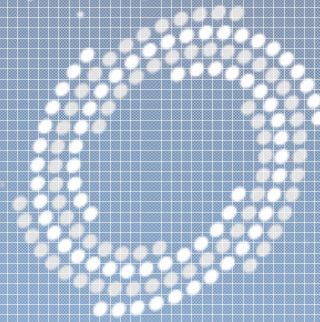


56th Session of COPUOS
Vienna, Austria



APRSAF

ASIA-PACIFIC REGIONAL
SPACE AGENCY FORUM

20 Years of History and the Future of the Asia-Pacific Regional Space Agency Forum (APRSAF)

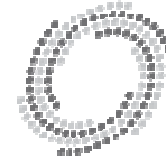
Akiko Suzuki

Manager, International Relations and Research Department,
Japan Aerospace Exploration Agency (JAXA)

Mohd Zamri Shah Mastor

Science Officer, Strategic and Relation Center,
National Space Agency of Malaysia (ANGKASA)

What is APRSAF?



APRSAF
ASIA-PACIFIC REGIONAL
SPACE AGENCY FORUM

■ APRSAF - Regional Space Cooperation Framework:

1. Largest space community in the Asia-Pacific region
2. A regional forum for space agencies, involving organizations using space technologies
3. Work on contributing socio-economic benefits in the region

■ Objectives: To promote and expand space activities and their applications for socio-economic development in Asia and the Pacific.

■ Participants: Space agencies, governmental bodies, international organizations, universities, research institutions, private entities involved in space activities.

■ Organizers: Japan (MEXT, JAXA) and local host organizations.

20th Anniversary of APRSAF



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1st APRSAF (1993)
■ **Approx. 60** Participants
■ **15** Countries & Organizations

1993

1992 ISY

19th APRSAF (2012)

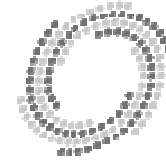
■ **380** Participants

■ **47** Countries & Organizations

2013



Establishment of APRSAF



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1992: International Space Year (ISY)

■ The United Nations and international space community validated the ISY in 1992.

■ In the Asia-Pacific region, two ISY related conferences were held:



- Pre Asia-Pacific ISY Conference in Tokyo in March
- Asia-Pacific ISY Conference (APIC) in Tokyo in November

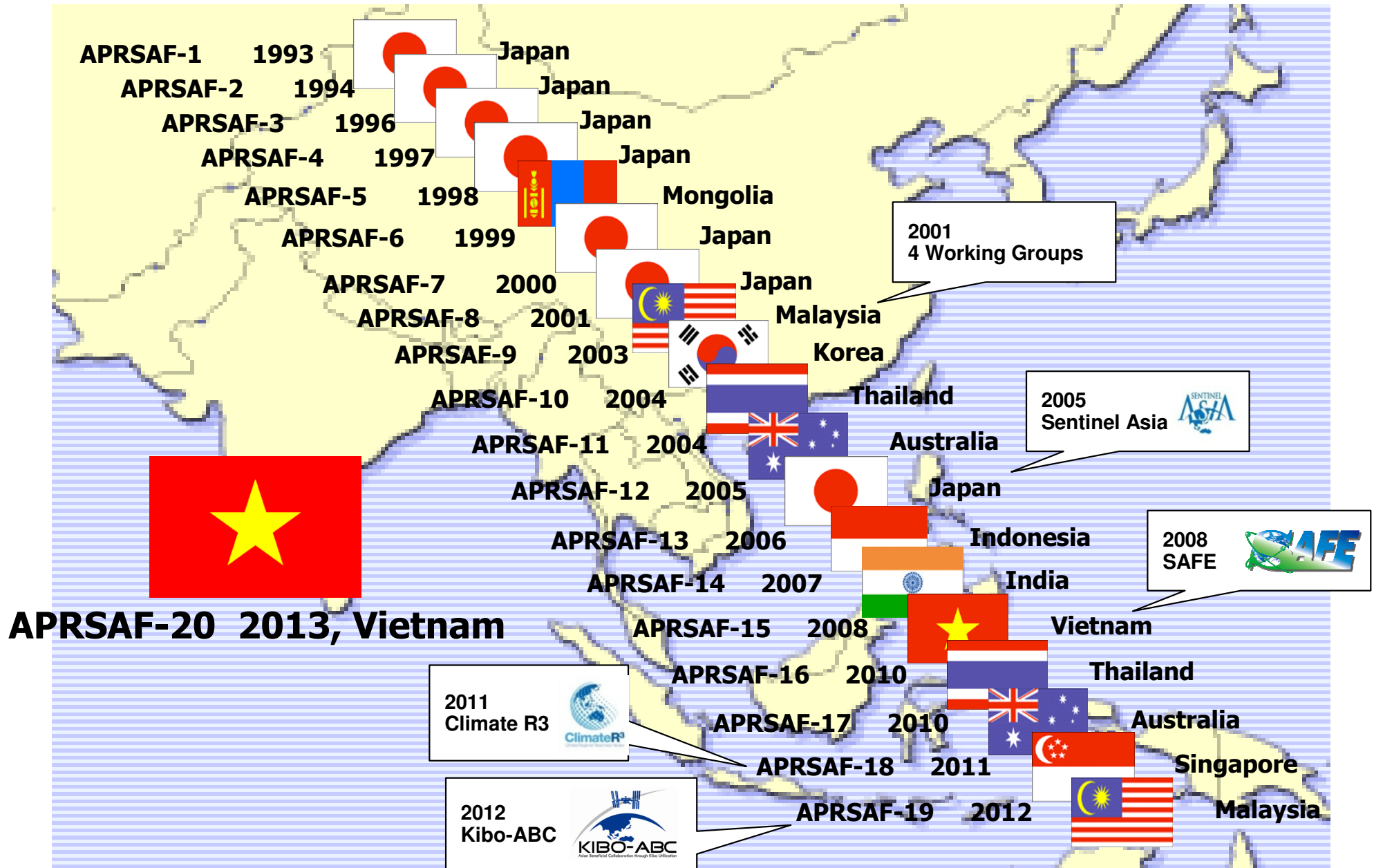


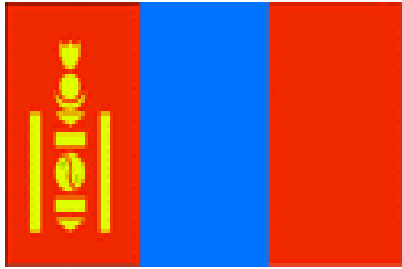
- Establishment of “Asia-Pacific Regional Space Agency Forum” was proposed at the closing ceremony of APIC.

1993: 1st APRSAF in Tokyo

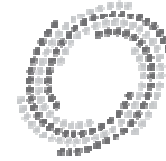
Regional Space Cooperation

Increasing local host countries and new projects derived from APRSAF framework





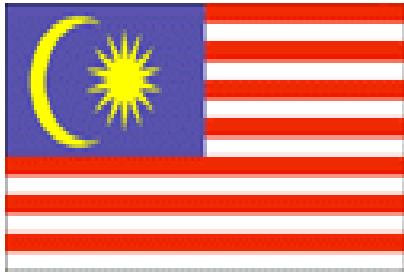
1998 APRSAF-5 Mongolia



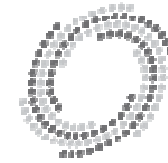
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First APRSAF held outside Japan



2001 APRSAF-8 Malaysia



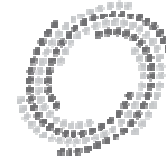
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*Theme: New Space Age in the Asia and Pacific Region
4 working groups established*



2003 APRSAF-9 Korea



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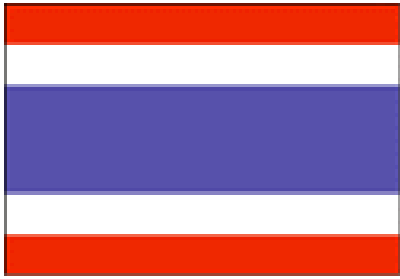
The 9th Asia-Pacific Regional Space Agency Forum

• Ministry of Science and Technology (Korea) • Ministry of Education, Culture, Sports, Science and Technology (Japan)
• Korea Aerospace Research Institute • National Space Development Agency of Japan • Institute of Space and Astronautical Sciences

Venue : March 25(Tue)-27(Thu), 2003 / KARI



*Theme: Beneficial Space Application for the Region
Recommended in order to reinforce secretariat function*



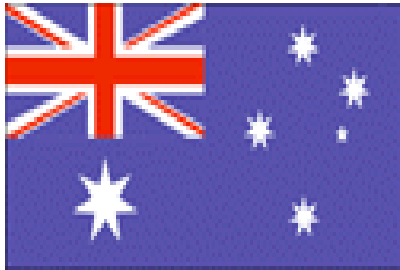
2004 APRSAF-10 Thailand



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*Theme: New Space Age in the Asia and Pacific Region
Discussed to promote cooperation on space application*



2004 APRSAF-11 Australia



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*Theme: Toward Expansion of the Space Community
Sentinel Asia initiative established*



2006 APRSAF-13 Indonesia



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*Theme: Work Together, Building a Secure and Prosperous Society
Recognized the need to make further efforts to enhance disaster
management by using space technologies*



2007 APRSAF-14

India



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Theme: Space for Human Empowerment
Successful completion of pilot project (step 1) of Sentinel Asia



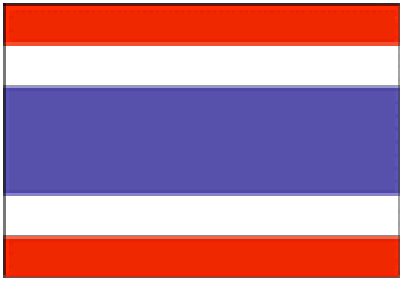
2008 APRSAF-15 Vietnam



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*Theme: Space for Sustainable Development
SAFE initiative established, over 200 participants*



2010 APRSAF-16 Thailand



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*Theme: Space Applications: Contributions towards Human Safety and Security
Over 300 participants*



2010 APRSAF-17

Australia



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*Theme: The role of space technology in addressing climate change
Panel Discussion on “The Role of Space Technology in Addressing Climate Change” and Special Session on “Regional Capacity Building Programs”*



2011 APRSAF-18

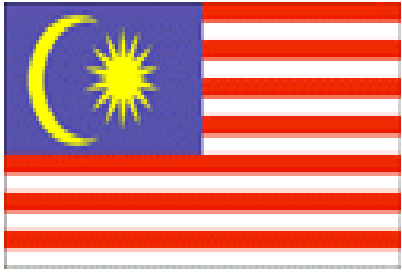
Singapore



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*Theme: A regional collaboration for tomorrow's environment
Climate R3 initiative established, special astronaut event "Asians in Space:
Achievements of Human Spaceflight in Asian Countries" held*



2012 APRSAF-19 Malaysia

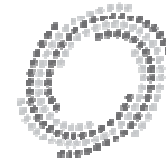


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*Theme: Enriching the quality of life through innovative space programs
Kibo-ABC initiative established*

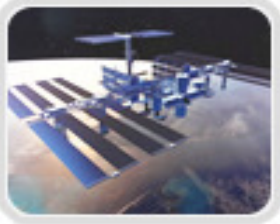
APRSAF Activities



APRSAF

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SPACE AGENCY FORUM

Working Groups



SEU WG



SEA WG



EO WG



CSA WG

Initiatives



**Disaster Monitoring
- Sentinel Asia -**



**Environment Monitoring
-SAFE (Space Application
for Environment) -**



**Regional Readiness Review
For Key Climate Missions
- CR³ -**



**Asian Beneficial Collaboration
through "Kibo" Utilization
- Kibo-ABC -**

Related Activities



**UNiversity International
Formation Mission
- UNIFORM -**

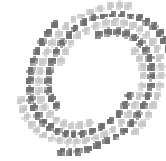


**Global Navigation
Satellite System
- GNSS -**

Exhibition

Side Events

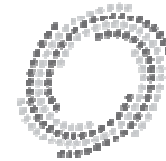
Successful Outcomes (1)



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1. **Increased the focus on using space technologies to solve socio-economic problems in the region.**
 - **Establishment of working groups:**
 - Earth Observation
 - Communication Satellite Applications
 - Space Education and Awareness
 - Space Environment Utilization
2. **Started several cooperative projects**
 - Disaster Management (Sentinel Asia)
 - Environment (SAFE)
 - Climate Change (Climate R3)
 - Utilization of the International Space Station (Kibo-ABC)
 - Education (Space education seminars, water rocket contest, etc.)

Successful Outcomes (2)

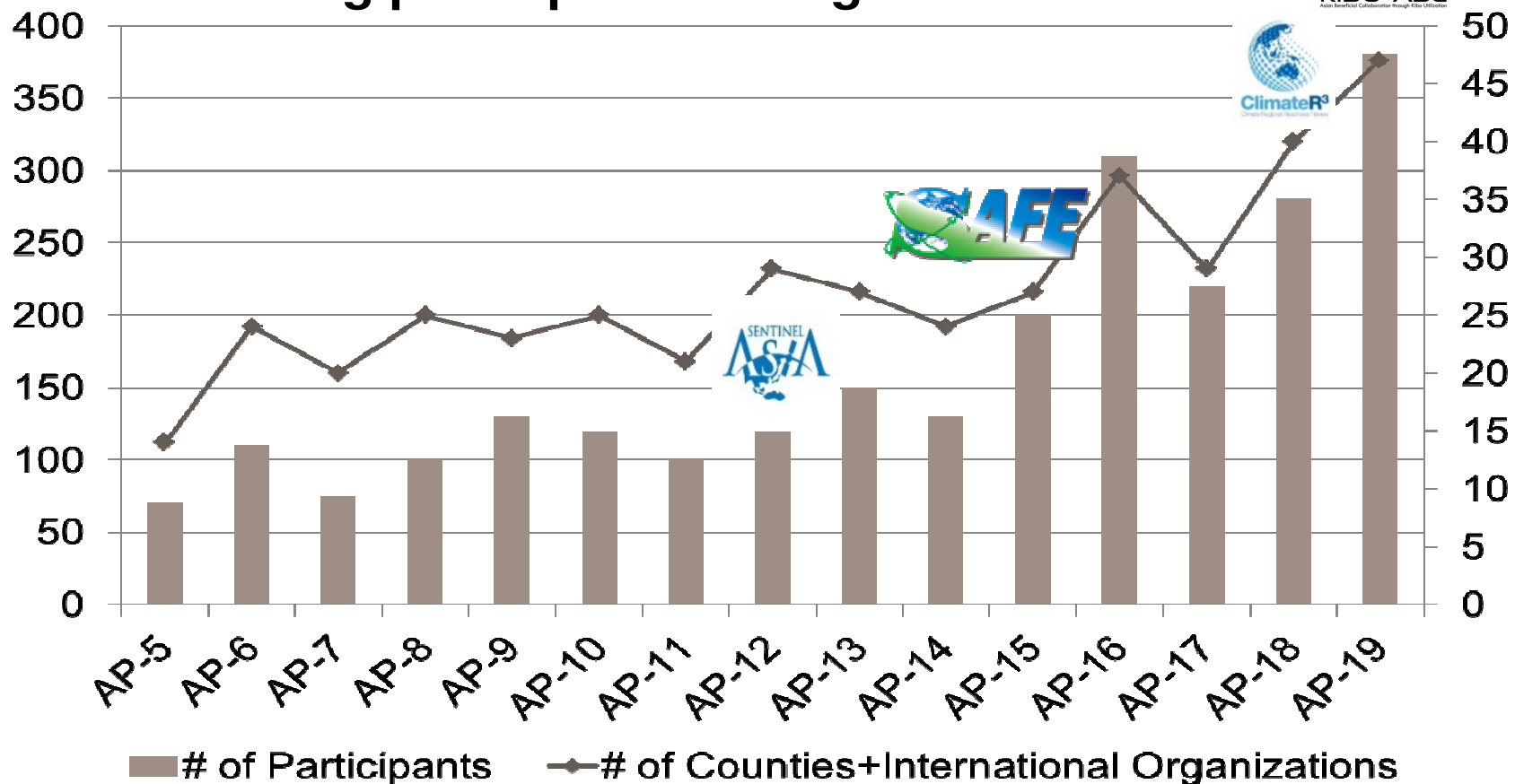


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3. Became the largest space community in the Asia-Pacific region

- Increasing the number of participants and participating countries/organizations

- Increasing participation of high-level officials



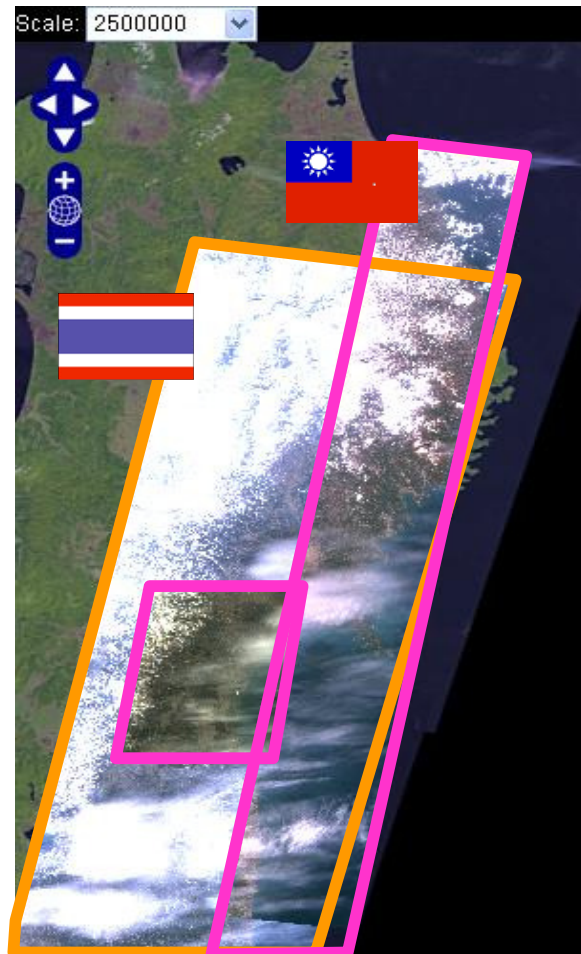
Successful Outcomes (3)



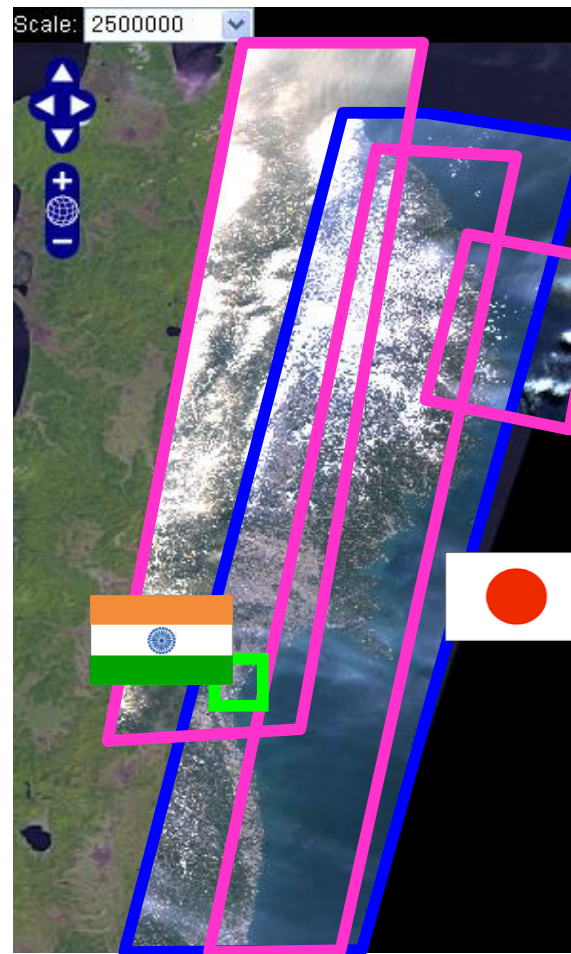
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- Disaster Monitoring via Sentinel Asia

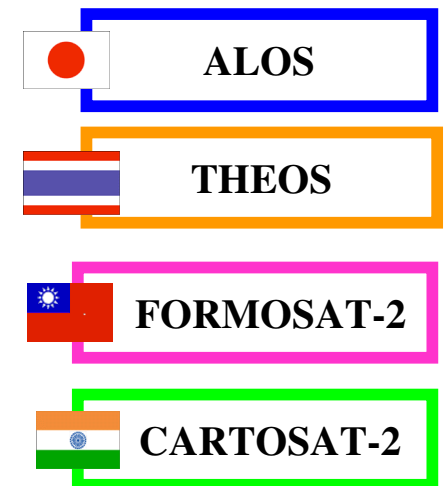
After the Great East Japan Earthquake in 2011, satellite data were provided through Sentinel Asia framework, which allows us to observe and monitor affected areas quickly.



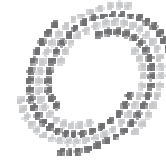
13 March



14 March



The Next 20 years and Beyond



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- **20 years after its inception, it is now time to review the past and to think about the next 20 years and beyond.**
- **Circumstances around the world and Asia-Pacific region have changed.**
- **How APRSAF should change looking ahead at the next 20 years and beyond?**
 - **Address issues of common interest and create new values in the Asia-Pacific region**
 - **Strengthen the space community to accomplish mission that cannot be accomplished by one country**
 - **The Executive Committee (ExCom) has been established in 2012 to change the operation system**
 - **Long-term vision of APRSAF will be discussed at the next APRSAF, to be held on 3-6 December, 2013, in Vietnam.**

APRSAF-19: in Malaysia



- Theme: Enriching the quality of life through innovative space programs
- Approximately 380 participants from 33 countries
 - 14 international organizations;
 - e.g. UNCOPUOS, UNESCAP, GEO, IAF, ADB, APSCO

APRSAF-20: in Vietnam



20TH
APRSAF
ASIA-PACIFIC REGIONAL
SPACE AGENCY FORUM
VIETNAM

■ Theme:

“Values from Space:
20 Years of Asia-Pacific Experiences”

■ Dates and venue:

3-6 December, 2013, Hanoi

■ Co-organizers:

VAST



MEXT



MINISTRY OF EDUCATION,
CULTURE, SPORTS,
SCIENCE AND TECHNOLOGY, JAPAN

JAXA



■ APRSAF Activities:

- SAFE Workshop
- Kibo-ABC Workshop
- Poster Contest
- Water Rocket Event
- Industrial Exhibition





APRSAF

ASIA-PACIFIC REGIONAL
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We are looking forward to your
participation!

www.aprsaf.org