Regional GEOSS: Challenge, Cooperation and Contribution to the Global GEOSS - points from AOGEOSS

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AOGEOSS, which is co-led by China, Australia, Japan, and Republic of Korea, became a GEO Initiatives at the 13th GEO plenary (Nov. of 2016). The coordination board was established in Sep. of 2017. Now, 11 countries in AO region and 12 international organizations participate in this work.

- Biodiversity and Ecosystem Sustainability
- Disaster Resilience
- Energy and Mineral Resources Management
- Food Security and Sustainable Agriculture
- Infrastructure and Transport Management
- Public Health Surveillance
- Sustainable Urban Development
- Water resources Management
AOGEOSS Tasks

1. Merge of Task group (TG1 & 6; TG4 & 8)

2. Interest of setting up new TG (Disaster and rapid response)
AOGEOSS Key Activities of 2018

- Coordination and expanding participation (Coordination board and task groups)
- International symposium
- Focusing on International Science and Technology Program, Development of Observing Capacity, Data Processing and Information Products, Regional Applications, and Data Sharing
- International training courses
- Nearly 90 young scholars from 14 countries in the AO region were financially supported

First AOGEOSS conference
Deqing, China, May of 2018

11th GEOSS Asia-Pacific Symposium
Kyoto, Japan, October of 2018

International training courses
Nepal, Sep. of 2018

International training courses
Deqing, China, May of 2018

International training courses
Laos, Oct. of 2018
AOGEOSS Key Activities of 2018

The First International Conference and Training Workshop on Asia Oceania GEOSS was held in Deqing, China from 15 to 19 May 2018, by the Group on Earth Observations (GEO), ChinaGEO Secretariat, National Remote Sensing Center of China (NRSCC) and the Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences (RADI, CAS). The Workshop attended by 82 participants from 16 countries.

24 participants from 12 countries attended 2-day training course.
AOGEOSS Key Activities of 2018

11th GEOSS Asia-Pacific Symposium

• The Symposium was held in Kyoto, Japan from 24 to 26 October 2018 by GEO and Japan’s Ministry of Education, Culture, Sports, Science and Technology (MEXT). It was attended by 171 participants.

• The Symposium addressed the theme of “Strengthening Regional Cooperation through AOGEOSS for the SDGs, Paris Agreement and Sendai Framework”.

• Each task group focused on developing a clear work program for 2019 directly delivering on GEO’s priority areas.
AOGEOSS Key Activities of 2018

Asia-Oceania GEOSS Network for Capacity Building: Regional Sustainable Development for Agriculture and Disaster Monitoring in Hindu Kush Himalaya”
17-21, Sep., 2018 in Nepal
25 participants from 6 countries and ICIMOD attended

Asia-Oceania GEOSS Network for Capacity Building: Earth Observation Data For Urban, Agriculture And Disaster Monitoring In Mekong Basin
15-19 October 2018 in Laos
30 participants attended
What are the challenges of Regional GEOSS?

- Increasing user need vs. efficient information services
- Urgent observing demand vs. unbalanced resource deployment (infrastructure, technologies, data accumulated etc.)
- Growth of observing ability vs. Integrated analysis ability to be enhanced
- Insufficient coordination within AOGEOSS network (among countries)
- Continuous Involvement and contribution from POs (diverse vs. active)
- Unclear pathway on substantial contribution to reaching regional SDGs
- Expected to impact more to global community
What can be expected through collaboration and communication among other Regional GEOSS initiatives?

✓ Utilize existing infrastructure, resources and capacity to develop integrated observations and joint applications;
  ✓ AP BON, GDMAP etc
  ✓ DataCube, DIAS, SpectrumEarth
  ✓ Regional or thematic data Cloud infrastructure in country or regional organizations
✓ Data sharing and services with mutual benefit between RGs;
  ✓ Data services for rapid response (Mexico earthquake in 2017 with AmeriGEOSS)
✓ Extended network by technology supporting and knowledge sharing;
  ✓ Host AP GEOSS Symposium (Hanoi, Kyoto) and AOGE OSS Conference (Deqing)
  ✓ Participation in 2nd AfriGEOSS Symposium and 1st EuroGEOSS
  ✓ Joint training course (Nepal, Laos and more issues in 2019)
What are the opportunities by regional coordination and cooperation, and what do we expect Regional GEOSS to expand/accelerate global GEO activities?

- **Opportunity**
  - More available satellite data source;
  - Implementation cloud-based infrastructure;
  - More support from member countries and POs
  - Increasing interest and investment on Development regional and global Dataset (DataCube, SE, DIAS and ARD);
  - Growing concerns on In-situ observation;
  - Result-oriented applications

- **Link to GEO Global Activities**
  - Regional GEOSS has defined objectives and corresponding task to aid implementing of GEO’s three priority engagements
  - Development and Integration of applications, systems, products and best practices
  - Support decision-making and regional sustainable development
    - concerted actions to realize SFDRR, Paris agreement and 2030 Agenda
    - Pilot Project in Mekong River basin, Himalayas and Pacific
Thank you

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