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Earthquake Shaking Yellow Alert

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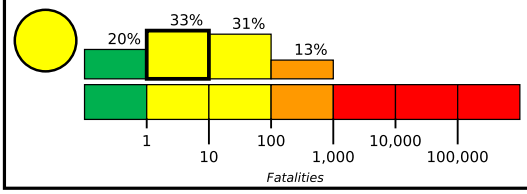
M 5.7, 54 km NE of Bandar-e Lengeh, Iran

Origin Time: 2022-07-01 23:24:14 UTC (Sat 03:54:14 local)
Location: 26.9249° N 55.2468° E Depth: 10.0 km

PAGER Version 5

Created: 2 hours, 3 minutes after earthquake

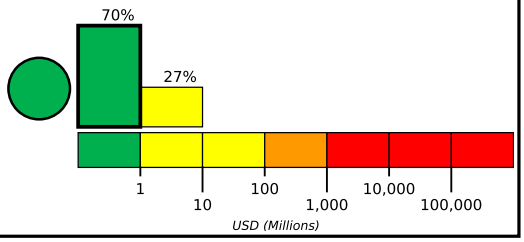
Estimated Fatalities



Yellow alert for shaking-related fatalities. Some casualties are possible and the impact should be relatively localized. Past events with this alert level have required a local or regional level response.

Green alert for economic losses. There is a low likelihood of damage.

Estimated Economic Losses



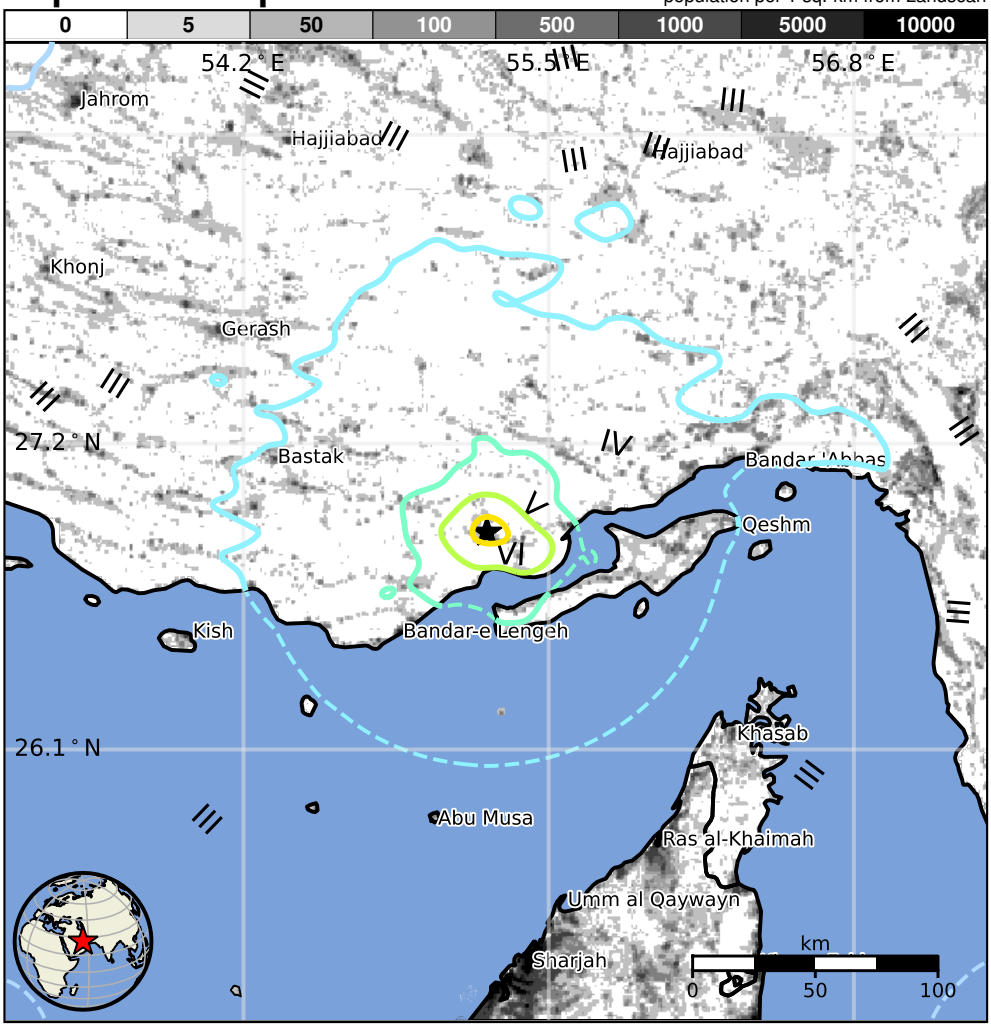
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	7,555k*	1,332k	48k	7k	4k	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 vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building type is low-rise nonductile concrete frame with infill construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1977-03-21	132	6.7	VII(7k)	167
1990-11-06	146	6.6	IX(5k)	22
2003-12-26	371	6.6	VII(72k)	26k

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
V	Bandar-e Khamir	<1k
IV	**Bandar-e Lengeh**	**23k**
IV	**Bastak**	**<1k**
IV	Bandar Abbas	352k
IV	**Qeshm**	**25k**
IV	**Abu Musa**	**<1k**
IV	**Umm al Qaywayn**	**44k**
III	**Ras al-Khaimah**	**116k**
III	**Sharjah**	**544k**
III	Ajman	226k
III	**Khasab**	**18k**

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/us6000hz9p#pager

Event ID: us6000hz9p