A Big Earth Data Platform for Three Poles

**Based on indoor model test data and image data of collapse landslide source under the influence of different factors**

1、Description

The effects of different control factors such as clay content, width height ratio, upstream inflow flow and initial water content on the collapse of gully blocking landslide material source are studied. Through the analysis of the collapse process of weir plug body, the collapse modes of weir plug body are classified. This paper summarizes the longitudinal evolution law of dam body contour under different failure modes, calculates the flow depth, flow velocity and erosion rate, analyzes the temporal and spatial evolution process of dam body under different failure modes, discusses the effects of different factors on the gravity of dam break debris flow and peak discharge, and establishes the mathematical model of dam break discharge amplification coefficient of weir plug dam, Two plugging points in the study area and one plugging point in Ginkgo Pinggou are selected for verification, but there are some limitations in practical application due to the complexity of weir plug dam failure.

2、Keywords

Theme：Engineering Geology,Geologic Hazard  
Discipline：Terrestrial Surface,Solid earth  
Places：laboratory model test  
Time：NONE

3、Data details

1.Scale：None

2.Projection：

3.Filesize：20.5MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：31.54 | - |
| west：104.68 | - | east：104.7 |
| - | south：31.53 | - |

5、Time frame:None--None

6、Reference method

References to data:

ZHANG Youyi . Based on indoor model test data and image data of collapse landslide source under the influence of different factors. A Big Earth Data Platform for Three Poles, doi:10.11888/Terre.tpdc.2721302022

References to articles:

7、Supporting project information

Initiation pattern and evaluation method for dynamic reserves of differently originated source materials of channelized debris flows in strong earthquake area

8、Data resource provider

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