## Foliations and Folds in Shear Zones

#### Shear zones: tabular zones of high strain. They are extension of faults to deep levels of the crust.

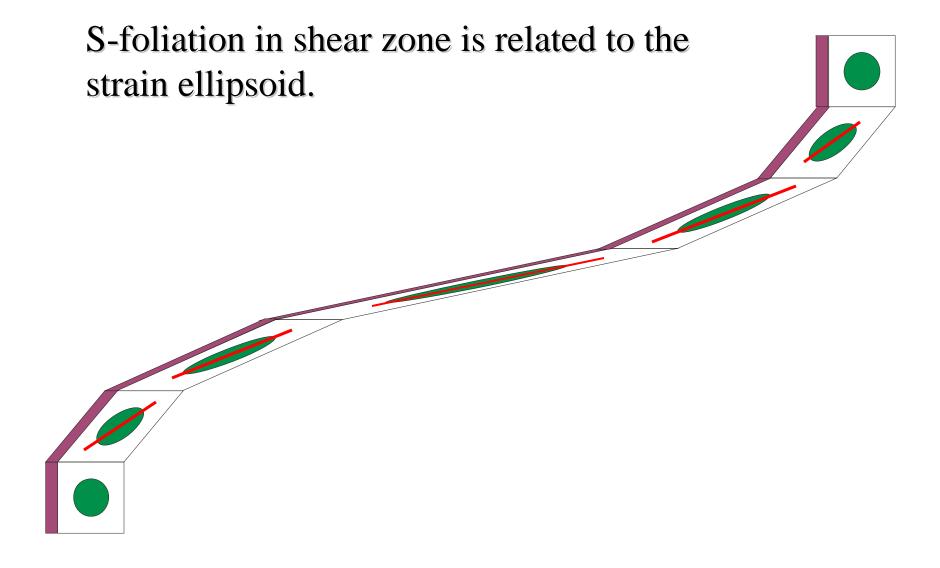
#### **Foliations in shear zones:**

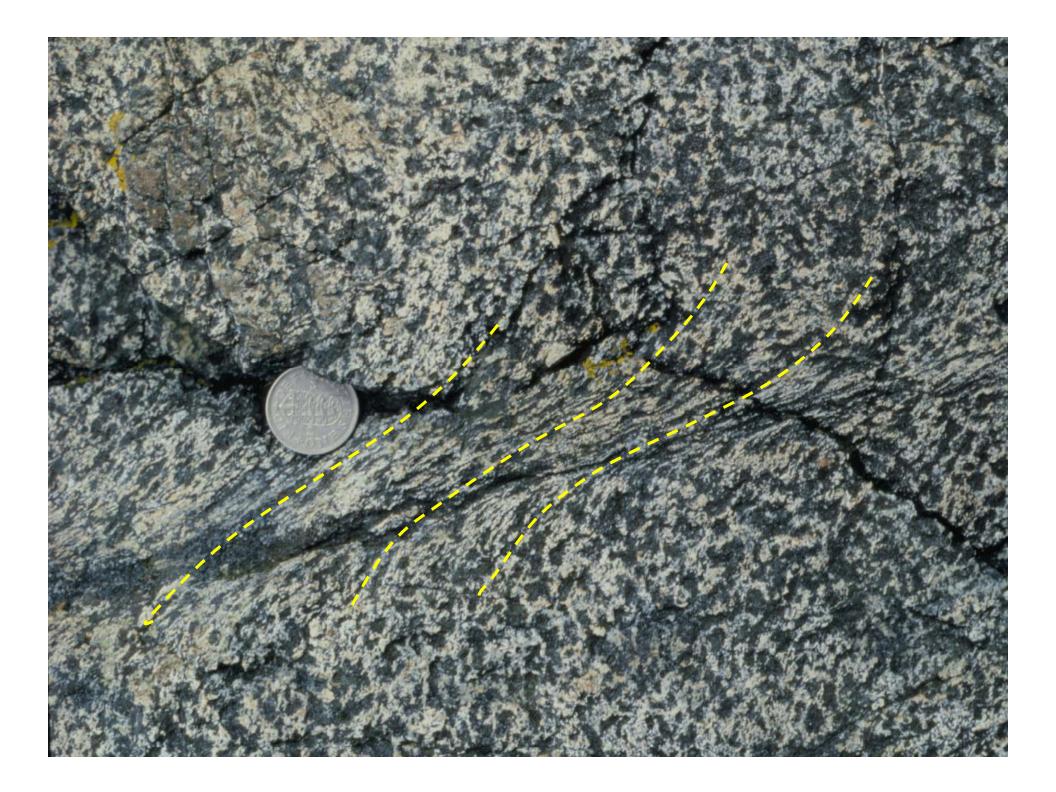
S- foliation, C- foliation,

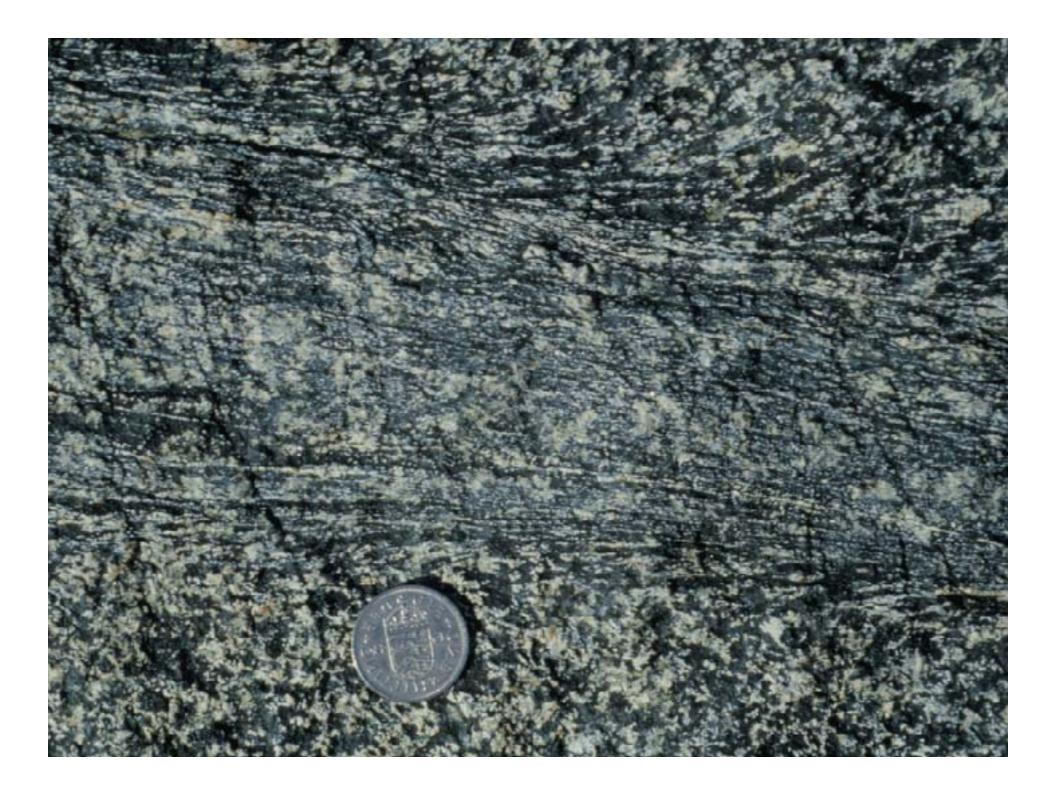
#### Folds

occur on all scales, usually highly non-cylindrical Sheath folds









# Foliations in Shear Zones

#### **S-Foliation**:

Shape fabric

Orientation close to the XY plane of the strain ellipsoid

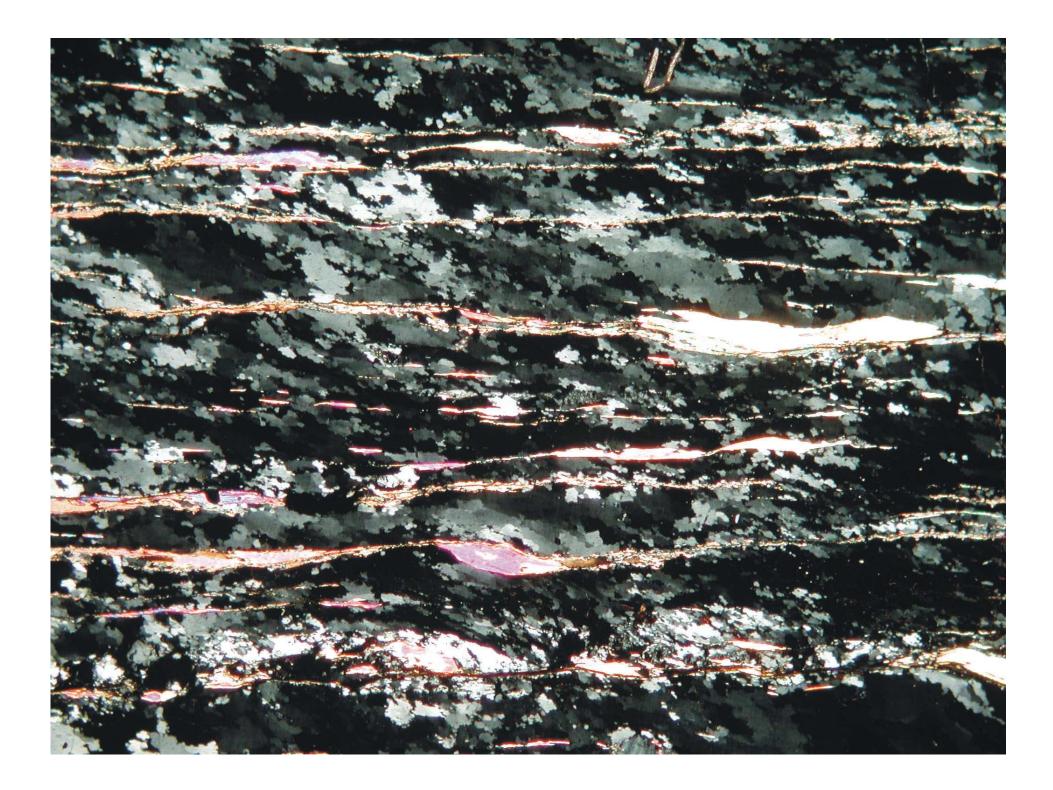
<u>Oblique to the shear zone boundary</u> and <u>rotating towards parallelism</u> to the shear zone boundary as strain increases



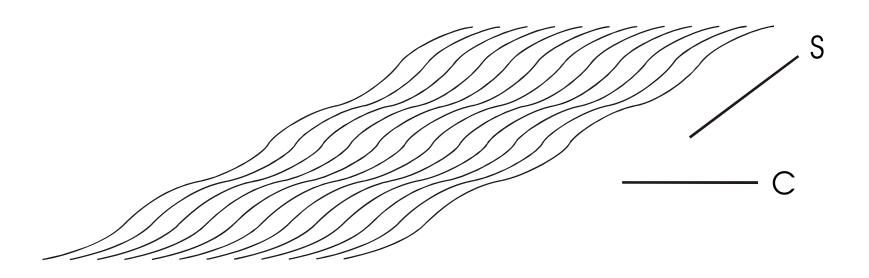
## Foliations in Shear Zones

#### **C-Foliation**:

Commonly parallel to the shear zone boundary Defined by: compositional layering transposition foliation micro-shear zones mica fish



#### S-C mylonite



### Sheath folds

• Highly non-cylindrical folds

