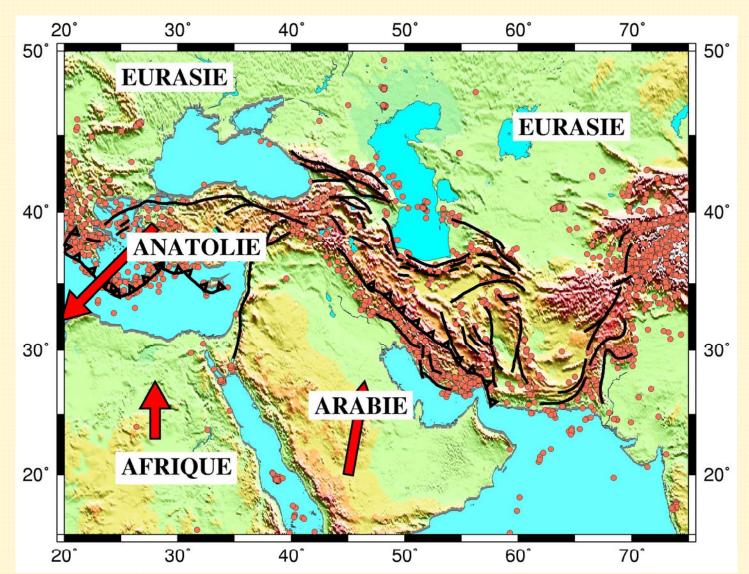
Seismological aspects of the Firoozabad-Kojoor Earthqauke (28 May 2004, Ms=6.3)

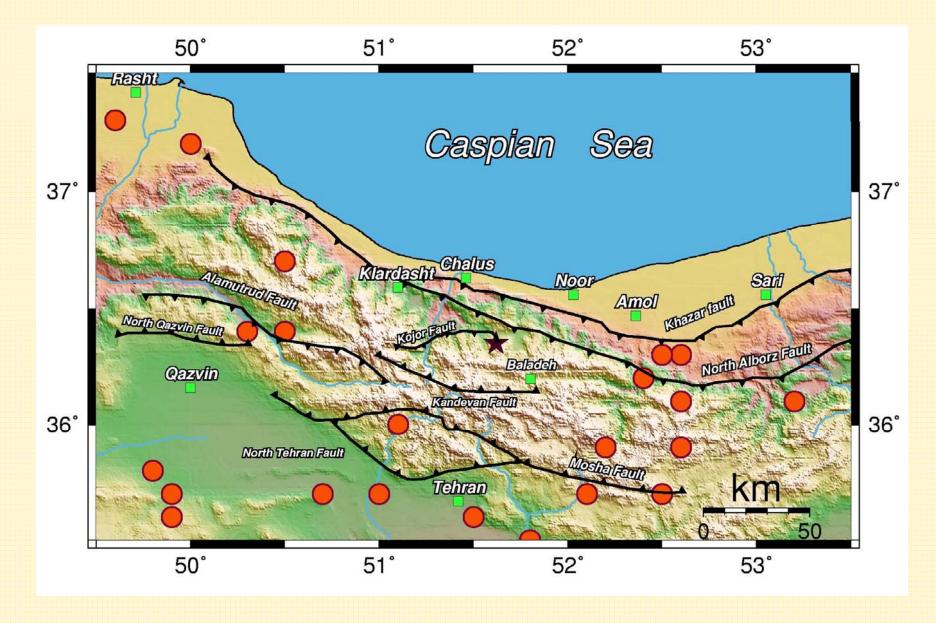
M. Tatar, A.M. Farahbod



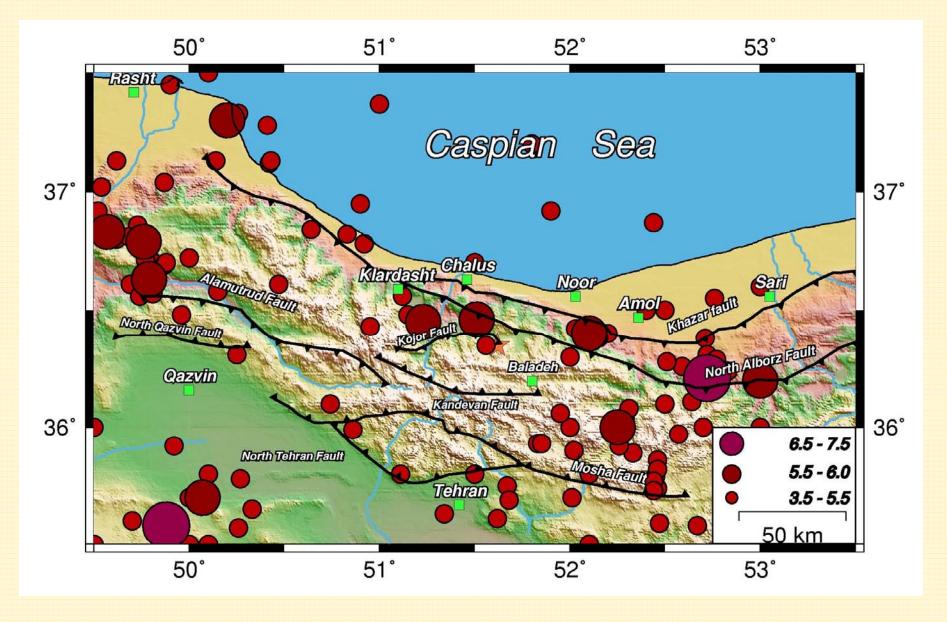


Iran Continental Collision Zone

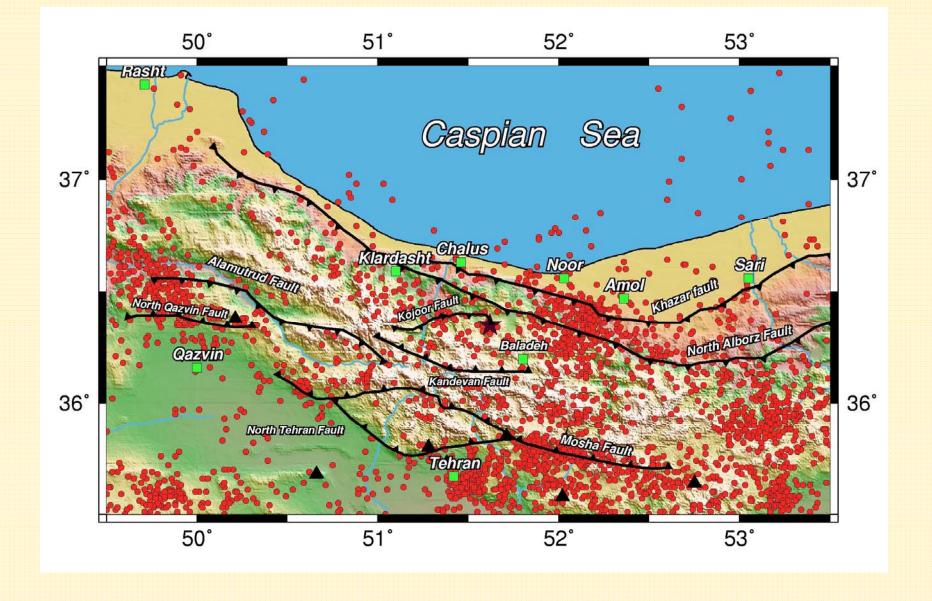
Historical Seismicity



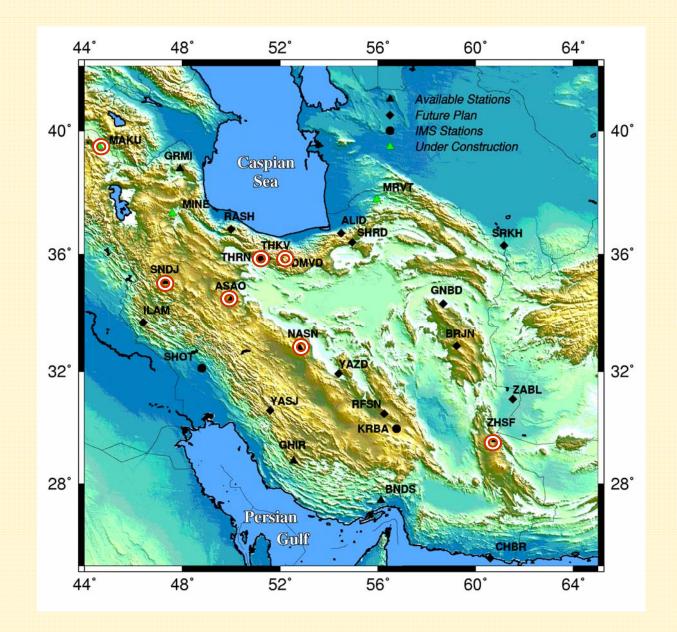
Instrumental Seismicity



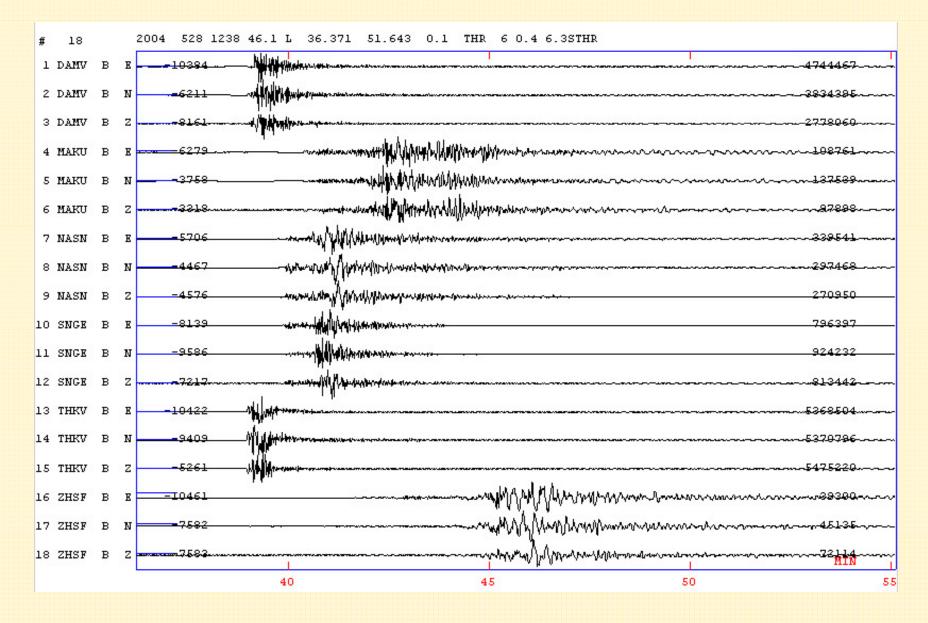
Local Seismicity



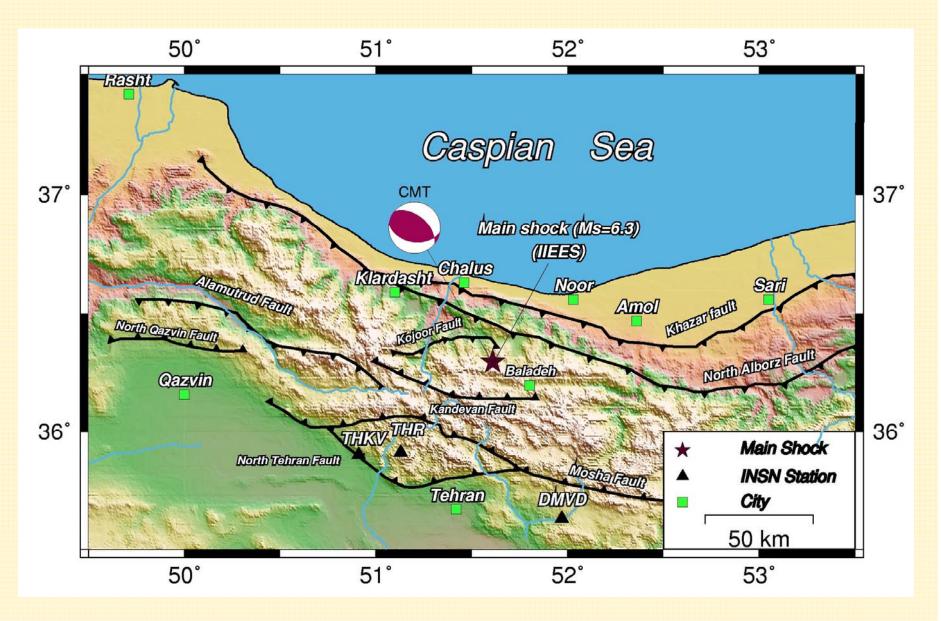
Iranian National Seismic Network (INSN)



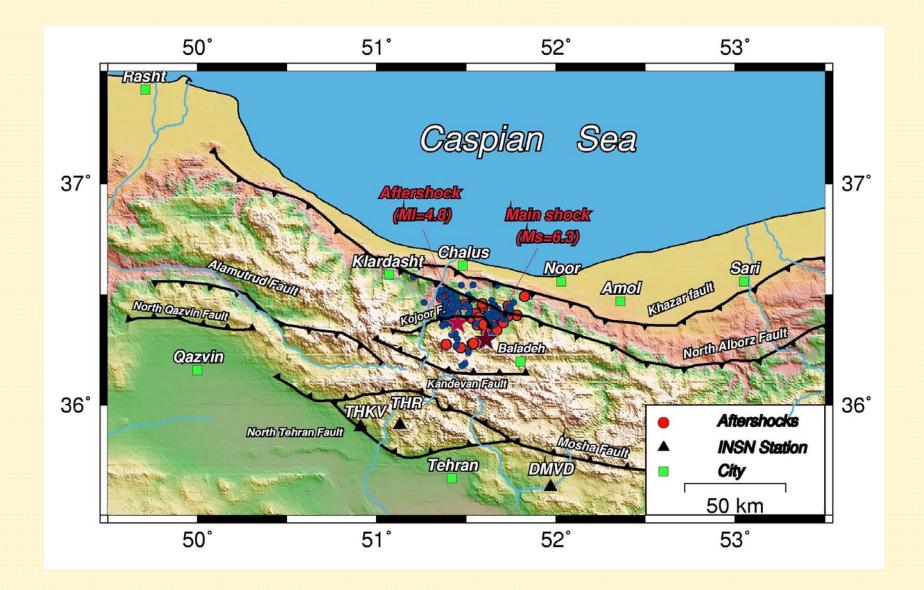
Main shock (Ms=6.3)



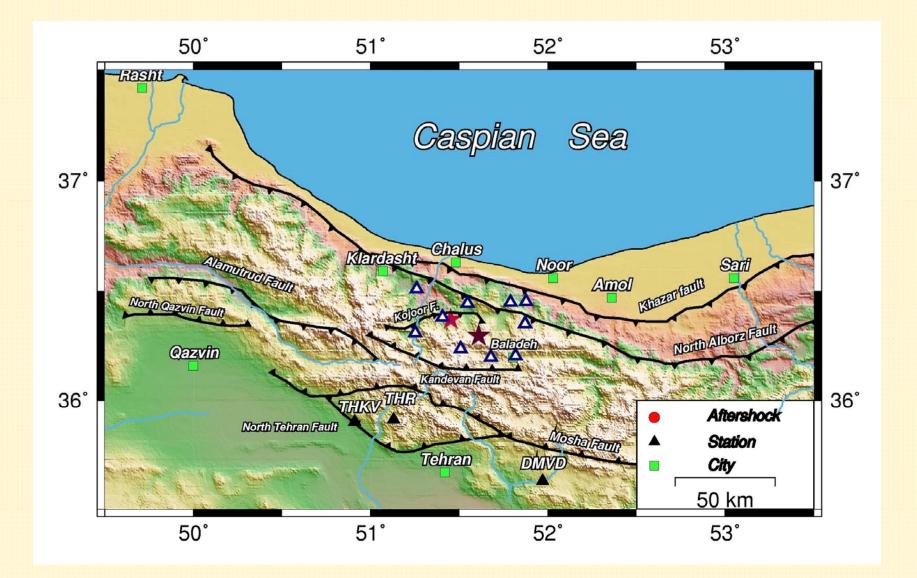
Firoozabad-Kojoor Earthqauke (Ms=6.3)



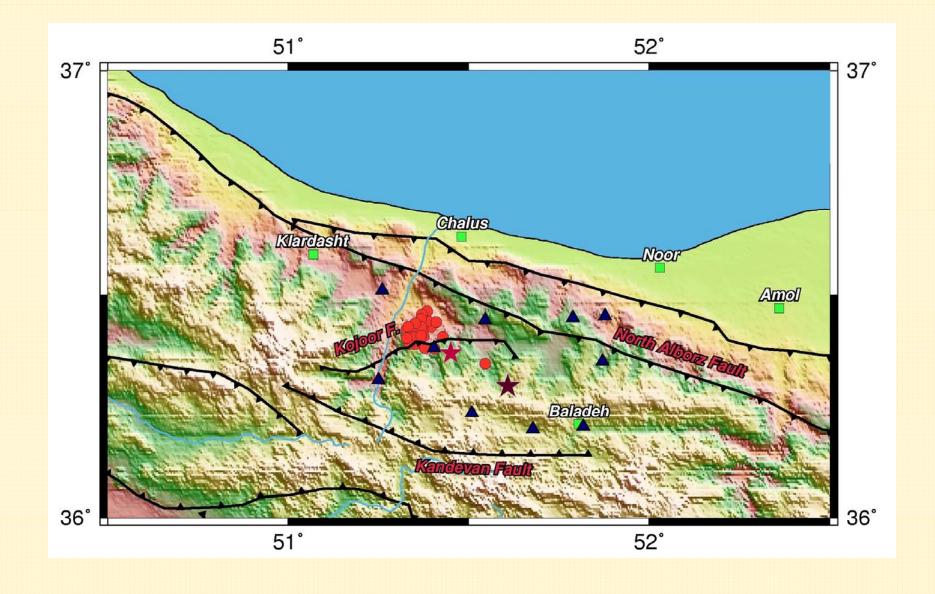
Aftershocks Distribution (INSN)



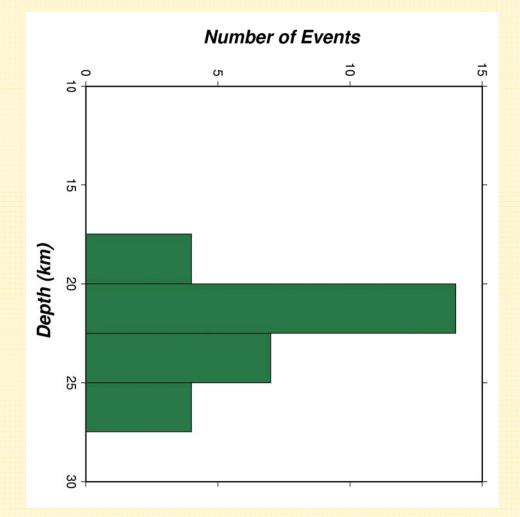
Temporary Local Seismic Network



Aftershocks recorded by Local Network



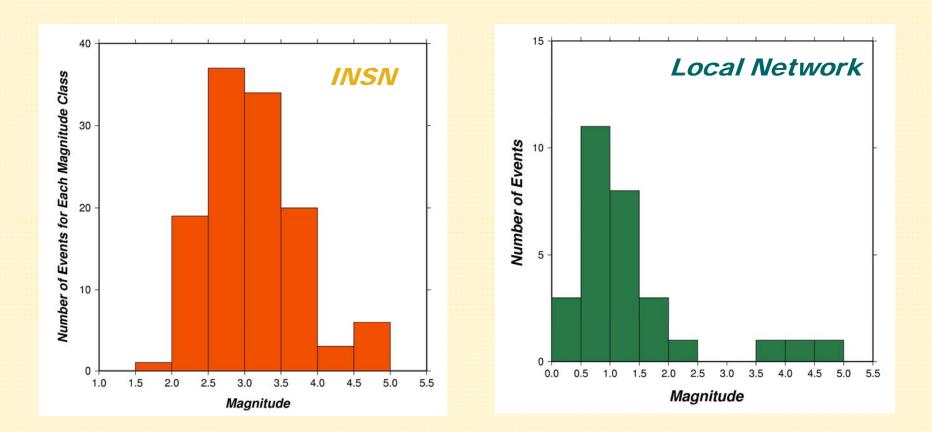
Focal Depths Distribution



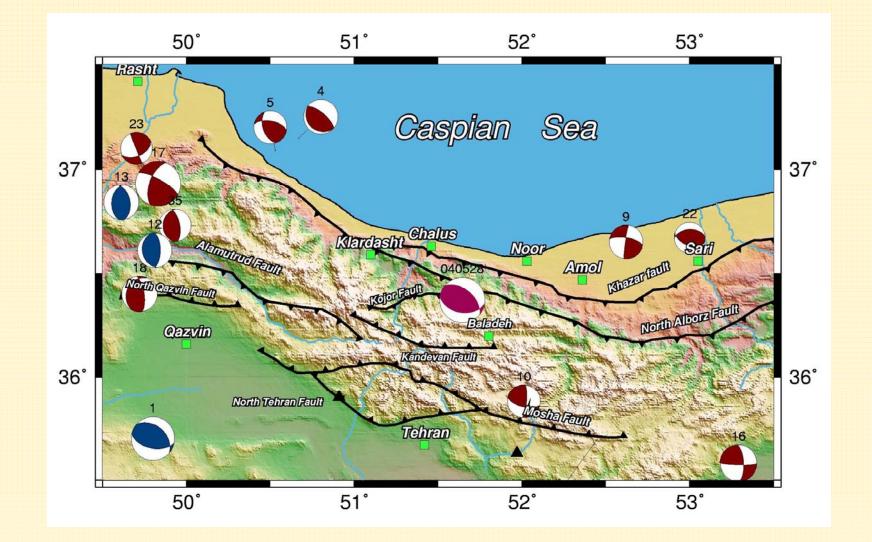
Unusual Focal Depths?!

17-27 (+/_ 5) km

Magnitude of Aftershocks



Focal Mechanisms



<u>Conclusion</u>

 ✓ Existence of two different clusters associated to the main shock (Ms=6.3), and one of the large aftreshock (MI=4.8)
✓ Reverse faulting with slightly left lateral strike slip Component.
✓ Probable dipping (~ 45) toward SW
✓ Unusual Focal depths (17-27 km)
✓ Most probably associated to the North Alborz fault

The Firoozabad-Kojoor Earthquake and its aftershocks represent the accomodation of Arabian-Eurasian Convergence in the Central Alborz (~8 mm/yr) as reverse faulting