



# UPDATE ON THE SPACE EDUCATION PROGRAMME

***49<sup>TH</sup> COPUOS, Vienna, Austria***

Yolanda Berenguer  
Space Education Programme Coordinator  
E-mail: [y.berenguer@unesco.org](mailto:y.berenguer@unesco.org)



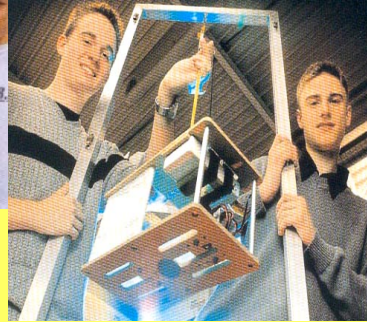
# SPACE EDUCATION PROGRAMME (2002)

- Promotes the enhancement of space-related subjects and disciplines in schools and universities
- Assists in providing teachers/educators opportunities to improve knowledge and develop skills in space-related areas (eg, providing to pedagogical materials appropriate to their needs)
- Raises public awareness of the important contribution of space-based system to the development of society

*Contribute to the preparation of the next generation of space workforce*

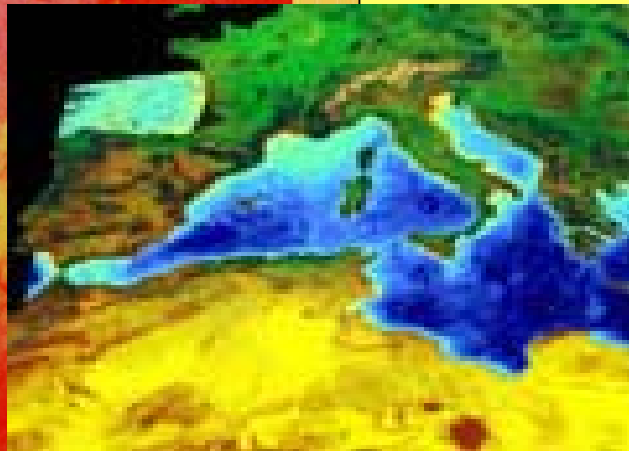


# SPACE SCIENCE



(IOC)

# SPACE & AERONAUTIC ENGINEERING



# SPACE TECHNOLOGY APPLICATIONS



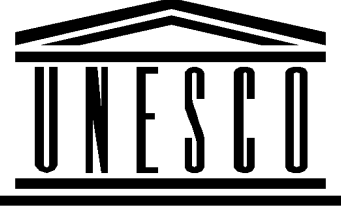
- Organize space education workshops

Target audience: Students and teachers at secondary level

- Team of space experts (CNES, JAXA, NASA, Armagh Planetarium, ALOMAR Laboratory, China Remote Sensing Centre)
- Portable telescopes (Meade Instruments Co & National Space Society "Permission to Dream" initiative)
- Pilot "National Space Education Programme"

Involvement of the country's National Commission for UNESCO (Ministry of Education, Science & Technology), local/national planetaria, observatories, science centers, museums, space-related NGOs

SEP



- Space education workshops

Philippines, October 2004

Nigeria, May 2005

Colombia, Oct/November 2005

Vietnam, March 2006

Tanzania, September 2006

2007: Syria

Ecuador

Fiji (tentatively)

Tertiary, post-graduate level:

Cooperate with training centres and universities that organize post-graduate courses in earth sciences and remote sensing/GIS and space-related disciplines, eg ITC, ISU, UAM, GFZ

Primary level: Awareness-raising (contests)

SEP



UNESCO, Chair (2006-2007)  
CEOS Working Group on Education, Training  
and Capacity Building (WGEdu)

Educational activity, November 2006  
CEOS plenary, Argentina

IAF Space and Education Outreach Committee

Space exploration education workshop,  
4 October 2006, IAC, Valencia Spain

Asia-Pacific Regional Space Agency Forum

Space education event, Jakarta  
November 2006

SEP



## 2006 GEO WORK PLAN

**CB-06-01:** Perform a review of capacity building initiatives in GEO Members and Participating Organizations, taking into account results of existing surveys, to identify existing and planned capacity building activities and gaps.

**CB-06-03:** Perform a review of existing education and training initiatives for Earth Observation utilization in developing countries and promulgate the use of best practices in cooperation with specialized UN agencies.











UNESCO is the lead agency for the UN Decade on Education for Sustainable Development (2005-2014)

SPACE STUDIES



QUALITY EDUCATION

Critical thinking

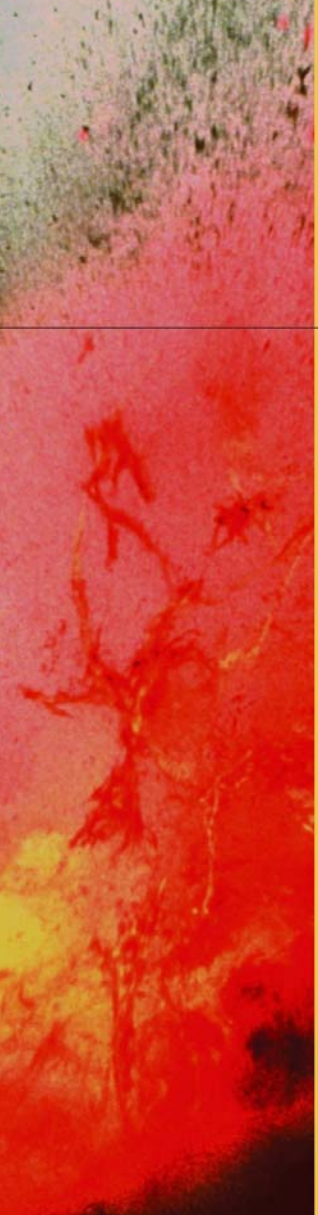
Problem solving skills

Participatory decision-making

E  
C  
O  
N  
O  
M  
Y

S  
O  
C  
I  
E  
T  
Y

E  
N  
V  
I  
R  
O  
N  
M  
E  
N  
T



2009: International Year of Astronomy