

Yuval Levy









Outline

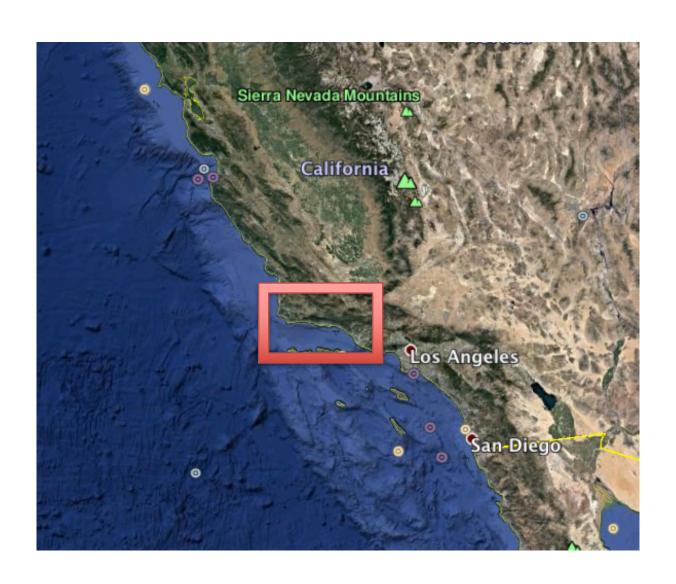
Motivation – evidence for large events

Map view of the on-shore geology and structures

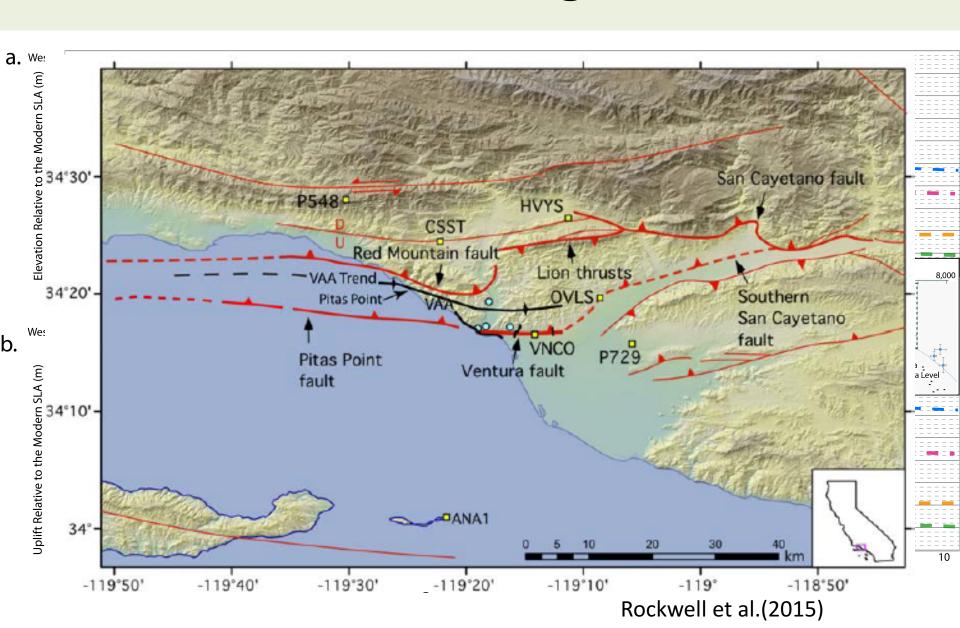
Cross-sections - subsurface structure, evolution explanation of observations

Summary

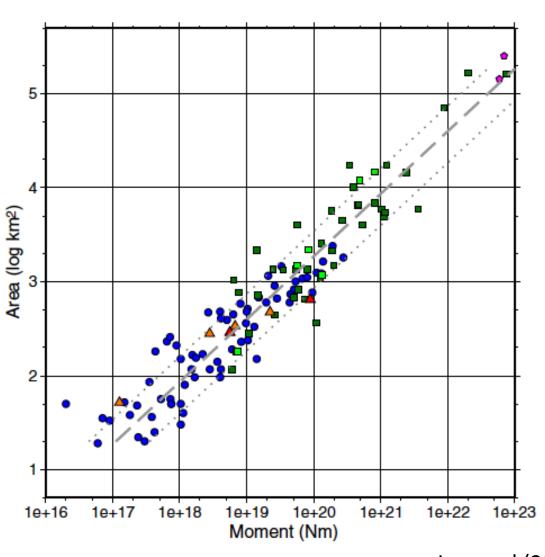
Location



Evidence for Large Events

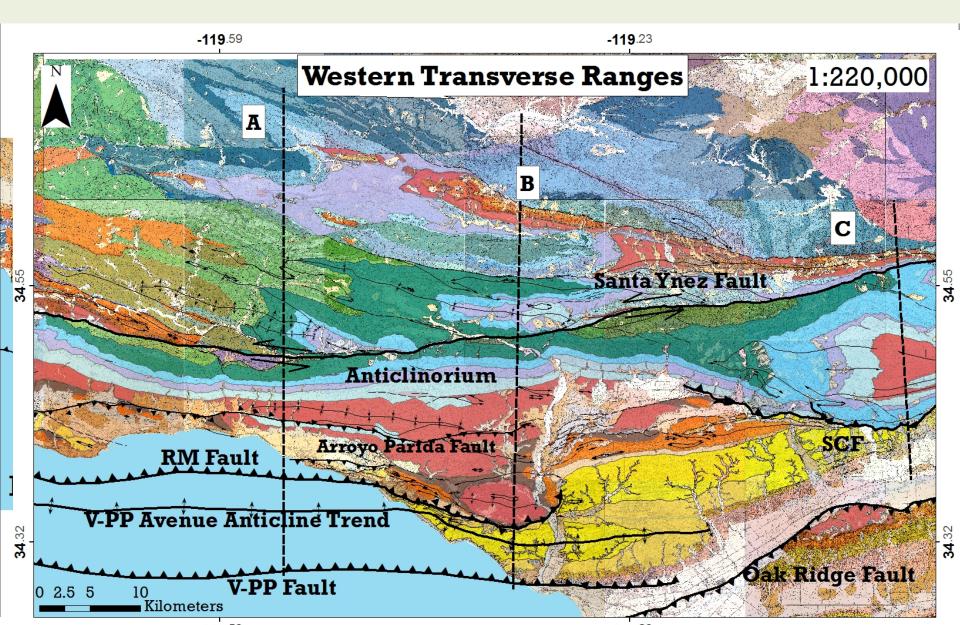


Scaling Relation

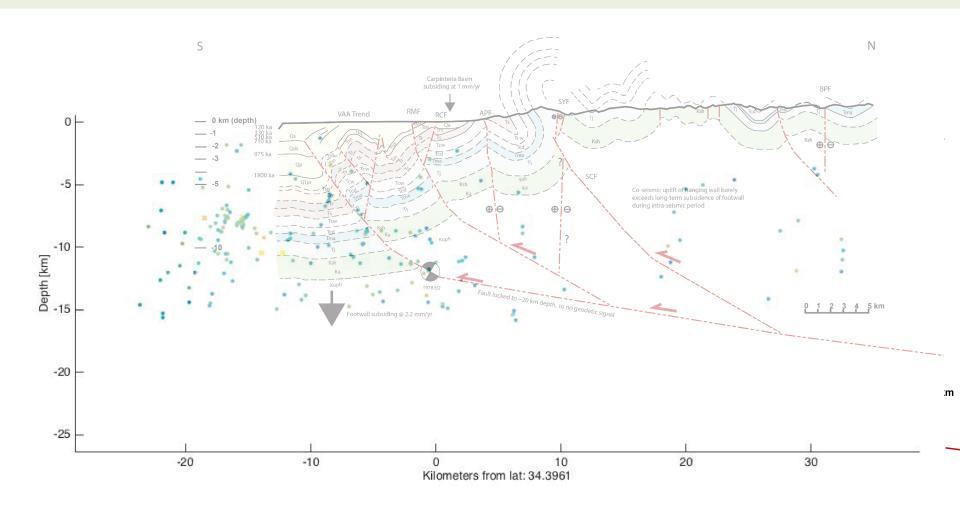


Leonard (2010)

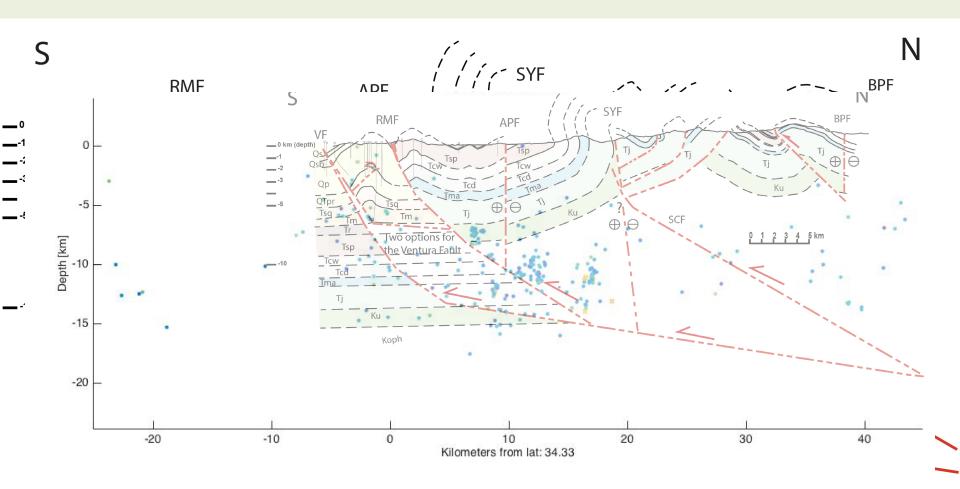
Geological (Dibblee's) Map



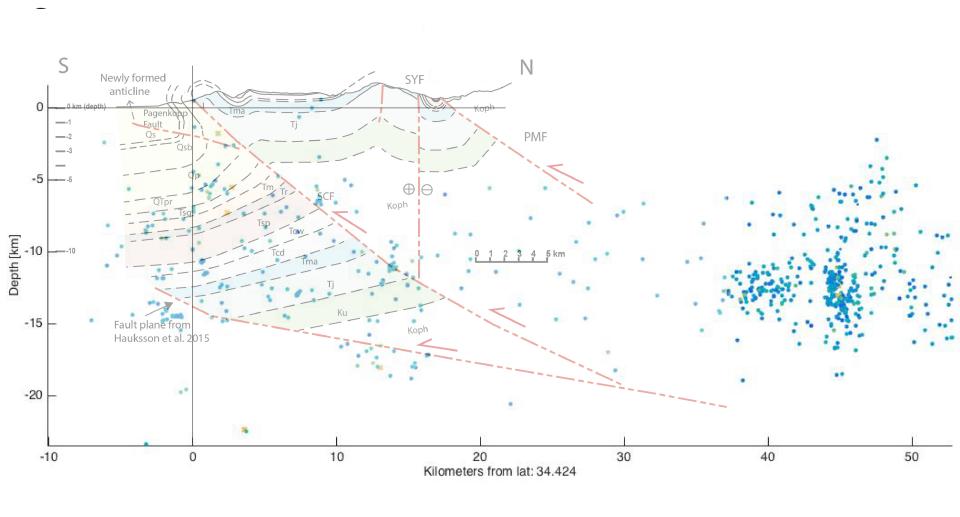
Cross Section A



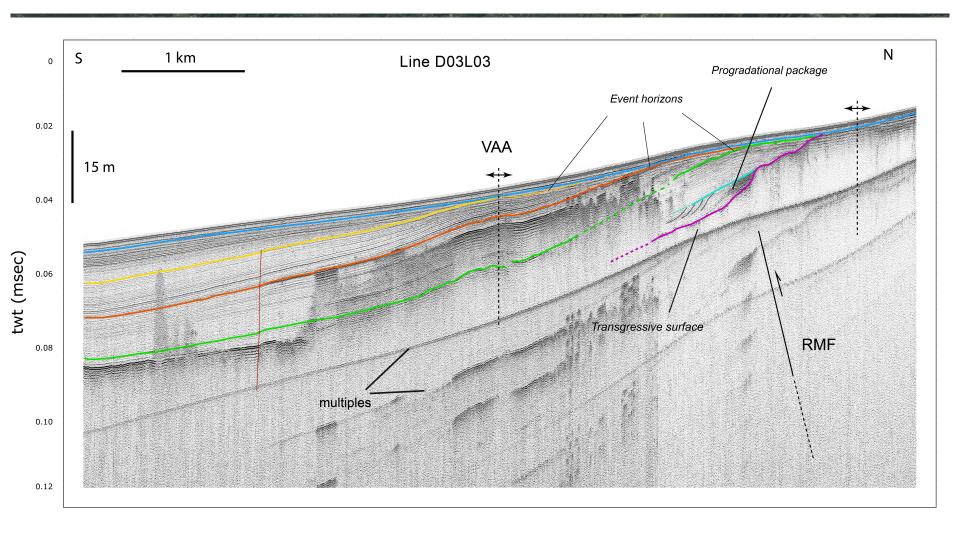
Cross Section B



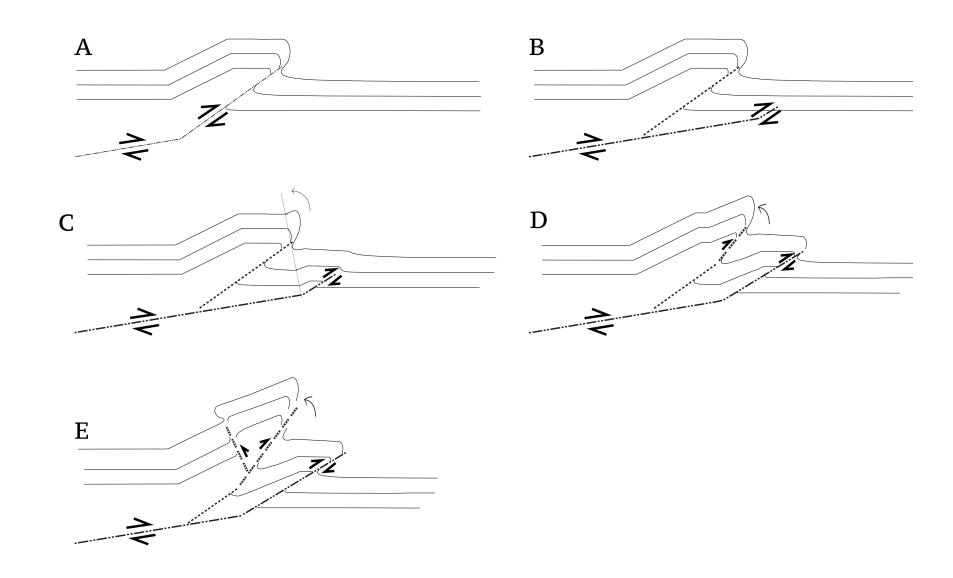
Cross Section C



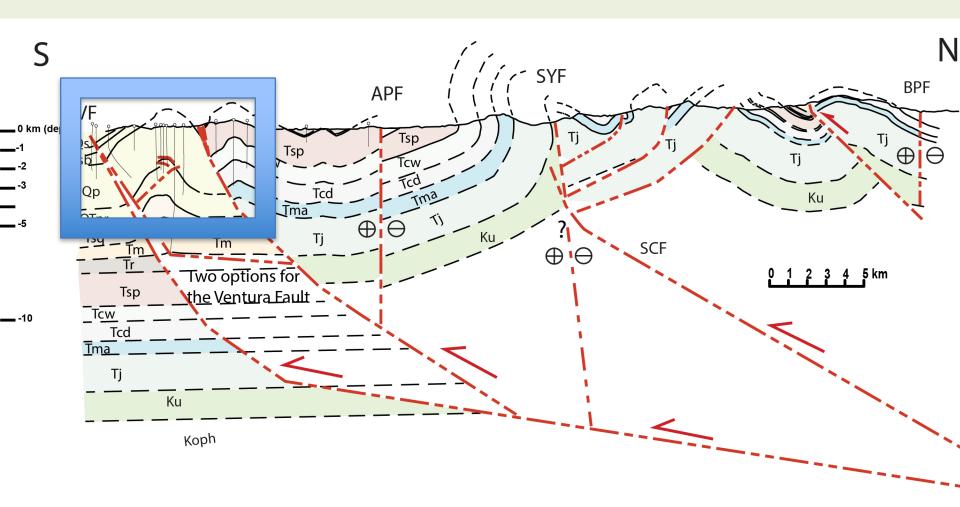
Red Mountain Fault



Model of Fault Rotation



Retro-Deformation of VAA



Summary

 We presented a model assuming that a general common form is maintained and it serially developed southward

The big faults and folds are north dipping

 The late quaternary activity on the Red Mountain Fault might relate to rotation of the fault

Summary

We hope to better constrain the depth of the detachment

We expect the loading to be at the north

 A 3D model will be interpolated once we complete more cross-sections

Thank You!