A Big Earth Data Platform for Three Poles

**Simulation data of debris flow migration and accumulation process down the slope (2018-2021)**

1、Description

Data content: Taking Baige landslide in 2018 as an example, this data simulated the down-hill migration and accumulation process of debris flow on the slope
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 results: Taking the latest Dujiang landslide as an example, the simulation of the downward migration and accumulation process of debris flow along the slope will provide a theoretical basis for the evaluation of landslide disaster effect from the development of similar strata and slope structure.

2、Keywords

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

3、Data details

1.Scale：None

2.Projection：

3.Filesize：4.29MB

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:

XU Nuwen . Simulation data of debris flow migration and accumulation process down the slope (2018-2021). A Big Earth Data Platform for Three Poles, doi:10.11888/HumanNat.tpdc.2720382022

References to articles:

7、Supporting project information

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

8、Data resource provider

name: XU Nuwen
unit: Sichuan University
email: xunuwen@scu.edu.cn