

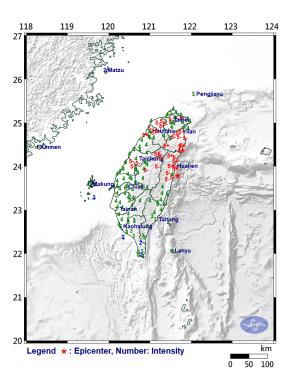
0403 Hualien Earthquake 1st Impacts Assessment Report at Central Emergency Operation Center

National Science and Technology Center for Disaster Reduction

2024.04.03 10:00

Geological profile (1) near the hypocenters





CWA EARTHQUAKE REPORT

Earthquake No.: 113019

Origin time (Taiwan Standard Time: GMT+8):

4/ 3/2024 7:58: 9.9

Epicenter: 23.77°N, 121.67°E,

i.e. 25.0 km SSE of Hualien County Hall

Focal depth: 15.5 km Magnitude (ML): 7.2

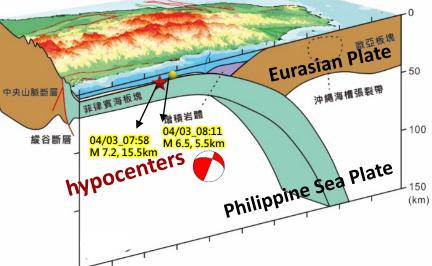
Local Largest Intensity:

Chiayi County Yunlin County

Kaohsiung City Chiayi City

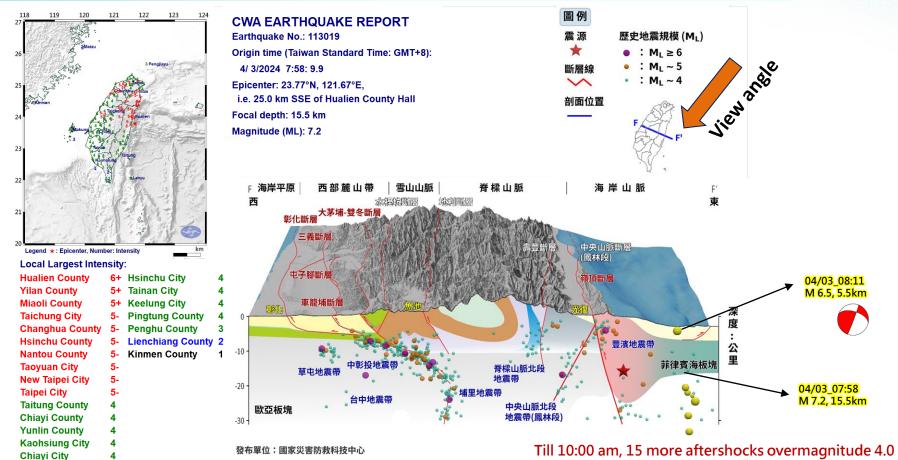
6+ Hsinchu City Hualien County **Yilan County** 5+ Tainan City **Miaoli County** 5+ Keelung City **Taichung City** 5- Pingtung County **Changhua County Penghu County** Lienchiang County 2 **Hsinchu County Nantou County** Kinmen County **Taoyuan City New Taipei City** Taipei City **Taitung County**





Geological profile (2) near the hypocenters

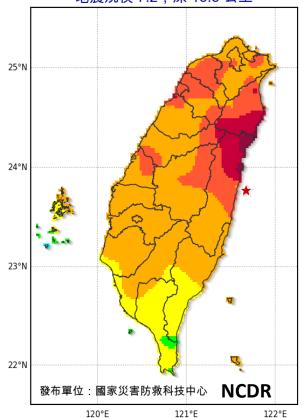




Shake Map



2024 年 04 月 03 日 07 時 58 分 地震規模 7.2,深 15.5 公里



Area	Intensity	PGV (cm/S)	PGA (gal)
Hualien	6+	84.0	1109
Yilan	5+	49.21	418.64
Nantou	5-	25.84	184.74
Hsinchu	5-	26.23	184.74
New Taipei	5-	22.47	172.76

圖例

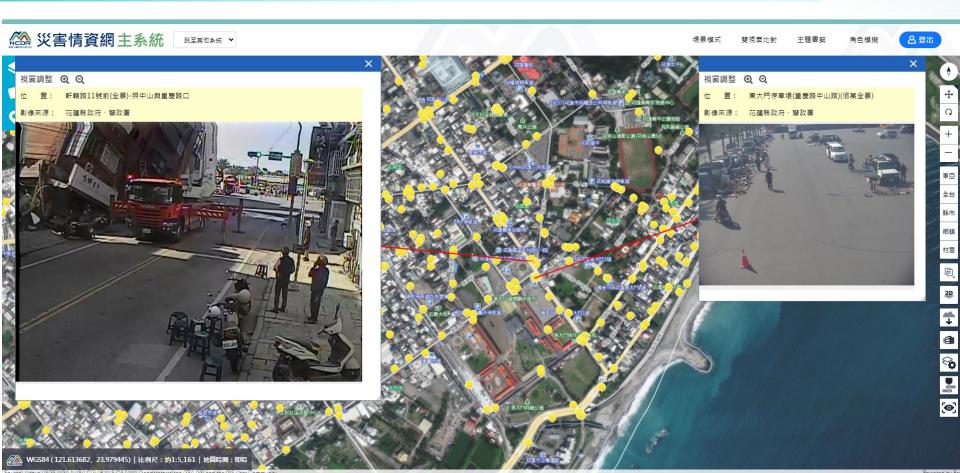
★: 震央 epicenter



資料來源:中央氣象署 Source: CWA

Damaged building in Hualien



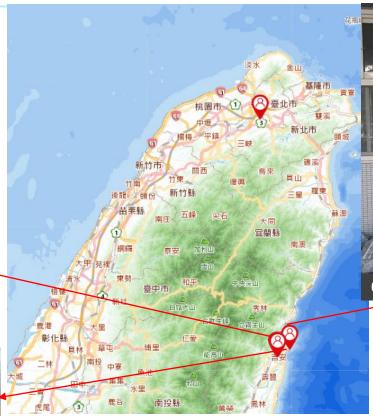


0403 Damages after Hualien Earthquake (crowdsourcing)





08:14 Hualien City





08:25 Hualien Girls' High School

Damages in Tongmen Village, Xiulin Township, Hualien County.



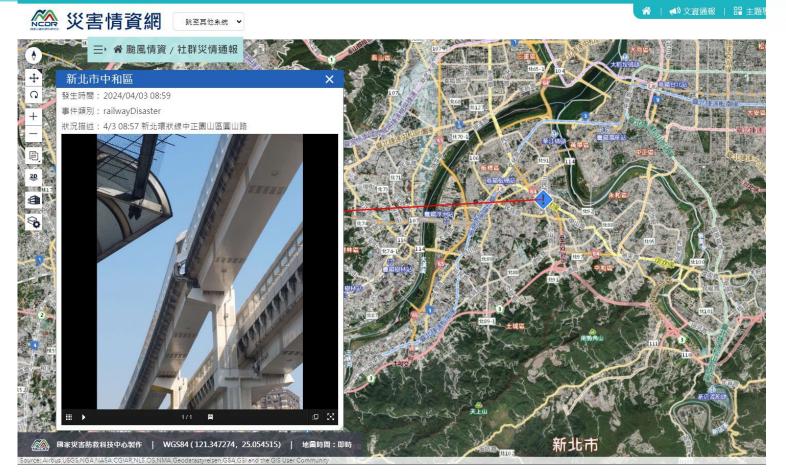






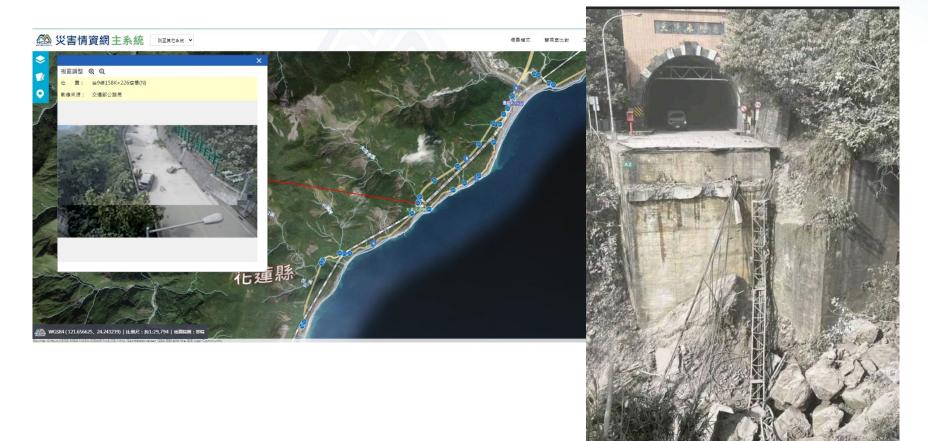
Damage to the elevated subway bridge in New Taipei City





Damage to HW#9 at Daqingshui Tunnel





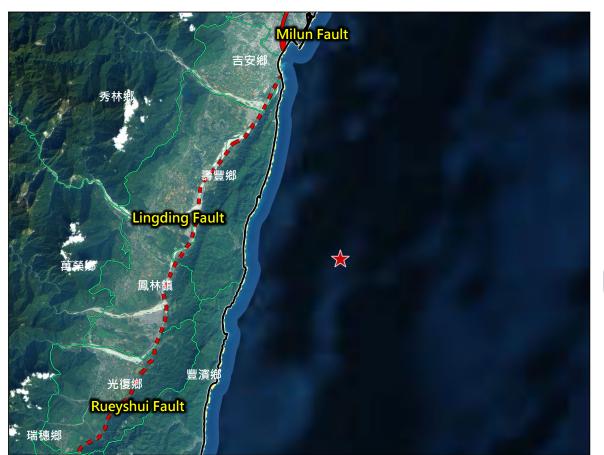
Falling-rock damages in HW#8 and HW#14





Fault lines near the epicenter





Num.	Fault
1	Lingding
2	Milun
3	Rueyshui

圖例



震央

活動斷層分級: Fault Classifications

—— 第一類活動斷層 Holocene Active Fault

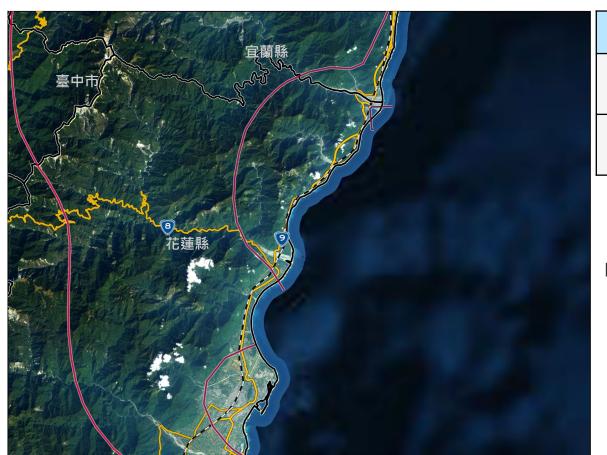
第二類活動斷層

Late Pleistocene Active Fault

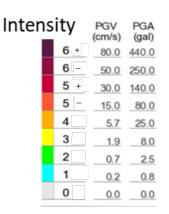
= = 斷層位置被掩覆 或是推定位置

Transportation systems under high shaking intensity





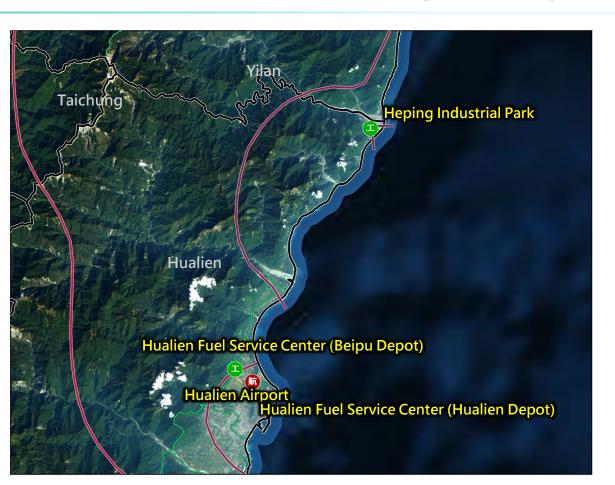
Highway	HW#8, HW#9. HW#9C, HW#9D,HW#11
Railway	North Link Line Hualien Taitung Line



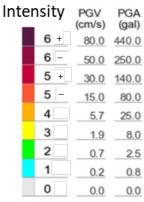


Facilities under high shaking intensity





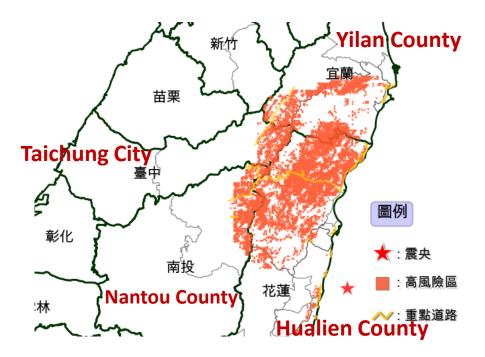
	Facilities	
Hualien	Heping Industrial Park, Hualien Airport, Hualien Fuel Service Center (Hualien Depot), Hualien Fuel Service Center (Beipu Depot)	



Areas with a high risk of landslides



- Landslide hotspots by county or city: Taichung City, Nantou County, Yilan County, Hualien County
- Landslide hotspots by highway: HW#8, HW#9, HW#9C, HW#9D, HW#11, HW#14, and some rural roads

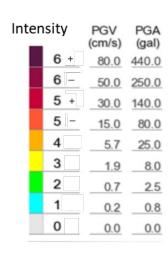


Aeras	Hotspots
Taichung City	Heping District
Nantou County	Ren'ai Township
Yilan County	Su'ao Town, Su'ao Town, Nan'ao Township, Datong Township
Hualien County	Wanrong Township, Ji'an Township, Guangfu Township, Fengbin Township, Hualien City, Shoufeng Township, Xiulin Township

High-voltage power towers under high shaking intensity







Recommendations



- According to the Central Weather Administration report, strong shakings cover most areas of Taiwan, and areas with high population density should prioritize safety inspections, especially of administrative units and schools.
- Under the intense shaking, the functions and operation of essential utilities need safety inspections.
- Given the intense shaking in certain areas, verifying the operations of transportation systems is of utmost importance. This will not only facilitate subsequent rescue operations and supply distribution but also reassure the public about the continuity of essential services.
- Immediate action is required to verify the status of the water and electricity supply and the impact on transportation in the earthquake-affected areas. This urgency underscores the need for prompt and decisive measures.
- > The spatial community teams are advised to prioritize aerial photography planning for Hualien County, Yilan County, and Nantou County to assist in subsequent disaster assessment.
- Relevant earthquake disaster information should be provided promptly, reminding the public to be cautious of aftershocks and to avoid entering dangerous buildings and areas.
- Coordinating with relevant agencies to use parks and open spaces to support many people's emergency evacuation and shelter should be expedited.