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Earthquake Shaking Yellow Alert

USAID FROM THE AMERICAN PEOPLE

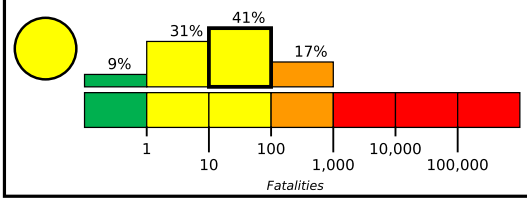
M 5.3, 2km WSW of Kasina, Croatia

Origin Time: 2020-03-22 05:24:03 UTC (Sun 06:24:03 local)
Location: 45.9071° N 15.9697° E Depth: 10.0 km

PAGER Version 8

Created: 1 week, 4 days after earthquake

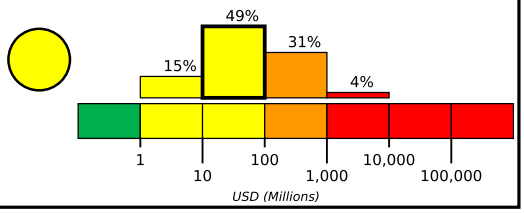
Estimated Fatalities



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 are less than 1% of GDP of Croatia.

Estimated Economic Losses



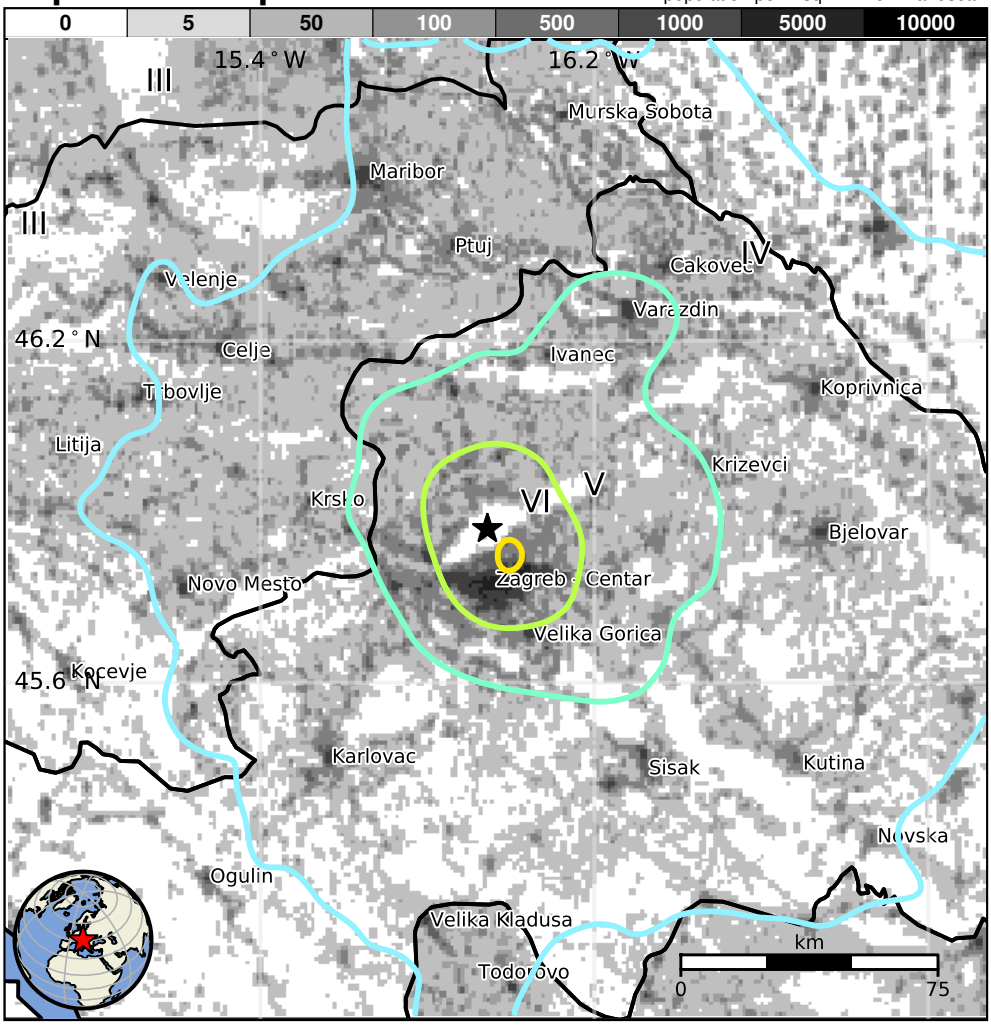
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	591k*	1,724k	489k	604k	285k	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 rubble/field stone with mud and unreinforced brick with mud and timber post construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1998-04-12	183	5.6	V(9k)	0
1976-09-15	217	6.0	VIII(65k)	11
1976-05-06	214	6.5	IX(55k)	965

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
VII	Zagreb- Dubrava	1k
VII	Zagreb	699k
VII	**Zagreb - Centar**	**37k**
VII	Donja Stubica	<1k
VI	Zagreb- Novi Zagreb	5k
VI	Stubicke Toplice	2k
V	**Varazdin**	**42k**
IV	**Sisak**	**36k**
IV	**Maribor**	**95k**
IV	**Celje**	**38k**
IV	**Karlovac**	**48k**

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.