Supplement of

Contrasting seismic risk for Santiago, Chile, from near-field and distant earthquake sources

Ekbal Hussain et al.

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Figure S1. Map showing the communes of the Santiago Metropolitan Region and the distribution of the residential building exposure model used in the risk calculations. The exposure model is downsampled to a 1×1 km grid from Santa-María et al. (2017). The red lines indicate the surface trace of the San Ramón fault used in the seismic risk scenario calculations, and the dashed cyan the buried fault splay.
**Figure S2.** A histogram of the number of buildings in the exposure model for Santiago against the number of storeys. The buildings are colour coded with the residential building class, where RC is reinforced concrete, MCF is confined masonry, MR is reinforced masonry, MUR is unreinforced masonry and W is wooden. The majority of residential buildings are 3 storeys or less, with mostly reinforced concrete structures comprising the 4+ storey buildings.
Figure S3. The mapped San Ramón Fault (SRF) shown in blue and the 4-segment model SRF used in the seismic risk calculations overlain on the Pleiades hillsided DEM.
Figure S4. The estimated median Peak Ground Acceleration (PGA) as a fraction of $g$. For the the San Ramón (red line) and Santiago splay fault (green line) cases, these represent estimates using the Akkar et al. (2014) ground motion prediction equation, while those for the intraslab fault are estimates from the Abrahamson et al. (2016) equation. Note that the scale is the same for the San Ramón and Santiago splay scenarios but different for the intraslab scenarios. The USGS peak ground accelerations for the Mw 8.8 Maule earthquake is shown at the bottom.
Figure S5. A few examples of the range of fragility and vulnerability functions used within the scenario analysis. a-d are examples of building fragility functions from Villar-Vega et al. (2017a) with each colour coded line representing the probability of exceedance of a specific damage state for a given shaking intensity. The shaking intensity is represented by the Peak Ground Acceleration (PGA) in a, and by the spectral acceleration (Sa) in b-d at the elastic period (Telastic) indicated in the axis label. Figures e and f show two examples of replacement cost vulnerability curves showing the loss ratio (loss over exposed), for a given ground shaking intensity. The first, e is a continuous curve from Martins and Silva (2018) with the shaking intensity in spectral acceleration for a 2 storey unreinforced adobe building, while f shows a continuous vulnerability curve also from Martins and Silva (2018) against the PGA scale for a single storey reinforced concrete building.
Figure S6. The distribution of collapsed building fraction in each comuna for the earthquakes considered in each scenario for the San Ramón Fault (green lines), the Santiago splay fault (dashed cyan line) and a deep intraslab fault. Note that the range of the colour scale changes between the upper four and lower pair of panels.
**Figure S7.** The fatality fraction, in fatalities per thousand exposed, in each comuna for the earthquakes considered in each scenario for the San Ramón Fault (green lines), the Santiago splay fault (dashed cyan line) and a deep intraslab fault. Note that the range of the colour scale changes between the upper four and lower pair of panels.
Figure S8. The residential building replacement cost, in USD millions, in each comuna for the earthquakes considered in each scenario for the San Ramón Fault (red lines), the Santiago splay fault (dashed blue line) and a deep intraslab fault. The replacement costs also include an estimate of the non-structural costs and contents of each building. Note that the range of the colour scale changes between upper four and lower pair of panels.
Table S1. Summary of fault properties used as sources in each of the earthquake scenarios.

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<tr>
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<th>Santiago Splay</th>
<th>Intra-slab</th>
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<td>45</td>
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<td>Bottom depth (km)</td>
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<td>Average strike (deg)</td>
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Table S2: Exposed populations broken down by building classification for each commune in the Santiago Metropolitan Region.

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<th>Commune</th>
<th>Population</th>
<th>Area (km²)</th>
<th>Population density (per sq km)</th>
<th>Population below poverty line (%)</th>
<th>Buildings in exposure model (% of Total)</th>
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<th>Employment</th>
<th>Unemployment</th>
<th>Median Income</th>
<th>Poverty Line</th>
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**Total/Mean**  
- Population: 15,474  
- Inhabitants: 6,634,005  
- Crime Rate: 4,857  
- Employment: 9  
- Unemployment: 10  
- Median Income: 33  
- Poverty Line: 24  
- Income <= Poverty Line: 17  
- Percent Unemployed: 17  
- Total: 1,402,219

*defined as $400 monthly income (in 2015 US dollars) for a family of 4 (Ministerio de Desarrollo Social, 2016)*
### Table S3. Summary of damage and loss results for every commune. SR - San Ramón fault, SS - Santiago splay, IS - intraslab, Col - building collapse count, Fat - number of fatalities, Cost - building replacement cost (millions USD). The collapse counts are rounded to the nearest 100, the fatalities to the nearest 10 and the replacements costs to the nearest USD 10 million. Note that the replacement costs also include an estimate of the non-structural costs and contents of each building.

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<th>SR7.5 Col</th>
<th>SS6 Col</th>
<th>SS6.5 Col</th>
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