Gridded Population of the World, Version 4 (GPWv4): Population Count, Revision 11

Identification_Information
Spatial_Data_Organization_Information
Spatial_Reference_Information
Distribution_Information
Metadata_Reference_Information

Identification Information

Section Index

Citation:
    Citation Information:
        Originator: Center for International Earth Science Information Network - CIESIN - Columbia University
        Publication Date: 20181231
        Title: Gridded Population of the World, Version 4 (GPWv4): Population Count, Revision 11
        Edition: 4.11
        Geospatial Data Presentation Form: raster, map, map service
        Publication Information:
            Publication Place: Palisades, NY
            Publisher: NASA Socioeconomic Data and Applications Center (SEDAC)
        Online Linkage: https://doi.org/10.7927/H4JW8BX5
Description:
    Abstract:
        The Gridded Population of the World, Version 4 (GPWv4): Population Count, Revision 11 consists of estimates of human population (number of persons per pixel), 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 data files were produced as global rasters at 30 arc-second (~1 km at the equator) resolution. To enable faster global processing, and in support of research communities, the 30 arc-second data were aggregated to 2.5 arc-minute, 15 arc-minute, 30 arc-minute and 1 degree resolutions.
    Purpose: To provide estimates of population count for the years 2000, 2005, 2010, 2015, and 2020, consistent with national censuses and population registers, as raster data to facilitate data integration.
    Supplemental Information: The documentation for this data set is available at http://sedac.ciesin.columbia.edu/data/set/gpw-v4-population-count-rev11/docs.
Time Period of Content:

Time Period Information:
      Multiple Dates/Times:
            Single Date/Time:
                  Calendar Date: 2000/07/01
            Single Date/Time:
                  Calendar Date: 2005/07/01
            Single Date/Time:
                  Calendar Date: 2010/07/01
            Single Date/Time:
                  Calendar Date: 2015/07/01
            Single Date/Time:
                  Calendar Date: 2020/07/01
      Currentness Reference: publication date

Status:
      Progress: Complete
      Maintenance and Update Frequency: As needed

Spatial Domain:
      Bounding Coordinates:
            West Bounding Coordinate: -180.000000
            East Bounding Coordinate: 180.000000
            North Bounding Coordinate: 90.000000
            South Bounding Coordinate: -90.000000

Keywords:
      Theme:
            Theme Keyword Thesaurus: GCMD Science Keywords, Version 8.6
            Theme Keyword: EARTH SCIENCE > HUMAN DIMENSIONS > POPULATION > POPULATION SIZE
      Theme:
            Theme Keyword Thesaurus: SEDAC Theme
            Theme Keyword: Population
      Theme:
            Theme Keyword Thesaurus: Data Granularity
            Theme Keyword: Country
            Theme Keyword: Continent
            Theme Keyword: Global
      Theme:
            Theme Keyword Thesaurus: ISO Topic
            Theme Keyword: Society
      Place:
            Place Keyword Thesaurus: CIESIN Location Terms, Version 3.1
            Place Keyword: Global

Access Constraints: None

Use Constraints:
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            Contact Organization Primary:

Contact Organization: NASA Socioeconomic Data and Applications Center (SEDAC)

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State or Province: New York

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Browse Graphic:

Browse Graphic File Name: https://sedac.ciesin.columbia.edu/downloads/maps/gpw-v4/gpw-v4-population-count-rev11/gpw-v4-population-count-rev11-global-2015-thumbnail.jpg

Browse Graphic File Description: Global Population Count (2015)

Browse Graphic File Type: JPEG

Cross Reference:

Citation Information:

Originator: Center for International Earth Science Information Network - CIESIN - Columbia University, United Nations Food and Agriculture Programme - FAO, and Centro Internacional de Agricultura Tropical - CIAT

Publication Date: 20051231

Title: Gridded Population of the World, Version 3 (GPWv3): Population Count Grid

Edition: 3.00

Geospatial Data Presentation Form: raster, map service

Publication Information:

Publication Place: Palisades, NY

Publisher: NASA Socioeconomic Data and Applications Center (SEDAC)

Online Linkage: https://doi.org/10.7927/H4639MPP

Cross Reference:

Citation Information:

Originator: Center for International Earth Science Information Network - CIESIN - Columbia University

Publication Date: 20160711

Title: Gridded Population of the World, Version 4 (GPWv4): Population Count

Edition: 4.00

Geospatial Data Presentation Form: raster, map

Publication Information:

Publication Place: Palisades, NY

Publisher: NASA Socioeconomic Data and Applications Center (SEDAC)

Online Linkage: https://doi.org/10.7927/H4X63JVC

Cross Reference:

Citation Information:

Originator: Doxsey-Whitfield, E., K. MacManus, S. B. Adamo, L. Pistolesi, J. Squires, O. Borkovska and S. R. Baptista

Publication Date: 20150724

Title: Taking Advantage of the Improved Availability of Census Data: A First Look at the Gridded Population of the World, Version 4

Geospatial Data Presentation Form: journal article
Series Information:
    Series Name: Papers in Applied Geography
    Issue Identification: 1(3): 226-235
Online Linkage: https://doi.org/10.1080/23754931.2015.1014272
Cross Reference:
    Citation Information:
        Originator: Center for International Earth Science Information Network - CIESIN - Columbia University
        Publication Date: 20171222
        Title: Gridded Population of the World, Version 4 (GPWv4): Population Count, Revision 10
        Edition: 4.10
        Geospatial Data Presentation Form: raster, map
        Publication Information:
            Publication Place: Palisades, NY
            Publisher: NASA Socioeconomic Data and Applications Center (SEDAC)
        Online Linkage: https://doi.org/10.7927/H4PG1PPM
Cross Reference:
    Citation Information:
        Originator: Center for International Earth Science Information Network - CIESIN - Columbia University
        Publication Date: 20181231
        Title: Gridded Population of the World, Version 4 (GPWv4): Administrative Unit Center Points with Population Estimates, Revision 11
        Edition: 4.11
        Geospatial Data Presentation Form: vector, tabular, database, map, map service
        Publication Information:
            Publication Place: Palisades, NY
            Publisher: NASA Socioeconomic Data and Applications Center (SEDAC)
        Online Linkage: https://doi.org/10.7927/H4BC3WMT
Cross Reference:
    Citation Information:
        Originator: Center for International Earth Science Information Network - CIESIN - Columbia University
        Publication Date: 20181231
        Title: Gridded Population of the World, Version 4 (GPWv4): Data Quality Indicators, Revision 11
        Edition: 4.11
        Geospatial Data Presentation Form: raster, map, map service
        Publication Information:
            Publication Place: Palisades, NY
            Publisher: NASA Socioeconomic Data and Applications Center (SEDAC)
        Online Linkage: https://doi.org/10.7927/H42Z13KG
Cross Reference:
    Citation Information:
        Originator: Center for International Earth Science Information Network - CIESIN - Columbia University
        Publication Date: 20181231
        Title: Gridded Population of the World, Version 4 (GPWv4): Land and Water Area,

Revision 11
Edition: 4.11
Geospatial Data Presentation Form: raster, map, map service
Publication Information:
      Publication Place: Palisades, NY
      Publisher: NASA Socioeconomic Data and Applications Center (SEDAC)
Online Linkage: https://doi.org/10.7927/H4Z60M4Z

Cross Reference:
  Citation Information:
      Originator: Center for International Earth Science Information Network - CIESIN - Columbia University
      Publication Date: 20181231
      Title: Gridded Population of the World, Version 4 (GPWv4): National Identifier Grid, Revision 11
      Edition: 4.11
      Geospatial Data Presentation Form: raster, vector, map, map service
      Publication Information:
            Publication Place: Palisades, NY
            Publisher: NASA Socioeconomic Data and Applications Center (SEDAC)
      Online Linkage: https://doi.org/10.7927/H4TD9VDP

Cross Reference:
  Citation Information:
      Originator: Center for International Earth Science Information Network - CIESIN - Columbia University
      Publication Date: 20181231
      Title: Gridded Population of the World, Version 4 (GPWv4): Population Density, Revision 11
      Edition: 4.11
      Geospatial Data Presentation Form: raster, map, map service
      Publication Information:
            Publication Place: Palisades, NY
            Publisher: NASA Socioeconomic Data and Applications Center (SEDAC)
      Online Linkage: https://doi.org/10.7927/H49C6VHW

Cross Reference:
  Citation Information:
      Originator: Center for International Earth Science Information Network - CIESIN - Columbia University
      Publication Date: 20181213
      Title: Documentation for the Gridded Population of the World, Version 4 (GPWv4), Revision 11
      Geospatial Data Presentation Form: document
      Publication Information:
            Publication Place: Palisades, NY
            Publisher: NASA Socioeconomic Data and Applications Center (SEDAC)
      Online Linkage: https://doi.org/10.7927/H45Q4T5F

Cross Reference:
  Citation Information:
      Originator: Center for International Earth Science Information Network - CIESIN - Columbia University
      Publication Date: 20181231

Title: Gridded Population of the World, Version 4 (GPWv4): Basic Demographic Characteristics, Revision 11

Edition: 4.11

Geospatial Data Presentation Form: raster, map, map service

Publication Information:

    Publication Place: Palisades, NY

    Publisher: NASA Socioeconomic Data and Applications Center (SEDAC)

Online Linkage: https://doi.org/10.7927/H46M34XX

Cross Reference:

Citation Information:

    Originator: Center for International Earth Science Information Network - CIESIN - Columbia University

    Publication Date: 20181231

    Title: Gridded Population of the World, Version 4 (GPWv4): Population Count Adjusted to Match 2015 Revision of UN WPP Country Totals, Revision 11

    Edition: 4.11

    Geospatial Data Presentation Form: raster, map, map service

    Publication Information:

        Publication Place: Palisades, NY

        Publisher: NASA Socioeconomic Data and Applications Center (SEDAC)

    Online Linkage: https://doi.org/10.7927/H4PN93PB

Cross Reference:

Citation Information:

    Originator: Center for International Earth Science Information Network - CIESIN - Columbia University

    Publication Date: 20181231

    Title: Gridded Population of the World, Version 4 (GPWv4): Population Density Adjusted to Match 2015 Revision UN WPP Country Totals, Revision 11

    Edition: 4.11

    Geospatial Data Presentation Form: raster, map, map service

    Publication Information:

        Publication Place: Palisades, NY

        Publisher: NASA Socioeconomic Data and Applications Center (SEDAC)

    Online Linkage: https://doi.org/10.7927/H4F47M65

Spatial Data Organization Information

Section Index

Direct Spatial Reference Method: Raster

Raster Object Information:

    Raster Object Type: Grid Cell

    Row Count: 17400

    Column Count: 43200

    Vertical Count: 1

Spatial Reference Information

[Section Index](#)

Horizontal Coordinate System Definition:
    Geographic:
        Latitude Resolution: 0.008333
        Longitude Resolution: 0.008333
        Geographic Coordinate Units: Decimal degrees
    Geodetic Model:
        Horizontal Datum Name: WGS84
        Ellipsoid Name: WGS84
        Semi-major Axis: 6378137.000000
        Denominator of Flattening Ratio: 298.257224

Distribution Information

[Section Index](#)

Distributor:
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        Contact Organization Primary:
            Contact Organization: NASA Socioeconomic Data and Applications Center (SEDAC)
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    Resource Description: CIESIN_SEDAC_GPWv4_POPCOUNT_R11
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    Standard Order Process:
        Digital Form:

Digital Transfer Information:

Fees: 0

Ordering Instructions:

The data in Georeferenced Tagged Image File Format (.tif), American Standard Code for Information Interchange (.asc), and Network Common Data Format Version 4 (.nc) formats; the maps in Portable Document Format (.pdf), and Portable Network Graphics (.png) formats; and the web map services are available from the NASA Socioeconomic Data and Applications Center (SEDAC).

Standard Order Process:

Digital Form:

Digital Transfer Information:

Format Name: ASCII

File Decompression Technique: Unzip

Digital Transfer Option:

Online Option:

Computer Contact Information:

Network Address:

Network Resource Name:

https://sedac.ciesin.columbia.edu/data/set/gpw-v4-population-count-rev11/data-download

Access Instructions: Data accessible via the data set landing page.

Digital Form:

Digital Transfer Information:

Format Name: GeoTIFF

File Decompression Technique: Unzip

Digital Transfer Option:

Online Option:

Computer Contact Information:

Network Address:

Network Resource Name:

https://sedac.ciesin.columbia.edu/data/set/gpw-v4-population-count-rev11/data-download

Access Instructions: Data accessible via the data set landing page.

Digital Form:

Digital Transfer Information:

Format Name: netCDF-4

File Decompression Technique: Unzip

Digital Transfer Option:

Online Option:

Computer Contact Information:

Network Address:

Network Resource Name:

https://sedac.ciesin.columbia.edu/data/set/gpw-v4-population-count-rev10/data-download

Access Instructions: Data accessible via the data set landing page.

Digital Form:

Digital Transfer Information:

Format Name: PDF

Digital Transfer Option:

Online Option:

     Computer Contact Information:
      Network Address:
       Network Resource Name:
       https://sedac.ciesin.columbia.edu/data/set/gpw-v4-population-count-rev11/maps
    Access Instructions: Maps accessible via the data set landing page.
   Digital Form:
    Digital Transfer Information:
     Format Name: PNG
    Digital Transfer Option:
     Online Option:
      Computer Contact Information:
       Network Address:
        Network Resource Name:
        https://sedac.ciesin.columbia.edu/data/set/gpw-v4-population-count-rev11/maps
    Access Instructions: Maps accessible via the data set landing page.
   Digital Form:
    Digital Transfer Information:
     Format Name: WMS
    Digital Transfer Option:
     Online Option:
      Computer Contact Information:
       Network Address:
        Network Resource Name:
        https://sedac.ciesin.columbia.edu/data/set/gpw-v4-population-count-rev11/maps/services
    Access Instructions: Web Map Services accessible via the data set landing page.
 Available Time Period:
  Time Period Information:
   Range of Dates/Times:
    Beginning Date: 2019/02/28
    Ending Date: Present

Metadata Reference Information

[Section Index](#)

Metadata Date: 2018/08/22
Metadata Review Date: 2022/08/31
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  Contact Organization Primary:
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Contact Electronic Mail Address: metadata@ciesin.columbia.edu
Metadata Standard Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata Standard Version: FGDC-STD-001-1998
Metadata Time Convention: local time

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