

Update to CEOS WGCV Plenary on Constellation tasks

May 2009

Greg Stensaas (USGS)

CEOS WGCV vice chair

16:00 Constellation interactions with WGCV (Stensaas)

- 16:15 LSI (Bailey)
- 16:30 Oceans (Johnson)
- 16:45 Others
- 17:00 Round-up discussion on Constellation commitments
- **17:30 Close**
- **20:00 Hosted Dinner**

Coordination and cooperation to achieve the GEOSS space segment

National and regional Earth Observation will continue to dominate space agency spending.

CEOS promotes coordination between member organizations and cooperation in the development of Earth observing satellites.

A “**CEOS Virtual Constellations**” concept is an approach to facilitate agreements, develop standards, and address shortcomings in the international planning process. The results will help secure resources from space agencies for space-based implementation of Earth observations, all without eroding the independence of individual agencies.

CEOS Constellations

- **Atmospheric Composition (AC)**(NASA)
- **Precipitation Constellation (PC)**
(NASA/JAXA)
- **Ocean Surface Topography (OST)**
(NOAA/EUMETSAT)
- **Land Surface Imaging (LSI)** (USGS/ISRO)
- **Ocean Surface Vector Wind Constellation (OSVW)** (*NOAA, EUMETSAT, ISRO*)
- **Ocean Color Radiometry Constellation (OCR)**

CEOS Constellation history

- CEOS recommended 4 constellation pilot studies in late 2005. The formal work plans for each constellation team was approved in late 2006
 - **Atmospheric Composition** (NASA)
 - **Precipitation** (NASA/JAXA)
 - **Ocean Surface Topography** (NOAA/EUMETSAT)
 - **Land Surface Imaging** (USGS/ISRO)
- Additional approved constellations by CEOS
 - **Ocean Surface Vector Wind Constellation (OSVW)** (*NOAA, EUMETSAT, ISRO*)
 - **Ocean Color Radiometry Constellation (OCR)**
- Promotes contribution to GEO observational requirements (GEOSS 10-year Implementation Plan)
- Promotes synergies among national and regional satellite programs
- Promotes common systematic guidelines and standards
- Promotes coordinated user requirements for future system architectures and optimal end-to-end capabilities

WGCV Constellation Ideas and Support

- **Discussion**
 - **WGCV support and WGCV poc of each constellation**