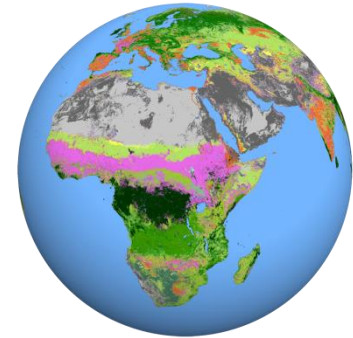


Global Mapping Project



August 14, 2012

2nd UNCE-GGIM in NY

Yoshikazu FUKUSHIMA

*Director-General of Geocartographic Department
Geospatial Information Authority of Japan, MLIT*

Outline of Global Mapping Project

- ✦ International cooperation of **National Mapping Organizations** to develop **basic global geospatial information** for **sustainable development**
- ✦ International Steering Committee for Global Mapping (ISCGM)
 - 20 members incl. Heads of 17 NMOs
 - Chair : Prof. D.R.F. Taylor (Carleton Univ, Canada)
 - Secretariat: **Geospatial Information Authority of Japan**
- ✦ Participation of 166 countries and 16 regions (as of 2012-08-01)

About Global Map dataset

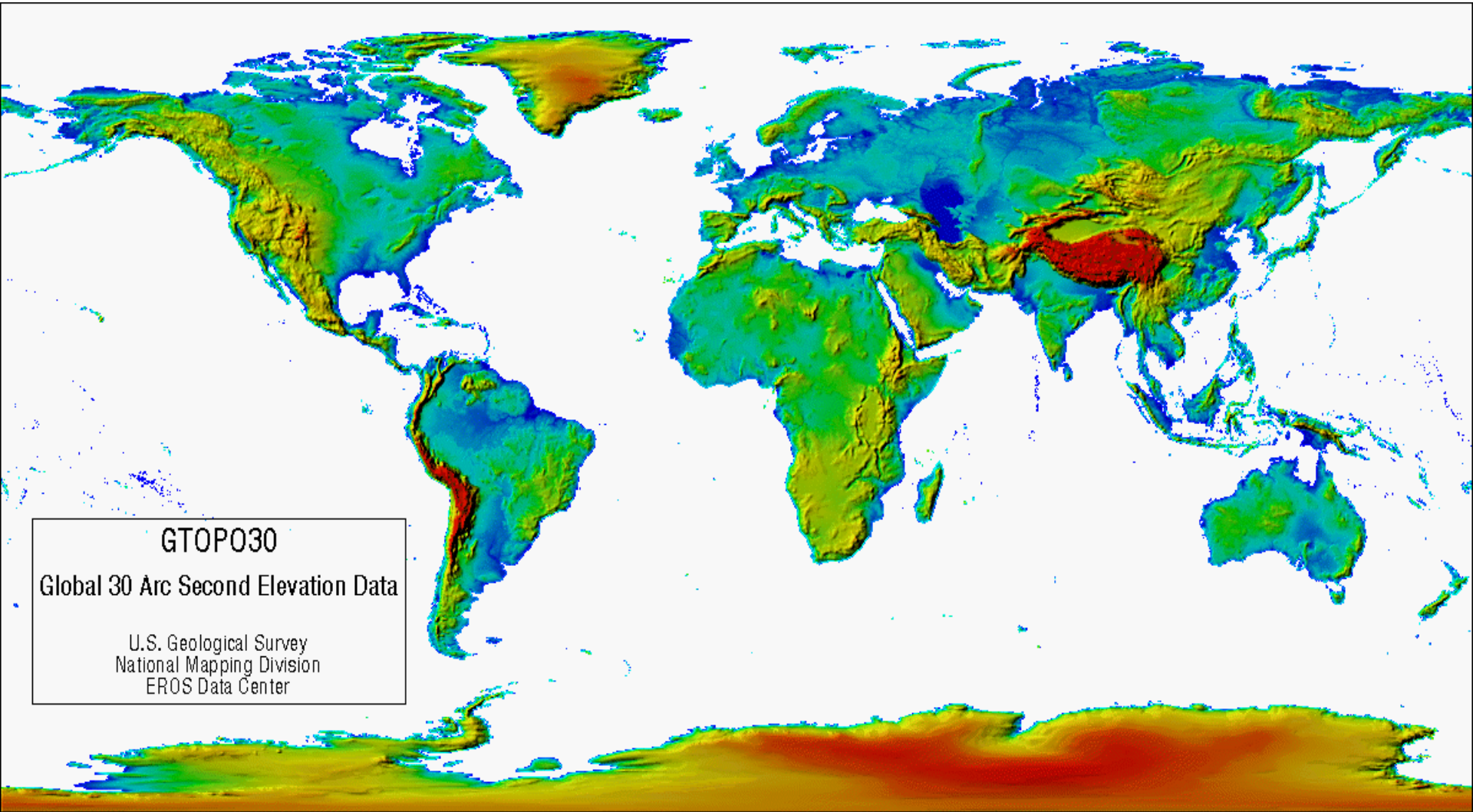
Digital geographic dataset

- ❑ Covering the **whole land area** of the earth
- ❑ With **consistent specifications**
- ❑ **Open** to the public
 - *freely downloadable for non-commercial use*
- ❑ Update interval: **5** years to be achieved
- ❑ Spatial resolution: **1km**
(equivalent to **1:1,000,000** scale)
- ❑ **8** layers including drainage, transportation, elevation, land cover, land use, and vegetation

History of Global Mapping Project



Global Map - Elevation

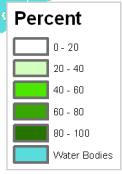


Global Map - Land Cover

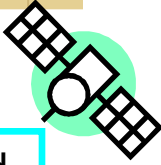
Legend

 Broadleaf Evergreen Forest	 Tree Open	 Cropland	 Bare area, consolidated(grave/Lock)
 Broadleaf Deciduous Forest	 Shrub	 Paddy field	 Bare area, unconsolidated(sand)
 Needleleaf Evergreen Forest	 Herbaceous, single layer	 Cropland/Natural Vegetation Mosaic	 Urban
 Needleleaf Deciduous Forest	 Herbaceous with Sparse Tree/Shrub	 Mangrove	 Snow/ice
 Mixed Forest	 Sparse Vegetation	 Wetland	 Water Bodies

Global Map - Vegetation (Percent Tree Cover)

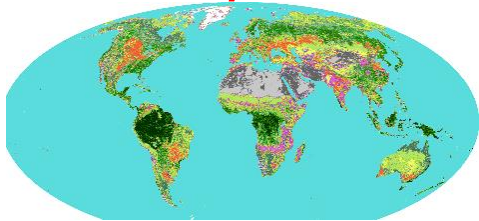


Integrated Flood Analysis System (IFAS)



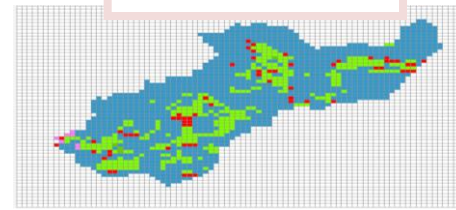
Land Information

- ▶ **Global Map (Land Use, Land Cover)**



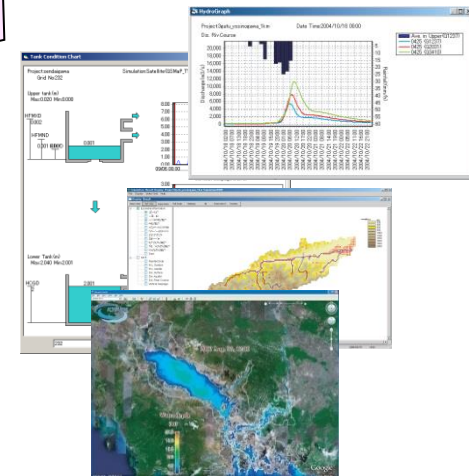
- ▶ Other Data (Soil, Geology)

Parameter



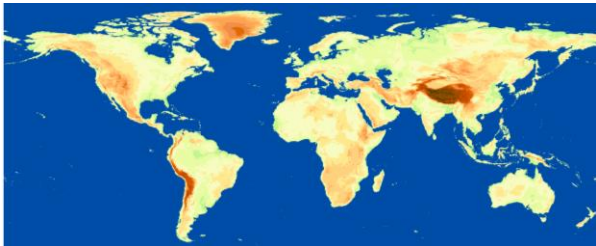
- ▶ Roughness
- ▶ Surface permeability
-

Satellite-based rainfall data

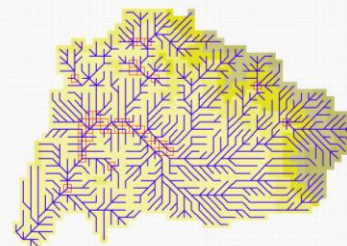


Elevation

- ▶ **Global Map (Elevation)**



Basin Shape



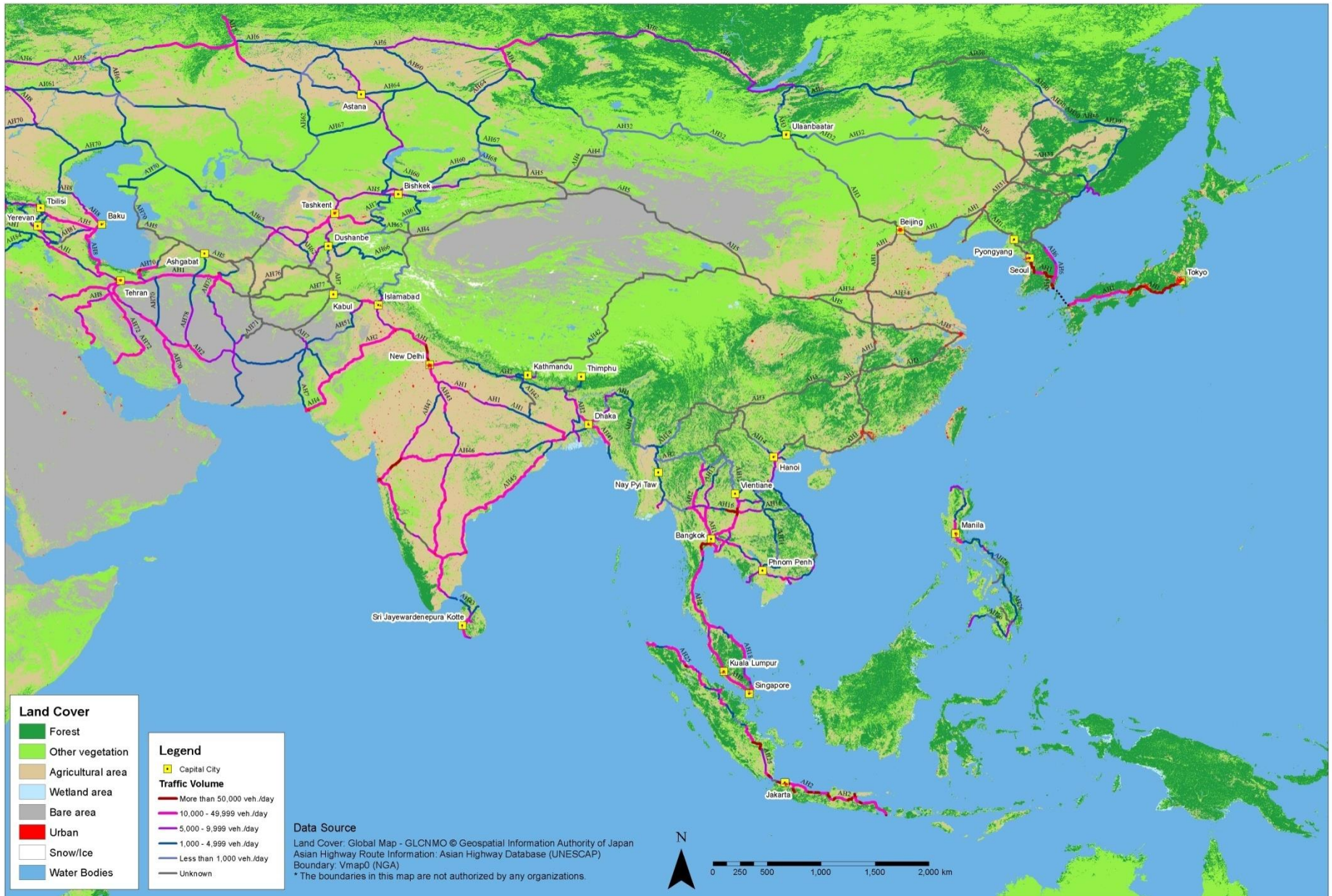
Flood Analysis



PWRI, Japan

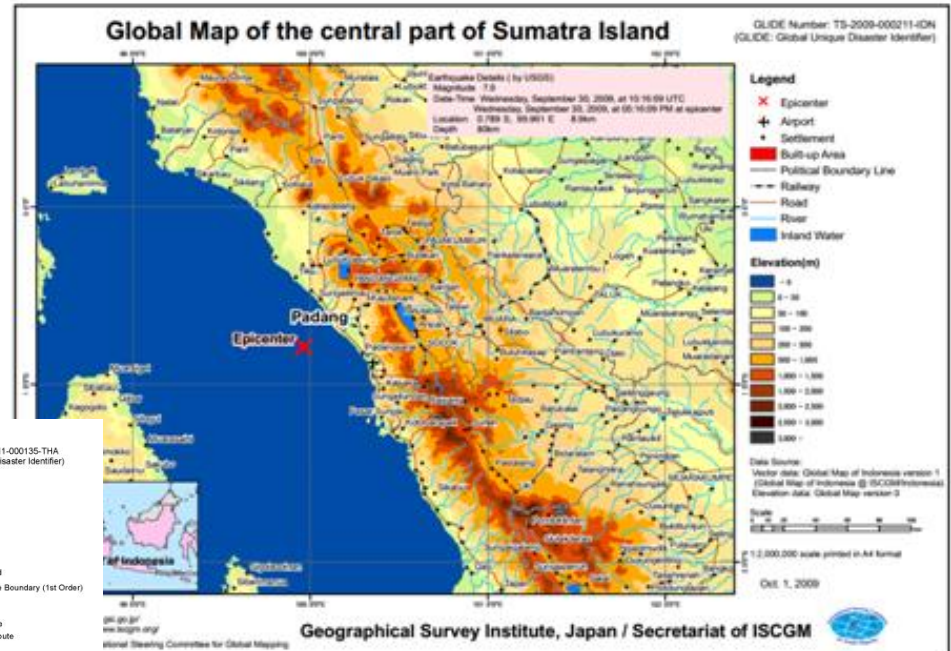
Collaboration with Asian Highway Project

Asian Highway on Global Map / Traffic Volume



Map of Disaster Affected Area

Global Maps of disaster hit areas are submitted to the United Nations Office for the Coordination of Humanitarian Affairs



(Up) Indonesia Earthquake on Sep. 30th, 2009

(Left) Thailand Flood in Oct. 2011

