

APRSAF Activity in the Asia-Pacific Region for the Next Decade

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ASIA

- High Economic Growth Rate
- Disaster-prone and Environmental Issues
- Increasing Interest in Space Technology and Utilization among Asian countries

JAPAN / JAXA

- Deepening of economic and social cooperative ties with Asian countries
- Changes on science and technology policy, as well as space policy
- New roles of JAXA

As a result of these environmental and societal changes,

JAXA will seek to find and contribute to solutions for issues facing the Asia-Pacific region by utilizing space technology.

Asia-Pacific Regional Space Agency Forum (APRSAF)

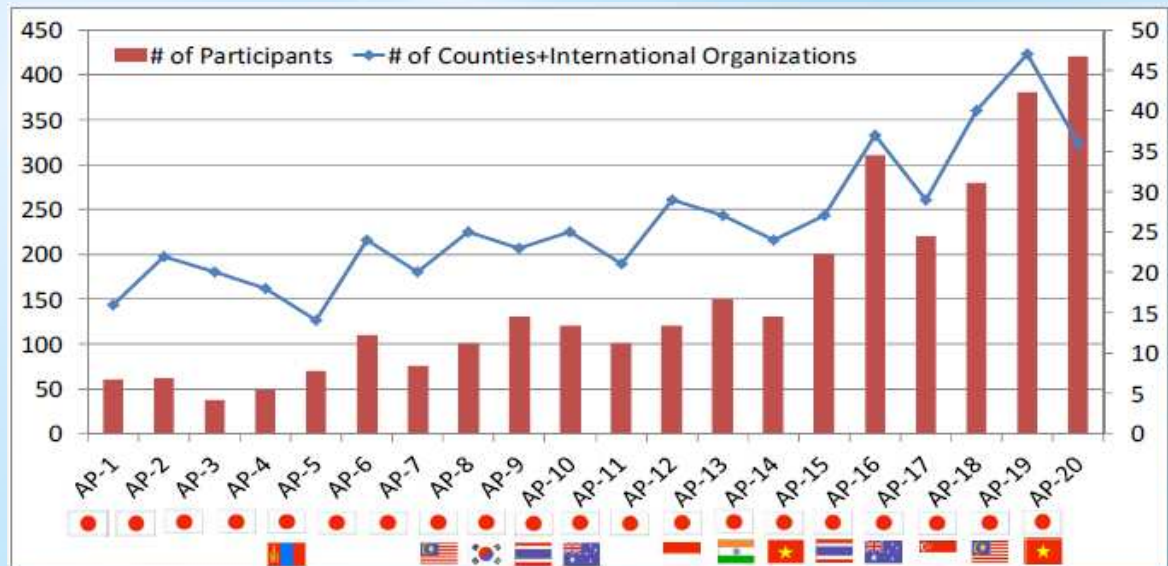
- Expansion of activities over the past 20 years
- APRSAF operation through international consensus among participating organizations



20th Anniversary Session of APRSAF 2013, Hanoi, Vietnam

1 Expanding and Diversifying APRSAF Community

- The largest space community in the Asia-Pacific region it has been active for 20 years
- Co-organized by Asian countries
- Expanding and diversifying with participants from various background



2 International Cooperation Initiatives

➤ 4 ongoing initiatives have been established out of working group discussions

Initiative	Target	Estab.
1. Sentinel Asia	Disaster Management	2005
2. SAFE (Space Application for Environment)	Environment Monitoring	2008
3. Climate R ³ (Regional Readiness Review for Key Climate Missions)	Climate Change	2011 (led by Australia)
4. Kibo-ABC (Asian Beneficial Collaboration through “Kibo” Utilization)	ISS	2012
*** STAR (Satellite Technology for Asia-Pacific Region) ⇒UNIFORM (“Microsat R&D Project” by union of universities)	Capacity Building through Microsat Development	2009 (STAR) 2012(UNIFORM)

➤ Need to renovate Sentinel Asia and promote other initiative activities

- It is time for each initiative to step-up for the next phase of its sustainable operations.
- Sentinel Asia, the leading APRSAF initiative expanding its participants and activities, is also facing some challenges with its framework and budget for continued operations. A Task Force team was established to improve these activities.
- The other 3 initiatives also need improvement and require cooperation with related organizations outside the space field.

APRSAF will restructure its working groups (WG) from ones that are solely space-technology-oriented to ones that are also solution-oriented to contribute in the Asia-Pacific region

Current WGs

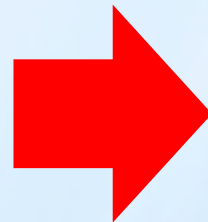
Technology-oriented/
led by space agencies

Earth
Observation WG

Communication
Satellite
Application WG

Space
Environment
Utilization WG

Space Education
and Awareness
WG



Future WGs

Technology + Solution-oriented/
User and donor organizations

Space Application
WG

Space Technology
WG

Space
Environment
Utilization WG

Space Education
WG

Expected New Participants

- Donor Organizations (JICA, ADB)
- Related user ministries and agencies
- Disaster Mitigation agencies
- Int'l organizations

- Countries having interest in space tech
- Developed and emerging countries
- Private entities

- Countries having interest in ISS utilization and space exploration

- JICA
- Int'l organizations such as UNESCO
- Science Museum association

APRSAF will;

- Solve regional issues using space technology
- Discuss a variety of topics not only space, but applications on the Earth
- Work as an open and flexible framework for cooperation




At APRSAF-20, participants agreed on the expectations for APRSAF and space technology, and the necessity to respond to changing needs in the region.
(APRSAF-20 Recommendations #2, #41)

**APRSAF always welcomes
new participants
from various areas**

The Japan International Cooperation Agency (JICA) and the Japan Aerospace Exploration Agency (JAXA) signed a partnership agreement on 23 April, 2014.

We will work hand in hand to solve issues pertaining not only to the Asia-Pacific Region but also to the entire world



Promotion of
Space-Related
Systems

Capacity
Building

Utilization of
Space Tech for
Development and
Global Issues

Exchange of
Opinions

■ Project

Training Programme on Capacity Development for Immediate Access and Effective Utilization of Satellite Information for Disaster Management

A instructor from JAXA gave a lecture at the training program for Asian countries held by JICA on November, 2013, in Jakarta, Indonesia

Earth observation by satellite

Comparison of optical and radar imagery

Optical

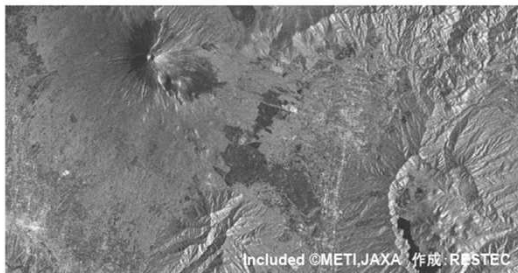


Ortho-rectified AVNIR-2 imagery (true color) 2006/12/30 10:15(JST) ©JAXA

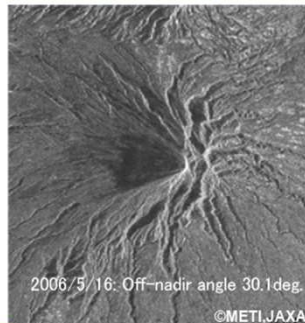


2006/5/16: Off-nadir angle 30.1deg. ©JAXA

SAR



Included ©METI,JAXA / 作成: RESTEC
Ortho-rectified (foreshortening) PALSAR imagery, 2006/12/30 10:15(JST)



2006/5/16: Off-nadir angle 30.1deg. ©METI,JAXA

Practical Training on Sentinel Asia



Q&A Session



JICA-JAXA Collaboration Synergy



Space
Technology

RESOURCES
ENERGY

ODA

COMMUNICATION



EDUCATION

FISHERY



AGRICULTURE



INFRASTRUCTURE



DISASTER



WATER



CLIMATE



NATURE
CONSERVATION

HEALTH



ECONOMIC



A synergy can be created with cooperation between JICA and JAXA

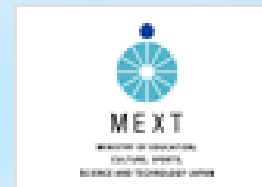
 **Miraikan**

■ Dates and Venue:

2-5 December, 2014 Tokyo

National Museum of Emerging
Science and Innovation
“Miraikan”

■ Co-Organizers:



■ Supported by:

