



## DATA & APPLICATIONS ONLINE

# Global Rural-Urban Mapping Project (GRUMP)

### Overview

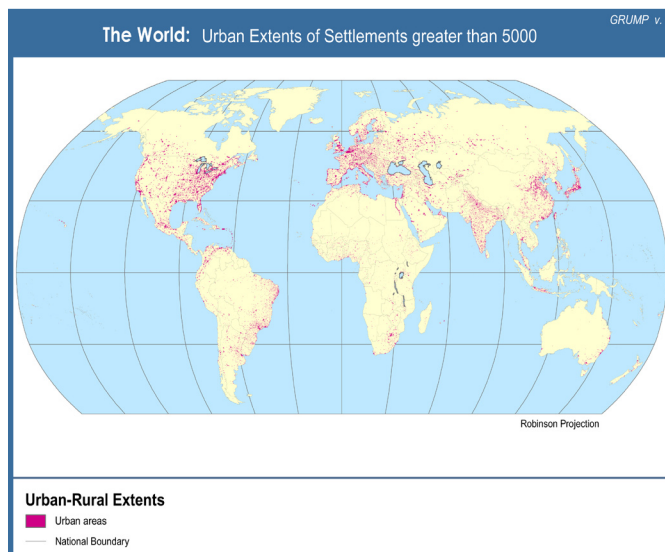
Urbanization poses key challenges for sustainable development and environmental management. Improved understanding of urban-rural differences in population distribution can help researchers and policy makers address critical research and policy problems.

One of SEDAC's latest developments, the *Global Rural-Urban Mapping Project (GRUMP)* renders the spatial distribution of human populations in a common geo-referenced framework. *GRUMP* builds on *GPW v3* by incorporating urban and rural information derived from satellite data and other sources, encouraging new insights into urban population distribution and the global extents of human settlements.

Currently in its alpha edition, *GRUMP* provides globally consistent and spatially explicit human population information and data for use in research, policy making, and communications.

### Data

Go to <http://sedac.ciesin.columbia.edu/gpw> to download data, maps, and information. The central data product, Gridded Population of the World with Urban Reallocation, adds urban/rural specification to *GPW v3*, with a grid cell resolution of 30 arc-seconds. Additional data sets resulting from *GRUMP* include a 30 arc-second land area grid showing urban areal extents worldwide, and a database of human settlements, their spatial coordinates, and populations.



### Project Highlights

- *GRUMP* has been used to describe the distribution of human settlements in low elevation coastal zones (LECZ) around the world.
- The Millennium Ecosystem Assessment used *GRUMP* to estimate urban and rural populations residing in different ecosystems globally.

To learn more, go to <http://sedac.ciesin.columbia.edu/gpw>

