

Issue 8, March 2019

We hope the AOSWA framework helps  
our activities for improving space weather.

<http://aoswa.nict.go.jp/>

# AOSWA *Link*

## *In this Issue...*

◆ **Brief Report of the 5th AOSWA Workshop  
Bandung, 19-21 September 2018**

By Rhorom Priyatikanto

Researcher, National Institute of Aeronautics and Space (LAPAN)

◆ **EVENT REPORT**

**Space Weather as a Global Challenge 2018**

By Mamoru Ishii, Director, Space Environment Laboratory  
Applied Electromagnetic Research Institute, NICT

◆ **ANNOUNCEMENT**

**AOSWA session in AOGS 2019 will be held**

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## **Your contribution is always welcome!**

If you wish to submit an article, you are greatly appreciated. The articles should be approximately 500 words and contain either figures or pictures. Also It is available for use as a means of spreading information, such as upcoming conference and so on. Your feedback is always welcome.

Contact : [sw-project-office@ml.nict.go.jp](mailto:sw-project-office@ml.nict.go.jp)

# Brief Report of the 5th AOSWA Workshop Bandung, 19-21 September 2018

By Rhorom Priyatikanto

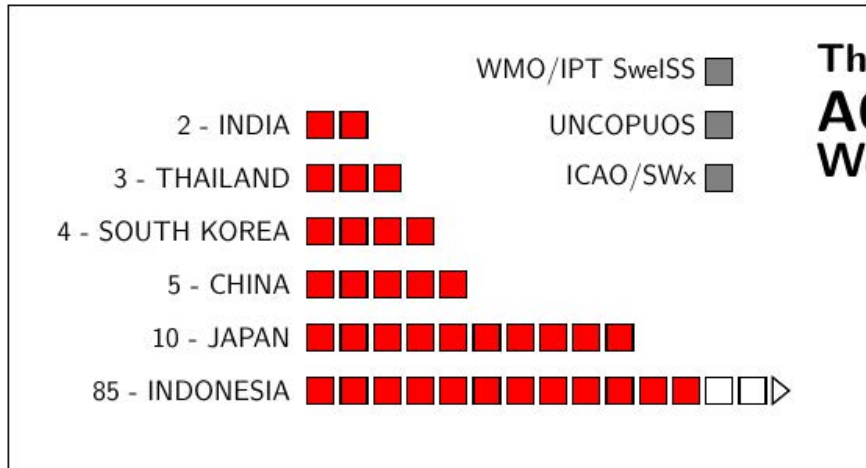
Researcher, National Institute of Aeronautics and Space (LAPAN)

Relatively clear days of mid-September 2018 became the period of implementation of the 5th Asia-Oceania Space Weather Alliance (AOSWA) Workshop in Bandung, Indonesia. This event was hosted by Space Science Center of the National Institute of Aeronautics and Space (LAPAN) in Aryaduta Hotel at the very center of Bandung. Since 18th of September, most of International participants started to arrive in Husein Sastranegara Airport which is less than 30 minutes drive from the venue.

On 19th September, AOSWA Workshop was started with welcoming address by Mrs. Clara Yatini, the Director of Space Science Center,

continued with congratulatory address by Dr. Kazumasa Taira, the Director of Applied Electromagnetic Research Institute NICT. Opening address was delivered by the Prime Secretary of LAPAN, Prof. Erna S. Adiningsih who encouraged participants not only to focus on the serious meeting but also to enjoy the city. Carrying a bold tagline “to meet, to connect and to foster for better living in space”, AOSWA Workshop was intended to encourage cooperation and sharing information related to space weather research and operation. The opening was then proceeded by keynote speeches by Prof. Jiyaou Xu from NSSC China and Prof. Thomas Djamaluddin from LAPAN.

Figure 1 Group photo on the first day of the workshop



## The 5th AOSWA Workshop

2.5 Days  
 6 Countries + 3 Bodies  
 33 Orals + 6 Posters  
 108 Participants

Figure 2 Breakdown of participants

With the total duration of two and half days, AOSWA had rather hectic schedule composed of three special and general session to accommodate presentations on research and operation issues, world partnership, and growing activities in Indonesia. In total, there were 33 speakers and 6 poster presenters participated, including Dr. Ian Mann (UN COPUOS), Mr. Toshiyuki Kurino (WMO), and Mr. Raul Romero (ICAO) who attended virtually through teleconference system, managed by Dr. Mamoru Ishii, supported by the organizing committee. Though separated by almost 12 hours in time, those outstanding speakers reminded workshop participants about

increasing demands on accurate space weather information. Special Gala Dinner was held in the rooftop of Aryaduta Hotel to conclude the first day workshop and also to provide participants with the warmth of Bandung atmosphere and culinary.

Besides scientific presentations and updates from distinguished researchers, there were also live space weather forecasts by a number of AOSWA institution members, at most twice a day. Various methods and models to predict Solar and space weather activities were presented on stage.

Figure 3 Warm discussion during the session



**Figure 4 Poster session**

On the last day, the workshop was concluded before noon along with announcement that the next AOSWA Workshop is likely to be held in Malaysia. After the closing and lunch, a fraction of participants joined excursion to the Space Science Center LAPAN and Saung Angklung Udjo. Beautiful music performance using Gamelan and Angklung and also amazing children orchestra became the best course of

the day. Lastly, farewell dinner at the hotel completed the blocks of AOSWA Workshop 2018.

Space Science Center LAPAN appreciates the supports by AOSWA steering committee and also cooperation from all participants in accordance with the success of the workshop. See you in the next meeting.

**Figure 5 Group photo at Saung Angklung Udjo with very young Angklung performers and dancers**



# EVENT REPORT

By Dr. Mamoru ISHII, Director, Space Environment Laboratory,  
Applied Electromagnetic Research Institute, NICT

## Space Weather as a Global Challenge 2018

On July 24, 2018, "Space Weather as a Global Challenge 2018" was held at Embassy of Japan in the US, Washington DC. This meeting was jointly hosted by the National Institute of Information and Communications Technology (NICT), the US Department of State, Embassy of Japan in the US, and the Japan Aerospace Exploration Agency (JAXA). Approximately 80 people mainly from Japan, the US and Europe participated.

This event is based on "National Space Weather Strategy" and "National Space Weather Action Plan", which has been released by the US Department of State in Executive Office of the President on October 2015.

The first meeting was held on April 2016 at US Department of State. In the following year, the second meeting was held at Embassy of Italy in the US. And this time, the third meeting was opened.

The event was started with welcome remarks by Mr. Kazutoshi Aikawa, envoy extraordinary and minister plenipotentiary of Japan, and Mr. Jonathan Margolis, deputy assistant secretary for science, space, and health of the US.

In session 2: "Japan's Space Weather Efforts and Outlook", Dr. Hideyuki Tokuda, the president of NICT reported the current status of NICT's space weather research.

Also, during session 4: "Toward Improved Space Weather Services and Preparedness", Dr. Mamoru Ishii, director of NICT Space Environment Laboratory introduced attempts of utilizing state-of-the-art research results under domestic collaboration in the "PSTEP (Project for Solar-Terrestrial Environment Prediction)", and participated in the panel discussion which was continuously held.

In session 5: "Perspectives from the Private Sector", Dr. Ishii served as a moderator and

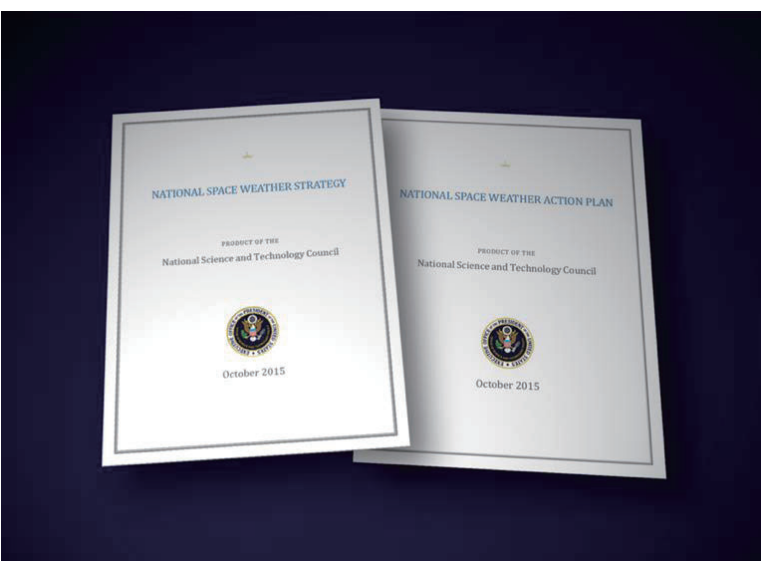


Figure 1 "National Space Weather Strategy" and "Action Plan"



**Figure 2 Session 5 “Perspectives from the Private Sector”**

reviewed the efforts related to the Space Weather by Japanese and American private companies. Especially, the contributions by

private companies in the US were featured. The US private companies assume important roles as well as universities, as players of the research base, not only by putting research results of Space Weather information to practical use, but also contributing basic research by funds from the National Science Foundation (NSF). Subsequently, meaningful discussions were developed.

In conclusion, Mr. Tomohiko Arai, the science counselor of the Embassy of Japan in the US, and Mr. Chris Cannizzaro, diplomat of the US Department of State summarized the meeting with their closing remarks.



**Figure 3 Group photo of the event**





## AOSWA session in AOGS 2019 will be held

The 16th annual meeting of Asia Oceania Geosciences Society (AOGS2019) will be held from 28th July to 2nd August 2019 in Singapore. We, AOSWA will have a session in this meeting.

In the business meeting at AOSWA 5 in Bandung, we have discussed and agreed that

we will have the AOSWA session in AOGS when the year of AOSWA regular workshop is not held.

In this session, we will be able to discuss about further international cooperation and improvement of space weather research and operation. You are strongly encouraged to attend this session!

Session details;

Venue: SUNTEC Singapore Convention & Exhibition Centre

Time, date: 28th July to 2nd August 2019

**\*Program will be decided. Please check the AOGS Web site.**

AOGS 2019 WEB: <http://www.asiaoceania.org/aogs2019/>

Session ID: ST22

Section(s) ST - Solar and Terrestrial Sciences (Primary)

PS - Planetary Sciences

Session Title: Space Weather Research and Operation in Asia Oceania

Convener Details:

Main Convener Dr. Mamoru Ishii

(National Institute of Information and Communications Technology, Japan)

Co-conveners

Dr. JS Choi (RRA, Korea, South)

Dr. I-Te Lee (Meteorological Information Center, CWB, Taiwan)

Prof. Pornchai Supniti (KMITL, Thailand)

Dr. Clara Yatini (Indonesian National Institute of Aeronautics and Space, Indonesia)

# Editor's notes

*Kenji Nakayama, Editor of AOSWA LINK*

First of all, I would like to introduce myself. My name is Kenji Nakayama from NICT, a successor of Ms. Yuko Uchida, as a secretariat of AOSWA from April 2018.

My first job as AOSWA secretariat was a camera crew at the AOSWA5. The workshop is almost 6 months ago, but I can still realize the warm atmosphere during the workshop seems like yesterday.

I felt a lot of things from AOSWA5 LOC, all the LAPAN staffs. They made a significant contribution through the workshop; picked us up at the airport voluntary by smooth drive, worked harder from morning to the business meeting in mid night, and invited us to the wonderful excursion to LAPAN headquarter and Indonesian traditional musical. I would like to express my grateful to the LOC. And also I hope to contribute to AOSWA like them.



*The another group photo in the excursion*

## AOSWA LINK is issued by AOSWA Secretariat

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