory, India</i> |
| 15:30 | The Earth's Inner Magnetosphere and Space Weather, <i>Kazuo SHIOKAWA, Nagoya University, Japan</i> |
| 16:00 | Recent Developments for Solar Exploration, <i>Sankar SUBRAMANIAN, Indian Space Research Organization, India</i> |
| 16:30 | Q&A |
| 17:00 – 17:10 | <i>Break</i> |

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| 17:10 – 20:15 | Session 4: Space Weather Instrumentation, Data, Outreach and Education |
| 17:10 | Solar Source Regions of Space Weather Events, <i>B. JOSHI, USO, India</i> |
| 17:40 | International Committee on Global Navigation Satellite Systems: Space Weather and GNSS, <i>Sharafat GADIMOVA, United Nations Office for Outer Space Affairs, Austria</i> |
| 18:10 | Impact of Extreme Space Weather Events, <i>Geeta VICHARE, IIG, India</i> |
| 18:40 | Extreme Space Weather During Quiet Solar Conditions: Dynamics of the Low-Latitude Ionosphere, <i>Keith GROVES, Boston College, United States</i> |
| 19:10 | Space Weather Outreach at the Community Coordinated Modeling Centre (CCMC), <i>M. Leila MAYS, National Aeronautics and Space Administration, Goddard Space Flight Center, United States</i> |
| 19:40 | Q&A |
| 20:10 | <p>Closing remarks</p> <ul style="list-style-type: none"> - Sharafat GADIMOVA, <i>United Nations Office for Outer Space Affairs, Austria</i> - Tarun K. PANT, <i>Vikram Sarabhai Space Centre of the Indian Space Research Organization, India</i> |