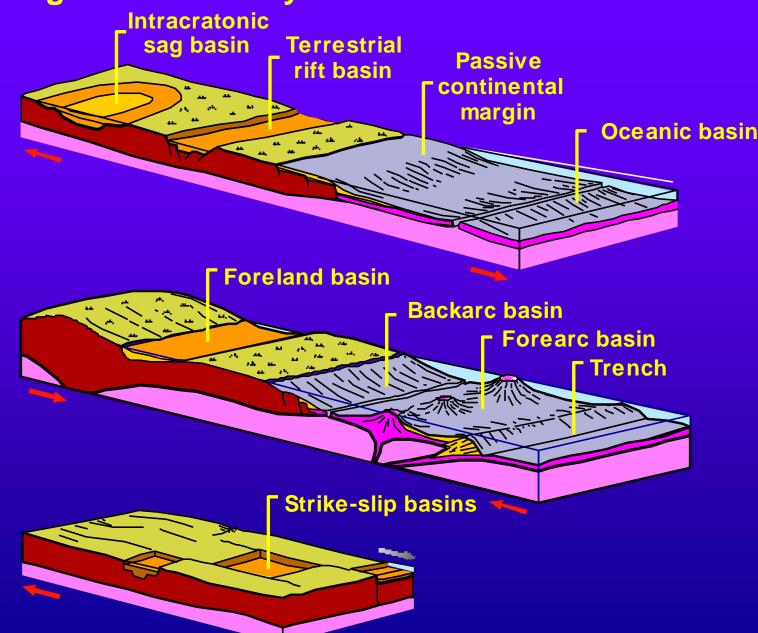
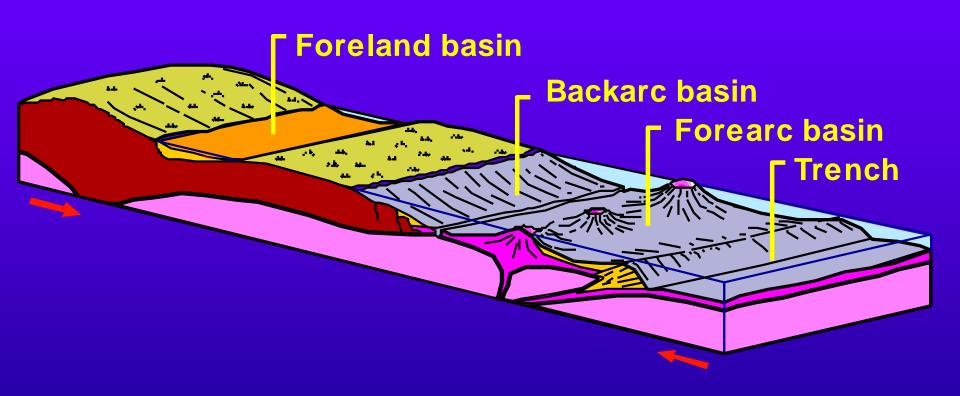
Arc-trench systems

TRENCHES

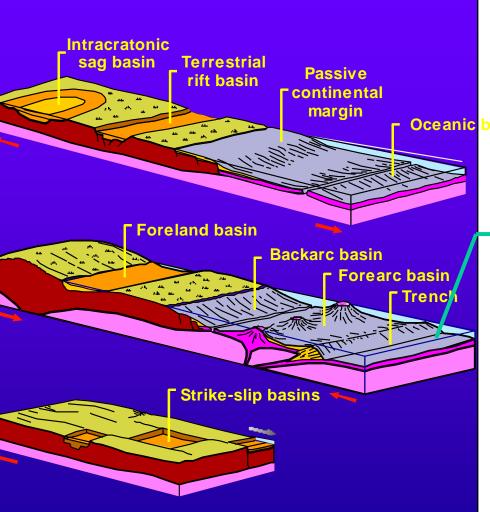
Tectonic setting of sedimentary basins

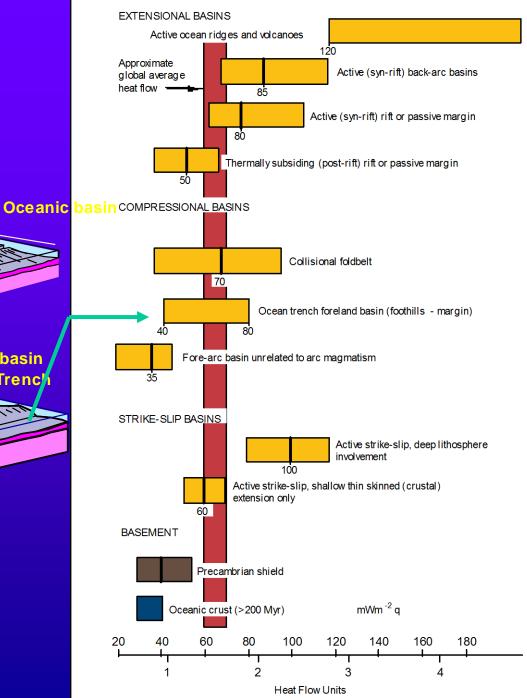


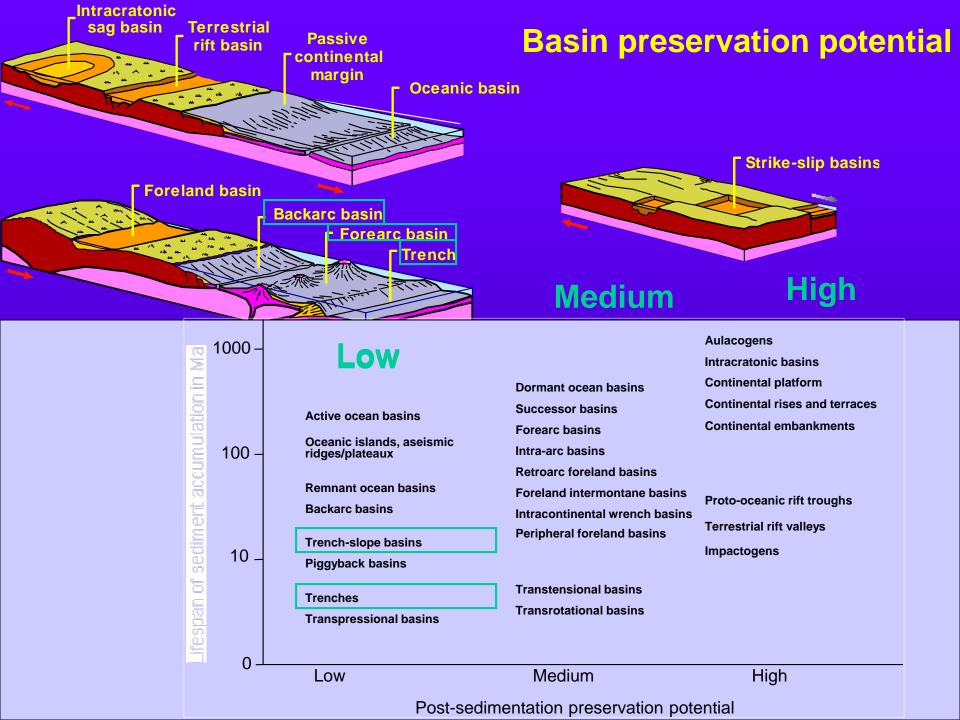
Tectonic setting of sedimentary basins

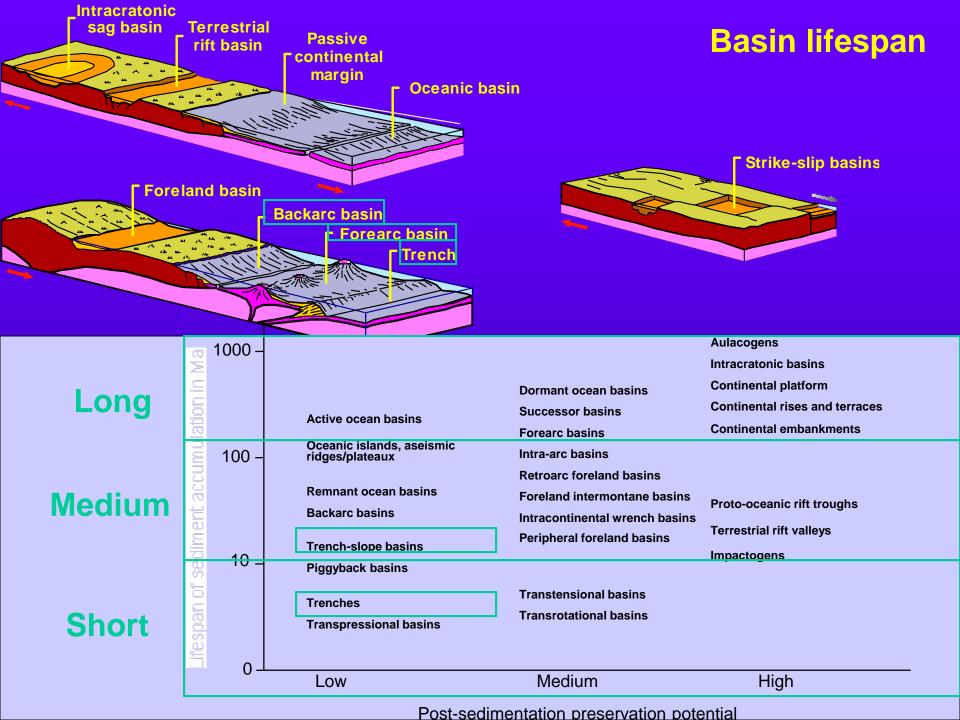


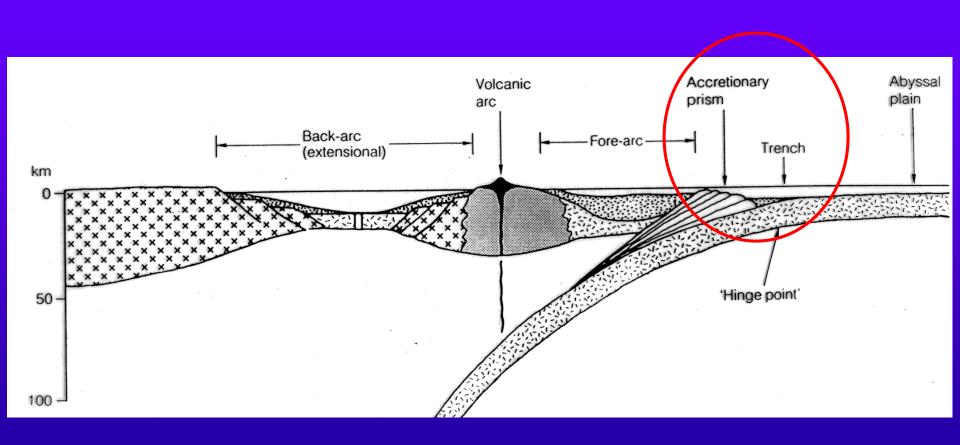
Basin Heat flow

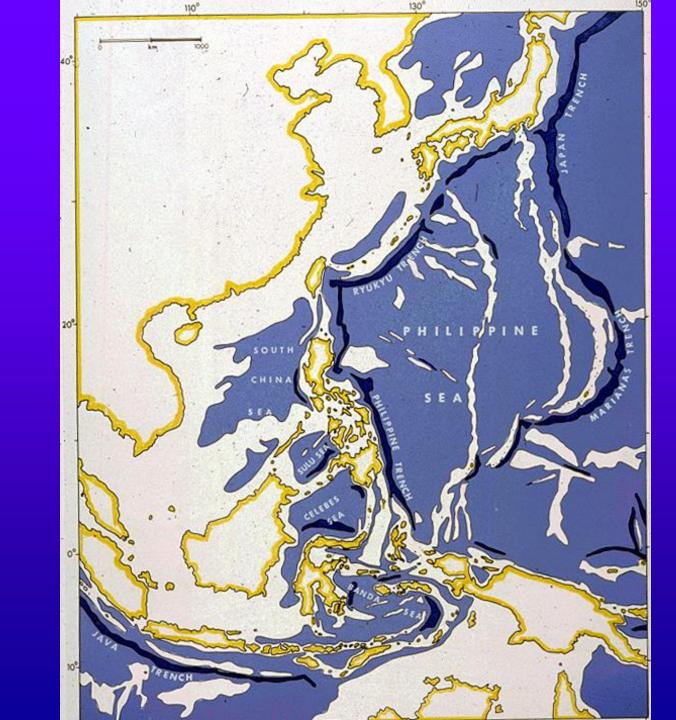


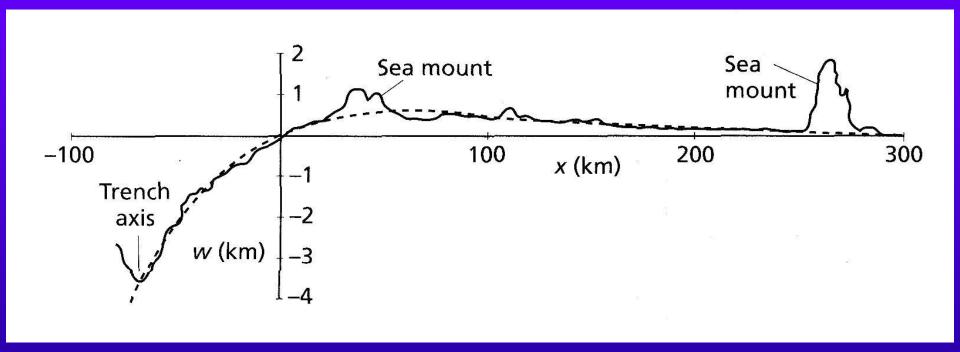


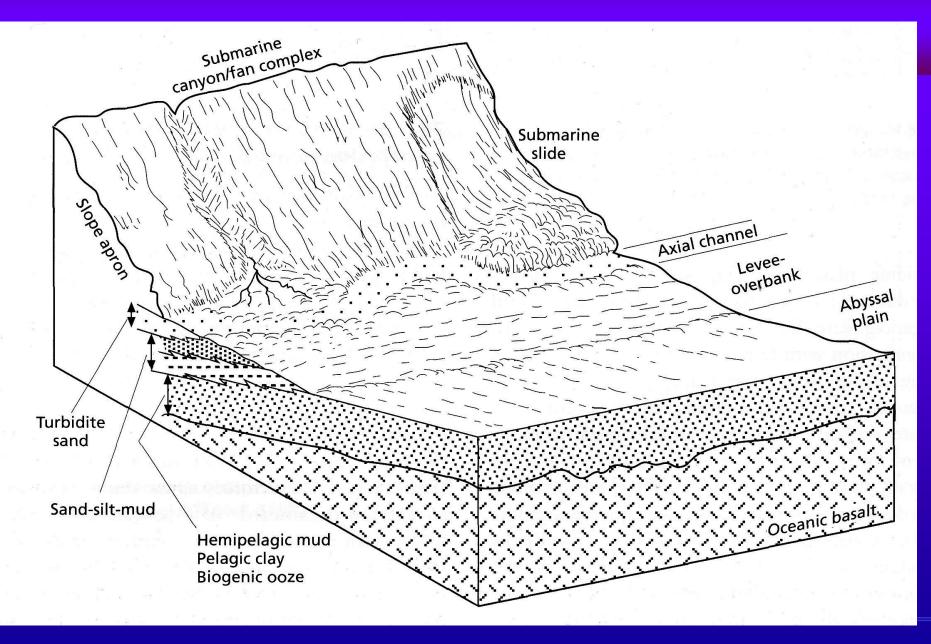




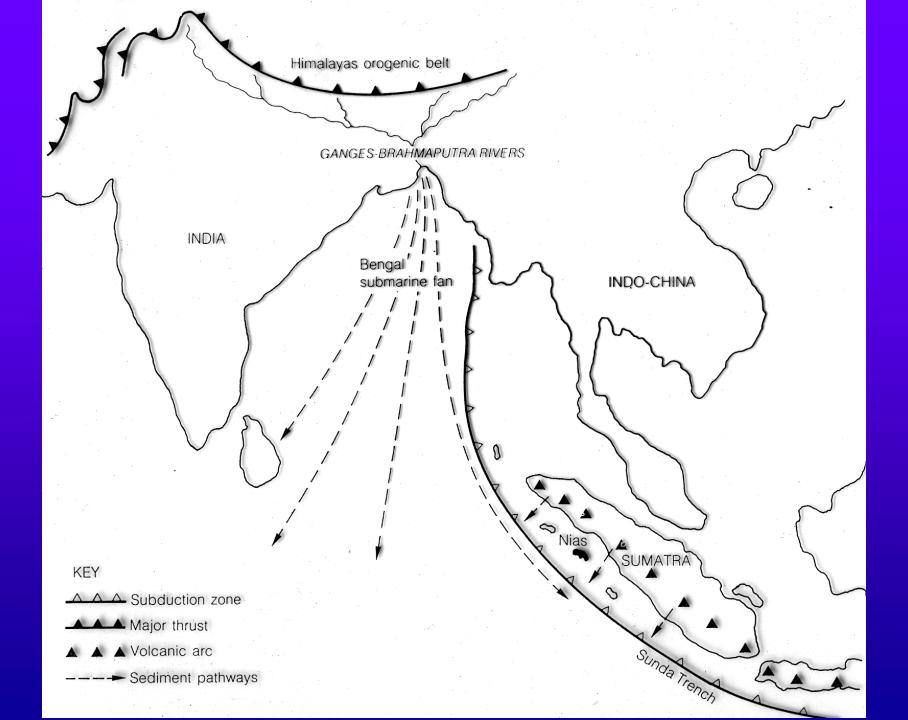


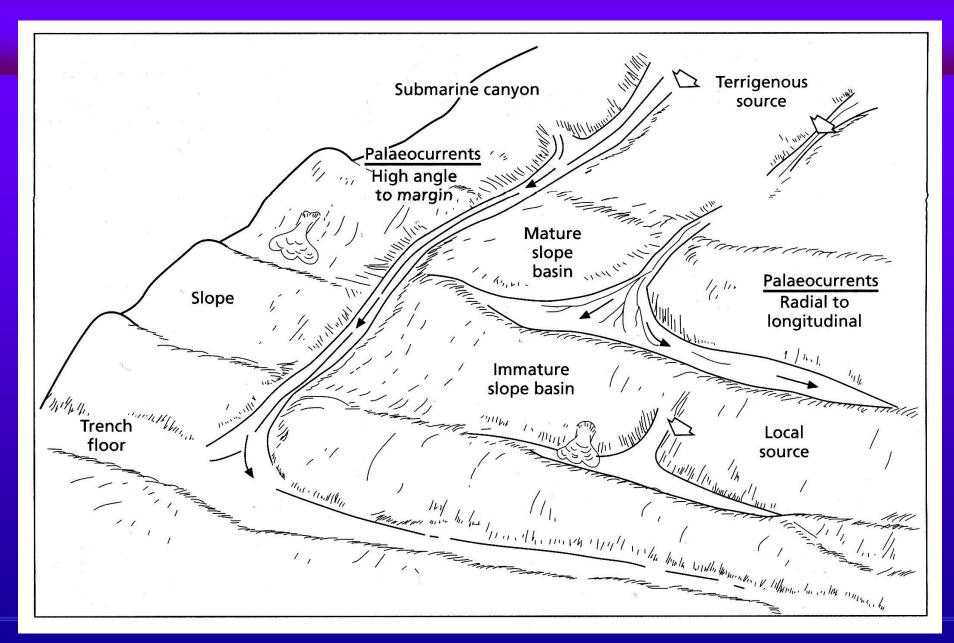




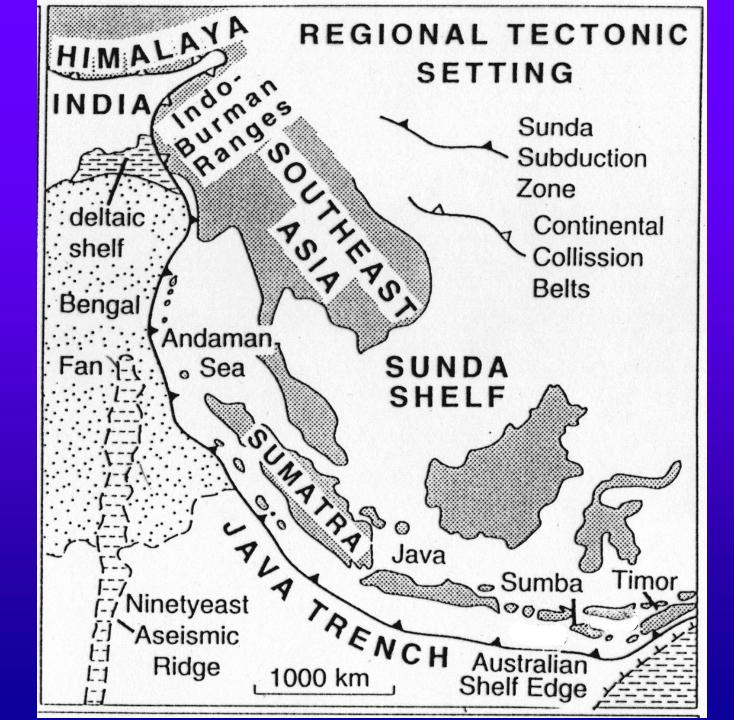


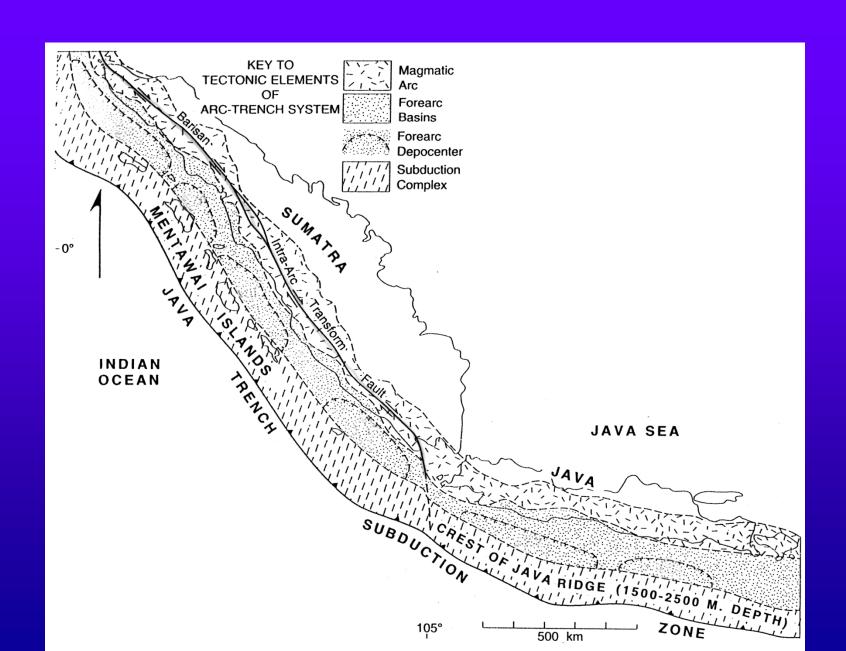
Trenches 10

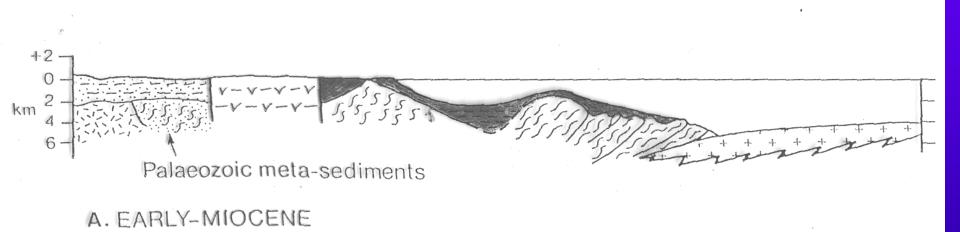


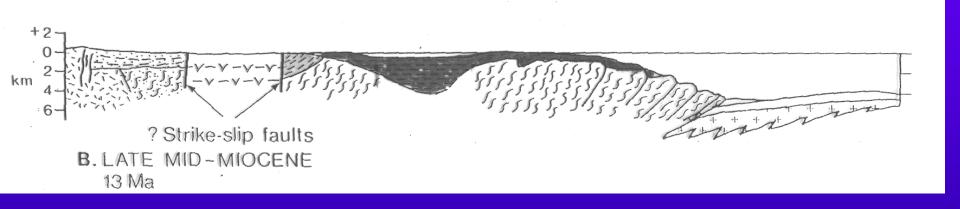


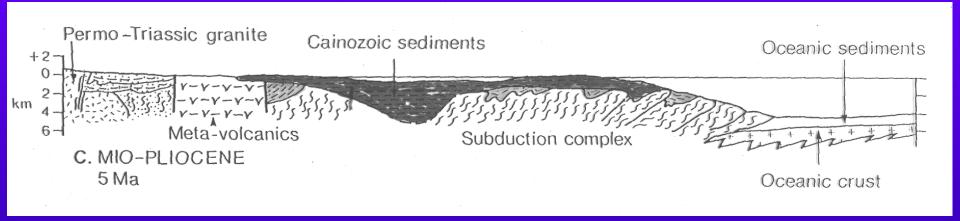
Trenches 12

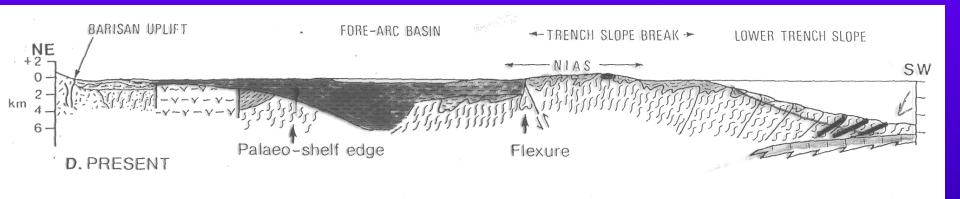


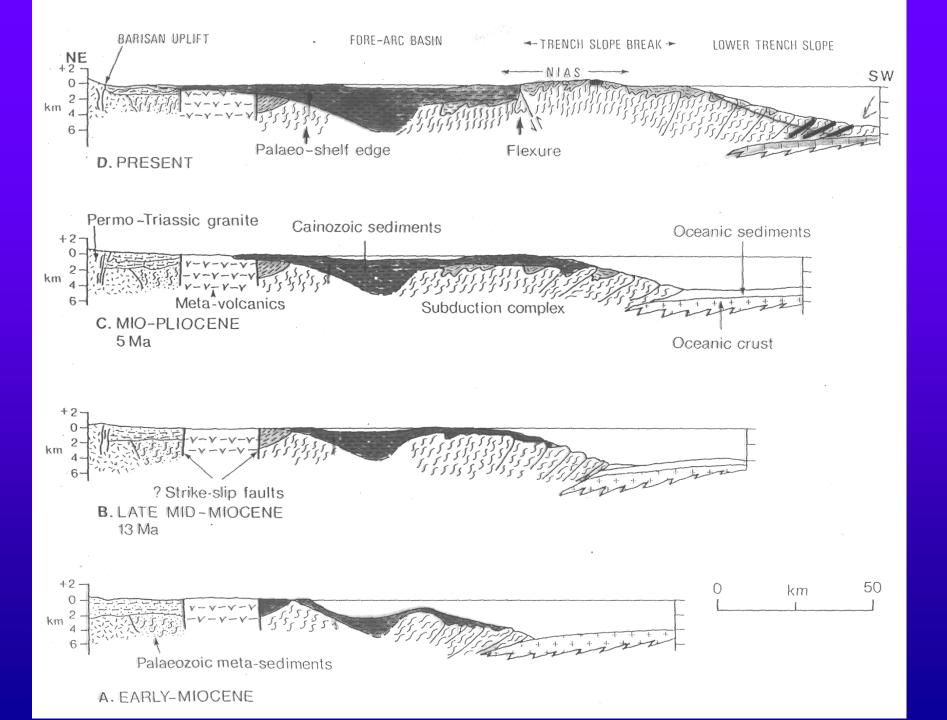






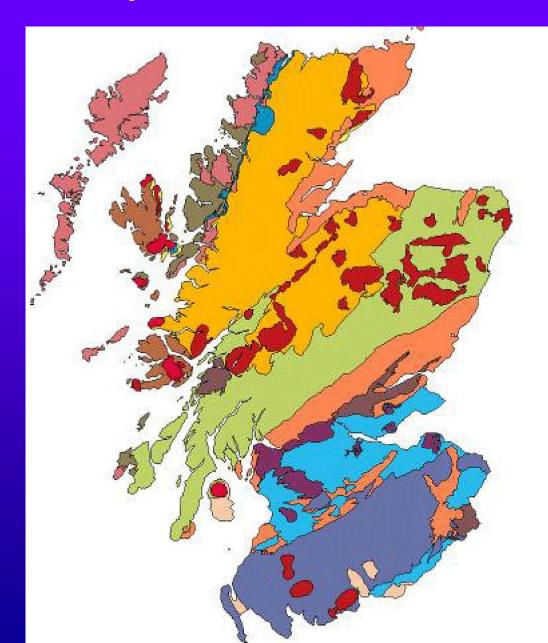


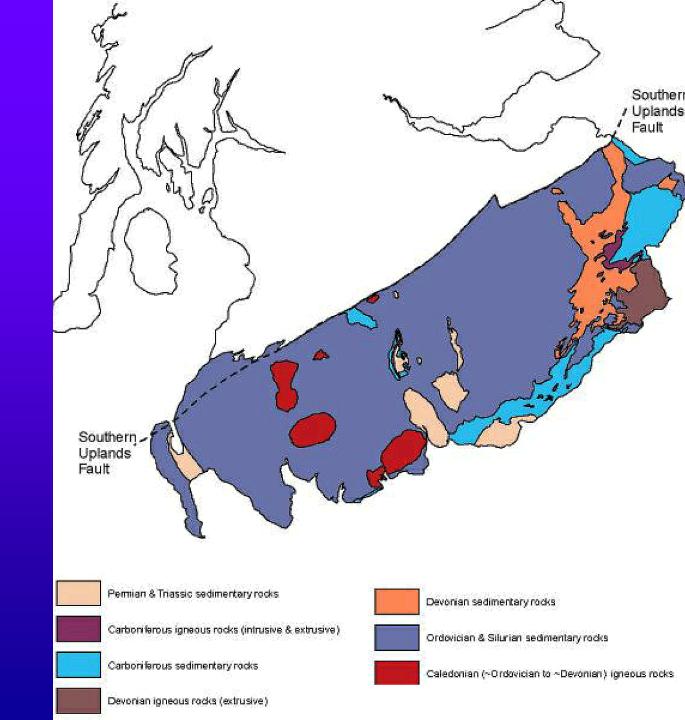




Southern Scotland in Early Palaeozoic

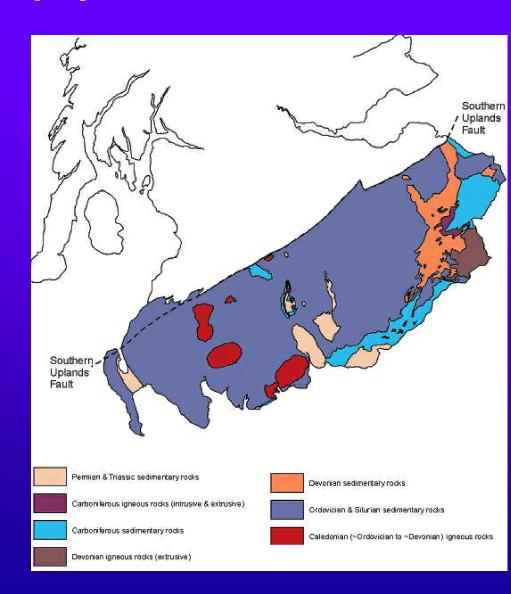
- Scotland lay on the northwestern side of the lapetus Ocean.
- The area now occupied by Southern Scotland and northern England were areas of deep marine sedimentation.

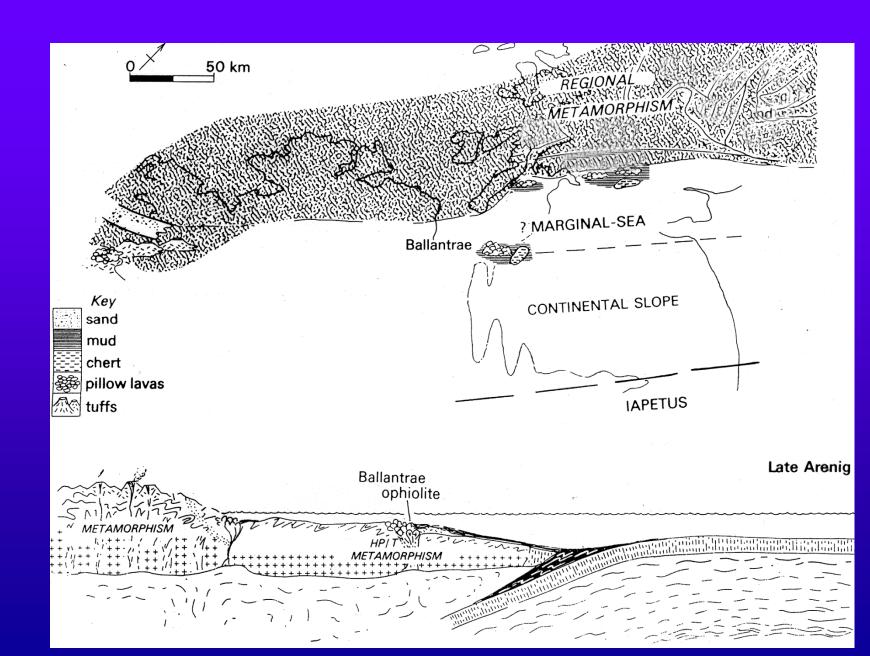




Lithologies and Stratigraphy

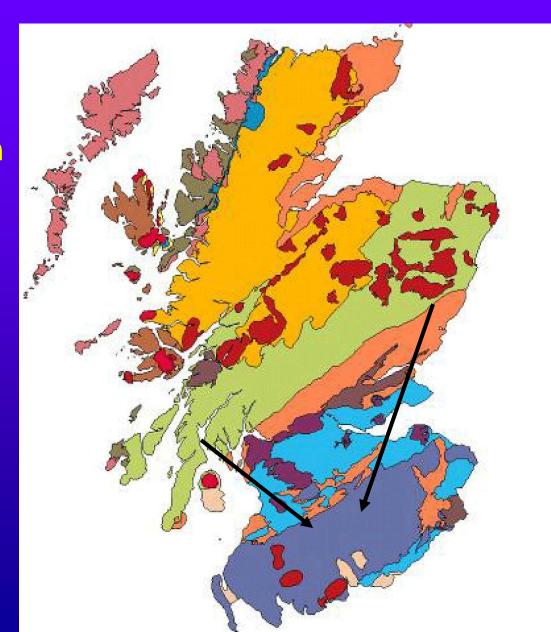
- Middle and Upper Ordovician to early Silurian
- cherts
- black shales
- turbidites
- trend of becoming coarser upwards (more turbidites)





Palaeogeography: S Uplands

- Palaeocurrents.
- Flutes and grooves on the bases of the turbidites generally suggest flow towards the SW or SE.



Palaeogeography: S Uplands

Provenance

- Turbidites contain a lot of lithic fragments
- Source of igneous and metamorphic rocks from the Dalradian to north

