

# Current research & expertise



**Dr Vasiliki  
Mouslopoulou**

**Senior  
Scientist  
National  
Observatory of  
Athens (NOA)  
Greece**

## Understanding the Earthquake Cycle:

- Earthquake recurrence, clustering, rate variability
- Fault growth over thousands of years
- Co-seismic strain accumulation/release
- Paleoseismology

## Deformation of convergent margins:

- Decoding vertical forearc movements (i.e. Hellenic Subduction System / Hikurangi margin in NZ)
- Forearc structure and kinematics, wedge stability
- Subduction seismogenesis & tsunamigenesis
- Seismic potential of the megathrust
- Hydrocarbon exploration / seismic interpretation

## Natural Hydrogen:

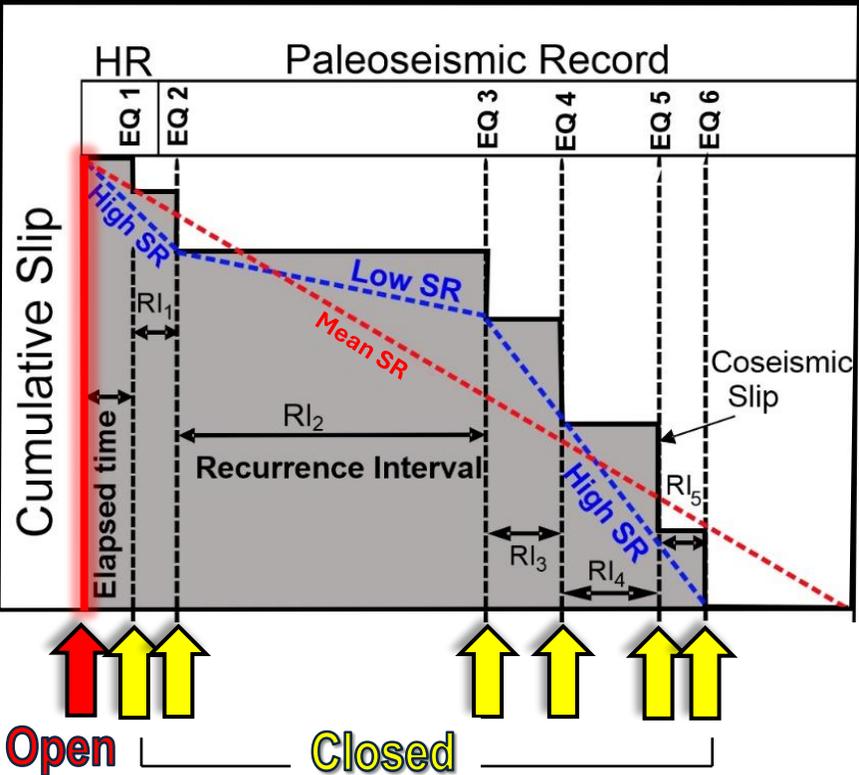
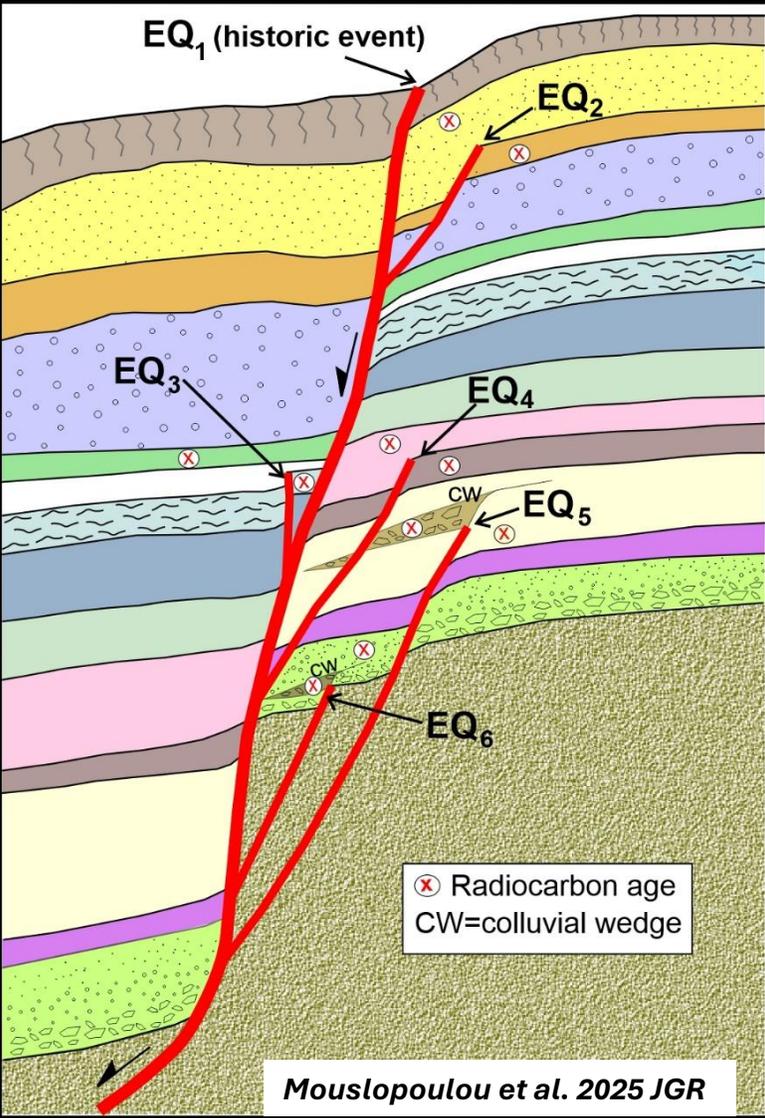
- Exploration for Nat. H<sub>2</sub> in Greece



seismic  
hazard

energy  
resources  
exploration

# Understanding the Earthquake Cycle



- Earthquake recurrence
- Elapsed times
- Earthquake clustering
- Slip rate variability
- Fault growth
- Strain accumulation/release
- Fault interactions

feed into seismic hazard models

