



# **CEOS Overview / Plans**

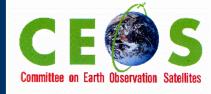
The 4th International Implementation Planning Meeting for CEOP & the 1st IGWCO Workshop

> February 28, 2005 Tokyo, Japan

Yoji Furuhama Japan Aerospace Exploration Agency (JAXA)





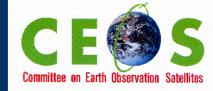


1. Overview 2. CEOS & IGWCO/CEOP 3. CEOS Task Force 4. Future Role 5. Summary

The 4th International Implementation Planning Meeting for CEOP & the 1st IGWCO Workshop



# 1. Overview 1.1 What is CEOS ?



## <u>CEOS = "Committee on Earth Observation Satellites"</u>

An international coordinating mechanism charged with coordinating international civil space-borne missions designed to observe and study planet Earth.

Individual participating agencies make their best efforts to implement recommendations.



Created in 1984

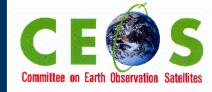
Recognizing the multidisciplinary nature of satellite EO and the value of coordination across all proposed missions.

G7 of Industrialized Nations Working Group on Growth, Technology, and Employment's Panel of Experts on Satellite Remote Sensing





# 1.2 Purpose of CEOS



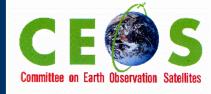
- 1) To optimize benefits of space-borne Earth observation
- 2) To serve as a focal point for international coordination
- 3) To exchange policy and technical information to encourage **complementarity** and **compatibility** of observation and data exchange systems



- I. To ensure the following points;
  - Critical scientific questions relating to EO and global change are covered
  - Satellite missions do not unnecessarily overlap each other
- II. Maximum use of satellite observation data



## 1.3 Participants



#### **MEMBERS** : 24 Governmental organizations

 Responsible for a civil spaceborne Earth observation program (currently operating or at least in Phase B or equivalent of system development)

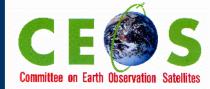
Organization	H.Q. Location	Organization	H.Q. Location	Organization	H.Q. Location
ASI	Italy	EC	Brussels	NOAA	U.S.
BNSC	U.K.	ESA	Paris	NRSCC	China
	* Current Chair	EUMETSAT	Germany	(National Remote Sensing Center of	
CAST	China	INPE	Brazil	China)	
CNES	France	ISRO	India	NSAU	Ukraine
CONAE	Argentina	KARI	Korea	ROSHYDROMET	Russia
CSA	Canada	MEXT/JAXA	Japan	Rosaviakosmos	Russia
CSIRO	Australia	NASA	U.S.	SNSB	Sweden
DLR	Germany	NASRDA	Nigeria	USGS	U.S.

ASSOCIATES : 21 Governmental organizations or Satellite coordination groups which currently have one of the followings

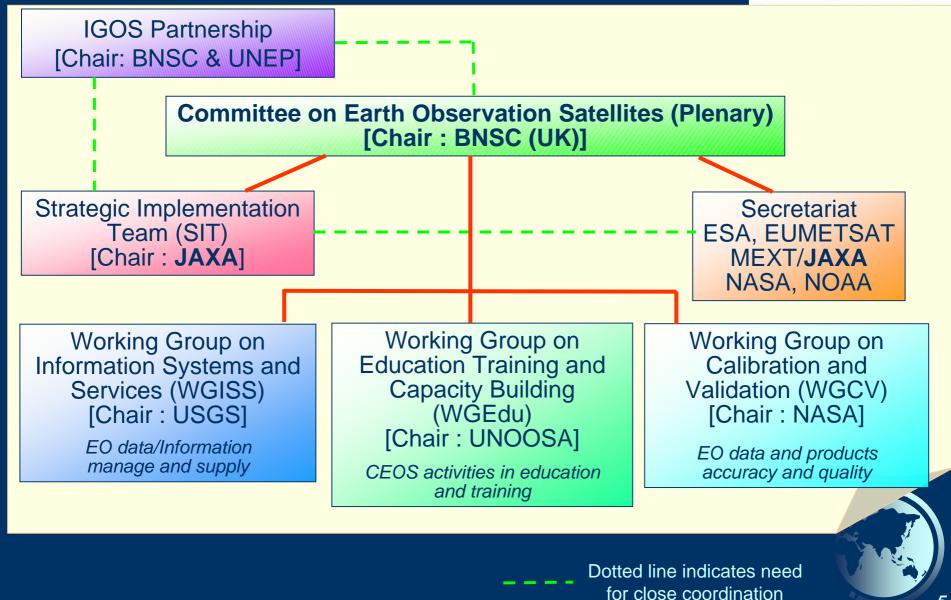
- A civil space-segment activity in Phase A/pre-Phase A or equivalent of system development
- > A significant ground-segment activity that supports CEOS objectives
- > A significant programmatic activity that supports CEOS objectives.



## 1.4 Structure

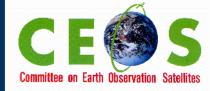


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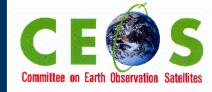
# 1.5 Roles of SIT

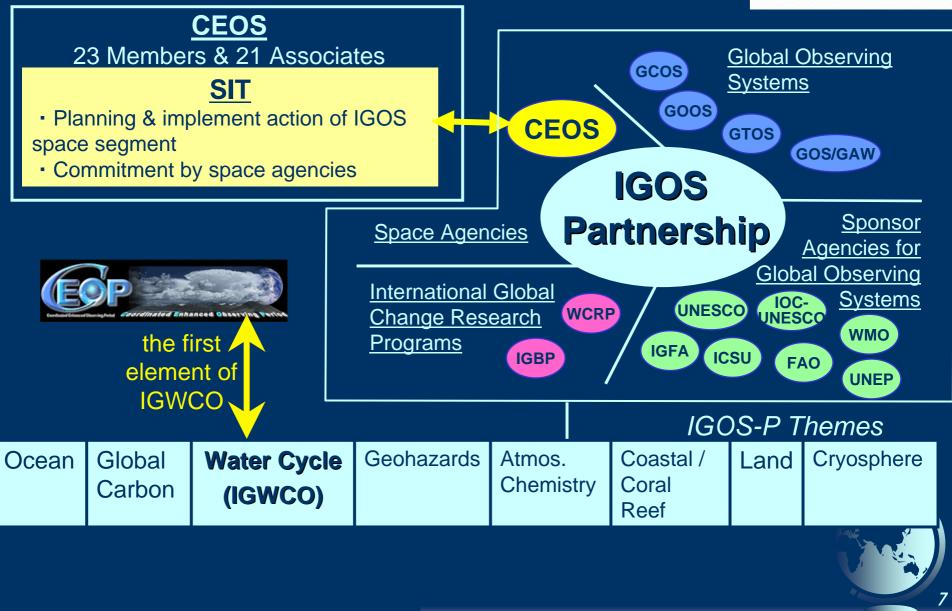


- For each IGOS-P Theme, seek commitments to cover the needs of the Theme, and monitor the realisation of the commitments;
- When a Theme has reached Implementation stage, ensure that there is an appropriate space component representative in each Theme's Implementation Team.
- Achieve greater synergy between the research satellite and operational satellite communities in building to develop future generation operational monitoring capabilities.

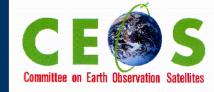


## 2. CEOS & IGWCO/CEOP









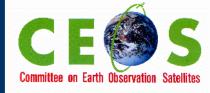
## Set up at 18th CEOS Plenary (November 2004, @Beijing)

#### **Main Purpose**

To investigate and to make recommendations on the mechanisms, which would allow CEOS to undertake the role of co-ordinating spacebased observations for GEO.



# **4. Future Role**



## **CEOS** should offer:

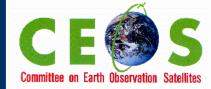
- its services to GEO for coordination of space components of GEOSS required by the GEOSS Annual Workplan.
- the services of its working groups in support of GEOSS objectives.

## And it is suggested that

SIT would need to be capable of monitoring the commitments of members to both IGOS-P Themes and to the social benefit areas in the GEOSS 10-Year Implementation Plan, and to encourage specific gaps to be filled.



# **5.** Summary



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CEOS has played a major role in establishing the IGOS-P and is contributing to the implementation of space segment of the IGOS-P Themes.

CEOS intends to serve as a primary body for coordinating space-based observations of the GEOSS.

CEOP is the first element of Integrated Global Water Cycle Observation (IGWCO) in the IGOS-P themes.