

# A DERIVA CONTINENTAL

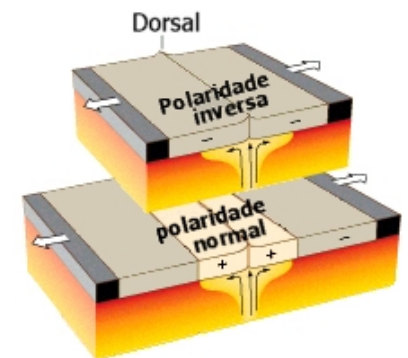
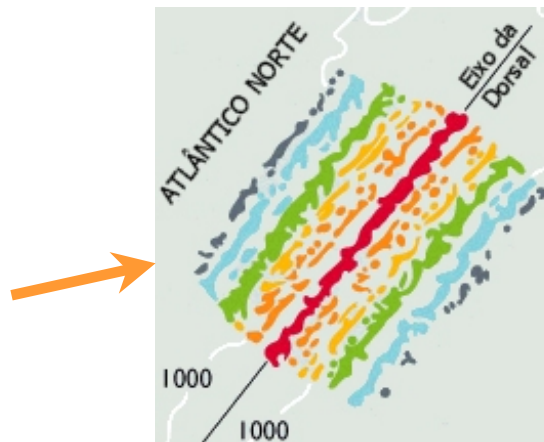
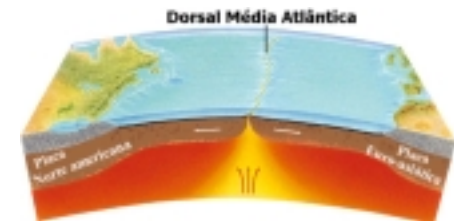
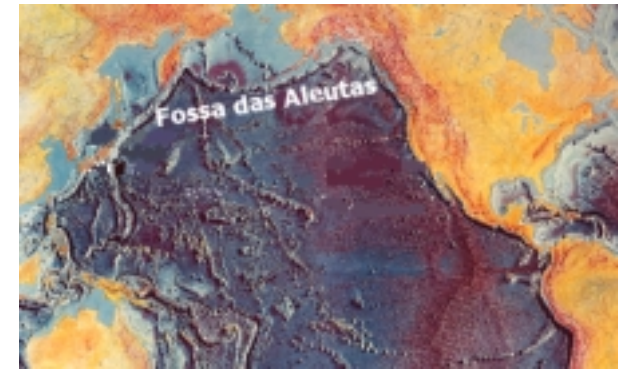
## Teoria de Wegener (1915)

- ▶ Semelhança entre os contornos da África e América do Sul
- ▶ Alinhamento de cadeias montanhosas antigas
- ▶ Testemunhos da glaciação paleozóica
- ▶ Paleoclimas
- ▶ Registo fóssil



# AS PLACAS LITOSFÉRICAS

- ❑ Topografia dos fundos oceânicos
  - ▶ Dorsais, fossas e vulcões (Hess 1948)
  - ▶ Dorsal Médio Atlântica (Ewing)
- ❑ Correntes ascendentes do Manto (Holmes)
  - ▶ Rochas do manto (peridotitos) nas dorsais
  - ▶ Fluxo térmico elevado nas dorsais
- ❑ Expansão dos fundos oceânicos
  - ▶ conceito de litosfera (Dietz)
  - ▶ Idade relativa das ilhas oceânicas (Wilson)
  - ▶ Paleomagnetismo e inversão do campo magnético (Vine e Matthews)

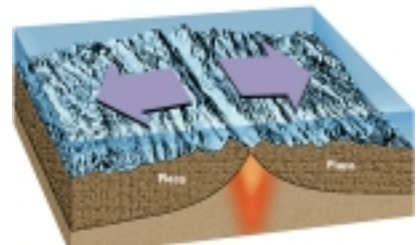


# Placas litosféricas

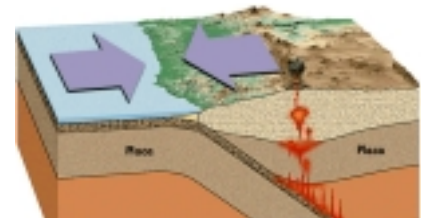


## Margens ou limites das placas

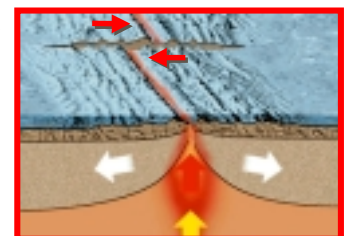
➤ **divergentes - DORSAIS**  
zonas de construção da crosta



➤ **convergentes - FOSSAS**  
zonas de destruição da crosta



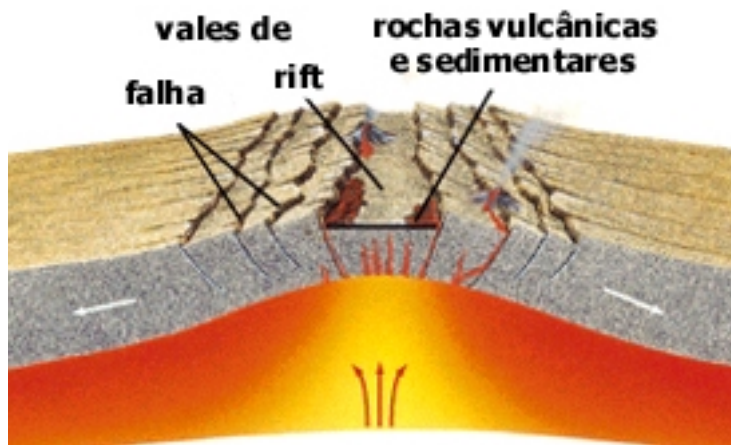
➤ **TRANSFORMANTES**



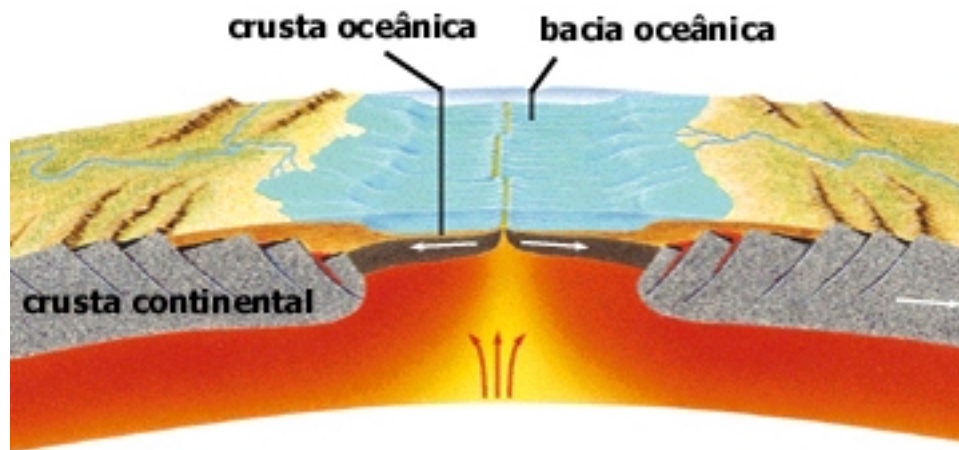
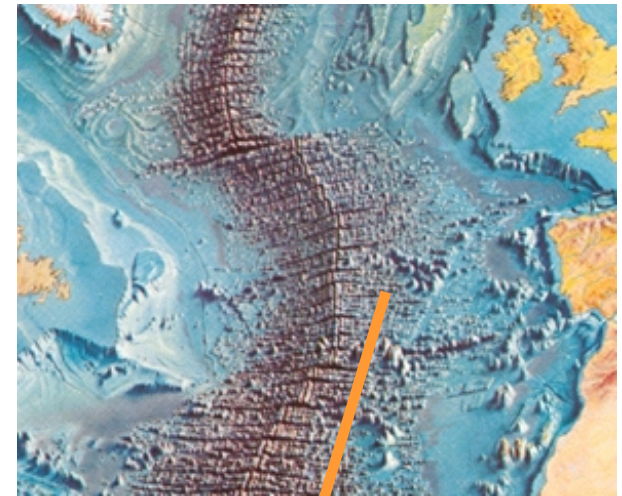
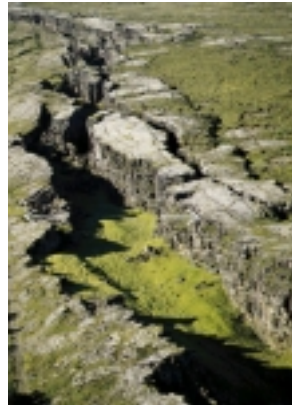
# DISTRIBUIÇÃO DOS VULCÕES



# DORSAIS



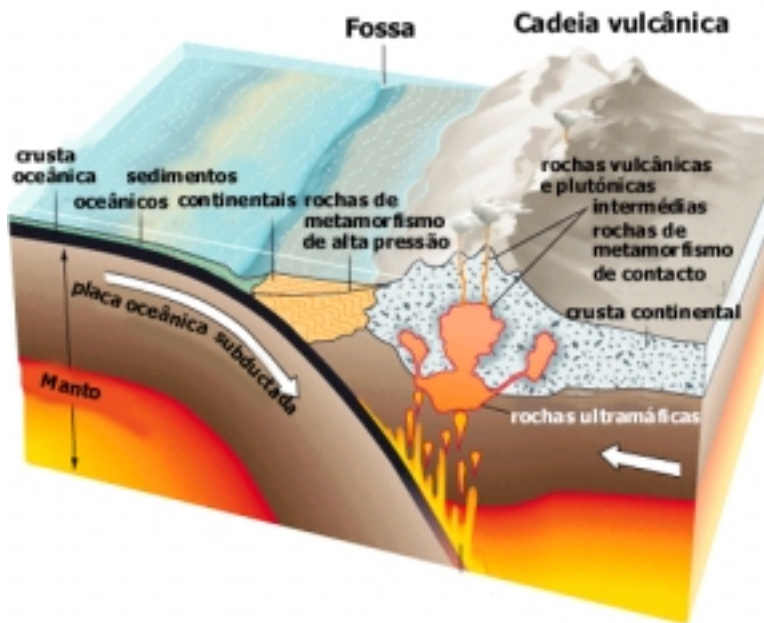
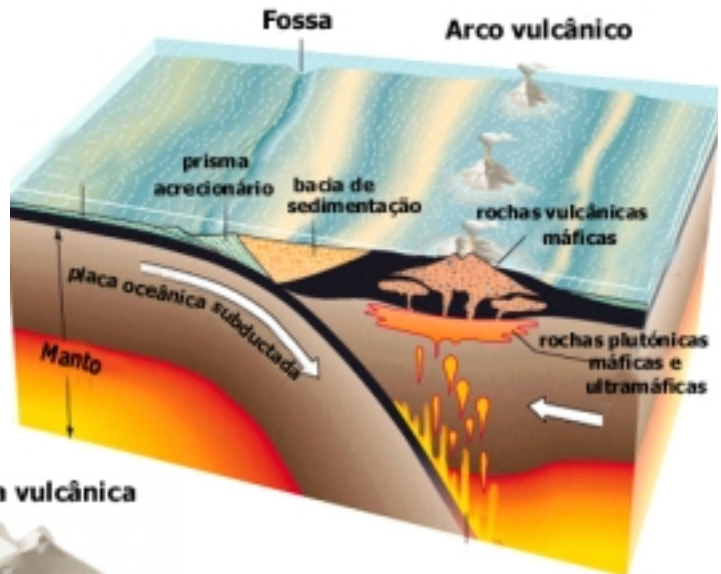
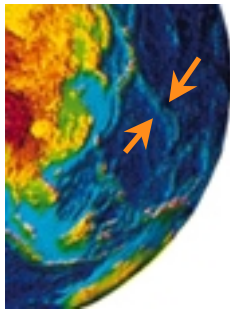
## Islândia



# FOSSAS

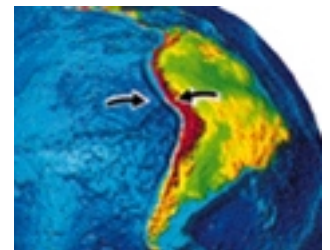
## Oceano - Oceano

Placa Pacífica-Placa das Filipinas



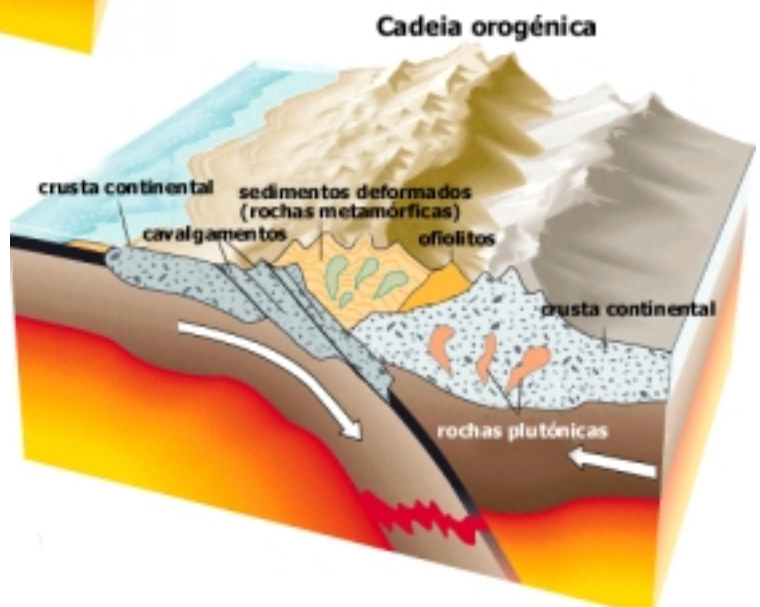
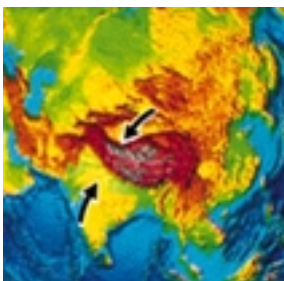
## Oceano - Continente

Placa Nazca-Placa Sul Americana

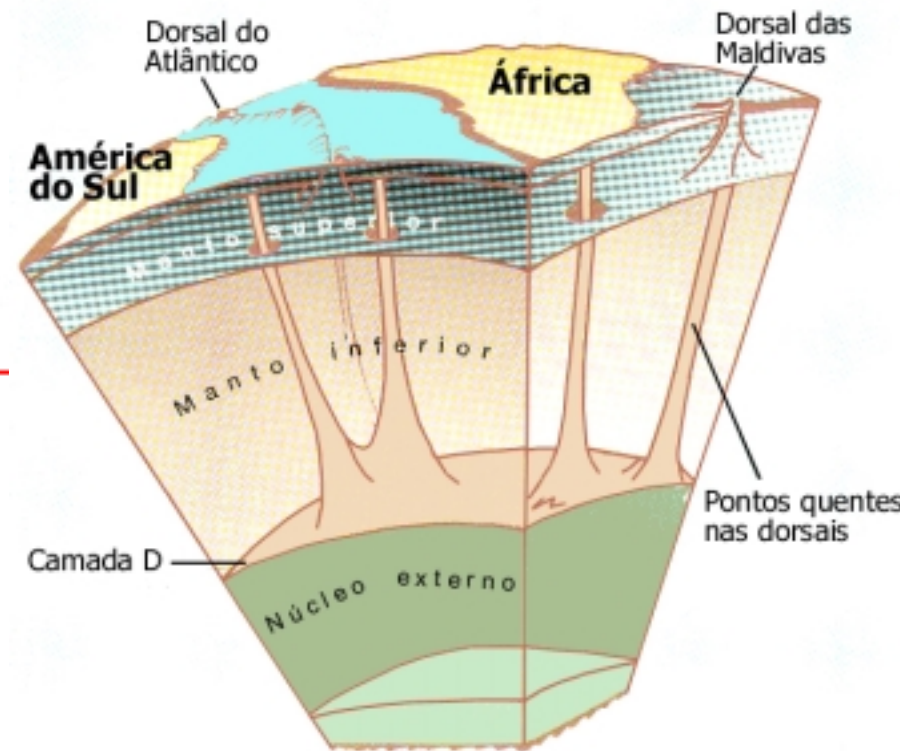
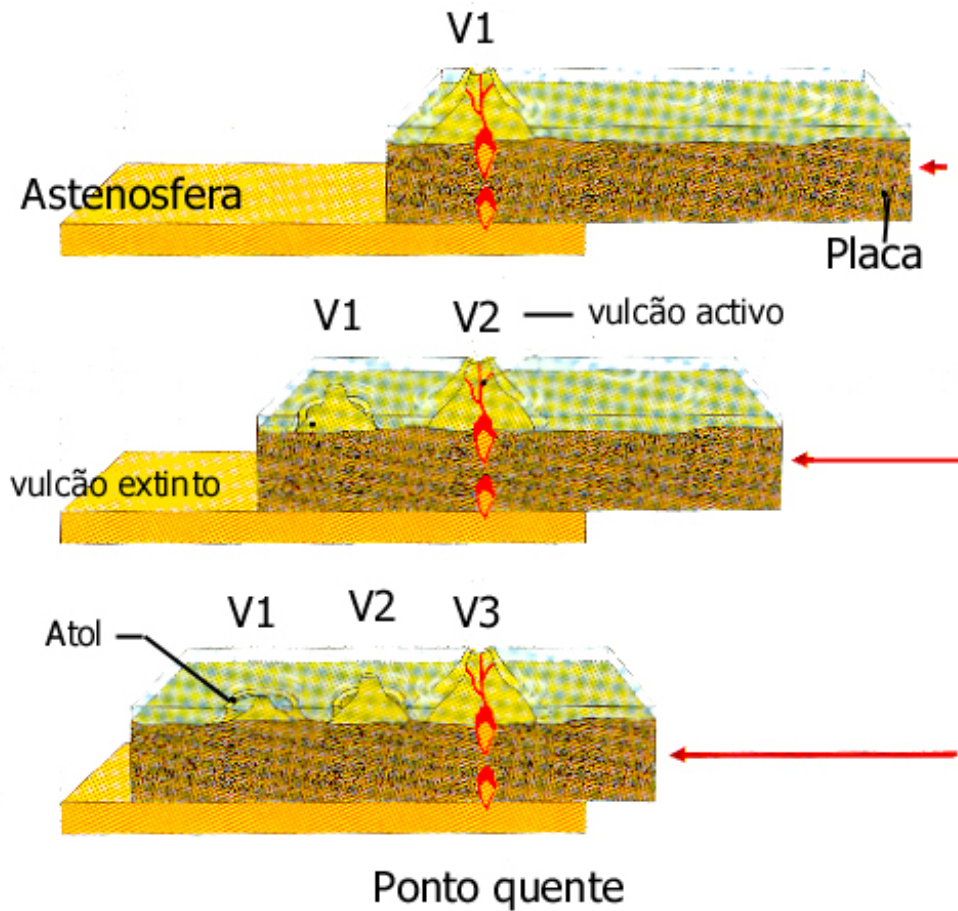


## Continente - Continente

Placa da Índia-Placa Euroasiática



# PLUMAS E PONTOS QUENTES



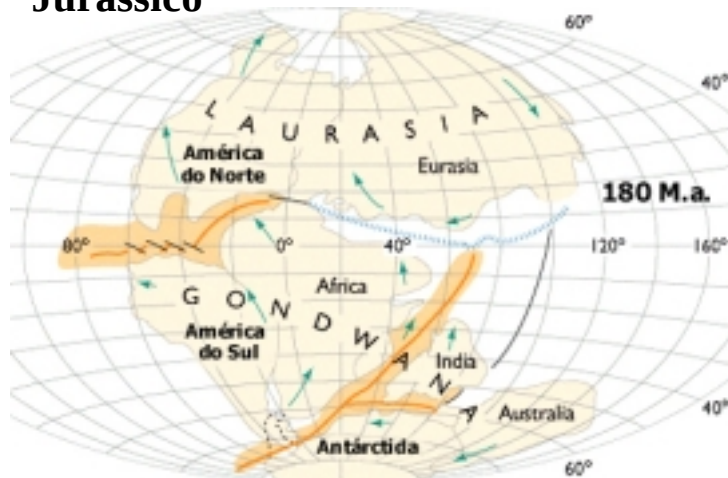
# EVOLUÇÃO PRÉ-PANGAEA



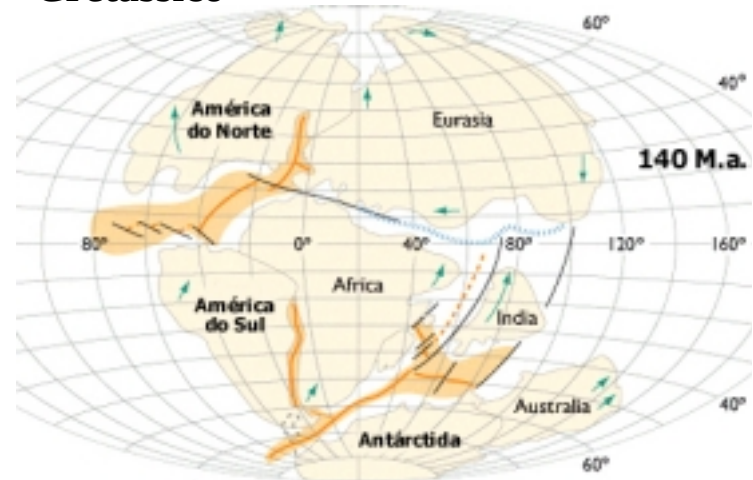
-  América do Norte
-  América do Sul e África
-  Sibéria
-  Norte da Europa
-  Austrália, Antártida e Índia

# EVOLUÇÃO PÓS-PANGEA

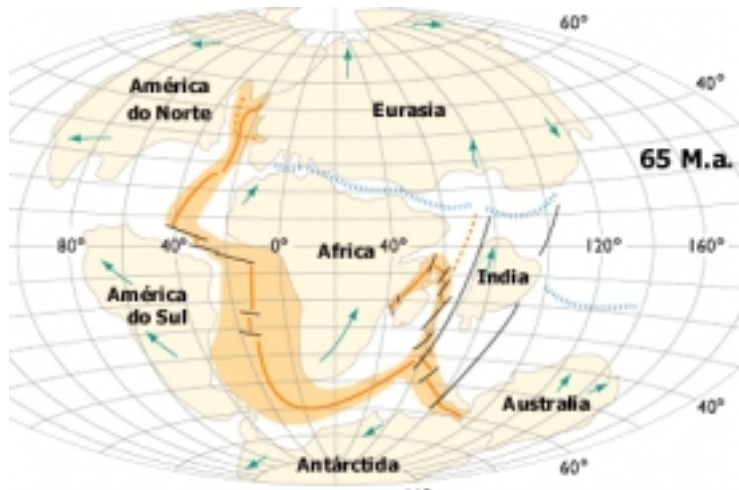
**Jurássico**



**Cretáceo**



**Início do Cenozóico**



-  **Novo fundo oceânico**
-  **Zonas divergentes**
-  **Zonas de subducção**
-  **Falhas transformantes**
-  **Movimento dos continentes**