**东川站蒋家沟土壤水分温度数据说明**

1. **1966年径流场(103.1343502°, 26.24484337°)土壤水分为人工取样采用烘干法分析，坐标可能存在偏差。**
2. **2017年-2023年土壤水分监测设备**

* 传感器型号：ms-20
* 生产厂家：大连折勤科技有限公式
* 量程：水分量程0-100%，温度测量量程-40-80℃
* 水分测量精度： 0-53%范围内为±2%，53-100%范围内为±4%
* 温度测量精度：±0.4℃

**设备安装坐标见下表：**

|  |  |  |
| --- | --- | --- |
| 站点 | 经度（°） | 纬度（°） |
| 门前沟1号支沟 | 103.164262 | 26.253563 |
| 蒋家沟D3断面右岸 | 103.153678 | 26.251802 |

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土壤水分温度传感器

**备注：**

（1）请在论文发表、专利申请、专著出版等工作中标注数据来源，并在公开发表的中文出版物的致谢部分标明“感谢中国科学院东川泥石流观测研究站为本研究提供了相关数据”，在英文论文致谢部分标明“Dongchuan Debris Flow Observation and Research Station (DDFORS), Chinese Academy of Sciences, which provided the field observation data for this study.”.

（2）更多详细信息见东川站网页（中文网站http://nsl.imde.ac.cn/；英文网站http://nsl.imde.ac.cn/en/）.

（3）数据问题可联系魏丽（weili@imde.ac.cn）和宋东日（drsong@imde.ac.cn）.

（4）2025年7月11日对部分错误数据进行了修正，1965年径流场土壤含水量数据钟相对土壤湿度 Relative water content 单位修改为 “%”。请以最新发布的数据为准。该数据为原始数据，数据与安装地点土壤结构，环境条件有关，请谨慎使用。

**Description of soil Moisture and temperature monitoring at Jiangjia Ravine**

**（1）In 1966, soil moisture in the runoff plot (103.1343502°, 26.24484337°) was manually sampled and analyzed using the oven drying method.** **The coordinates are determined based on textual descriptions, which may introduce some positional inaccuracies.**

**（2）Moisture and temperature sensor used during 2017 and 2023**

* Sensor Model: ms-20
* Manufacturer: Dalian Zheqin Technology Co., Ltd.
* Measurement Range: moisture (0-100%), temperature (-40 to 80°C)
* Moisture Measurement Accuracy: ±2% within the range of 0-53%,±4% within the range of 53-100%
* Temperature Measurement Accuracy: ±0.4°C

**The installation coordinates are shown in the table below:**

|  |  |  |
| --- | --- | --- |
| **Station** | **Longitude（°）** | **Latitude（°）** |
| Branch Ditch No.1 in Menqian Gully | 103.164262 | 26.253563 |
| The right bank of Section D3 | 103.153678 | 26.251802 |



Soil moisture and temperature sensor

**Note:**

(1) In works such as paper, patent, and monograph, please indicate the data source. In the acknowledgments section of Chinese publications, include the statement “感谢中国科学院东川泥石流观测研究站为本研究提供了相关数据” . In the acknowledgments section of English publications, please state, “We would like to thank the Dongchuan Debris Flow Observation and Research Station (DDFORS), Chinese Academy of Sciences, for providing the field observation data for this study.”

(2) For more detailed information, please visit the website of Dongchuan Debris Flow Observation and Research Station (DDFORS) (Chinese website: http://nsl.imde.ac.cn/; English website: http://nsl.imde.ac.cn/en/).

(3) For any data-related issues, please contact Li Wei (weili@imde.ac.cn) and Dongri Song (drsong@imde.ac.cn).

**（4）Data Revision Notice (2025-07-11):  
Corrections have been applied to identified inaccuracies within the dataset. We have corrected the relative water content in the table (Soil moisture of runoff plot at Jiangjia Ravine in 1966) as percentage (%). This dataset constitutes raw observational data inherently linked to site-specific soil structures and environmental conditions. Users must exercise caution when utilizing these data.**