Upper Yangtze River Scientific Data Center

**Global 1km LandScan Population (2000-2021)**

1、Description

Using an innovative approach that combines geospatial science, remote sensing technology, and machine learning algorithms, LandScan Global is the finest resolution global population distribution data available representing an ambient (24 hour average) population. The LandScan Global algorithm, an R&D 100 Award Winner, uses spatial data, high-resolution imagery exploitation, and a multi-variable dasymetric modeling approach to disaggregate census counts within an administrative boundary. Since no single population distribution model can account for the differences in spatial data availability, quality, scale, and accuracy as well as the differences in cultural settlement practices, LandScan population distribution models are tailored to match the data conditions and geographical nature of each individual country and region. By modeling an ambient population, LandScan Global captures the full potential activity space of people throughout the course of the day and night rather than just a residential location.

2、Keywords

Theme：Population,Labor Force
Discipline：Human-nature Relationship
Places：global
Time：2000-2021

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：3328.0MB

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:

Human Geography, Geospatial Science and Human Security Division, Oak Ridge National Laboratory. Global 1km LandScan Population (2000-2021). Upper Yangtze River Scientific Data Center, doi:https://doi.org/10.48690/15277022022

References to articles:

7、Supporting project information

8、Data resource provider

name: Human Geography, Geospatial Science and Human Security Division, Oak Ridge National Laboratory
unit: Human Geography, Geospatial Science and Human Security Division, Oak Ridge National Laboratory
email: landscan@ornl.gov