A Big Earth Data Platform for Three Poles

**Empirical formula calculation data of final bottom elevation of dam breach**

1、Description

Data content: empirical formula calculation data of final bottom elevation of dam breach  
Data source: a large database containing 1230 dam cases around the world based on literature retrieval.  
Collection method: processing and fitting through Excel data processing software.  
Data quality description: in order to solve the problem of assigning the final bottom elevation of the dam breach, based on the collected data of dam height and breach depth in the dam database, combined with the classification method of overtopping breach dam body erosion proposed by briaud in 2008, the dams were divided into three types: high, medium and low erosion degrees. Then the dam height and breach depth of the dam plug dam with different erosion degrees were regressed, The empirical formula for the depths of dam breaches with different erosion degrees were also fitted, and then the final bottom elevations of dam breaches were determined.

2、Keywords

Theme：landslide,Natural Disaster,Disaster  
Discipline：Human-nature Relationship  
Places：Global  
Time：2018年至2021年

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.03MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：0.0 | - |
| west：0.0 | - | east：0.0 |
| - | south：0.0 | - |

5、Time frame:2018-10-31 16:00:00+00:00--2021-10-30 16:00:00+00:00

6、Reference method

References to data:

ZHANG Xinhua . Empirical formula calculation data of final bottom elevation of dam breach. A Big Earth Data Platform for Three Poles, doi:10.11888/HumanNat.tpdc.2720752022

References to articles:

7、Supporting project information

Catastrophic mechanisms and risk control of disastrous landslides in the Tibetan Plateau

8、Data resource provider

name: ZHANG Xinhua   
unit: Sichuan University  
email: xhzhang@scu.edu.cn