

SEISMIC HAZARD MAP NORTHWESTERN SOUTH AMERICA (DRAFT)

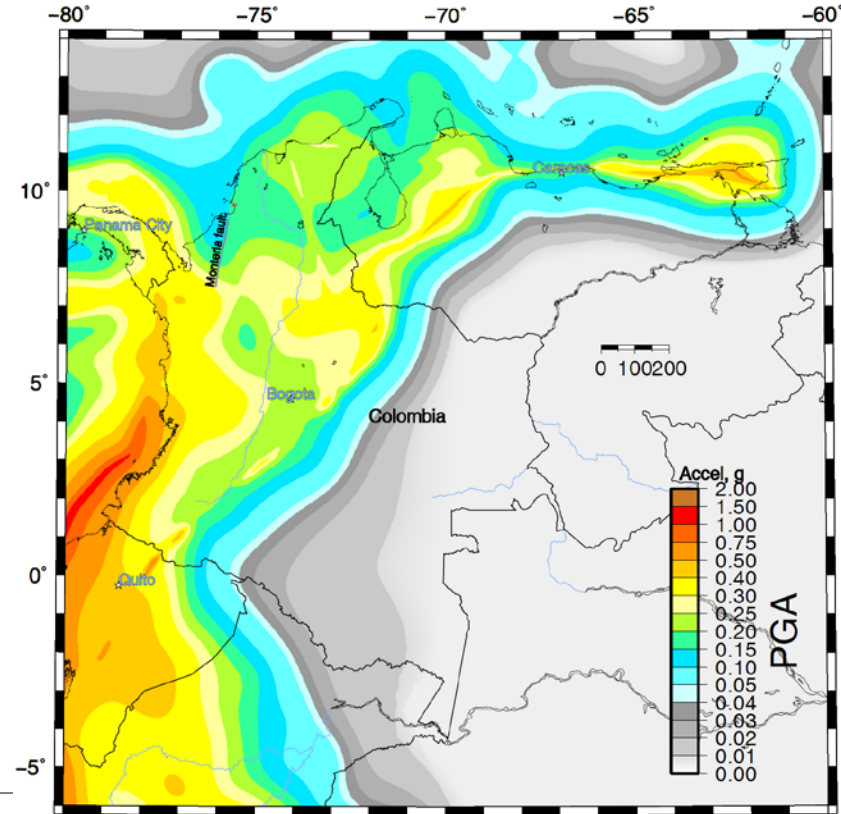
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Probabilistic Seismic Hazard Map

PGA

10% PROBABILITY OF EXCEEDANCE IN 50 YEARS

$V_{s30} = 760$ m/s

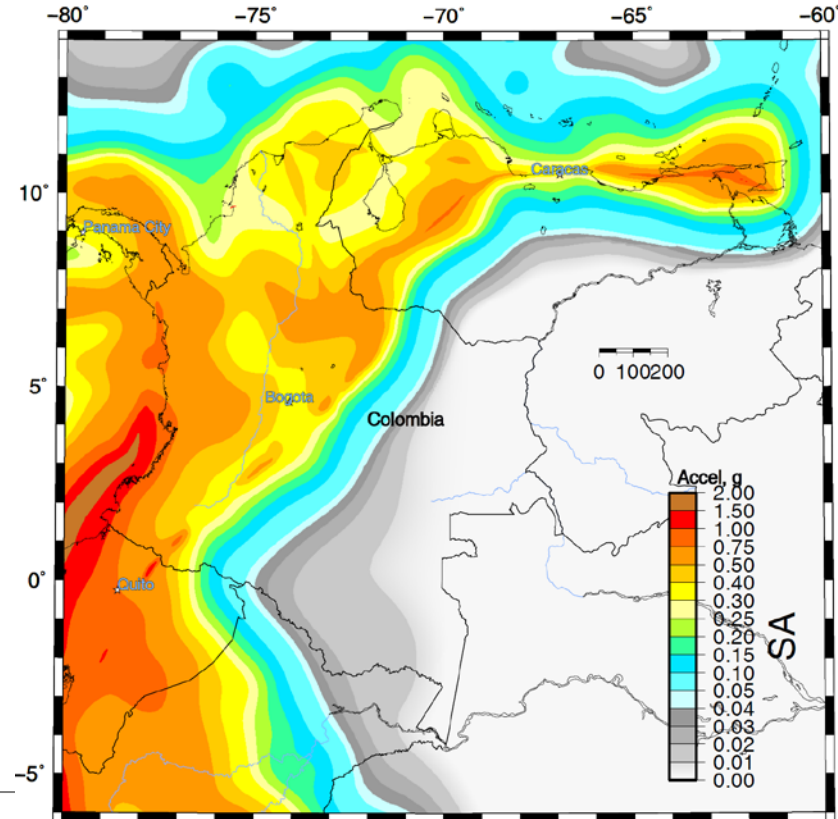


Probabilistic Seismic Hazard Map

PSA, $T = 0.3$ s

10% PROBABILITY OF EXCEEDANCE IN 50 YEARS

$V_{s30} = 760$ m/s

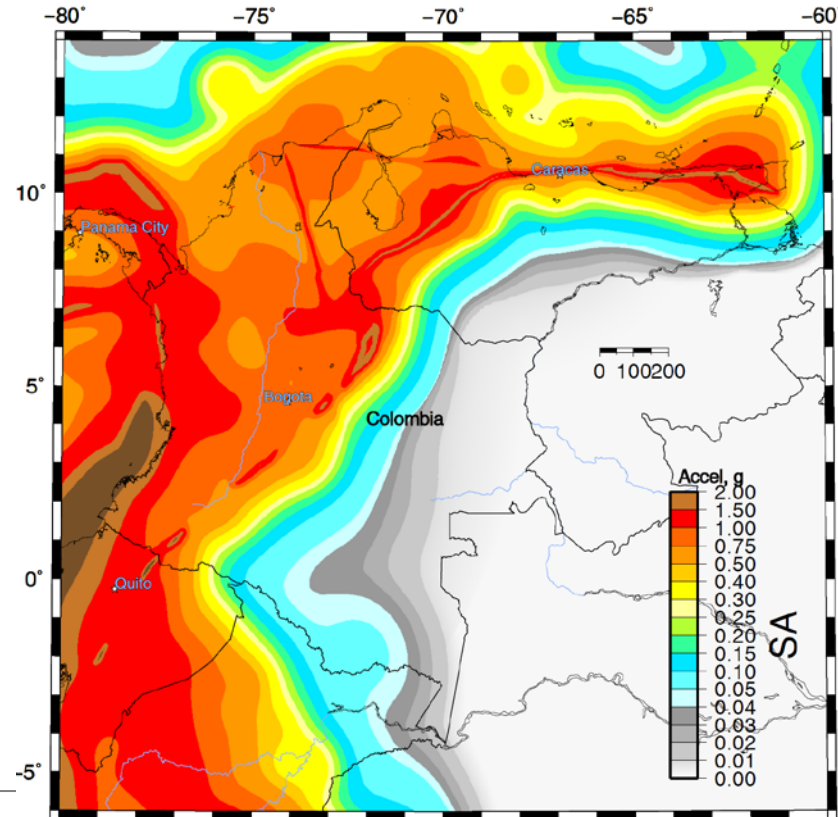


Probabilistic Seismic Hazard Map

PSA, $T = 0.3$ s

2% PROBABILITY OF EXCEEDANCE IN 50 YEARS

$V_{s30} = 760$ m/s



Data Sources

SEISMIC CATALOG COMPILED WITH DATA OBTAINED FROM:

Servicio Geológico Colombiano (SGC)

www2.sgc.gov.co/Publicaciones/Paginas/boletines-sismicidad.aspx

Fundación Venezolana de Investigaciones Sismológicas (FUNVISIS)

funvisis.gob.ve/monitor.html

COMPLEMENTED WITH DATA OBTAINED FROM:

United States Geological Survey (USGS), usgs.gov

International Seismological Centre (ISC), isc.ac.uk

Data Sources

FAULT GEOMETRY DATA OBTAINED FROM:

- R Bernal-Olaya, P Mann, and CA Vargas, 'Earthquake, tomographic, seismic reflection, and gravity evidence for a shallowly dipping subduction zone beneath the Caribbean Margin of Northwestern Colombia,' *Petroleum geology and potential of the Colombian Caribbean Margin: AAPG Memoir 108* (C Bartolini and P Mann, eds), 247–270 (2015).
- HM. Benz, AC Tarr, GP Hayes, A Villaseñor, KP Furlong, RL Dart, and S Rhea, Caribbean Plate and Vicinity – Seismicity of the Earth 1900–2010, USGS (2011).
- P Bird, 'An updated digital model of plate boundaries,' *G³ Geochemistry, Geophysics, Geosystems*, 4(3), 1027 (14 March 2003).