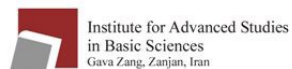


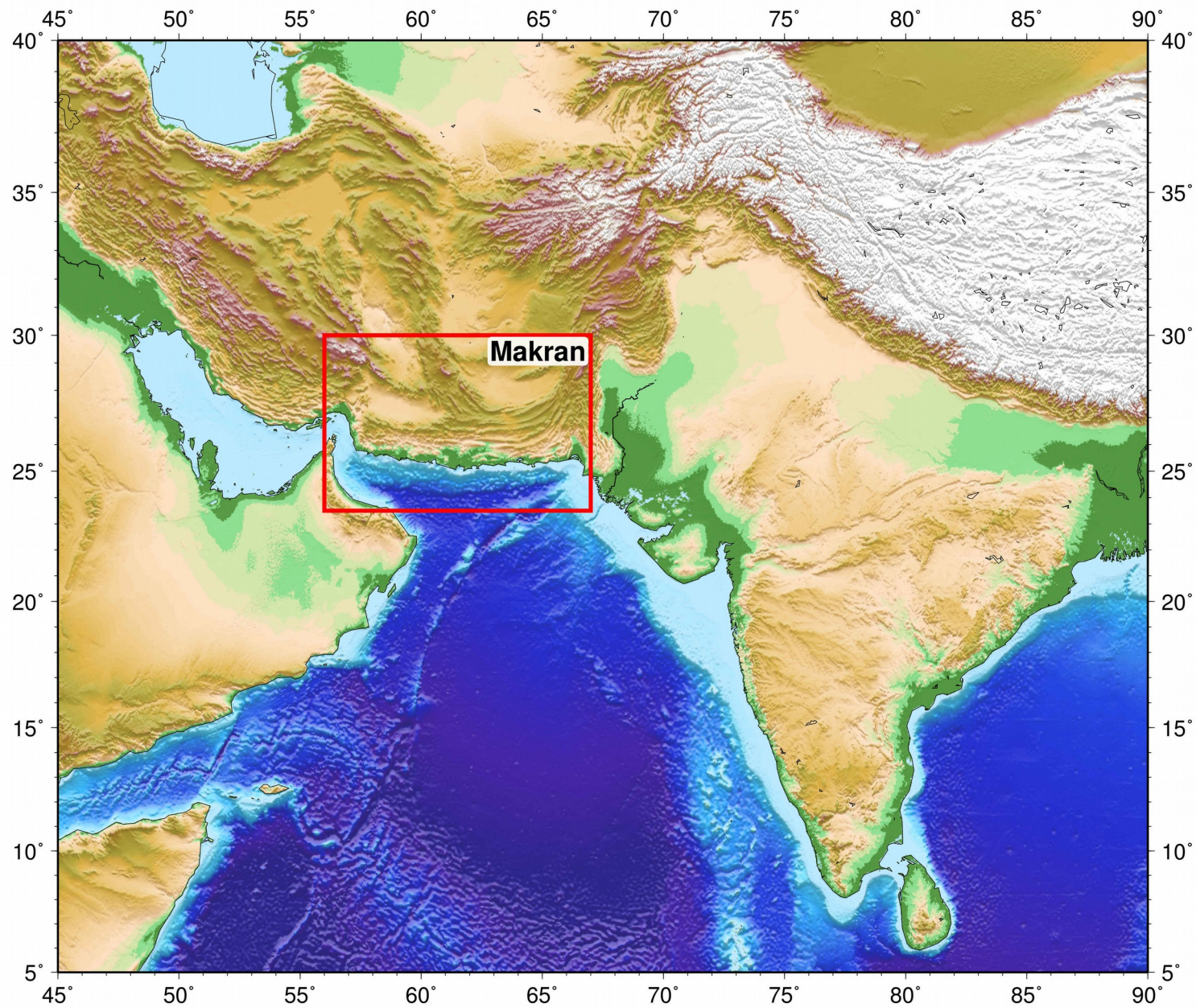
# Assessing hazard in inaccessible regions: the Makran subduction zone

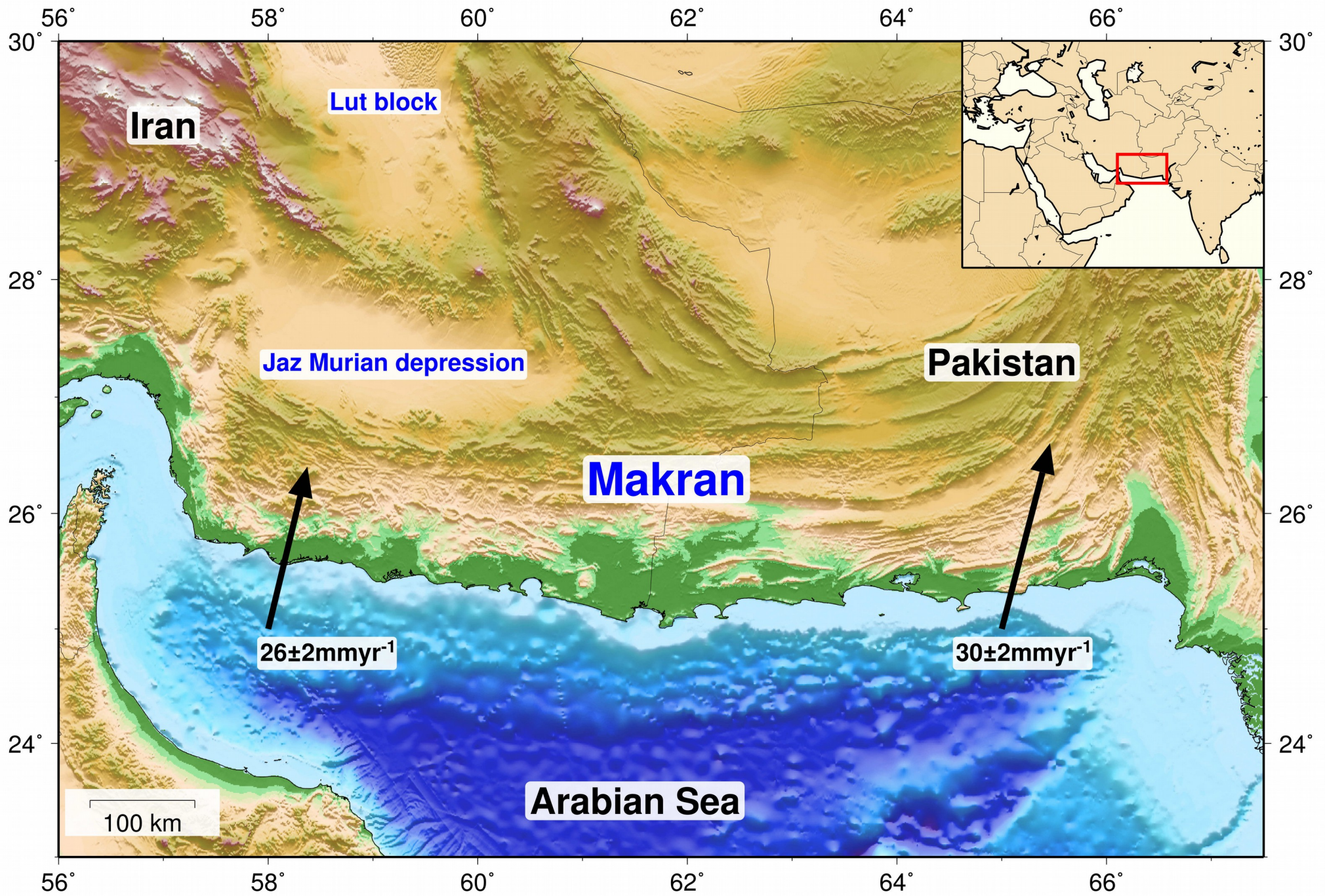
Camilla Penney  
cp451@cam.ac.uk

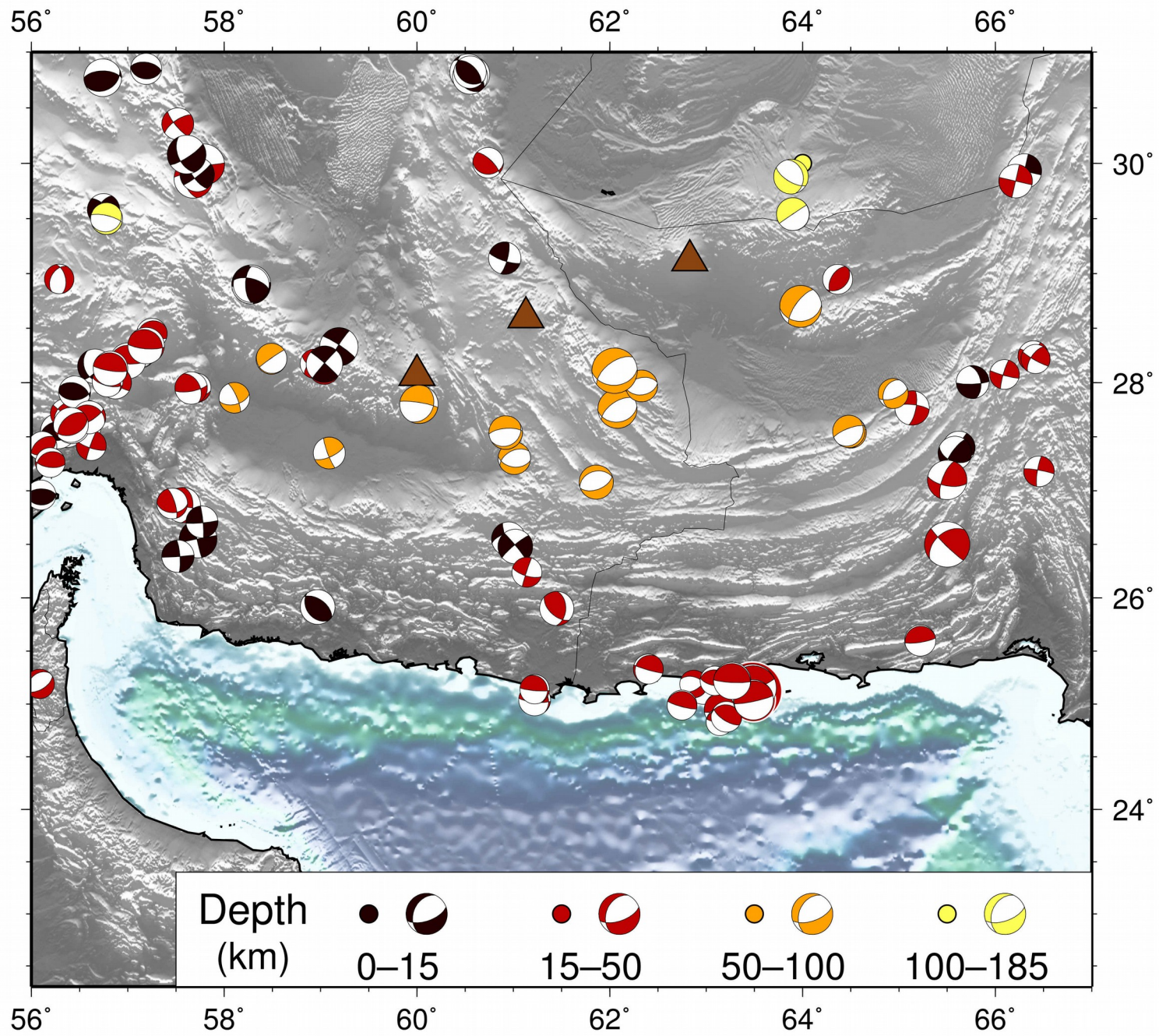
Farokh Tavakoli, Abdolreza Saadat, Hamid Reza Nankali, Morteza Sedighi, Fateme Khorrami, Farhad Sobouti, Zahid Rafi, Alex Copley, James Jackson, Keith Priestley

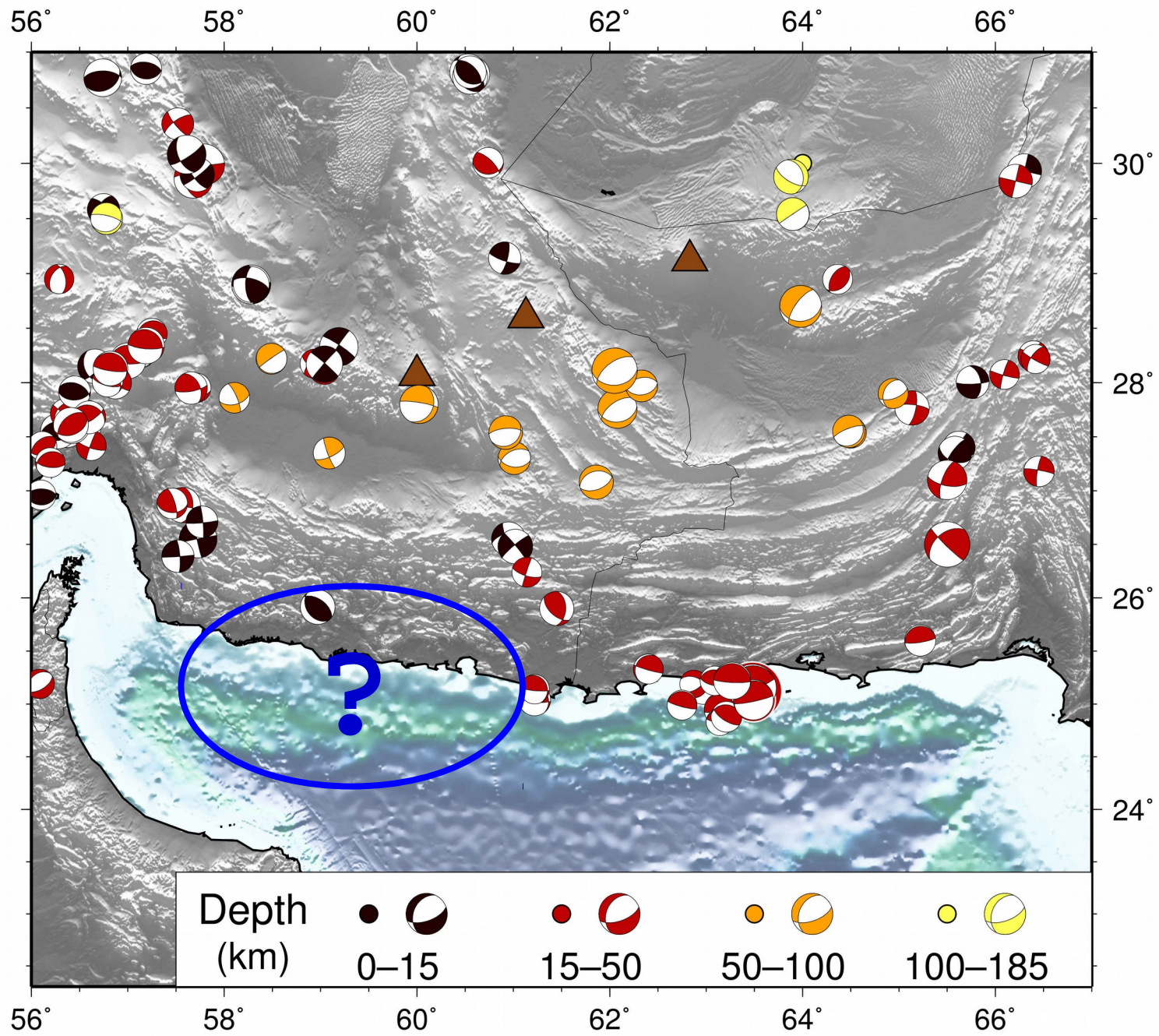


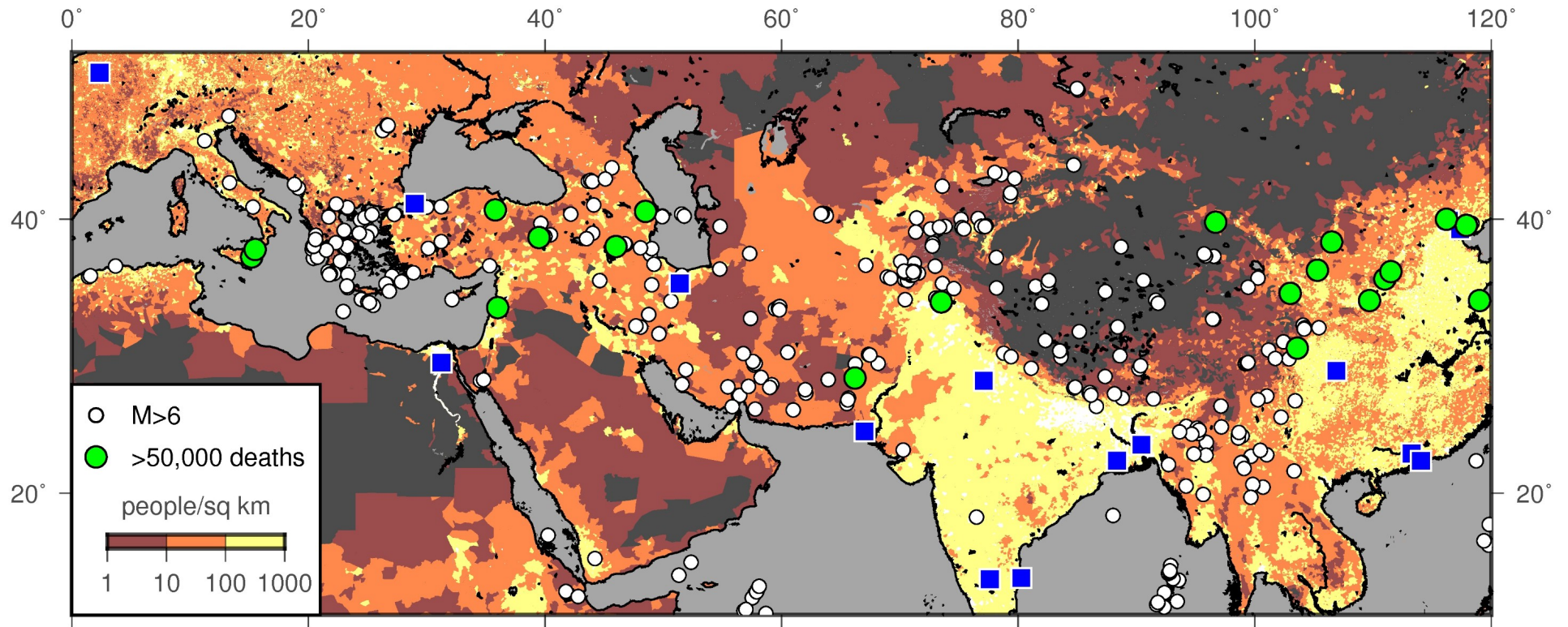
Google earth

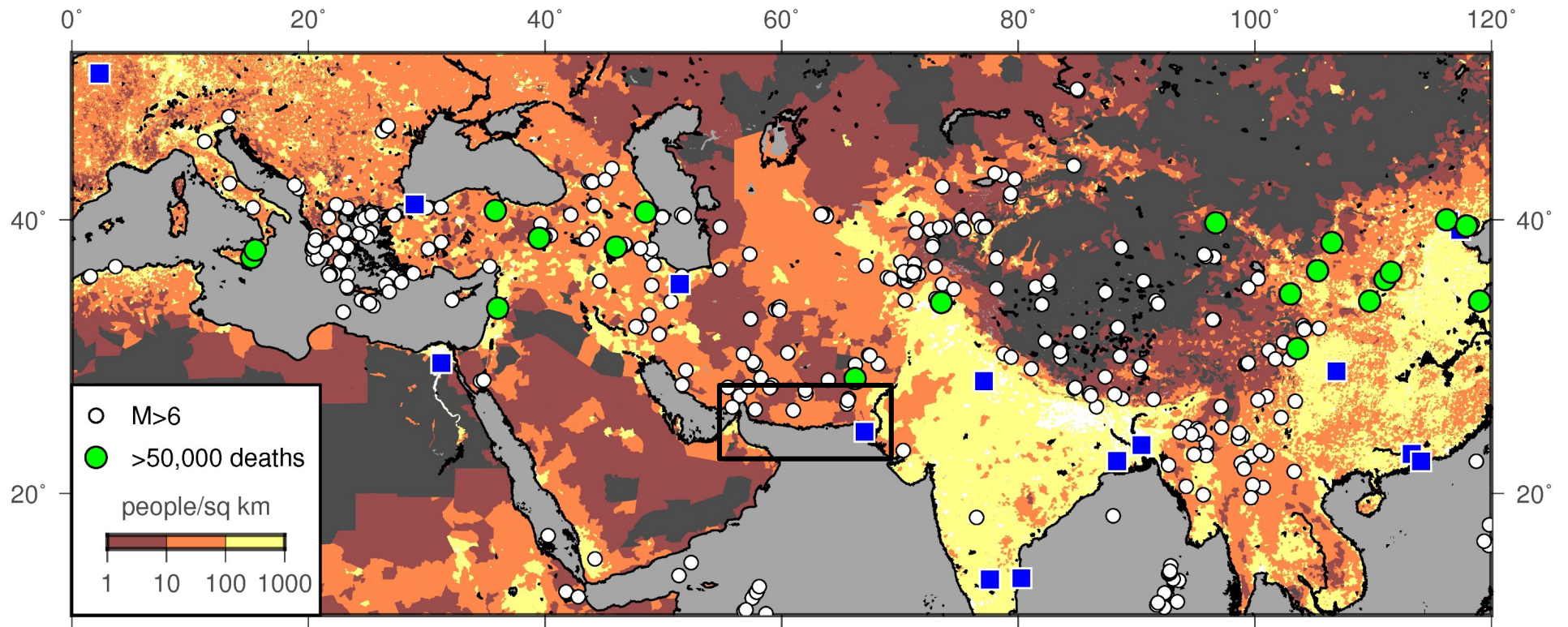


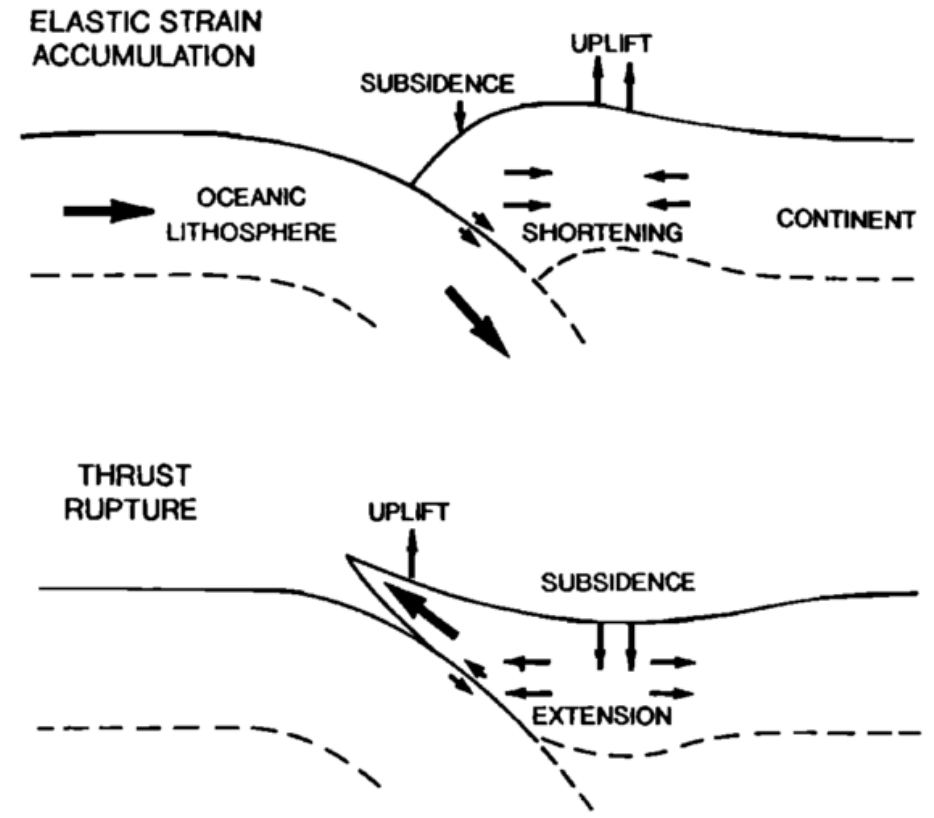
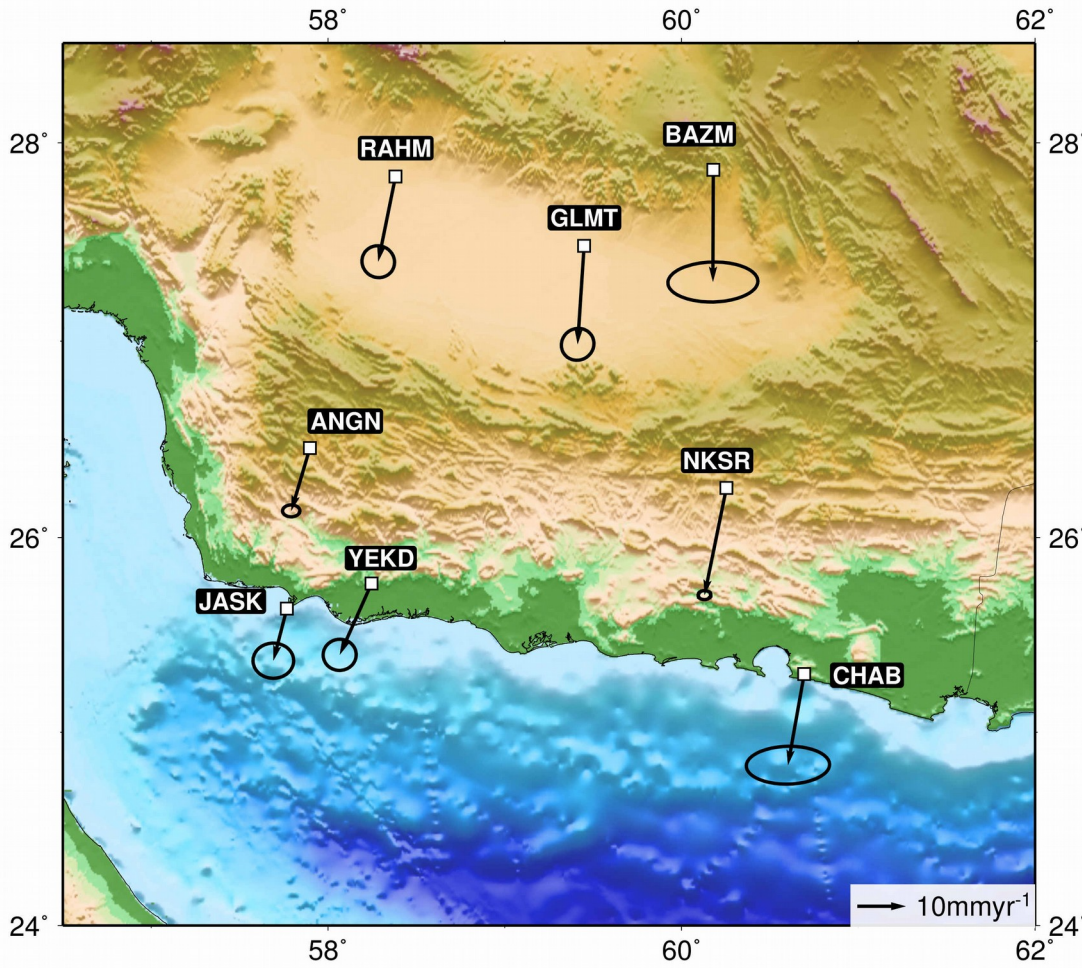






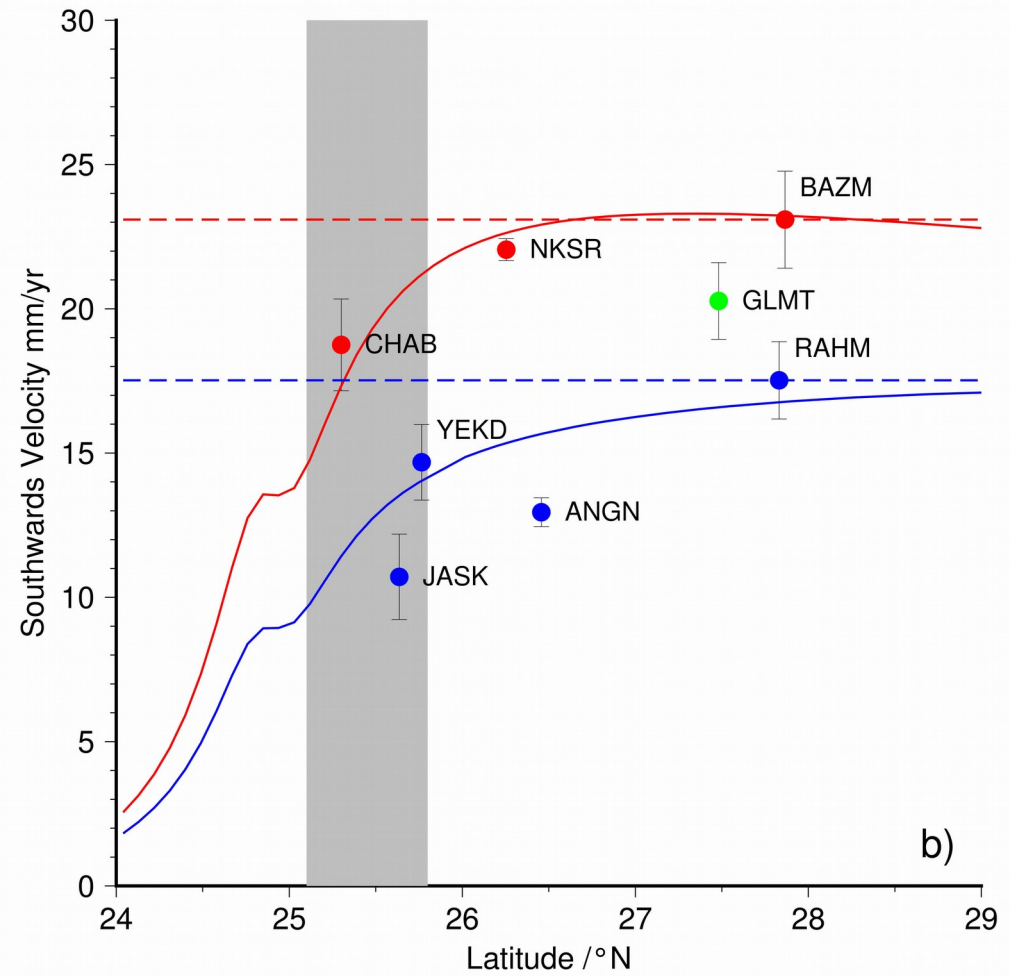
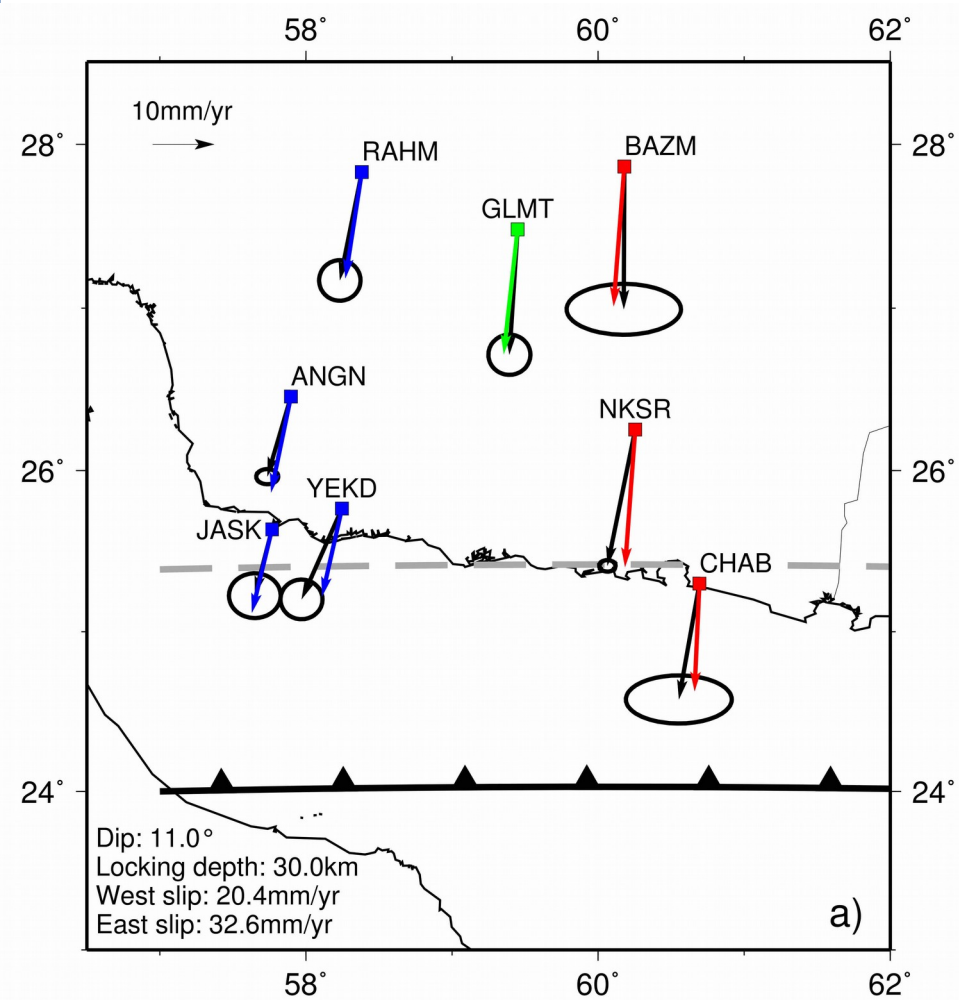


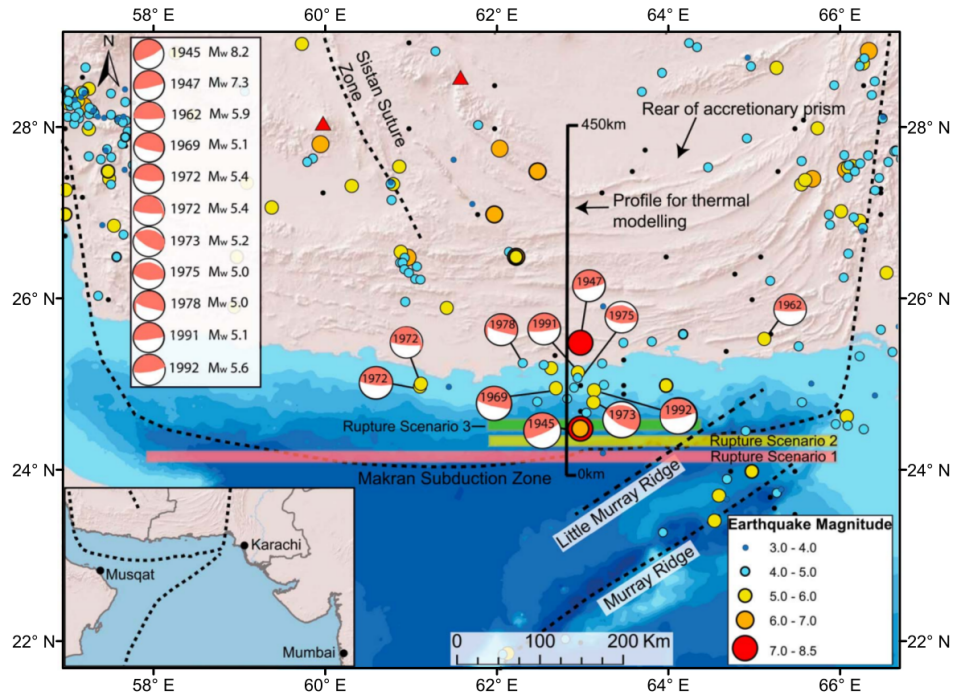




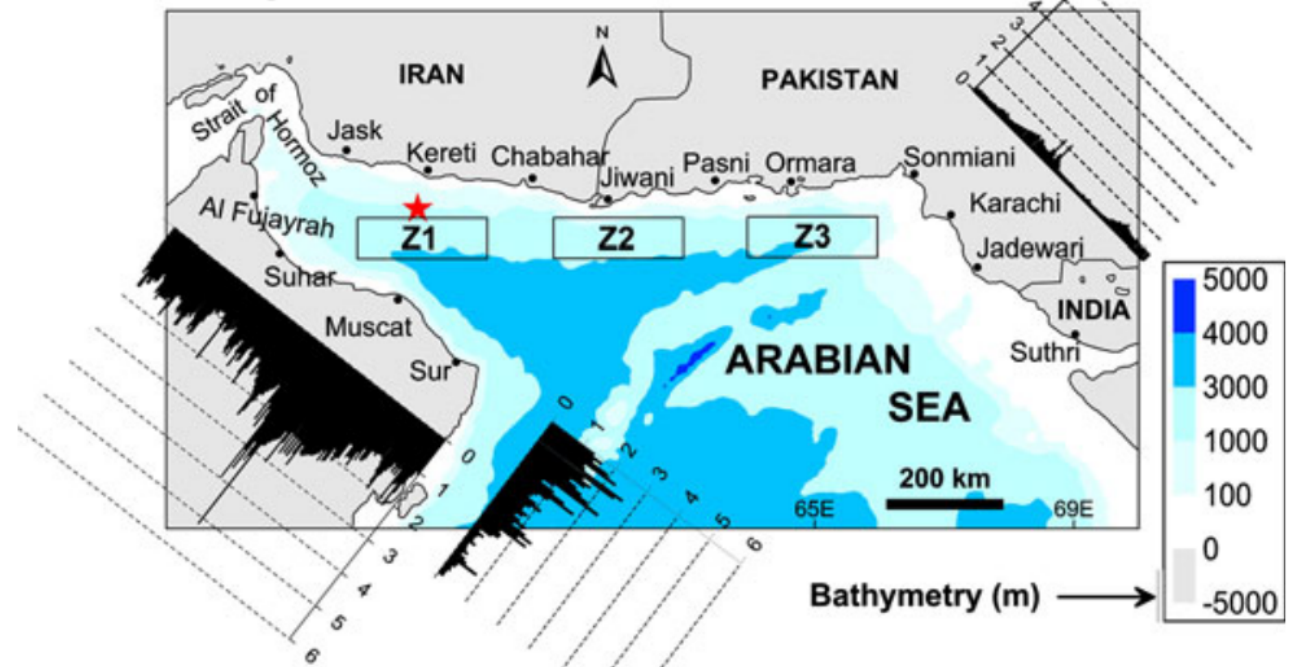
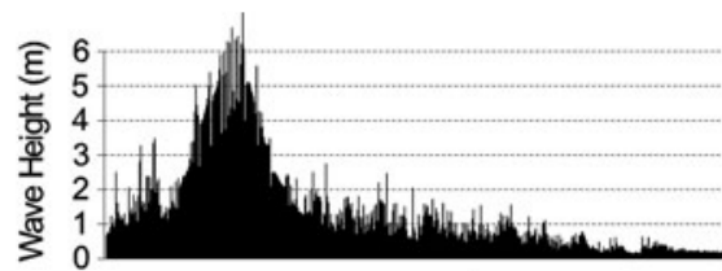
Hyndman & Wang, 1993



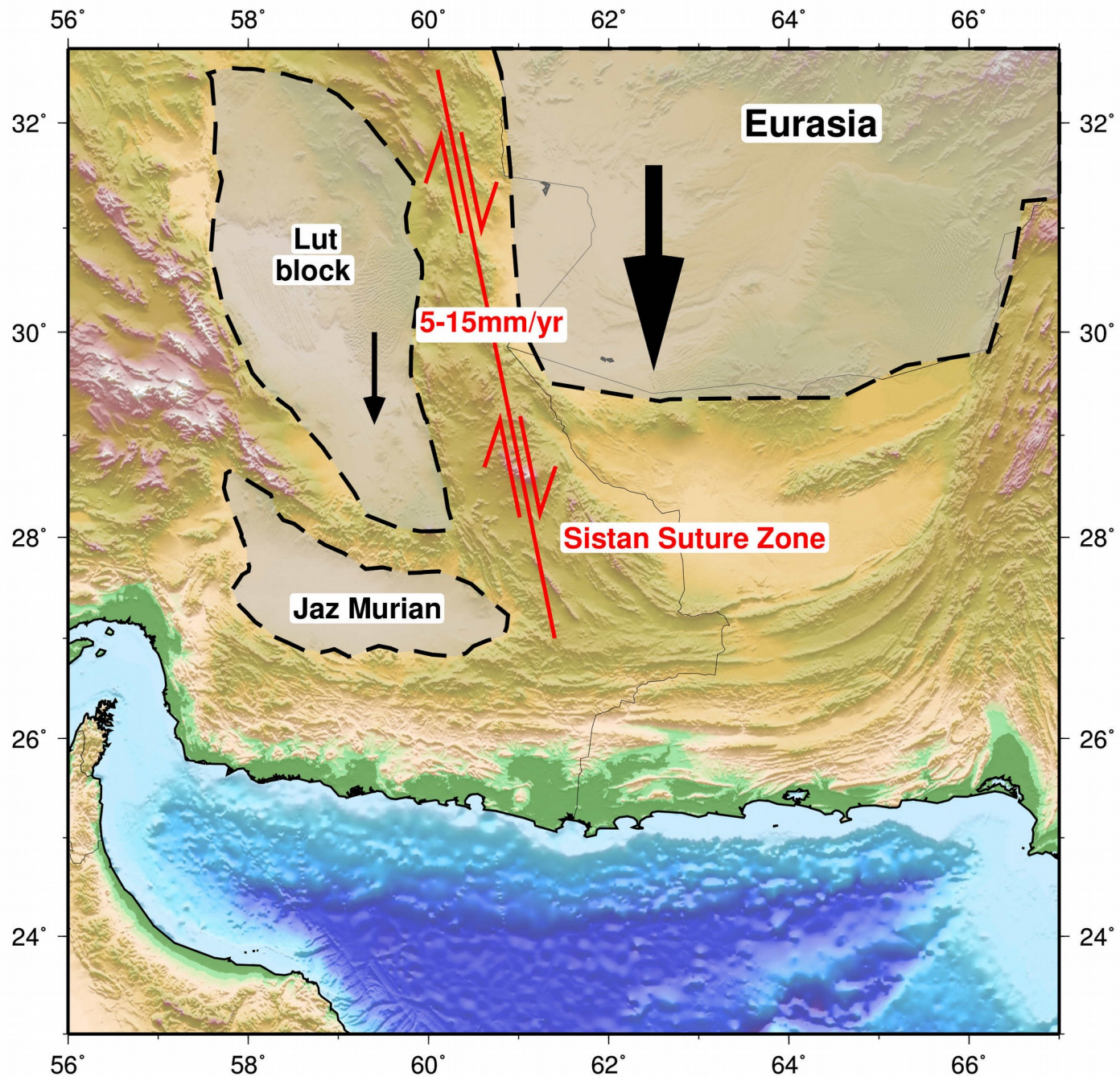


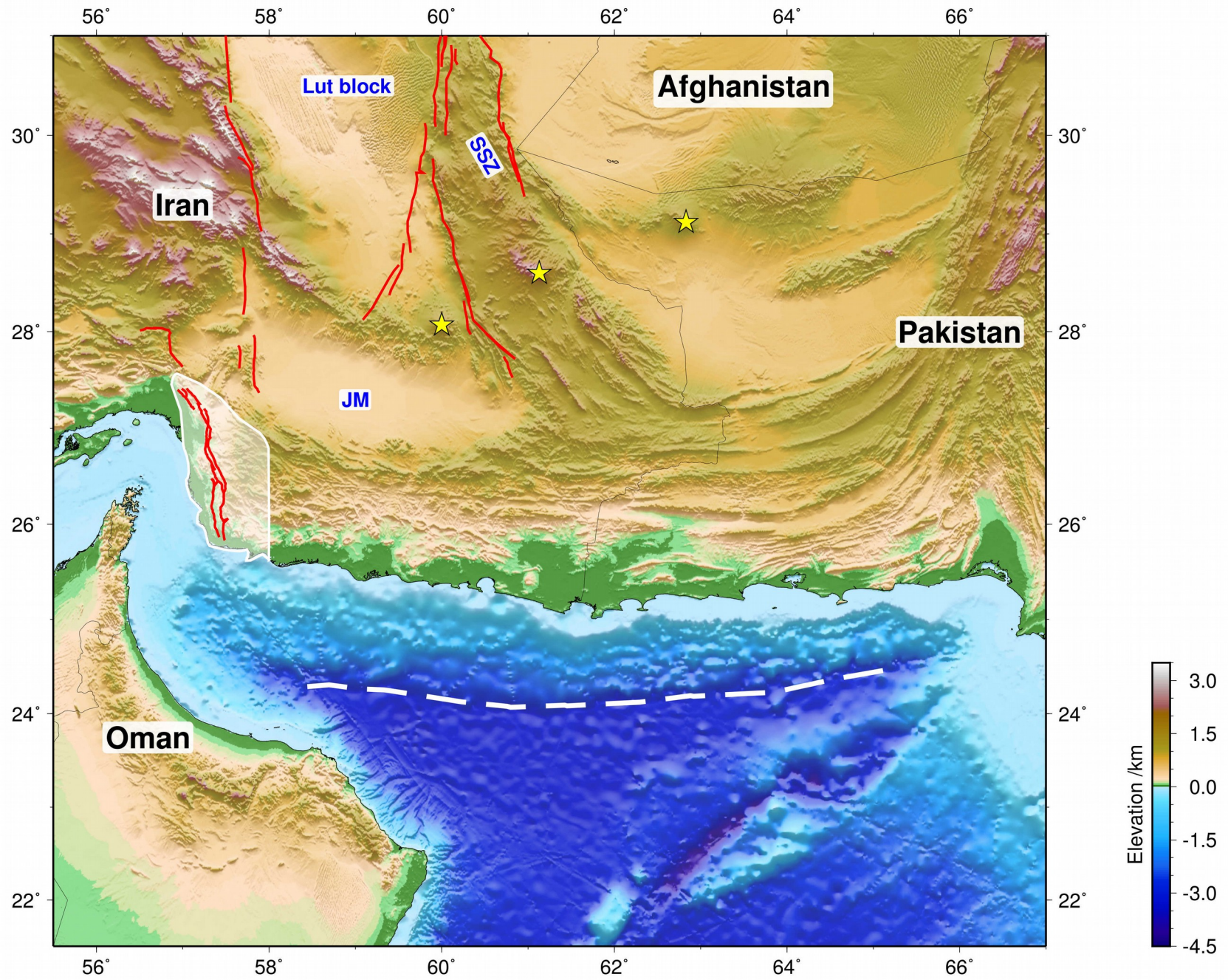


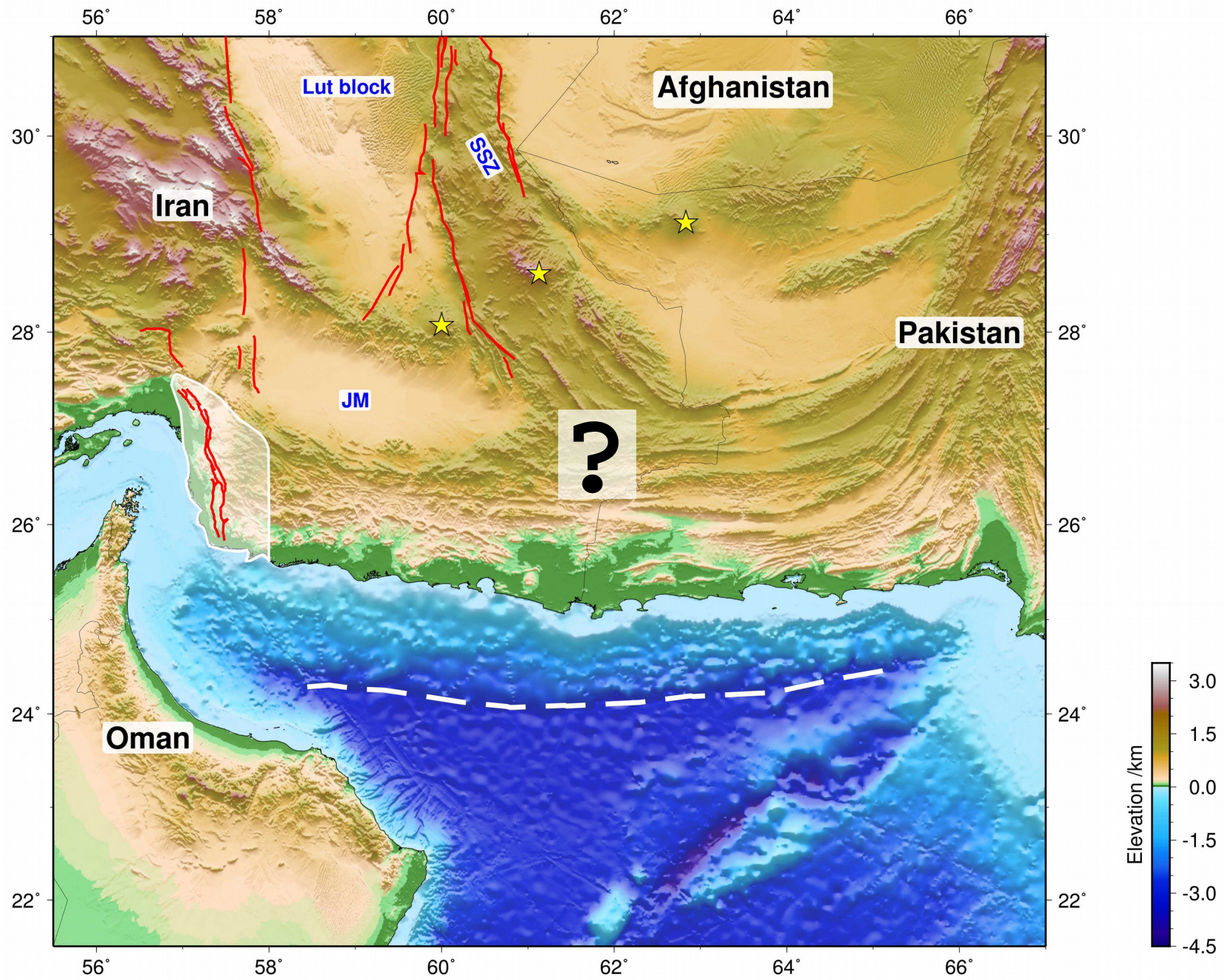
Smith et al., 2013

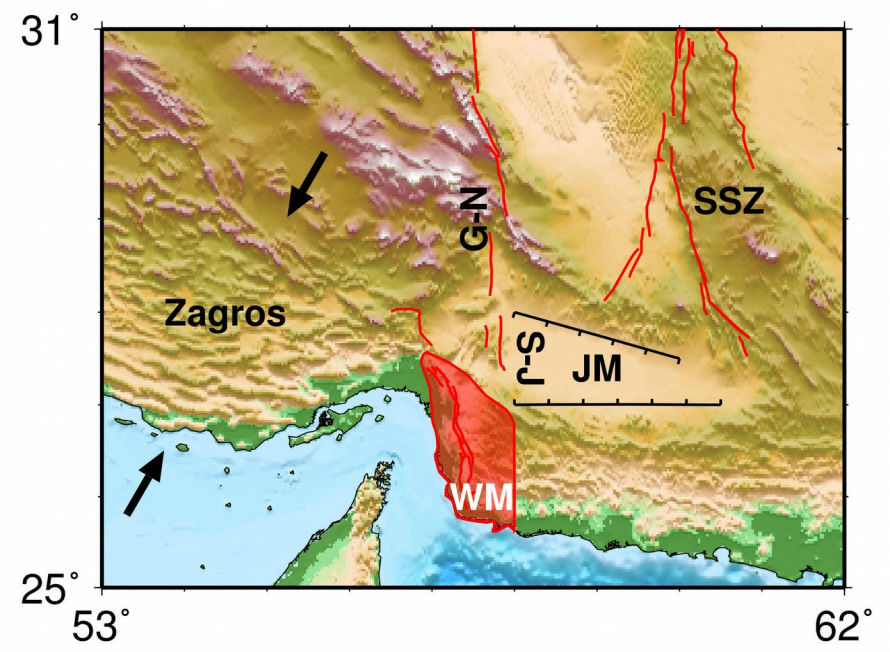
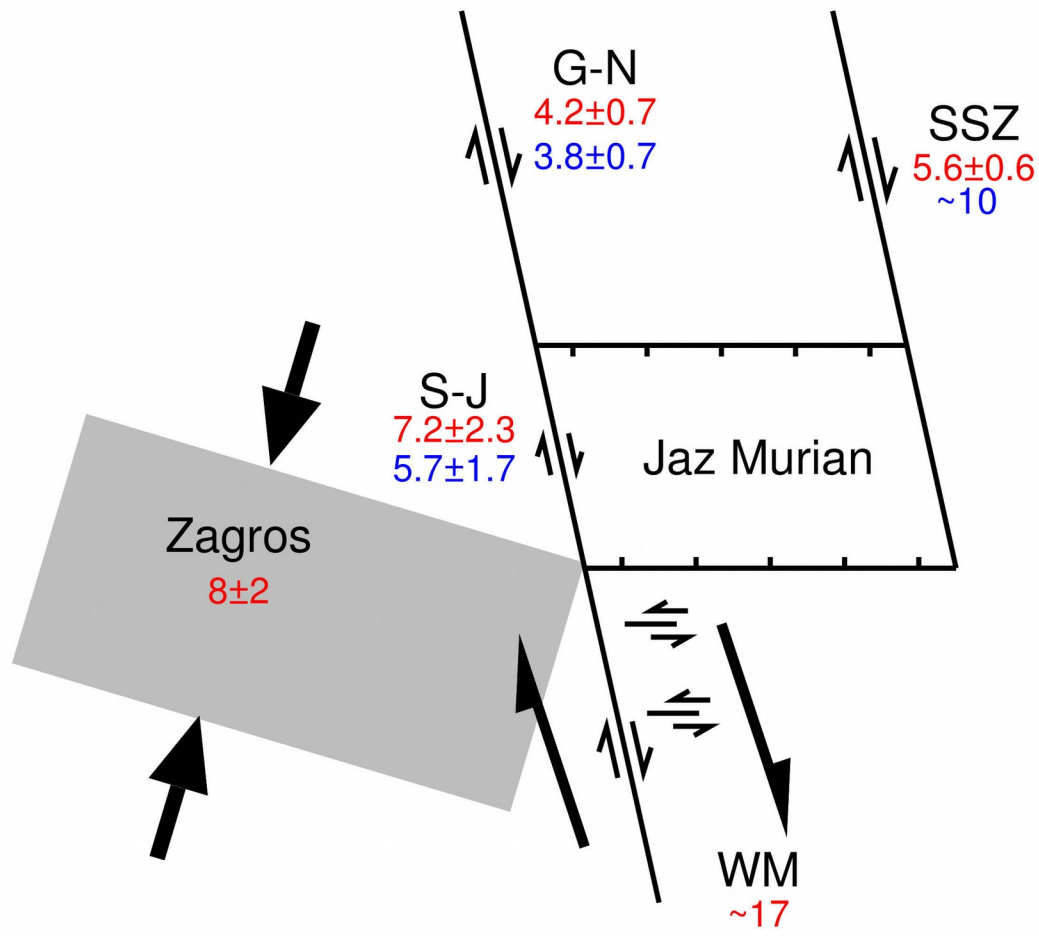


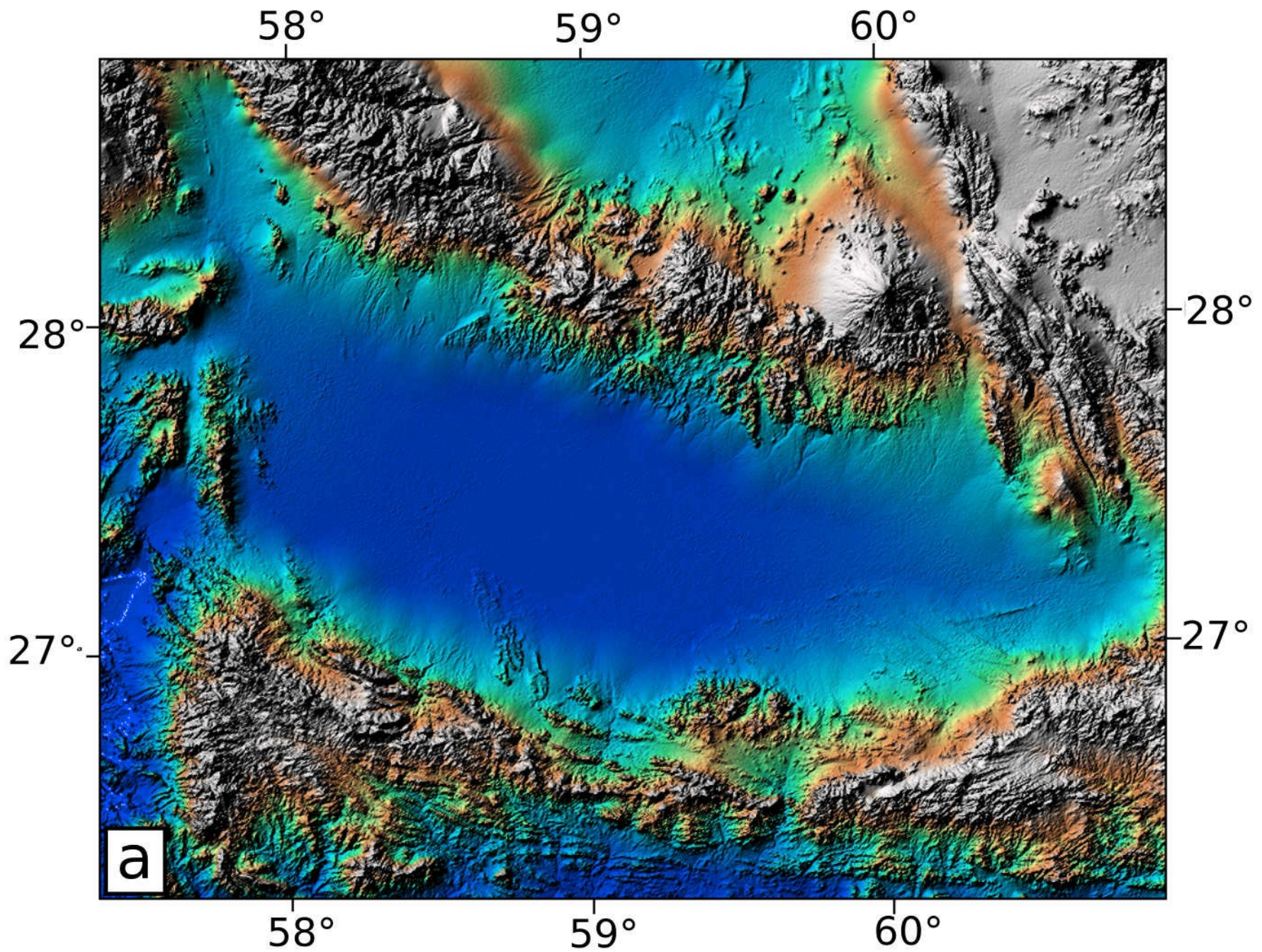
Heidarzadeh & Kijko, 2011

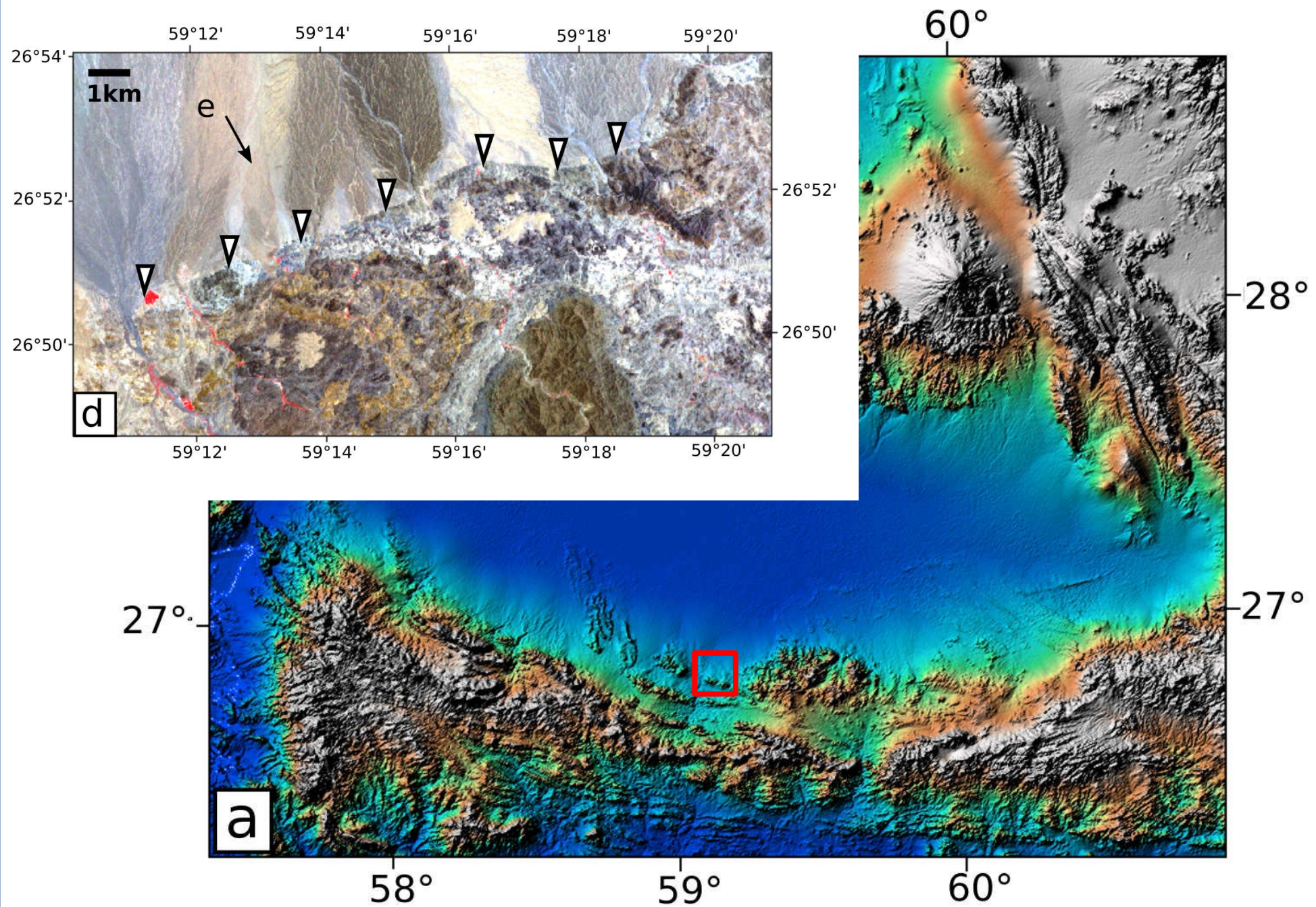




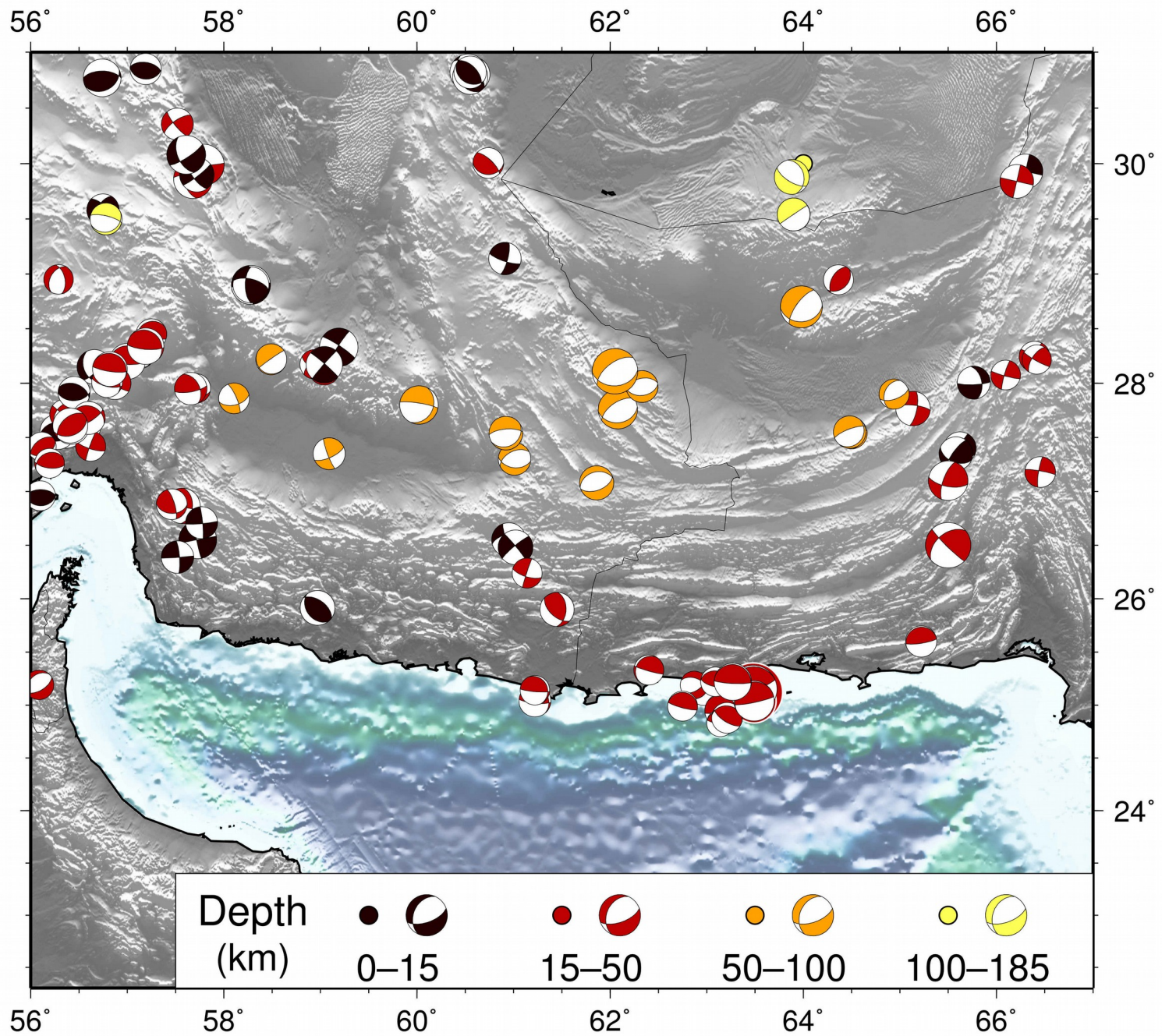




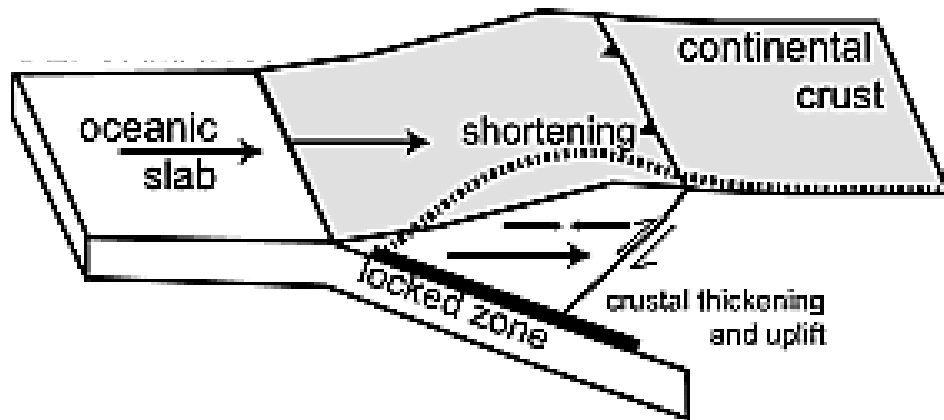




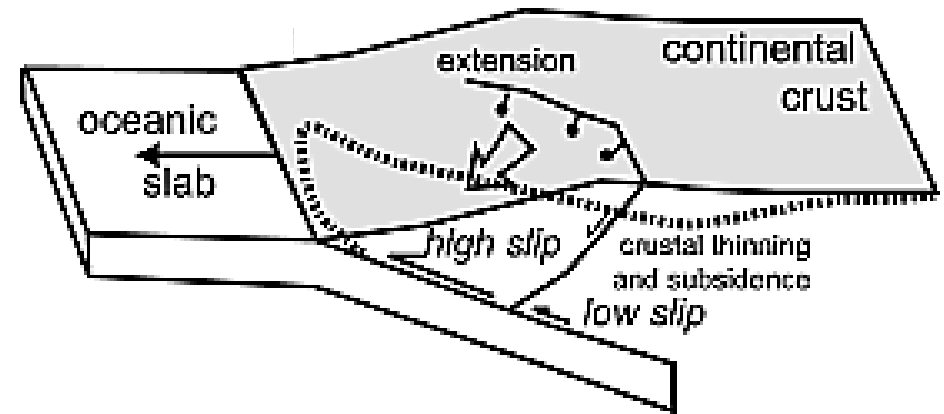




Before a megathrust earthquake:



After a megathrust earthquake:



Fariás et al., 2011

# Conclusions

- The western (Iranian) Makran megathrust is building up strain, not sliding freely.
- This means that the Makran subduction zone may be able to produce a Mw 9 earthquake (and associated tsunami).
- Such an earthquake could trigger further onshore earthquakes.
- Hazard assessment in difficult-to-access locations requires a multi-disciplinary approach.

For more details see: Penney et al., 2017, Megathrust and accretionary wedge properties and behaviour in the Makran subduction zone, *GJI*