Earthquake Shaking Green Alert

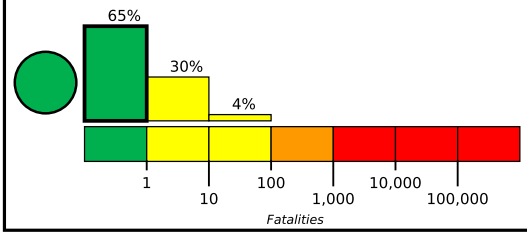
M 5.2, 79 km SSW of Hualien City, Taiwan

Origin Time: 2022-03-09 12:22:14 UTC (Wed 20:22:14 local)
Location: 23.2820° N 121.4126° E Depth: 32.5 km

PAGER Version 1

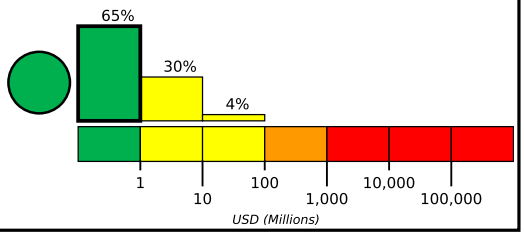
Created: 6 hours, 18 minutes after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses



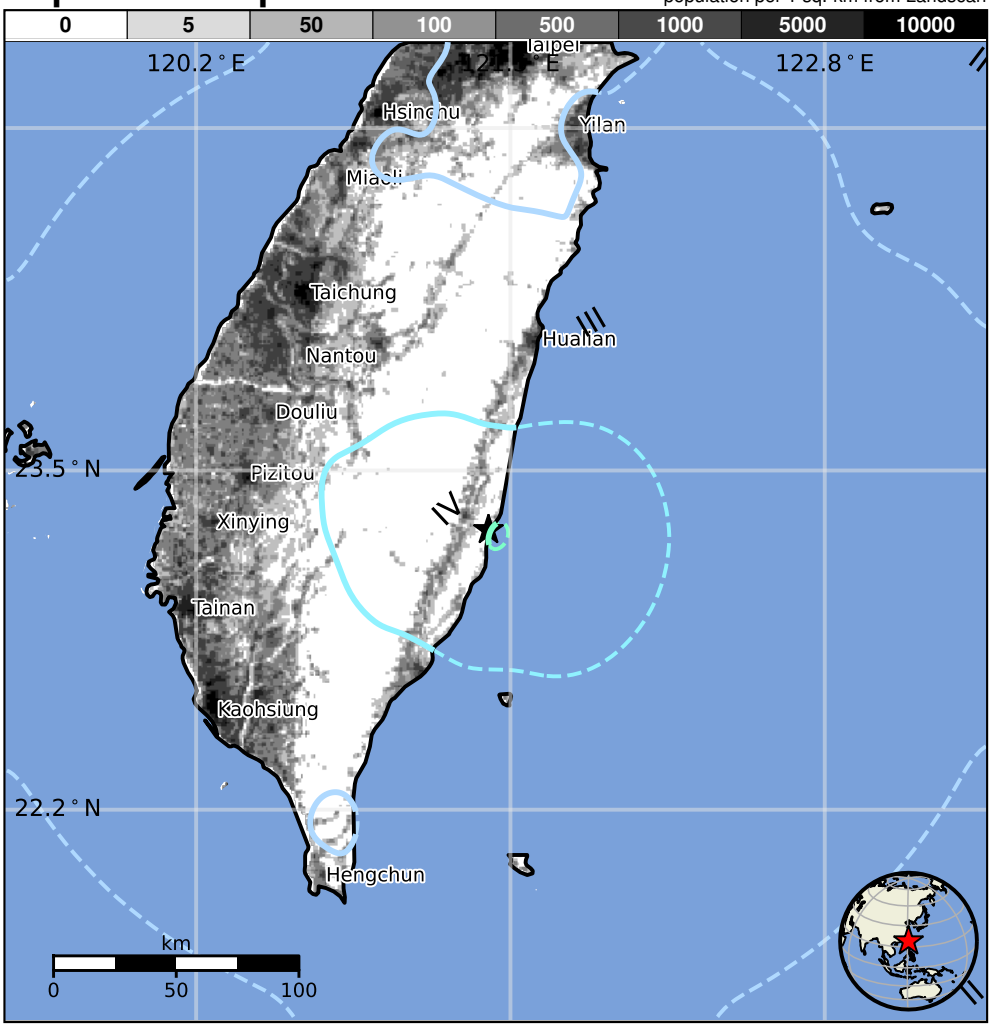
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	20,860k	174k	9k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are unknown/miscellaneous types and heavy wood frame construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1994-09-16	287	6.7	V(2,387k)	5
2000-05-17	104	5.4	VI(3k)	3
1999-09-20	73	7.6	IX(1,778k)	2k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Jiayi Shi	<1k
III	Pingtung	<1k
III	**Pizitou**	**5k**
III	Taitung	<1k
III	Taitung City	110k
III	**Tainan**	**771k**
III	**Kaohsiung**	**1,520k**
III	Zhongxing New Village	26k
III	**Taichung**	**1,041k**
III	**Taipei**	**7,872k**
II	Banqiao	543k

bold cities appear on map. (k=x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/us6000h39z#pager

Event ID: us6000h39z