

M 5.4, IRAN-IRAQ BORDER REGION

Origin Time: Mon 2014-08-18 11:51:35 UTC (15:21:35 local)

Location: 32.78°N 47.68°E Depth: 10 km

Created: 6 weeks, 4 days 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



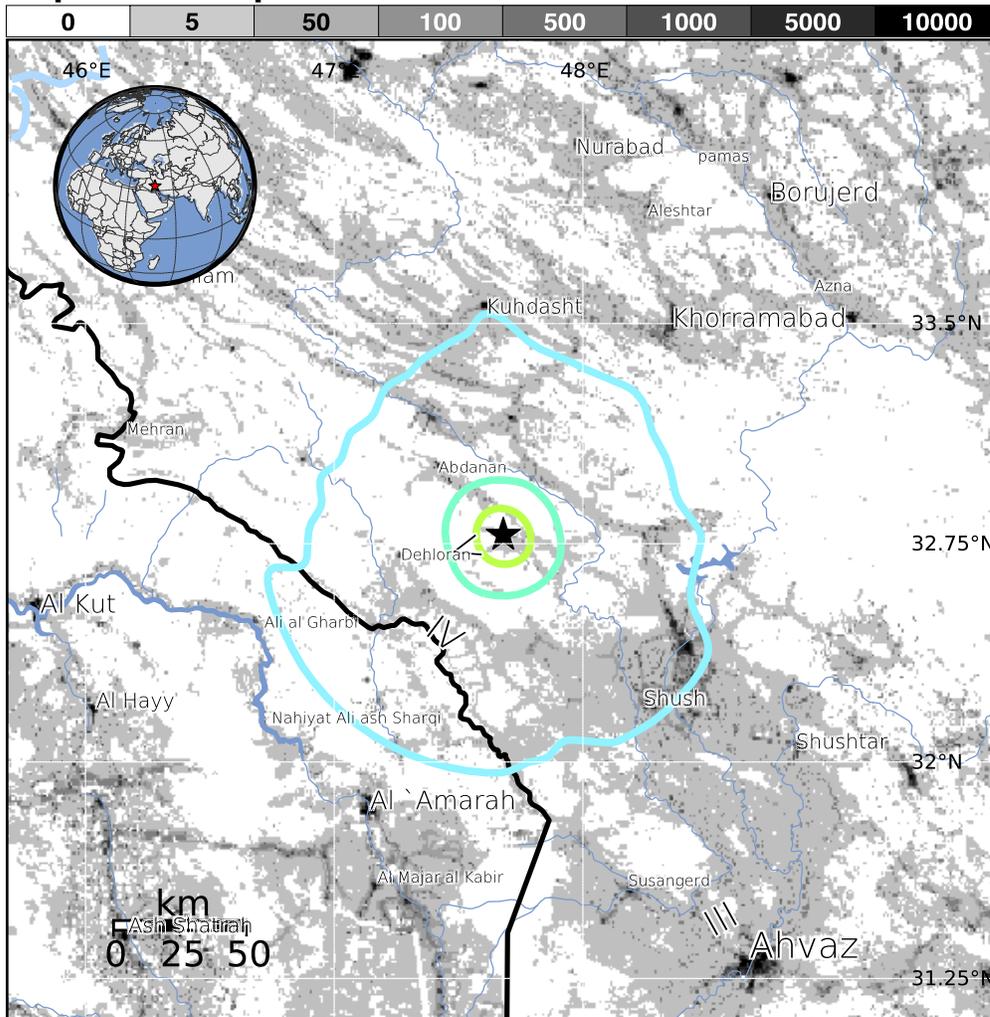
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		--*	8,933k	1,131k	6k	4k	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	Moderate/Heavy	Heavy	V. Heavy
	Vulnerable Structures	none	none	none	Light	Moderate	Moderate/Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per ~1 sq. km from Landsat



Structures:

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist.

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2007-06-18	360	5.5	VII(1k)	0
2002-04-24	211	5.4	VII(28k)	2
1977-04-06	303	6.0	VIII(31k)	366

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
IV	Abdanan	19k
IV	Dehloran	46k
IV	Shush	52k
IV	Kuhdasht	100k
III	Al `Amarah	323k
III	Khorramabad	330k
III	Ilam	141k
III	Ahvaz	841k
III	Al Kut	315k
III	Kermanshah	621k

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.

<http://earthquake.usgs.gov/pager>

Event ID: usb000s3qn