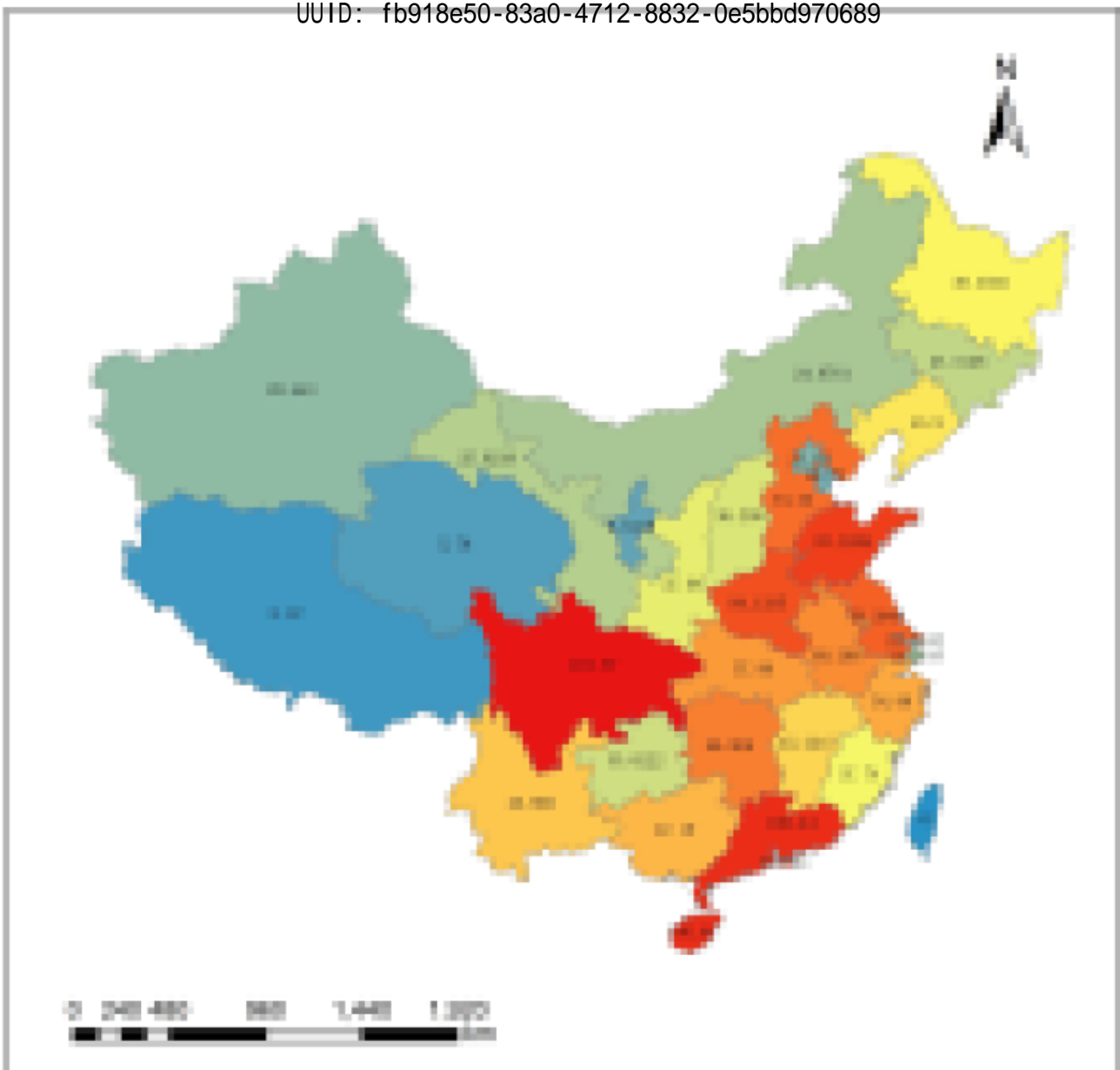




Cold and Arid Regions Science Data Center

Competitive spatiotemporal dataset on population distribution and its natural-social-economic driving factors from 1949 to 2013

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Competitive spatiotemporal dataset on population distribution and its natural-social-economic driving factors from 1949 to 2013

Abstract

Spatiotemporal data of human populations and its driving factors including environmental factors and social and economic conditions, is critical in order to better understand and respond to the population problems. Unfortunately, spatiotemporal data on populations and their driving factors on a large scale and over the long term are often difficult to obtain directly. We present a dataset on the Chinese population and its factors covering a remarkably long period from 1949 to 2013. The driving factors of population dynamic are selected according to the push-pull migration laws including four categories: natural environment, natural resources, economic factors and social factors. Natural environment and natural resources indicators were calculated using Geographic Information System (GIS) techniques, whereas economic and social indicators from 1949 to 2013 were collected from the China Statistical Yearbook. All of the data items are quality controlled and unified into an identical dataset with the same spatial scope and time period. The dataset is expected to be useful for understanding how humans both respond to and effect environmental change.

Keywords

Theme: population distribution, natural-social-economic data, driving factors,
Place: China, Mainland,
Temporal: 1949-2013,
Discipline: Geography, Human Geography,
Statrum:

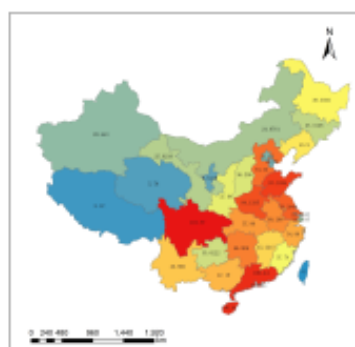
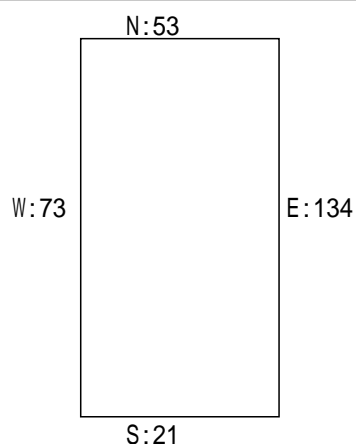
ISO 19115 Category

Category: geoscientificInformation

Detail

Project: +proj=longlat +datum=WGS84 +no_defs
Data Volume(MB): 2822
Data Format: text

Position and Thumbnail



Temporal Range

Start: 1949-01-01
End: 2013-12-31

Citation

Wang LZ., Chen LJ., Zhu YQ. Competitive spatiotemporal dataset on population distribution and its natural-social-economic driving factors from 1949 to 2013, 2015. Doi: 10.3972/card.002.2015.db

Recommended Publications

1. Harrison, P. The Third Revolution: Population, Environment and a Sustainable World (London: Penguin Books, 1993)
2. Hu H Y. The distribution of population in China. Acta Geogr. Sin, 2(2): 32-74 (1935).
3. Feng Z, Yang Y, Zhang D. Natural environment suitability for human settlements in China based on GIS. J. Geogr. Sci., 19(4):437-446 (2009)

DOI

10.3972/card.002.2015.db

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Limitation

1. The dataset can only be used for scientific researches, but not for demarcation.

Online Resources

1. <http://card.westgis.ac.cn>
2. <http://card.westgis.ac.cn>

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