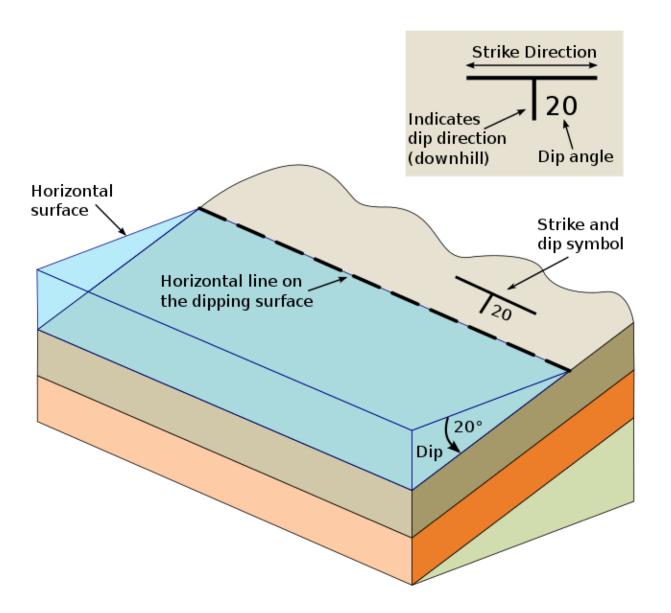
Fundamentals of Earth Sciences (ESO 213A)

Dibakar Ghosal Department of Earth Sciences

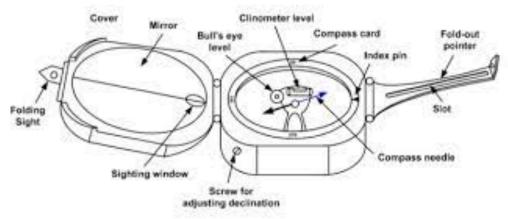
Attribute plotting in Stereonet plotting

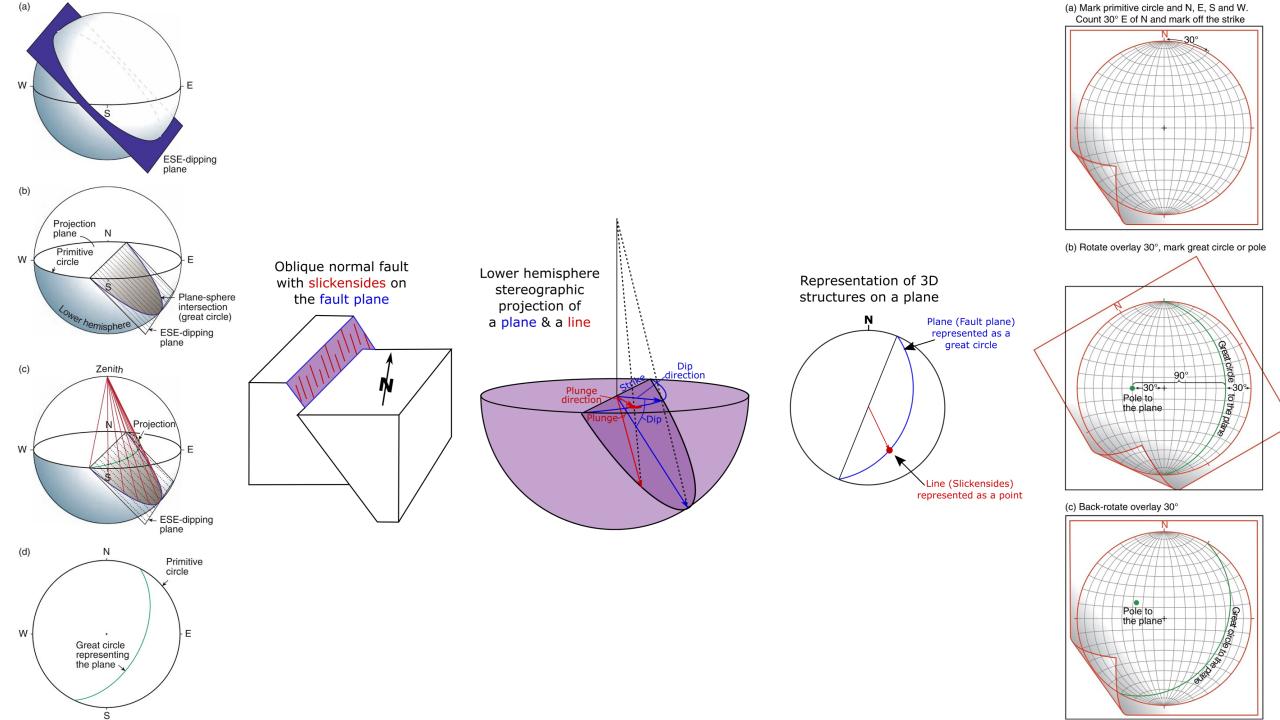
Previous Class: Crustal deformation



Brunton compass







Practice problems on stereonet

- 1. Plot each of the following beds on the tracing paper overlay.
- a) 260°/12°; b) 180°/90°
- 2. Plot the following lineations on tracing paper overlays.
- a) 43°, 217°; b) 86°, 270°
- 3. A fault plane has slip lineations oriented in the true-dip direction of the fault plane. The orientation of the lineation is measured as 49 $^{\circ}$ \rightarrow 041 $^{\circ}$. Plot and calculate the fault plane orientation, i.e., strike and dip, on a tracing paper.
- 4. Two limbs of a synform have the following attitudes $042\degree/65\degree$ SE and $105\degree/40\degree$ N. Determine the trend and plunge of the fold axis.
- 5. A planar fault contact contains lineation that trend N60 °W. The fault plane contact has an attitude of 010°/80°. Find the following:
- (i) What is the plunge of the lineation?
- (ii) What is the rake/pitch of the lineation on the fault plane?