

# Rheology and subsurface interpretation I

Data: positions of a stratum in the subsurface, as known from boreholes

Rheology: the study of the deformation or flow of matter

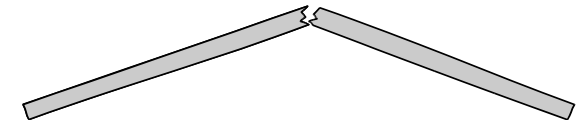
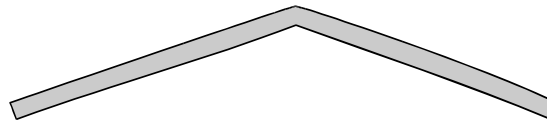
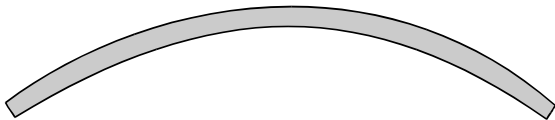


Possible interpretations of those data:

Gentle fold:

Sharp kink:

Breakage:

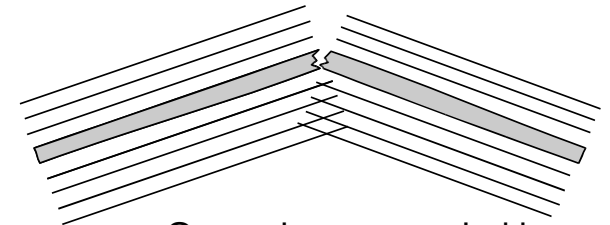
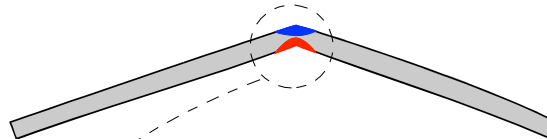
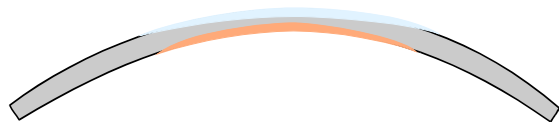


Rheological implications of those interpretations:

Broadly-distributed extension

Localized intense extension

Unoccupied subsurface volume



Broadly-distributed compression

Localized intense compression

One volume occupied by two sets of matter

Detailed view of the implications of the "kinking" interpretation:

