



APRSAF-22 Report

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What is APRSAF?

- 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.



22nd session of APRSAF

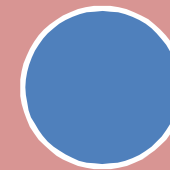


1st APRSAF (1993)

- **Approx. 60** Participants
- **15** Countries & Organizations

1993

1992 ISY



2015

22nd APRSAF (2015)

■ **423** Participants

■ **28** Countries &

10 Organizations





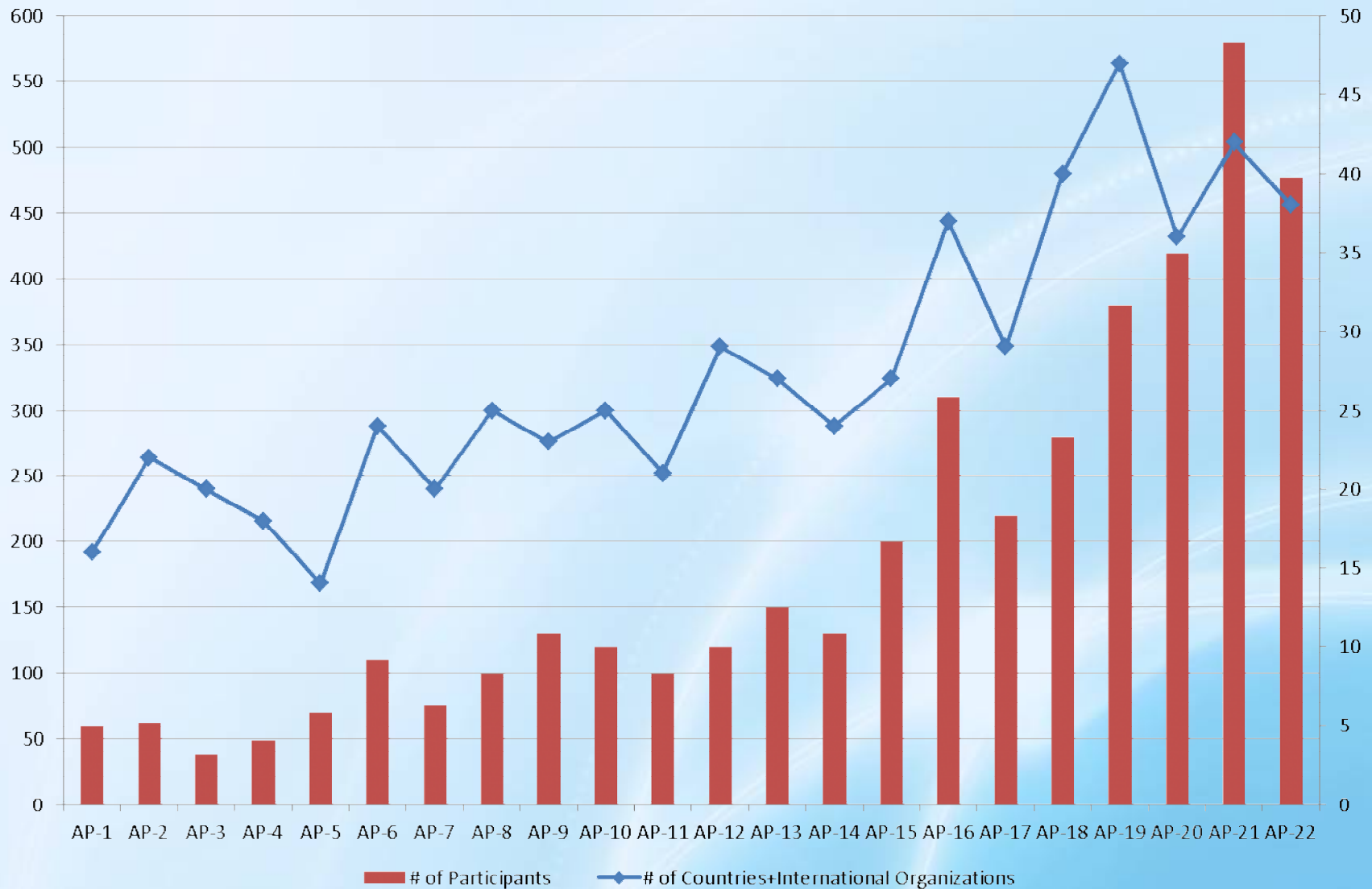
History of APRSAF



<https://maps.google.com/>



Number of Participants, Country&Organization

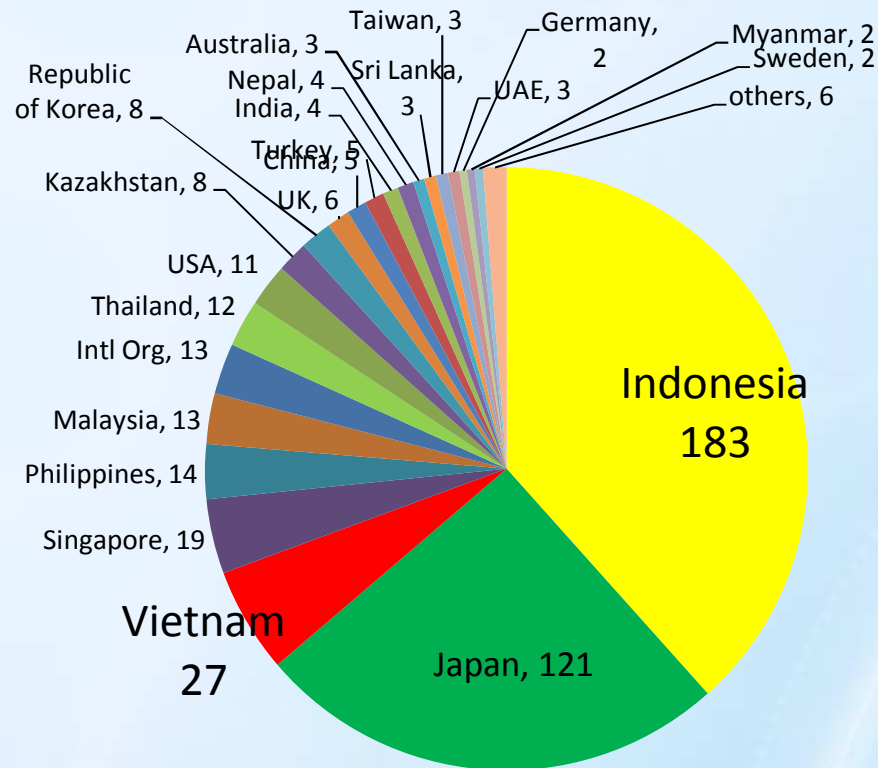




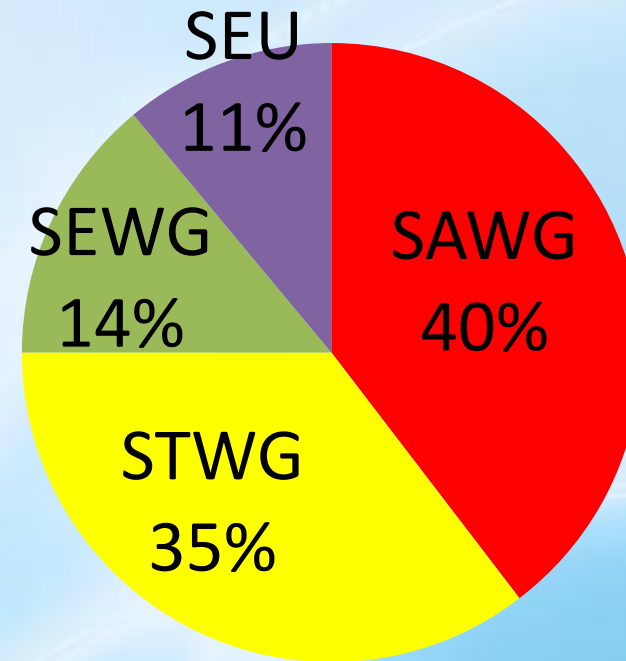
APRSAF-22 (2015, Bali)

Working Group : SpaceApp > SpaceTech > SpaceEdu > SpaceEnvUtil

Participants are much interested in SpaceTech Working Group. ---- Micro&CubeSat, GNSS, AIS, SE



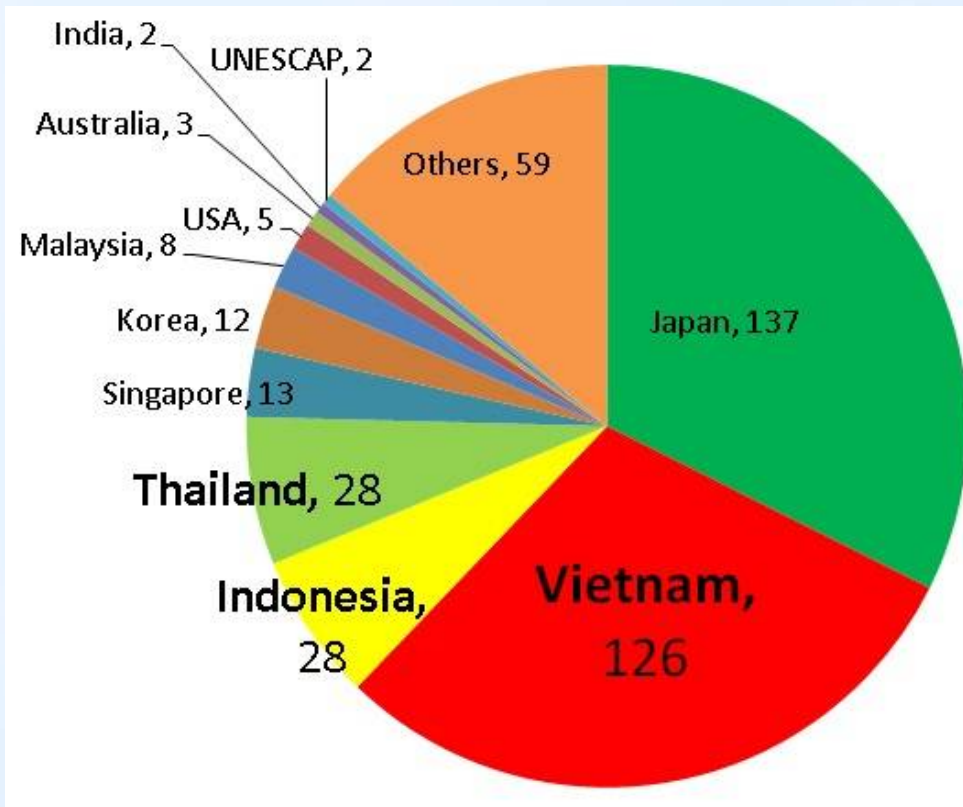
Number of participants



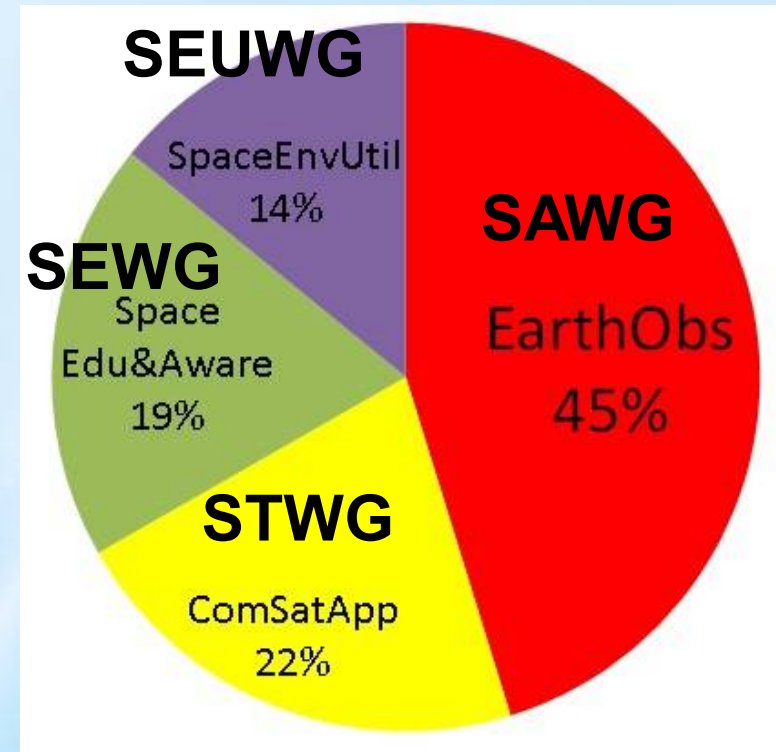
Working Group participants



APRSAF-20 (2013, Hanoi)



Number of participants



Working Group participants



APRSAF-22 plenary session

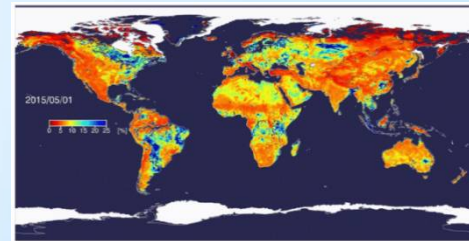
Keynote speech by Prof. Toshio Koike, The University of Tokyo, JAPAN

"Satellite Applications for Reducing Flood and Drought Risk in the Asia-Pacific Region

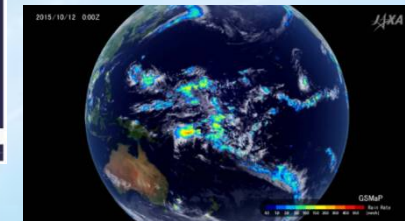
-Toward Achieving Sustainable Development, Disaster Risk Reduction and Climate Change Adaptation-"

***Reports from 13 countries and
5 Int'l organizations & Other regions***

Presentation materials are available on
<http://www.aprsaf.org/>



Drought Warning



GSMaP

Special Session-1

"Space and Maritime Applications" featured by host organizations

Special Session-2

"Synergies in Space "

"Sentinel Asia" - Disaster Management Support System

"SAFE" - Space Applications For Environment



Special Session-3

"Regional Cooperation in Space Exploration"

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

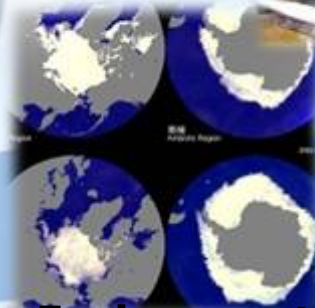


Toward next decade

APRSAF started in 1993 to enhance Space activity in the Asia-Pacific Region.



Accident



Environment



Coast



Economic growth



Health



Better life



Forest



Disaster



Toward next decade

APRSAF-1 (1993) to APRSAF-11

Share Information about the activities
and future plans of each country

APRSAF-12 (2005) to APRSAF-20

Launch Initiatives to demonstrate
Space Technology

APRSAF-21 (2014) and After

Extract more Values from Space
(Socio-economic outcome)



APRSAF-22 Recommendations

[Sentinel Asia]

18. Noted that Sentinel Asia is the first successful Initiative of APRSAF as a framework for cooperation among Space technology and GIS-related organizations (SGO), and relevant disaster management organizations (DMO) to contribute to disaster management by harnessing space technology. Its activities are being pushed forward through the continuous increase in the number of member organizations and countries. APRSAF fully welcomes each new member to join in Sentinel Asia as a Data Provider Node (DPN), a Data Analysis Node (DAN) or as a member of the Joint Project Team (JPT);

19. Acknowledged that the Steering Committee of Sentinel Asia was established and is implementing a plan to evolve Sentinel Asia STEP3 based on the three strategic concepts endorsed at APRSAF-21 in 2014: jointly drive, end-user-oriented, and strategic management;

APRSAF-22 Recommendations (cont'd)

20. Confirmed that the First Steering Committee (FSC) meeting was held for overall strategic management, that the establishment of a sustainable and autonomous Sentinel Asia Platform was discussed at this meeting. Such a platform shall use space technology for disaster risk and damage reduction in the Asia-Pacific region through collaboration among SGOs and DMOs, who will share the benefits from this initiative to serve their respective purposes. The work has been commenced for implementation;

21. Endorsed the content of the implementation plan suggested by the FSC, including:

- timely provision of information valuable for in-situ disaster response activities through close information exchange between the in-situ DMO and DPN/DAN;
- reconfiguring WGs dedicated to different disaster types through the collaboration of SGO and DMO to discuss and suggest the best plan and methodology of developing and utilizing Earth observation products;
- promoting collaboration with institutions, universities and consortiums with the aim of establishing an archiving and sharing system of geospatial information and products; and
- implementing success stories linked with developing projects of each region.

APRSAF welcomes the implementation of the plan and also expects this plan to be agreed by consensus of all Sentinel Asia members in the Joint Project Team Meeting to be held in January 2016.

APRSAF-22 Recommendations (cont'd)

<Recommendations>

22. The following recommendations were made regarding Sentinel Asia:

- A) To encourage continuous active discussions in the Sentinel Asia Steering Committee with the support of the JAXA secretariat towards **sustainable and autonomous operation of Sentinel Asia**;
- B) To welcome the establishment of a system necessary for rapid information sharing and for **promoting capacity building to strengthen technological background and ability** as well as disaster response ability;
- C) To encourage enhancing the features of Sentinel Asia and its uniqueness—that is, **a collaborated framework of SGO and DMO**—to promote substantial disaster risk and damage reduction in the Asia-Pacific region; and to **collaborate and cooperate with global disaster management frameworks** such as the International Disaster Charter, the Global Earth Observation System of Systems (GEOSS), the Committee on Earth Observation Satellites (CEOS) and other United Nations initiatives;
- D) To encourage strengthening the framework and architecture of Sentinel Asia towards **the construction of an Asia-Pacific platform on which each member organization and country can pursue benefits by contributing to Sentinel Asia for the sustainable and autonomous operation of Sentinel Asia**.



Thank you for your attention.

