

Presentation to GRIP workshop

Alex de Sherbinin

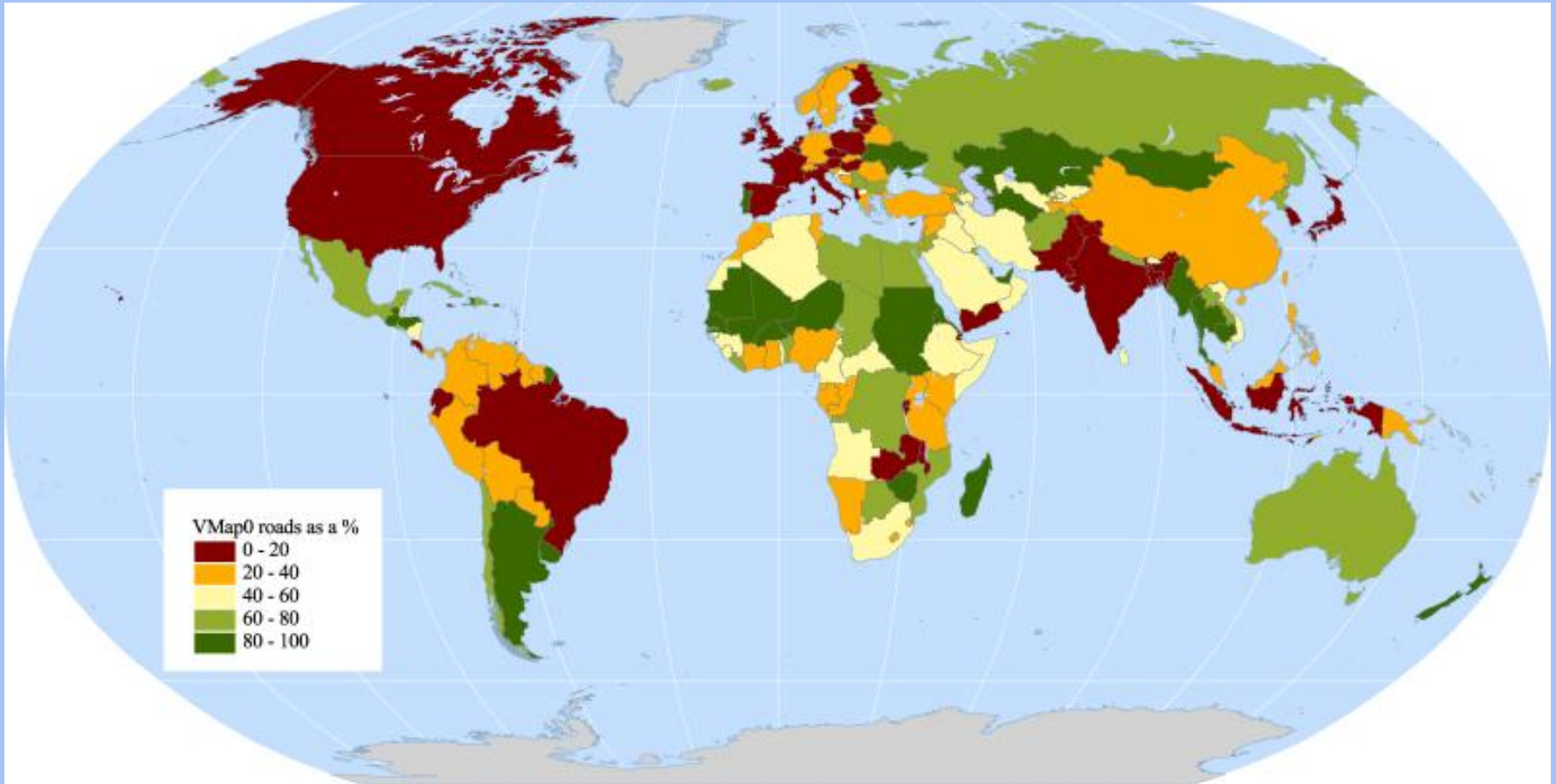
19 May 2006



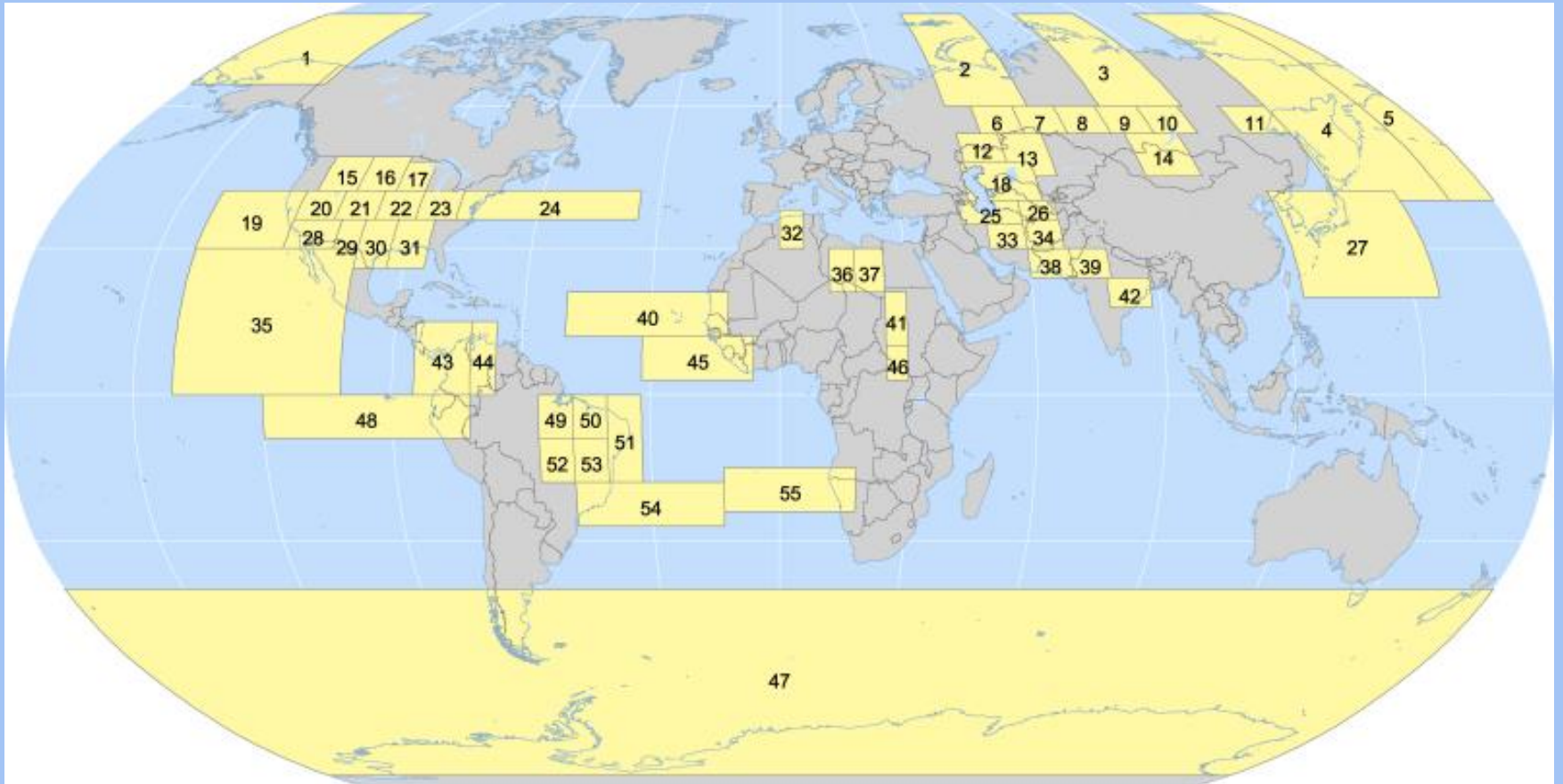
Transportation Data

- Roads Data:
 - Developed world: Good data but copyright protected and costly
 - Developing world: Generally poor data
 - Inconsistencies across neighboring countries and VMAP tiles
 - CIESIN has produced a white paper that describes several strategies for filling gaps (interest expressed by Netherlands Environmental Assessment Agency (MNP), World Bank and others)
- Airports: Best source is proprietary but may be useable by GRIP

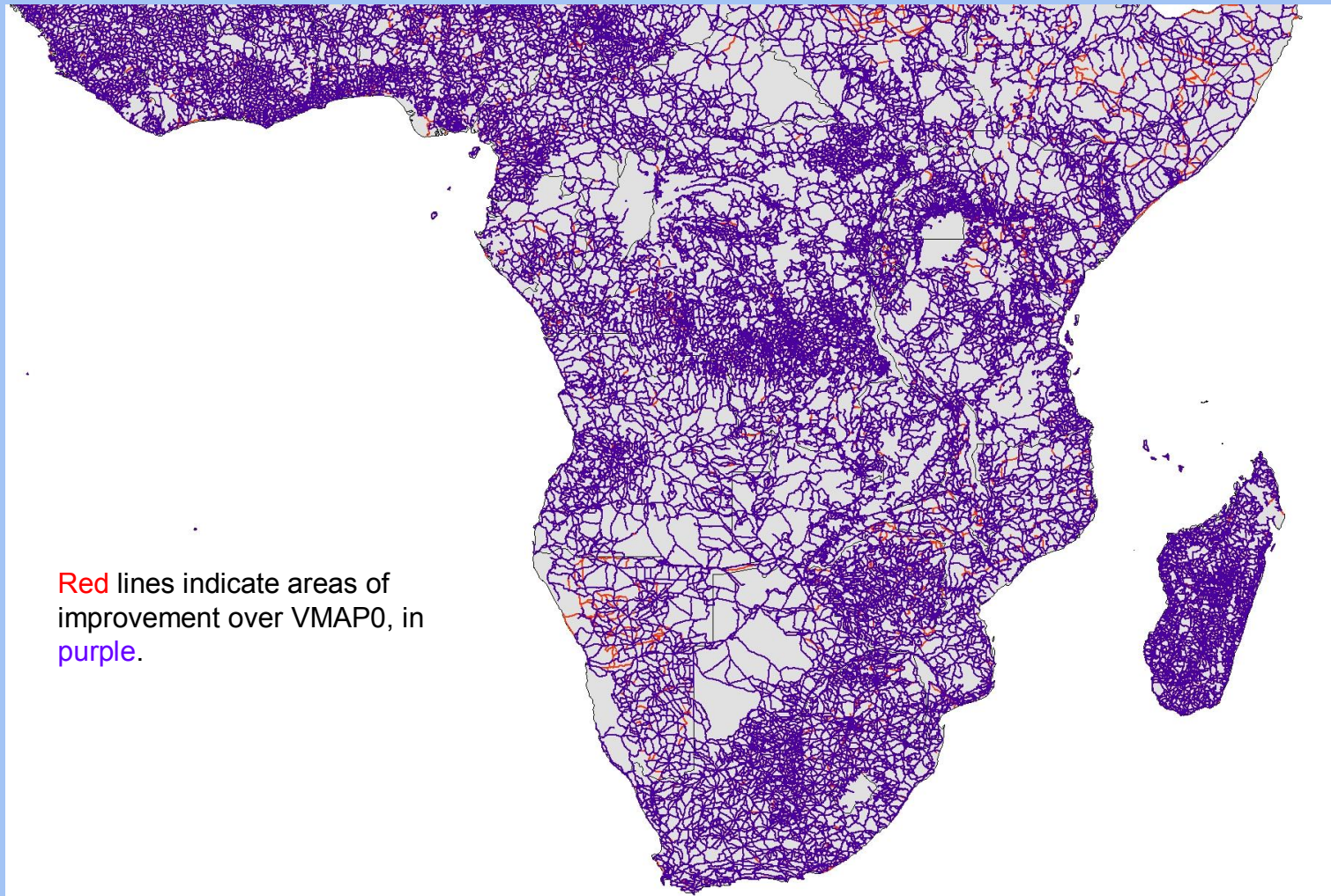
Estimated percentage of roads represented by VMAP0



VMAP1 tiles publicly available



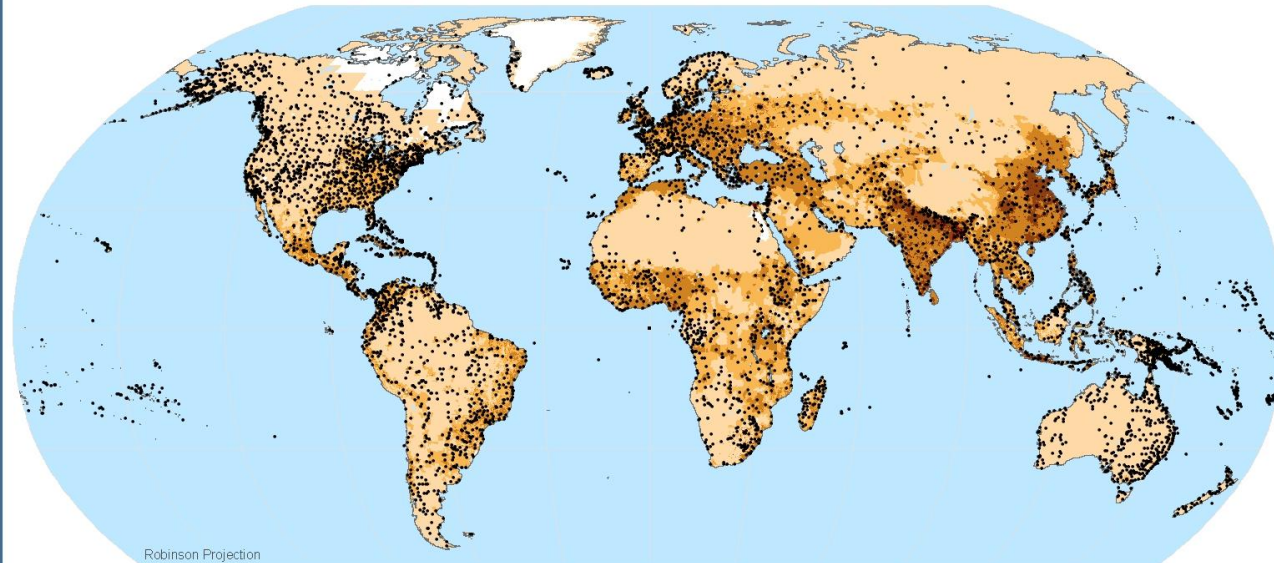
ADC's World Map v.5



ADC's WorldMap v.5 includes 8.7m km of roads versus the 7.6m km found in VMap0, an 1.1m km improvement

Airports

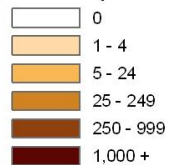
The World: Airports



Robinson Projection

Gridded Population of the World

Persons per km²



• airports



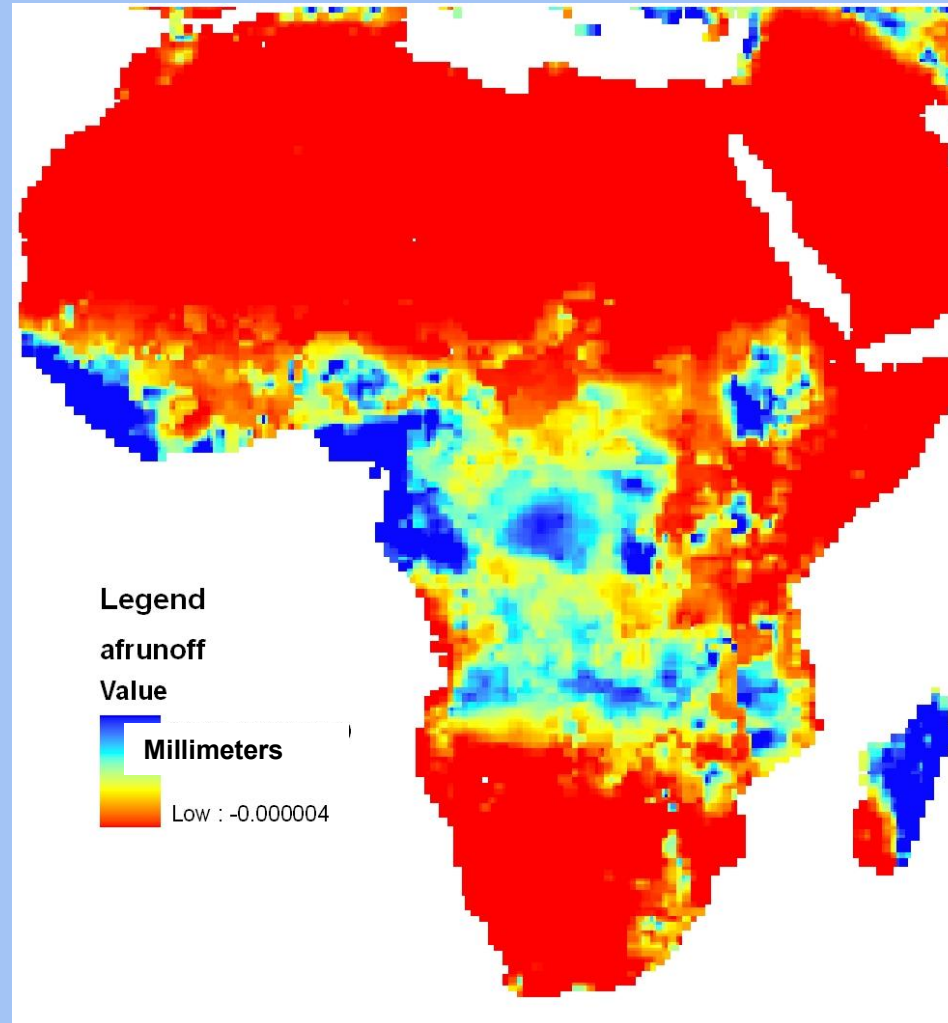
Copyright 2005. The Trustees of Columbia University in the City of New York.
Sources:
John McArthur, Columbia University
Center for International Earth Science Information Network (CIESIN),
Columbia University, and Centro Internacional de Agricultura Tropical (CIAT),
Gridded Population of the World (GPW), Version 3. Palisades, NY: CIESIN,
Columbia University. Available at: <http://sedac.ciesin.columbia.edu/gpw>.

Fragile Environments

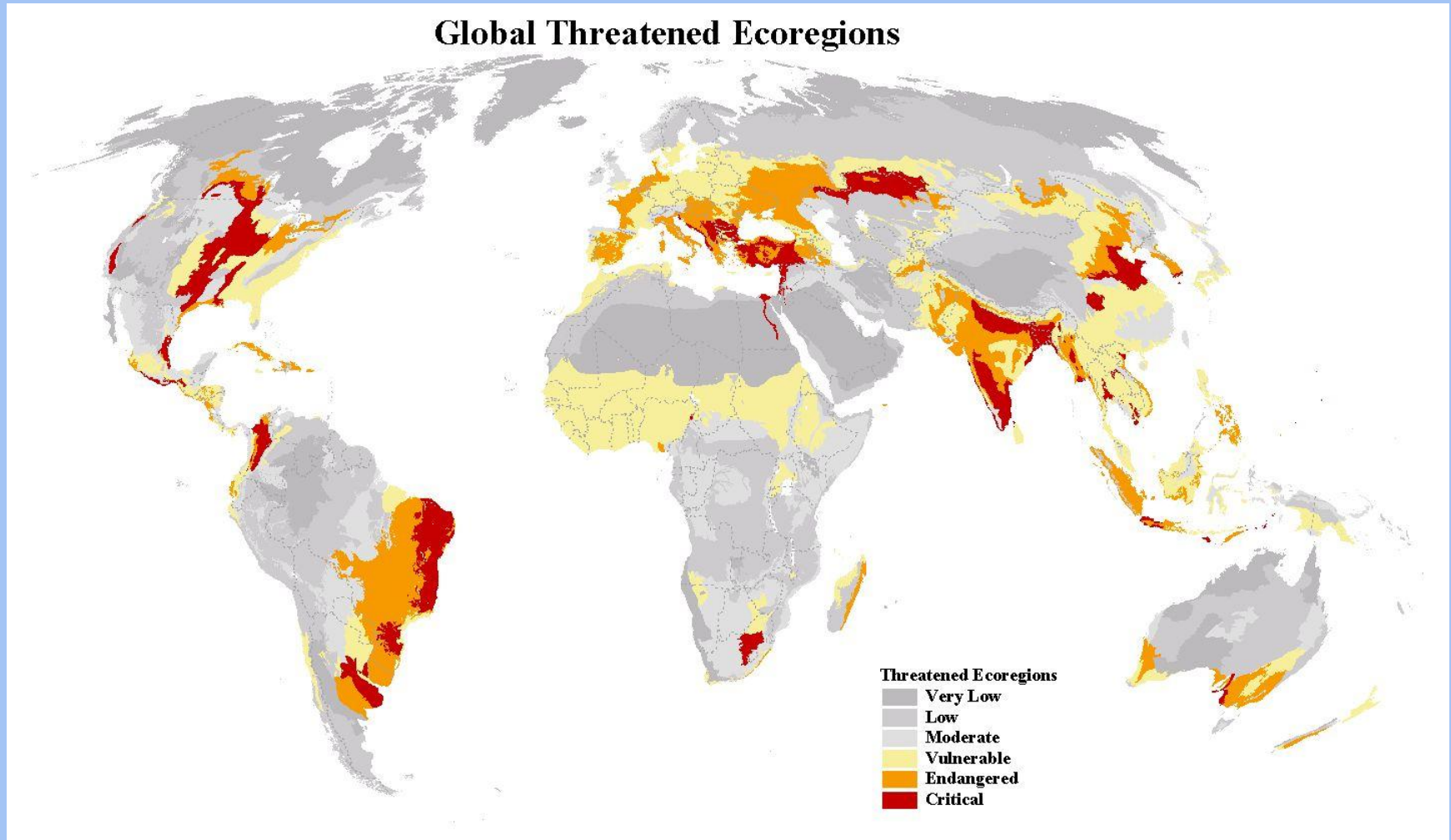
- Water Quantity
- Ecoregions at Risk
- Forests
- Biodiversity
- Coral reefs
- Mangroves

Water Quantity

GRDC/UNH Runoff Grid

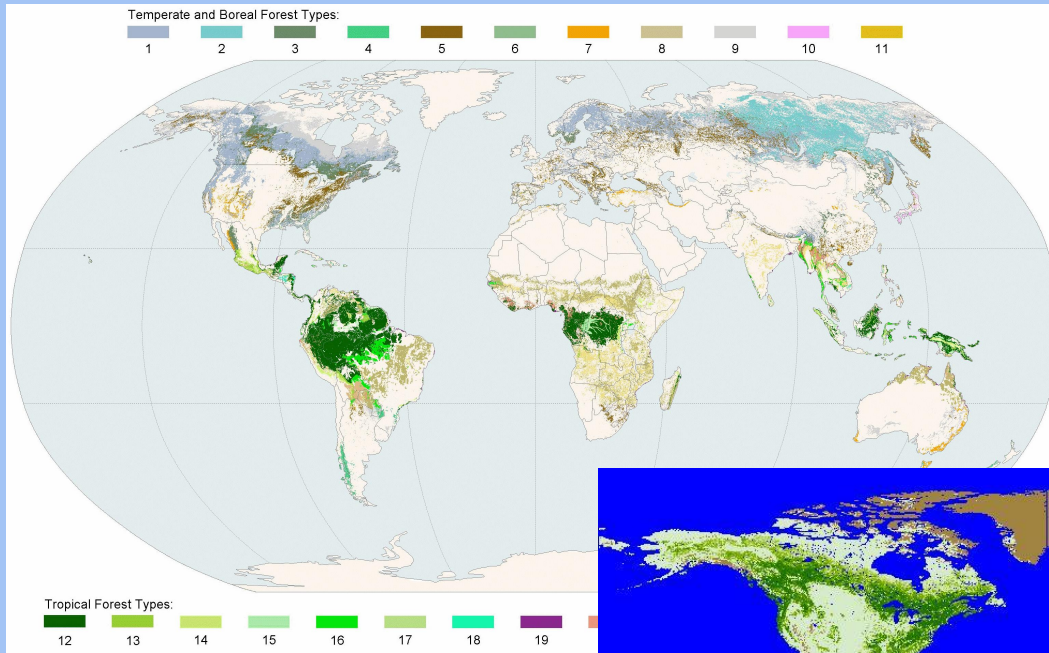


Ecoregions at Risk



Source: Hoekstra, J.M. *et al.* 2004. Confronting a biome crisis: global disparities of habitat loss and protection. The Nature Conservancy.

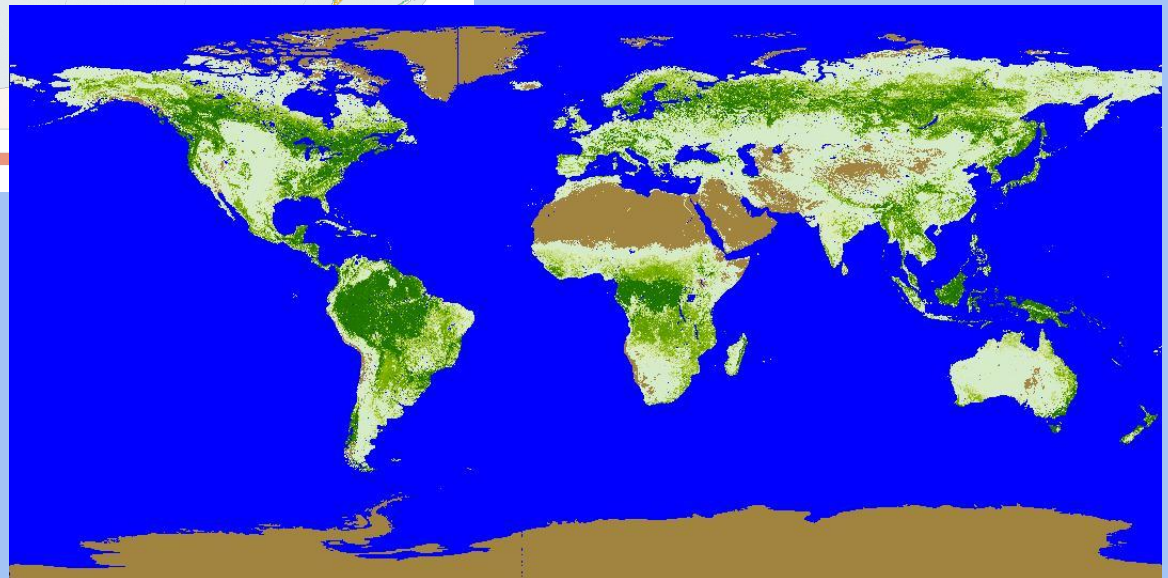
Forests



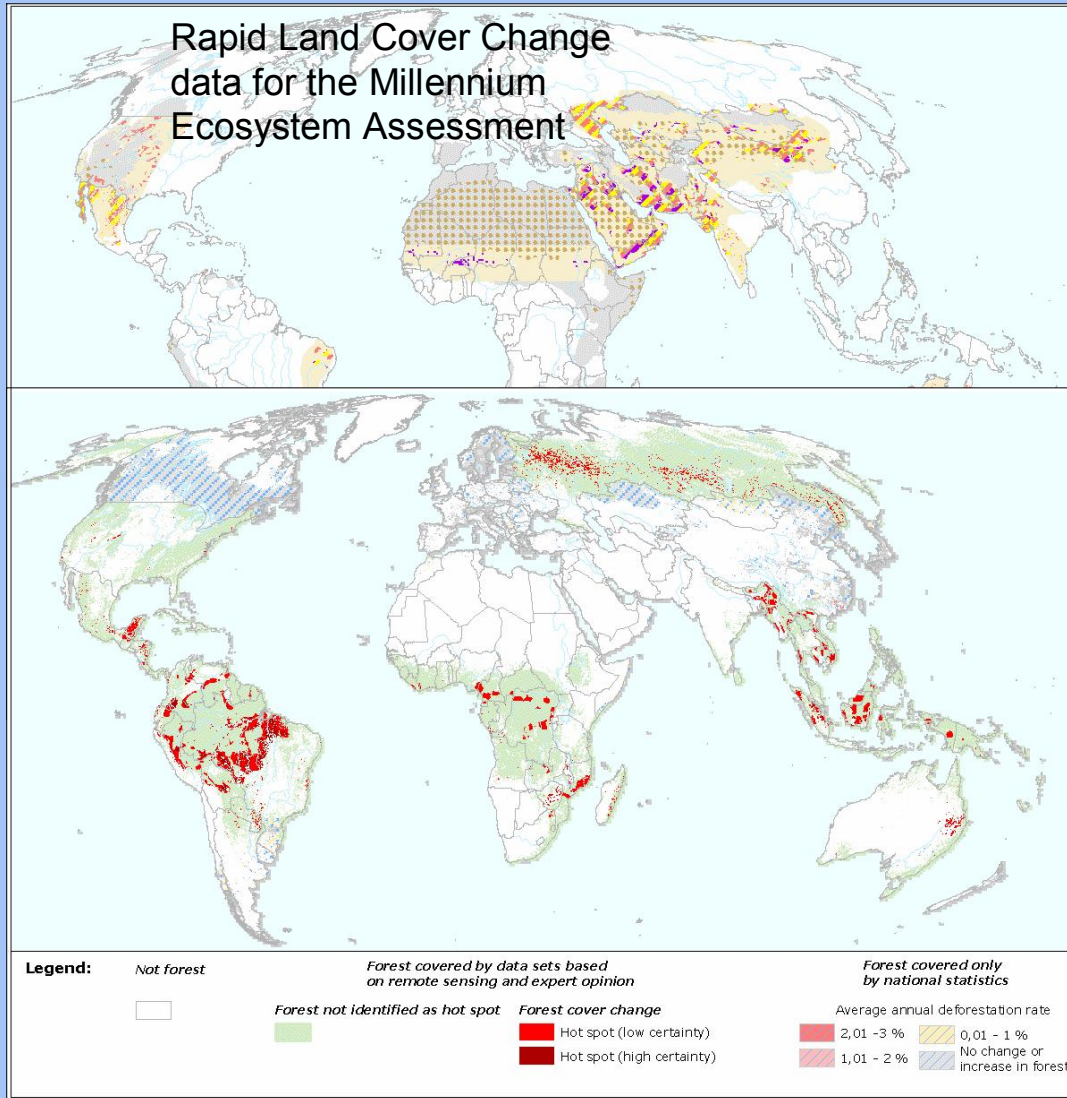
WCMC Forest Cover Map

University of Maryland Global
Land Cover Facility

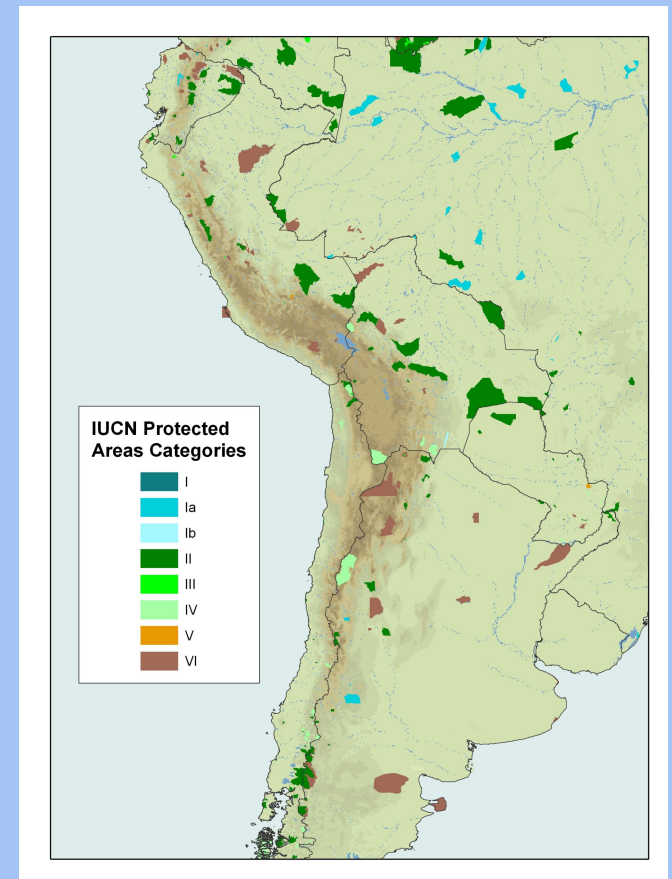
Percent Forest Cover Map



Biodiversity Conservation



World Database on Protected Areas



Coral Reefs



Mangroves

WCMC Biodiversity Atlas –
Mangrove Diversity

