Rainstorm and Flood Disaster in Hangzhou 1949~2018

I. Dataset/atlas content features

i. Abstract

The main contents of Rainstorm and Flood Disaster in Hangzhou 1949~2018 are the major rainstorm and flood disasters since 1949, mainly including the time, date, station, daily rainfall, maximum flood peak and disaster degree of the rainstorm and flood in Hangzhou.

ii. Elements (content fields)

Table 1 Description of data element content

Data name	Item (field)	Field name in Chinese	Field measure unit	Field code description	Remarks
Rainstorm and Flood Disaster in Hangzhou	date	Shijian			
Rainstorm and Flood Disaster in Hangzhou	station	Zhandian			
Rainstorm and Flood Disaster in Hangzhou	daily rainfall	Rijiangyuliang	mm		
Rainstorm and Flood Disaster in Hangzhou	max flood pea	Zuidahongfeng	m³/s		

iii. Temporal cover

The time of this dataset is 1949.6.1-2018.6.20

iv. Spatial cover

Hangzhou urban area.

II. Subject/industry scope of dataset/atlas

i. Subject scope

170 Geosciences 17015 Atmosphere Science 1701535 Climatology

560 Civil Engineering and Building Construction 56015 Basic Disciplines of Civil Engineering and Building Construction 5601530 Architectural Meteorology

560 Civil Engineering and Building Construction 56055 Municipal Engineering

570 Hydraulic Engineering 57065 Flood Control 5706510 Flood Control

5706520 Flood Prevention

610 Environmental Science and Technology and Resource Science and Technology， 61010 Basic Science of Environmental Science and Technology， 6101025 Environmental Meteorology.

ii. Industry scope

F Transportation, Warehousing and Postal Services, 51 Railway Transportation Industry 52 Road Transportation Industry 53City Public Transportation Industry 54 Water Transportation Industry 55 Air Transportation Industry

M Scientific Research, Technical Services and Geological Prospecting Industry, 7610 Meteorological Services 7673 Planning Management

N Water Conservancy, Environment and Public Facilities Management Industry, 7910 Food Control Management 8110 Municipal Public Facilities Management

III. Accuracy of dataset/atlas

i. Time frequency

(Time frequency is the representation content of datasets/atlas' time frequency, such as multi-year average, average, monthly, daily, yearly, month by month, day or hour.)

ii. Spatial reference, accuracy, and granularity

(This part is the spatial reference, accuracy, and granularity of datasets/atlas. The spatial reference includes coordinate system, projection mode, elevation system, etc. Spatial accuracy means the vector data scale or raster data resolution, etc. Spatial granularity is in accordance with the continent, the state, province, county, and other divisions.)

IV. Dataset/atlas storage management

i. Data quantity

0.0126MB

ii. Type format

The dataset is stored in the hard disk and it is table data

iii. Update management

Dataset update plan: Aperiodic updating.

V. Quality control of the dataset/atlas

i. Production mode

Data of rainstorm and flood in Hangzhou in （1949-2016） was obtained based on

Hangzhou Meteorological Service *http://zj.cma.gov.cn/dsqx/hzsqxj/*

China Meteorological Calamity Code (Zhejiang volume)

China Meteorological Disaster Yearbook (2005-2016) and electronic, digital, integrated conversion, standardized processing, computational simulation.

ii. Data sources (condition selection)

Source of data source:

Hangzhoug Meteorological Service *http://zj.cma.gov.cn/dsqx/hzsqxj/*

Hangzhou Digital Local Records Museum *http://hzszfzg.wf.sh.cn/frontIndex/init.html*

Zhejiang Meteorological Service．Zhejiang province meteorological disasters yearbook

Kegang Wen. China Meteorological Disaster Code (Beijing volume) [M]. Beijing: Meteorological Press, 2005.12.

Xiaofu Xu. China Hangzhou yearbook 2002 [M].Hangzhou：FangZhi Press,2002.12.
Xiaofu Xu. China Hangzhou yearbook 2003 [M].Hangzhou：FangZhi Press,2003.9
Xiaofu Xu. China Hangzhou yearbook 2006 [M].Hangzhou：FangZhi Press,2006.10
Xiaofu Xu. China Hangzhou yearbook 2007 [M].Hangzhou：FangZhi Press,2007.10
Baoshui Xu. China Hangzhou yearbook 2009 [M].Hangzhou：FangZhi Press,2009.9
Baoshui Xu. China Hangzhou yearbook 2010 [M].Hangzhou：FangZhi Press,2010.9
Baoshui Xu. China Hangzhou yearbook 2011 [M].Hangzhou：FangZhi Press,2011.9
Baoshui Xu. China Hangzhou yearbook 2012 [M].Hangzhou：FangZhi Press,2012.10
Baoshui Xu. China Hangzhou yearbook 2013 [M].Hangzhou：FangZhi Press,2013.11
Baoshui Xu. China Hangzhou yearbook 2015 [M].Hangzhou：FangZhi Press,2015.10
Baoshui Xu. China Hangzhou yearbook 2017 [M].Hangzhou：FangZhi Press,2017.12

Methods of the data acquisition and processing (condition selection)

Acquisition method: Book sorting on the net and field survey.

Processing method: Data registration and Object-oriented classification method.

VI. Sharing and usage method of the dataset/atlas
i. Sharing methods and restrictions
Fully opened sharing
ii. Contact information of the sharing service (condition selection)
Contact Information for Service：No. 46, Zhongguancun South Street, Haidian District, Beijing
iii. Conditions and methods of usage
The dataset can be read by excel software

VII. Intellectual property rights of the dataset/atlas
i. Property rights (optional)
Dataset ownership information: Institute of Geographic Sciences and Natural Resources Research, CAS
ii. Reference method of the dataset/atlas
<*Rainstorm and Flood Disaster in Hangzhou* Dataset/Institute of Geographic Sciences and Natural Resources Research, CAS>
iii. Usage contacts of the datasets/atlas
Name: Service group of Disaster Risk Reduction Knowledge Service System of IKCEST
Address: A11 Datun Road, Chaoyang District, Beijing.
Postcode: 100101
Telephone: 010-64889048-8006
Email: ikcest-drr@lreis.ac.cn

VIII. Others (optional)
In addition to the above, other information must also be explained.

Data documentation author information			
Data documentation author	Fang Yuan	Update time	
Organization	Wuhan university		
Contact information	15927651717		

Address	Luojia mountain in Wuchang District, Wuhan, Hubei	Postcode		430061
Telephone	15927651717	E-mail	593726143@qq.com	