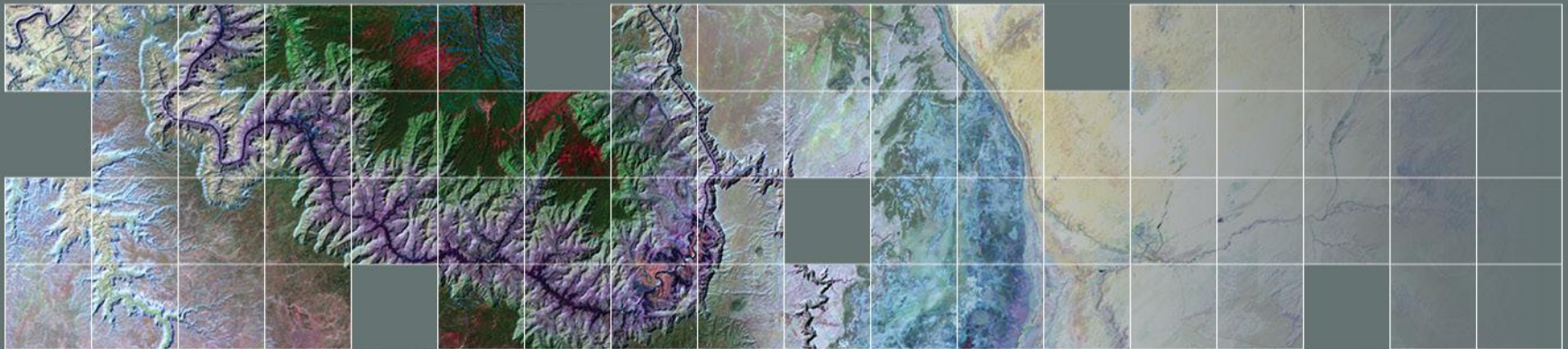


Climate and Land Use Change  
**Earth Resources Observation and Science (EROS) Center**

**CEOS WGCapD Activity:**  
*Regionally Focused Webinar Series*



# Overview

---

1. Background
2. Why Webinars
3. Webinars

# 1. Background (WG Edu to CapD)

---

- WGEdu conducted traditional workshops
- Plenaries began driving change with one issue being our method of capacity building
- Eventually, this new working group - WGCapD

**“CEOS Agencies continue to support the GEO Data Democracy Initiative through a newly-reconstituted CEOS Working Group on Capacity Building and Data Democracy (WGCBD). “**

***CEOS WGCCBD Study Team  
November 7, 2011***

# 1. Background (WGCapD)

---

- Working on the synergies among projects presented and the above criteria, the following project proposals were approved (Ilhabela, 2012):
  - **E-Learning Course** [Lead: INPE]
  - **Webinars** [Lead: USGS, Timeline: TBD,]
  - **DEM Development Workshop** [Lead: NOAA]

## 2. Why Webinars

---



*Webinar = internet **web**-based seminar*

- Cost (travel, facilities, etc.)
- Number of people “reached”
- Another way people expect to receive information
- Acceptable to “change agents”

# 3. Webinars

---

## ■ Scheduling of implementation

- Following informal confirmation of demand
- Following CEOS (INPE) eLearning course 
- Following the reaching of a critical threshold of content and presenters (inventories, establish collaborations) 

(  = *remains to be completed* )

- What are they
- Who presents them
- Audience
- Mechanics

# 3. Webinars

---

- Scheduling
- **What are they (in the CEOS context) ?**
  - Threads (forests, food security, disaster, climate change impacts, etc.)
  - Emphasizing datasets and tools from CEOS members
  - Libraries/archives of members with existing webinar series (e.g., NOAA, EUMETSAT)
  - Libraries/archives of regional collaborators
- Who presents them
- Audience
- Mechanics





## THE GLOBAL EARTH OBSERVATION SYSTEM OF SYSTEMS





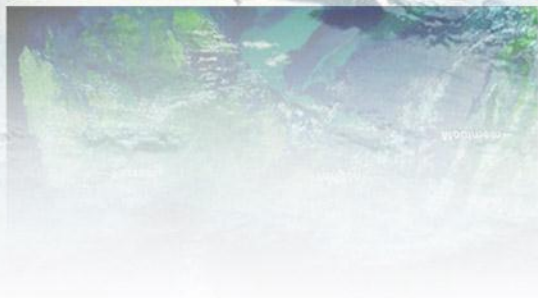
International Workshop on

# Remote Sensing for Disaster Management in SE Asia



Working Group on Training  
and Education (WGedu)

Feb. 4-6, 2009 GISTDA, Bangkok, Thailand

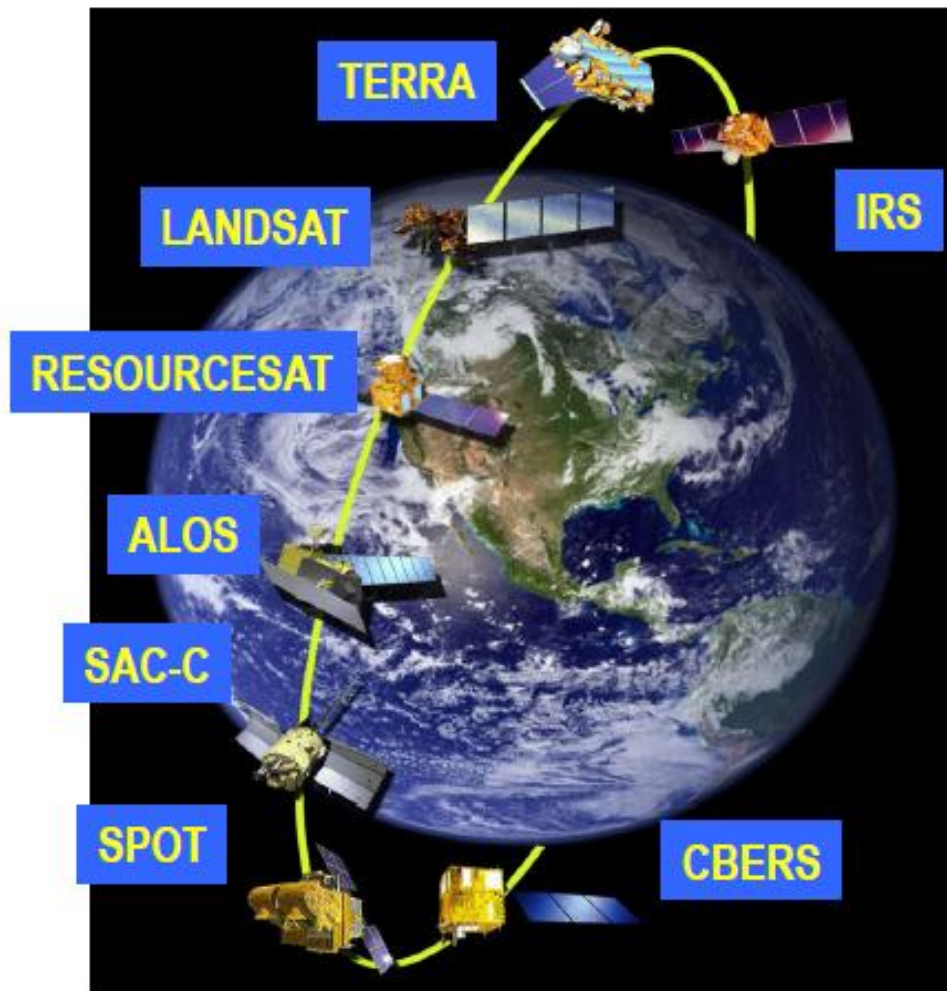


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# Access to Imagery with the Land Surface Imaging Constellation (CEOS)







Monitoring weather and climate from space

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Home > Data & Products > How to Use Our Products > Online Training Library

DATA & PRODUCTS Online Training Library

- ▶ Product Navigator
- ▶ Satellite Data
- ▶ Atmosphere
- ▶ Marine
- ▶ Land
- ▶ Climate
- ▶ Formats
- ▶ Software Products
- ▶ Calibration



A number of training sessions in the area of meteorology, oceanography, hydrology and land applications are freely available as online training sessions. These sessions are primarily for meteorology professionals. However, several sessions are also suitable for high school and university students.

The training sessions are available in a wide variety of formats, including PowerPoint, Flash, HTML, ▶ **VisitView** and various video formats — many of which are supplemented with audio commentary. Some of these sessions were developed in partnership with: ▶

MetEd, ▶ EUMeTrain, ▶ ePort and ▶ EUMETCAL.

**EUMETSAT course participants:** please use the course drop-down menu to access and download the course lectures.

**Note:** We recommend a fast internet connection due to large file sizes in some sessions.

Category	Topic	Keywords	Language
--all--	--all--	--all--	--all--
Format	Author	Year	Duration
--all--	--all--	--all--	--all--
Course	Audio	Level	Product
--all--	--all--	--all--	--all--
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117 results found

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- ▶ Schedule
- ▶ Virtual Laboratory
- ▶ Workshops & Courses
- ▶ Projects and Resources
- ▶ Meteosat Data Collection Services
- ▶ Third Party Products
- ▶ Resources

	<b>Title</b>
	ASMET 6: 2009 Drought in East Africa
<b>Author(s)</b>	ASMET Team
<b>Last Update</b>	17 January 2012
<b>Language(s)</b>	English
<b>Description</b>	▶ PDF
<b>Audio</b>	No
<b>Duration</b>	60 min

	<b>Title</b>
	ASMET 6: Flooding in West Africa
<b>Author(s)</b>	ASMET Team
<b>Last Update</b>	10 January 2012
<b>Language(s)</b>	English
<b>Description</b>	▶ PDF
<b>Audio</b>	No
<b>Duration</b>	45 min



University Corporation for Atmospheric Research

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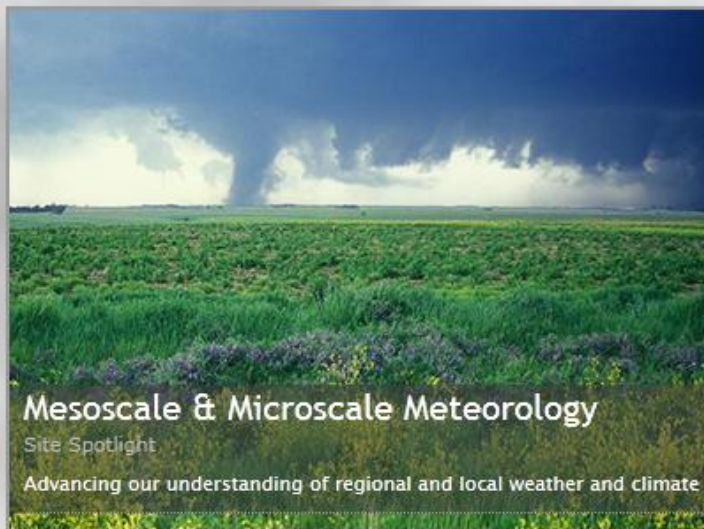
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Real-time Weather



## Mesoscale & Microscale Meteorology

Site Spotlight

Advancing our understanding of regional and local weather and climate



### Steroids, baseball, and climate change

Feature Story



### Zooming in: wild and mild weather

UCAR Digital Image Library



### Recovering energy and cultural resources

Profiles in Science



### Mesoscale & Microscale Meteorology

Site Spotlight

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## NCAR & UCAR News



### Scientists deploy lasers, GPS technology to improve snow measurements

February 13, 2012 – Scientists are working to solve a critical wintertime weather mystery: how to accurately measure the amount of snow on the ground.



### Study may answer longstanding questions about Little Ice Age

January 30, 2012 – Volcanic eruptions and resulting changes to sea ice and ocean currents may be the cause.

more >

## Noteworthy



Recent national & international awards to staff

## Opportunities

### Jobs at NCAR & UCAR

Visitor Programs, Internships, Fellowships  
UCAR Update for Faculty+Students

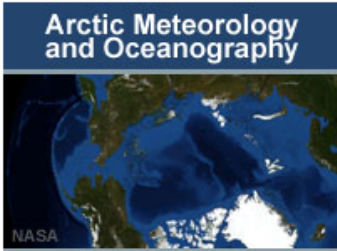
## COMET/METED Links

- [MetEd Home](#)
- [COMET Home](#)
- [Getting to COMET](#)

## [Copyright Disclaimer Notice](#)

## Latest MetEd publication

[Arctic Meteorology and Oceanography](#)



Diminishing sea ice has opened the Arctic to navigation and operations like never before. Forecasters are increasingly predicting weather in support of those operations. This module is intended to provide forecasters with a brief introduction to the Arctic, including its geography, climatology, and the forecast problems they are likely to encounter. The module follows a U.S. Coast Guard Cutter on a voyage from Dutch Harbor, in the Aleutian Islands, to Barrow, on the north coast of Alaska. Various topics are addressed along the way in a series of short, stand-alone lessons.

[Source site...](#)

## Calendar

Welcome to the COMET Classroom site! This website is used in support of COMET residence and virtual courses.

**PLEASE NOTE: These courses are not open to the general public.** Invitations to these courses are initiated through sponsoring agencies. If you are a member of a sponsoring agency, please contact your training department for more information.

Course dates are listed on the right hand side of the page. Course descriptions can be found by clicking on the blue 'i' next to the course title in the course listings below.

Please send an e-mail to [class\\_admin@comet.ucar.edu](mailto:class_admin@comet.ucar.edu) if you have any questions!

Below are instructions on how to use this site. Additional details will be sent once you have been invited to participate in a course.

 [How to use the COMET Classroom Site](#)

## Course categories

### **2012 Courses**

[AP/EB 2012](#)

[Satellite Science Week Meetings](#)

[COMET Advisory Panel Virtual Meeting January 12, 2012](#)

[Flash Flood Hydrology/QPE Residence Course \(13-15 March 2012\)](#)



### **2011 Courses**

#### **COMET Courses**

[Aeronautical Continuing Professional Development Course - MAIN SITE \(Sept 2011 - May 2012\)](#)



— [Unit 1: Review of Tropical Meteorology Fundamentals](#)



— [Unit 2: Satellite Interpretation in the Tropics](#)



— [Unit 3: Radar](#)



— [Unit 4: Interpretation and Use of NWP Mesoscale Models](#)



[Advanced Climate Variability and Change Residence Course \(15-17 November 2011\)](#)



[WMO Pacific Region Basic Hydrologic Sciences \(Oct 2011\)](#)



 **[WMO Train the Trainer Workshop](#)**





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### Welcome to ASMET

The ASMET (African Satellite Meteorology Education and Training) project produces online and CD-based learning modules that teach African forecasters how to enhance their forecasts by making better use of meteorological satellite images and products. The modules are produced by the ASMET team, which consists of meteorology instructors from the South African Weather Service (Pretoria) and the Regional Training Centers (RTCs) in Kenya and Niger, a project manager from EUMETSAT, and an instructional designer from The COMET<sup>®</sup> Program (UCAR, Boulder, CO, USA). The project is funded by EUMETSAT (Germany) and managed by EUMETSAT and COMET.

The ASMET library contains the following modules. For more information on any of them, select the ASMET Modules link in the menu.

- ASMET Phase II (online and on CD)
  - Satellite Precipitation Products for Hydrological Management in Southern Africa
  - Flooding in West Africa
  - 2009 Drought in East Africa
- ASMET 5 Case Studies (online and on CD, in English and French)
  - Secondary Lows Behind Frontal Systems
  - Duststorms
  - Cloud Clusters
- ASMET 4: Tropical Cyclones over the Southwest Indian Ocean (online and on CD, in English and French)
- ASMET 3: Combining Satellite Imagery and Model Output in Weather Forecasting (CD only, in English and French)
- ASMET 2: Integrating Satellite Imagery of the ITCZ into Analyses (CD only, in English and French)
- ASMET 1: Satellite Meteorology in Africa (CD only, in English and French)

For information about the ASMET project and to obtain CDs for any of the modules, email [ops@eumetsat.int](mailto:ops@eumetsat.int)

*Last updated: January 2012*



# 3. Webinars

---

- Scheduling
- What are they
- **Who presents them**
  - A CEOS activity , not inventory of member activities
  - Nonetheless, mostly scientists and “presenters” from CEOS member agencies
  - Regional collaborators (LA, Africa, Asia)
  - CEOS training (e.g. eLearning course, SRTM workshop)
  - Build capacity of both presenters and users
- Audience
- Mechanics

## Module 3 – Data and Tools

### Week 7 and 8 – April 1 to 14

- **Lead:** [Laércio Namikawa](#)  
**Datasets Access:** satellite images & software
  - **INPE ([Laercio Namikawa](#))**
    - CBERS Images Catalog
    - Usage Examples (applications)
    - SPRING GIS and TerraView
  - **USGS/NASA ([Eric Wood](#))**
    - LANDSAT Image Catalog
      - *Use of the new Landsat Look product (full resolution 3 band browse image).*
    - Usage Examples (applications)
  - **NOAA ([Andrew Heidinger](#))**
    - MODIS
    - Usage Examples (applications)
  - **CONAE ([Sandra Torrusio](#))**
    - SAC-C and SAC-D data
    - Usage Examples (applications)
    - Free software – SOPI (Josefina Otero)
  - **IRD/CNES ([Laurent Durieux](#))**
    - [InterImage](#) (INPE/IRD/CNES)
    - Usage Examples (applications)
    - [Orfeo Tool Box](#)
  - **SANSA ([Nale Mudau](#))**
    - [SumbandilaSat](#) imagery
    - Usage Examples (applications)

Module from  
“**Introduction  
to Remote  
Sensing  
Technology  
for  
Educators**”  
(CEOS eLearning  
course)

# 3. Webinars

---

- Scheduling
- What are they
- Who presents them
  
- **Audience**
  - Under-served communities
  - Regional science communities
  
- Mechanics

# Under-served Communities

---

- Regional focus for developing countries (government, academic research agencies, and national NGOs)
- Wide range of International NGOs
- Specific groups in developed countries (e.g., Native Americans, indigenous communities, student researchers, etc. )

# 3. Webinars

---

- Scheduling
- **What are they**
- Who presents them
- Audience
  
- **Mechanics**
  - Web conferencing software ( one platform all vs. presenter's agency software ?)
  - Staging webinar archive on CEOS WGCapD website



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# Staging on CEOS WGCapD Website



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- WGCapDHome
- CEOS Home
- Current Activities
- Meetings
- Members
- Documents
- Resources
- Access to Data

- CEOS Main
- CEOS Home
- Self Study
- Background
- Organization
- Members & Associates
- Meetings
- Actions
- Documentation
- Publications/Governing Docs
- Contacts

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The Committee on Earth Observation Satellites (CEOS)

Like 268

## WGCapD - Data Democracy

The 25th CEOS Plenary held in Lucca, Italy, approved the formation of the new Working Group on Capacity Building and Data Democracy and its final terms of reference. The plenary also approved of the INPE and NOAA proposals to have Hilcéa Ferreira (INPE), serve as the Chair of the WG and Jacob Sutherland (NOAA) serve as the Vice-Chair of the WG.

Based on the four pillars of the Data Democracy Mission, WGCapD's target is to unify CEOS efforts toward:

1. Providing wider and easier access to Earth Observation data.
2. Increasing the sharing of software tools such as the use of open source software and open systems interface.
3. Increasing data dissemination capabilities, transferring relevant technologies to end users, and
4. Providing intensive capacity building, education, and training (including awareness and outreach) for enabling end users to gather the information they need and for increasing communication on achieved results.

### WGCAPD Mission

The WGCAPD will build upon the CEOS Data Democracy Initiative in an effort to increase the capacity of institutions in less developed countries for effective use of Earth Observation data for the benefit of society and to achieve sustainable development. The WGCAPD will focus and unify CEOS efforts toward providing wider and easier access to Earth Observation data, increasing the sharing of software tools such as the use of open source software and open systems interface, increasing data dissemination capabilities, transferring relevant technologies to end users, and providing intensive capacity building, education, and training.

### WGCAPD Objectives

The overall objective of the WGCAPD is building capacity for the effective use of Earth Observation data as well as providing wider and easier access to those data.

Specific objectives include:

- Establish effective coordination and partnership among CEOS agencies and institutions offering education and training in Earth Observation – The WGCAPD will facilitate activities that substantially enhance international education and training in Earth



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August 2012
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# Questions?

Eric C. Wood  
woodec@usgs.gov