

***Regional Centres for Space Science and
Technology Education – Affiliated to the
United Nations***

Antonella Bini
ICG Executive Secretariat
Office for Outer Space Affairs
United Nations Office at Vienna

**United Nations/United Arab Emirates/United States of America
Workshop on the applications of Global Navigation Satellite Systems**

16 – 20 January 2011

Dubai, United Arab Emirates

Outline

- Mandate
- Objective
- Regional Centres
- ICG Information Centres

Mandate

United Nations General Assembly, resolution 45/72 of 11 December 1990

“... the United Nations should lead, with the active support of its specialized agencies and other international organizations, an international effort to establish regional centres for space science and technology education in [...] developing countries.”

(A/AC.105/456, annex II, para. 4 (n))

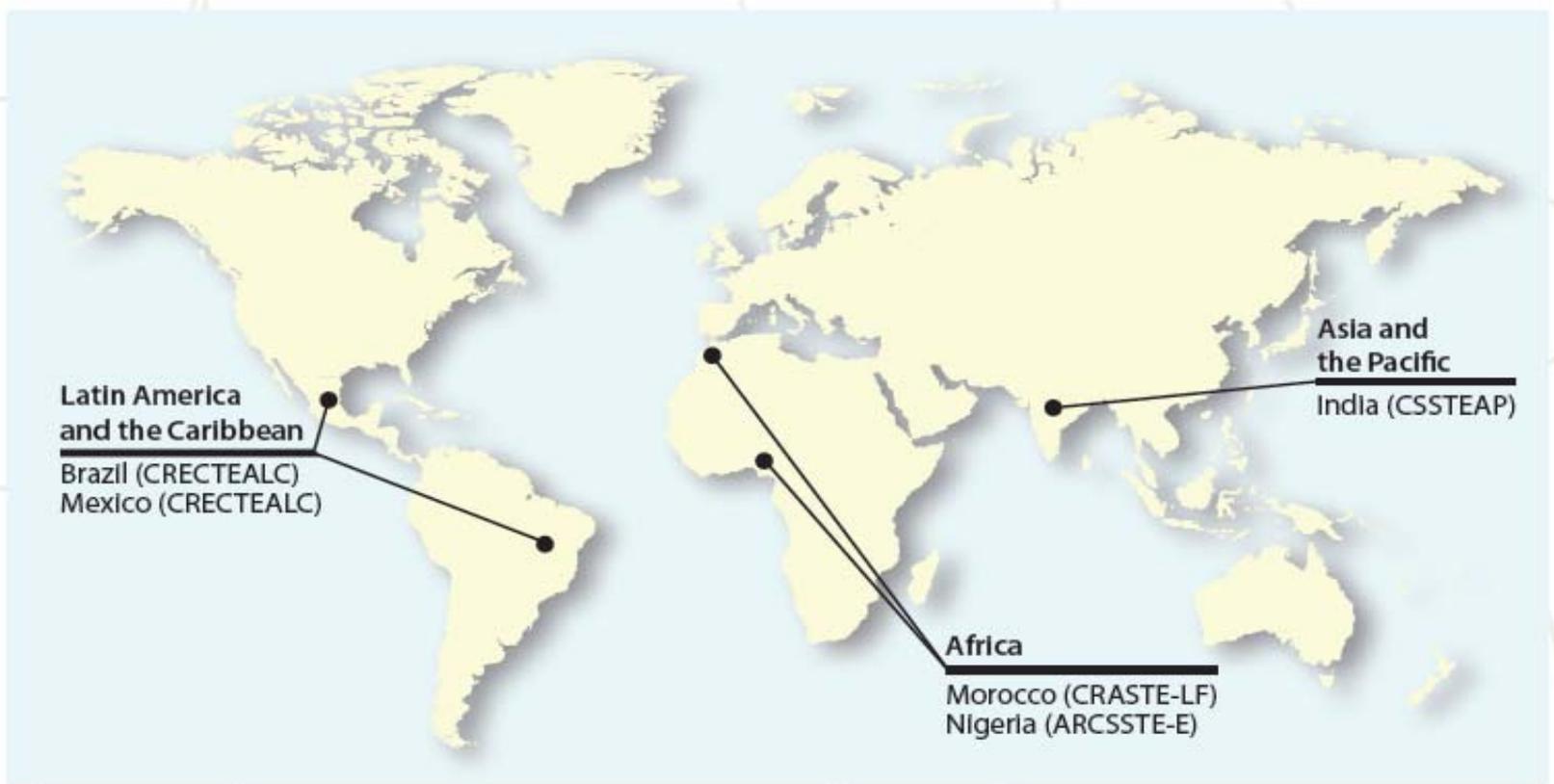
United Nations General Assembly, resolution 50/27 of 6 December 1995

“... these centres be established on the basis of affiliation to the United Nations [...] and that such affiliation would provide the centres with the necessary recognition and would strengthen the possibilities of attracting donors and of establishing academic relationships with national and international space-related institutions.”

Objective

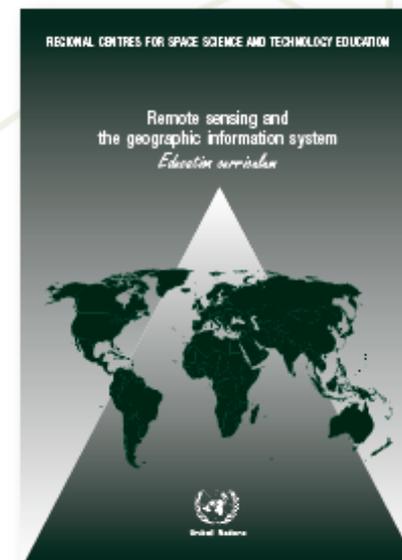
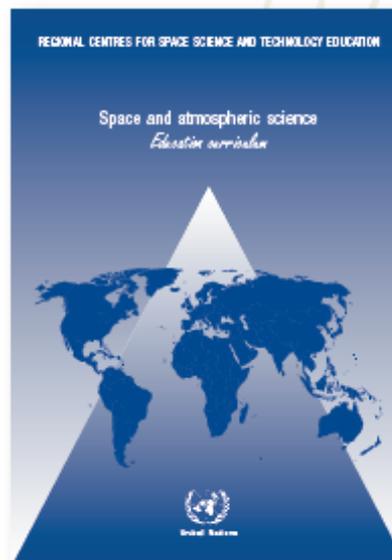
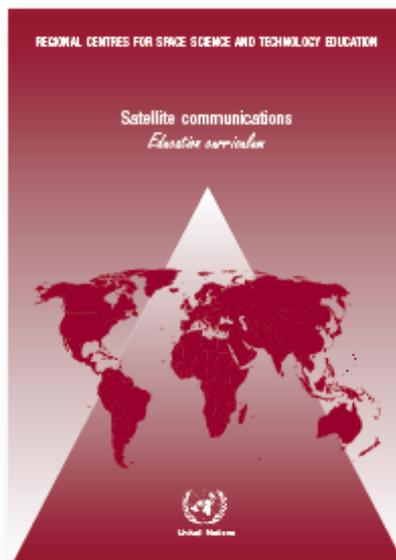
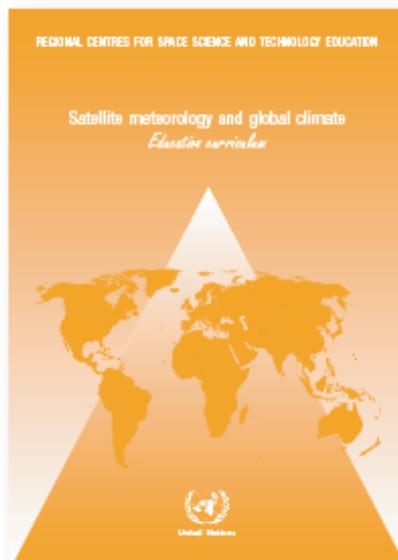
to enhance, through in-depth education, the capabilities of Member States, at the regional and international levels, in various disciplines of space science and technology that can advance their scientific, economic and social development

Regional Centres for Space Science and Technology Education affiliated to the UN



<http://www.unoosa.org/oosa/en/SAP/centres/index.html>

United Nations Education Curricula



Education curricula and education modules have been and are being developed for

- Remote Sensing and Geographical Information Systems
- Satellite Communications
- Satellite Meteorology and Global Climate
- Space and Atmospheric Sciences as well as data management
- *In preparation: Space Law, GNSS*

UNITED NATIONS
OFFICE FOR OUTER SPACE AFFAIRS

**Capacity building
in space science and technology**

*Regional Centres for Space Science and Technology Education
Affiliated to the United Nations*




UNITED NATIONS

<http://www.unoosa.org/oosa/en/SAP/acompl.html>

Centre for Space Science and Technology Education in Asia and the Pacific



CSSTEAP HQ
Dehra Dun, India

<http://www.cssteap.org/>

- 15 Member Countries
- 31 nine-month postgraduate courses
519 participants from 27 countries in
the Asia-Pacific region
- 20 short-term courses/workshops
and awareness programmes, 342
participants
- **International Training Course on
Satellite Navigation and Location
Based Services (18 June - 18 July
2008, Ahmedabad, India)**

Regional African Centre for Space Science and Technology Education in French Language



- 13 Member Countries
- 9 long-term programmes, 150 participants from 17 countries in the African region
- 12 workshops and training courses
- **Training Course on Satellite Navigation and Location Based Services, (28 September - 24 October, 2009, Rabat, Morocco)**

CRASTE-LF

Rabat, Morocco

<http://www.enssup.gov.ma/craste>

African Regional Centre for Space Science and Technology Education - in English



ARCSSTE-E
Obafemi Awolowo University Ile-Ife,
Nigeria
<http://www.arcsstee.org>

- 14 nine-month postgraduate courses with about 120 participants from 15 countries in the African region
- 10 short-term courses/workshops and seminars
- **Training Course on Global Navigation Satellite Systems and Location Based Services (4-29 October 2010, Ile-Ife, Nigeria)**

Regional Centre for Space Science and Technology Education in Latin American and the Caribbean

- 2 member countries
- 14 nine-month postgraduate courses, 253 participants from 12 countries (2008)
- 14 workshops, short courses, seminars
- **Training Course on the Use of GNSS for Development** (16 - 20 November, 2009, Tonantzintla, Puebla, Mexico)
- **Galileo Information Center**



Campus in Brazil

<http://www.inpe.br/crs/crectalc.php>



Campus in Mexico

<http://www.crectalc.org/>



Galileo INFORMATION CENTER
FOR LATIN AMERICA

[\(http://www.galileoic.org/\)](http://www.galileoic.org/)

Created and hosted by CRECTEALC in 2005

WHAT IS IT:

◆ **Virtual Platform of Galileo information**

MISSION:

to implement information and training activities and to facilitate interaction between GNSS actors in Latin America and Europe

HOW:

- ◆ Focal point for the promotion of GALILEO services and applications in the region
- ◆ Advertising courses, trainings, activities carried out in the region and latest news on GNSS
- ◆ Fostering international cooperation in GNSS

ICG Information Centres

The Third Meeting of the International Committee on Global Navigation Satellite Systems (ICG) (Pasadena, USA, 8 - 12 December 2008) recommended that the Regional Centres on Space Science and Technology Education affiliated to the United Nations should act as the ICG Information Centres with the aim to:

- promote the GNSS applications
- disseminate information on GNSS technology and ICG initiatives
- conduct outreach/educational activities for GNSS technology



Office for Outer Space Affairs
United Nations Office at Vienna



International Committee on
Global Navigation Satellite Systems

Secretariat of the
International Committee on
Global Navigation Satellite Systems

United Nations Office for Outer Space Affairs
PO Box 500, 1400 Vienna, Austria

Phone: +43 1 26060 5479

Fax: +43 1 26060 5830

E-mail: oosea@unvienna.org

Web: <http://www.icgsecretariat.org>