

LEVELS OF MEASUREMENT

BY NTUA



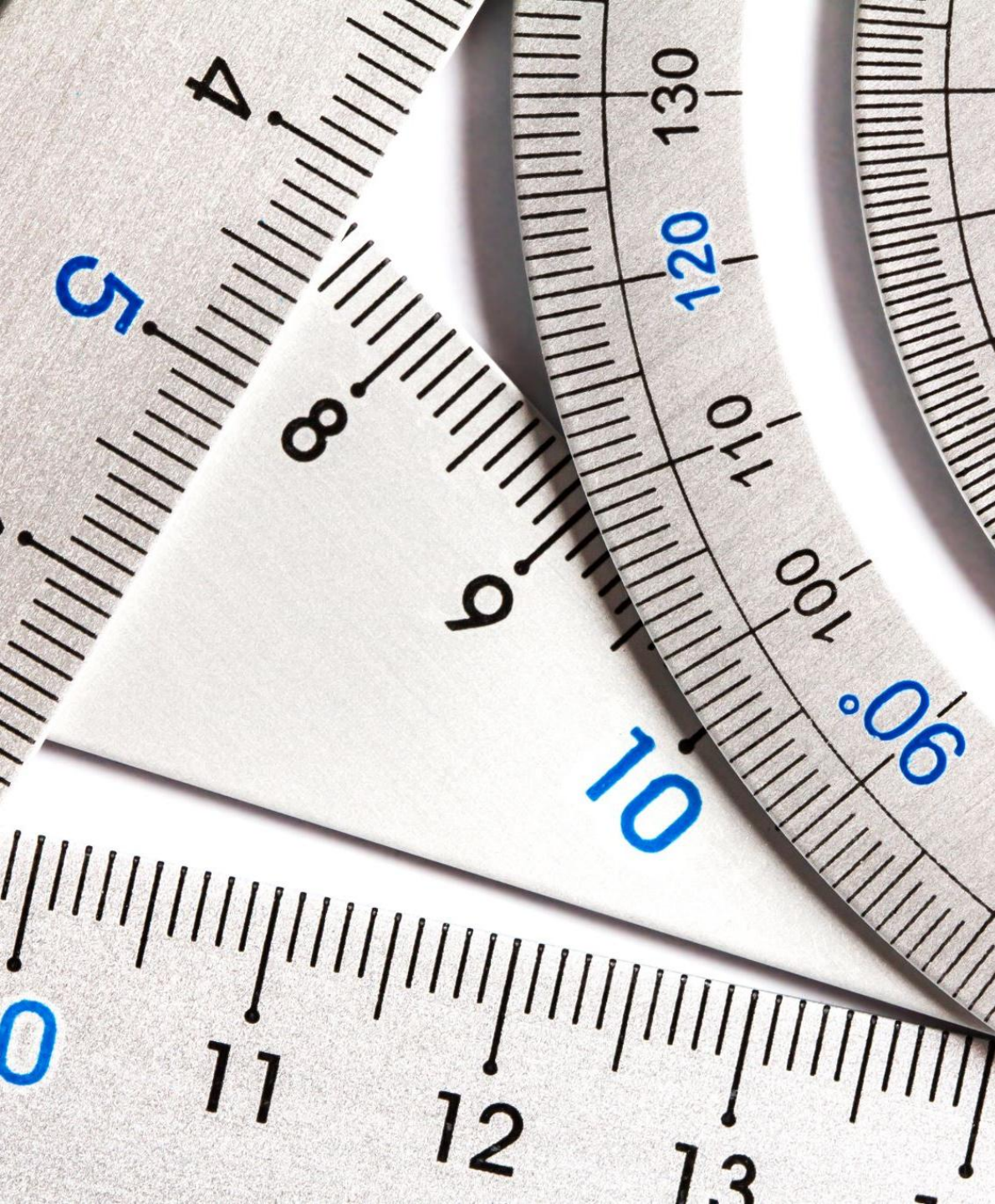
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GEO-Hub for teachers in Europe



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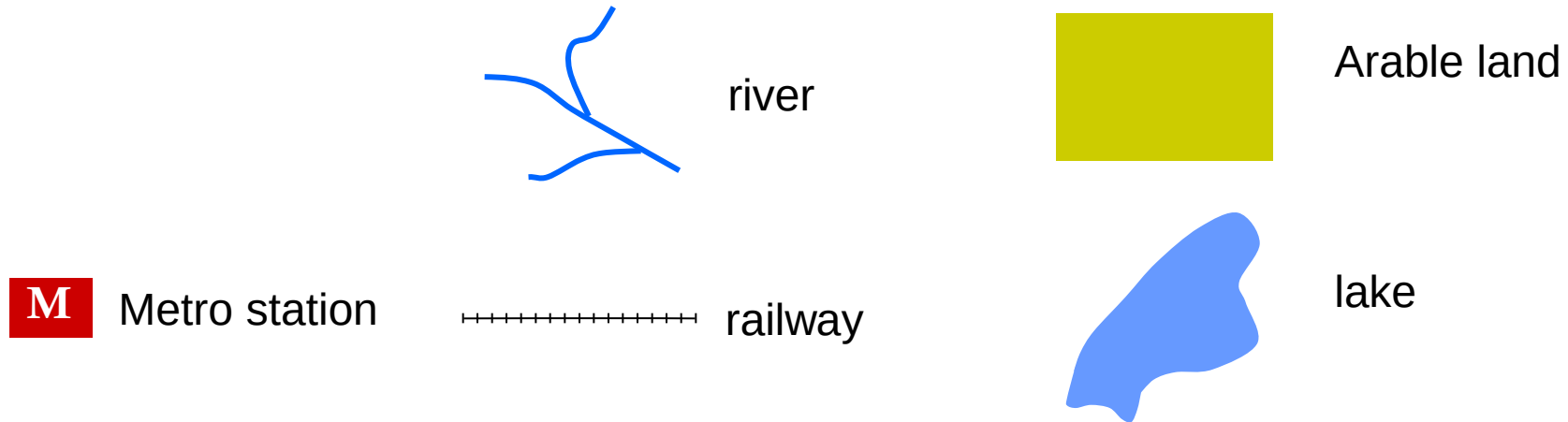
LEVELS OF MEASUREMENT

- nominal
- ordinal
- interval
- ratio

NOMINAL LEVEL OF MEASUREMENT

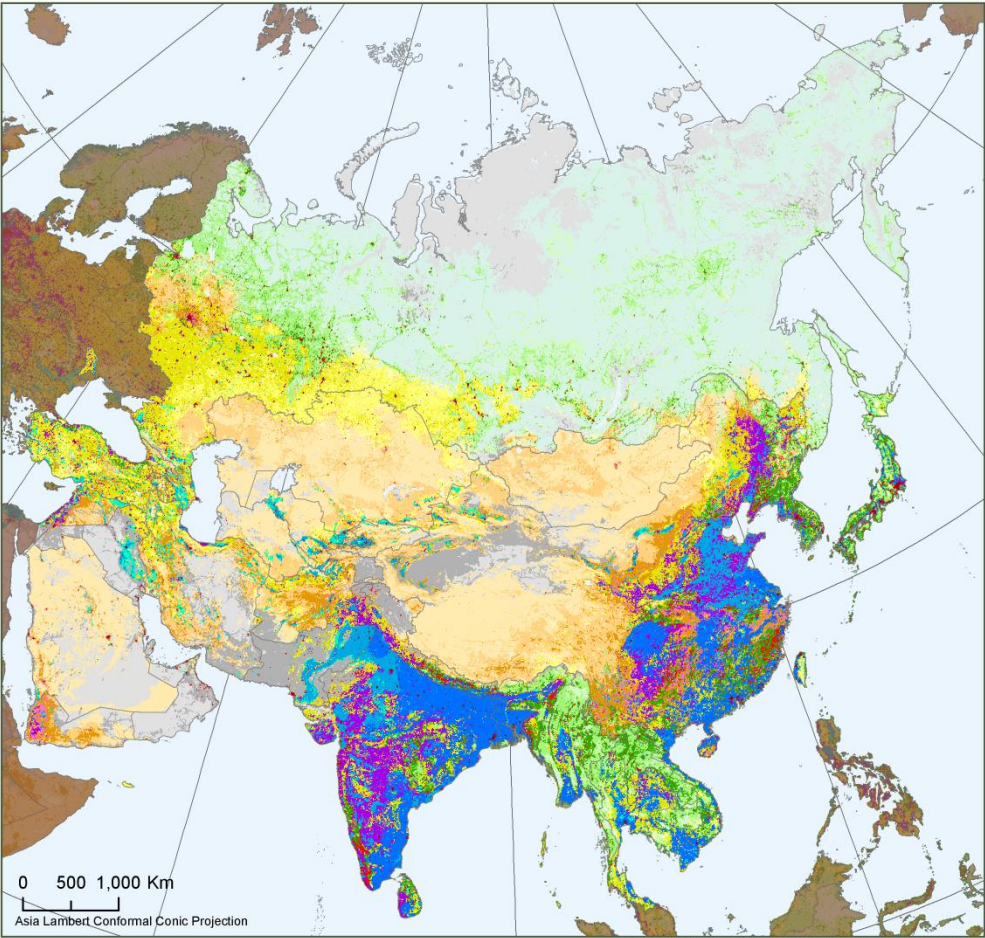
qualitative differences

categorical data, unranked and non-numerical



Anthropogenic Biomes of the World, Version 2, 2000: Asia

Anthropogenic Biomes



Map Credit: CIESIN Columbia University, September 2013

Anthropogenic biomes data sets describe potential natural vegetation, biomes, as transformed by sustained human population density and land use including agriculture and urbanization. Anthropogenic biome categories (Anthromes) are defined by population density and land-use intensity. The data consists of 19 anthrome classes in six broad categories.

Croplands	Dense Settlements	Villages
Residential irrigated croplands	Urban	Rice villages
Residential rainfed croplands	Mixed settlements	Irrigated villages
Populated croplands		Rainfed villages
Remote croplands	Seminatural	Pastoral villages
Rangelands	Residential woodlands	Wildlands
Residential rangelands	Populated woodlands	Wild woodlands
Populated rangelands	Remote woodlands	Wild treeless and barren lands
Remote rangelands	Inhabited treeless and barren lands	

Data Source: Ellis, E.C., K.K. Goldewijk, S. Siebert, D. Lightman, and N. Ramankutty. 2013. Anthropogenic Biomes of the World, Version 2, 2000. Palisades, NY: NASA Socioeconomic Data and Applications Center (SEDAC). <http://sedac.ciesin.columbia.edu/data/set/anthromes-anthropogenic-biomes-world-v2-2000>.

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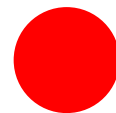
Center for International Earth
Science Information Network
Earth Institute | Columbia University

ORDINAL LEVEL OF MEASUREMENT



Ordered or ranked data with no assigned numerical values.

It is used to distinguish data based on a hierarchy (rank, order)



Large settlement



Motorway



Medium
settlement



Arterial road



Small settlement



Collector road

INTERVAL LEVEL OF MEASUREMENT

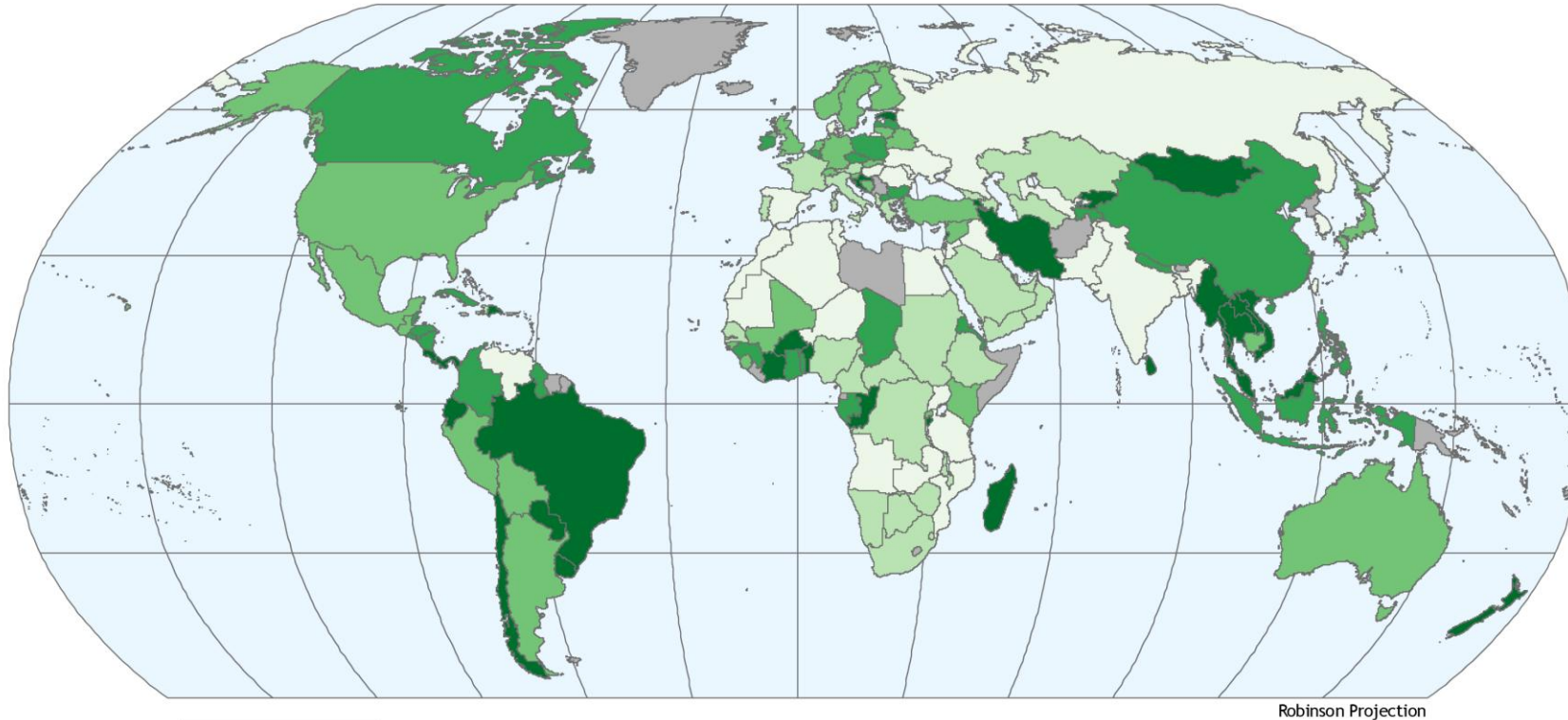
- numerical data
 - Examples of interval level data: temperature and year.
 - The zero point is arbitrary on interval scales (e.g., zero degrees Fahrenheit and zero degrees Celsius): neither indicates the absence of temperature.
-



RATIO LEVEL OF MEASUREMENT

- Numerical data
 - Examples of ratio level data: distance, area, population.
 - On ratio level of measurement, the zero point indicates the absence of the phenomenon; this means that a quantity of 20 measured at the ratio scale is twice the value of 10, a relation that does not hold true for quantities measured at the interval level (20 degrees Celsius is not twice as warm as 10 degrees).
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Agriculture Policy Sub-Category Scores (2008 EPI)



Agriculture Policy Scores

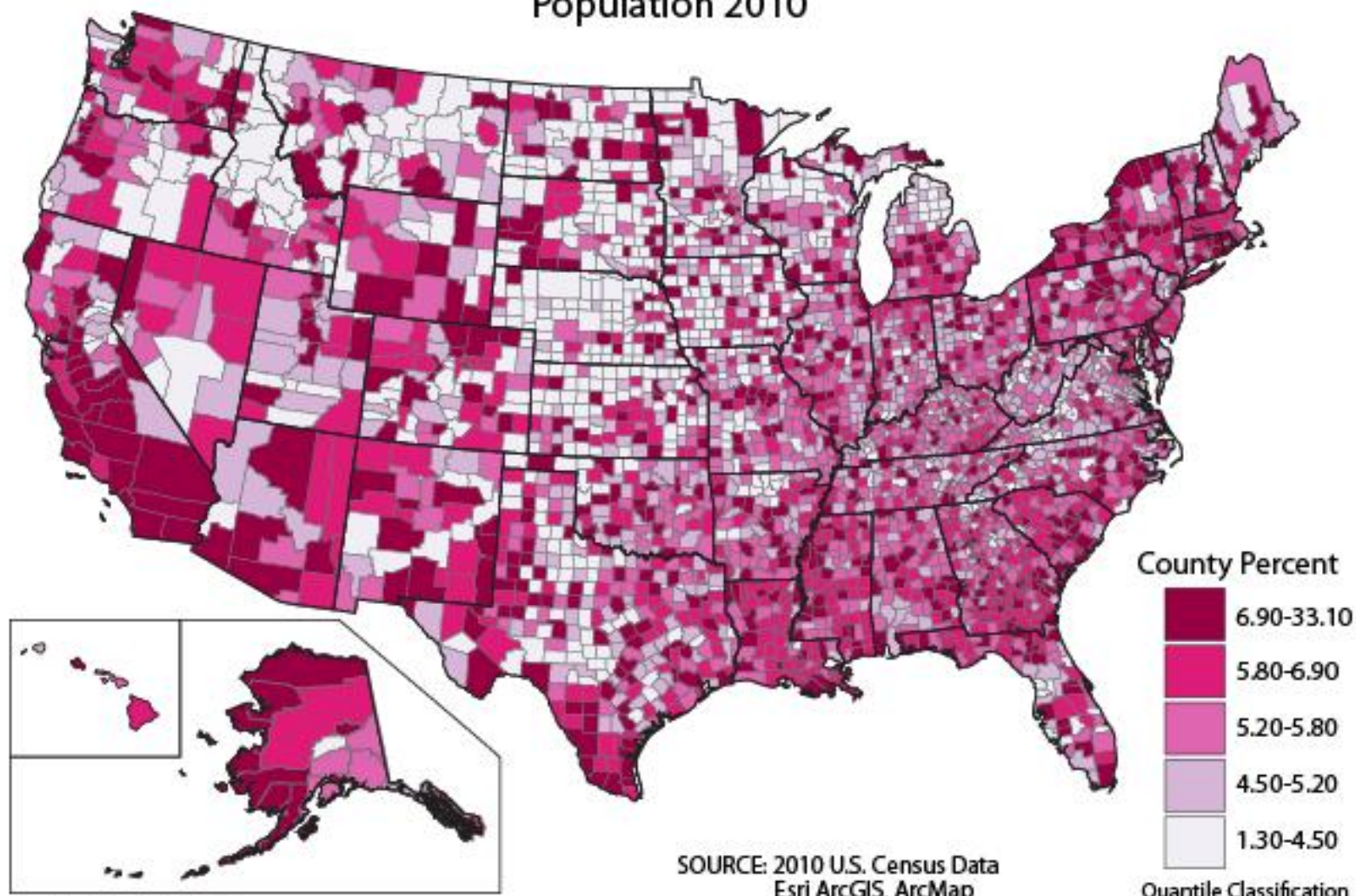
0.0 - 69.3
69.4 - 76.4
76.5 - 79.9
80.0 - 86.1
86.2 - 100.0
no data

Index Description:

The Agriculture Policy Sub-Category of the Productive Natural Resource Policy from the 2008 EPI is a unitless score based on a theoretical range from 0 to 100 (0 represents the farthest from the target and 100 represents the attainment of the target). Scores are averaged across five constituent indicators: Irrigation Stress, Agricultural Subsidies, Intensive Cropland, Burnt Land Area and Pesticide Regulation. This policy sub-category weight is 2.5% of the overall EPI.

United States Adults Ages 20 to 24 by County

Population 2010



Map by Derek Montañó

Derek Montañó , 2013, https://commons.wikimedia.org/wiki/File:Choropleth_Map.png, [Creative Commons Attribution-Share Alike 3.0 Unported](#) license.