Utilizing Global Map for addressing Climate Change

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What is Global Map?

- Digital Geographic Dataset
 - -Covering the whole land area of the globe
 - -With unified specifications
 - Open to the public freely downloadable for non-commercial use

Aims of Global Mapping

Global Mapping aims to contribute to

- Solving and tackling with global environmental issues
- Achieving sustainable development
- Mitigating large scale disasters

Global Map Specifications

- Spatial resolution: 1km (equivalent to 1:1,000,000 scale)
- 8 layers
 - Vector data (point, line, area) Transportation (Roads/Railways/Airport) Boundary (Administrative/Coast) Drainage (Rivers/Lakes) Population centers (Cities)
 Raster data (grid)
 - Elevation, Vegetation(Percent Tree Cover), Land Cover, Land Use
- Update interval: Five years to be achieved







Global Mapping Project

-Who makes Global Map?-

Each National Mapping Organization (NMO) is responsible for developing data of its own country Supported by other NMOs, aid organizations and private companies when required

-Coordinating Mechanism-

ISCGM (International Steering Committee for Global Mapping) Established in 1996

Conducts policy making and progress management Secretariat :Geographical Survey Institute(GSI), Japan











Capacity Building Programs

- JICA Group Training Course on Global Mapping (implemented by GSI Japan)
- 94 experts of 57 countries participated(1994~2008) Global Mapping Partnership Program (by MLIT Japan) Global Map Africa Seminar:

86 experts of 35 countries participated(2002~2007)





Adaptation

• Global Map can be used for various simulations for adaptation measures. Ex: sea level rise, inundation, drought



Red areas: to be inundated at 5m-rise in sea level, NANSEI SHOTO (Japan)



REDD

Vegetation (Percent Tree Cover)of GM can be used to

- · Grasp the forest areas and distribution and their changes
- · Policy formulation and planning







Release of Global Map

 Global Map of each country/region is released from the website of ISCGM (http://www.iscgm.org)

or of respective participating organizations

- Freely downloadable for non-commercial use
- Depends on data policy of each country /region for commercial use
- Land Cover and Vegetation(Percent Tree Cover) are also available for commercial use.



Summary

Global Map:

- Version 1 was completed and released in 2008
- Is available on the Internet and is free for non-commercial use
- Is authorized by National Mapping Organizations of 180 countries and regions.
- Can be used for addressing Climate Change.



http://www.iscgm.org http://www.globalmap.org sec-iscgm@gsi.go.jp