

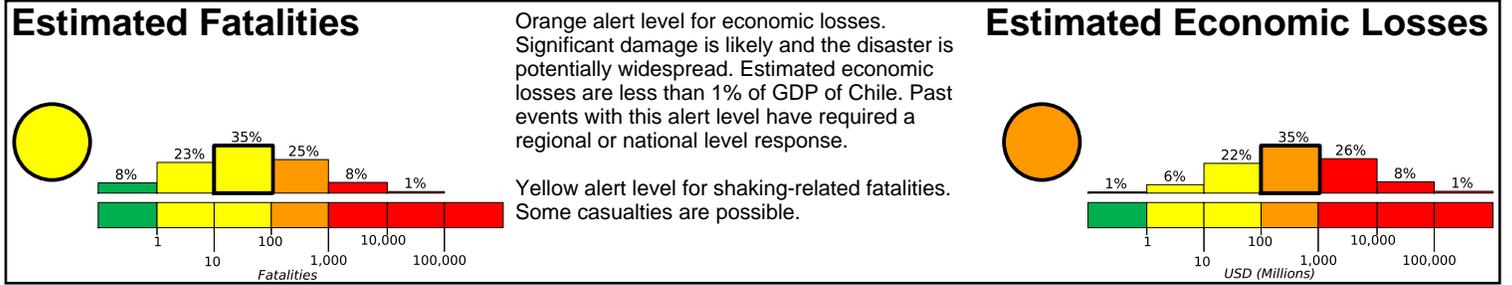
# M 8.2, OFFSHORE TARAPACA, CHILE

Origin Time: Tue 2014-04-01 23:46:47 UTC (18:46:47 local)

Location: 19.61°S 70.77°W Depth: 25 km

**FOR TSUNAMI INFORMATION, SEE: [tsunami.noaa.gov](http://tsunami.noaa.gov)**

Created: 7 weeks, 3 days after earthquake

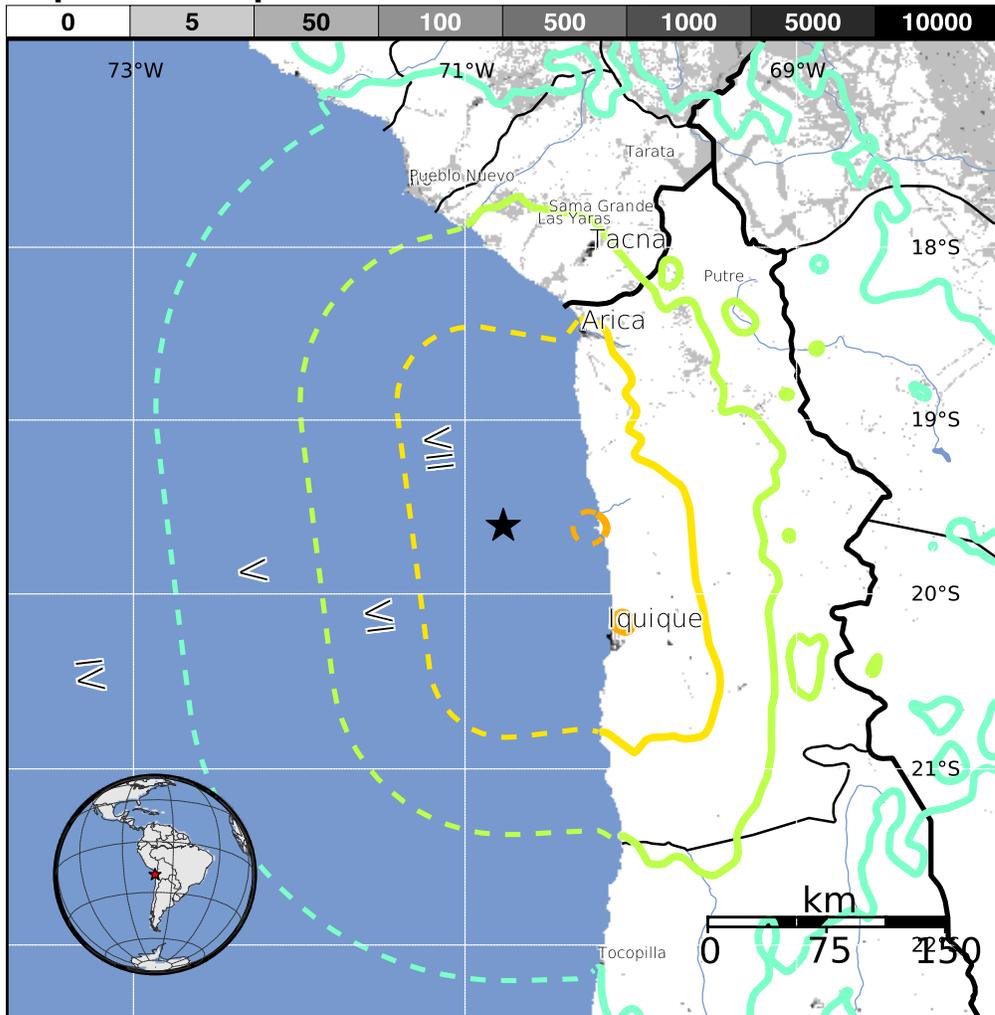


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k = x1000)		--*	--*	289k*	284k*	296k	424k	89k	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 Tacna	280k
VI Pocollay	< 1k
VI Sama Grande	< 1k
V Ilo	53k
V Moquegua	55k
V Tocopilla	24k
IV Mollendo	29k
IV Patacamaya	12k

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