Upper Yangtze River Scientific Data Center

**Golbal 1km Gridded Population Density ,GPWv4.11 (2000, 2005, 2010, 2015, 2020)**

1、Description

Golbal 1km Gridded Population Density ,GPWv4.11 consists of estimates of human population density (number of persons per square kilometer) based on counts consistent with national censuses and population registers, for the years 2000, 2005, 2010, 2015, and 2020. A proportional allocation gridding algorithm, utilizing approximately 13.5 million national and sub-national administrative units, was used to assign population counts to 30 arc-second grid cells. The population density rasters were created by dividing the population count raster for a given target year by the land area raster. The data files were produced as global rasters at 30 arc-second (~1 km at the equator) resolution. The essential inputs to dataset have been population census tables and corresponding geographic boundaries. The purpose of GPW is to provide a spatially disaggregated population layer that is compatible with data sets from social, economic, and Earth science disciplines, and remote sensing.

2、Keywords

Theme：Human-nature Remote Sensing,Population  
Discipline：Human-nature Relationship  
Places：global  
Time：2000, 2005, 2010, 2015, 2020

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：1648.64MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：90.0 | - |
| west：-180.0 | - | east：180.0 |
| - | south：-90.0 | - |

5、Time frame:None--None

6、Reference method

References to data:

COLUMBIA UNIVERSITY Center for International Earth Science Information Network - CIESIN. Golbal 1km Gridded Population Density ,GPWv4.11 (2000, 2005, 2010, 2015, 2020). Upper Yangtze River Scientific Data Center, doi:https://doi.org/10.7927/H49C6VHW2022

References to articles:

7、Supporting project information

8、Data resource provider

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