A Big Earth Data Platform for Three Poles

**Simulation data of interaction between debris flow and slit dam (2018-2021)**

1、Description

Data content: this data used the open source code ESYS-Particle to simulate the interaction between debris flow and slit dam
Data source: this numerical simulation data was collected and recorded by computer software (using open source code ESYS-Particle).
Data quality description: the data were mainly images and video GIF files, which were processed by video editing and image processing software.
Data application: four basic interaction stages of debris flow impacting slit dam were revealed: initial impact stage, uplift stage, accumulation stage and deposition stage. The interception efficiency of slit dam with different relative column spacing to particles of different shapes was analyzed.

2、Keywords

Theme：Geological hazards,Natural Disaster
Discipline：Human-nature Relationship
Places：Qinghai Tibet Plateau
Time：2018-2021

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.14MB

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--2021-10-31 03:59:59+00:00

6、Reference method

References to data:

XU Nuwen . Simulation data of interaction between debris flow and slit dam (2018-2021). A Big Earth Data Platform for Three Poles, doi:10.11888/HumanNat.tpdc.2720372022

References to articles:

7、Supporting project information

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

8、Data resource provider

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