# 構造地質学Ⅱ-2



褶曲 Folds

http://earth.leeds.ac.uk/folds

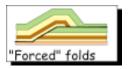
'07/06/07 Gaku KIMURA

# 褶曲のメカニクスによる分類

Shear folds (剪断褶曲)

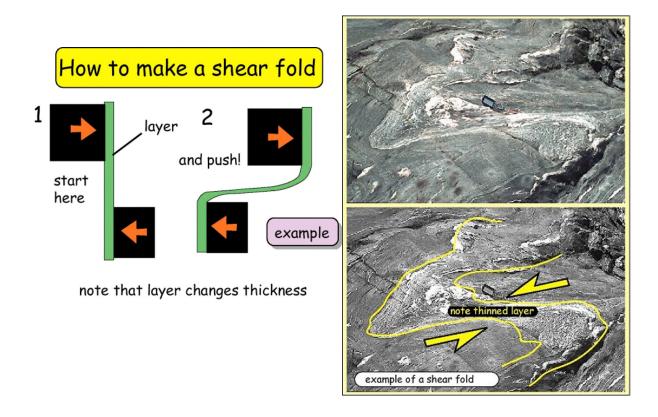


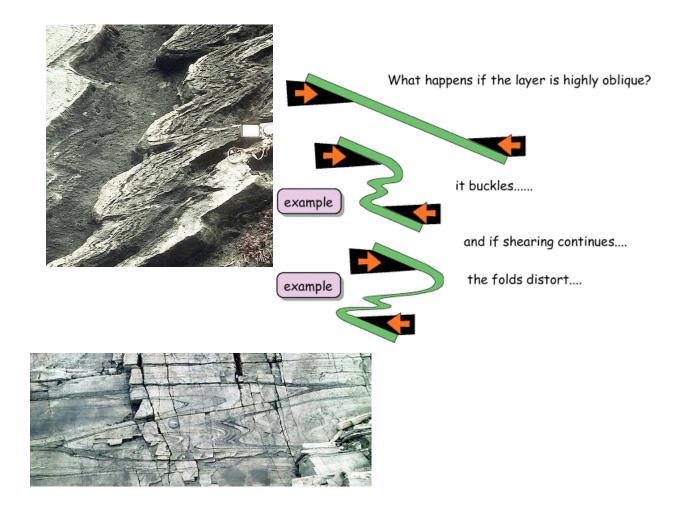
Forced folds(強制褶曲)

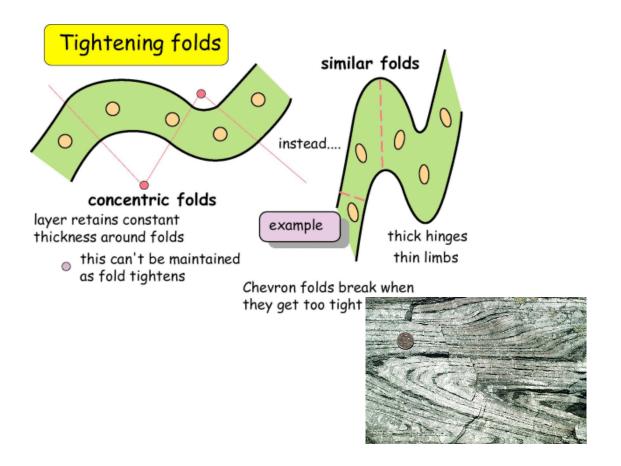


Buckled folds(座屈褶曲)

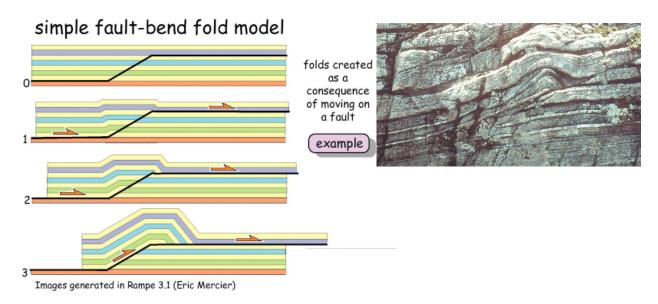




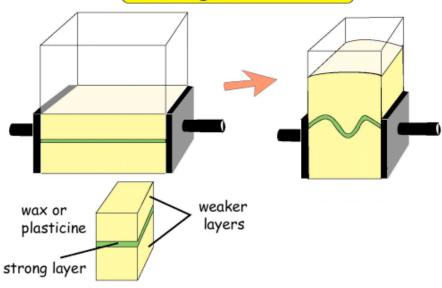


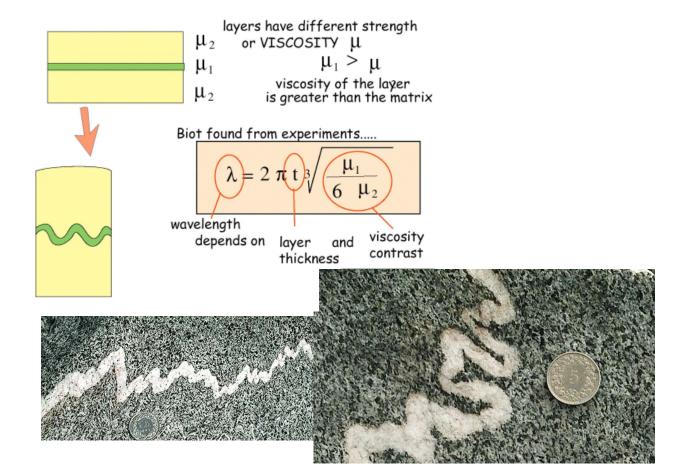


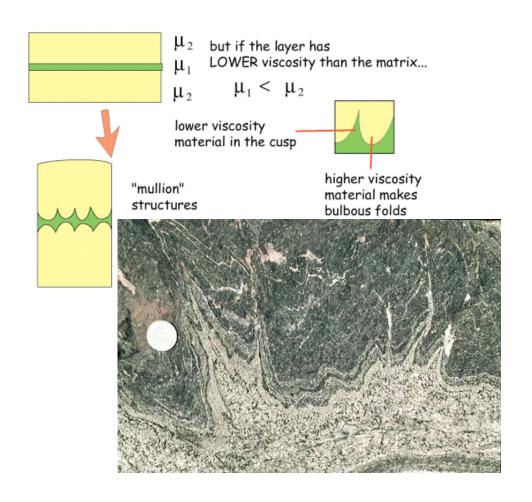
#### Forced folds

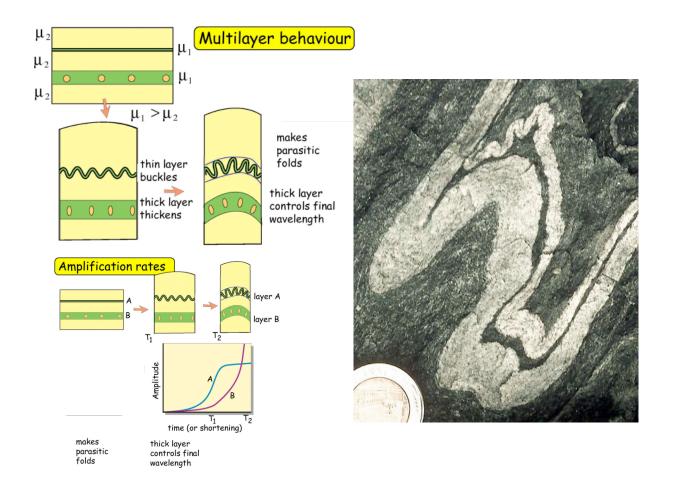


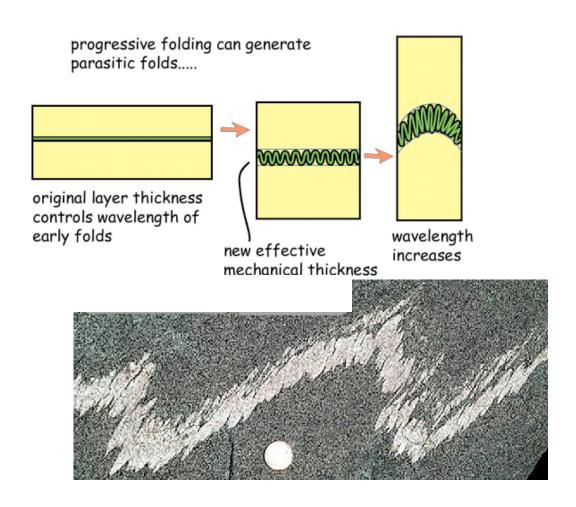
# Making buckle folds

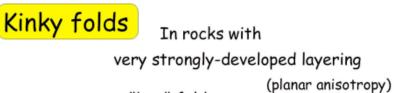


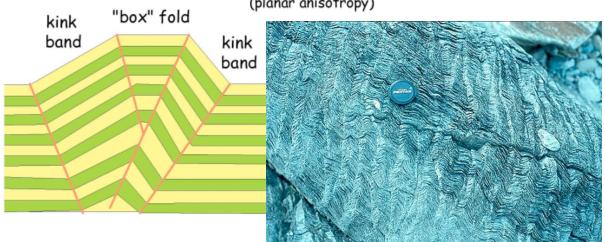








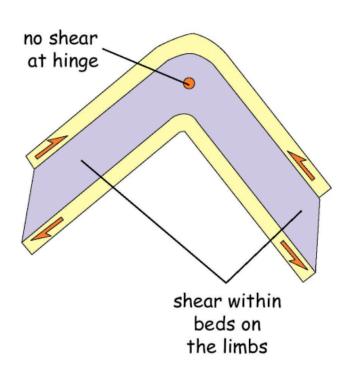




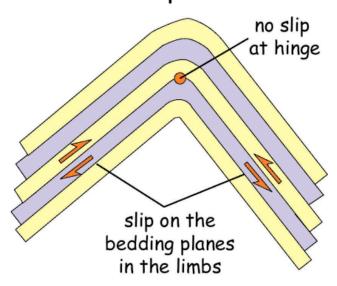
### Fold mechanism

# Flexural flow Flexural slip Tangential Longitudinal strain

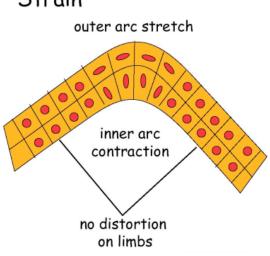
#### Flexural flow



## Flexural slip

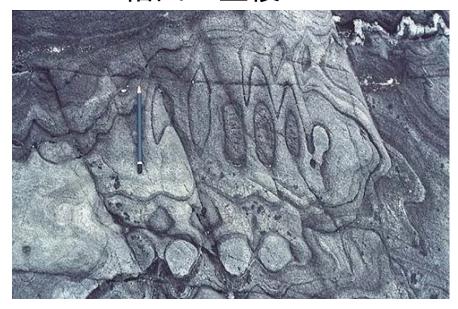


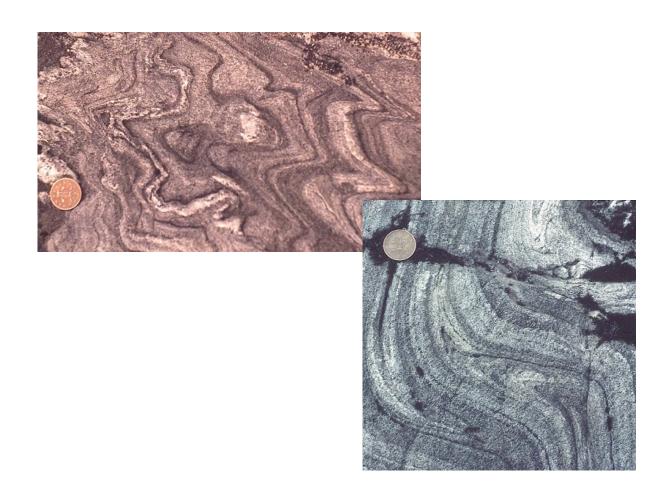
#### Tangential Longitudinal Strain





褶曲の重複



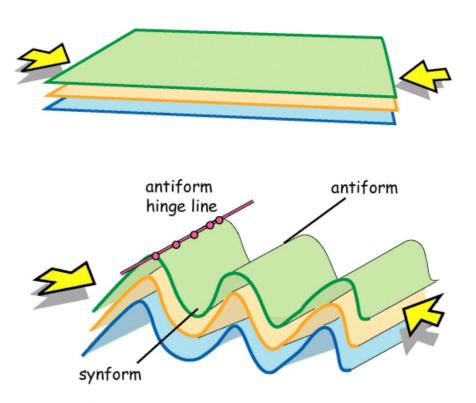




宿題:この褶曲の折り畳まれ方を記せ。

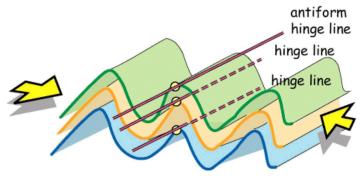
ヒント:2回重複

# 褶曲の記載



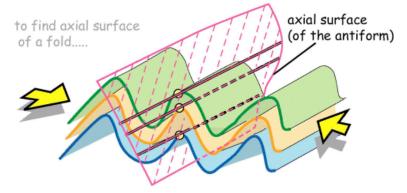
antiform: upward closing fold synform: downward closing fold

hinge line: joins points of maximum curvature along same layer

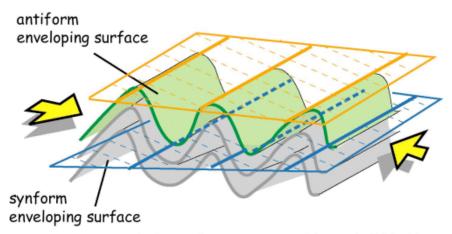


to find axial surface of a fold.....

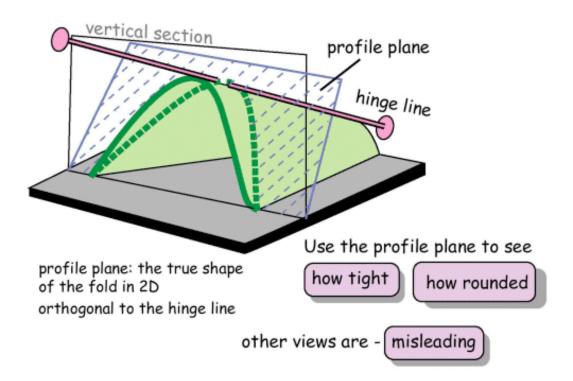
#### find the hinge lines for different layers

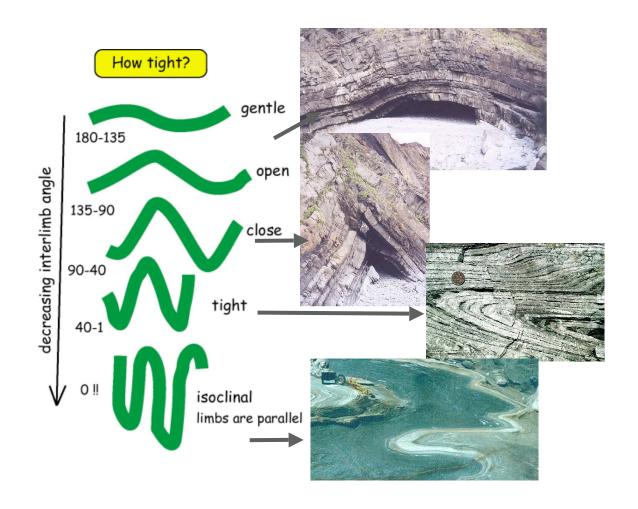


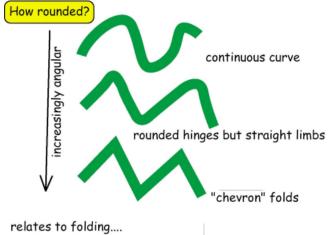
construct the (imaginary) surface that contains all the hinge line for that fold.



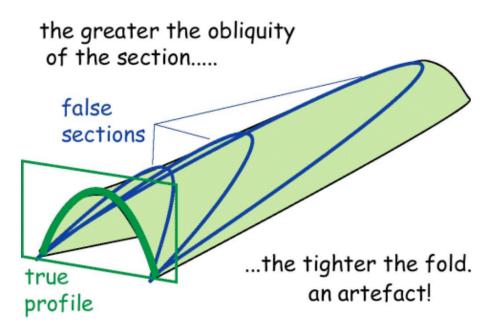
enveloping surface: constructed for an individual layer antiform enveloping surface - connect the crests synform enveloping surface - connect the troughs





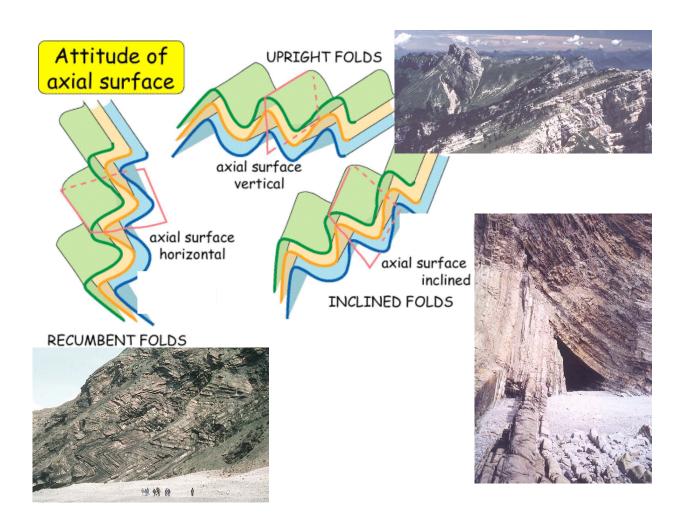


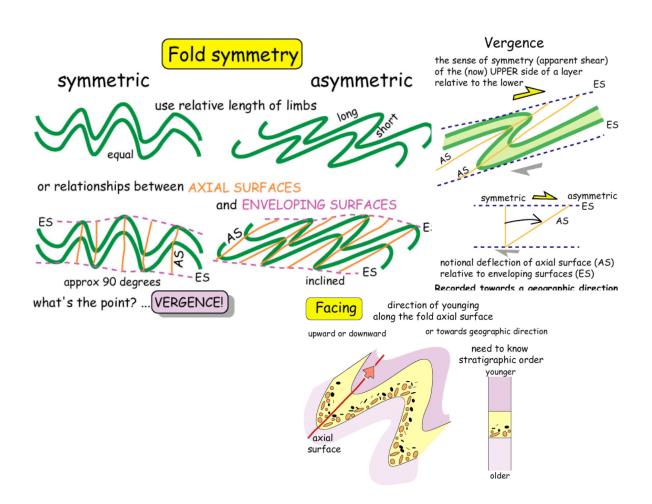


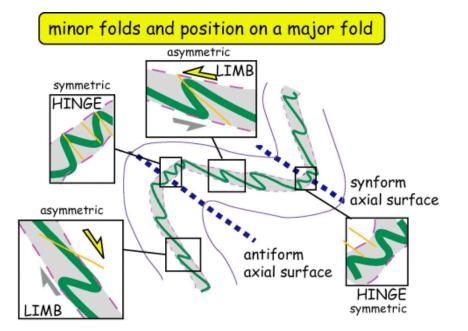


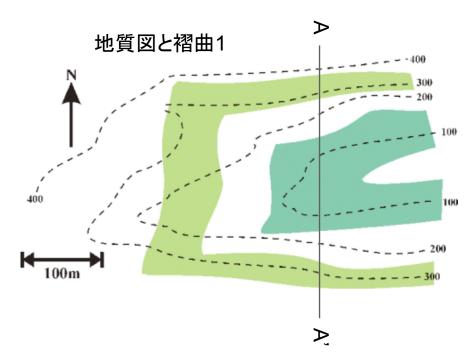
# 褶曲軸面姿勢による分類

Upright fold Inclined fold Recumbent fold

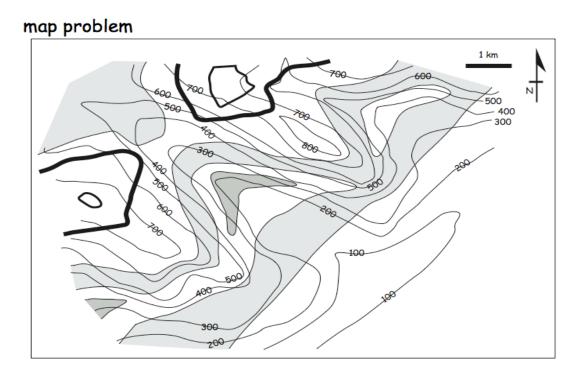








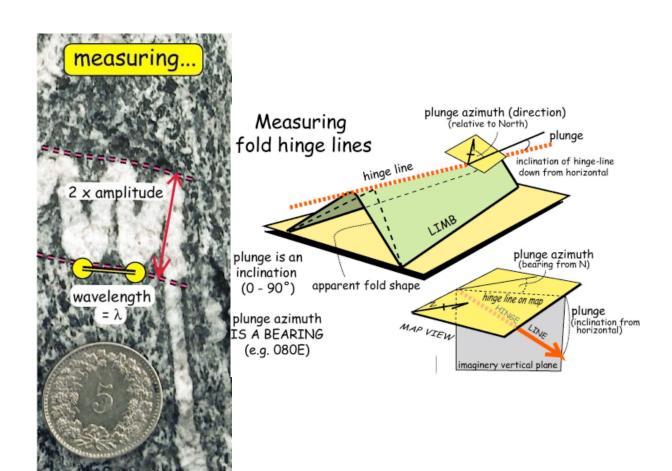
宿題:断面図を書きなさい

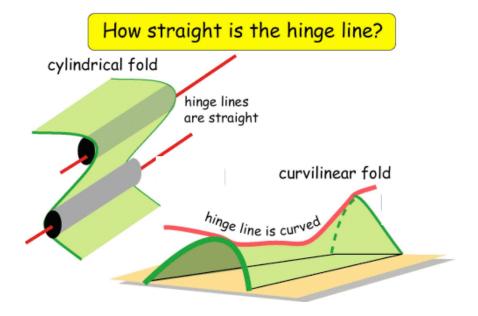


宿題:任意に断面図を書きなさい(最低3本)

# 褶曲を計る

# 波長と振幅





# 壁開と褶曲

