Earthquake Shaking Green Alert

# M 5.6, 63 km SE of Embarcacin, Argentina

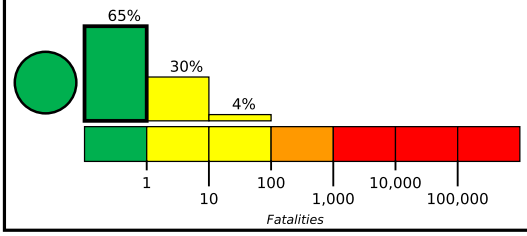
Origin Time: 2023-10-10 00:13:15 UTC (Mon 21:13:15 local)
Location: 23.6067° S 63.6564° W Depth: 538.1 km

**PAGER Version 3**

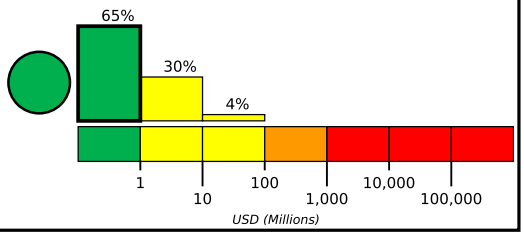
Created: 2 hours, 2 minutes after earthquake

## Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.




## Estimated Economic Losses



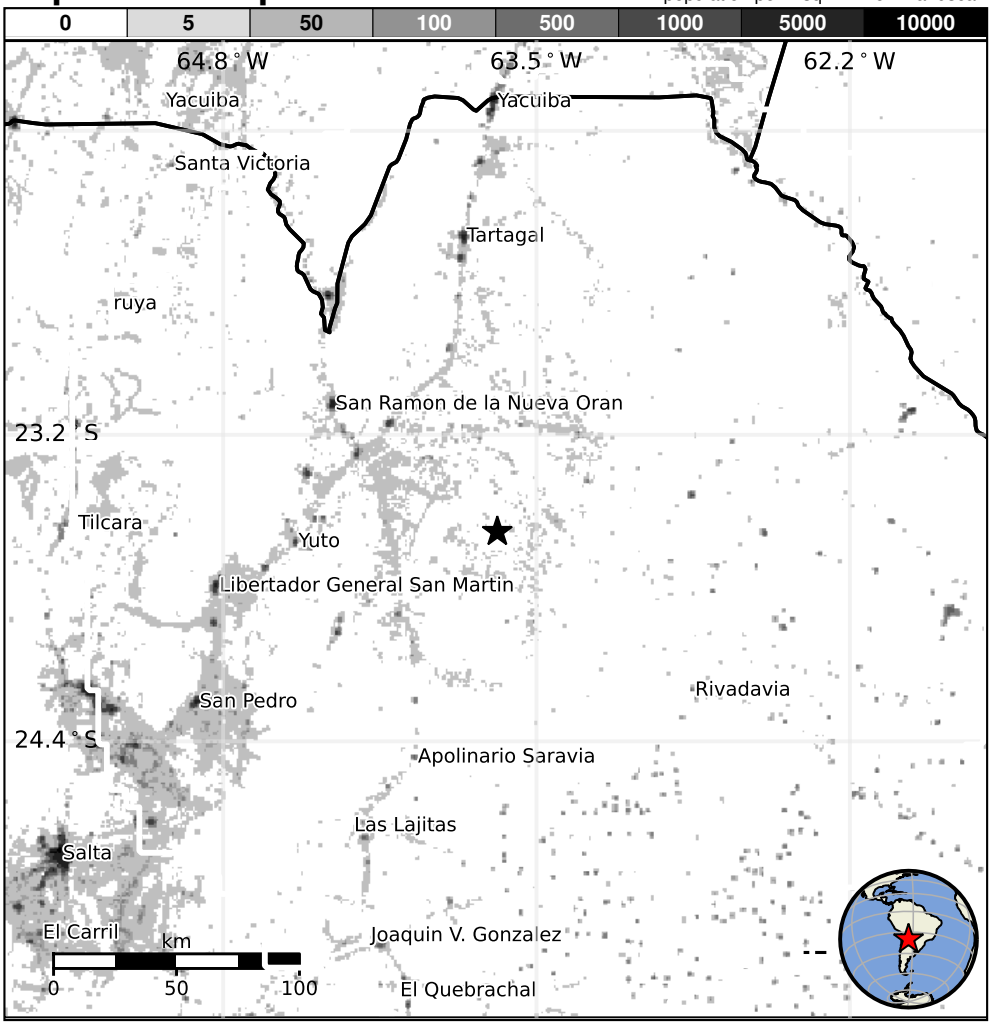

## Estimated Population Exposed to Earthquake Shaking

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ESTIMATED POPULATION EXPOSURE (k=x1000) | | 2,370k | 0 | 0 | 0 | 0 | 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 | 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 adobe block with concrete bond beam and unreinforced brick with concrete floor construction.

## Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|---|---|---|---|---|
| 1990-08-29 | 72 | 4.6 | III(25k) | – |
| 1973-11-19 | 141 | 5.9 | VII(9k) | – |
| 1974-07-01 | 193 | 6.5 | VIII(2k) | – |

## Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|---|---|---|
| I | **Rivadavia** | **<1k** |
| I | **San Ramon de la Nueva Oran** | **74k** |
| I | Embarcacion | 24k |
| I | **Yuto** | **8k** |
| I | General Enrique Mosconi | 1k |
| I | **Las Lajitas** | **9k** |
| I | **Tartagal** | **61k** |
| I | **Salta** | **513k** |
| I | San Salvador de Jujuy | 306k |
| I | **Yacuiba** | **83k** |
| I | **San Pedro** | **58k** |

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/us6000leee#pager**

**Event ID: us6000leee**