

NEWSLETTER GLOBAL MAPPING 23

Actions toward World Summit on Sustainable Development

Minoru Akiyama

Secretary-General, ISCGM

Resolution 8 of the 8th ISCGM Meeting mentions "The ISCGM recognizes the importance of the upcoming Rio+10 (World Summit on Sustainable Development) Meeting scheduled for September 2002 in Johannesburg, South Africa, and encourages members and national mapping organizations generally to brief their government agencies responsible for Rio+10 on the importance of Global Map to the objectives of the conference."

Since the Global Mapping initiative was proposed to respond to the Agenda 21 of the UNCED (Rio Summit) from Mapping sector, it is hoped that the Global Mapping will be referred in the WSSD outcomes as a successful example of actions made during this decade.

Preparatory processes for WSSD consist of national preparatory processes, regional preparatory processes and CSD10/PrepComs. Regional preparatory process

aims to conduct a regional assessment of progress, taking into account national reports and country profiles. Regional preparatory processes are ongoing in Africa, Asia and the Pacific, Europe and North America, Latin America and the Caribbean and Western Asia respectively.

Secretariat of ISCGM has prepared Briefing Materials for Rio+10 (MS Power Point and MSWord files). Please access the ISCGM Web site for downloading those materials. Actions of individual NMO through her government in the preparatory processes are highly appreciated.

ISCGM WSSD page <<http://www.iscgm.org/wssd.html>>

Mr. Hiroshi Une, GSI Japan participated in Subregional PrepCom for Northeast Asia held in Beijing, China on 28th July 2001. His report is available from the same page.

Report on the Representation of ISCGM at the UNCODI-2 Meeting

Haggai Nyapola

Director of Surveys, Kenya

The Second Meeting of the Sub-committee on Geo-information of UN Economic Commission for Africa Committee on Development Information (UNCODI) was held at Headquarters of the ECA in Addis Ababa, Ethiopia, from 4th to 7th September, 2001.

Representatives from the following member countries attended the Meeting: Algeria, Angola, Benin, Botswana, Burkina Faso, Equatorial Guinea, Sao Tome, Principe, Burundi, Cote d'Ivoire, Democratic Republic of Congo, Djibouti, Ethiopia, Kenya, Lesotho, Mali, Madagascar, Mozambique, Namibia, Nigeria, Rwanda, Senegal and Swaziland.

Observers also attended the Meeting from United Nations, USA, Europe, and International Institutions related to the disciplines of Surveying and Mapping.

The 8th ISCGM Meeting held in Cartagena, Colombia

mandated its African members to represent ISCGM at the CODI Meeting. I attended the CODI Meeting representing Kenya as well as the ISCGM.

I gave an account of the need for African Countries to participate in the development of Global Map under the Global Mapping Project in furthering the objectives of the Agenda 21 as adopted at the Rio Summit.

I explained the three categories of participation in the development of Global Map and where they can get more information including the ISCGM Secretariat and its Website. I introduced the details of the grant through Mr. Dangermond of ESRI in memory of the late Professor Estes. Arising from my presentation, which was well received by the delegates, one of the CODI-2 Resolutions of the sub-committee on Geo-information included the URGING African Countries to participate fully in the Global Mapping Project under any of the three categories.

Working Group 1 Discusses Phase 2 of the Global Map

Dr. John Kelmelis

Chief Scientist, USGS

An ad-hoc meeting of Working Group 1 (Strategic Planning) was held at the International Cartographic Conference in Beijing, China, on August 8, 2001. Representatives from five nations participated in the discussion of Phase 2 planning. Some specific changes in the global availability of geospatial information were used as a starting point for discourse. For example: V-map level-0 and partial V-map level-1 data are available on-line on the geography net; for smaller countries the 1:1,000,000-scale is not useful; a Landsat mosaic of the world (circa 1990) has been made available to the United Nations Environment Program GRID; negotiations are underway for the release of global land cover derived from that mosaic; similar mosaics (circa 1980 and 2000) are being considered for development and release; Shuttle Radar Topographic Mission data are planned for processing and future release; and Global GIS is completing Beta testing and scheduled for release on a regional basis during 2001 and 2002. Given those facts and the background material from previous Working Group 1 and ISCGM discussions, the ad-hoc group made the following recommendations.

For vector data:

- Phase 2 should have a term of five years beginning when the Phase 2 plan is accepted.
- The minimum scale of Global Map (GM) data

should be 1:1,000,000; contributions of larger scale data are acceptable if they meet GM Phase 2 specifications.

- No new layer should be introduced.
- Phase 2 specifications will be changed to reflect developments in open format specifications.
- Combined data files of more than two countries can be accepted if agreement among countries concerned is made (this is a compromise between “seamless” and “country-wise” data).

For Raster data:

- GM member organizations are encouraged to ground truth and validate data.
- The main data source for the project is satellite imagery, that is, best available data.
- A new working group should be established to determine appropriate resolution and how to best incorporate the raster data into GM. This group will also examine options to incorporate larger scale vector data into GM and determine how to work with Global GIS.

These recommendations are made to the ISCGM for its consideration.

A Brief Report on the 2nd Digital Earth Symposium

Karen D. Kline

Assistant Secretary-General, ISCGM

University of California, Santa Barbara

The Second Digital Earth Symposium was held 24-28 June 2001 in Fredericton, New Brunswick, Canada. Some of the highlights from this symposium included a keynote speech by Jack Pellicci, Oracle Corp.; a live demonstration of Digital Earth technology by Jeff de la Beaujardière, NASA; a keynote speech by Klaus Barwinski, Surveying and Mapping Agency, Northrhine-Westfalia, Germany; a keynote presentation by Bill Stoehr, National Geographic Maps; a key-

note speech by George Radwanski, Privacy Commissioner of Canada; with a closing luncheon presentation by Mick Wilson of the United Nations Environment Programme that briefly summarized the main challenges facing a variety of organizations working to utilize the data and technology currently being developed.

Two presentations were made on behalf of the Inter-

national Steering Committee for Global Mapping:

- Hiroshi Une, Shozo Kajikawa, Minoru Akiyama, Karen D. Kline, "Current Status of the Global Map Project." (presented by Karen D. Kline)
- Karen D. Kline, "An Overview of the Global Map Project: A Focus on Research Needs."

According to Wayne Walsh, Conference Director, there were almost 700 people representing 30 countries from around the world. He noted that this "symposium clearly showed that the Digital Earth vision is not just an isolated concern, but a global one."

A conference proceedings was not prepared; however,

the conference organizers are in the process of gathering the materials presented during the workshops, sessions, and poster sessions, and plan on making these materials available on the conference website.

Plans for a 3rd Digital Earth Symposium were tentatively discussed, although no details were agreed upon during this meeting.

More information on the conference can be found at the conference website, www.digitalearth.ca, including, when available, the conference proceedings.

Australian Release of Global Map

Lynette Sebo

Research and Development, Mapping and Maritime Boundaries Program, AUSLIG

The Australian component of the Global Map was released on the ISCGM web site on 28 June 2001. Australia, through AUSLIG, is a founding member and strong supporter of the ISCGM. AUSLIG General Manager, Peter Holland, is currently in the role of Interim Chair and is Vice Chairman and Australian Representative for the ISCGM.

AUSLIG's contribution to the Global Map has included significant involvement in the development of the Global Map specifications (particularly through the efforts of Alan Swift), acting as host to the 5th Meeting of the ISCGM in Canberra in 1998 and production of 1:1M vector and raster datasets for Australia and its external territories.

The undertaking of this task was a significant one in terms of the geographic extents and the significant amounts of data that required processing. The Australian continent and its external territories range approximately between 73E to 168E and -9S to -55S, this in Global Map terms consists of 81 Global Map tiles ranging from 5x5 degrees to 5x8 degrees. The final Version.1.0 vector dataset is 80 MB uncompressed and the raster dataset 151 MB uncompressed.

AUSLIG developed its 1:1M vector datasets using AUSLIG's GEODATA TOPO-250K Series 1 data consisting of 540 separate tiles after the Vector Map Level

0 data was found to be inconsistent with other AUSLIG datasets. GEODATA 1:250K tiles were generalised using automated processes based on source materials including the 1:1M World Aeronautical Charts as a guide for feature selection. Manual editing procedures followed the automated generalisation processes and all tiles for each theme were appended to form a single data set stored in ESRI ArcInfo coverage format.

Raster data for land cover, land use and vegetation was sourced through the Global Map V.0 data derived from the Global Land Cover Characterization datasets and compared with other appropriate reference material. GTOPO elevation data for Australia was obtained direct from the USGS and compared with AUSLIG's 9" DEM. Each of the raster tiles were edited using ERDAS Imagine 8.4 and saved as BIL files for resupply to GSI.

Australian Global Map data is available online from the AUSLIG web site in DIGEST and ESRI Shapefile formats. These data will be kept up to date. Data is supplied under licence at no cost and may be used without restriction for both commercial and non-commercial purposes.

More information on Australia's involvement in the Global Map can be found through AUSLIG's web site at http://www.auslig.gov.au/mapping/global_m/global.htm.

Status of Participation in Global Mapping

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As of September 25, 2001

Number of countries/regions participated in Global Mapping	86 countries/regions
Number of countries/regions considering the participation	33 countries/regions

Recent participation in Global Mapping

Name of organization	Country name	Date of participation
Direction des Travaux Geographiques et Cartographiques -Ministere de l'Equipment et des Transports	Senegal	August 1st
Instituto Geografico Militar	Chile	August 3rd

Global Map Data Released

Data Released: Australia on June 28th, Bangladesh on July 22nd

Global Map and Related Meetings

Followings are Global Map and related meetings. Information on related meetings will be highly appreciated.

2001

- **15-18 October, Nairobi, Kenya**
WSSD Regional PrepCom for Africa
- **23-24 October, Rio de Janeiro, Brazil**
WSSD Regional PrepCom for Latin America and the Caribbean
- **24-25 October, Cairo, Egypt**
WSSD Regional PrepCom for West Asia
- **25-26 October, Adelaide, Australia**
13th ISO/TC211 Plenary Meeting
- **5-9 November, Nairobi, Kenya**
5th AfricaGIS Conference
- **6-7 November, Kyoto, Japan**
The 15th Plenary Meeting of CEOS
- **8-9 November, Sofia, Bulgaria**
FIG & ICA Symposium "Geodetic, Photogrammetric and Satellite Technologies - Development and Integrated Application"
- **27-29 November, Phnom Penh, Cambodia**
WSSD Regional PrepCom for Asia and the Pacific

2002

- **28 January-8 February, New York, USA**
CSD10 2nd PrepCom
- **12-15 February, Tokyo, Japan**
13th CEOS/WGISS
- **March, New York, USA**
CSD10 3rd PrepCom
- **19-26 April, Washington D.C., USA**
XII FIG Congress & XV General Assembly
- **23-24 May, Bangkok, Thailand**
14th ISO/TC211 Plenary Meeting
- **May, Indonesia**
CSD10 4th PrepCom
- **26 August - 6 September, Berlin, Germany**
The 8th UN Conference on the Standardization of Geographical Names
- **2-11 September, Johannesburg, South Africa**
World Summit on Sustainable Development
- **September, Budapest, Hungary**
6th GSDI Conference
- **20 September, Budapest, Hungary**
9th Meeting of ISCGM

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