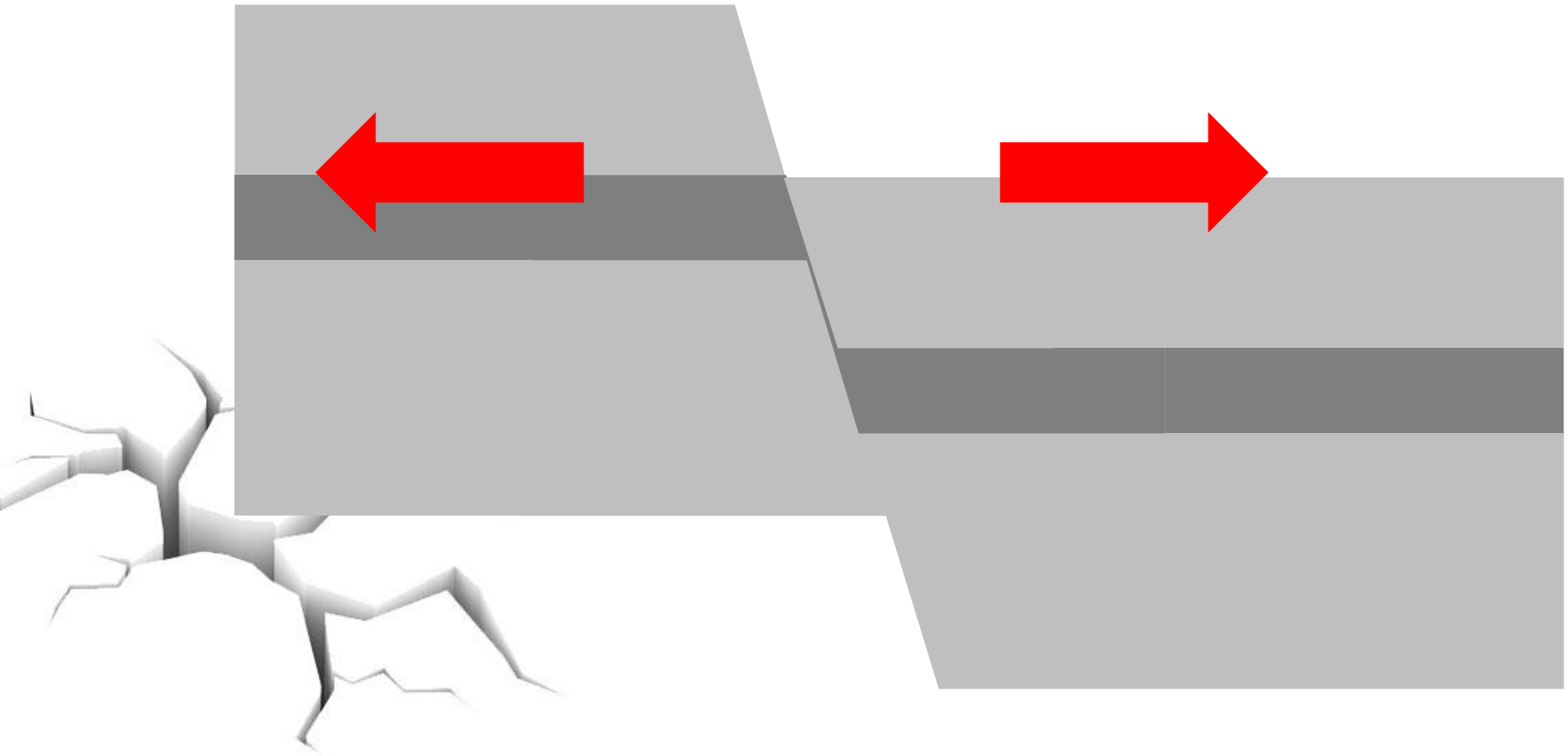
Folding and Faulting

Looking for Evidence of Past Earthquakes

2014 Earthquakes in NC Workshop
Tim Martin Greensboro Day School

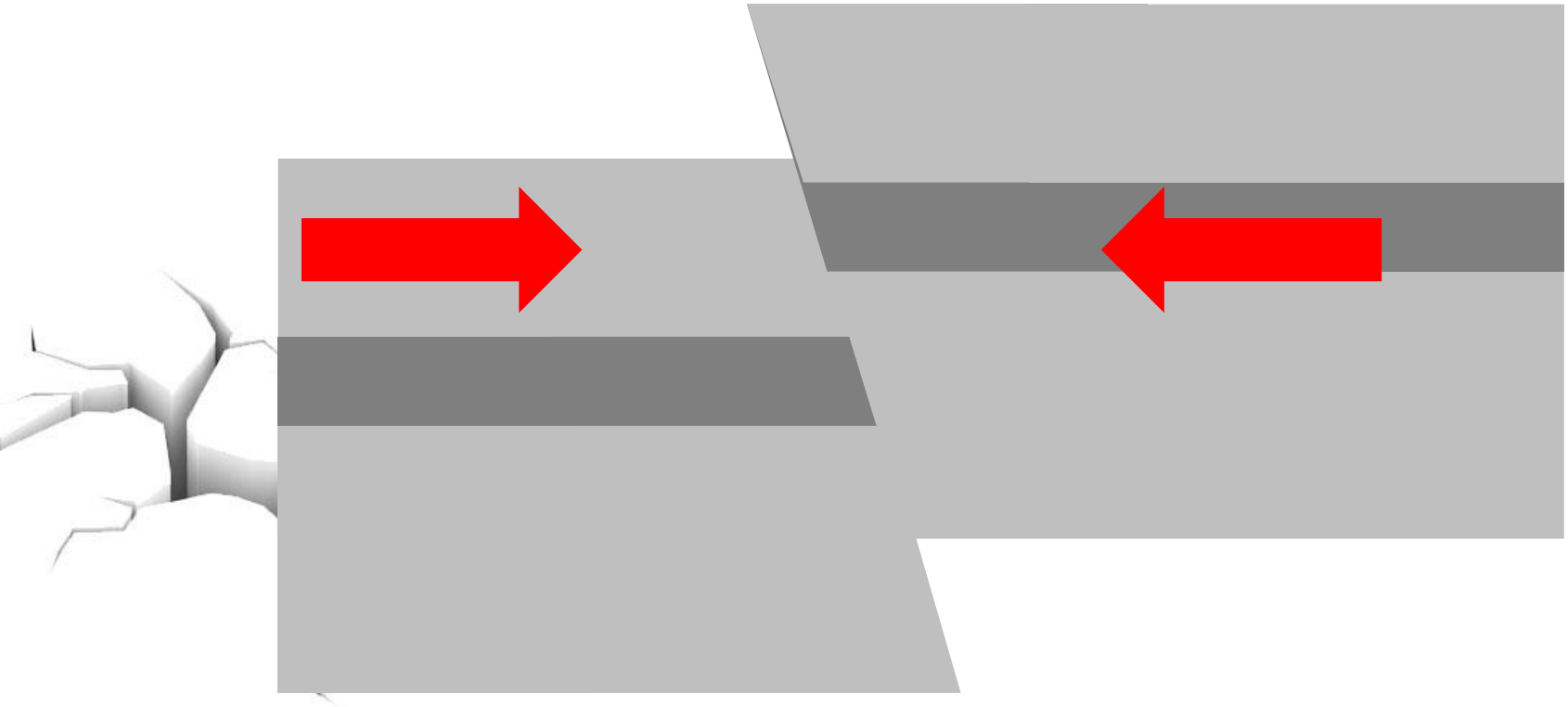
Normal Fault

Tension or divergent movement



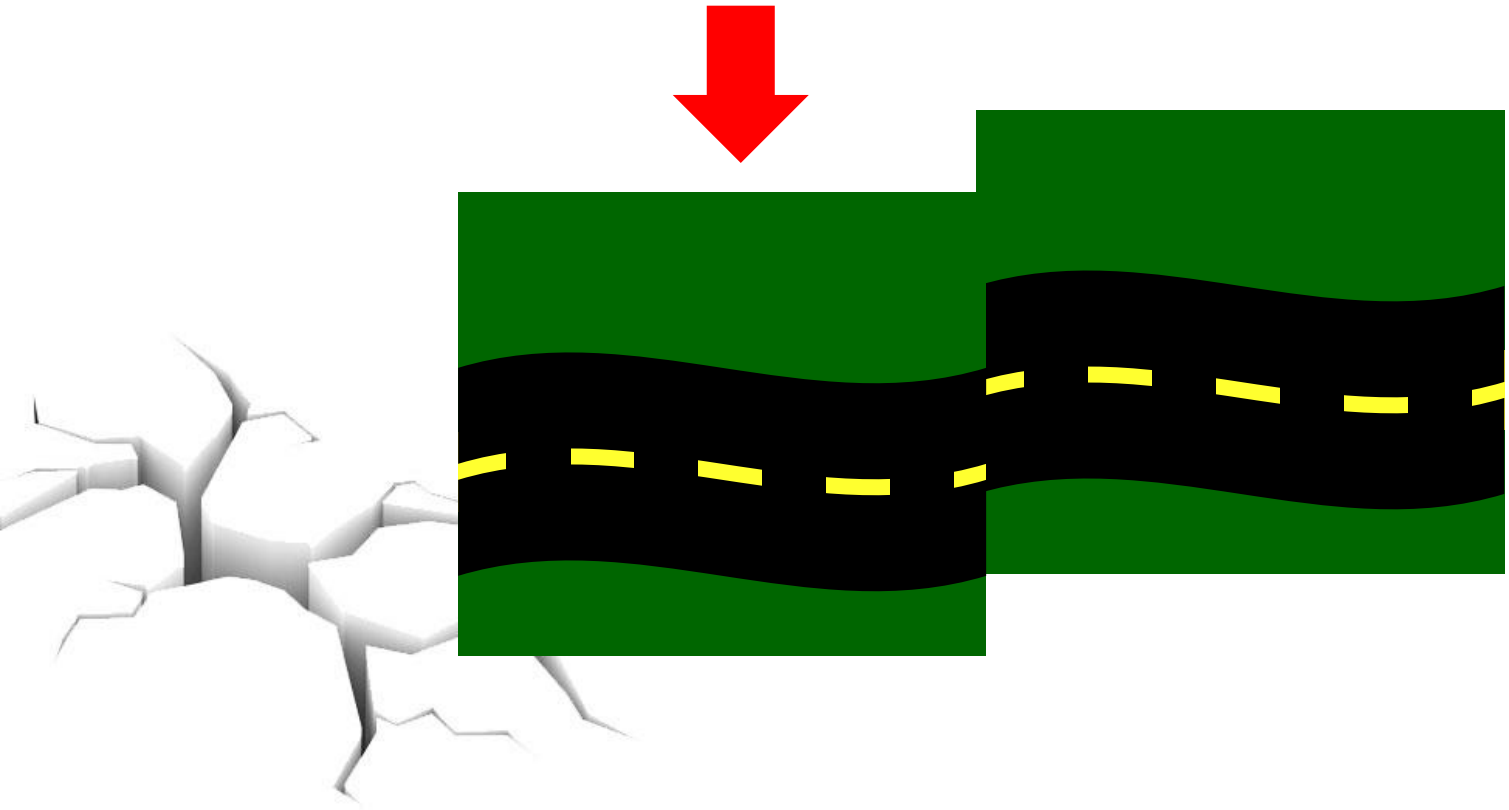
Thrust or Reverse Fault

Compression or convergent motion



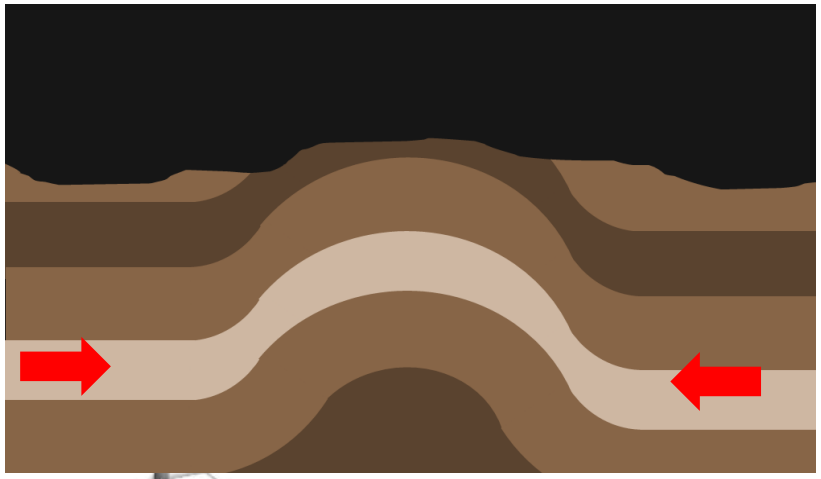
Transform or Strike Slip Fault

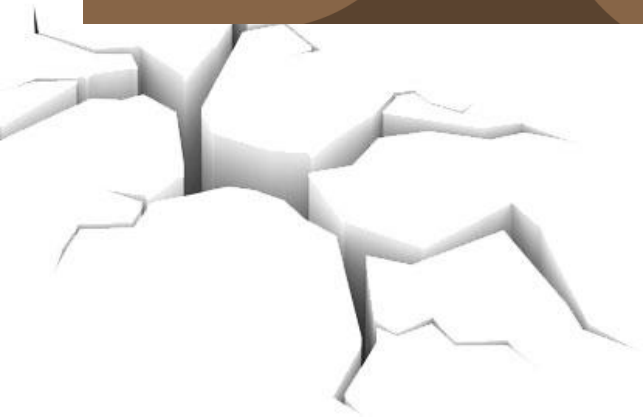
Transform or lateral movement



Anticline and Syncline

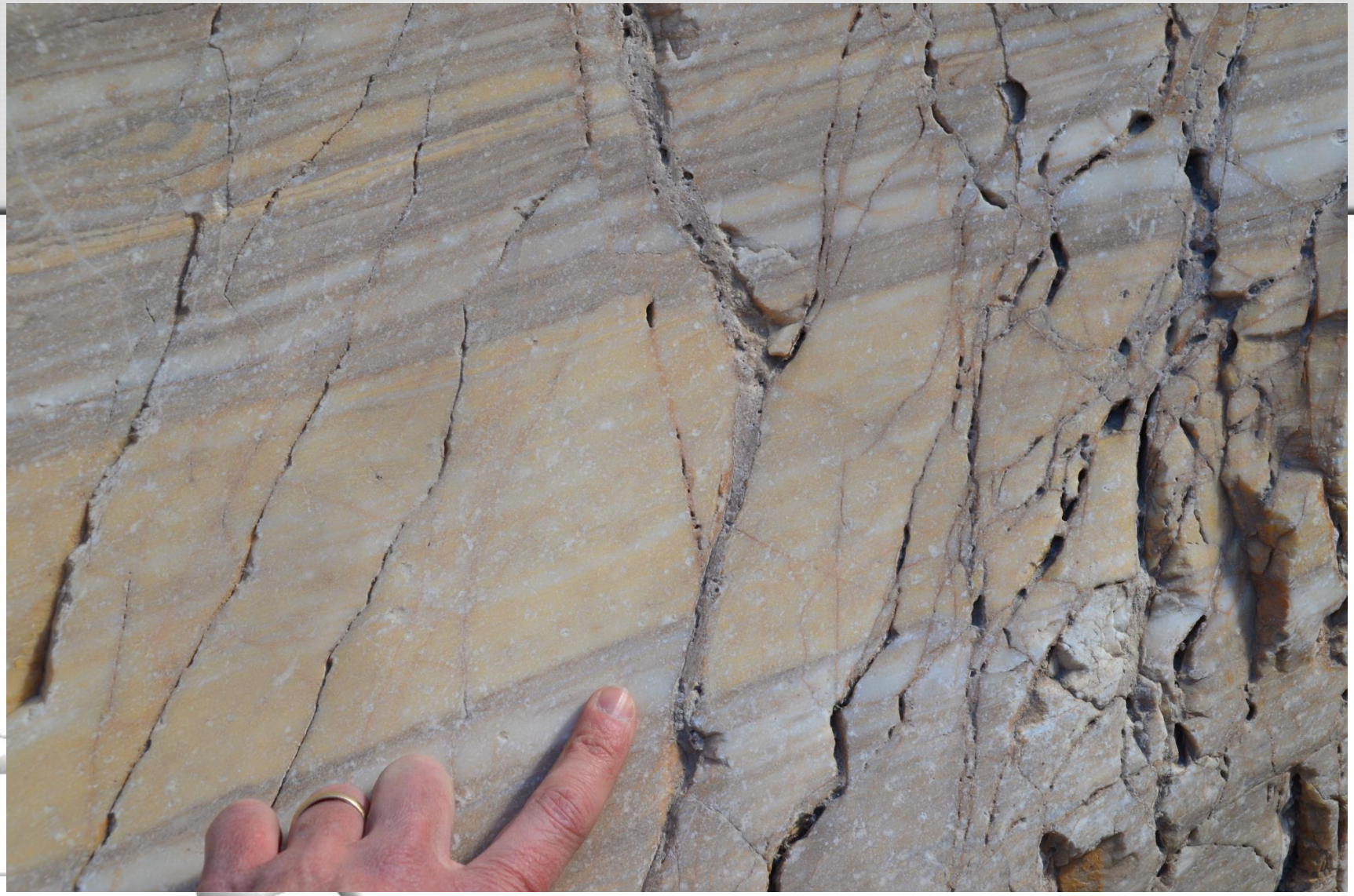
Compression or convergent motion





Strike Slip / Transform fault - USGS Photo of off-set orange grove in California

Normal Fault – Garnet Canyon Grand Teton National Park WY



Reverse Fault – Mosaic Canyon, Death Valley National Park CA

Anticline and Reverse Fault – Waucobi/Devils Gate, Big Pine CA

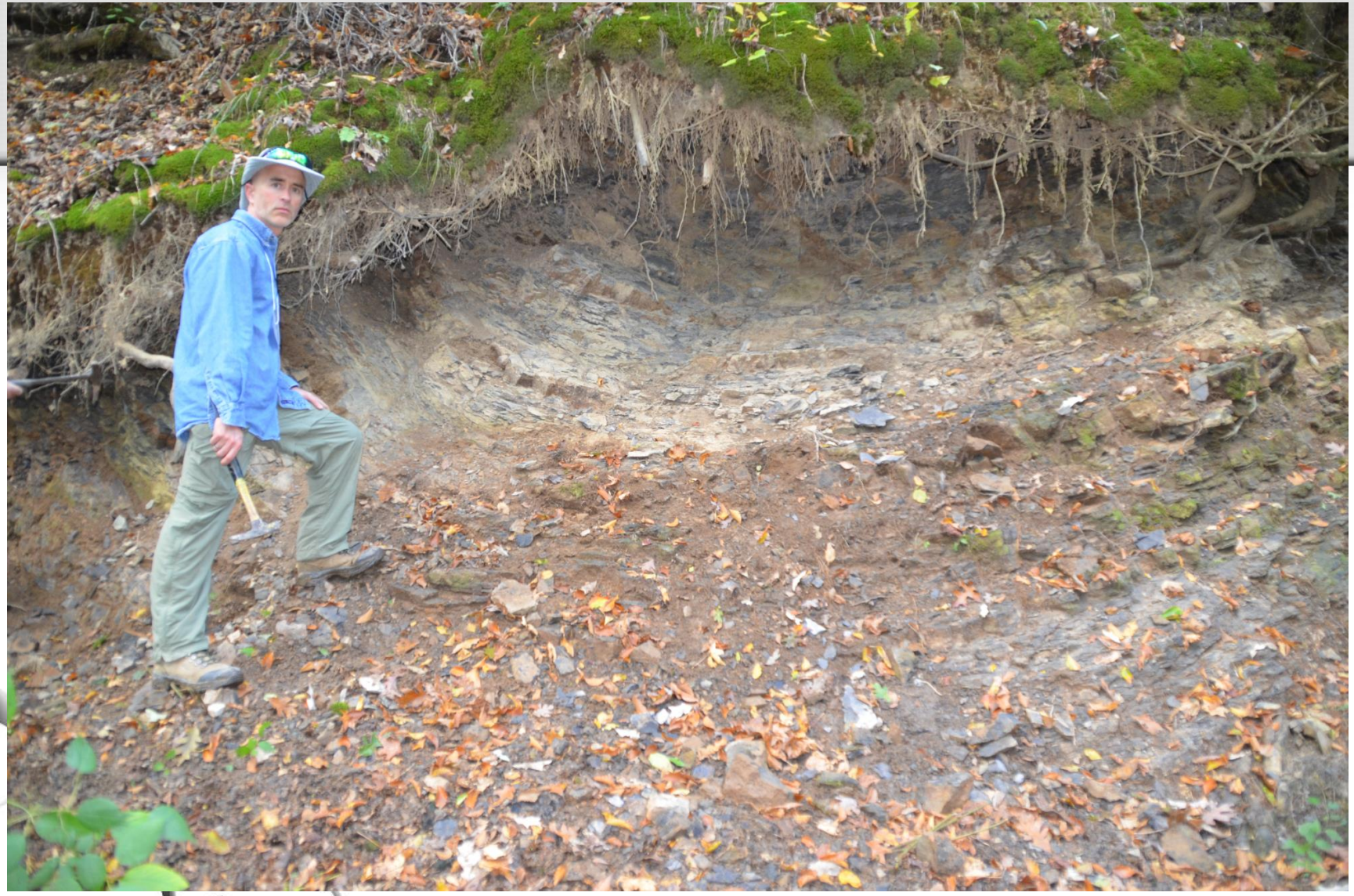
Normal Faults– Bishop Tuff, Bishop CA

Syncline and Thrust Fault – Gold Hill Shear zone, Gold Hill NC

Normal Fault – Hurricane Fault Cedar Breaks National Monument UT

Syncline – Arches National Park UT

Normal Fault – Mt. Carmel fault , Mt. Carmel UT



Syncline drag fold – Black Diamond Coal Mine Chatham Co NC

Syncline and Anticline – Arkansas River , Salida CO

Normal Fault – Moab Fault, Arches National Park UT

Syncline – Arches National Park UT

Normal Fault – Shoshone Fault , Shoshone CA

Strike Slip Fault – Hayward Fault, Freemont Ca

- This presentation was constructed for the 2014 Earthquakes in NC workshop and may be freely be used by teachers for educational purposes.

- Unless indicated otherwise, images in this presentation are taken by Tim Martin (one USGS image)