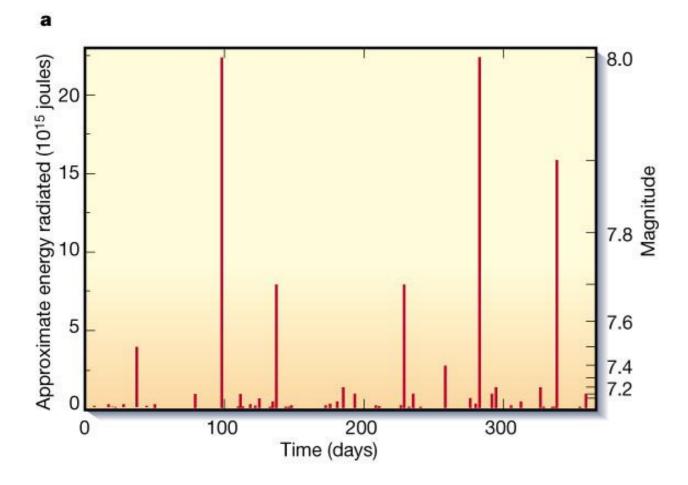
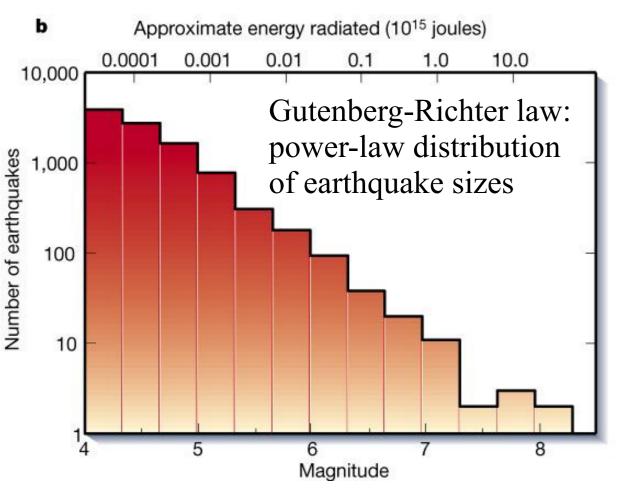
Earthquakes





earthquake magnitude is a logarithmic measure of how much energy is released: a magnitude 7 quake is 10 times more powerful than a magnitude 6 quake

"Crackling noise" refers to the behavior of systems that do not response with events of a characteristic size, but instead a broad range of sizes

see Sethna, Dahmen & Myers, Nature (2001)







Snap

Crackle

Pop

strong coupling: dominant failure mode associated with weakest link intermediate coupling: broad distribution of response sizes (avalanches) weak coupling:
each component
responds more or less
independently