



DATA & APPLICATIONS ONLINE

Anthropogenic Biomes

Overview

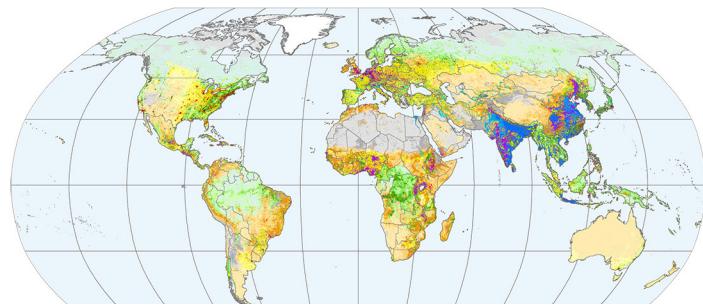
Also known as “anthromes” or “human biomes,” the anthropogenic biomes data sets describe the terrestrial biosphere in its contemporary, human-altered form using global ecosystem units defined by patterns of sustained direct human interaction. Twenty-one global anthropogenic biomes are described (Ellis and Ramankutty, 2008), based on population density, land use, and vegetation cover, grouped into six categories—dense settlements, villages, croplands, rangeland, forested, and wildlands.

About the Data

- Version 1 of the data set describes globally-significant ecological patterns within the terrestrial biosphere caused by sustained direct human interaction with ecosystems, including agriculture, urbanization, forestry and other land uses circa 2001–2006.
- Version 2 of the data set (1700–2000, Ellis et al 2010), describes historical transformations within the terrestrial biosphere caused by sustained direct human interaction with ecosystems, including agriculture and urbanization. Between 1700 and 2000, the terrestrial biosphere made the critical transition from mostly wild to mostly anthropogenic, passing the 50% mark early in the 20th century.
- Users can download each data set as one global raster or as a raster for each of the six populated continents. The data are available in GeoTiff and Esri grid formats.

Data Access

Go to bit.ly/22YaBLq to download data, maps, and information.



References

Beitler, J. 2011. Repatterning the World. *Sensing Our Planet: NASA Earth Science Research Features*. <https://earthdata.nasa.gov/user-resources/sensing-our-planet/re patterning-the-world>

Ellis, E. C. and Ramankutty, N. 2008. Putting people in the map: Anthropogenic biomes of the world. *Frontiers in Ecology and the Environment* 6(8): 439–447. http://ecotope.org/people/ellis/papers/ellis_2008.pdf

Ellis, E. C., Goldewijk, K. K., Siebert, S., Lightman, D. and Ramankutty, N. 2010. Anthropogenic transformation of the biomes, 1700 to 2000. *Global Ecology and Biogeography* 19: 589–606. <http://dx.doi.org/10.1111/j.1466-8238.2010.00540.x>.



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