

The Information of Ping Ding Station

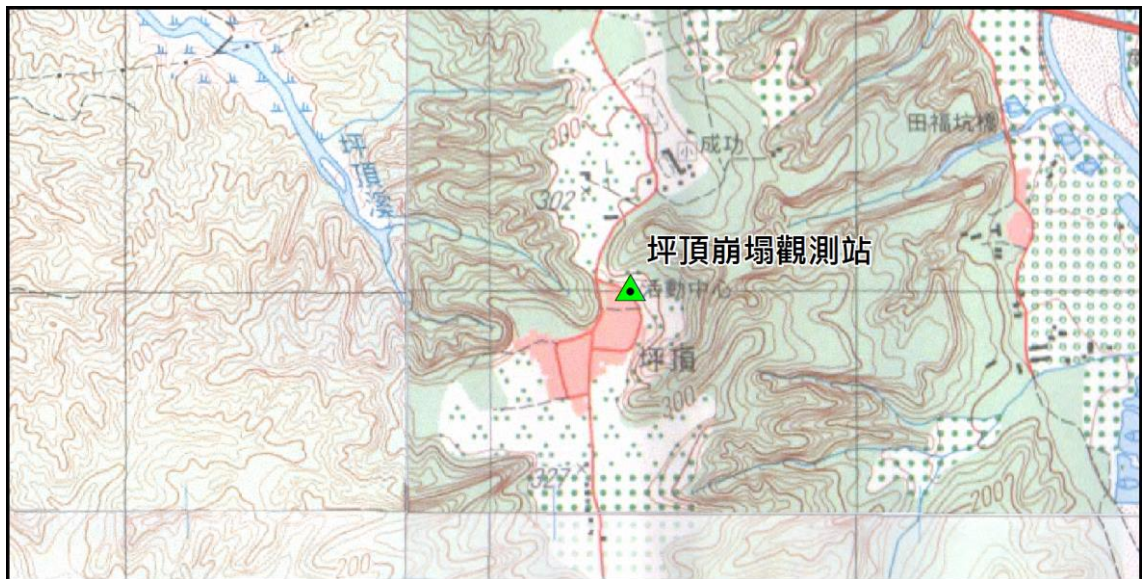
In 2008, typhoon Kalmaegi caused Pingding Village slope collapse. In order to monitor the slope deformation at the front and back of collapse, and continuously observe whether the slope has slide, Soil and Water Conservation Bureau completed the construction of the Ping Ding station in Pingding Village, Linnei Township, Yunlin County in 2008.

| The information of station | | | Last updated : 2023/06/30 |
|--|--|-------------------------------|---|
| District | Pingding Village, Linnei Township, Yunlin County | Debris Number | None |
| Drainage | Upstream catchment in Zhuoshui river | River | Pingding river |
| The value of rainfall warning | 50mm rainfall per hour or 200mm daily accumulated precipitation | | |
| Disaster | Collapse | River length | 626.67 km |
| Catchment area | 692 hectares | Geology | Quaternary Period |
| Slope | 30~50° | Hazards | Collapse |
| Elevation | 306 m | Coordinate (TWD97) | X coordinate : 213215 Y coordinate : 2627817 |
| Protected object | Residential | Public building | Transportation facilities |
| | 5~15 | Yes | Roads |
| Historical disaster | The Jiji earthquake in 1999. Typhoon Mindulle and typhoon Aere in 2004. The extremely heavy rain on June 9, 2006. The rainfall on May 22, 2007. | | |
| Monitoring results | <ol style="list-style-type: none"> 1. In April 18, 2012 (22:13). Ping Ding accumulated precipitation risen to the yellow warning (30mm rainfall per hour and 100mm daily accumulated precipitation), but did not occur collapse. 2. In May 28, 2012 (00:42). Ping Ding accumulated precipitation risen to the yellow warning (30mm rainfall per hour and 100mm daily accumulated precipitation), but did not occur collapse. 3. In May 28, 2012 (01:03). Ping Ding accumulated precipitation risen to the red warning (50mm rainfall per hour and 250mm | | |

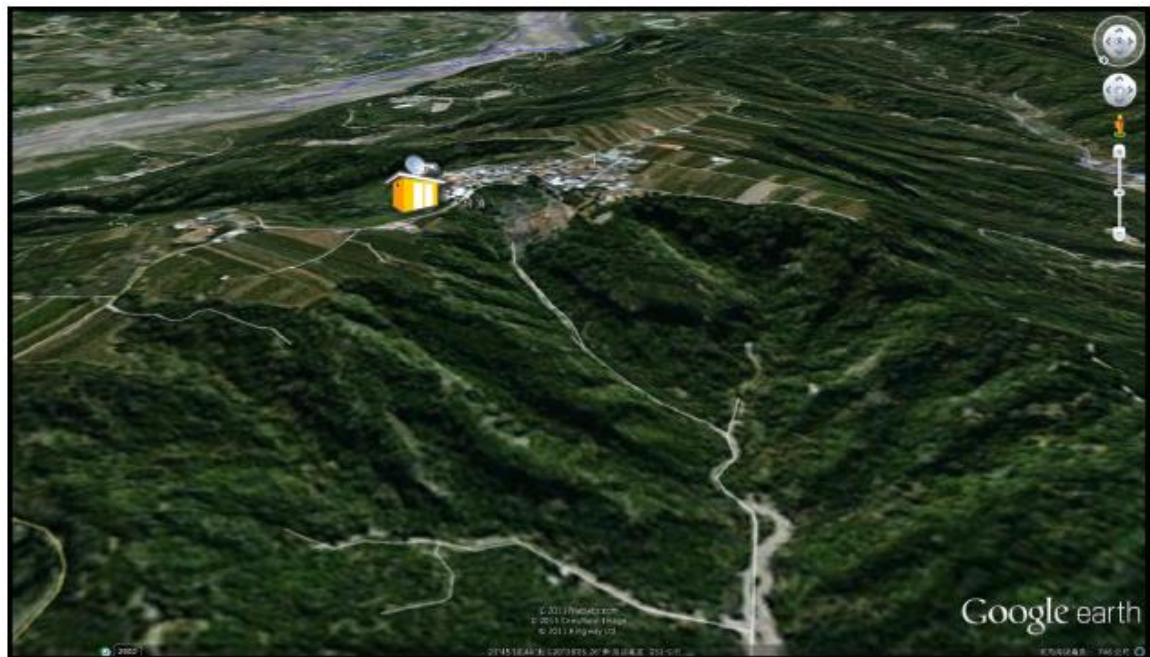
| | |
|--|---|
| | <p>daily accumulated precipitation or 400mm accumulated precipitation), but did not occur collapse.</p> <p>4. In July 19, 2012 (17:38). Ping Ding accumulated precipitation risen to the warning, but did not occur collapse.</p> <p>5. In July 24, 2012 (17:04). Ping Ding accumulated precipitation risen to the warning, but did not occur collapse.</p> <p>6. In 2012, typhoon Saola caused Ping Ding accumulated precipitation risen to the warning (11:52), but did not occur collapse.</p> <p>7. The extremely heavy rain on May 20, 2015. Ping Ding accumulated precipitation risen to the warning (05/24 19:00), but did not occur collapse.</p> <p>8. In 2015, typhoon Soudelor caused Ping Ding accumulated precipitation risen to the warning (08/08 21:53), but did not occur collapse.</p> <p>9. In July 30, 2016 (16:19). Ping Ding station accumulated precipitation risen to the warning (50mm rainfall per hour), but did not occur collapse.</p> <p>10. In September 4, 2016 (00:39). Ping Ding station accumulated precipitation risen to the warning (50mm rainfall per hour), but did not occur collapse.</p> <p>11. In September 17, 2016 (03:54). Ping Ding station accumulated precipitation risen to the warning (50mm rainfall per hour), but did not occur collapse.</p> <p>12. The extremely heavy rain on June 1, 2017. Ping Ding accumulated precipitation risen to the warning (06/03 06:34), but did not occur collapse.</p> <p>13. In August 23, 2018. Tropical Depression caused Ping Ding accumulated precipitation risen to the warning (08/23 13:34), but did not occur collapse.</p> |
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Geographical position map

Basic topographic map



Three-dimensional map



The instrument erection of Ping Ding station

Position map of instrument erection



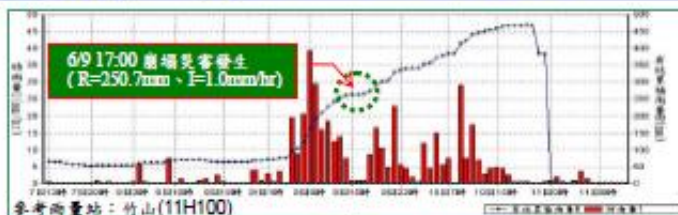
Instrument description of Ping Ding station

| Instrument name | Purpose | Quantity |
|---------------------|--|----------|
| CCTV | Monitoring the live situation of river, gather the information of real-time image on site. | 3 |
| Rain gauge | Measuring the local rainfall of monitoring station to be an important basis for release the debris flow warning. | 2 |
| Soil moisture meter | The soil moisture meter can record the water saturation of soil, provide the different soil and the relationship between moisture content with debris flow analysis research. | 1 |
| Extensometer | The extensometer is mainly used to monitor the sliding of the surface slope in a large area. When the slope is unstable, the displacement will occur between non-move point and sliding area, then can know the situation of slope displacement. | 4 |
| Tiltmeter | It is mainly used to monitor the lateral displacement and displacement direction of slope soil or retaining wall facilities, then can know the status of displacement. | 4 |

The disaster report

95 年 0609 豪雨

雲林縣—林內鄉坪頂村



950609 豪雨-雲林林內-001

- 災害位置：林內鄉坪頂村(林北坑)
- 災害發生時間：6月9日17時
- 災害類型：崩塌災害(山崩)
- 有效累積雨量：250.7mm

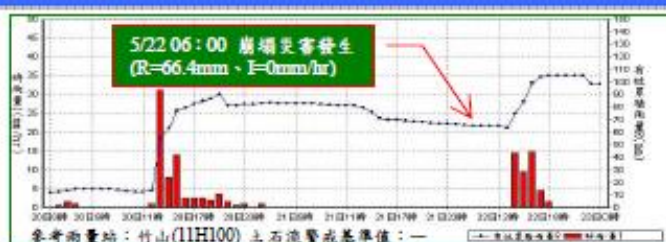
災害描述與統計：

- 雲61線公路之坪頂村入口路段
基邊坡土石崩塌約20公尺。
- 人命損失：0人
- 倉庫受損：2棟



96 年其他

雲 林 縣—林內鄉坪頂村



- ◆災害位置：雲林縣林內鄉坪頂村
- ◆災害發生時間：5月22日6時
- ◆災害類型：崩塌災害
- ◆有效累積雨量：66.4mm
- ◆災情描述與統計：
 - ✓ 貫 81 線公路之坪頂村入口段路基邊坡土石崩塌，路基流失約 40 公尺。

