

# Layers of the Earth 3/9

## Earth's Crust (Lithosphere)

- \* Rock layer
- \* Solid
- \* Composition: O, Si, Al, Fe, Ca, Na, K, Mg → 46%

## Earth's Mantle

- \* Makes up 84% of Earth's total Volume
- \* Temp: 2,000°C
- \* Magma

## Earth's Outer Core

- \* Liquid Fe (Iron)
- \* Temp: 3,800°C
- \* 2,250 KM thick

## Earth's Inner Core

- \* Solid iron
- \* Rotates (SPINS)
- \* 1,220 KM thick
- \* 6,000°C or 11,000°F

# Plate Tectonics

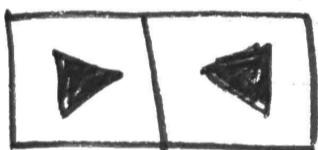
3/11

Fault = a boundary that separates two or more plates.

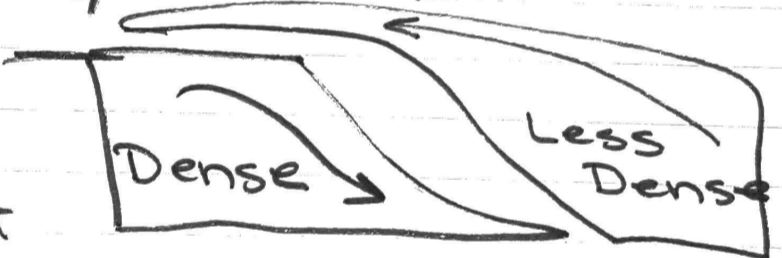
Plate = a land body (part of earth's crust)

## 3 Main Types of Boundaries (Faults)

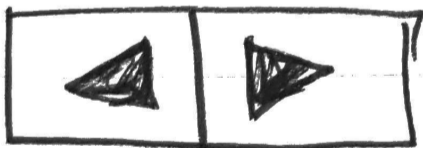
### 1) Convergent/Subduction



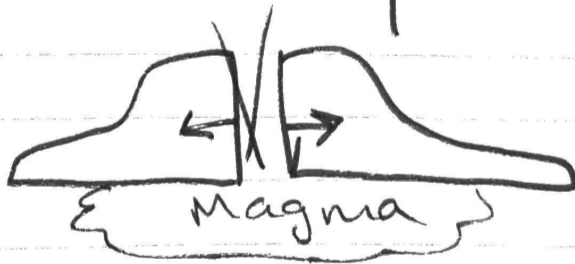
↑ Fault



### 2) Divergent Boundary



↑ Fault



### 3) Transform/Slip Boundary



↑ Fault

\*SAN  
Andreas  
Fault

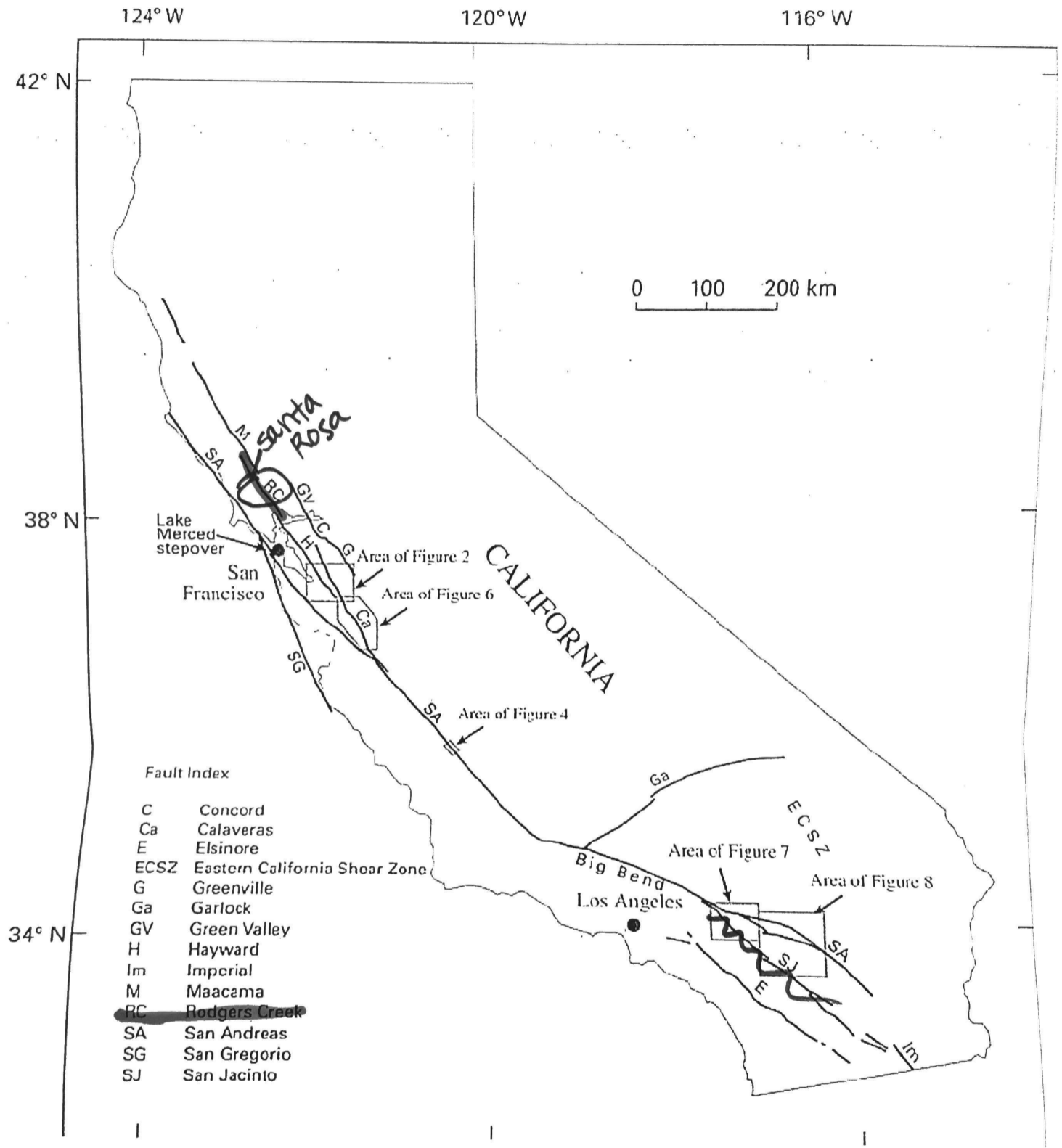
P10

3

170

2) T

3)



3

## Alfred Wegener

- Studied weather
- Came up w/ the theory of Continental Drift
- Continents were all joined in 1 super continent called: Pangaea!

Mid-Ocean Ridges  
& Seafloor Spreading

62

63

Ms. Holmstedt

Thanks,