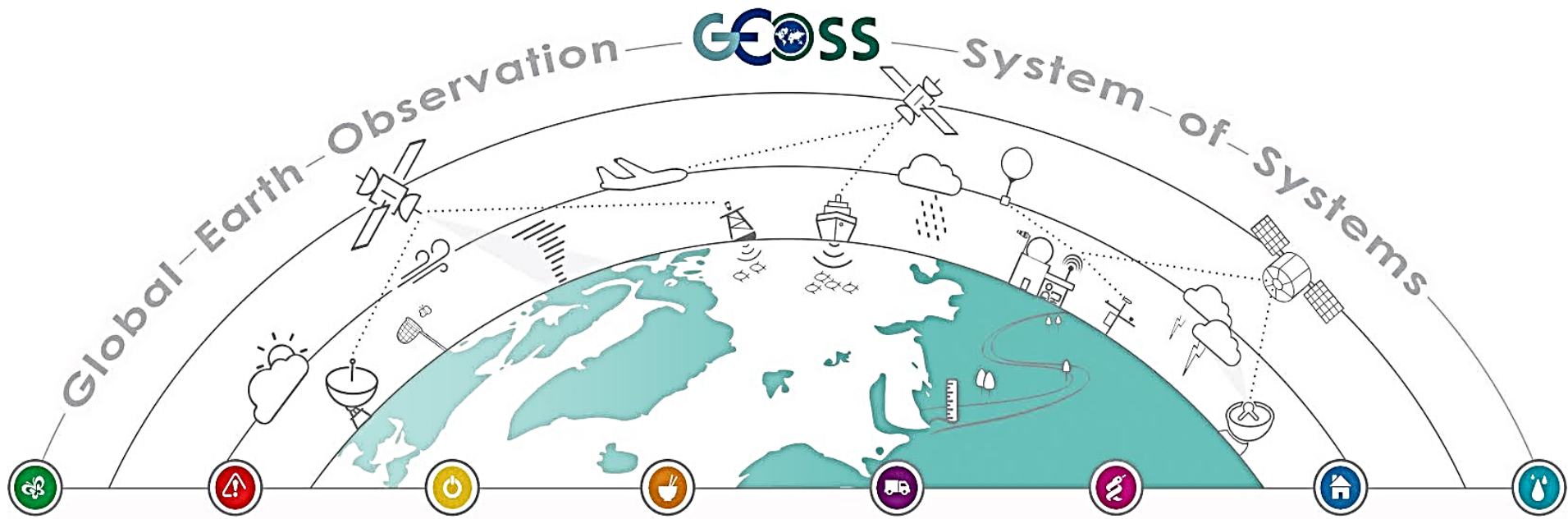


China's Engagement in GEO & GEOSS

Dr. Li Jiahong, GEO China Secretariat



China's Engagement in GEO & GEOSS



1. Strategic Plans & Implementations

1.1 China proposed “the Silk Road Economic Belt and the twenty-first Century Maritime Silk Road Cooperation Initiative” in 2013.

- Chinese government has endorsed and released “**The Belt and Road Strategic Plan**”, as the action plan following “the Belt and Road Initiative” last April.
- This Plan **emphasizes** the ecological environment, biodiversity and climate change cooperation in this region.
- It is necessary to promote the construction of sustainable development of the Belt and Road **jointly with the Earth observation.**

1. Strategic Plans & Implementations

1.1 China proposed “the Silk Road Economic Belt and the twenty-first Century Maritime Silk Road Cooperation Initiative” in 2013.

- Chinese government also endorsed **“The Belt and Road” Spatial Information Corridor Construction and Application Plan** in the Earth Observation field.
- **This Plan strengthens** the developments of the Earth Observation satellites and their applications, and the international cooperation for promoting sustainable development in this region.

1. Strategic Plans & Implementations

1.1 China proposed “the Silk Road Economic Belt and the twenty-first Century Maritime Silk Road Cooperation Initiative” in 2013.

- Released the **Global Ecosystem and Environment Earth Observation: Annual Report from China (GEOARC)** in 2016, focusing on sustainable development, to provide spatial information on ecological environment changes from 2005 to 2015.
- These remote sensing products can be downloaded on National Integrated Earth Observation Data Sharing Platform:
<http://www.Chinageoss.org>.
- GEOARC will continue focusing **on this special topic** this year.

1. Strategic Plans & Implementations

1.1 China proposed “the Silk Road Economic Belt and the twenty-first Century Maritime Silk Road Cooperation Initiative” in 2013.

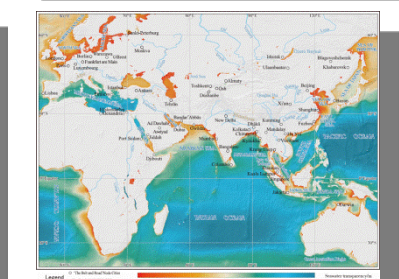
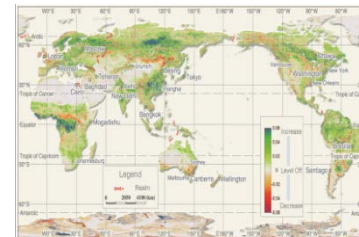


1. Strategic Plans & Implementations

1.1 China proposed “the Silk Road Economic Belt and the twenty-first Century Maritime Silk Road Cooperation Initiative” in 2013.

Global Ecosystem and Environment Observation: Annual Report from China (GEOARC)

- An example of China's efforts on turning Earth observation data into knowledge
- Twelve reports have been released with focused themes since 2013
- Data Sharing:
<http://www.chinageoss.org/geoarc>
- Total downloads of datasets > 10TB
- Total downloaded over 10,000 times



1. Strategic Plans & Implementations

1.2 China actively responds to Global Climate Change, and has taken the lead in signing the Paris Climate Agreement at the G20 Summit in Hangzhou 2016

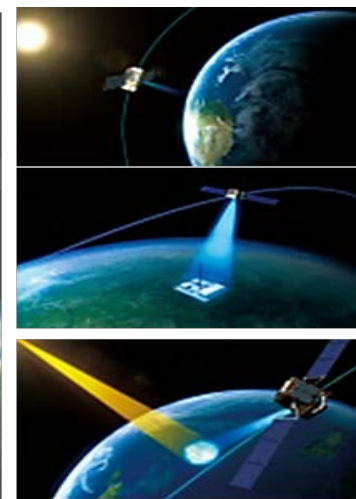
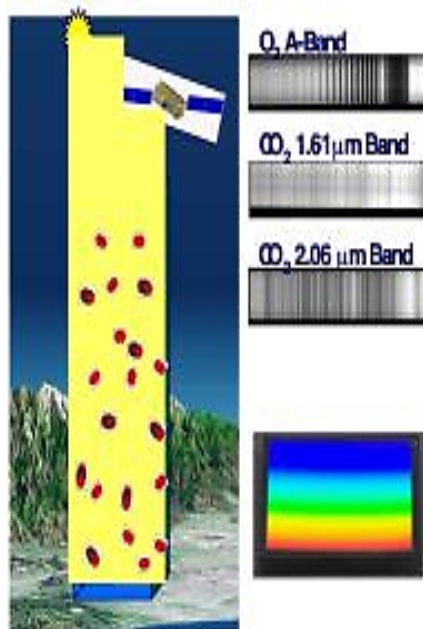
- Chinese government successfully launched the Global Atmospheric Carbon Dioxide Monitoring Scientific Experiment Satellites (**TANSAT**) on December 22nd last year.
- Promoting TANSAT **data sharing services for GEO & GEOSS**
- Under the framework of GEO and GEOSS, China GEO will strengthen the cooperation to **set a virtual satellite constellation** for the joint observation.

1. Strategic Plans & Implementations

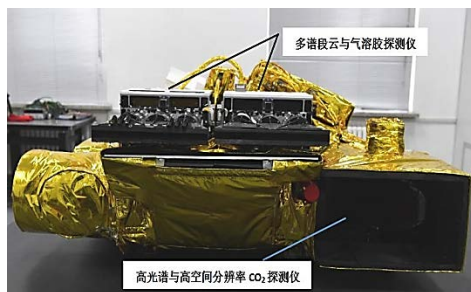
1.2 China actively responds to Global Climate Change, has taken the lead in signing the Paris Climate Agreement at the G20 Summit in Hangzhou 2016



新华网
www.xinhuanet.com



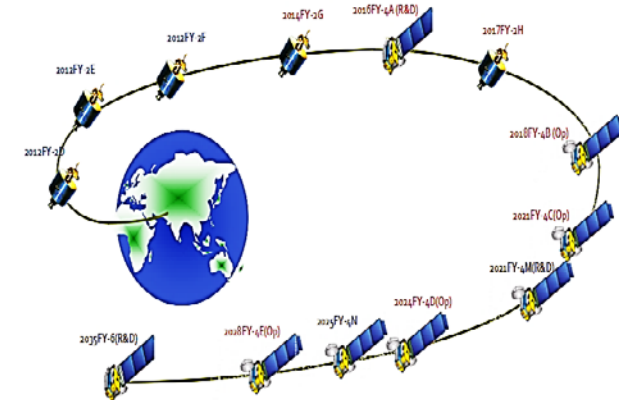
TanSat
(Launched on 22 Dec., 2016)



1. Strategic Plans & Implementations

1.3 Chinese government has endorsed and released National Civil Space Infrastructure for Medium and Long-term Development Plan (2015-2025) in 2015.

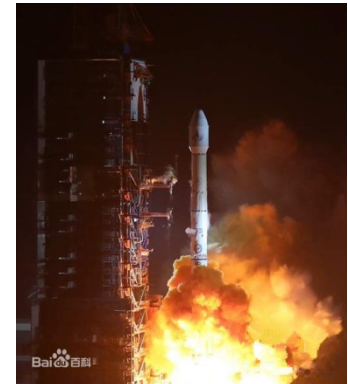
- Developments of land, ocean and meteorological satellite series.
- The construction of remote sensing satellite systems are composed of 7 constellations and 3 kinds of special satellites.
- It is expected to enhance the global remote sensing data receiving and global service capabilities.
- The plan will **actively support GEO to promote the international cooperation and data sharing and services.**



1. Strategic Plans & Implementations

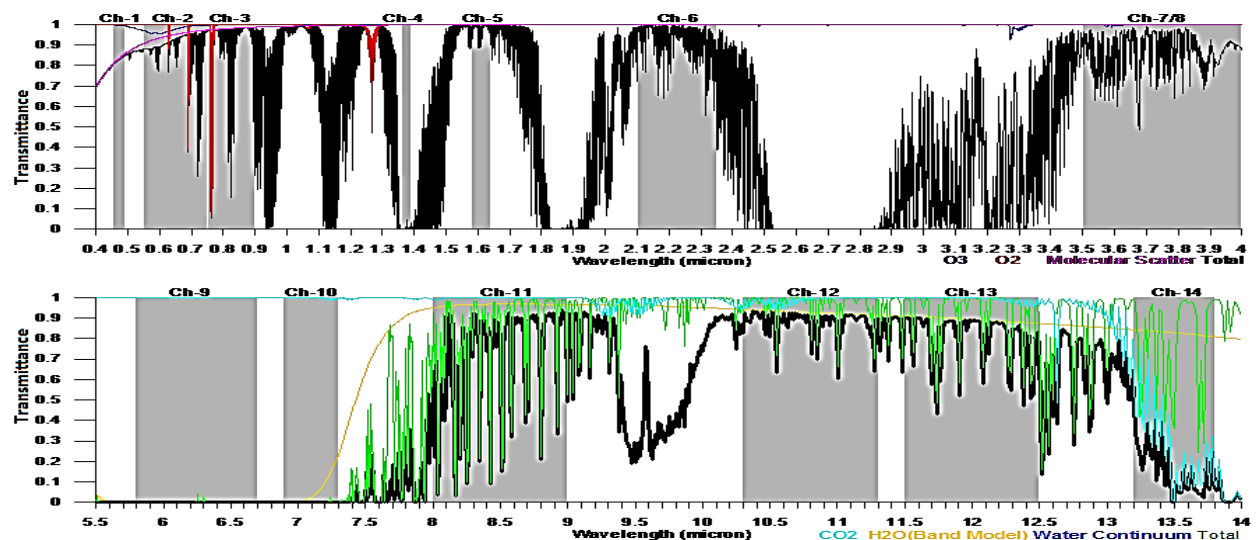
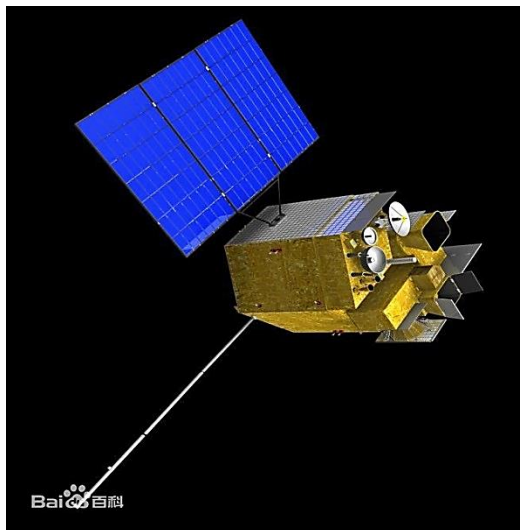
1.3 Chinese government has endorsed and released National Civil Space Infrastructure for Medium and Long-term Development Plan (2015-2025) in 2015.

- the Chinese government has successfully **launched FENGYUN 4A meteorological satellite** on 11 December last year.
- **FY 4 satellite is equipped by:**
 - multi-channel scanning imagery radiometer
 - atmospheric sounding interferometer
 - lightning imaging sensor
 - space environment monitoring instrument



1. Strategic Plans & Implementations

1.3 Chinese government has endorsed and released National Civil Space Infrastructure for Medium and Long-term Development Plan (2015-2025) in 2015.



1. Strategic Plans & Implementations

1.3 Chinese government has endorsed and released National Civil Space Infrastructure for Medium and Long-term Development Plan (2015-2025) in 2015.

- China has established a **China Remote Sensing Satellite North Polar Ground Station in Sweden**, which will greatly enhance the data receiving capabilities of Chinese satellites.



2. Engagement in GEO and GEOSS

2.1 As the leading ministry of the Coordination Group and GEO's Ambassador in China, MOST has brought the other 18 ministries, involved in GEO and GEOSS actively.

- Especially in last year, the **Coordination Group** has selected **four co-leading ministries**, to enhance China GEO to engage in GEO and GEOSS effectively.
 - China Meteorological Administration
 - National Administration of Surveying, Mapping and Geoinformation
 - Chinese Academy of Sciences
 - China National Space Administration

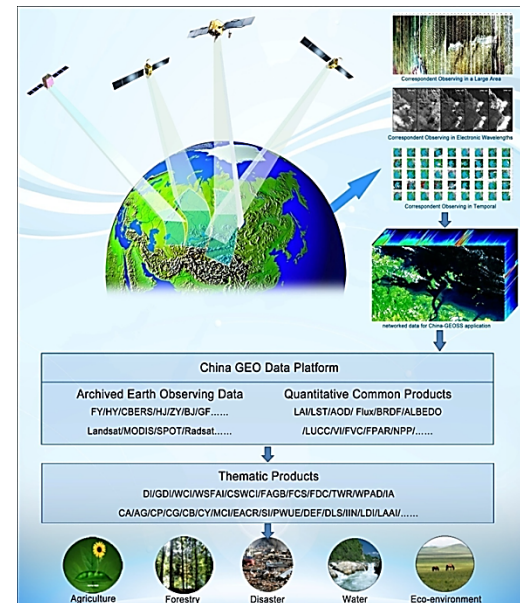
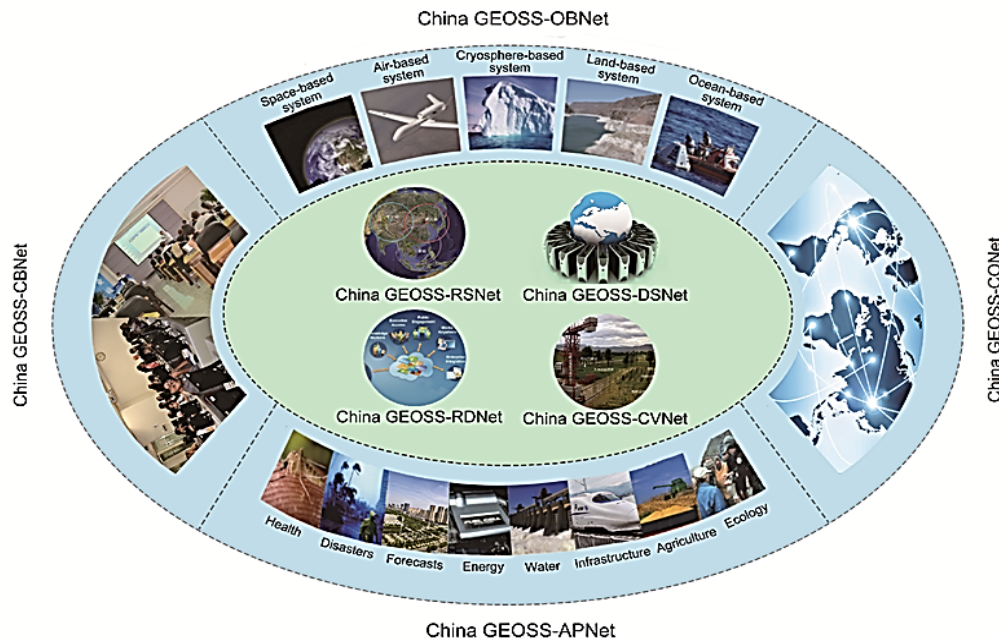
2. Engagement in GEO and GEOSS

2.2 As GEO Co-chair Country and the Ambassador in AO Region, China has implemented AOGEOSS Initiative, more countries will be involved GEO and GEOSS actively.

- To enhance cooperation with Japan, Australia, South Korea, India, Mongolia and other countries, as well as some international organizations, especially UNESCAP
- Jointly promote the implementation of **AO GEOSS Initiative**
- **More deeply and effectively** involved in GEO and GEOSS implementing plan(2016-2025).

2. Engagement in GEO and GEOSS

2.3 China GEO has initiated China GEOSS Implementing Plan (2016 -2025) to guide the Chinese government to be involved in GEO and GEOSS in last year.



3. Actively Implementing the GEO Projects

3.1 Asia-Oceania GEOSS (AO GEOSS) Initiative. The aim is to establish the comprehensive earth observation application systems in Asia-Oceania region.

Co-leads:

- China
- Australia
- Japan



Participants:

- | | |
|--------------|---------------------|
| ● Bangladesh | ● UNEP-IEMP |
| ● India | ● UNESCO-HIST |
| ● Korea | ● WMO |
| ● Laos | ● UNESCAP |
| ● Mongolia | ● CEOS |
| ● Myanmar | ● ICSU/Future Earth |
| ● Nepal | ● ICSU/IRDR |
| ● Pakistan | ● |

3. Actively Implementing the GEO Projects

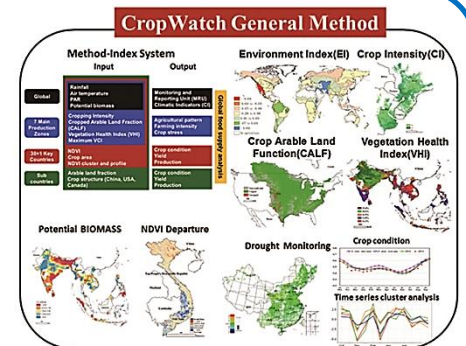
3.1 Asia-Oceania GEOSS (AO GEOSS) Initiative. The aim is to establish the comprehensive earth observation application systems in Asia-Oceania region.

- This Initiative is co-led by China, Japan and Australia, with other 8 countries and 12 international organizations involved in.
- In this symposium we will discuss on **the coordination mechanism** and the road map of **AO GEOSS** together.
- China GEO will release one of the annual report through **GEOARC**, focusing on the ecological environment in this region by using remote sensing satellite.

3. Actively Implementing the GEO Projects

3.2 Global Agricultural Monitoring (GEOGLAM) Flagship will contribute to generate reliable, accurate, timely and sustained crop monitoring information and yield forecasts.

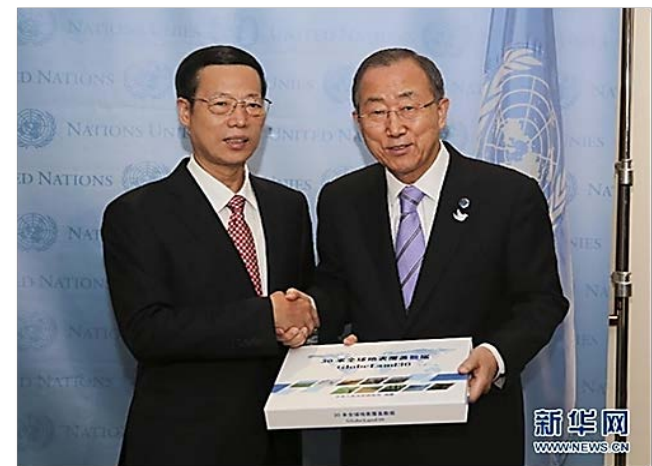
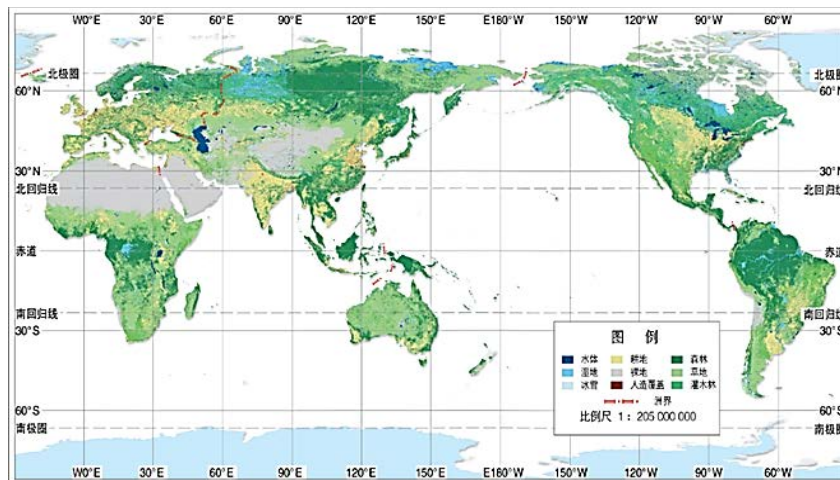
- As one of the co-leading countries of GEOGLAM, China GEO will enhance the cooperation with United States, Europe Union and other countries, as well as some POs, especially FAO.
- As one of the three major global crop monitoring system in this flagship, **Chinese CropWatch** produces relevant, timely and accurate forecasts of global agricultural production.



3. Actively Implementing the GEO Projects

3.3 Land Cover and Land Cover Change Community
Activity: accurate and up-to-date land cover and land cover change products are more important than ever.

- China GEO will to update the **Globe Land 30** from 2010 to 2015.



3. Actively Implementing the GEO Projects

3.4 GEO Cold Regions Initiative (GEOCRI). The vision is to provide coordinated Earth observations and information services to facilitate well-informed decisions.

- China GEO will promote the implementation of **GEOCRI** actively.



China's Engagement in GEO & GEOSS

Thank you !

