SCOSTEP-WDS Workshop
"Global Data Activities for the Study of Solar-Terrestrial Variability"

28-30 September 2015 Tokyo, Japan

web-address: http://isds.nict.go.jp/scostep-wds.2015.org/
Contact Point: contact-scostep-wds(at)icsu-wds.org

Preliminary Program

27 September. (SUN) 16:00 - 19:00
Registration, Icebreaker, Meetings (to be announced)

28 September. (MON)

10:00-10:30 Registration, Poster posting
10:30-10:40 **Opening Remarks SOC**
10:40-11:00 Long-term Preservation of Solar terrestrial Data *N Gopalswamy*
11:00-11:20 Data-oriented Activities of WDS (TBD) *M Mokrane*
11:20-11:40 Variability of the Sun and Its Terrestrial Impact (VarSITI): SCOSTEP's scientific program in 2014-2018 *K Shiokawa and K Georgieva*
11:40-12:00 General Information on Workshop LOC
12:00-12:20 Information on Data-System Demonstrations and Site Visits LOC, Exhibiters
12:20-14:00 Lunch,
Data-system Demonstrations, Poster Viewing, and Site Visits (Facilities of NICT, WDS-IPO)
14:00-14:10 Opening Address of Plenary Sessions *F Tomita*

Session 1: Data-oriented Information Technology

14:10-14:35 Mining Data Citation for Usage Analysis of Open Science Data (Invited) *K. Zettu*
14:35-15:00 Using A Virtual Observatory (VO) to Enable Multidisciplinary Data Analysis (Invited) *Shing F. Fung et al*.
15:00-15:25 NOAA National Centers for Environmental Information Space Physics and Geomagnetism Activities: Historical perspective and future directions (Invited) *R J Redmon et al*.
15:25-15:50 Challenges in geomagnetic data processing for a better understanding of geomagnetic field evolution (Invited) *A Solovyev and A Rybkina**
15:50-16:10 Break
16:10-16:30 IUGONET (Inter-university Upper atmosphere Global Observation NETwork) activities *T Nakamura et al*.
16:30-16:50- Application of SPEDAS to VarSITI Program -- Introduction of IUGONET and ERG-SC Plugins *Y. Tanaka et al*.
16:50-17:40 **Short Presentations of Posters** (3-min each)
17:40-18:30 Poster Viewing

29 September. (TUE)
Session 2: Data Analyses of VarSITI and STE Events

10:00-10:10 Scope of the Session *T. Watanabe*
10:10-10:30 ISEST Data Products and Campaign Study (Invited) *Jie Zhang*
10:30-10:50 Extreme space weather events as seen in the historical geomagnetic records of Colaba, India and their estimation of interplanetary conditions (Invited) *B Veenadhari et al.*
10:50-11:05 Global solar activity in Cycle 24 *K Shibasaki*
11:05-11:20 Geomagnetic storms of Cycle 24 and their solar sources *S Watari et al*.
11:20-11:30 Break
11:30-11:50 Overview of solar-terrestrial environment between March and Septembertember, 2015 *S Abe*
11:50-12:05 The first super geomagnetic storm of solar cycle 24: "The St. Patrick day (17 March 2015)" event *Chin-Chun Wu et al*.
12:05-12:20 Flux rope structures of the solar wind associated with two intense geomagnetic storms in 2015: the 17 March and the 22 June storms *K Marubashi et. al*.
12:20-12:30 Group Photo at Entrance Lobby (GF)
12:30-13:30 **Lunch**,
Poster Viewing, Data-system Demonstrations
13:30-13:45 Pileup accident hypothesis of magnetic storm on 2015 March 17 *R Kataoka, et al*.
13:45-14:05 Van Allen Probes Observation of prompt energization of electrons to ultra-relativistic energies during the 17 March 2015 IP shock (Invited) *S G Kanekal* and *D. N. Baker*
14:05-14:20 Recent geoeffective space weather events and technological system impacts *R J Redmon et al*.
14:20-14:35 Experiences of Forecasting the magnetic storms of March and June 2015 and analysis of the resulting ground effects in the UK *S J Reay et al*.
14:35-14:50 Upper atmosphere data in the polar region during the March 17-18 and June 22-24, 2015 geomagnetic storms *Y Tanaka et al*.
14:50-15:05 Break
15:05-15:20 Energetic particle precipitations impacts on the mesosphere observed by the PANSY radar *T Nishiyama et al*.
15:20-15:35 Multi-instrumental study of the ionospheric response to the 2015 St. Patrick's Day storm *E Astafyeva, I Zakharenkova*, and M Forster*
15:35-15:50 Dynamics of ionospheric convection associated with low latitude aurora in Hokkaido during the March 2015 storm *N. Nishitani et al*.
15:50-16:05 Low-latitude red aurora observed in Japan during the St. Patrick's Day 2015 *Event K. Shiokawa et al*.
16:05-17:30 Short Presentations, Discussions
18:00-20:00 Banquet (to be announced)

30 September. (WED)

Session 3: Activity Reports of Data Systems of WDS and VarSITI

10:00-10:25 Introduction to Chinese Meridian Project (Invited) *C Wang*

10:25-10:45 CSSDC promoted service also strengthened connection to Solar-Terrestrial Community through deep projects cooperation
*Zou Ziming, Xiong Senlin**, and *Ji Zhen*

10:45-11:05 The World Data Centre (WDC) for Solar-Terrestrial Science (STS) of Australia *K Wang et al*.

11:05-11:25 Recent activities of the World Data Centre for Geomagnetism (Edinburgh) *S J Reay et al*.

11:25-11:40 Break

11:40-12:00 Continued operation of Nobeyama Radioheliograph and its database *S Masuda et al*.

12:00-12:20 The neutron monitor database (NMDB) *C Steigies*

12:20-13:30 Lunch, Poster viewing

Session 4: Future Collaboration between SCOSTEP/VarSITI and WDS

13:30-13:50 Scope of the session *T. Iyemori*

13:50-14:15 Open Data, Open Publication and Open Science Approach for Geo and Space Science Domain (Invited) *B Ritschelet et al*.

14:15-14:35 Activity of CODATA on Earth and Space Science Data Interoperativity (TBD) *A Rybkyna*

14:35-14:55 Recent activity of DOI-minting to solar-terrestrial physics data in Japan *M Nose et al*.

14:55-15:15 Break, Poster removal

15:15-15:35 WDS Knowledge Network TBD

15:35-16:10 Discussion

16:10-16:30 Concluding Remarks

Posters

P1 Development of the JavaFX-based iUgonet Data Analysis Software (JudasFX) *Y Koyama et al*.

P2 A geomagnetic event review from March to August, 2015 at Kakioka *M Sasaoka et al*.

P3 Data publication of the Kakioka Magnetic Observatory *S Nagamachi et al*.

P4 The necessity of "scientifically related" database in solar-terrestrial physics *M Ishii et al*.

P5 New solar radio telescope of NICT *K Iwai, et al*.

P6 Data standardization and distribution of NICT solar radio observation *Y Kubo et al*.

P7 Variation of Solar Microwave Spectrum in the Last Half Century *M Shimojo, et al*.

P8 Development of solar flare prediction technique based on image processing of real-time solar magnetogram data *N Nishizuka et al*.

P9 Routine observations and data acquisition of the ionosphere at Syowa station Antarctica *T Nagatsuma et al*.

P10 Space environment data acquisition monitor (SEDA) onboard HIMAWARI-8 as a space weather monitoring platform *T Nagatsuma et al*.

P11 Cosmic-Ray Neutron Databese held by WDC for Cosmic Rays *T Watanabe et al*.

P12 Observation of the high-latitude ionospheric irregularities: methodology and service *I Cherniak et al*.

P13 Dynamics of the ionospheric irregularities during the St. Patrick's Day storm by ground-based GPS measurements *I Cherniak et al*.

P14 Relationship between amplitude of geomagnetic sudden commencement(SC) and the corresponding dynamic pressure variation of the solar wind T Araki and A Shinbori

P15 Equatorial Plasma Bubbles Studies using Airglow and GPS Data *D J Shetti et al*.