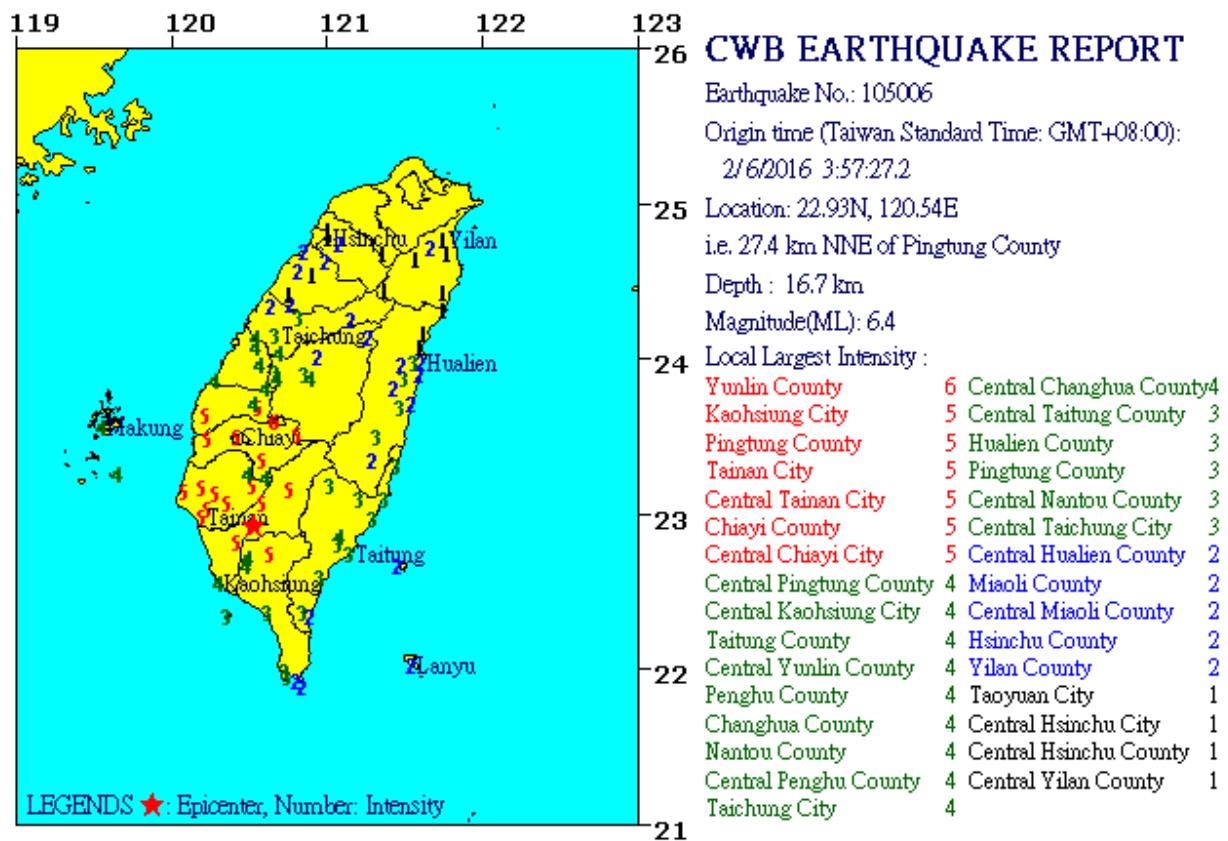


Report 3 on Kaohsiung Earthquake on February 6th, 2016, in Taiwan
Feb 10, 9:30 am
by National Science and Technology Center for Disaster Reduction

Summary

On February 6, 2016 at 3:57 am local time, a magnitude-6.4 in-land and shallow earthquake hit southern part Taiwan and caused casualties (37 died and 525 wounded) and losses (over a dozens of buildings totally or partially collapsed). The epicenter is located at Meinong, Kaohsiung City and with a focal depth of 16.6 Kilometers. According to the shake records, the strongest intensity reached scale 6 (334.1 gal).



Source: Central Weather Bureau

1. Emergency Operation

- Right after the strong quake, the Ministry of the Interior activated quick damage survey at an elevated level of emergency operation to level 1 at 4:15 am to collect situations, and coordinate search and rescue efforts.

Based on the disposal report released by **the Central Emergency Operation Center** on Feb 10, 9:00 pm, the latest situations are

2. Casualties:

- **43 died,**
- **546 injured (84 hospitalized, 29 severely wounded)**

Area	Death	Injury	Remarks
Tainan City	43	506	<p>1. The Weiguan Jinlong building, located at No.6, Guoguang 5th St., Yongkang Dist., Tainan City, was completed in 1995 and it is a mixed-use reinforced-concrete complex for residential apartments and commercial units. The building collapsed and buried hundreds of residents.</p> <ul style="list-style-type: none"> ● According to the latest report, 41 died (18 males and 23 females) and 101 were sent to hospitals. 95 residents escaped from the ruined building right after the quake and urban-search-and-rescue (USAR) teams have found 214. Now 101 people could still possibly be buried under the concrete debris. ● After 72 hours, rescue teams have removed top layer of concrete blocks and helped trapped residents out. Since no life signs detected, from 20:00 Feb. 8th, Tainan City Government initiated "Giant Jawbreaker Relief Action" whereby 17 jaw-breakers (heavy machinery) are being used to open a new rescue tunnel. ● The 16-story building, accommodating 256 registered residents in 96 households, totally collapsed towards to streets after 40-second strong round shaking in Tainan. In fact, the exact number of residents exceed 256. ● The PGA record in Tainan shows 82.49 gal at vertical direction, 152.17 gal at NS axis and 233.83 gal at EW axis. <p>2. One 56-year-old female worker of a textile factory was killed by a falling water tanker in Gueiren District, Tainan City.</p> <p>3. One 44-year-old male worker was killed by falling objects in Gueiren District, Tainan City.</p>
Changhua County	0	1	

Yunlin County	0	3	
Chiayi County	0	6	
Chiayi City	0	1	
Kaohsiung City	0	29	
Sum	41	546	

3. Damages to public services

Item	Num. of service suspension	Num. of Restoration	Under repair	unrepairable
Tap water (household)	400,300	350,300	50,000	0
Electricity (household)	173,084	172,664	0	420
Natural gas (household)	1,241	1,034	0	207
Land-line phone (household)	1,248	1248	0	0
Cell-site for mobile phone (site)	131	131	0	0

4. Damages to transportation

- 3 interruptions to major highways or freeways, 1 is still under repairing.
- Railway restored operation after check on Feb 6th.
- High-speed rail system suspended south-bound service from Taichung due to pulled-down power lines and resumed operation by section on Feb 6. On Feb 8, full line resumes normal operation.

5. Evacuation and sheltering

- Ever evacuated people: 438
- Total number of people in shelters: 89 (ever stayed in shelters 232)

6. Damaged buildings

Area	Report of possible damaged sites	Evaluated site	Site under evaluation	Red Tag	Yellow Tag
Tainan City	183	148	35	38	22
Kaohsiung City	14	14	0	2	1
Sum	197	162	35	40	23

Red Tag: dangerous structures

Yellow Tag: Repairable damage



Locations of buildings tagged “Red” or “Yellow”

Data source: The Construction and Planning Agency

Photo source: Ministry of National Defense, National Science and
Technology Center for Disaster Reduction