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

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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.
20th Anniversary of APRSAF

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

1993

1992 ISY

19th APRSAF (2012)
- 380 Participants
- 47 Countries & Organizations

2013
Establishment of APRSAF

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

APRSAF-1 1993
APRSAF-2 1994
APRSAF-3 1996
APRSAF-4 1997
APRSAF-5 1998
APRSAF-6 1999
APRSAF-7 2000
APRSAF-8 2001
APRSAF-9 2002
APRSAF-10 2003
APRSAF-11 2004
APRSAF-12 2005
APRSAF-13 2006
APRSAF-14 2007
APRSAF-15 2008
APRSAF-16 2010
APRSAF-17 2010
APRSAF-18 2011
APRSAF-19 2012
APRSAF-20 2013, Vietnam

2001 4 Working Groups
2005 Sentinel Asia
2008 SAFE
2012 Kibo-ABC
2011 Climate R3

2012 SAFE
2010 Climate R3
2008 Sentinel Asia
2005 APRSAF-9
2004 APRSAF-13
2003 APRSAF-12
2002 APRSAF-11
2001 APRSAF-10
1999 APRSAF-6
1998 APRSAF-5
1997 APRSAF-4
1996 APRSAF-3
1994 APRSAF-2
1993 APRSAF-1

Japan
Japan
Japan
Japan
Japan
Japan
Japan
Australia
Mongolia
Korea
Thailand
Indonesia
India
Vietnam
Thailand
Australia
Singapore
Malaysia
1998 APRSAF-5
Mongolia

First APRSAF held outside Japan
2001 APRSAF-8
Malaysia

Theme: New Space Age in the Asia and Pacific Region
4 working groups established
2003 APRSAF-9
Korea

Theme: Beneficial Space Application for the Region
Recommended in order to reinforce secretariat function
2004 APRSAF-10
Thailand

Theme: New Space Age in the Asia and Pacific Region
Discussed to promote cooperation on space application
2004 APRSAF-11
Australia

Theme: Toward Expansion of the Space Community
Sentinel Asia initiative established
Theme: Work Together, Building a Secure and Prosperous Society

Recognized the need to make further efforts to enhance disaster management by using space technologies
2008 APRSAF-15
Vietnam

Theme: Space for Sustainable Development
SAFE initiative established, over 200 participants
theme: Space Applications: Contributions towards Human Safety and Security
Over 300 participants
2010 APRSAF-17
Australia

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”
Climate R3 initiative established, special astronaut event “Asians in Space: Achievements of Human Spaceflight in Asian Countries” held
2012 APRSAF-19
Malaysia

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

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 - 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)

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.)
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 (2)
Successful Outcomes (3)
- 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.
The Next 20 years and Beyond

- 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.
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

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

- Dates and venue:
  3-6 December, 2013, Hanoi

- Co-organizers:
  VAST, STI, MEXT, JAXA

- APRSAF Activities:
  - SAFE Workshop
  - Kibo-ABC Workshop
  - Poster Contest
  - Water Rocket Event
  - Industrial Exhibition
We are looking forward to your participation!

www.aprsaf.org