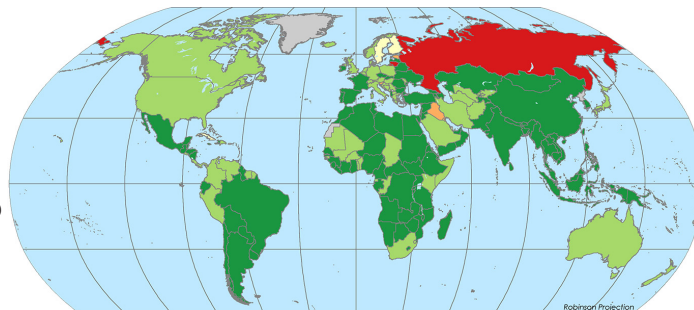


DATA & APPLICATIONS ONLINE

Environmental Sustainability Indicators

Overview

Efforts to develop sustainability indicators have grown since the 1980's, spurred by the recognition that environmental policy making should be data-driven, science-based, and analytically rigorous. SEDAC's Environmental Sustainability Indicators and Trends Web site provides access to sustainability indicator data produced by many different groups.



About the Data

A total of 92 data sets from 19 SEDAC data collections, including:

- 2014 Environmental Performance Index (EPI)—ranks 178 countries, with new additions from Small-Island Developing States and sub-Saharan Africa
- Environmental Sustainability Index—a measure of overall progress towards environmental sustainability developed for 146 countries
- Compendium of Environmental Sustainability Indicator Collections—facilitates comparison/analysis of sustainability indicators by compiling 426 indicators from six collections into one database
- Human Appropriation of Net Primary Productivity (HANPP)—compares the spatial distribution of human consumption of carbon with the ability of land-based ecosystems to produce it
- Anthropogenic Biomes—delineates 21 anthropogenic biomes based on population density, land use, and vegetation cover
- Indicators of Coastal Water Quality—chlorophyll-a concentrations from NASA's SeaWiFS sensor are used to analyze trends from 1998–2007 to identify near-coastal areas needing management intervention
- Last of the Wild, v2—includes the Global Human Footprint, mapping anthropogenic impacts on the environment
- Global Rural-Urban Mapping Project (GRUMP), version 1—a global point database of human settle-

ments, an urban extent mask, and a 30 arc-second (~1 km) population grid

- Natural Disaster Hotspots—a collection of global geospatial data of six major natural hazards and the associated risks of mortality and economic loss

There are also links to a map gallery, an interactive map service, and featured data uses.

Data Access

Go to <http://bit.ly/1RpaYKU> to download data, maps, and information.

References

Hsu, A., Emerson, J., Levy, M., de Sherbinin, A., Johnson, L., Malik, O., Schwartz, J., and Jaiteh, M. 2014. *The 2014 Environmental Performance Index*. New Haven, CT: Yale Center for Environmental Law and Policy. <http://www.epi.yale.edu>.

Naranjo, L. 2008. Scorecard on the environment. *Sensing Our Planet: NASA Earth Science Research Features*. https://earthdata.nasa.gov/files/NASA_SOP_2008_Scorecard_on_the_environment.pdf.



Socioeconomic Data and Applications Center (SEDAC)
CIESIN, Earth Institute at Columbia
University Palisades, New York
<http://sedac.ciesin.columbia.edu>

www.nasa.gov



EODIS DAACs
SEDAC is one of twelve NASA Earth Observing System Data and Information System (EODIS) Distributed Active Archive Centers (DAACs)

To learn more about data and tools available from EODIS, go to earthdata.nasa.gov.