# Gridded Population of the World, Version 4 (GPWv4) Preliminary Release 2

# Disclaimer

These data represent a preliminary data release. The final data set will eventually be distributed via the NASA Socioeconomic Data and Applications Center ([SEDAC](http://sedac.ciesin.columbia.edu/help" \t "_blank)), and will go through a more formal alpha and beta review process as part of that release. We encourage feedback on the data set, which can be sent to [gpw@ciesin.columbia.edu](mailto:gpw@ciesin.columbia.edu).

# Data Set Descriptions

**Gridded Population of the World, Version 4 (GPWv4): Population Count (2010), Preliminary Release 2**

The population count grid, GL\_E\_ATOTPOPBT\_2010\_CNTM.tif, consists of estimates of the number of persons per 30 arc-second grid cell for 2010.

**Gridded Population of the World, Version 4 (GPWv4): Population Density (2010), Preliminary Release 2**

The population density grid, GL\_E\_ATOTPOPBT\_2010\_DENS.tif, is derived by dividing the population count grid by the land area grid. It represents persons per square kilometer for 2010.

**Gridded Population of the World, Version 4 (GPWv4): Land Area, Preliminary Release 2**

The land area grid, GL\_AREAKM.tif, measures land area in square kilometers. It permits the summation of land area (*i.e.* area without permanent ice and water) at the same resolution as the population density and count grids.

**Gridded Population of the World, Version 4 (GPWv4): Data Quality Indicators, Preliminary Release 2**

The Data Quality Indicators data set consists of two grids: a water mask and a contextual grid. These grids were created to provide additional information regarding the pixels labelled as ‘No data’ or ‘0’ in the population count and density grids.

The water mask, GL\_WATERMASK.tif, distinguishes between pixels that are completely water and/or ice (Total Water Pixels) and pixels that also contain land (Partial Water Pixels).

The grid GL\_DATACONTEXT.tif categorizes pixels with a 0 population estimate in the population count and density grids, based on information included in the census documents. Pixels are categorized into 6 categories: Parks or Protected Area, Military District, No Households, Not Enumerated, Uninhabited, and Unknown. Pixels categorized as Unknown belong to administrative units where the data are currently being researched; these will be updated before the final data release.

# Recommended Citation

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