**EVENTS**

- Left-lateral displacement of passive margin, transecting facies continues in Idaho.
- Left-lateral displacement of passive margin, transecting facies continues in SW Calif.
- Oldest age of oceanic crust in ocean basin, oceanic crust, continents record.

**Antler Orogeny**

- Continental margin switches from passive to subduction as island arc imprints on N.A., driving W-facing subduction and east-vergent thrusting of deep HP shales + slabs over passive margin sediments. Topography created by thrust deposits sed in flexural basin (foredeep) thus swamping sed. delivery system.

- Shallow marine sedimentation on passive margin, subsidence rate and sedimentation rate slow as rift margin cools, becomes more rigid. Sediments thicken to west, mostly carbonate sediments. Changes in more shelf/ise well inland at times, building stratigraphic depocenters.

**Island ArcVolcanism**

- Active over extended period. Island arcs local to N.A as they share the same fossil assemblages as in continental NA sediments from the same time. None accreted during period, though one was involved in the Antler Orogeny (above).

**Phase II Passive Margin (~ 350-550 my)**

- Post-rift passive sedimentation on rapidly subsiding, weak, warm passive margin. Sediments thicken rapidly to the west (up to ocm+). Uplifted near present US West. Sedimentation keeps pace of subsidence, and sediments are composed of shallow, nerotidal facies.

**Phase I Passive Margin (~ 650-550 my)**

- Belt Group: thick sediments deposited on weak, thin crust, possibly in early failed rifting (15 km thick).

**Continental Rifting (~ 1.5 by - 650 my)**

- Precambrian (P) basement of NA records history of continent rifting and assembly with younger rocks in sutures between older continental blocks. Younger sutures were ancient ridges, but are now eroded away to flat!