

Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich

Extremes in PSHA: M_{max} & Large Multiplets

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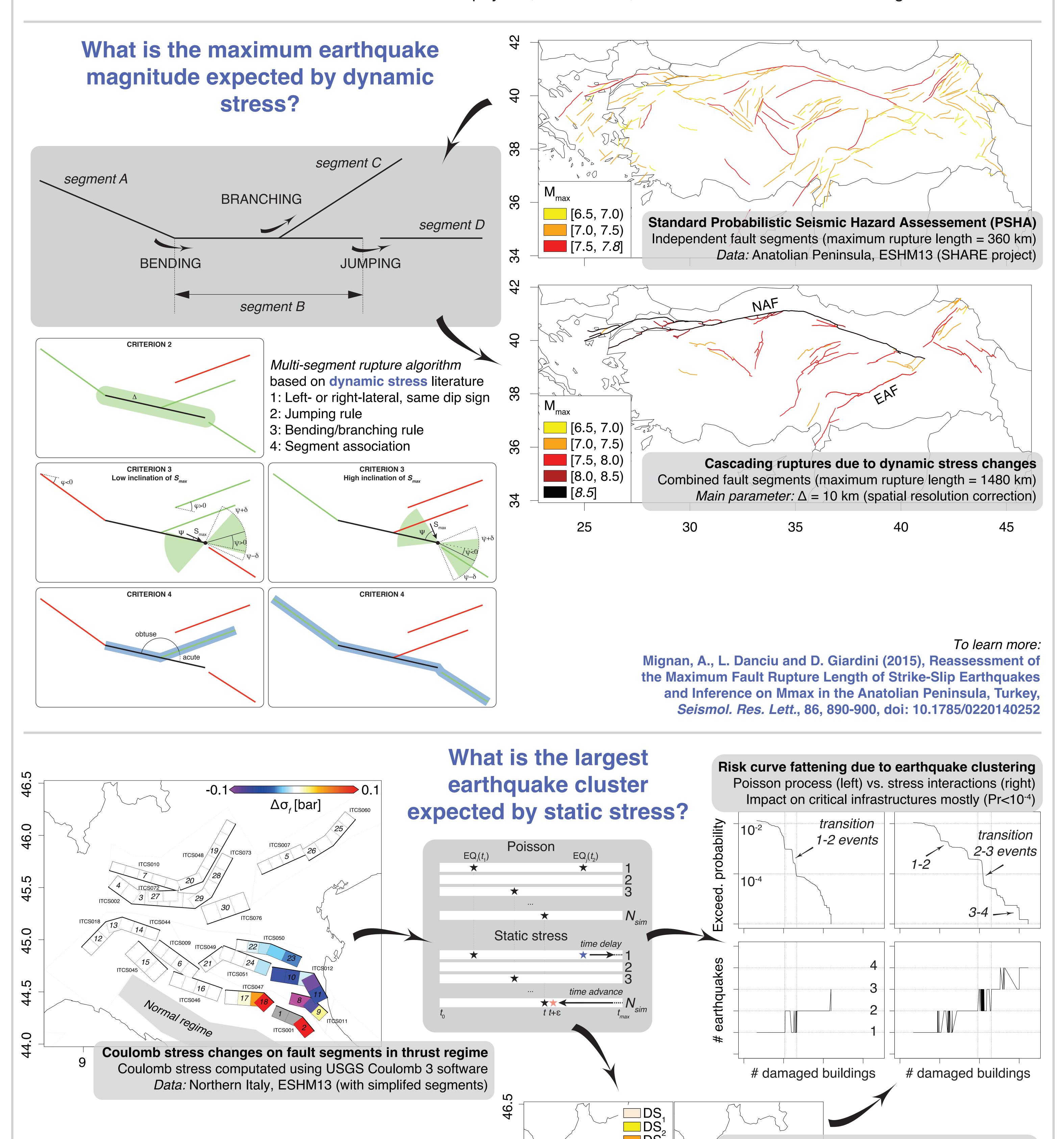
Amplified damage due to earthquake clustering

10

Static (left) vs. dynamic vulnerability (right)

Model based on ductility capacity reduction

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45.5

45.0

EQ,

9

10

To learn more:

Mignan, A., S. Wiemer and D. Giardini (2014), The quantification of low-probability-high-consequences events: part I. A generic multi-risk approach, *Nat. Hazards*, 73, 1999-2022, doi: 10.1007/s11069-014-1178-4

Mignan, A., L. Danciu and D. Giardini (2016), Considering large earthquake clustering in seismic risk analysis, *Nat. Hazards*, doi: 10.1007/s11069-016-2549-9