United Nations / Japan

Workshop on Space Weather
“Science and Data Products from ISWI Instruments”

Programme

The Luigans Spa & Resort
Fukuoka, Japan

Hosted by

International Center for Space Weather Science and Education,
Kyushu University, on behalf of the Government of Japan

Co-sponsored by

Ministry of Foreign Affairs of Japan (MOFA),
Ministry of Education, Culture, Sports, Science and Technology-Japan (MEXT),
Japan Society for the Promotion of Science (JSPS),
National Institute of Information and Communications Technology (NICT),
Tohoku University, Nagoya University,
and Fukuoka Convention & Visitors Bureau

2 - 6 March 2015
Honorary Committee:

Prof. Chiharu Kubo  
President, Kyushu University, Japan
Ms. Simonetta Di Pippo  
Director, Office for Outer Space Affairs, United Nations
Dr. Takao Doi  
UN Expert on Space Applications, Office for Outer Space Affairs, United Nations

Scientific Organizing Committee (SOC):

Dr. Nat Gopalswamy  
NASA, ISWI, SCOSTEP, United States (Chair)
Dr. Akimasa Yoshikawa  
Kyushu University, Japan (Co-Chair)
Dr. Werner Balogh  
Office for Outer Space Affairs, United Nations (Co-Chair)
Dr. Christine Amory  
University Pierre and Marie Curie, France
Dr. Fairos Asillam  
ANGKASA, Malaysia
Dr. Vafi Doumbia  
l’Université Félix Houphouët-Boigny, Cote d’Ivoire
Dr. Madhulika Guhathakurta  
NASA, United States
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NICT, Japan
Dr. Jose Ishitsuka  
IGP, Peru
Dr. Kanya Kusano  
Nagoya University, Japan
Dr. Ian Mann  
University of Alberta, Canada
Dr. P.K. Manoharan  
NCRA, India
Dr. Christian Monstein  
ETH Zurich, Switzerland
Dr. Takahiro Obara  
Tohoku University, Japan
Dr. Young-deuk Park  
KASI, Republic of Korea
Dr. Babatunde Rabiu  
NASRDA, Nigeria
Dr. Kazuo Shiokawa  
Nagoya University, Japan
Dr. Manuela Temmer  
University of Graz, Austria
Dr. Satoru Ueno  
Kyoto University, Japan
Dr. Rami Vainio  
University of Turku, Finland

Local Organizing Committee (LOC):

Dr. Tsutomu Nagatsuma  
NICT, Japan
Dr. Satoru Ueno  
Kyoto University, Japan

ICSWSE, Kyushu University, Japan:

Dr. Akimasa Yoshikawa (Chair)  
Dr. Hideaki Kawano  
Dr. Masakazu Watanabe,
Dr. Huixin Liu  
Dr. Shuji Abe  
Dr. Teiji Uozumi
Dr. Maria Gracita Cardinal  
Dr. Akiko Fujimoto
Dr. George Maeda  
Ms. Kayo Goto  
Ms. Chieko Furukawa

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Monday, 2 March 2015

Morning
08:00  Registration

09:00  Opening Ceremony
Master of Ceremony: Tohru Hada, Director of ICSWSE, Kyushu University, Japan

09:00  Welcome / Opening Remarks
○ Chiharu Kubo, President, Kyushu University, Japan
○ Kimikazu Iwase, Deputy Director-General for Policy Evaluation, Government of Japan (MEXT)
○ Takao Doi, United Nations Expert on Space Applications, United Nations Office for Outer Space Affairs
○ Nat Gopalswamy, Chair of SOC, Executive Director of ISWI, NASA, United States

10:00  Keynote Addresses
Chairperson: Tohru Hada, Director of ICSWSE, Kyushu University, Japan

10:00  ICSWSE and the MAGDAS Project
Akimasa Yoshikawa
ICSWSE, Kyushu University
Japan

10:30  NASA’s effort to characterize, understand and predict space weather events and international cooperation in space weather
Madhulika Guhathakurta
NASA Heliophysics
United States

11:00  Coffee/Tea Break – Group Photo

11:30  Workshop Introduction

11:30  United Nations Programme on Space Applications, Workshop Objectives and Practical Arrangements
Werner Balogh
United Nations Office for Outer Space Affairs

12:15  Lunch

Afternoon
13:15  Session 1: Space Weather Instrumentation
Chairperson: Takao Doi, United Nations Office for Outer Space Affairs
Rapporteur: Maria Gracita Cardinal, Philippines

13:15  Solar radio spectrometer network e-Callisto
Christian Monstein
ETH Zurich
Switzerland

13:30  Current status of the space weather study using the Global Muon Detector Network (GMDN)
Kazuoki Munakata
Shinshu University
Japan
13:45  The MITRA as a solar and ionospheric instrument  
Girish Beeharry  
Mauritius Radio Telescope/Physics Dept.  
University of Mauritius  
Mauritius

14:00  The TNU-SuperSID teaching module: enhancing student's knowledge in space science  
Tan Le  
Department of Physics  
Tay Nguyen University  
Vietnam

14:15  CHAIN project: Typical Solar Active Phenomena Obtained with CHAIN’s Instruments and a New Solar Station in Saudi Arabia  
Satoru Ueno  
Kyoto University  
Japan

14:30  Role of the ISWI-MAGDAS Bac Lieu Observatory in the space weather studies in Vietnam  
Ha Duyen Chau  
Institute of Geophysics  
Viet Nam

14:45  e-CALLISTO Station in Sri Lanka  
Janaka Adassuriya  
Arthur C Clarke Institute for Modern Technologies  
Sri Lanka

15:00  Coffee/Tea Break

15:30  Contributions of the Nobeyama Radioheliograph to space weather research  
Satoshi Masuda  
Solar-Terrestrial Environment Laboratory  
Nagoya University  
Japan

15:45  Using the NASA Heliophysics Virtual Observatories (VxOs) to Distribute ISWI Instrument Data  
Shing Fung  
NASA Goddard Space Flight Center  
United States

16:00  Recent MAGDAS activities in Australia  
Richard Marshall  
Bureau of Meteorology  
Australia

16:15  Study on the effects of space weather by complex measurements at Yakutsk Meridional Chain Stations  
Dmitry Baishev  
IKFIA  
Russia
16:30  **Panel Discussion 1:**
ISWI Instrument Network and Future of ISWI

  *Chair:* Nat Gopalswamy, NASA, United States
  *Rapporteur:* Elijah Olukayode Falayi, Nigeria
  *Participants:* Christine Amory, University Pierre and Marie Curie, France, Vafi Doumbia, Université Felix Houphouët-Boigny, Cote d’Ivoire, Hans Haubold, United Nations Office for Outer Space Affairs (retired), Christian Monstein, ETH Zurich, Switzerland, Akimasa Yoshikawa, ICSWSE, Kyushu University, Japan

18:30  **Ice Breaker Reception**
Tuesday, 3 March 2015

Morning

09:00  **Session 2: Solar Weather/National Activities**
**Chairperson:** Terry Onsager, NOAA, United States  
**Rapporteur:** Emad M. H. Takla, Egypt

09:00  Report of Space Weather Expert Group of Long-Term Sustainability Working Group under UN COPUOS  
**Takahiro Obara**  
Tohoku University  
Japan

09:15  An overview of National Space Agency of Malaysia (ANGKASA) space weather research activities: past, present and future  
**Nyanasegari Bhoo Pathy**  
National Space Agency of Malaysia (ANGKASA)  
Malaysia

09:30  Current status of space weather program in Indonesia  
**Clara Yono Yatini**  
LAPAN Space Science Center  
National Institute of Aeronautics and Space  
Indonesia

09:45  Variability of the Sun and its terrestrial impact (VarSITI): SCOSTEP’s scientific program in 2014-2018  
**Kazuo Shiokawa**  
Solar-Terrestrial Environment Laboratory  
Nagoya University  
Japan

10:00  UN COPUOS: New Space Weather Expert Group  
**Ian Mann**  
University of Alberta, Canada

10:15  International Space Weather Initiative in Africa: Benefits, implications and some new scientific results  
**Babatunde Rabiu**  
Center for Atmospheric Research CAR  
National Space Research and Development Agency NASRDA, Nigeria

10:30  Network and products of the INPE's Space Weather program (EMBRACE)  
**Joaquim Rezende Costa**  
INPE - National Institute for Space Research  
Brazil

10:45  Coffee/Tea Break
11:15 **Session 3: Weak Solar Activity**  
*Chairperson: Madhulika Guhathakurta, NASA Heliophysics, United States*  
*Rapporteur: Magdi Elfadil Yousif Suliman, Sudan*

- **11:15** Solar energetic particles and accompanied solar phenomena - statistical studies in solar cycle 23 and the rising half of solar cycle 24  
  *Rositsa Miteva*  
  *Space Research and Technology Institute*  
  *Bulgarian Academy of Sciences*  
  *Bulgaria*

- **11:30** Declining Solar Polar Fields and their Signatures in the Solar Wind: Implications to near Earth Space  
  *Janardhan Padmanabhan*  
  *Physical Research Laboratory*  
  *India*

- **11:45** Weak Solar Activity in Cycle 24 and the Consequent Mild Space Weather  
  *Nat Gopalswamy*  
  *NASA Goddard Space Flight Center*  
  *United States*

- **12:00** 93 Years of Geomagnetic Data Acquisition at Huancayo Observatory  
  *Jose Kaname Ishitsuka*  
  *Geophysical Institute of Peru*  
  *Peru*

12:15 **Session 4: Coupling Processes**  
*Chairperson: Young-deuk Park, Korea Astronomy & Space Science Institute (KASI), Republic of Korea*  
*Rapporteur: Mohamad Huzaimy Jusoh, Malaysia*

- **12:15** Sun impacts on ionized layers and transient variations of the Earth magnetic field  
  *Christine Amory*  
  *University Pierre and Marie Curie*  
  *France*

- **12:30** Observations of equatorial ionization anomaly over Africa during a year of deep minimum  
  *Segun Olawale Bolaji*  
  *University of Lago*  
  *Nigeria*

- **12:45** TEC variability of low latitude ionosphere and role of dynamical coupling: quiet and storm time characteristics  
  *Gebregiorgis Fikade*  
  *Mekelle University*  
  *Ethiopia*

- **13:00** Coordinated optical, radio and magnetic investigations of wave dynamics in the daytime upper atmosphere  
  *Deepak Karan*  
  *Physical Research Laboratory*  
  *India*

- **13:15** *Lunch*
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<th>Time</th>
<th>Session 5: Magnetosphere, Ionosphere and Atmosphere</th>
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| 14:00 | **Chairperson:** Ian Robert Mann, The University of Alberta, Canada  
**Rapporteur:** Nurul Shazana binti Abdul Hamid, Malaysia |
| 14:00 | Role of ULF Waves in Ultra-relativistic Radiation Belt Dynamics: Explaining the 3rd belt | Ian Robert Mann  
The University of Alberta  
Canada |
| 14:15 | On the correlation between geo-electric fields and GPS positioning errors | Paul Baki Olande  
Technical University of Kenya  
Kenya |
| 14:30 | Characteristics of TEC perturbations observed over the mid-to-low latitude regions during geomagnetic storms | Patrick Sibanda  
University of Zambia  
Zambia |
| 14:45 | Problems associated with ionosphere study by using tiny satellite | Koichiro Oyama  
National Cheng Kung University/Kyushu University  
Japan |
| 15:00 | Ionospheric Scintillations and TEC Characteristics at Solar Minimum in a West African Equatorial Region Using GPS Data | Jean-Baptiste Ackah  
University of Felix Houphouët Boigny  
Cote d’Ivoire |
| 15:15 | Some variations of the ionospheric scintillation in Vietnam | Tran Lan  
Institute of Geophysics  
Vietnam |
| 15:30 | Coffee/Tea Break | |
| 16:00 | Signatures of solar event at middle and low latitudes in the Europe-African sector, during geomagnetic storms, October 2013 | Ilyasse Azzouzi  
Laboratoire de Physique des Plasmas (LPP)  
Ecole Polytechnique, Paris  
Morocco |
| 16:15 | Semiannual Variations of Ionospheric Chaoticity and Dynamical Complexity over the Equatorial Ionization Anomaly Region | Babalola Ogunsua  
Department of Physics  
Federal University of Technology, Akure  
Nigeria |
| 16:30 | Spatio-temporal characteristics of the Equatorial Ionization Anomaly (EIA) in the East African sector using ionospheric tomography | Gogie Tsegaye  
Washera Geospace and Radar Science Laboratory, Bahir Dar University  
Ethiopia |
| 16:45 | Geospace Exploration Project ERG | Yoshizumi Miyoshi  
Solar-Terrestrial Environment Laboratory  
Nagoya University  
Japan |
Panel Discussion 2:  
International Cooperation in Space Weather

Chair:  
• Terry Onsager, NOAA, United States

Rapporteur:  
• Nurul Shazana Abdul Hamid, Malaysia

Participants:  
• Babatunde Rabiu, National Space Research and Development Agency NASRDA, Nigeria
• Ivan Dorotovic, Slovak Central Observatory, Slovakia
• Madhulika Guhathakurta, Office of Space Science, NASA, United States
• Koichiro Oyama, National Cheng Kung University/Kyushu University
• Joaquim Rezende Costa, INPE - National Institute for Space Research, Brazil

18:00 Adjourn

Wednesday, 4 March 2015

Morning  
09:00-18:00  
Full Day Workshop: Solar-Terrestrial Environment Data Analysis

The solar-terrestrial environment (STE) data analysis workshop is promoting collaborative analyses of observation and simulation data to study the cause-effect activities from the Sun to the Earth using latest space weather events. The workshop is held twice a year in Japan. We select three or four scientifically interesting events during the periods for detailed analysis. Presentations of analysis on the past remarkable geoeffective events are also welcome.

18:00 Adjourn/Banquet

Thursday, 5 March 2015

Morning  
09:00  
Session 6: Space Weather Impact and Awareness

Chairperson: Hans Haubold, United Nations Office for Outer Space Affairs (retired)  
Rapporteur: Estelle Dirand, France

09:00  
Geomagnetic disturbance effects in the geo-electric field variations at low latitude  
Vafi Doumbia  
UFR SSMT  
Universite Felix Houphouet Boigny  
Cote d’Ivoire

09:15  
Magnetic and ionospheric observations in the Russian far East region during the magnetic storm of 5 April 2010  
Dimitry Baishev  
Yu.G.Shafer Institute of Cosmophysical Research and Aeronomy SB RAS  
Russian Federation
09:30  Forecasting the electron fluxes at geosynchronous orbits via latitudinal global-mode Pc 5 pulsations: A statistical analyses comparison study

Magdi Elfadil Yousif Suliman
Sudan University of Science and Technology
Sudan

09:45  The role of MAGDAS-Sumatra to study Earthquake Precursors In Sumatra

Suaidi Ahadi
STMKG Meteorological Climatological and Geophysical Agency
Indonesia

10:00  Possible Physical Mechanism between Solar Activity and Earthquake Events

Mohamad Huzaimy bin Jusoh
Universiti Teknologi MARA
Malaysia

10:15  Nonadditive Entropies: From Einstein to Space Weather

Constantino Tsallis
National Institute of Science and Technology for Complex Systems
Brazil

10:45  Coffee/Tea Break

11:15  Probing electromagnetic state of interplanetary space through measurements of cosmic ray diurnal anisotropy with GRAPES-3 tracking muon detector

Mohanty Pravata
Tata Institute of Fundamental Research
India

11:30  Panel Discussion 3
Space Weather Data Utilization and Operational Use

Chair:
• Shing Fung, NASA Goddard Space Flight Center, United States

Rapporteur:
• Maria Gracita Cardinal, Philippines

Participants:
• Richard Marshall, Bureau of Meteorology, Australia
• Satoshi Masuda, Nagoya University, Japan
• Christian Monstein, ETH Zurich, Switzerland
• Terry Onsager, NOAA, United States

13:00  Lunch

Afternoon Cultural Event – Excursion/Free Afternoon
Friday, 6 March 2015

Morning
9:00  Session 7: Sun to Earth Space Weather Modelling  
Chairperson: Akimasa Yoshikawa, ICSWSE, Kyushu University, Japan  
Rapporteur: Elijah Olukayode Falayi, Tai Solarin University of Education, Nigeria

9:00  Statistical study of the relationship between the solar energetic particle events and associated solar phenomena 
Susan Stefan  
NRIAG  
Egypt

9:15  The Development of LEO-NEqO Trapped Particles Forecasting System 
Gusrizal  
Space Science Center  
Universiti Kebangsaan Malaysia  
Indonesia

9:30  Session 8: Hands-On Workshop organized by ICSWSE  
Lecturers: Shuji Abe (ICSWSE, Kyushu University), Norio Umemura, Tomoaki Hori (STEL, Nagoya University), Satoru Ueno (Kwasan and Hida Observatories, Kyoto University), Shun Imajo (Kyushu University) and students of Kyushu University

09:30  Introduction to the IUGONET

09:50  How to install SPEDAS

10:10  How to operate SPEDAS VM – Part1

11:00  How to operate SPEDAS VM – Part2

11:50  Free discussion

12:30  Lunch

Afternoon
13:30  Session 9: Observations, Recommendations and the Way Forward  
Chairperson: Nat Gopalswamy, NASA, United States

13:30  Workshop Review, Observations and Recommendations  
All Workshop Participants

15:00  Coffee/Tea Break

15:30  Discussion of Future Space Weather Activities  
All Workshop Participants
16:00  **Closing Session**  
*Master of Ceremony: Akimasa Yoshikawa, Kyushu University, Japan*

Closing Remarks by the organizers  
- **ICSWSE**
- **ISWI**
- **United Nations Office for Outer Space Affairs**

17:00  *Adjourn - Transfer to the hotel and end of the Workshop*
## Poster Presentations

*Chairperson: George Maeda, ICSWSE, Kyushu University, Japan*

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<td>Nurul Shazana</td>
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<td>Local Time and Longitudinal Dependence of Equatorial Electrojet Calculated from Ground-based Magnetometer</td>
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<td>Centre for Radio Astronomy and Astrophysics, Sao Paulo</td>
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<td>Slovak Central Observatory, Hurbanovo</td>
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<td>Estelle</td>
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<td>A Study of variation in horizontal geomagnetic field during geomagnetic substorms at different latitudes</td>
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<td>Grodji</td>
<td>Oswald Didier</td>
<td>Université Félix Houphouët Boigny de Cocody</td>
<td>Cote d'Ivoire</td>
<td>Study of the Equatorial Electrojet (EEJ) effects along 210° meridian magnetic, comparison results in West Africa (meridian 5°W)</td>
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<td>Hasanudin</td>
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<td>Magnetic Calculator</td>
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<td>UN-13</td>
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<td>Institute of Ionosphere</td>
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<td>Dept. of Earth and Planetary Sciences, Kyushu University</td>
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<td>Mohd. Kasran</td>
<td>Farah Adilah</td>
<td>Universiti Teknologi Mara (UiTM)</td>
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<td>Usage of MAGDAS data for space weather science in Indonesia: study of outer electron belt acceleration</td>
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<td>The IUGONET and its products for space weather study</td>
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<td>UN-24</td>
<td>Shun</td>
<td>Imajo</td>
<td>Dept. of Earth and Planetary Sciences, Kyushu University</td>
<td>Japan</td>
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<tr>
<td>UN-27</td>
<td>Takla</td>
<td>Emad</td>
<td>National Research Institute of Astronomy and Geophysics</td>
<td>Egypt</td>
<td>Latitudinal dependence of Pc 3-4 amplitude in the African sector using MAGDAS data</td>
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<tr>
<td>UN-28</td>
<td>Ward</td>
<td>Jonathan</td>
<td>South African National Space Agency</td>
<td>South Africa</td>
<td>SuperDARN or e-Callisto</td>
</tr>
</tbody>
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Publication Plan

The papers to be presented at the UN/Japan Workshop on Space Weather: Science and Data Products from ISWI Instruments will be published in "Sun and Geosphere" as a special issue. The papers will undergo the usual peer-refereeing process and published in Volume 10, Number 2 of the Journal.

The submission deadline is June 30, 2015. Since we are planning to have the issue brought out within 2015, please adhere to the deadline. There is no page limit. On-line submission can be made starting June 1, 2015 at the web site: http://sungeosphere.org/. Detailed information on the manuscript preparation and submission can be found on this web site.

Kindly note that /Sun and Geosphere/ has published papers from previous ISWI workshops.