

APRSAF

ASIA-PACIFIC REGIONAL
SPACE AGENCY FORUM

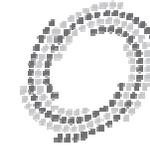
Japanese International Cooperation

Takaaki Iwasa

Director, Office for Space Utilization Promotion, MEXT

APRSAF: Background

Asia-Pacific Regional Space Agency Forum

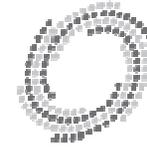


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- **Establishment:** 1993, following the Asia-Pacific International Space Year Conference (APIC) in 1992
- **Goal:** To promote and expand space activities and their applications for socio-economic development in Asia and the Pacific
- **Participation:** Space agencies, governmental bodies, international organizations, universities and research institutions, as well as private entities involved in space activities
- **Organizers:** MEXT, JAXA and local host organizations
- **Host countries to date:** Australia, India, Indonesia, Malaysia, Mongolia, Republic of Korea, Singapore, Thailand and Vietnam

APRSAF: Characteristics

Asia-Pacific Regional Space Agency Forum



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Open and flexible forum

- In view of the diversity of needs in the Asia-Pacific region for space utilization and developments, APRSAF provides a flexible framework rather than legally-binding agreements.
- The open framework of APRSAF allows various entities to participate.

Voluntary participation

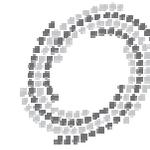
- Participation in and contributions to APRSAF activities are on a voluntary basis.

Action-oriented approach

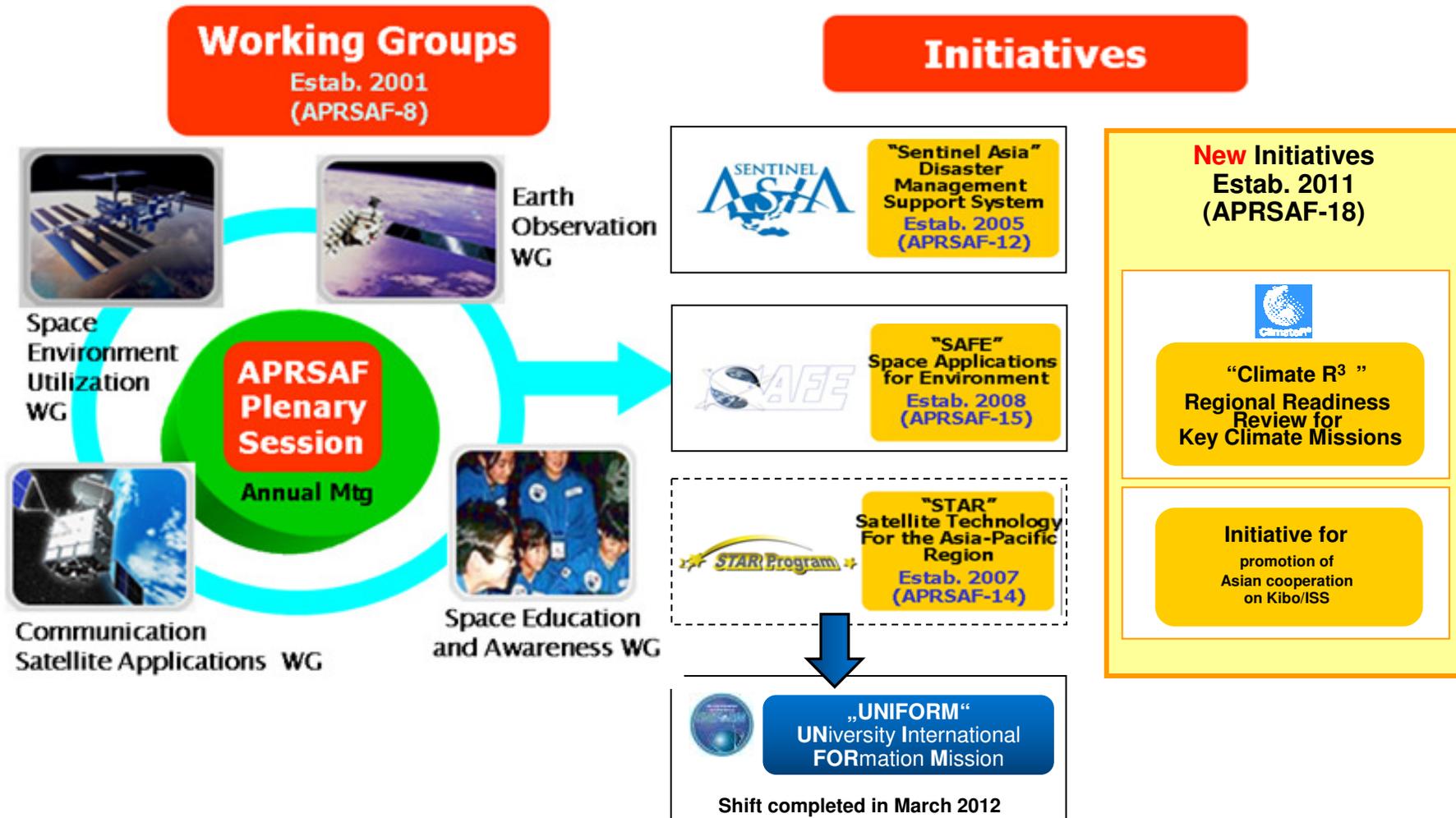
- APRSAF takes concrete actions through its multilateral projects that address issues of common interest in the Asia-Pacific regions.

APRSAF: Structure

Asia-Pacific Regional Space Agency Forum



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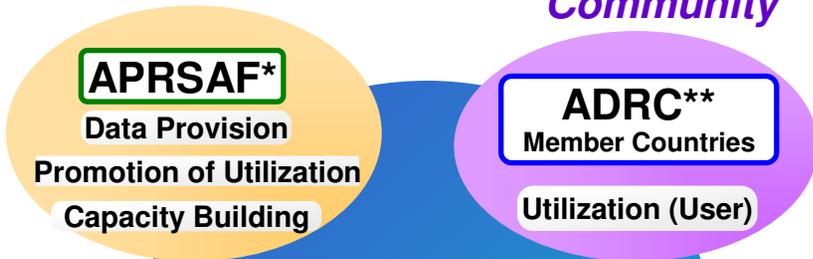
Disaster management: Sentinel Asia



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= Structure =

Space Community **Disaster Management Community**



* Asian-Pacific Regional Space Agency Forum

** Asian Disaster Reduction Center

Sentinel Asia
Joint Project Team (JPT)
consisting of 84 organizations
as of May 2012

UN / ESCAP UN / OOSA
ASEAN AIT etc.

International Cooperation

International Community

= Data Provider Node =

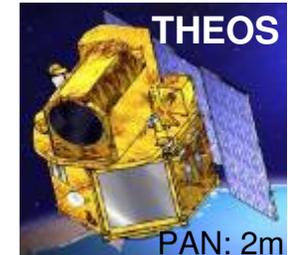
ISRO



CARTOSAT-2

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

GISTDA



PAN: 2m
Multi: 15m

JAXA



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

NARL



PAN: 2m
MS: 8m

FORMOSAT-2

KARI



EOC: 6.6m
OSMI: 1km

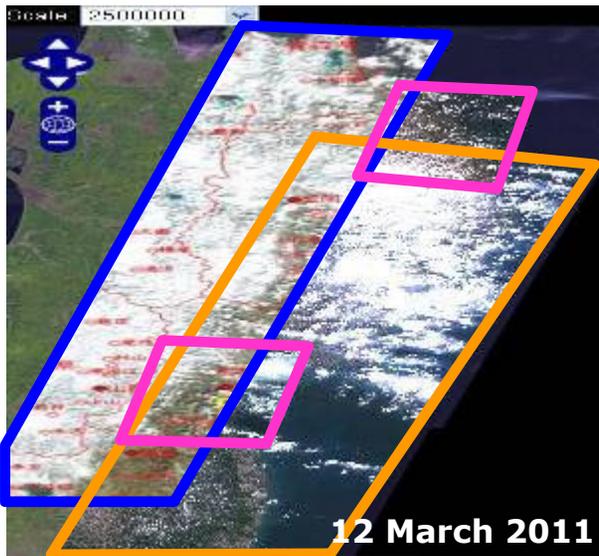
Sentinel Asia Constellation

Disaster management: Sentinel Asia



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=Great East Japan Earthquake=



12 March 2011

ALOS



13 March

THEOS

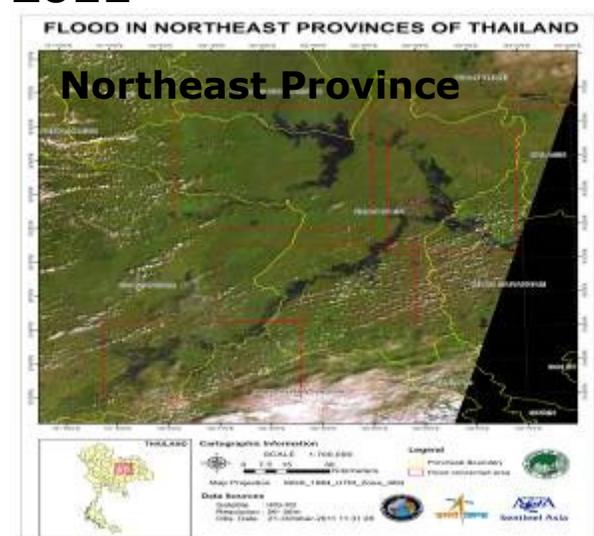
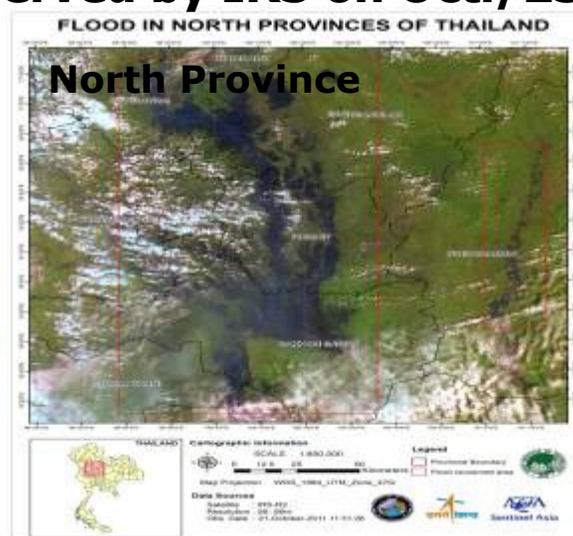
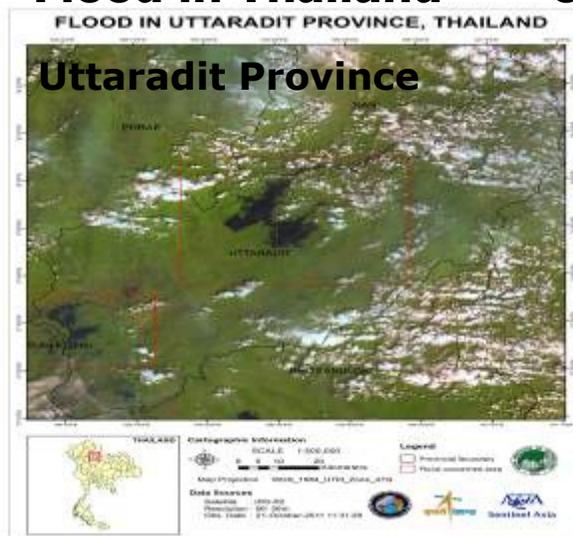
FORMOSAT-2

CARTOSAT-2



14 March

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



SAFE:

Space Applications For Environment

■ Background

- Established in 2008 (APRSAF-15)



■ Objectives

- Encourage environmental monitoring for climate change mitigation and adaptation studies
- Contribute to the GEOSS in nine “Social Benefit Areas”

New initiative: Climate R³



■ Background

- Proposed at APRSAF-17 in 2010 and adopted at APRSAF-18

■ Objectives

- Determine the ability of APRSAF countries and institutions to benefit from the data and information to be provided by climate-related satellite missions in the coming years
- Raise awareness of the benefits of these missions and their expected in-country applications for APRSAF governments and societies

New initiative:

Asian cooperation on Kibo/ISS



■ Background

- Proposed and launched at APRSAF-18

■ Objectives

- To share the value brought by Kibo/ISS to human beings
- To promote new cooperation on the Kibo/ISS utilization in a more systematic manner while encouraging active participation

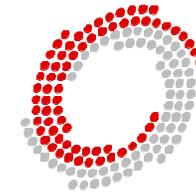
■ Activities expected

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



Space Seeds for
Asian Future

APRSAF-18: in Singapore



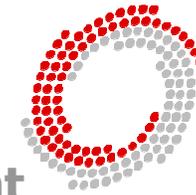
18TH
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SINGAPORE

- **Date and venue:** 6-9 December 2011, Singapore
- **Theme:** “A regional collaboration for tomorrow’s environment”
- **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)
- **Supporting organizations:**
 - ◆ Science Centre Singapore (SCS)
 - ◆ Strategic Headquarters for Space Policy
 - ◆ Ministry of Foreign Affairs of Japan
- **Programme:**
 - ◆ 1st & 2nd days: working group sessions (4 working groups)
 - ◆ 3rd & 4th days: plenary session (country reports, presentation by int’l org’s, etc.)
- **Side Events:** SAFE Workshop, Poster Contest, Water Rocket Event, Astronaut Event, Industrial Exhibition
- **Participants:** Approx. 280 participants from 28 countries and regions and 11 int’l org’s, e.g. UNCOPUOS, OOSA, ESCAP, ASEAN-SCOSA, APSCO, ADB, IAF, etc.



APRSAF-18 Special event:

Asians in Space: Achievements of Human Spaceflight in Asian Countries

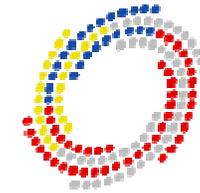


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SINGAPORE

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



Next: APRSAF-19



19TH
APRSAF

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MALAYSIA

- **Date and venue: 11-14 December 2012, Kuala Lumpur**
- **Theme: Enriching quality life through innovative space programs**

- **Co-organizers:**

- <Malaysia> **National Space Agency (ANGKASA),
Ministry of Science, Technology and
Innovation (MOSTI)**

- <Japan> **Ministry of Education, Culture, Sports,
Science and Technology of Japan (MEXT),
Japan Aerospace Exploration Agency (JAXA)**



- **Side Events:**

- **8-9 December: Water Rocket Event**
 - **9-10 December: GNSS Workshop**
 - **10 December: SAFE Workshop**
 - **11-14 December: Poster Contest**





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Thank you for your attention.

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