



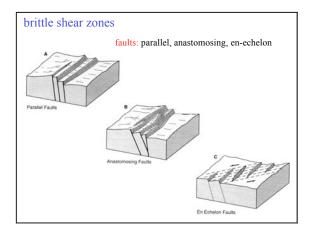
- form in shallow crust: 5-10 km depth
- reflect rapid strain rates (i.e. those during seismic events)
  contain closely spaced faults; brecciation; gouge
  - brittle shear zones are essentially fault zones

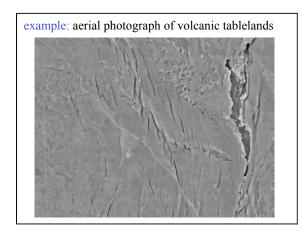
## ductile shear zones

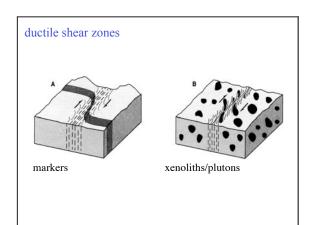
- form by shearing under ductile conditions (mid-lower crust)
- occur where temperature and pressures are high
- contain metamorphic rocks (foliations/metamorphic minerals)
   ...e.g. mylonites...
- have no discrete physical break (markers do not lose continuity
  - ...gum after you step on it)

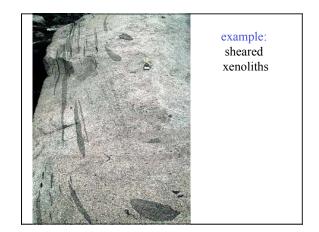
from: Davis and Reynolds, 1996

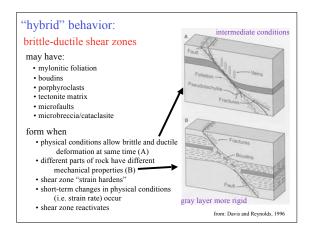
c shear zone



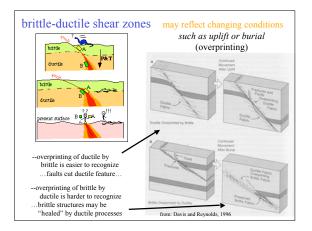












of controls on l	brittle vs.	ductile defo
	Brittle	Ductile
Temperature	Cooler	Hotter
Pressure	Lower	Higher
Strain Rate	Higher	Lower
Fluid Pressure	Lower	Higher

