

M 8.2, OFFSHORE TARAPACA, CHILE

Origin Time: Tue 2014-04-01 23:46:46 UTC (18:46:46 local)

Location: 19.64°S 70.82°W Depth: 20 km

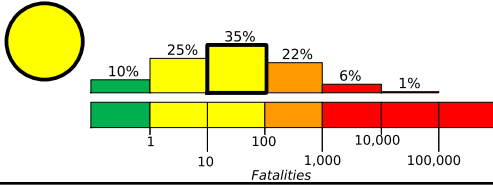
FOR TSUNAMI INFORMATION, SEE: tsunami.noaa.gov

Created: 4 hours, 12 minutes after earthquake

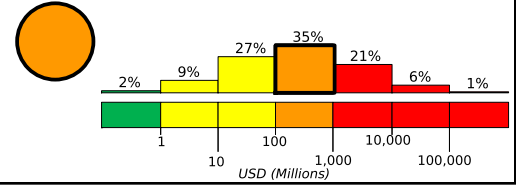
Estimated Fatalities

Orange alert level for economic losses. Significant damage is likely and the disaster is potentially widespread. Estimated economic losses are less than 1% of GDP of Chile. Past events with this alert level have required a regional or national level response.

Yellow alert level for shaking-related fatalities. Some casualties are possible.



Estimated Economic Losses

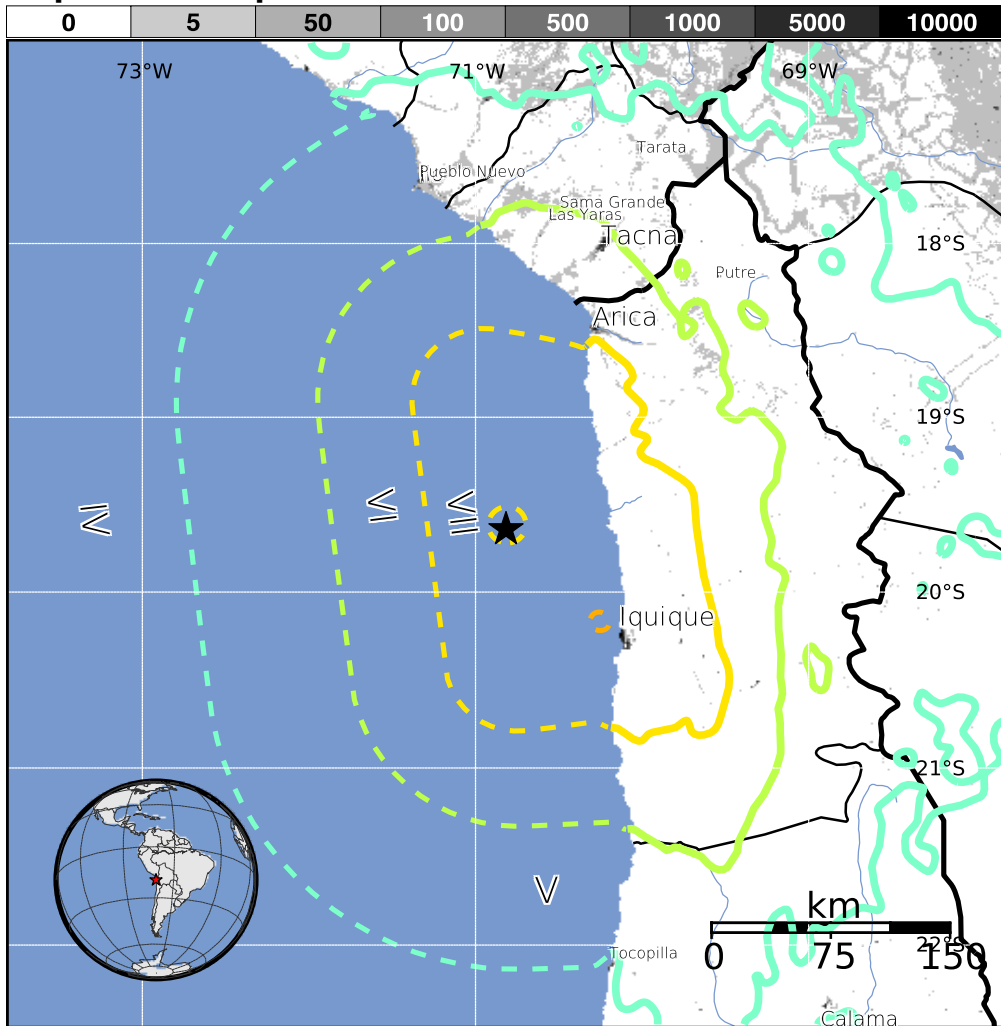


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)	--*	--*	302k*	295k*	347k	409k	47k	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



Structures:

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

Historical Earthquakes (with MMI levels):

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1995-10-12	386	5.5	VII(245)	0
1987-08-08	108	7.2	VIII(112)	5
1981-06-21	88	5.7	VII(6k)	10

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 Iquique	227k
VII Arica	186k
VI Las Yaras	< 1k
VI Pocollay	< 1k
VI Calana	< 1k
VI Sama Grande	< 1k
VI Tacna	280k
V Ilo	53k
V Calama	143k
V Moquegua	55k
IV Mollendo	29k

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: usc000nzvd