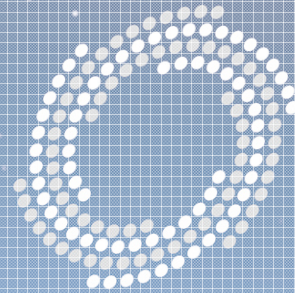


49th COPUOS-STSC
Vienna, Austria



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Summary of APRSAF-18

*" A regional collaboration for tomorrow's
environment "*

6 February 2012

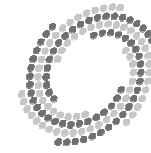
Yasushi Horikawa

Technical Counselor

Japan Aerospace Exploration Agency (JAXA)

APRSAF: Background

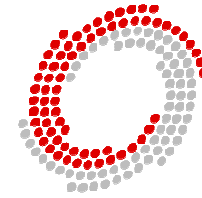
Asia-Pacific Regional Space Agency Forum



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- **Establishment:** 1993, after the Asia-Pacific International Space Year Conference (APIC) in 1992
- **Goal:** Enhance the development of space programs in the Asia-Pacific region and promote regional cooperation in the field of space technology and its applications
- **Participation:** Space agencies, related governments, regional and international organizations, institutions responsible for applying space technology
- **Organizers:** MEXT, JAXA and co-host organizations
- **Past co-organizers:** Government entities of Mongolia, Malaysia, The Republic of Korea, Thailand, Australia, Indonesia, India, Vietnam and Singapore

APRSAF-18: in Singapore



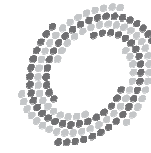
18TH
APRSAF

ASIA-PACIFIC REGIONAL
SPACE AGENCY FORUM
SINGAPORE

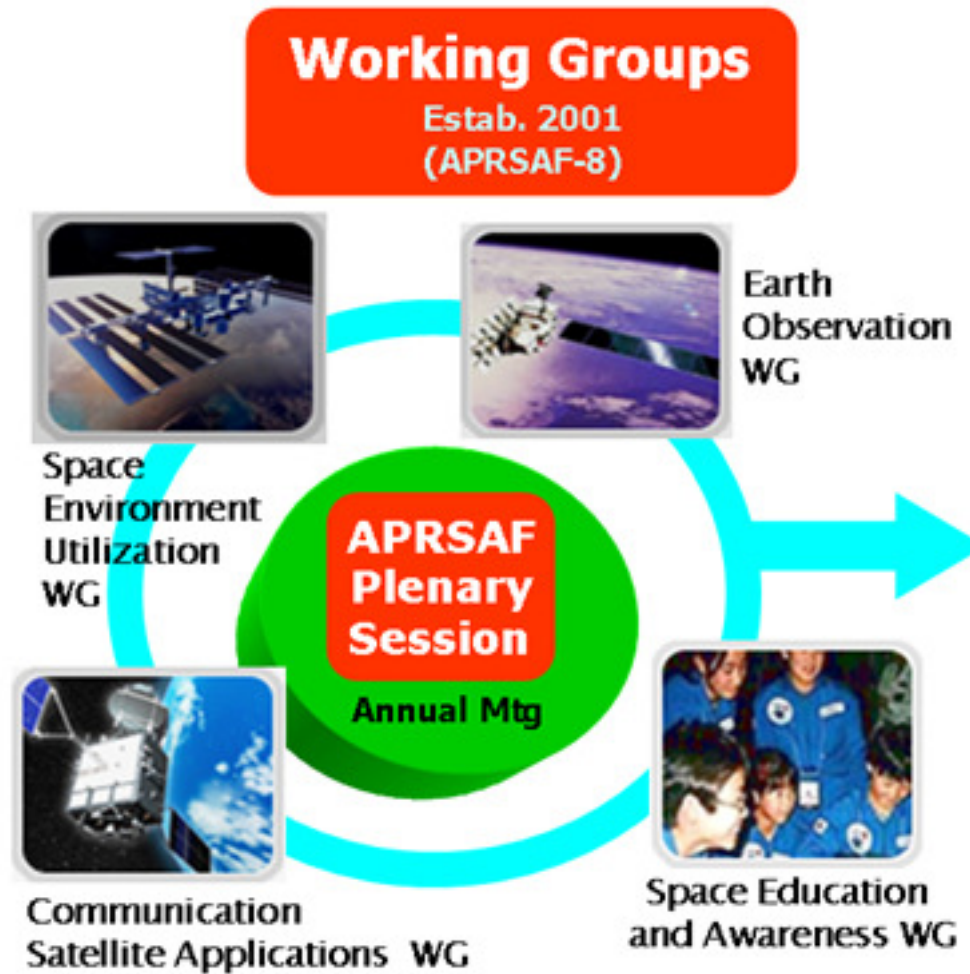
- **Date:** 6-9 December, 2011
- **Theme:** A regional collaboration for tomorrow's environment
- **Venue:** Marina Mandarin Singapore Hotel, Singapore
- **Co-organizers:**
 - ◆ Singapore Space and Technology Association (SSTA)
 - ◆ Centre for Remote Imaging, Sensing and Processing, National University of Singapore (CRISP)
 - ◆ Ministry of Education, Culture, Sports, Science and Technology of Japan (MEXT)
 - ◆ Japan Aerospace Exploration Agency (JAXA)
- **Support:**
 - ◆ Science Centre Singapore (SCS)
 - ◆ Strategic Headquarters for Space Policy
 - ◆ Ministry of Foreign Affairs of Japan (MOFA)
- **1st & 2nd Day:** 4 working groups meetings
- **3rd & 4th Day:** Plenary sessions including country reports and international organization speeches
- **Side Events:** SAFE Workshop, Poster Contest, Water Rocket Event, Astronaut Event, Industrial Exhibition
- **Participant:** Approximately 280 participants from 28 countries and region and 11 international organizations; e.g. UNOOSA, ADB, APSCO, etc



APRSAF-18: Structure



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Initiatives

- 

"Sentinel Asia"
Disaster Management Support System
Estab. 2005
(APRSAF-12)
- 

"STAR"
Satellite Technology For the Asia-Pacific Region
Estab. 2007
(APRSAF-14)
- 

"SAFE"
Space Applications for Environment
Estab. 2008
(APRSAF-15)
- 

New initiative:
Climate R³
Estab. 2011
(APRSAF-18)

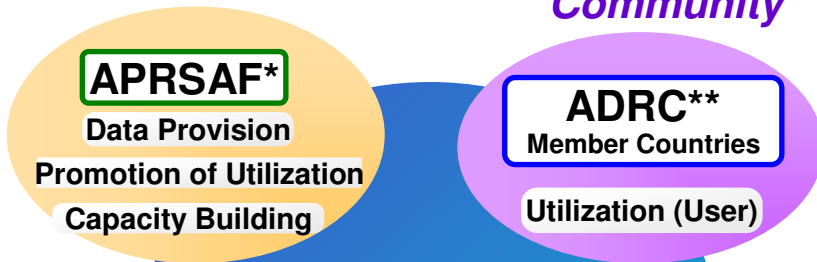
Disaster management: Sentinel Asia



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= Structure =

Space Community *Disaster Management Community*



* Asian-Pacific Regional Space Agency Forum

Sentinel Asia
Joint Project Team (JPT)
consisting of 78 organizations
as of November 2011

** Asian Disaster Reduction Center

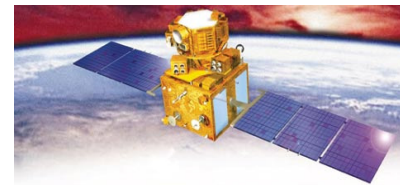
UN / ESCAP UN / OOSA
ASEAN AIT etc.

International Cooperation

International Community

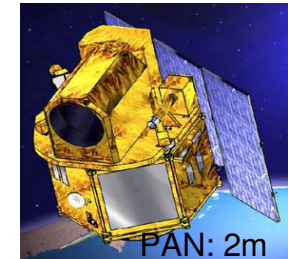
= Data Provider Node =

ISRO



LISS-4: 5.8m Pan
LISS-3: 23.5m Multi
AWiFS: 56m Multi

GISTDA



PAN: 2m
Multi: 15m

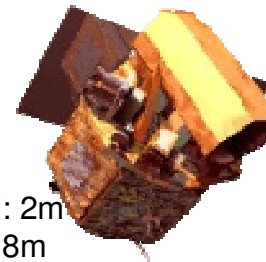
JAXA

Sentinel Asia Constellation



ALOS
PRISM: 2.5m Pan
AVNIR-1: 10m Multi
PALSAR: 10-100m L-Band

NARL



PAN: 2m
MS: 8m

KARI

KOMPSAT-1



EOC: 6.6m
OSMI: 1km

FORMOSAT-2

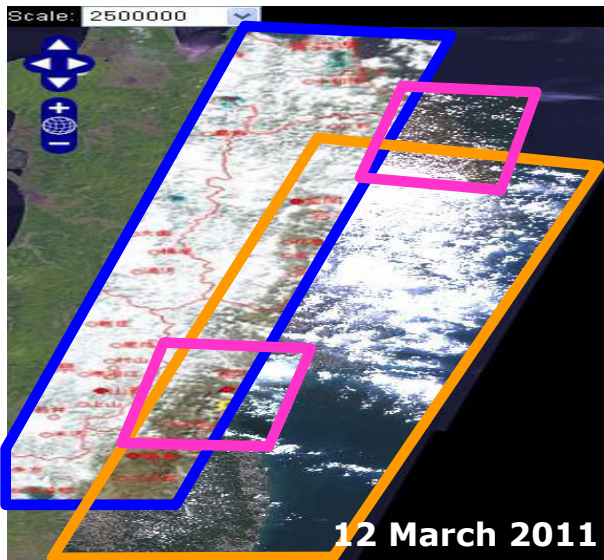
Disaster management: Sentinel Asia



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=Great East Japan Earthquake=



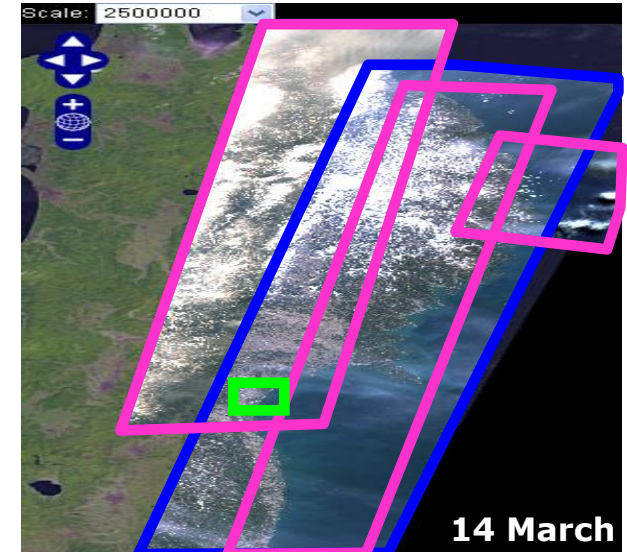
ALOS



THEOS

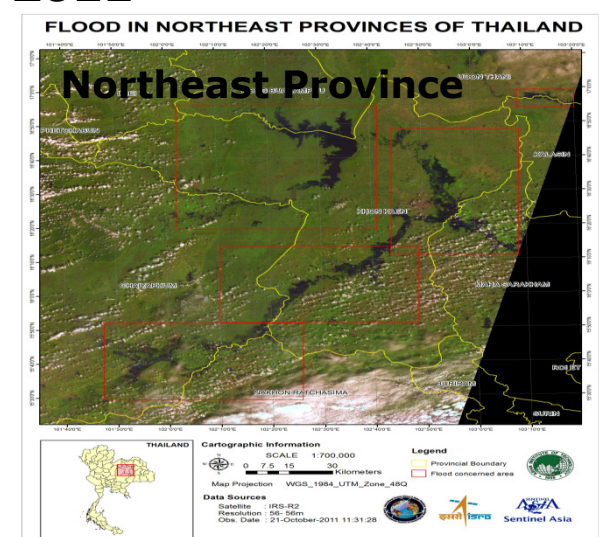
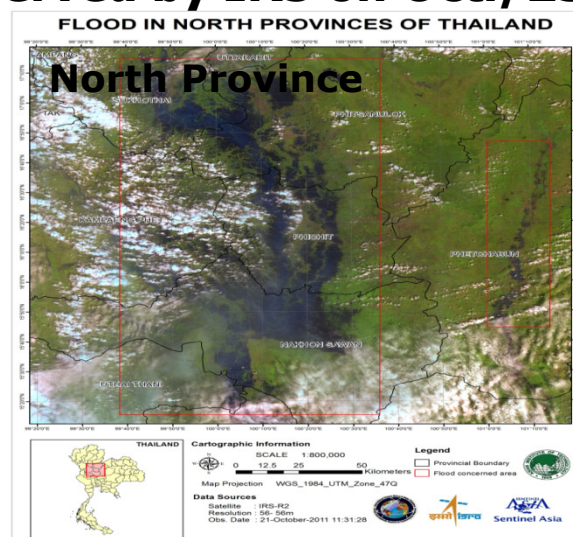
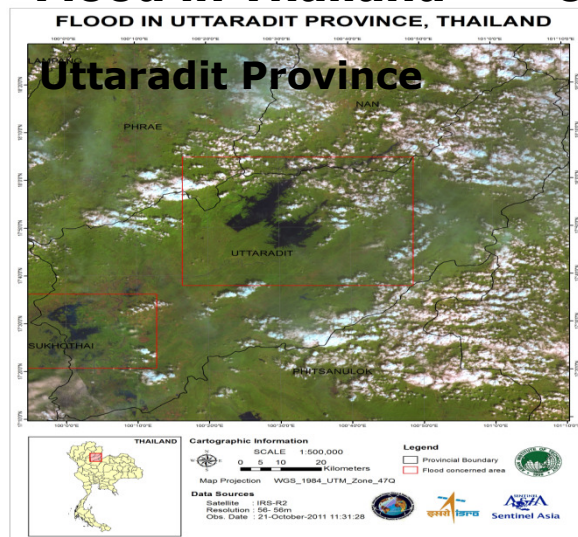
FORMOSAT-2

CARTOSAT-2



14 March

= Flood in Thailand = observed by IRS on Oct./23/2011



SAFE:

Space Applications For Environment

- **SAFE Background**

- Established in 2008 (APRSAF-15)

- **SAFE Objectives**

- Contribute to the GEOSS in nine “Social Benefit Areas”



New initiative: Climate R³



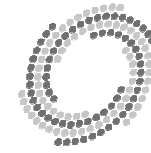
- **Climate R³ Background**

- Climate R³ was proposed and adopted as an ongoing initiative at APRSAF-18

- **Climate R³ Objectives**

- Identify measures to enhance regional capacity and leverage global investment in support of informed regional climate policies
- Broker connections between space data suppliers, regional climate information users and application specialists
- Stimulate data flows and build capacity

New initiative: PACK-I



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■ PACK-I Background

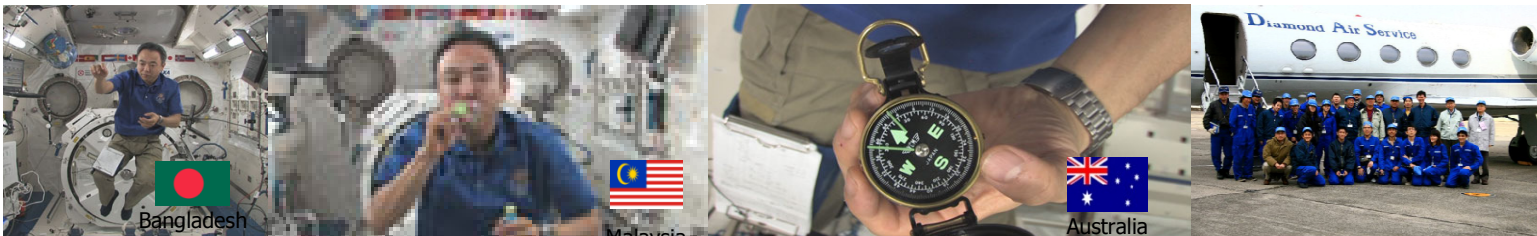
- JAXA proposed to launch a new initiative to promote ISS utilization
- “Promotion of Asian Cooperation on Kibo/ISS Initiative (PACK-I)” was proposed as the initiative’s name

■ Purpose of PACK-I

- To share the significance and value which Kibo/ISS will bring to human beings and to produce new cooperation projects on Kibo/ISS utilization
- To promote the production of new cooperation on the Kibo/ISS utilization more systematically with active participations

■ Examples of activities expected in PACK-I

- Outreach activities related to ISS projects
- Capacity building for utilization of space environment
- Cultivation of new orbital experiment in Kibo among Asia-Pacific countries.



Space Seeds for
Asian Future

APRSAF-18 Special event:

Asians in Space: Achievements of Human Spaceflight in Asian Countries

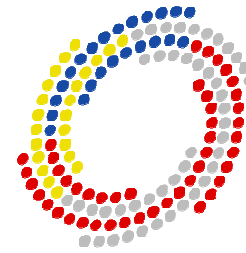


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- **Date:** 8 December , 2011, 18:00-20:00
- **Venue:** Science Centre Singapore (SCS), MAXWELL Auditorium
- **Invited Astronauts for the roundtable discussion:**
 - ◆ Dr. Dumitru-Dorin Prunariu (Moderator, Romania/President for ASE, Chairman for UNCOPUOS)
 - ◆ Mr. Soich Noguchi (Japan)
 - ◆ Dr. Talgat Amangeldiyevich Mussabayev (Kazakhstan)
 - ◆ Dr. Sheikh Muszaphar Shukor (Malaysia)
- **This special event aimed to:**
 - ◆ Increase public awareness of the achievements of space explorers
 - ◆ Establish a closer link between the network of space explorers and the APRSAF community
 - ◆ Identify the ways and means to maximize the positive impact of space explorers in Asia on the advancement of the society

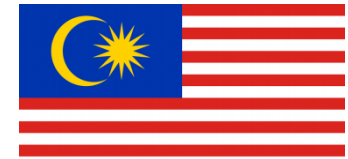


Next: APRSAF-19



19TH
APRSAF

ASIA-PACIFIC REGIONAL
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MALAYSIA



- **Date:** December 11-14, 2012
- **Theme:** Enriching quality life through innovative space program (TBD)
- **Venue:** Kuala Lumpur, Malaysia
- **Co-organizers:**
 - National Space Center (ANGKASA)
 - Sea to Space Division (S2S)
 - Ministry of Science, Technology and Innovation (MOSTI)
 - Ministry of Education, Culture, Sports, Science and Technology of Japan (MEXT)
 - Japan Aerospace Exploration Agency (JAXA)



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Thank you for your attention.

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