A Big Earth Data Platform for Three Poles

**Refined population spatial distribution data set of Yangon deep water port area (2019)**

1、Description

This data is the population grid data of ten meter scale in 2019. Each grid expresses the total number of population within this range (unit: person). The source data of this data comes from Myanmar's 2019 1km population data set in the world pop data center（ https://www.worldpop.org/geodata/summary?id=40443 ）, the obtained source data are processed by projection transformation and clipping to obtain the population distribution in Yangon, and then the data are downscaled, The spatial distribution data set of refined population (10m) in Yangon deep water port area is obtained. Regular ten meter scale population grid data are obtained by spatial scale conversion and downscaling. Each grid population is calculated by random forest method according to the population of each administrative unit and multi-source auxiliary data. Population data can be used in many fields, including urban planning, elections, risk assessment, disaster relief, disease prevention and control, poverty reduction and poverty alleviation, etc;

2、Keywords

Theme：Population,Population number
Discipline：Human-nature Relationship
Places：Yongon
Time：2019-2020

3、Data details

1.Scale：10

2.Projection：WGS84

3.Filesize：60.3MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：17.1 | - |
| west：95.9 | - | east：96.4 |
| - | south：16.5 | - |

5、Time frame:2018-12-31 16:00:00+00:00--2019-12-30 16:00:00+00:00

6、Reference method

References to data:

GE Yong, LI Qiangzi, LI Yi. Refined population spatial distribution data set of Yangon deep water port area (2019). A Big Earth Data Platform for Three Poles, doi:10.11888/Socioeco.tpdc.2710582020

References to articles:

Stevens, F.R., Gaughan, A.E., Linard, C., & Tatem, A.J. (2015). Disaggregating Census Data for Population Mapping Using Random Forests with Remotely-Sensed and Ancillary Data. PLOS ONE, 10(2), e0107042. https://doi.org/10.1371/journal.pone.0107042.

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

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