

Session Schedule

Oct. 24, 2016 (Mon)

10:00-10:30	Opening Ceremony
	Ceremony Chair : WI Gwansik (KSWC, Korea)
Opening Addr	ress
	HAN Wonyong (President, Korea Space Science Society, Korea)
Welcome Spee	
	CHOI Jaeyou (The 2th Vice Minister, Ministry of Science ICT and Future Planning, Korea)
Congratulatory	
	Kazumasa Taira (General Director, AERI NICT, Japan)
10:30-10:40	Photo Session
10:40-12:00	Special Session 1 : SWx Policy & Strategy
	Chair : HAN Jinwook (KSWC, Korea)
S1-1	KSWC Space Weather services & future plan
	WI Gwansik (KSWC, Korea)
S1-2	Japanese current status for space weather
	Mamoru Ishii (NICT, Japan)
S1-3	Development of Operational Space Environment Technology System
	Bingxian Luo (NSSC, China)
S1-4	Bureau of Meteorology's Space Weather Services
	Phillip Maher (SWS, Australia)
12:00-13:30	Lunch Time
13:30-15:00	Special Session 2
	• Chair : YOON Kichang (KSWC, Korea)
Keynote 1	International Organization Activities on Space Weather
	Terrance Onsager (ISES/WMO)



Keynote 2	ESA Space Weather
	Juha-Pekka Luntama (ESA)
S 2 - 1	Mexican Space Weather Service
	Ernesto Aguilar-Rodriguez (SCIESMEX, Mexico)
S 2 - 2	Space Weather Programme in Malaysia
	Farahana Kamarudin (National Space Agency of Malaysia, Malaysia)
15:00-15:30	Coffee Break
15:30-18:00	Special Session 3
	Chair : LEE Dong-Hun (KHU, Korea) /
	MOON Yong-Jae (KHU, Korea)
6 1	
S3-1	Space Weather Information and Forecast Services in Indonesia
	Clara Yatini (Space Science Center LAPAN, Indonesia)
S 3 - 2	UK space weather & L5 mission
	Suzzy Bingham (MET Office, UK)
S 3 - 3	United States Space Weather Strategy and Action Plan
	Terrance Onsager (SWPC, USA)
S 3 - 4	Space Weather Data Sharing Services in IGGCAS
	Xiukuan Zhao (IGGCAS, China)
S 3 - 5	Space Weather Service and Products in Taiwan
	I-Te Lee (Central Weather Bureau, Taiwan)
S 3 - 6	Overview of the Korea Meteorological Administration(KMA)'s Space Weather Service and R&D Program
	KIM Jiyoung (Korea Meteorological Administration, Korea)
S 3 - 7	KASI's Contributions to Space Weather
	CHO kyungsuk (KASI, Korea)
S 3 - 8	Observations for the polar space environment at Korea Polar Research
3 3 - 0	Institute (KOPRI)
	JEE Geonhwa (Korea Polar Research Institute, Korea)
S 3 - 9	Radio Heliophysics for Space Weather Applications
	Mario M. Bisi (STFC RAL Space, UK)
S3-10	Introduction of TEIN and TEIN*CC
	Patch Lee (Trans-Eurasia Information Network, Korea)
18:30-	Welcome Dinner (Ice Break)



Oct. 25, 2016 (Tue)

09:00-11:00	General Session 1 : Solar Physics & Interplanetary Space
	Chair : Bernard Jackson (UCSD, USA) /
	Mario M. Bisi (STFC RAL Space, UK)
G1-1	Radio observations and Space Weather Research
	Jasmina Magdalenic (Royal Observatory of Belgium, Belgium)
G 1 - 2	Space Weather Study Using Interplanetary Scintillation Observations at ISEE
	Munetosh Tokumaru (ISEE Nagoya University, Japan)
G 1 - 3	Interplanetary Scintillation and Space Weather Forecast
	P. K. Manoharan (NCRA, India)
G 1 - 4	IPS studies with the new generation of Radio Telescopes
	John Morgan (Curtin University, Australia)
G 1 - 5	Recent Improvements of the WSA-ENLIL Cone Modeling System and Using IPS Data for Opeational Space Weather Predictions Dusan Odstrcil (NASA-GSFC/GMU, USA)
G1-6	Contributions of the Nobeyama Radioheliograph to space-weather science
	Satoshi Masuda (Nagoya University, Japan)
G 1 - 7	Accuracy Issues in Space Weather MHD Models
	LEE Dong-Hun (Kyung Hee University, Korea)
G1-8	Deflected propagation of coronal mass ejections from the Sun to 1 AU
	Yuming Wang (USTC, China)
11:00-12:00	Poster Session
12:00-13:30	Lunch Time
13:30-15:00	General Session 2 : Solar Physics & Interplanetary Space
13.30-13.00	
	Chair : Cho Kyungsuk (KASI, Korea)
G 2 - 1	Project for Solar-Terrestrial Environment Prediction (PSTEP) in Japan
	Kanya Kusano (Nagoya University, Japan)
G 2 - 2	On Predicting Solar Activity
	CHAE Jongchul (Seoul National University, Korea)

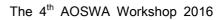


G 2 - 3	Lessons Learned in transitioning CME auto-detection and interplanetary propagation tools into operational services Siging Liu (NSSC, China)
G 2 - 4	Prospects for numerical solar activity forecasting
• - ·	Huaning Wang (NAO, China)
G 2 - 5	R&D for solar activity forecast in NICT
	Yuki Kubo (NICT, Japan)
G 2 - 6	Probing the maximum coronal mass ejection speed index as a potential indicator of geoeffectiveness of solar activity Vasyl Yurchyshyn (NJIT Big Bear Solar Observatory, USA)
15:00-15:15	Coffee Break
15:15-16:15	General Session 3 : Ionosphere
	Chair : RYU Kwangsun (KAIST, Korea)
G 3 - 1	Prediction of plasma bubble occurrence using the atmosphere-ionosphere coupled model GAIA
	Hiroyuki Shinagawa (NICT, Japan)
G 3 - 2	Data Assimilation and Adjusted Spherical Harmonic Model of VTEC Map over Thailand
	Somjai Klinngam (KMITL, Thailand)
G 3 - 3	Global and regional ionospheric modeling to understand equatorial
	plasma bubble
	Tathuhiro Yokoyama (NICT, Japan)
G 3 - 4	-
G 3 - 4 16:15-17:00	Tathuhiro Yokoyama (NICT, Japan) Recent progress of NICT ionospheric observations in Japan
	Tathuhiro Yokoyama (NICT, Japan) Recent progress of NICT ionospheric observations in Japan Kakuya Tsugawa (NICT, Japan)
16:15-17:00	Tathuhiro Yokoyama (NICT, Japan) Recent progress of NICT ionospheric observations in Japan Kakuya Tsugawa (NICT, Japan) Trip to Sanghyowon Botanical Garden



Oct. 26, 2016 (Wed)

09:00-11:00	General Session 4 : Ionosphere
	Chair : KIM Yongha (Chungnam University, Korea) /
	KWAK Young-sil (KASI, Korea)
G 4 - 1	Space weather of the ionospheric S4 scintillation
	Jann-Yenq Liu (National Central University, Taiwan)
G 4 - 2	Tomographic Analysis of Ionosphere and Plasmasphere
	KIM Yongha (Chungnam National University, Korea)
G 4 - 3	Development of Korea GNSS CORS monitoring system
	MUN Juncheol (KSWC, Korea)
G 4 - 4	Ionospheric regional forecasting using statistical method for GPS application
	Mardina Abdullah (ANGKASA, Malaysia)
G 4 - 5	Development of Global Ionospheric Electron Density Monitoring System Using FORMOSAT-7/COSMIC-2
	Charles Lin (National Central University, Taiwan)
G 4 - 6	Ionospheric and magnetic signatures of the magnetic storm on March 2015 observed in the Southeast Asian region
	Minh Le Hyu (HIG, Vietnam)
G 4 - 7	F2 region response to meteorological phenomena and geomagnetic disturbances
	A. K. Upadhayaya (CSIR-NPL, India)
G 4 - 8	Space Weather monitoring by GNSS Radio Occultation Technique
	Xinan Yue (IGGCAS, China)
11:00-12:00	Poster Session
12:00-13:30	Lunch Time
13:30-15:00	General Session 5 : Magnetosphere
	Chair : Hwang Junga (KASI, Korea)
Keynote 3	Current state of Radiation belt Modeling: Successes and Challenges
	H. Reiner (Los Alamos, USA)
Kounota 1	
Keynote 4	NASA Space Weather Alex Young (NASA, USA)





G 5 - 1	Magnetosphere/Ionosphere study with formation flying nanosats
G 5 - 2	LEE Jaejin (KASI, Korea) Space weather effects on meteorological and atmospheric electrical parameters Sergey Smirnov (IKIR, Russia)
	Sergey Smirnov (IKIK, Kussia)
15:00-15:30	Coffee Break
15:30-17:00	General Session 6 : Magnetosphere
	Chair : LEE Daeyoung (Chungbuk University, Korea)
G 6 - 1	Support Vector Machine combined with Distance Correlation learning for Dst forecasting during intense geomagnetic storms Jianyong Lu (Nanjing University, China)
G 6 - 2	Magnetosphere Research Activity in NICT: Observation and Modeling
G 6 - 3	Aoi Nakamizo (NICT, Japan) Relativistic electron flux forecast at geostationary orbit using multiple linear regression model HWANG Junga (KASI, Korea)
G 6 - 4	Forecasting Geomagnetic Disturbances at NOAA with Michigan's Geospace Model Howard Singer (SWPC, USA)
G 6 - 5	Establishment of Abdus Salam Geomagnetic Observatory, Pakistan: From Site Selection to INTERMAGNET Certification Murtaza Ghulam (SUPARCO, Pakistan)
G 6 - 6	NICT's Geospace Monitoring and Forecasting
	Tsutomu Nagathuma (NICT, Japan)
17:00-18:00	Break

18:00- Dinner (BBQ)



Oct. 27, 2016 (Thur)

09:00-09:30 Summary of AOSWA-4 YOON Kichang (KSWC, Korea) Closing Ceremony Ceremony Chair : WI Gwansik (KSWC, Korea)

09:30-18:00 Excursion Tour



Poster Presentation

11:00-12:00 Poster Session

Oct. 25-26

Solar Physics & Interplanetary Space

P - 01 A statistical relationship between high speed solar wind streams and lightning rate over South Korea

LEE Dong-Hee (KMA, Korea)

P - 02 Brief Review on KSEM: The first space-based magnetometer on eastern geostationary orbit

OH Daehyeon (KMA, Korea)

P - 03 Current status of KMA's operational space weather service

YI Wonhyeong (KMA, Korea)

P - 04 The 1st Korea Space Weather mission from Geostationary orbit : Current status and Plans

LEE Hyesook (KMA, Korea)

P – 05 Progress on Heliospheric Faraday Rotation for Space Weather Purposes

Mario M. Bisi (STFC RAL Space, UK)

P - 06 Analysis of observations of IPS at 140 MHz by the Mexican Array Radio Telescope for space weather applications

E. Aguilar-Rodriguez (UNAM/MEXART/SCiESMEX, Mexico)

P – 07 Coronal Mass Ejections' Automatic Forecast System

Bin Zhuang (Department of Earth and Space Science, USTC, China)

P – 08 Learning Solar Flare Forecasting Model From Magnetogram Pixels

Xin Huang (NAO/CAS, China)

P – 09 Flare Prediction Model with Machine-Learning using Vector Magnetogram and Chromospheric Brightening

Naoto Nishizuka (NICT, Japan)



P – 10 First Detection of Radial and Azimuthal Oscillations in Halo Coronal Mass Ejections

LEE Harim (SSR, Kyung Hee University, Korea)

P – 11 2016 Total Solar Eclipse Expedition of KASI

BONG Su Chan (KASI, Korea)

P – 12 Heating of an erupting prominence associated with a coronal mass ejection on 2012 January 27

LEE Jin-Yi (Kyung Hee University, Korea)

P – 13 Relations of Seismic Properties with Solar Activity from 1996 to 2015

KIM Kibeom (Kyungpook National University, Korea)

P - 14 Forecast of a solar daily X-ray peak flux based on deep learning using SOHO MDI magnetograms

KIM Taeyoung (InSpace Co. Ltd., Korea)

P – 15 Statistical characteristics of interplanetary magnetic field near the Earth

CHOI Kyung-Eun (Chungbuk National University, Korea)

Chenglong Shen (School or Earth and Space Science, China)

P – 17 Prediction of long-term solar activities based on fractal dimension method

KIM Roksoon (KASI, Korea)

P – 18 Probing Heliospheric Disturbances using Low Frequency Radio Imaging Arrays

Colin Lonsdale (MIT Haystack Observatory, USA)

P – 19 Propagation of MHD disturbance in numerical modelling: Accuracy issues and condition

KIM Kyung-Im (SSR, Kyung Hee University, Korea)

P – 20 What determines IMF northward/southward directions at the Earth?

SUNG Suk-Kyung (Kyung Hee University, Korea)

P – 21 Verification on Radiation Pattern Of IPS Array With

KIM Tae Young (Radar&Space Co. Ltd., Korea)



P – 22 Two peculiar examples of ICME impacts on the Earth: the September 2014 and March 2015 Events

CHO Kyungsuk (KASI, Korea)

P – 23 World Interplanetary Scintillation Systems (WIPSS) USE of the UCSD IPS Tomography Program for Space Weather Forecasting

Bernard Jackson (UCSD, USA)

Ionosphere

P – 24 Occurrence climatology of E- and F-region field-aligned irregularities in the middle latitudes as observed by the Daejeon 40.8 MHz coherent scatter radar in South Korea

KWAK Young-Sil (KASI, Korea)

P – 25 Ionospheric electron density forecast during geomagnetic storm time

Chia-Hung Chen (National Cheng Kung University, Taiwan)

P – 26 The Australian Region Ionospheric Maps

Zahra bouya (BOM/SWS, Australia)

P – 27 Verification of a revised version of SAMI3 with the observed ionospheric data over the Korean peninsula

KIM JeongHeon (KASI, Korea)

P – 28 Storm time varaition of radiative cooling of thermosphere by nitric oxide emission

MV Sunil Krishna (IITR, India)

P – 29 Korean three dimensional ionosphere electron density modeling using data assimilation

Chalachew Kindie Mengist (Chungnam National University, Korea)

P – 30 Forecast model of ionospheric total electron content over Japan using a machine learning technique

Michi Nishioka (NICT, Japan)

P – 31 Research and Monitoring of The Ionosphere over Indonesia for Space Weather Information and Forecast Services (SWIFtS)

Jiyo (LAPAN, Indonesia)

P – 32 High-resolution GNSS-TEC observations using dense GNSS receiver networks

Takuya Tsugawa (NICT, Japan)



Pre-earthquake Anomalous Ionospheric signatures observed at low P – 33 mid-latitude Indian station Delhi during the year 2015 to early 2016: Preliminary results

Sumedha Gupta (Radio & Atmospheric Sciences Division, India)

P – 34 The plasma density Irregularities in the middle latitude F-region using the observation data by multiple instruments

OH Seung-Jun (SELab, Inc., Korea)

P – 35 Three-dimensional raytracing for HF radio communication

Kornyanat Watthanasangmechai (NICT, Japan)

P-36 Plasma bubble observed from the ground to space, from the past to the future

Kornyanat Watthanasangmechai (NICT, Japan)

P – 37 The variations of ionosphere critical frequency of E layer over the equatorial geomagnetic region in Southeast Asia

Prasert Kenpankho (KMITL, Thailand)

Magnetophere

P – 38 Space Weather Monitoring with Van Allen Probes Beacon Signals

LEE Jongkil (KASI, Korea)

P – 39 Dependence of spacecraft anomalies on energetic electron/proton particle fluxes

YI Kangwoo (SSR, Kyung Hee University, Korea)

P - 40 Observational Test of Empirical Magnetopause Location Models with Geosynchronous Data from 1996 to 2010

PARK Eunsu (SSR, Kyung Hee University, Korea)

P - 41 Statistical Analysis of The Geomagnetic Field Variation due to The Solar Eclipse

KIM Jung Hee (Kyungpook National University, Korea)

P – 42 Observational test of Earth's bow shock locations from gasdynamics and magnetohydrodynamics during low Alfven Mach number conditions

LEE Jae-Ok (SSR, Kyung Hee University, Korea)

P - 43 An analysis of magnetospheric and ionospheric responses to the Sudden Commencement (SC) event on 16 Feb 2013

KIM Su-In (SSR, Kyung Hee University, Korea)



P – 44 Statistical analysis of EMIC Pc1-Pc2 waves observed at the subauroral-latitude Athabasca (L ~ 4.6) ground station

LEE Sung-Hwan (SSR, Kyung Hee University, Korea)

P – 45 Development of Advanced SAFE system (Safety during Aviation Flight Environment from radiation)

OH YunHee (InSpace Co., Ltd., Korea)

P – 46 Space Environment Monitoring Sensor Survey and Analysis for Consumers Requirement of Space Environment Information Service

JEONG CheolOh (ETRI, Korea)

P – 47 A study on EMIC waves and their closely located external sources by using CLUSTER satellite data

LEE Sung-Hwan (SSR, Kyung Hee University, Korea)

P – 48 Developing the geomagnetic indices prediction algorithms using artificial neural network and linear multiple regression

PARK Wooyeon (KASI, Korea)

P – 49 Effects of asymmetry between the northern and southern ionospheres on quarter waves

JANG Jae-Jin (SSR, Kyung Hee University, Korea)

P – 50 Quantitative comparison between KREAM (Korean Radiation Exposure Assessment Model for aviation route dose) and NAIRAS

JO Gyeongbok (KASI, Korea)

P – 51 On the characteristics of field line resonances in non-symmetric conditions

CHOI Jiwon (SSR, Kyung Hee University, Korea)

P – 52 Development of High Energy Particle Detector (HEPD) onboard Instruments for the Study of Space Storms (ISSS)

SOHN Jongdae (KASI, Korea)

P – 53 Relationship between geomagnetic indices and satellite anomaly event on geosynchronous orbit

LEE Junhyun (KASI, Korea)

P – 54 The comparison of electron flux prediction at geostationary orbit using two methods

PARK Keunchan (Chungnam National University, Korea)