



**Office for Outer Space Affairs**  
United Nations Office at Vienna



# **Objectives of the International Meeting: Carrying GNSS Activities Forward in 2005 and beyond**

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**UN/USA International Meeting on the Use and Applications of GNSS**  
**13 December 2004, Vienna**





## BACKGROUND

- × **Plan of Action of OOSA, following UNISPACE III**
  - × Training module on capacity-building in the use of global positioning and navigation systems in various areas of applications
  
- × **2001-2002: Series of UN/USA Regional Workshops and International Meeting of Experts on the Use and Applications of GNSS**
  - × August 2001, Kuala Lumpur, Malaysia, for Asia and the Pacific;
  - × November 2001, Vienna, Austria, for Central and Eastern Europe;
  - × April 2002, Santiago de Chile, for Latin America and the Caribbean;
  - × July 2002, Lusaka, Zambia, for Africa and Western Asia;
  - × November 2002, Vienna, Austria, International Meeting
  - × December 2003, Vienna, Austria, International Workshop
  
- × **Contributions to the work of the Action Team on GNSS**
  
- × **Requests for support to follow-up initiatives/activities**





# SURVEY ON GNSS FOLLOW-UP INITIATIVES 2003

- x **Global survey conducted among 300 experts from developing countries who participated in the UN/USA Regional Workshops and International Meeting on GNSS in 2001-2002**
  
- x **2001-2002: Questions asked:**
  - x Initiatives/follow-up actions undertaken
  - x Difficulties encountered
  - x Recommendations to overcome those difficulties in undertaking initiatives and follow-up actions
  
- x **Thematic areas addressed in the survey:**
  - x Surveying, mapping and Earth sciences
  - x Agriculture and management of natural resources
  - x Management of environment and natural disasters
  - x Transportation
  - x Education, training and awareness increase





# SURVEY ON GNSS FOLLOW-UP INITIATIVES 2003 (continued)

- × **Results compiled and analyzed by a group of selected experts**
  - × **Surveying and mapping: Lead: I. Fejes (Hungary)**
    - × Collaborators: R. Moyo (Zambia), R. Neilan (IGS, United States), Chee Hua Teng (Malaysia), W. Martinez Dias (Colombia)
  - × **Agriculture and management of natural resources: Lead: C. Vettorazzi (Brazil)**
    - × Collaborators: T. Ahmed-Rufai (Nigeria), J. P. Molin (Brazil)
  - × **Management of environment and natural disasters: Lead: W. Nyakwada (Kenya)**
    - × Collaborator: M. D. Subari (Malaysia)
  - × **Transportation: Lead: T. Ahmed-Rufai (Nigeria)**
    - × Collaborators: T. Hlásny (Slovakia), S. Pal (India), H. J. Matamoros R. (Colombia)
  - × **Training: Lead F. Walter (Brazil)**
    - × Collaborators: C. Vettorazzi (Brazil), C. Merry (South Africa), E. Böth (Hungary)
- × **Replies and reports made available at the web site:**  
<http://www.oosa.unvienna.org/SAP/gnss/joint2003.html>





## Results 2003 Workshop

- × **Table with proposed follow up projects/initiatives for support by OOSA; Contact persons identified by thematic areas**
  - × **Surveying and mapping:**
  - × **Agriculture and management of natural resources:**
  - × **Management of environment and natural disasters:**
  - × **Transportation**
  - × **Education and Training**
  
- × **Action Team on GNSS commented on the table (June 2004); OOSA comments on an on going basis**



## Results 2003 Workshop

### Action Team on GNSS:

Reviewed the existing and planned GNSS and augmentations, their use and applications, as well as activities carried out by various entities to promote GNSS

Examined the requirements of developing countries, gaps in meeting those requirements as well as existing training opportunities in the fields of GNSS

Recommended further actions by Member States, intergovernmental and non-governmental entities.

Recommended the possible establishment of an International Committee on GNSS (ICG) for the purpose of promoting the use and application of GNSS



## 2004 International Meeting

**The objectives of this International Meeting are to:**

**Part one:**

(1) Review progress made in implementing the recommendations of the International Workshop, held in Vienna in December 2003;

(2) Review status of follow-up projects and potential ways and means to carry them forward in 2005 and beyond;

(3) Review any follow-up initiatives and actions resulting from the series of UN/USA Regional Workshops on GNSS;

(4) Review specific recommendations of the Action Team on GNSS and possible ways and means to implement them in 2005 and beyond; and

**Part two:**

**Finalize the draft terms of reference for the establishment of an ICG**



## OOSA SUPPORT TO GNSS ACTIVITIES

- x **Organization of an international meeting**
- x **Support to the work of Action Team on GNSS, possible implementation of some of the recommendations**
- x **Promotion of integration of lectures and field work on GNSS in education curriculum and activities of the regional centres**
  - x **Model education curriculum on RS and GIS (ST/SPACE/18) already includes lectures and field work on GNSS such as:**
    - x **Lectures:**
      - x **Fundamental concepts of GPS**
      - x **Types of GNSS satellites**
      - x **Applications of GNSS in resource surveys, mapping and navigation**
    - x **Field work**
      - x **Checking of existing map coordinates**
      - x **Survey of small areas with the help of GPS receivers**
- x **Support to a few selected follow-up initiatives and projects**





## Expected results from the Meeting

### Part one:

- x **Up dated status of projects and initiatives**
- x **Plan of activities for 2005**
- x **Road map of actions to carry forward recommendations of the Action Team on GNSS**

### Part Two:

- x **Agreement on the establishment of an ICG**

