

M 7.4, 15 km S of Hualien City, Taiwan

Origin Time: 2024-04-02 23:58:12 UTC (Wed 07:58:12 local)

Location: 23.8356° N 121.5976° E Depth: 40.0 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 27 weeks, 0 days after earthquake

PAGER Version 12

Estimated Fatalities

Fatalities

Yellow alert for shaking-related fatalities and economic losses. Some casualties and damage are possible and the impact should be relatively localized. Past yellow alerts have required a local or regional level response.

Estimated Economic Losses

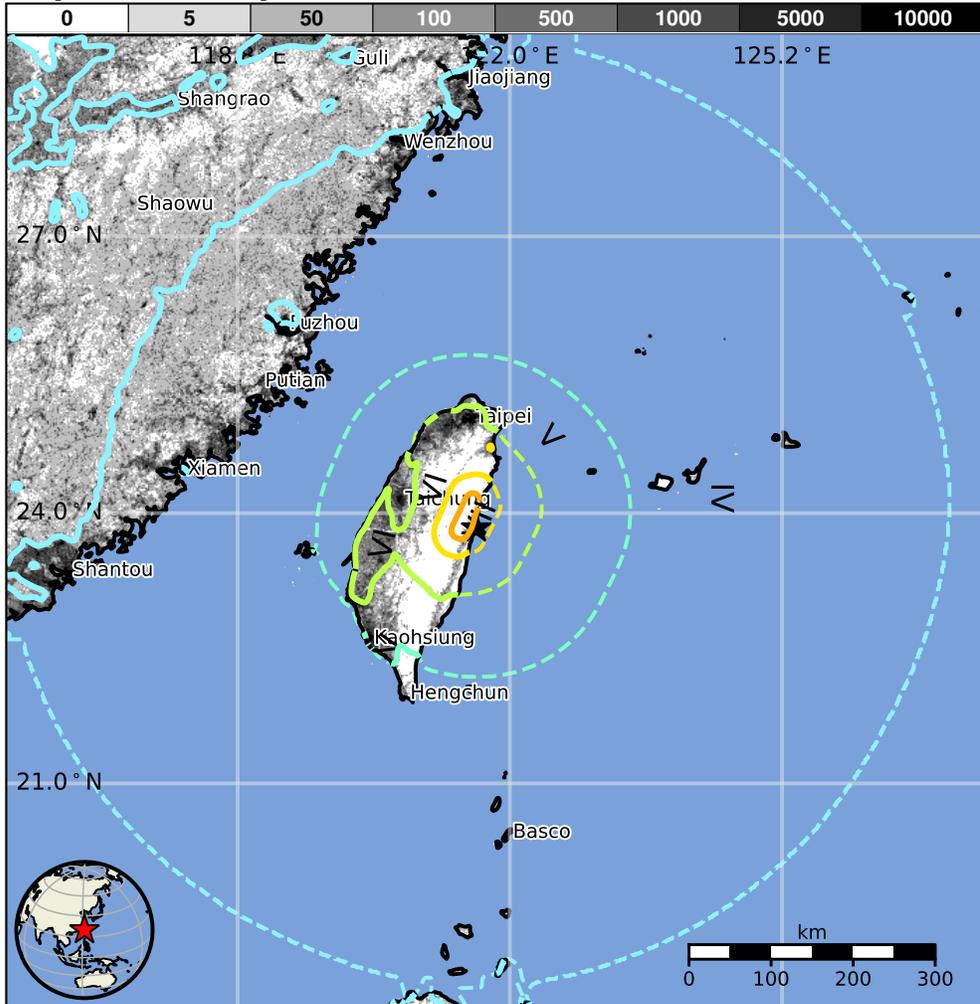
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	19,484k*	73,956k	8,996k	14,630k	381k	176k	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



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
1986-11-14	20	7.3	VIII(160k)	15
2002-03-31	75	7.1	VIII(16k)	5
1999-09-20	65	7.6	IX(1,778k)	2k

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

Selected City Exposure

from GeoNames.org

MMI	City	Population
VIII	Hualien City	350k
VII	Yilan	94k
VI	Zhubei	<1k
VI	Banqiao	543k
VI	Puli	86k
VI	Douliu	105k
VI	Taipei	7,872k
V	Zhongxing New Village	26k
V	Kaohsiung	1,520k
IV	Jincheng	38k
IV	Fuzhou	1,180k

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/us7000m9g4#pager>

Event ID: us7000m9g4