



Asia-Oceania GEOSS

Wenbo Chu, GEO Secretariat
CEOS WGCapD-7 Meeting
8 March 2018

www.earthobservations.org
www.geoportal.org

Asia-Oceania Region

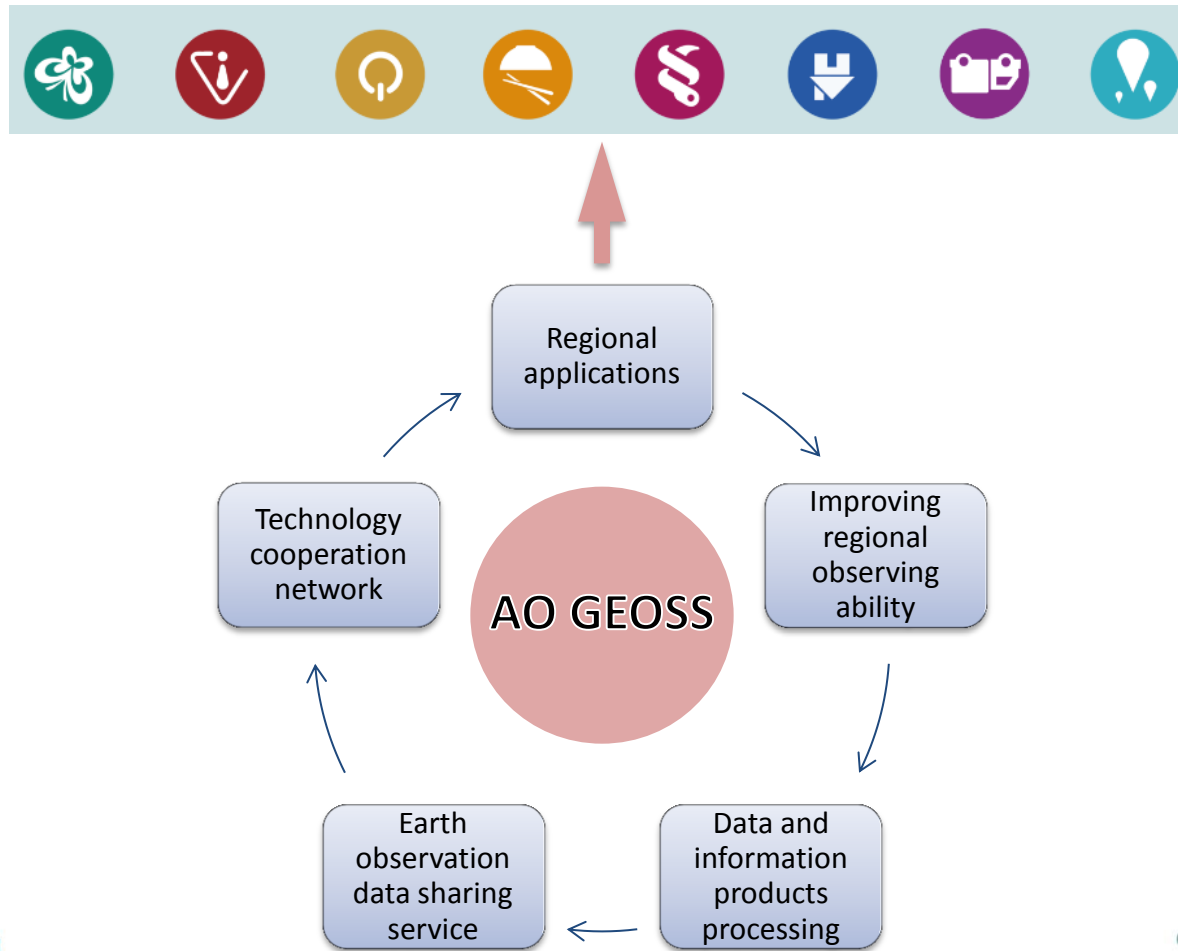
High demand in EO for decision-making

- Complex geography
- **70%** of world's population
- Unbalanced socioeconomic development
- Vulnerable to climate change
- **70%** of world's Natural disasters
- Deteriorating ecological environment



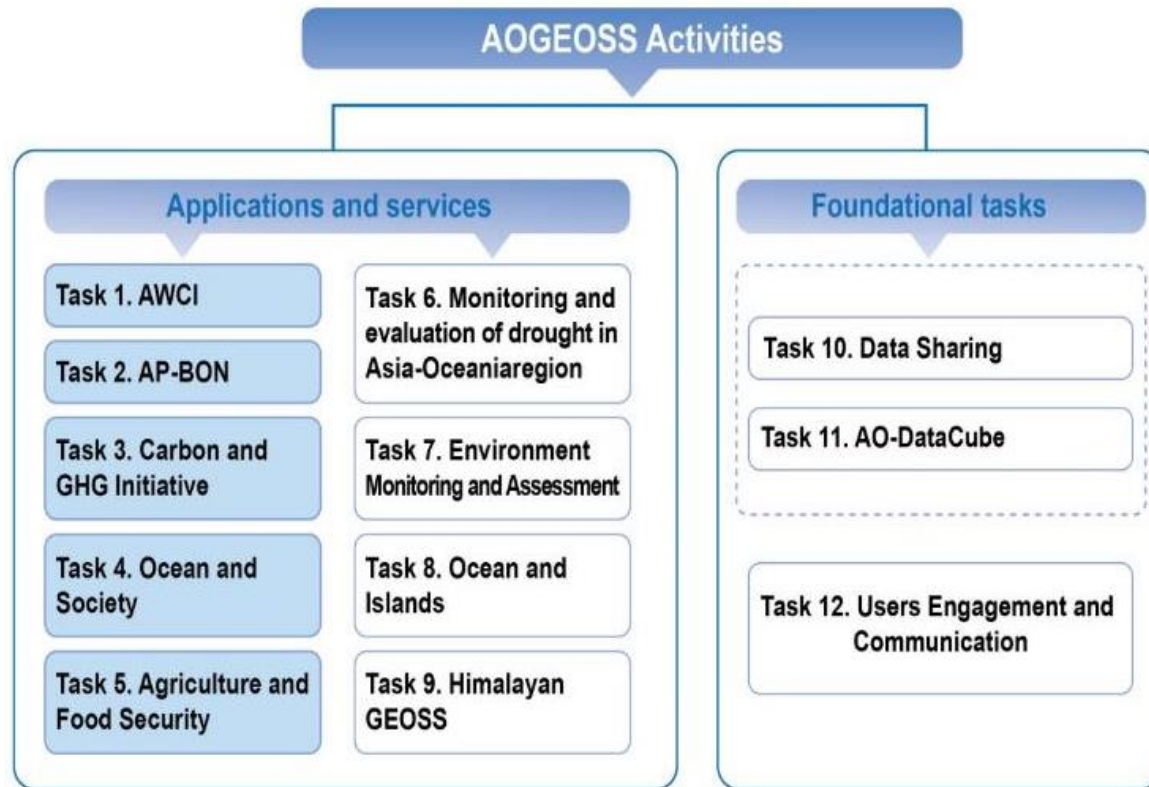
AOGEOSS Objectives

Deepen regional collaboration in EO value chain



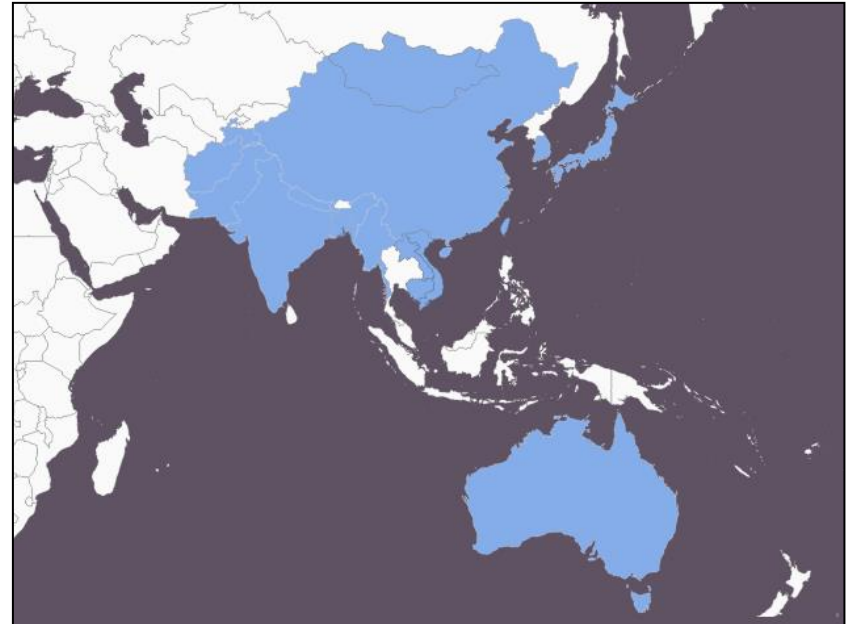
AOGEOSS Activities

Priorities of the region

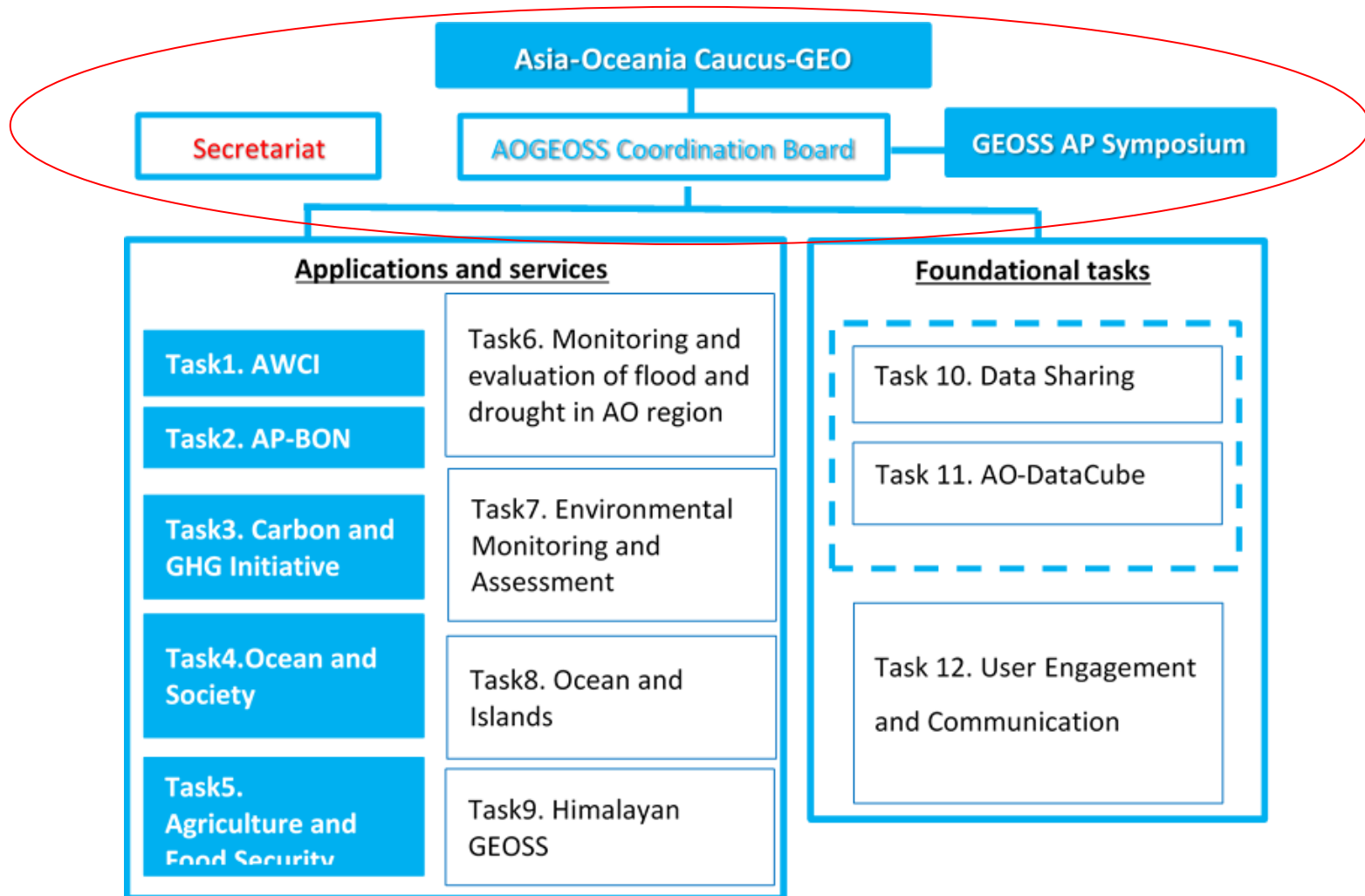


Participation

- Co-chaired by Australia, China, Japan and Korea
- 13 Member Countries
- 12 Participating Organizations:
 - APSCO
 - GRSS
 - ICIMOD
 - ICSU/Future Earth
 - ICSU/IRDR
 - ISDE
 - ISPRS
 - POGOUNEP-IEMP
 - UNESCAP
 - UNESCO-HIST
 - WMO



Governance structure



Contribution from China

Regional capacity

Policy Mandate

Advance international data sharing and service of satellite remote sensing in the framework of the Group on Earth Observations (GEO)

-- Medium and Long Term Development Plan for China's Civil Space Infrastructure

Open data shared through GEOSS

- 100T+ EO data from major satellites (HJ,ZY & GF)
- Cbers-4 data (5m resolution) collected from July 2015 to now with continuous further update
- Data from the newly launched TanSat

High performance computing and cloud service

- National Supercomputing Center in Wuxi with peak performance over 100pflops

Contribution from Japan




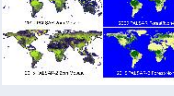
Regional capacity

Continuously sponsor GEOSS Asia-Pacific Symposia. Around 2000 participants in total



Data Integration and Analysis System Program

Open EO data from Japan

	Portal Name and URL
	G-Portal (GPM, TRMM, JERS-1, AQUA/AMSR-E, JERS-1, ADEOS, ADEOS-II, MOS-1/1b) https://www.gportal.jaxa.jp/gp/top.html *Free and Open Data
	GCOM-W: Global Change Observation Mission-Water http://suzaku.eorc.jaxa.jp/GCOM_W/data/data_w_index.html *Free and Open Data
	GSMaP: Global Satellite Mapping of Precipitation http://sharaku.eorc.jaxa.jp/GSMaP_crest/index.html *Free and Open Data
	Precise Global Digital 3D Map "ALOS World 3D" Homepage (30m resolution) http://www.eorc.jaxa.jp/ALOS/en/aw3d/index_e.htm *Free and Open Data
	Global PALSAR-2/PALSAR/JERS-1 Mosaic and Forest/Non-Forest map http://www.eorc.jaxa.jp/ALOS/en/palsar_fnf/fnf_index.htm *Free and Open Data

AOGEOSS for SDGs

AOGEOSS in Action

Two Symposia held in 2017 on the theme

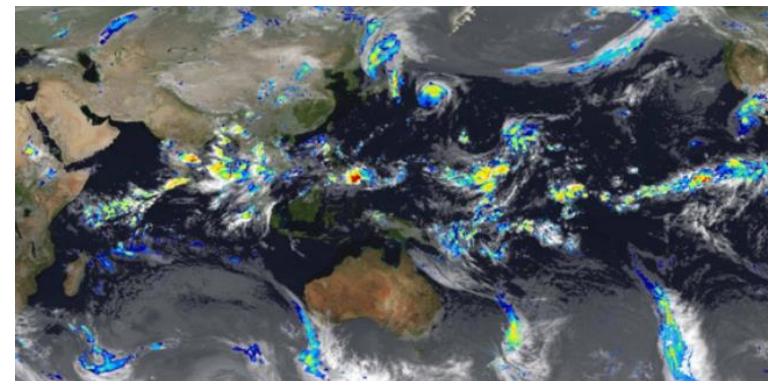


Case Study

6.5.1 Degree of integrated water resources management implementation (0-100)

Flood Prediction System using

- Global Satellite Map of Precipitation (GSMaP) and
- Rain-gauge data for correction and validation



AOGEOSS for DRR

AOGEOSS in Action

- Assistance in emergency response when disaster events occur
 - Provide high-resolution & real-time satellite imagery by both public sectors and commercial sectors
 - Among the AO region (2016 Kaikoura Earthquake in New Zealand, 2017 Iran/Iraq Earthquake) or for other regions (2017 Qiapas Earthquake in Mexico) through the regional GEOSS network
- Long-term collaboration mechanisms in discussion
- Publication of historical data on disaster events in the region

Kaikoura Earthquake Emergency Response



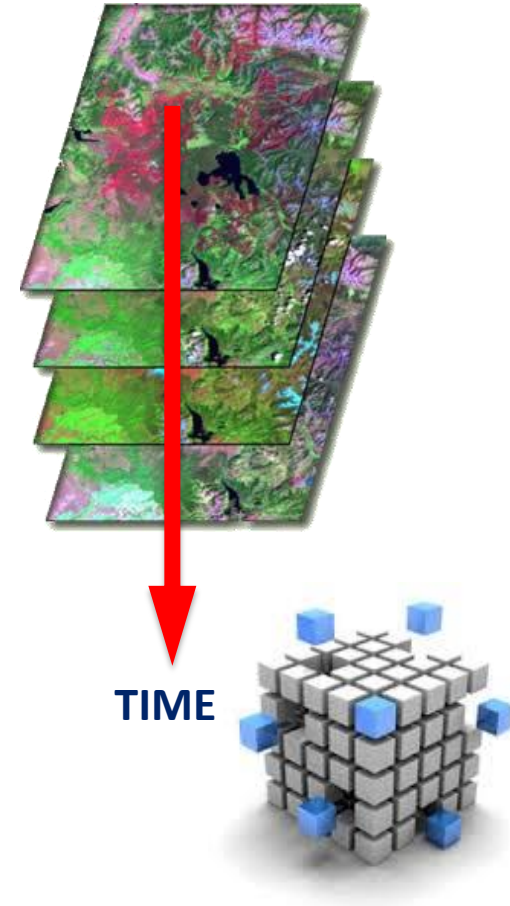
Data Source: BJ-2 (Image date:14 Nov 2016; Resolution 0.8m) and Jilin-1 (Image date:16 Nov 2016; Resolution: 0.72m)



AO DataCube

AOGEOSS in Action

- Landsat and Copernicus data already deployed
- GF-1 data in testing
- More datasets from AO Countries will be tested and integrated
- Training centers for AO DataCube are planned



Engagement

AOGEOSS in Action

Had Pacific Island Countries
and Organizations attend
AOGEOSS Meeting



FFA

GEO and AOGEOSS made way to
be included in the draft outline
of *the Asia-Pacific Plan of Action
for Space Applications (2018-
2030)*

Upcoming Meetings

AOGEOSS in Action

- AOGEOSS International Conference and **Training Workshop**, 16-19 May 2018, Deqing, Zhejiang, China
- 11th GEOSS Asia-Pacific Symposium, the week before GEO-V Plenary, October 2018, Kyoto, Japan
- Asia-Oceania Day at the GEO-XV Plenary, Kyoto, Japan



**Asia-Oceania Global Earth Observation System of Systems
International Conference and Training Workshop**

16-19 May 2018
Deqing, Zhejiang, China



<http://aogeoss2018.csp.escience.cn/>

Thank You

Communicate and Collaborate with GEO:

