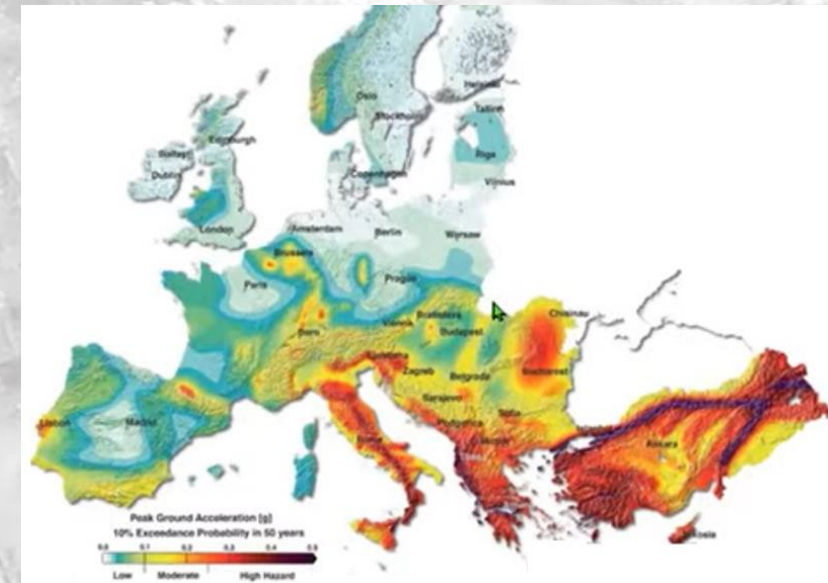
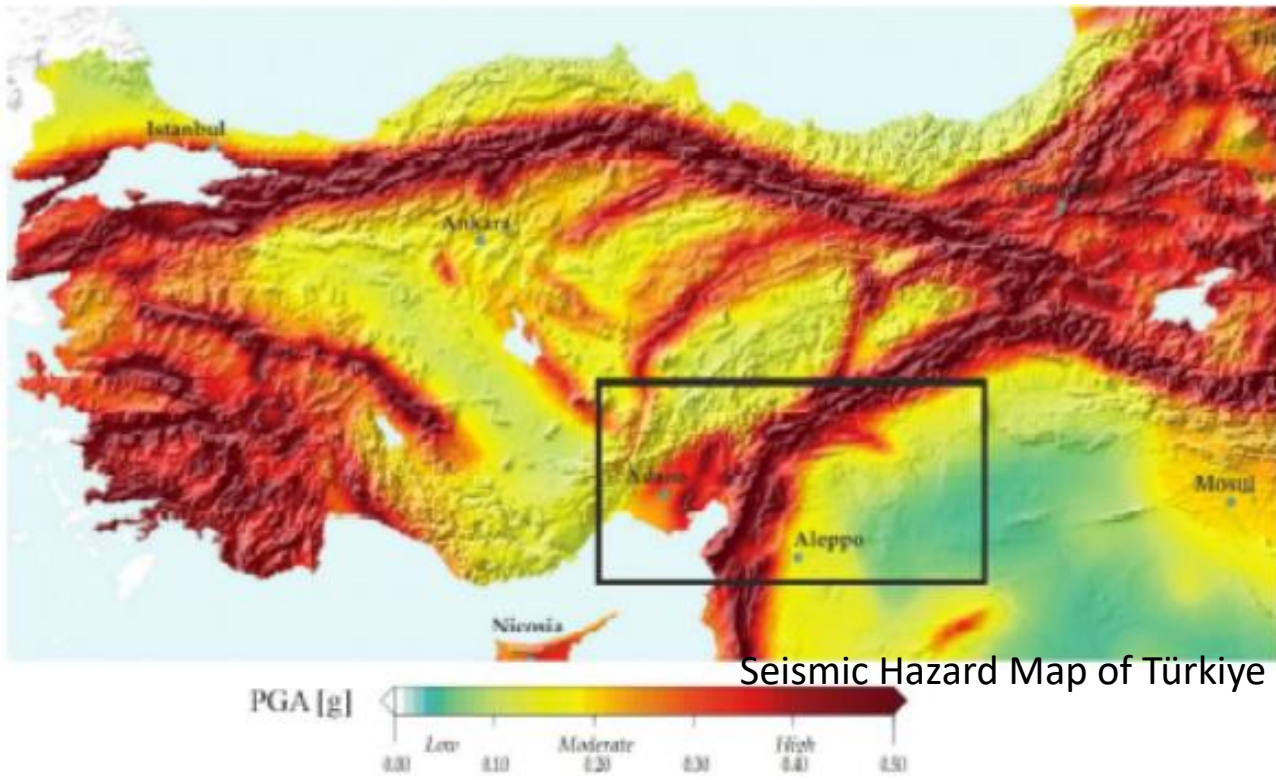


Earthquake in South-East Türkiye

Feb. 6, 2023

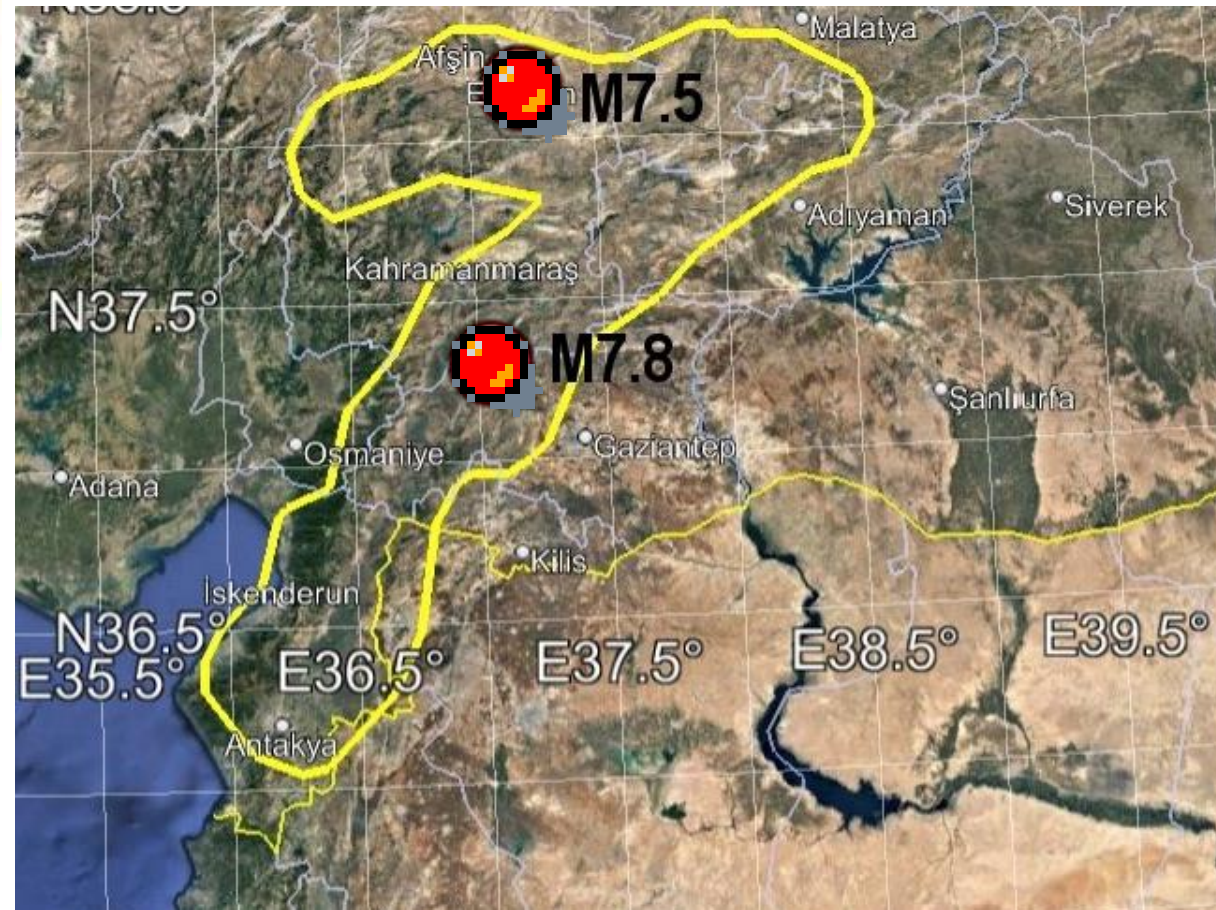


Feb. 6, 2023 Earthquake in South-East Türkiye



At 4:17 a.m., a magnitude-7.8 earthquake struck near Kahramanmaraş Pazarcık Town. 8.6km

This earthquake was followed by a second earthquake of magnitude 7.5 about 9 hours later at 1:24 p.m. with the epicenter in Elbistan Town 9.7km



The earthquake hit the provinces of Kahramanmaraş, Adıyaman, Hatay, Osmaniye, Gaziantep, Kilis, Şanlıurfa, Diyarbakır, Malatya, Adana, and Elazığ

*Construction Types in the Area
(According to the official report dated 18 March 2023)*

*There were **5,649,317** buildings in 11 cities effected by the earthquake*



RC Buildings 82 %

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Stone Masonry Buildings 3.5 %

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***Steel Buildings 2.4 %**
(None of steel buildings collapsed)*

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RC Buildings 82 %

Precast Buildings 3.6 %

Stone Masonry Buildings 3.5 %

Steel Buildings 2.4 %
(None of steel buildings collapsed)

Others 8.5 %

Timber Buildings

Rock carved Structures

Barns, Shades etc.

Losses during the Earthquake in the South-East Türkiye

In accordance with the official reports:

- More than 50 thousands people died.
- 518,009 buildings were collapsed or heavy damaged (9.2 %)
- 131,577 buildings were of medium level damage (2.3 %)
- 1,279,727 buildings were slightly damaged (22.7 %)

- None of steel structure collapsed
- 3 steel residences were heavily damaged
- Industrial steel buildings performed very well performance

Three steel residences heavily damaged



Three Steel Residences built after 2000



After the earthquake on 6 February



After the earthquake on 20 February

Developments after the Earthquake in Türkiye

- Ministry of Environment, Urbanization and Climate Change requested TUCSA, first time, to inspect and classify the damages for steel structures in earthquake region, on the 29th of March 2023.
- TUCSA established teams for inspection and classification of earthquake damages for steel structures.
- The difficulty was the existing rules to inspect and classify the damages had been designed for reinforced concrete, precast concrete and masonry buildings but not for steel structures.
- We reported to the ministry, and TUCSA was requested to draft a regulation for inspection and classification of damages of steel structures.
- In order to increase the use of steel structures in Türkiye, TUCSA is trying to convince the governmental bodies to make some official regulation such as to make mandatory to construct industrial buildings in steel, all buildings within the certain distance from fault lines must be steel etc.
- TUCSA organised an online summer school for steel construction which will start on the 18 September, about 1.000 students, architects and engineers were registered already.

Proposal for Earthquake Conferences Chain

- TUCSA reiterates the proposal for organising Earthquake Conference series for Europe which can be achieved by high seismic risk countries of Europe such as Portugal, Italy, Greece, Türkiye, Romania.
- These countries may organise these conferences every second year in rotation base under the coordination of TC13 Seismic Design Committee should it be accepted by TMB.

