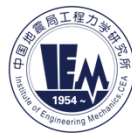


The effects of the 2025 Myanmar earthquake on buildings in China: A brief summary

チュ ジェ
曲 哲
QU Zhe

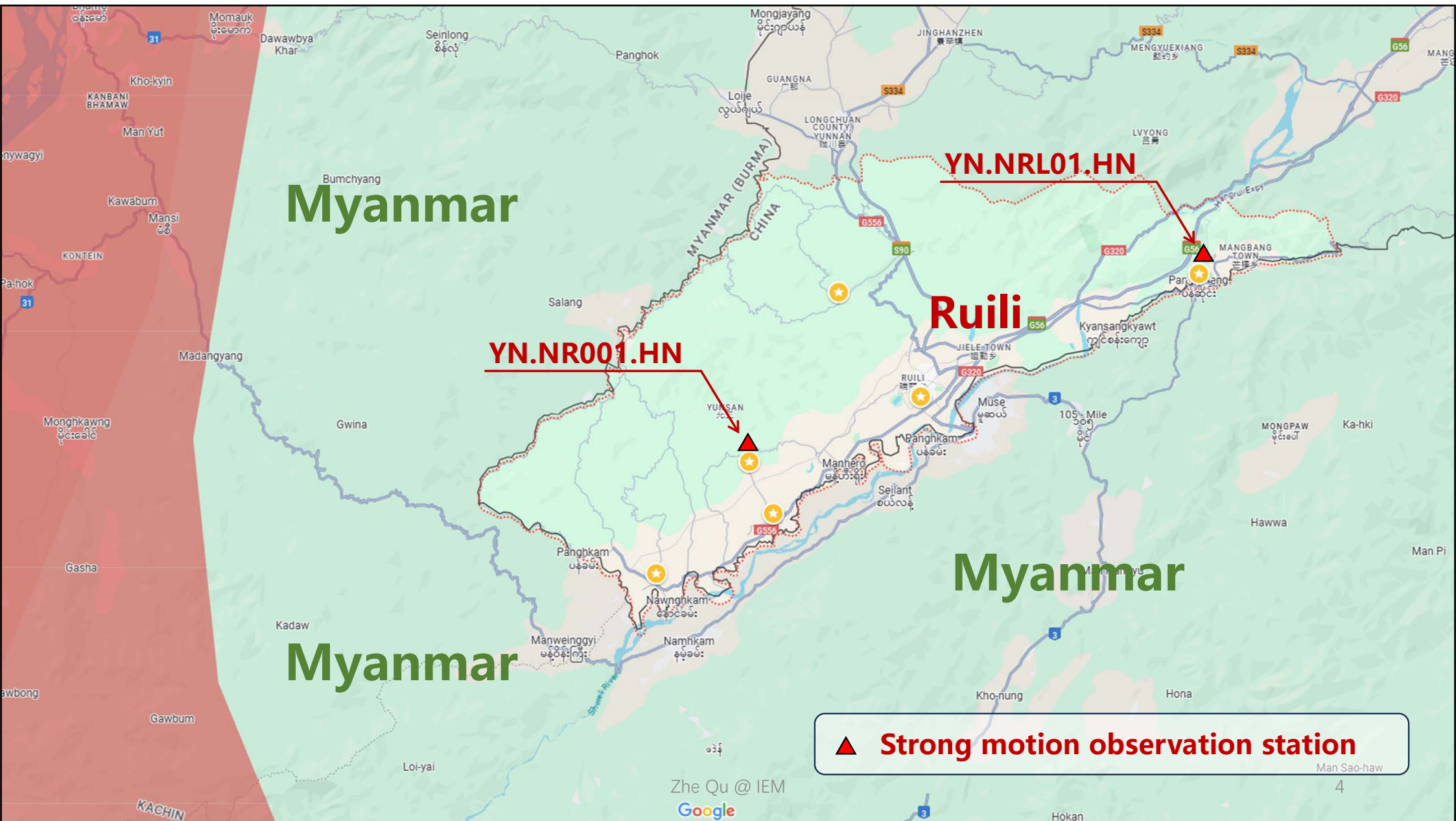
<http://www.qu-zhe.net>
quz@iem.ac.cn



中国地震局工程力学研究所
Institute of Engineering Mechanics, CEA

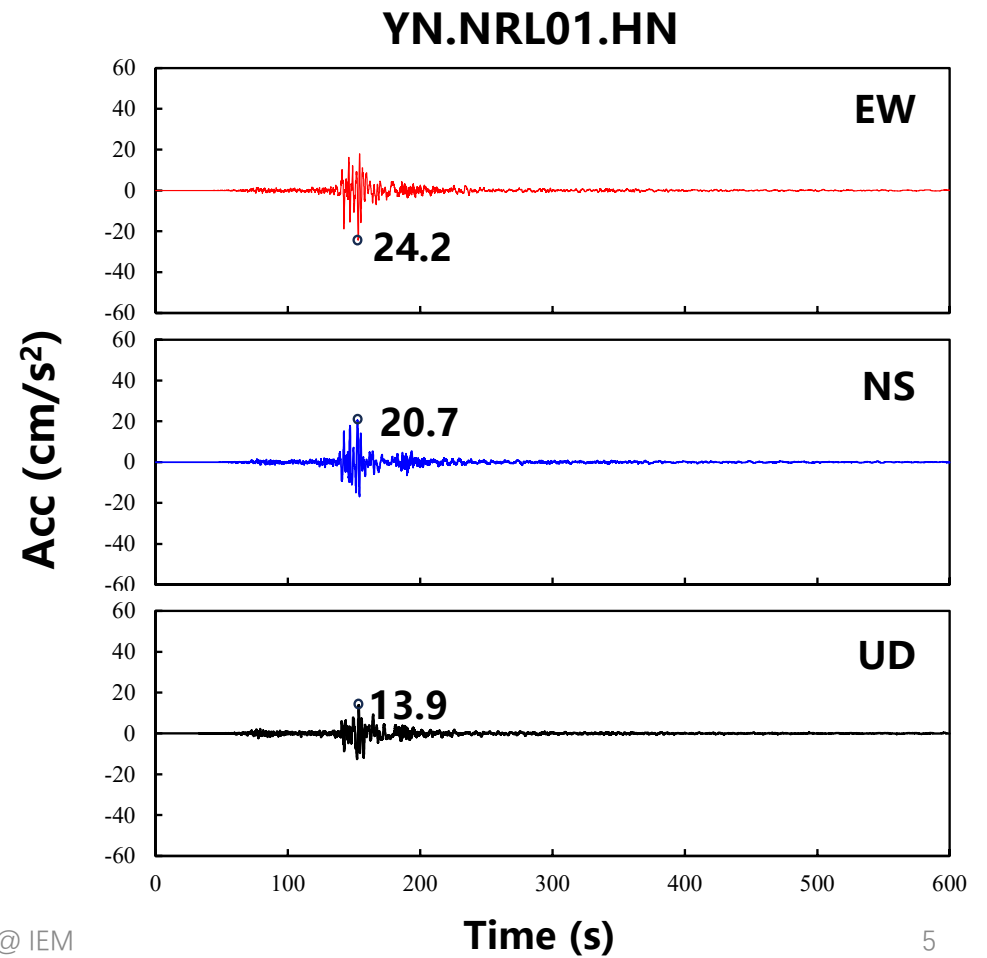
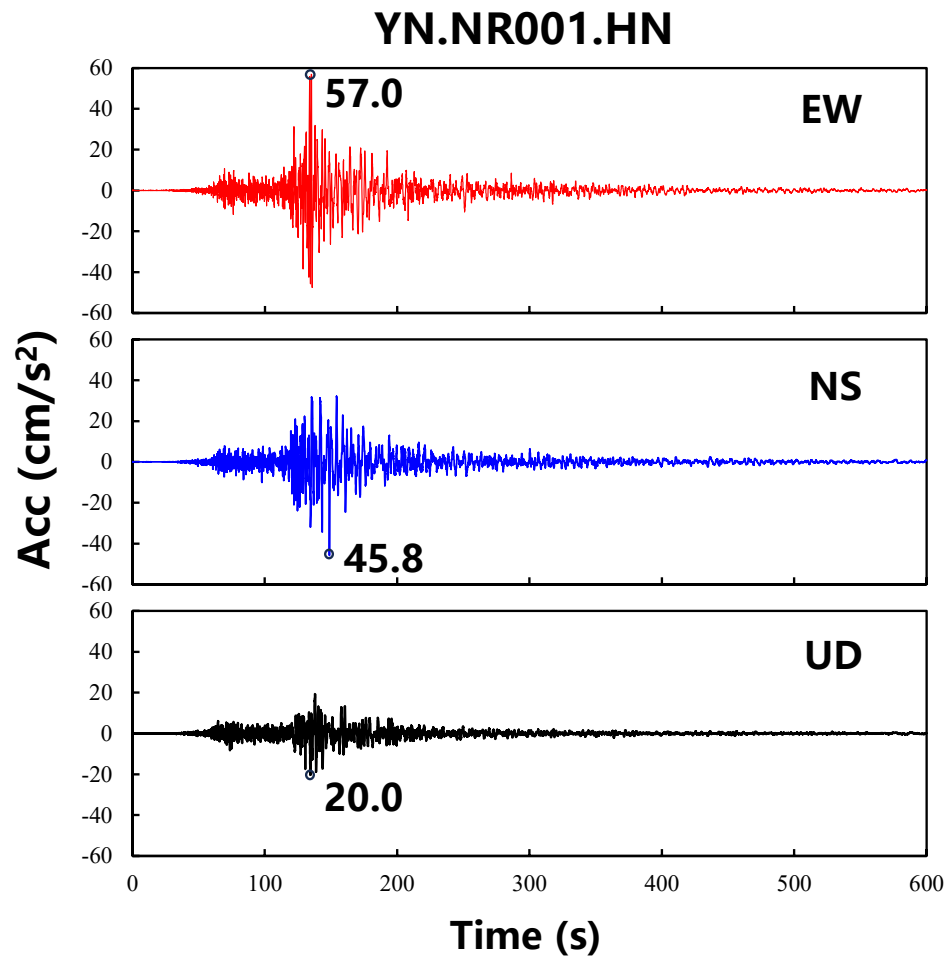
- Strong tremor felt in most of Yunnan
- Damage was reported only in some towns in west Yunnan
- Most damage was reported in Ruili, where two were injured





▲ Strong motion observation station

Ground Motions

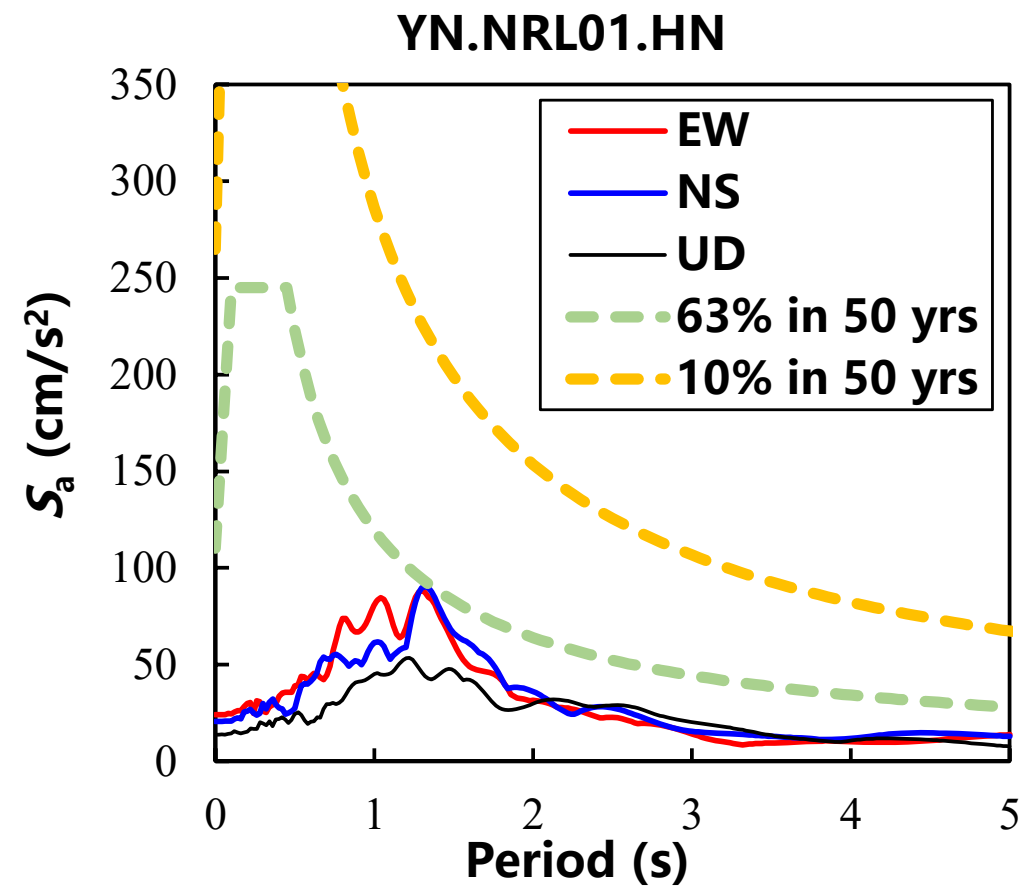
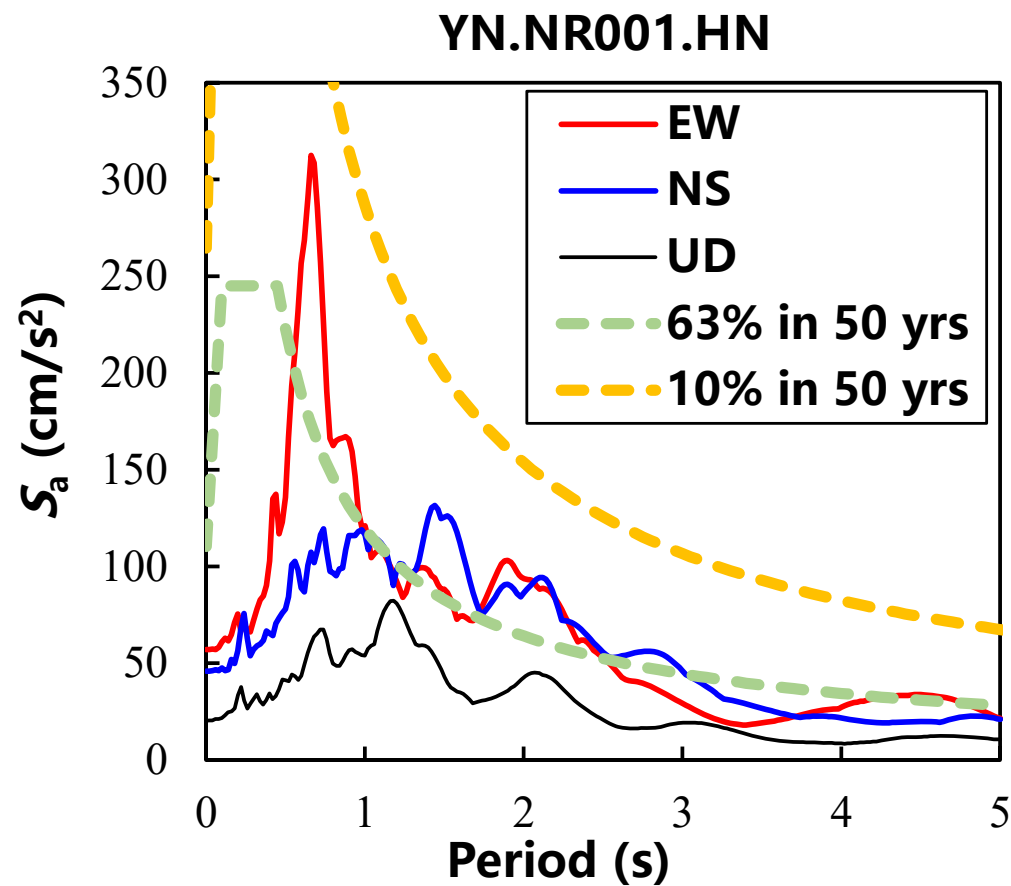


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Data source: Strong Motion Observation Center of the Institute of Engineering Mechanics, CEA

Ground Motions



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6

Data source: Strong Motion Observation Center of the Institute of Engineering Mechanics, CEA

Injuries



Water tanks and some other objects attached on top of a 30-story RC frame-shear wall structure fell and injured two

Courtesy of Yunnan Earthquake Agency

Zhe Qu @ IEM

Urban Residence



Courtesy of Yunnan Earthquake Agency

Zhe Qu @ IEM

Rural houses



Courtesy of Yunnan Earthquake Agency

Zhe Qu @ IEM

Schools (seismically isolated RC frames)



Nongdao Central Primary School
RC frame
4-story above ground

Courtesy of Yunnan Earthquake Agency

Zhe Qu @ IEM

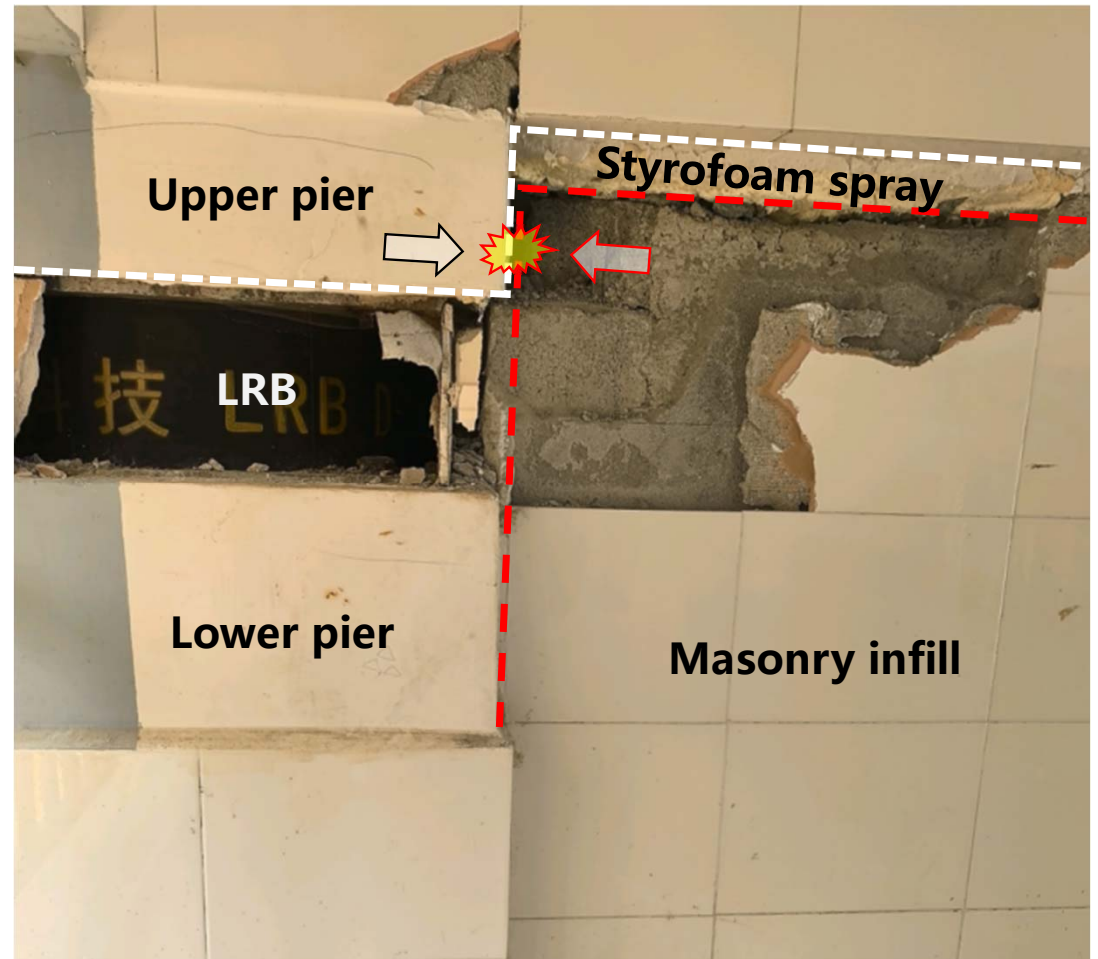


Schools (seismically isolated RC frames)



Hunban Central Primary School

Courtesy of Yunnan Earthquake Agency



Zhe Qu @ IEM

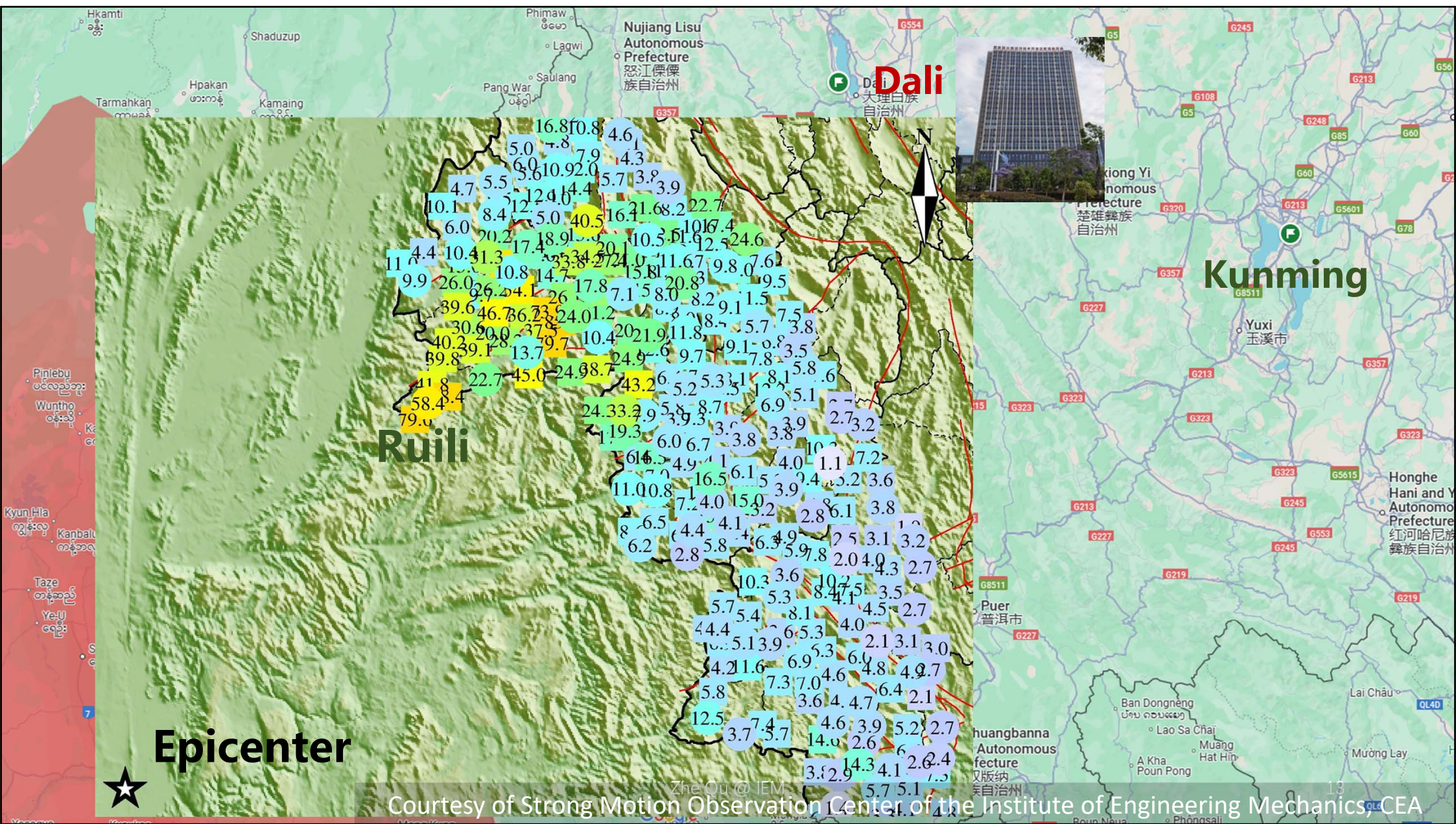
Non-building Structures



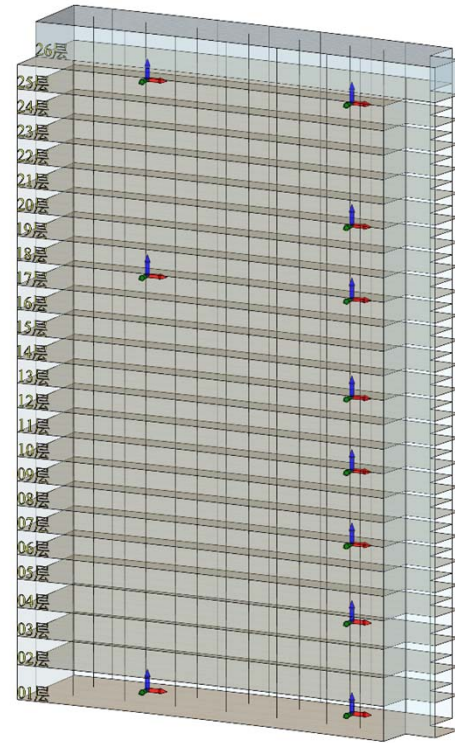
Courtesy of Yunnan Earthquake Agency



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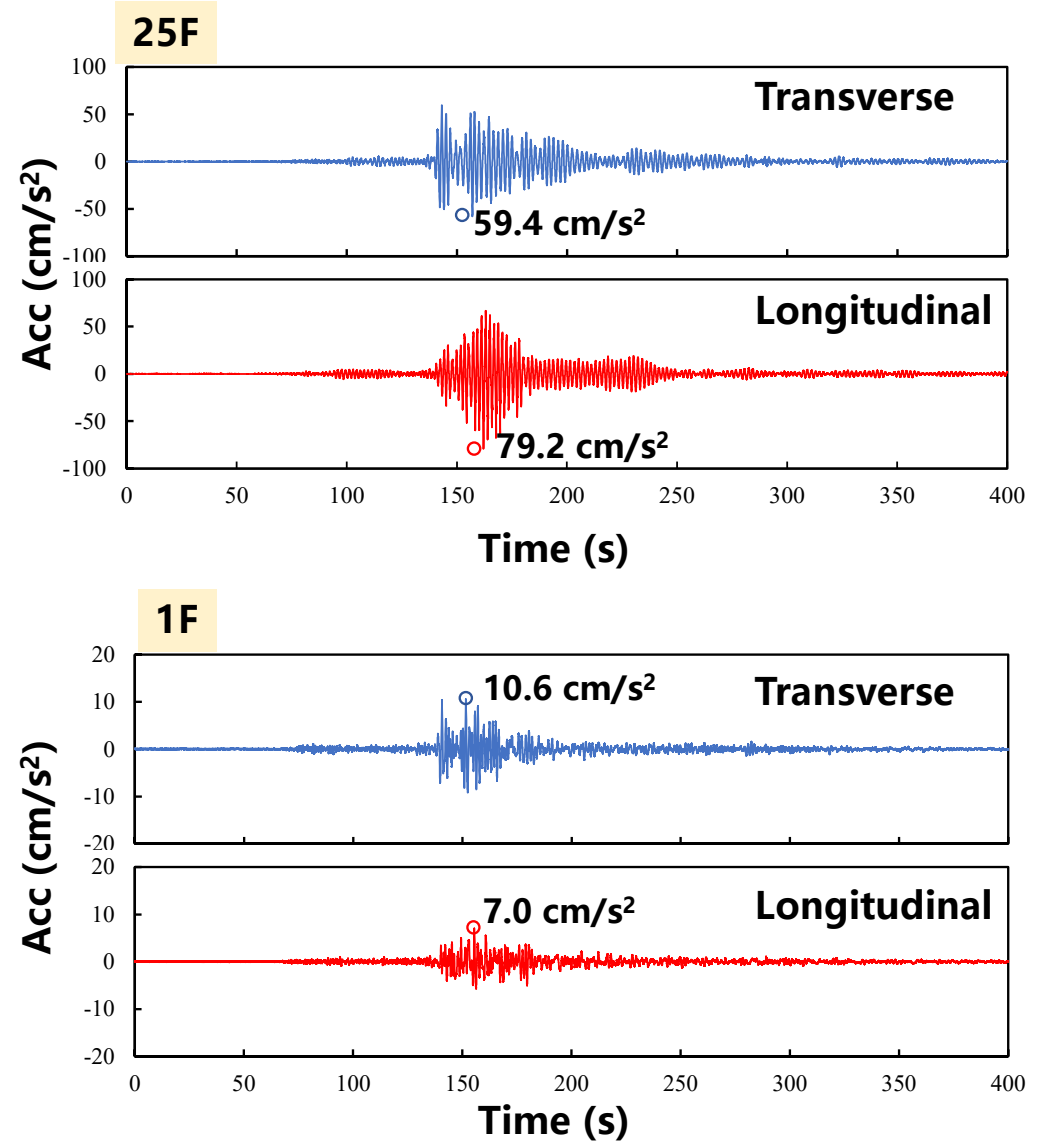
Courtesy of Strong Motion Observation Center of the Institute of Engineering Mechanics, CEA



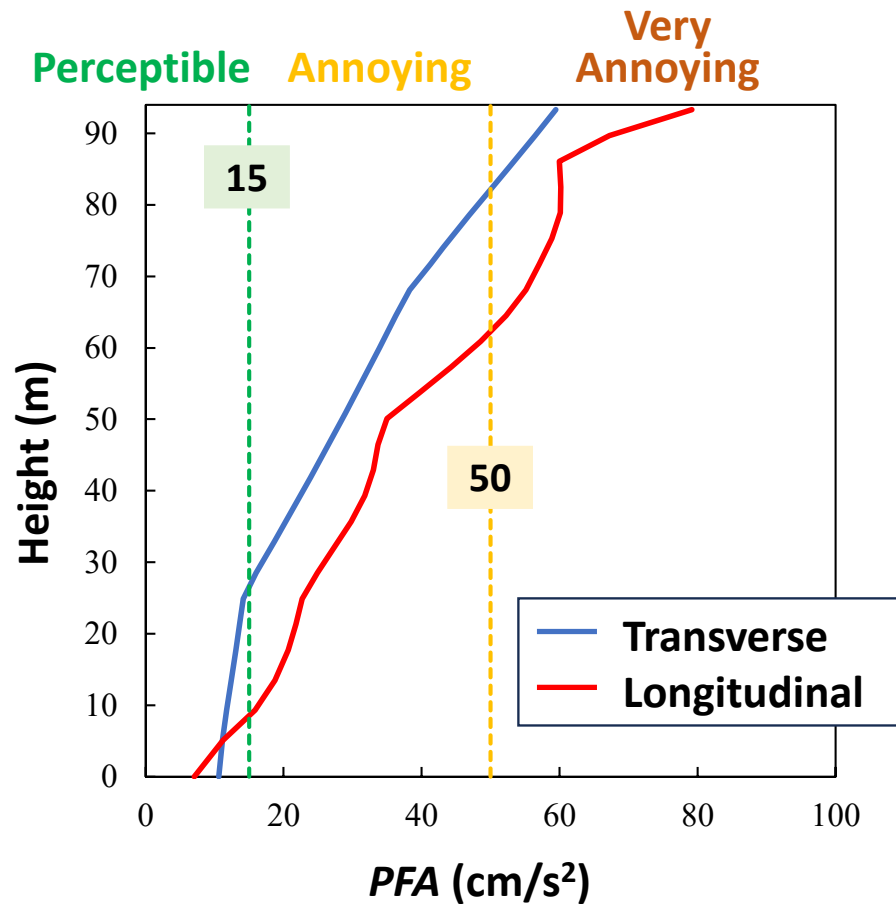
- **Governmental office**
- **RC frame-shear wall structure**
- **26-story above ground + 1-story basement**
- **In service since 2018**
- **Instrumented since 2019**

Courtesy of Yunnan Earthquake Agency

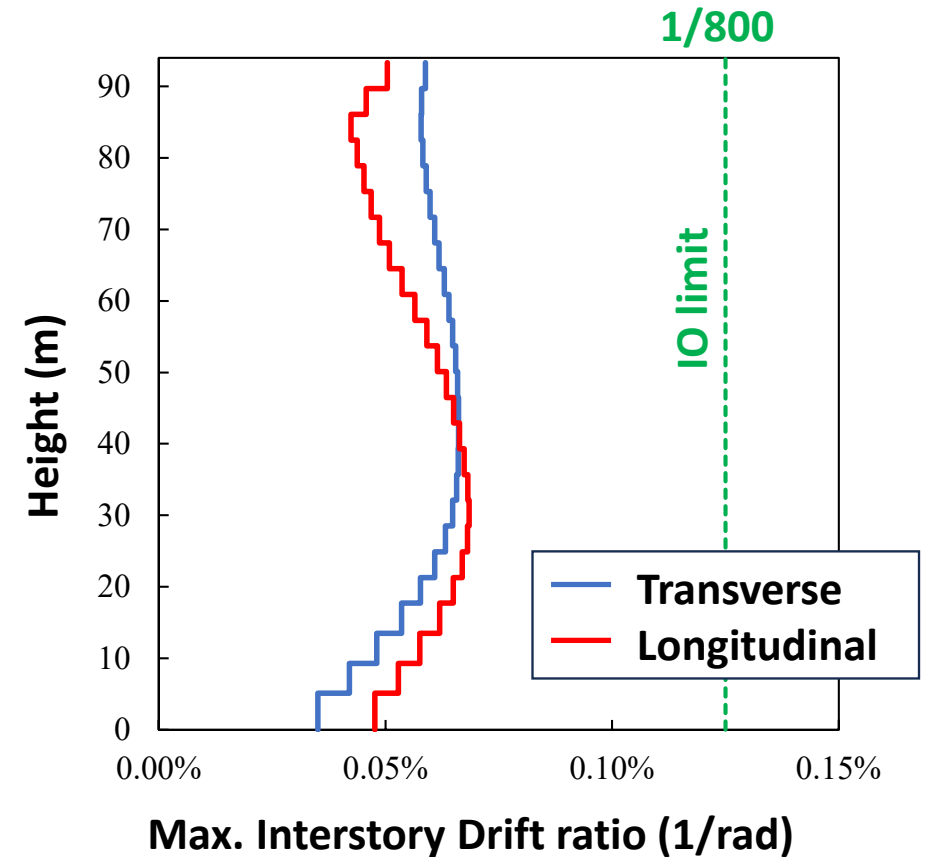
Zhe Qu @ IEM



Comfort



Safety



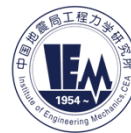
Chang, F.K., Human Response to Motion in Tall Buildings, Journal of the Structural Division, ASCE, 99(ST6), 1973: 1259-1272.

GB 50011-2010, Code for Seismic Design of Buildings, 2016.

Thanks for your attentions

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