







# Philosophy of Global Map

National mapping organizations will participate voluntarily and make data available for use. Each mapping organization will be responsible for providing data of their territory.

National mapping organizations can provide data for a global, fundamental, consistent database for research and decision making.

### History

- The concept of Global Map began in the 1992 by the Geographic Survey Institute of Japan in response to the needs of UN Agenda 21.
- A workshop was held in 1994
- **#** ISCGM was established in 1996 with the late Jack Estes as Chair
- In 1997 a joint resolution was presented to the UN General Assembly to encourage participation of countries around the world.
- Being a cooperative endeavour, 132 countries joined the Global Mapping Project by March 2003.
- Much progress has been made to include developing nations.
- By 2007, the goal is to have complete coverage of the earth's land surface.
  iscgm.org

# Global Map Specifications

Spatial resolution: ca. 1km (equivalent to 1:1,000,000 scale)

■ 8 layers

- Vector data (point, line, area) Boundaries (Administrative/Coast), Drainage (Rivers/Lakes), Transportation (Roads/Railways/Airport), Population centers
- Raster data (grid)
   Elevation, Land Cover, Land Use, Vegetation

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Land use/cover: GLCC (Global Land Cover Characterization) = IGBP-DIS's Land Cover

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# International Steering Committee for Global Mapping (ISCGM)

- Members : 20 persons from 16 countries
- Advisors : 8 persons
- Chair: Prof. D. R. F. Taylor (Carleton University)
- Member countries and organizations
  - Australia, Bangladesh, Canada, China, Colombia, France, Iran, Japan, Kenya, Korea, Malaysia, New Zealand, Niger, South Africa, United Kingdom, USA, Eurogeographics, SCAR-GGI
- Advisory organizations
  - UN Statistics Division, UN Cartographic Section, UN Environment Program, UN University, ICA, U. S. Department of State
- Secretariat: Geographical Survey Institute, Japan

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# Organization of the ISCGM Member countries and organizations Australia, Bangladesh, Canada, China, France, India, Iran, Japan, Kenya, Republic of Korea, Malaysia, Mexico, New Zealand, Niger, South Africa, United Kingdom, USA, EuroGeographics, SCAR Liaison organizations UN Statistics Division, UN Cartographic Section, UN Environment Program, UN University, ICA, ISO/TC211 etc.

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Implementation of the project Global Map Data (Vector Data) **#** Support by United Nations Boundaries Drainage Sent recommendation letter inviting NMOs Contribution depending on capacity Level A: help creation of coverage for Level C countries in addition to their own national coverage Level B: create their own national coverage Administrative, Coast Level C: provide source materials to A countries while Transportation Population Centers developing national capacity Easy participation No participation fee Send application form with plan of data development Various benefits iscgm.org Locality and Name of Cities Roads, Railways, Airports 25





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Rivers, Lakes, Dams





















![](_page_4_Figure_5.jpeg)

# **Five Challenges**

- 1. Promoting further participation.
- 2. Increasing the applications and use of Global Map.

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- 3. Revising Global map specifications.
- 4. Promoting partnerships.
- 5. Capacity building.

## 1. Promoting Further Participation With help from liaison organisations such as ISPRS promotion of Global Map has occurred at the following meetings: Global Mapping Forum 2003, Okinawa Cambridge Conference 2003 Mapping Africa for Africans 2003, Durban. UN Cartographic Conferences Support is being offered by: National Mapping Agencies: PCGIAP and PCIDEA. Encouragement for the participation of smaller nations is accomplished through accepting data at larger scales, and by holding meetings in under represented regions. ISCGM, FIG, and GSDI will meet in Cairo, Egypt, in 2005. iscgm.org

# 2. Increasing the Applications and Use of Global Map A Web Portal is being made in cooperation with ESRI to make Global Map data more

- easily available online. # Presentations of applications and use of
- Global Map should be encouraged. Ex. GM Forum 2003.
- # Example of use:
  - GM can be used as a framework for NSDI, which is currently being done in Brazil.

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# 3. Revising Global Map Specifications

- # For smaller nations, the scale of Global Map was found to be inappropriate at 1:1 million scale.
- # Data will now be accepted at the 1:250,000 scale as well.
- # Technological changes including the revision of the tiling system, and moving towards more flexible and interoperable specifications were discussed.
- The raster dataset has also been changed such that the land cover and land use data are merged into a single dataset and a new classification system adopted.

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### 4. Promoting Partnerships

- Control of particular importance are partnerships with regional organisations that have grown out of the UN Regional Cartographic Conferences for Asia and the Pacific and PCIDEA for the Americas.
- The Committee on Development Information (CODI) of the Economic Commission for Africa and Eurographics.
- ISCGM became a member of the Joint Board of Geographic Information Societies in 2003.

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ISCGM became an ex-officio Board member of the Global Spatial Infrastructure Association in 2004.

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#### 5. Capacity Building Programs Global Mapping Partnership Program Coordination by MLIT, Japan Further strengthen partnership especially with developing countries Typical example is 5 day long GM seminar at RCMRD in Nairohi Aug. 2002, Aug 2003, Nov. 2004 The Group Training Course on Global Mapping 2 and half months long training conducted by JICA, implemented by GSI

 Started in1994, and 67 people from 36 countries completed the course

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- Grant Program by GIS vendors
  - e.g. ESRI Global Map/GSDI grant, Intergraph grant
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![](_page_6_Picture_0.jpeg)

"By having complete Global Map coverage by 2007 we will provide a spatial framework to facilitate the actions of the countries of the world both individually and collectively to conserve our fragile environment and make the development of our societies more viable and sustainable for future generations"

Cairo, Egypt, April 2005

Okinawa Declaration July 2003 iscgm.org