



28 July 2010

FIRST ANNOUNCEMENT

The 17th Session of the Asia-Pacific Regional Space Agency Forum **(APRSAF-17)**

**“The role of space technology and industry
in addressing climate change”**

23-26 November 2010, Melbourne, Australia

Dear Sir/Madam,

We are pleased to inform you that there will be held the seventeenth session of the Asia-Pacific Regional Space Agency Forum (APRSAF-17) from 23 to 26 November 2010 in Melbourne, Australia. The APRSAF-17 will be jointly organized and co-hosted by the Department of Innovation, Industry, Science and Research (DIISR) of Australia, the Ministry of Education, Culture, Sports, Science and Technology (MEXT) of Japan and the Japan Aerospace Exploration Agency (JAXA).

On behalf of the APRSAF-17 organizers and on our own behalf, we invite you to take part in the APRSAF-17 to share your valuable experiences as well as your profound thoughts and insights. We also take the liberty of requesting for a good number of participation in the APRSAF-17 from your organization as well.

While the APRSAF is designed to serve as an active forum to promote concrete cooperative activities to address common issues at the regional level, we, by making best use of this framework, aim to contribute toward solving problems not only of the Asia-Pacific region but also of the whole world as well as to exploit space technology development and utilization for sustainable development of countries in the Asia-Pacific region.

As usual, the APRSAF-17 is going to have the plenary session and sessions of the four working groups (WGs): Earth Observation (EO) WG, Communication Satellite Applications (CSA) WG, Space Education and Awareness (SEA) WG and Space Environment Utilization (SEU) WG. And during the APRSAF-17, we will also share the progress reports on the APRSAF initiatives including Sentinel Asia, SAFE (Satellite Applications For Environment) and the STAR (Satellite Technology for the Asia-Pacific Region) program.

Additionally, we will have the Global Navigation Satellite System (GNSS) workshop in Melbourne just prior to the APRSAF-17 on 21 and 22 November. The summary of GNSS workshop will be presented in the report session of Communication Satellite Applications (CSA) WG at the plenary session. Also, the outline of space education and capacity building programs, which Japan is undertaking in various manners, will be presented at the APRSAF-17, and some of the programs will be highlighted.

Further details of the APRSAF-17 will be sent to you in due course. We do hope that you will join us at the APRSAF-17 in November along with your colleagues.

With warmest regards,

APRSAF Secretariat

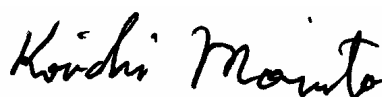
APRSAF-17 & Relevant Events

Date	Event	Venue
20-21 Nov. 2010	Water Rocket Event	VSSEC and Cross Keys Reserve
21-22 Nov. 2010	GNSS Workshop	Crown Conference Centre
22 Nov. 2010	SAFE Workshop	Crown Conference Centre
23-26 Nov. 2010	APRSAF-17	Crown Conference Centre
23-26 Nov. 2010	Poster Contest	Crown Conference Centre

On behalf of the co-host organizations,



Michael Green
General Manager
Innovation and Space Branch
Department of Innovation, Industry, Science and Research



Koichi Morimoto
Deputy Director-General
Research and Development Bureau
Ministry of Education, Culture, Sports, Science and
Technology



Keiji Tachikawa
President
Japan Aerospace Exploration Agency

The 17th Session of the Asia-Pacific Regional Space Agency Forum (APRSAF-17)

“The role of space technology and industry in addressing climate change”

23-26 November 2010, Melbourne, Australia

Background

The Asia-Pacific Regional Space Agency Forum (APRSAF) was established in 1993 in response to the declaration adopted at the Asia Pacific International Space Year Conference (APIC) held in 1992, to enhance the development of each country's space program and to exchange views toward future cooperation in space activities in the Asia-Pacific region. The APRSAF has held sixteen annual meetings organized jointly by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) of Japan, Japan Aerospace Exploration Agency (JAXA) and co-host organizations of countries participating in the APRSAF, to discuss current space-related issues and possible cooperation among countries mainly in the region. The co-host countries have been Mongolia, Malaysia, the Republic of Korea, the Kingdom of Thailand, Australia, the Republic of Indonesia, India and Vietnam. APRSAF features to promote concrete regional cooperation on space-related matters through open and voluntary participation. To reflect a broad range of views and voices, the APRSAF intends to ensure wider participation of space agencies, government entities, regional and international organizations and institutions responsible for space applications.

The 16th Session of the APRSAF (APRSAF-16) was convened in Bangkok under the main theme of "Space Applications: Contributions towards Human Safety and Security" with the aim to strengthen and enable the countries in the Asia-Pacific region to enrich the quality of life of their people through enhanced use of space-based systems, activities and services. It was jointly organized by Thailand and Japan: Ministry of Science and Technology (MOST), and Geo-informatics and Space Technology Development Agency (GISTDA) of Thailand, and MEXT and JAXA of Japan. The APRSAF-16 gathered 310 participants from 27 countries and regions and 10 international organizations. As the results of the discussions at the Plenary

session and the four working groups (Earth Observation (EO), Communication Satellite Applications (CSA), Space Environment Utilization (SEU) and Space Education and Awareness (SEA), the APRSAF-16 adopted the recommendations as shown in Appendix-A.

Objectives

While the APRSAF has been an active forum to promote concrete cooperative activities to resolve common problems at the regional level, the APRSAF-17 will be held under the main theme of “The role of space technology and industry in addressing climate change” with the aim to contribute toward solving problems not only of the Asia-Pacific region but also of the whole world as well as to exploit space technology development and utilization for sustainable development of countries in the Asia-Pacific region.

Plenary and Working Groups

The Plenary session will take place in the third and fourth days of the APRSAF-17. Prior to the Plenary session, it is proposed to have parallel sessions for the working groups (WGs): Earth Observation (EO) WG, Communication Satellite Applications (CSA) WG, Space Education and Awareness (SEA) WG and Space Environment Utilization (SEU) WG in the first and second days of the APRSAF-17. The concept paper of each working group will be provided to you in due course.

At the Plenary session, a status report of the Sentinel Asia Project, SAFE (Satellite Applications For Environment), STAR (Satellite Technology for the Asia-Pacific Region) program will be presented.

- Sentinel Asia was initiated as the first step to build a space-based disaster risk management system in the Asia-Pacific region since the APRSAF-12, and now that has entered into STEP2 Project.
- SAFE (Satellite Applications For Environment) was recommended in APRSAF-15 in 2008 as a platform for development of solution-oriented prototype systems for space-based environmental monitoring, in particular to assess regional impacts of climate change. Its basic concept for future prototype activities is contributing to GEOSS.

- STAR (Satellite Technology for the Asia-Pacific Region) program was proposed in the APRSAF-14 as a new international cooperation scheme on small satellite development. The objective of this cooperation is to provide opportunities of capacity building on satellite development for space agency staffs in Asia-Pacific countries, to increase the number of available Earth observation satellites in this region and meet the needs of Earth observation in the future.
- The Global Navigation Satellite System (GNSS) workshop will be held in Melbourne just prior to the APRSAF-17 from 21 - 22 November. The summary of GNSS workshop will be presented in the report session of Communication Satellite Applications (CSA) WG at the plenary session.
- The outline of space education and capacity building programs that Japan has been offering will be also presented at the APRSAF-17, and some of the programs will be highlighted.

Expected Attendance

Senior officials of relevant Ministries as well as heads and other representatives of space agencies, remote sensing agencies, and interested institutions from governments, academic circles and industries including private sectors are very much welcome to participate in the APRSAF-17.

**Participants from Australia are recommended to contact the Point of Contact of the DIISR mentioned below to obtain more detailed information for participation.*

Tentative Program

Please see Appendix-B.

Date and Venue for APRSAF-17

Date: 23 to 26 November 2010

Venue: Crown Conference Centre, in Melbourne, Australia.

**Further detailed information will be announced in due course.*

Accommodation

The way of booking accommodation will be announced in due course at APRSAF Website.
(<http://www.aprsaf.org>)

Points of Contact

For Participants from Australia:

If you have any inquires concerning the APRSAF-17, please feel free to contact:

Ms. Michele Clement

Manager

Space policy Unit

Department of Innovation, Industry, Science and Research

TEL:+61 2 6213 7669 FAX:+61 2 6290 8923

E-mail: michele.clement@innovation.gov.au

For Participants from the countries except Australia:

If you have any inquires concerning the APRSAF-17, please feel free to contact:

Ms. Yukiko Okabe,

APRSAF-17 Secretariat

Manunouchi Kitaguchi building,

1-6-5 Marunouchi, Chiyoda-ku, Tokyo, 100-8260, JAPAN

TEL:+81-50-3362-5880, FAX:+81-3-6266-6908

E-mail: aprsaf-17@aprsaf.org

APRSAF-17 Side Event

■APRSAF-17 Poster Contest

Theme: “Space Technology to Help the Earth”

Co-organizers: DIISR, VSSEC and JAXA

Date: During the sessions of APRSAF-17

Venue: Crown Conference Centre, Melbourne, Australia

Reference: http://www.aprsaf.org/data/aprsaf17_data/APRSAF17_Poster_Contest.pdf

■APRSAF-17 Water Rocket Event

Co-organizers: DIISR, VSSEC and JAXA

Date: November 20-21, 2010

Venue: VSSEC and Cross Keys Reserve, Strathmore, Melbourne, Victoria, Australia

Reference: http://www.aprsaf.org/data/aprsaf17_data/APRSAF17_WRE_Outline.pdf

Contact for further information (Poster contest & Water Rocket Event)

Ms. Yayoi Miyagawa, JAXA Space Education Center

Tel: +81-50-3362-7590

Fax: +81-42-759-8612

Email: aprsaf17@edu.jaxa.jp

Further detailed information on the program, registration and logistics of the APRSAF-17 will be available in due course. Please visit the APRSAF website at: <http://www.aprsaf.org>

Other

■Asia-Oceania Regional Workshop on GNSS

Date: 21 - 22 November 2010

Venue: Crown Conference Centre in Melbourne, Australia.

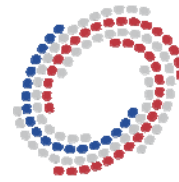
*Further detailed information will be released in due course <http://www.multignss.asia/>

Contact for further information

Mr. Hiroaki Tateshita, JAXA SAPC

Tel: +81-50-3362-3361 Fax: +81-29-868-5975

Email: ws@multignss.asia



16TH
APRSAF

Asia-Pacific Regional
Space Agency Forum

**Recommendations of the sixteenth session of
The Asia-Pacific Regional Space Agency Forum (APRSAF-16)
"Space Applications: Contributions towards Human Safety and Security"
26-29 December 2009
Bangkok, Thailand**

Recognizing that the space technology and its applications substantively contribute to development human safety and security in the Asia-Pacific region,

Recognizing that the importance of regional cooperation to cope with disaster management, environmental issue, capacity building, quality of human life, health, and other regional issues,

Hereby affirm that we, the participants of APRSAF-16,

[Sentinel Asia]

1. Confirm that the activities of the Joint Project Team for STEP 2 are going well and welcome the new STEP2 Web-GIS will be replaced from the STEP1 system from April 2010;
2. Confirm that utilization of WINDS“KIZUNA” was steadily started to transmit images rapidly;
3. Welcome that KARI and GISTDA started to provide images along with JAXA and ISRO, then let’s call “Sentinel Asia Constellation” as a generic nick name for their satellites;
4. Welcome the new working group called the Glacial Lake Outburst Flood Monitoring WG (GLOF-WG), was launched at the last JPTM held last July;
5. Welcome that Asian Disaster Reduction Center (ADRC) acting as a point of contact of emergency observation requests for Sentinel Asia, established an UN-SPIDER Regional

Support Office (RSO) from last June, and also welcome that collaboration between Sentinel Asia and International Disaster Charter to enhance capability for disaster response in the Asia-Pacific region was agreed;

6. Desire that utilization of Sentinel Asia shall be increasing used by disaster management organizations with support of UNESCAP and so on;

[STAR Program (Satellite Technology for the Asia-Pacific Region Program)]

7. Confirm that STAR program started at JAXA Sagamihara campus in June 2009, and the 2nd STAR program technical workshop was held to report the progress in Bangkok;

8. Welcome that the steady progress of development of Micro-STAR satellite and system study of EO-STAR satellite;

9. Welcome the STAR Program Coordination Group (SPCG) was established to coordinate and decide programmatic issues for the STAR program, consisted by STAR program participating organization;

10. Encourage to dispatch their staffs continuously and long term from the participating agencies for the STAR program at JAXA Sagamihara campus and concurrent engineering works at each agency;

11. Encourage the organizations concerned to provide launch opportunity for the Micro-STAR satellite, ground station operation resource, and necessary instruments;

[SAFE (Space Applications For Environment)]

12. Appreciate to see the successful story of that the SAFE prototyping activities in Vietnam ready to complete successfully as a success story of SAFE prototyping, and expect to ready to discussion to develop into practical usage

13. Confirm the progress of ongoing four SAFE prototyping and the approval of two new proposals (Sri Lanka: sea level rise and Indonesia: potential drought) as SAFE prototyping;

[Earth Observation]

14. Recognize that the participating countries and international organizations have various needs for space applications to cope with the climate change adaptation and mitigation issues, disaster management and climate change affected issues such as health, water management, biodiversity, forest cover change, and encourage SAFE prototype activities to expand their scopes and applications as well as making a bridge to practical use;

15. Realize the value to continue information exchange with private sectors and encourage their participation to implement space applications to support climate change adaptation and mitigation, as well as disaster monitoring and mitigation in Asia Pacific countries by sharing their space application expertise.

[Communication Satellite Applications]

16. Recognize the importance of continuing development of applications regarding tele-education, tele-medicine, disaster management and mitigation, and healthcare issue in the Asia-Pacific region;

17. Agree to promote the Asia-Pacific regional cooperation by sharing the experiences and the opportunities such as the WINDS satellite experiments and working on the creation of new applications;

18. Welcome the successful completion of the first regional workshop on Global Navigation Satellite Systems (GNSS), and expect to launch the Multi GNSS demonstration campaign as a new initiative for sustainable development of the Multi GNSS applications including QZSS utilization in this region in APRSAF-17.

[Space Education and Awareness]

19. Recommend that all countries and international organizations that participate in APRSAF should support space education efforts, to enhance the quality of education for young people at all educational levels and to contribute to human development at individual level;

20. Agree that efforts should be further strengthened to provide support to school teachers to facilitate the integration of space subjects and materials into the school curricula by, among other things, increasing the availability of educational materials in local languages and providing more training opportunities for teachers in space education;

21. Agree that through APRSAF, space education activities should be expanded in terms of participation, type and funding sources and that those activities should contribute to global initiatives undertaken by entities of the United Nations system and other international organizations in areas relating to space education and awareness;

[Space Environment Utilization]

22. Welcome the completion of Japanese Experiment Module “KIBO” and the success of KIBO assembly after quarter century efforts, and the success of the first HTV mission;

23. Appreciate the realized and enhanced opportunity of KIBO utilization based on 2 years operations, and recognize that education activities and outreach to public, as well as scientific experiments, are promising mission for successful “KIBO” utilization among APRSAF participating countries;

24. Recommend to expand the task force activities to realize a joint “KIBO” utilization for education and outreach to public, such as “KIBO Hi-vision EarthView” program;

25. Encourage to further promote bilateral cooperation activities among APRSAF participating countries;

[UN COPUOS]

26. Wish that the outcomes of the APRSAF-16 will be presented by the Chairman of UNCOUOS at the meetings of the UNCOUOS as well as its Scientific and Technical Subcommittee at their meetings in 2010;

27. Recommend the Chairman of UNCOUOS to present the outcomes of APRSAF-16 as regional cooperative structures to other region such as Latin America and Africa in order to promote inter-regional cooperation as mandated by UN General Assembly.

Tentative Program

The 17th Session of the Asia-Pacific Regional Space Agency Forum (APRSAF-17)

as of 25 Aug 2010

<Day 0> 22 November, Monday

[Work Shop : 13:00-18:00]

	Start 13: 00 End 18:00			
	SAFE W.S. (A. Earth Observation W.G.)	B. Communication Satellite Applications W.G.	C. Space Education & Awareness W.G.	D. Space Environment Utilization W.G.
13:00-15:00	[Co-chairs] Dr. Shinichi Sobue Associate Senior Engineer, Earth Observation Research Center, JAXA Dr. Chris Pigram Chief Executive Officer Geoscience Australia	/	/	/
15:00-15:15	Coffee Break			
15:15-18:00	SAFE W.S. (A. Earth Observation W.G.)	/	/	/

Tentative Program

The 17th Session of the Asia-Pacific Regional Space Agency Forum (APRSAF-17)

~ Main Theme / The role of space technology and industry in addressing climate change ~

23-26 November 2010

The Crown Conference Centre, Melbourne, Australia

<Day 1> 23 November, Tuesday

[Registration : 08:00-9:00]

[Working Group Session : 9:00-17:00]

	Start 09: 00 End 17:00	Start 09: 00 End 17:00	Start 09: 00 End 17:00	Start 09: 00 End 17:00
	A. Earth Observation W.G.	B. Communication Satellite Applications W.G.	C. Space Education & Awareness W.G.	D. Space Environment Utilization W.G.
09:00-11:00	[Co-chairs] Dr. Shinichi Sobue Associate Senior Engineer, Earth Observation Research Center, JAXA Dr. Chris Pigram Chief Executive Officer Geoscience Australia	[Co-chairs] Mr. Hiroki Kohhata Senior Engineer, Satellite Applications and Promotion Center, JAXA Prof. Andrew Parfitt Pro Vice Chancellor and Vice President, Division of Information Technology, Engineering and the Environment, University of South Australia (UniSA)	[Co-chairs] Dr. Takashi Kubota Professor, Department of Spacecraft Engineering, JAXA Prof. Graham Durant Director of Questacon	[Co-Chairs] Mr. Shigeaki Kamigaichi Deputy Director, Space Environment Utilization Center, JAXA Dr. Miriam Baltuck Director Canberra Deep Space Communication Complex (CDSCC)
11:00-11:15	Coffee Break			
11:15-12:30	A. Earth Observation W.G.	B. Communication Satellite Applications W.G.	C. Space Education & Awareness W.G.	D. Space Environment Utilization W.G.
12:30-13:30	Lunch : hosted by DIISR			
13:30-15:00	A. Earth Observation W.G.	B. Communication Satellite Applications W.G.	C. Space Education & Awareness W.G.	D. Space Environment Utilization W.G.
15:00-15:15	Coffee Break			
15:15-17:00	A. Earth Observation W.G.	B. Communication Satellite Applications W.G.	C. Space Education & Awareness W.G.	D. Space Environment Utilization W.G.

Tentative Program

The 17th Session of the Asia-Pacific Regional Space Agency Forum (APRSAF-17)

~ Main Theme / The role of space technology and industry in addressing climate change ~

23-26 November 2010

The Crown Conference Centre, Melbourne, Australia

<Day 2> 24 November, Wednesday

[Registration : 08:30-9:00]

[Working Group Session : 09:00 - 17:00]

	Start 09: 00 End 17:00	Start 09: 00 End 17:00	Start 09: 00 End 17:00	Start 09: 00 End 17:00
	A. Earth Observation W.G.	B. Communication Satellite Applications W.G.	C. Space Education & Awareness W.G.	D. Space Environment Utilization W.G.
09:00-10:45	[Co-chairs] Dr. Shinichi Sobue Associate Senior Engineer, Earth Observation Research Center, JAXA Dr. Chris Pigram Chief Executive Officer Geoscience Australia	[Co-chairs] Mr. Hiroki Kohhata Senior Engineer, Satellite Applications and Promotion Center, JAXA Prof. Andrew Parfitt Pro Vice Chancellor and Vice President, Division of Information Technology, Engineering and the Environment, University of South Australia (UniSA)	[Co-chairs] Dr. Takashi Kubota Professor, Department of Spacecraft Engineering, JAXA Prof. Graham Durant Director of Questacon	[Co-Chairs] Mr. Shigeki Kamigaichi Deputy Director, Space Environment Utilization Center, JAXA Dr. Miriam Baltuck Director Canberra Deep Space Communication Complex (CDSCC)
10:45-11:00	Coffee Break			
11:00-12:30	A. Earth Observation W.G.	B. Communication Satellite Applications W.G.	C. Space Education & Awareness W.G.	D. Space Environment Utilization W.G.
12:30-13:30	Lunch : hosted by DIISR			
13:30-14:30	A. Earth Observation W.G.	B. Communication Satellite Applications W.G.	C. Space Education & Awareness W.G.	D. Space Environment Utilization W.G.
14:30-14:45	Coffee Break			
14:45-17:00	A. Earth Observation W.G.	B. Communication Satellite Applications W.G.	C. Space Education & Awareness W.G.	D. Space Environment Utilization W.G.
18:00	Reception			

Tentative Program

The 17th Session of the Asia-Pacific Regional Space Agency Forum (APRSAF-17)

~ *Main Theme / The role of space technology and industry in addressing climate change* ~

23-26 November 2010

The Crown Conference Centre, Melbourne, Australia

<Day 3> 25 November, Thursday

General Co-Chairs

Australia : Dr. Michael Green, General Manager, Innovation and Space Branch, Manufacturing Division, DIISR

Japan : Dr. Tetsuhiko Ikegami, Chairman, Space Activities Commission (SAC) / MEXT

[Registration : 08:00-08:45]

[Plenary Session : 09:00-12:00]

Time	Title	Speaker
09:00-09:15	Opening remarks	AUSTRALIA
		JAPAN
09:15-09:30	Photo Session	
09:30-09:45	Key note addresses by co-host organizations	AUSTRALIA
09:45-10:00		JAPAN
10:00-10:15	Summary of APRSAF-16	THAILAND
10:15-10:30	Coffee Break	
10:30-10:45	Country report	
10:45-11:00	Country report	
11:00-11:15	Country report	
11:15-11:30	Country report	
11:30-11:45	Country report	
11:45-12:00	Country report	
12:00-13:00	Lunch : hosted by DIISR	

Tentative Program
The 17th Session of the Asia-Pacific Regional Space Agency Forum
(APRSAF-17)

~ Main Theme / The role of space technology and industry in addressing climate change ~

23-26 November 2010

The Crown Conference Centre, Melbourne, Australia

<Day 3> 25 November, Thursday

[Plenary Session : 13:00-17:30]

Time	Title	Speaker
13:00-13:15	Country report	
13:15-13:30	Country report	
13:30-13:45	Country report	
13:45-14:45	Special Session (TBD)	
14:45-15:00	Coffee Break	
15:00-17:30	Report sessions	15:00-16:00 Sentinel Asia: Disaster Management Support System in the Asia-Pacific Region
		16:00-16:45 STAR: Satellite Technology for the Asia-Pacific Region
		16:45-17:30 SAFE: Space Applications For Environment
19:00	Reception	

Tentative Program
The 17th Session of the Asia-Pacific Regional Space Agency Forum
(APRSAF-17)

~ Main Theme / The role of space technology and industry in addressing climate change ~

23-26 November 2010

The Crown Conference Centre, Melbourne, Australia

<Day 4> 26 November, Friday

[Closing Plenary : 09:00-13:50]

Time	Title	Speaker
09:00-09:15	Remarks	
09:15-09:45	Speeches by international organizations	
9:45-10:45	Japanese Space Education and Capacity Building Programs (TBD)	
10:45-11:00	Coffee Break	
11:00-11:15	Summary reports of WGs	Earth Observation WG
11:15-11:40		Communication Satellite Applications WG (including Summary Report of GNSS Workshop (TBD))
11:40-11:55		Space Education & Awareness WG
11:55-12:10		Space Environment Utilization WG
12:10-13:00	Lunch : hosted by DIISR	
13:00-13:30	Adoption of Recommendations of APRSAF-17	
13:30-13:40	Announcement of APRSAF-18	
13:40-13:50	Closing remarks	AUSTRALIA
		JAPAN
14:00-17:00	Technical Tour (The Bureau of Meteorology (BOM))	