



110-2 地圖與地理資訊系統

LAB 08 TimeSlider

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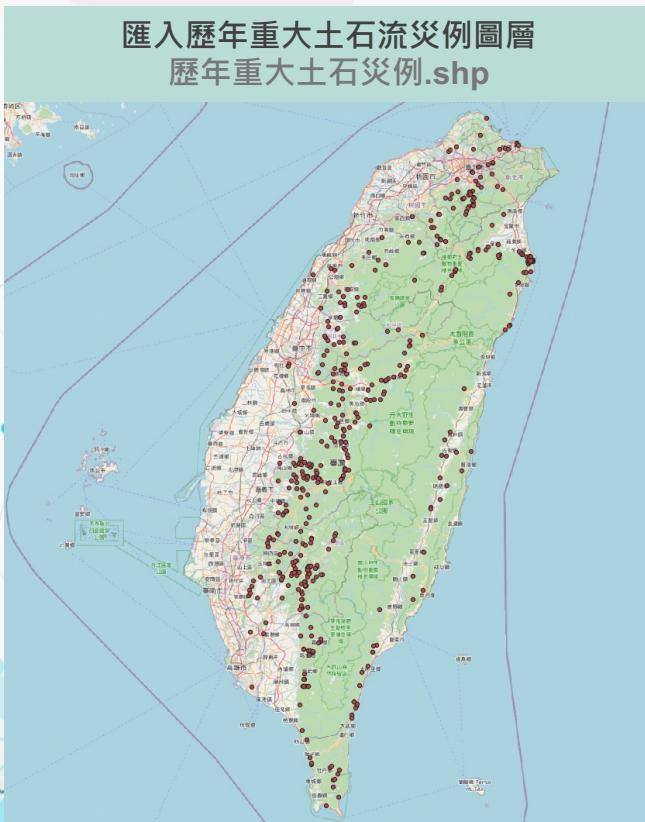
Time Slider



實習使用圖資

- 歷年重大土石流災例分布圖（自行下載） TWD97/TM2(EPSG:3826)
<https://data.gov.tw/dataset/143435>
- 累積雨量圖（LAB6累積雨量分布地圖所做出來的成果）
3H.tif / 6H.tif / 12H.tif / 24H.tif

時間資料處理 – 產生時間欄位(Date)



屬性欄位格式為String

| ID | y | Year | EventID | DisasterTy | Location | FileUrl | DisasterTi |
|----|---------|------|---------|------------|------------|----------------|-------------------------|
| 1 | 642,366 | 97 | 97-0093 | 沖水,洪水 | 連續滑坡 | https://246... | 2008/07/18 00:00:00.000 |
| 2 | 645,429 | 97 | 97-0098 | 土石流 | 投69號里程4... | https://246... | 2008/07/18 00:00:00.000 |
| 3 | 645,069 | 97 | 97-0099 | 土石流 | 災害地點位... | https://246... | 2008/07/14 00:00:00.000 |
| 4 | 638,130 | 97 | 97-0101 | 崩塌 | 伊達邵商店街 | https://246... | 2008/07/18 00:00:00.000 |
| 5 | 633,079 | 97 | 97-0096 | 崩塌 | 民和橋上游 | https://246... | 2008/07/18 00:00:00.000 |
| 6 | 645,176 | 97 | 97-0094 | 土石流 | 卓社隧道出口旁 | https://246... | 2008/07/18 00:00:00.000 |
| 7 | 674,455 | 97 | 97-0095 | 地滑 | 力行產業道路... | https://246... | 2008/07/18 00:00:00.000 |
| 8 | 635,941 | 97 | 97-0097 | 土石流 | 災害地點位... | https://246... | 2008/07/18 00:00:00.000 |
| 9 | 585,550 | 97 | 97-0085 | 地滑 | 嘉義縣公車中... | https://246... | 2008/07/18 00:00:00.000 |
| 10 | 570,460 | 97 | 97-0083 | 土石流 | 173縣道21.6k | https://246... | 2008/07/19 00:00:00.000 |

屬性欄位格式為String

Only update 0 selected features

Create a new field

Output field name: Date

Output field type: Date

Output field length: 8 Precision: 3

Expression: to_date("DisasterTi")

利用Field Calculator將String轉為Date

屬性欄位格式為Date

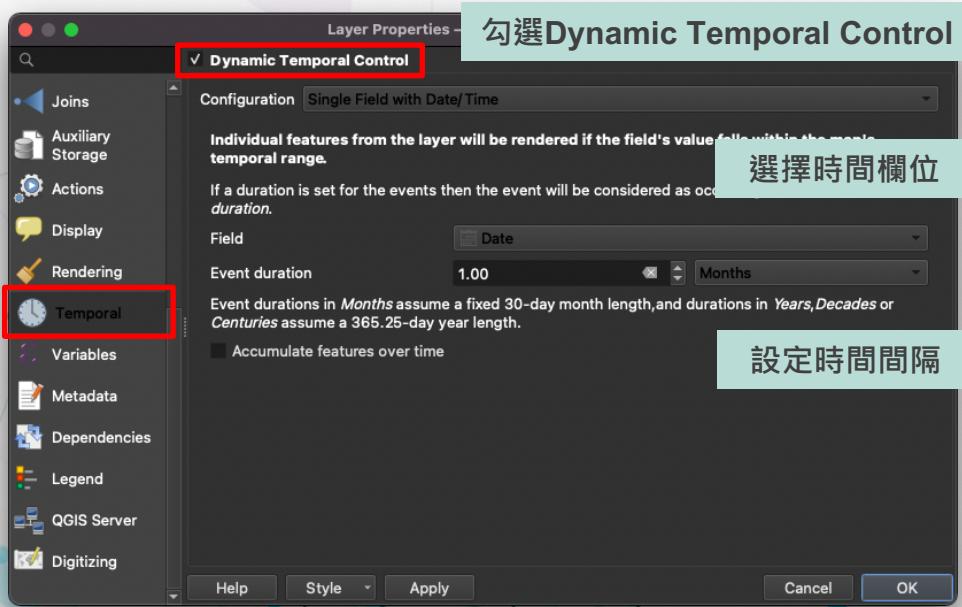
屬性欄位格式為Date

| DisasterTi | ReviewDate | Date |
|-------------------------|------------|------------|
| 2008/07/18 00:00:00.000 | 2009-0... | 2008-07-18 |
| 2008/07/18 00:00:00.000 | 2009-0... | 2008-07-18 |
| 2008/07/14 00:00:00.000 | 2009-0... | 2008-07-14 |
| 2008/07/18 00:00:00.000 | 2009-0... | 2008-07-18 |
| 2008/07/18 00:00:00.000 | 2009-0... | 2008-07-18 |
| 2008/07/18 00:00:00.000 | 2009-0... | 2008-07-18 |
| 2008/07/18 00:00:00.000 | 2009-0... | 2008-07-18 |
| 2008/07/18 00:00:00.000 | 2009-0... | 2008-07-18 |
| 2008/07/18 00:00:00.000 | 2009-0... | 2008-07-18 |
| 2008/07/18 00:00:00.000 | 2009-0... | 2008-07-18 |
| 2008/07/19 00:00:00.000 | 2009-0... | 2008-07-19 |

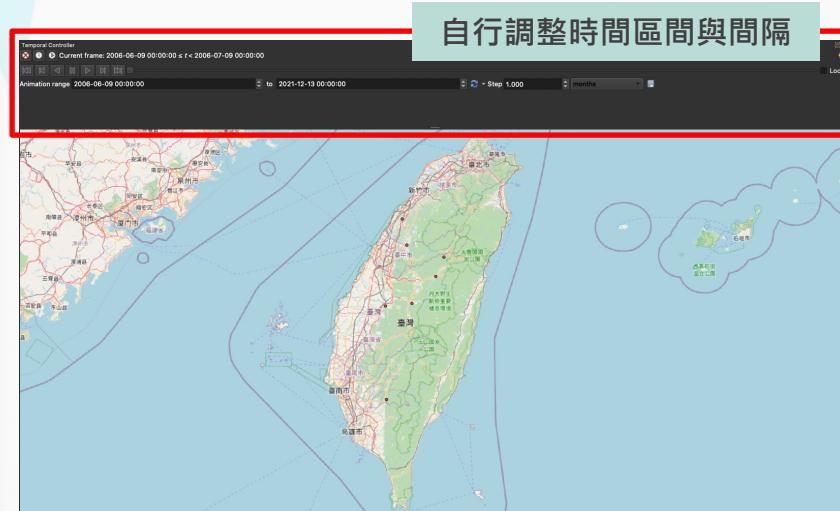
屬性欄位格式為Date

時間資料處理 – 向量資料動態時間控制

Properties > Temporal

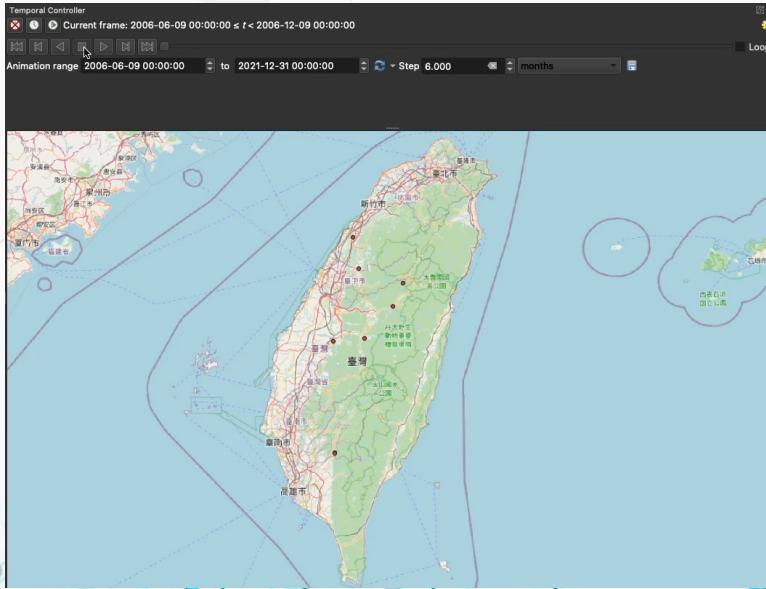


View > Panels > Temporal Controller

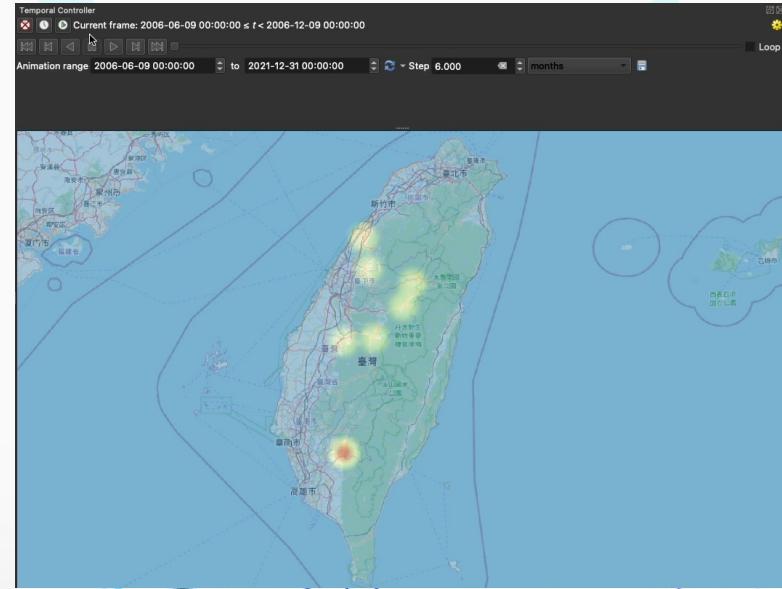


時間資料處理 – 向量資料動態時間控制

樣式為Single Symbols



樣式為Heatmap



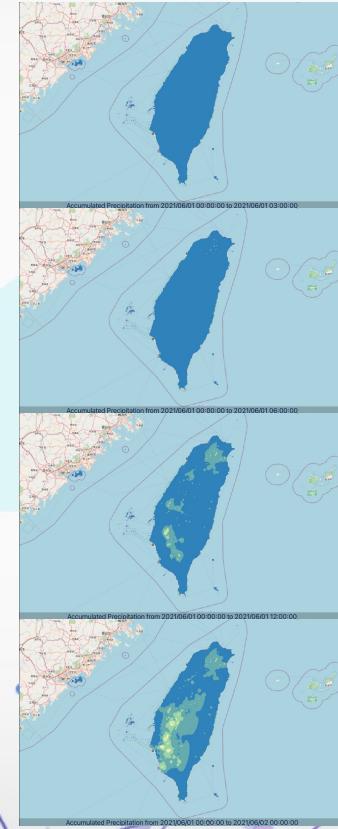
時間資料處理 – 網格資料動態時間控制

Properties > Temporal

The figure displays four QGIS 'Layer Properties' dialog boxes, each titled with a different temporal range for precipitation accumulation:

- Layer Properties – 3H – Temporal:** Shows '累積3小時雨量' (Accumulated Precipitation from 2021/06/01 00:00:00 to 2021/06/01 03:00:00).
- Layer Properties – 6H – Temporal:** Shows '累積6小時雨量' (Accumulated Precipitation from 2021/06/01 03:00:00 to 2021/06/01 06:00:00).
- Layer Properties – 12H – Temporal:** Shows '累積12小時雨量' (Accumulated Precipitation from 2021/06/01 06:00:00 to 2021/06/01 12:00:00).
- Layer Properties – 24H – Temporal:** Shows '累積24小時雨量' (Accumulated Precipitation from 2021/06/01 12:00:00 to 2021/06/02 00:00:00).

In each dialog, the 'Temporal' tab is selected, and the 'Fixed time range' option is chosen. The start and end dates are set to specific times on June 1st, 2021.



時間資料處理 – 放置時間標籤

View > Decorations > Title label

