

D. R. Fraser Taylor
Chair, International Steering Committee for Global Mapping (ISCGM)
fraser_taylor@carleton.ca

www.iscgm.org

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Outline

- Antecedents of Global Map
- Vision, origin and purpose of Global Map
- The current status of Global Map
- Global Map and the Americas
- Global Map and disaster mitigation and management
- Conclusion

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Antecedents of Global Map

- Penck (1892) proposes 1.1 million scale International Map of the World (IMW)
- 1909: work begins
- 1913: USA withdraws
- Two world wars slow progress
- IMW taken over by UN in 1951
- 1989: project came to an end with less than half sheets completed

No clear consistent vision and manageable objectives

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The vision, origin and purpose of Global Map

- 1992: UNECD Agenda 21 Need for global environmental data to aid in decision making
- 1992: First international workshop on Global Mapping set target date for Version 0 of Global Map – the year 2000
- 1996: International Steering Committee for Global Mapping (ISCGM) established
- 1997: Global Map accepted as a formal part of the Implementation of Agenda 21 at the 19th Special Session of ECOSOC. Specifications of Global Map finalized at the first Global Map Forum
- 1998: ISCGM, with endorsement of the UN, formally invites the national mapping organizations of the world to participate in Global Map.

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Vision, origin and purposes (continued)

- Use of existing datasets for Version 0 of Global Map
- Version 0 released in 2000 to demonstrate viability of Global Map
- Support of USGS
- Capacity building support from Japan (GSI, MLIT, JICA)

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Vision, origin and purposes (continued)

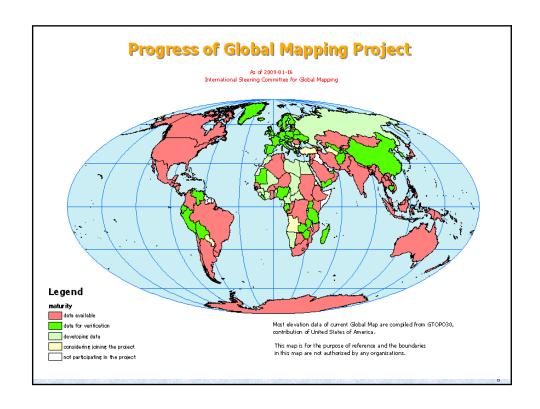
- World Summit for Sustainable Development, Johannesburg, 2002
- Global Map endorsed in the Declaration and the Implementation document
- The importance of Global Map is part of a much wider, long term commitment by the Government of Japan to provide sustainable support for environmental initiatives.

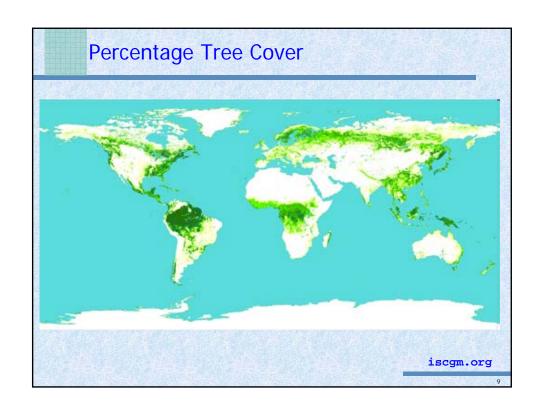
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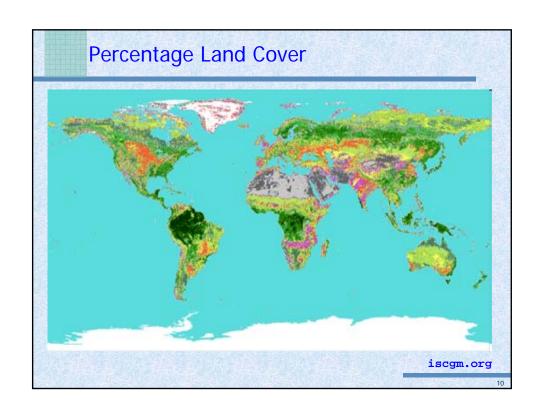
The Present Situation

- 164 countries and 16 regions participating in Global Map – 96% of existing territorial surface
- Data released for 60% of earth's surface by area and 52% by population
- Data for many other countries undergoing verification
- Version 1 of Global Map released June 5, 2008.

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Global Map and the Americas

- Mexico and Brazil early participants
- Brazil uses Global Map coverage as a framework for NSDI
- Atlas of North America (Canada, USA, Mexico)
- The Americas Map PAIGH
- Andean regional initiatives
- Territorial information system for Mesoamerica

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Global Map and Disaster Mitigation and Management

- Impact of Disasters
- 2007: 300 disasters, 236,000 deaths, 200 million people displaced or injured, \$280 billion in property and infrastructure damage (UN Report, May 17, 2009)
- Smaller scale disasters unreported or underreported - impact possibly double that reported above
- Geophysical, biological, man-made

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Disaster Mitigation and Management (continued)

- Good geoinformation required
- Data visualization, especially mapping, a basic element in all forms of disaster mitigation and management as well as risk assessment

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Disaster Mitigation and Management (continued)

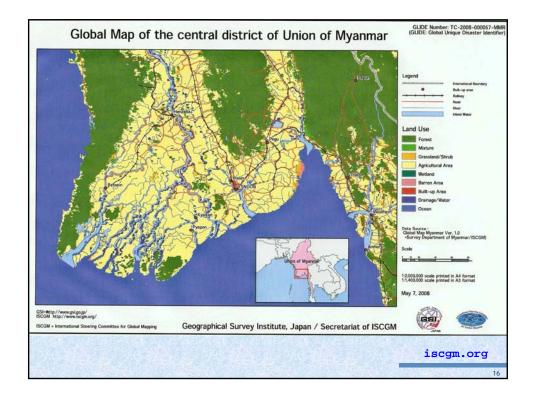
- Access to data and sharing of data of special importance
- Major problems of access to and interoperability of geospatial information
- Technical, administrative and political barriers
- Hurricane Katrina extensive geospatial information not effectively used

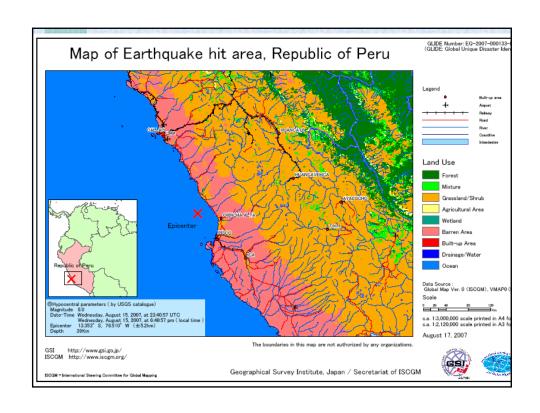
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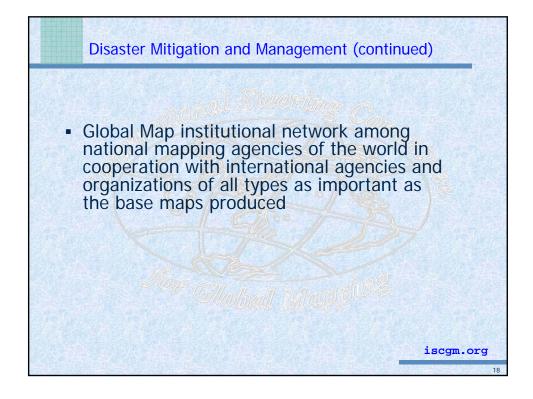
Disaster Mitigation and Management (continued)

- Global Map not initially designed with disaster mitigation and management in mind
- Increasing priority application for Global Map
- Since 2004 base maps available on UN Relief Web (UNOCHA) within 48 hours

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Conclusions

- May 17, 2009: The UN releases first ever Global Assessment Report of Disaster Risk Reduction
- Complex relationships among a variety of strategic, policy, technical, economic and institutional issues
- Concerted and integrated action required if society is to deal more effectively with disaster mitigation and management

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Conclusions (continued)

- Geoinformation a useful role to play but many challenges remain
- Greater integration of geoinformation and much easier and speedy access to data
- At the technical level more effort required to improve interoperability among datasets
- Interoperability science

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Conclusions (continued)

Some progress is being made

- Best Practices Booklet on Geoinformation for Risk and Disaster Management (JBGIS and UNSPIDER)
- Aim is "to create a decision support forum based on the knowledge and experience of experts to outline the potential uses of geoinformation technologies to governmental, institutional, and operative decision makers all over the world"
- Available 2010. Global Map will contribute.

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Conclusions (continued)

- Chinese Ministry of Science and Technology building "an emergency center for spatial data" which began in July 2007 to coordinate all organizations holding data or utility in disaster mitigation and management
- The creation of national and global spatial data infrastructures, of which Global Map is one example, will help but we need to involve all major stakeholders in the creation of NSDIs, not just those responsible for geospatial data. "We need to elevate NSDI to the highest level....NSDI is too important to be left in the hands of the geospatial community" (Jackson, Schell and Taylor, 2009)

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The Way Forward

• High quality geospatial information in an integrated, easily accessible, free or low cost format is fundamental to the effective implementation of disaster mitigation and management strategies. Global Map provides a concrete and ongoing contribution but the way forward lies in greater institutional cooperation among the various organizations involved in the geospatial sciences and increased technical efforts to make various geospatial datasets of utility to disaster mitigation and management much more interoperable.

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The Way Forward (continued)

 Considerable progress is being made in the latter area but effective institutional cooperation at both national and international scales faces numerous political and administrative challenges.

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