

China Crater, Hot Springs, Earth Heat Flow**Data Documentation****I. Dataset content features****i. Abstract**

The datasets are geological data of National, The national hot springs, craters, and geothermal heat code design are based on the dynamics of the lithosphere of 1:4 million China and its adjacent waters. The maps pass a series of geological, geophysical, geodynamic and geochemical parameters. The elements provide a comprehensive overview of the geology and geophysical processes and lithospheric dynamics that are present in China today and in the Cenozoic. They are collected and organized by Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, They are mainly displayed in ArcGIS in shp format. The data can be used in the fields of geography science, environmental science, ecology, socio-economics, and population. Scientific research and education departments and central and local government decision-making departments provide data support.

ii. Elements (content fields)

The datasets are named as “China Crater, Hot Springs, Earth Heat Flow”, which include 5 data types. There are mainly 5 data name and they are described as table 1.

Table 1 Description of data element content

Data name	Item (field)	Field name in Chinese	Field measure unit	Field code description	Remarks
China Crater, Hot Springs, Earth Heat Flow	spa	温泉			
China Crater, Hot Springs, Earth Heat Flow	Quaternary Crater	第四纪火山口			
China Crater, Hot Springs, Earth Heat Flow	Tertiary Crater	第三纪火山口			
China Crater, Hot Springs, Earth Heat Flow	More reliable geothermal hotspot	较可靠大地热点			
China Crater, Hot Springs, Earth Heat Flow	Low reliability earth hotspot	低可靠大地热点			

iii. Temporal cover

Time of the dataset

iv. Spatial cover

The covered area of the dataset includes total entire china region.

II. Subject/industry scope of dataset/atlas

i. Subject scope

Geography, Earth Science, environmental sciences, regional sustainable development, .

ii. Industry scope

Urban and rural development services, rural construction and planning.

iii. Other classifications (optional)

III. Accuracy of dataset/atlas

i. Time frequency

Yearly.

ii. Spatial reference, accuracy, and granularity

The geographic coordinate system of the dataset is Equal-conic projection, The data format is E00.

IV. Dataset/atlas storage management

i. Data quantity

The volume of the dataset is 18MB.

ii. Type format

The dataset is stored in hard disk in E00 format.

iii. Update management

Unscheduled update.

V. Quality control of the dataset/atlas

i. Data sources (condition selection)

Remote sensing imagery and Geological data

ii. Methods of the data acquisition and processing (condition selection)

Through remote sensing image data, after data preprocessing, vector data in the whole country is obtained, geological data of China are added, and the national volcanic hot spring geothermal data distribution map is obtained. The software used is ArcGIS, ENVI, etc.

iii. Methods of the data acquisition and processing (condition selection)

VI. Sharing and usage method of the dataset/atlas

i. Sharing methods and restrictions

Full and open sharing.

ii. Contact information of the sharing service (condition selection)

Online link address:

Contact Information for Service:

Name: Yuan Yuele

Address: 11A, Datun Road, Chaoyang District, Beijing, 100101, China, Institute of Geographic Sciences and Natural Resources Research, CAS.

Zip Code: 100101

E-mail: wdc-rre@lreis.ac.cn

iii. Conditions and methods of usage

The dataset can be read by ArcGIS software.

VII. Intellectual property rights of the dataset/atlas

i. Property rights (optional)

Intellectual property of the dataset belonged to Institute of Geographic Sciences and Natural

Resources Research, CAS.

ii. Reference method of the dataset/atlas

China volcanic hot spring geothermal data, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences [Establishment organization], 2005. World Data Center for Renewable Resources and Environment [Communication agency], 2017-3-4.

iii. Usage contacts of the datasets/atlas

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VIII. Others (optional)

In addition to the above, other information must also be explained.

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