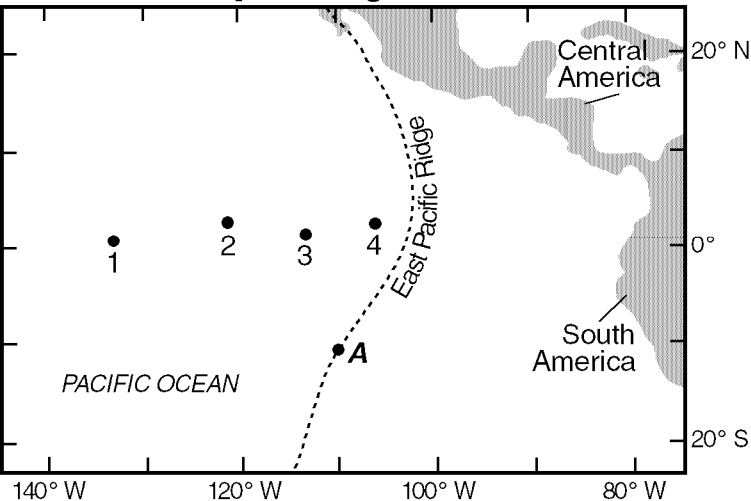


Map of Drilling Sites





Time (min)



P-wave
arrival

S-wave
arrival

0

5



Time (min)



P-wave
arrival

S-wave
arrival

0

5



Time (min)



P-wave
arrival

S-wave
arrival

0

5

10

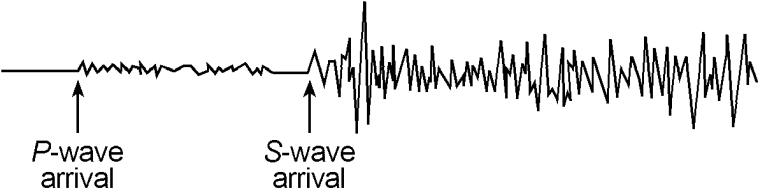


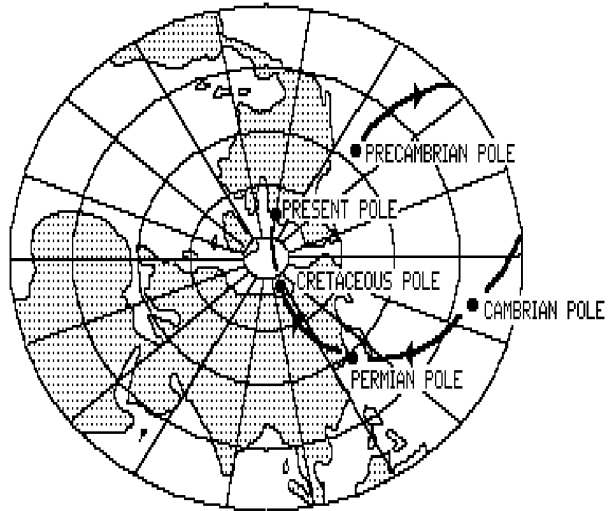
Time (min)



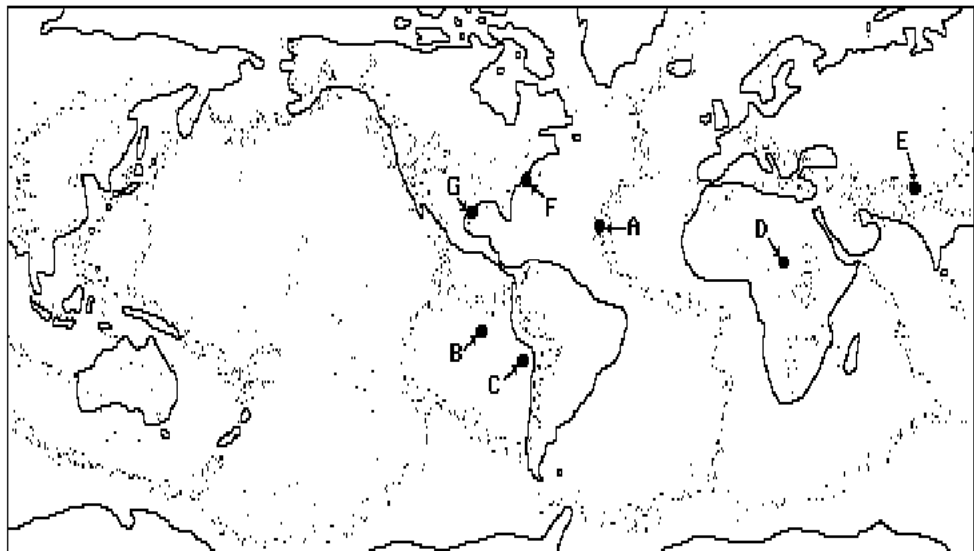
P-wave
arrival

S-wave
arrival





WORLD MAP OF EARTHQUAKE EPICENTERS



KEY:  Oceanic Crust  Continental Crust
 ----- Atlantic Ocean Surface  Mantle

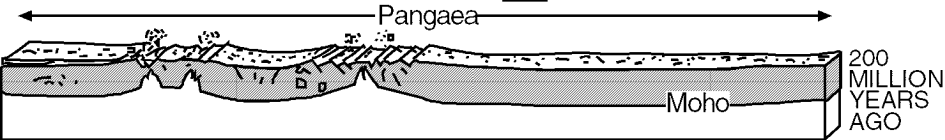


DIAGRAM I



DIAGRAM II

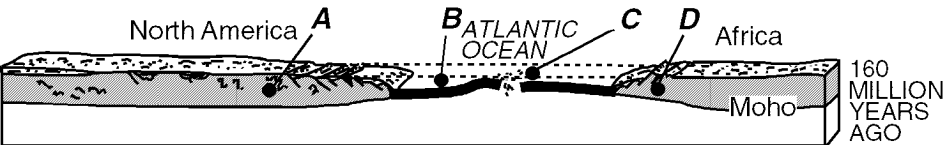
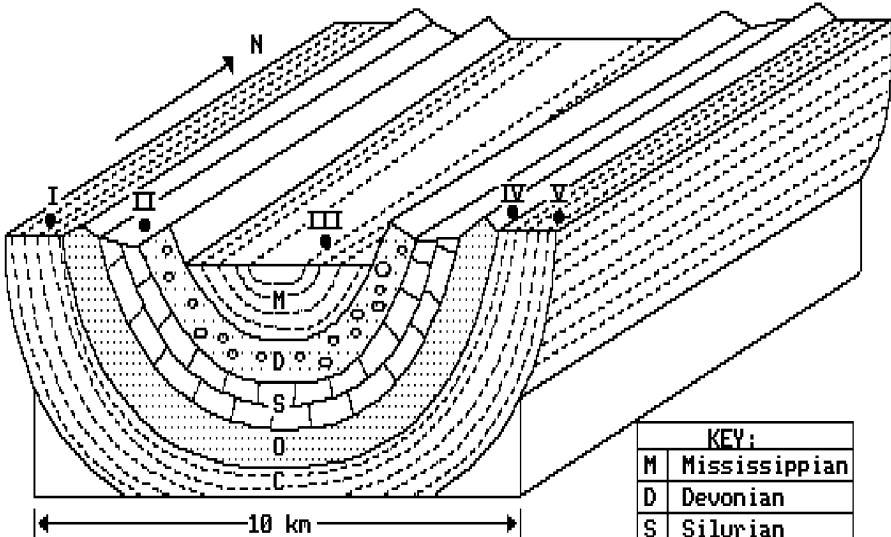
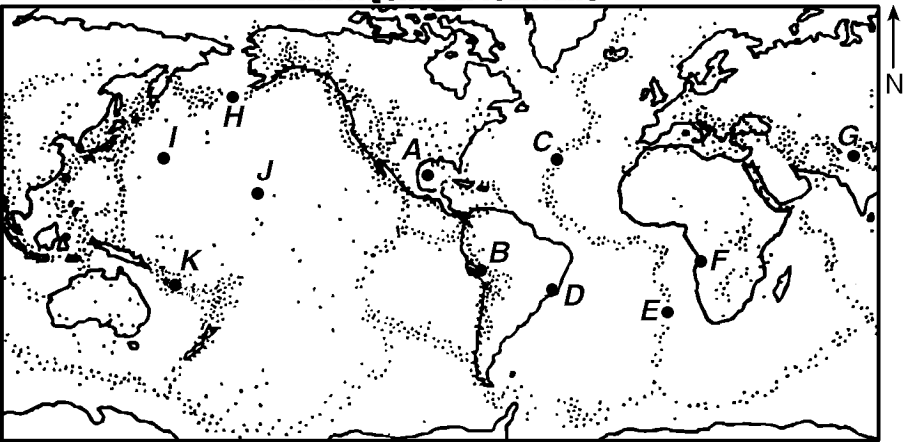
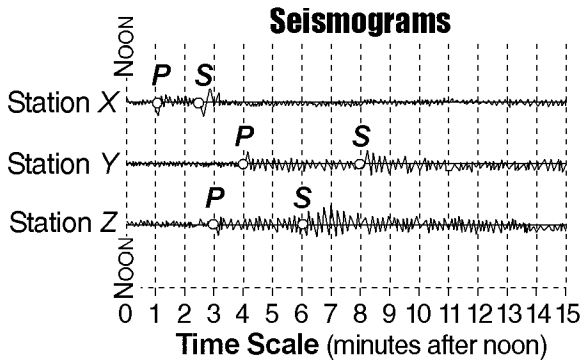
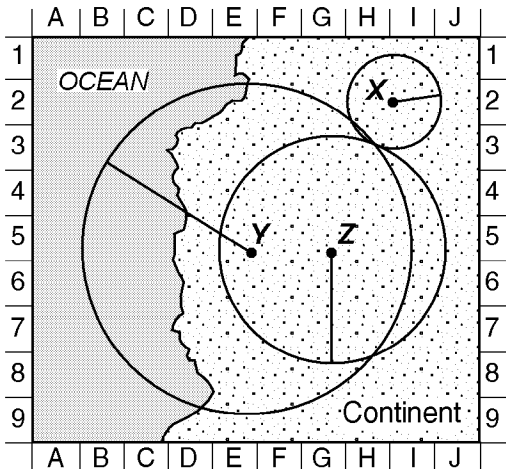


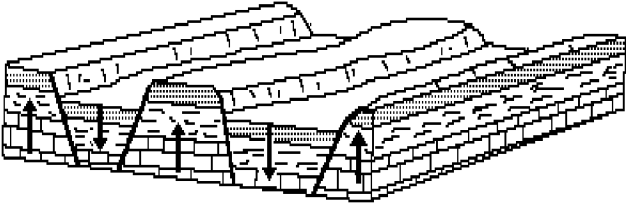
DIAGRAM III



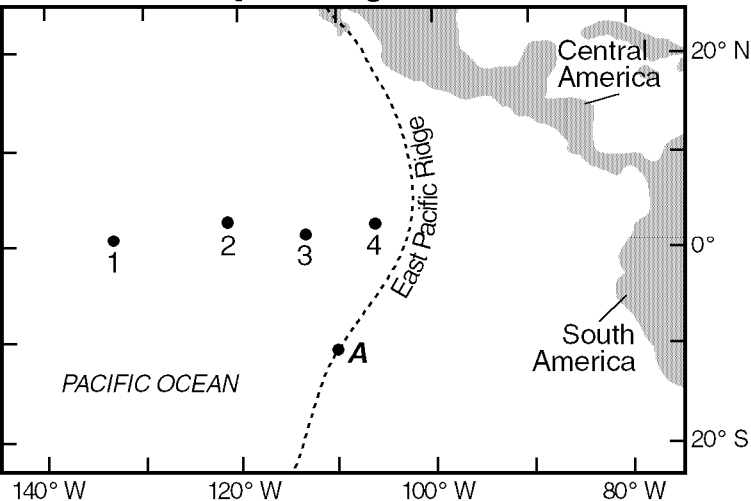
EARTHQUAKE EPICENTERS

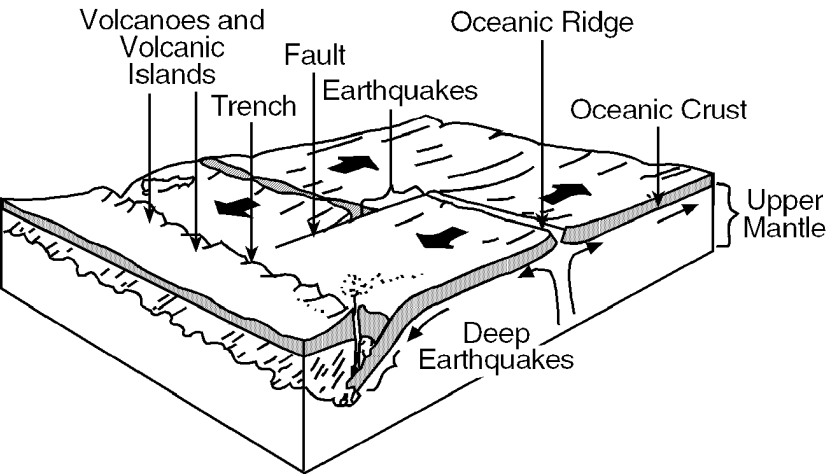


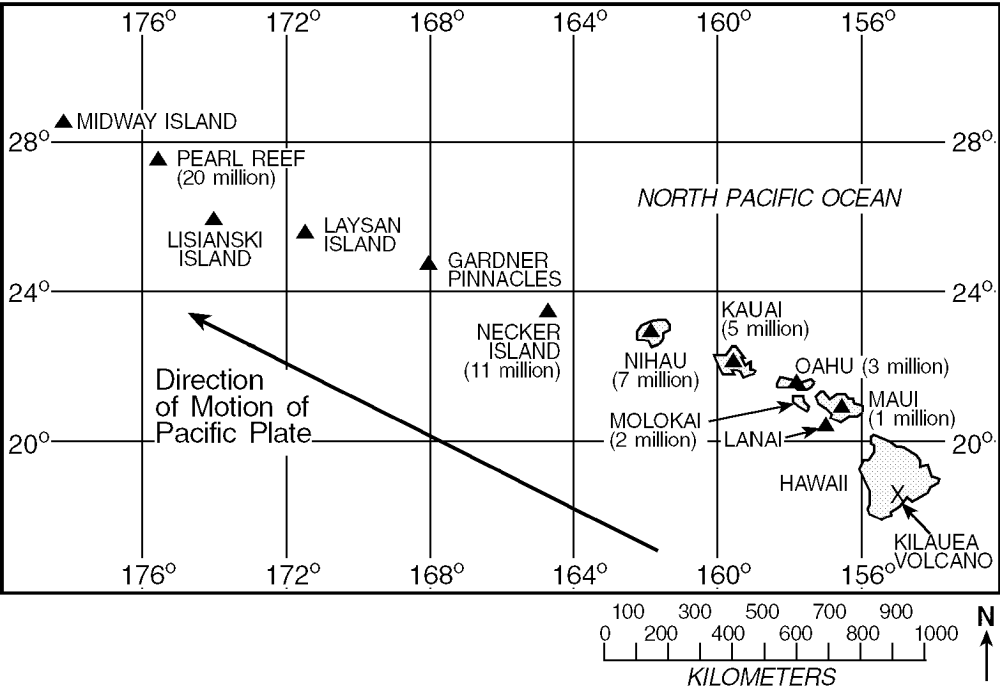




Map of Drilling Sites

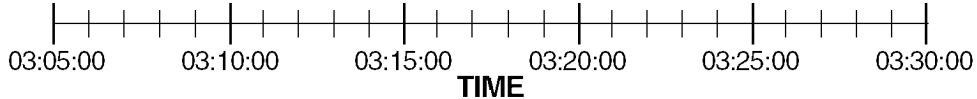
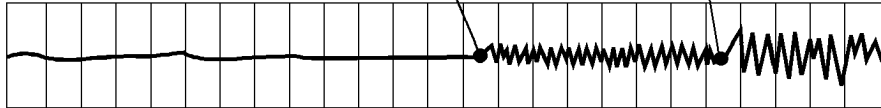






Compressional

Shear



KEY:  Oceanic Crust  Continental Crust
 ----- Atlantic Ocean Surface  Mantle

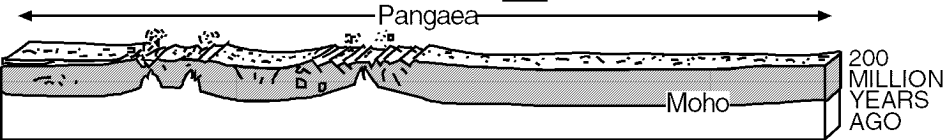


DIAGRAM I



DIAGRAM II

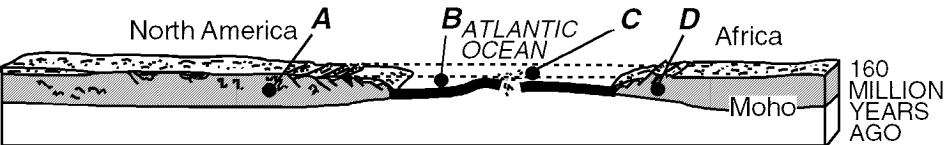
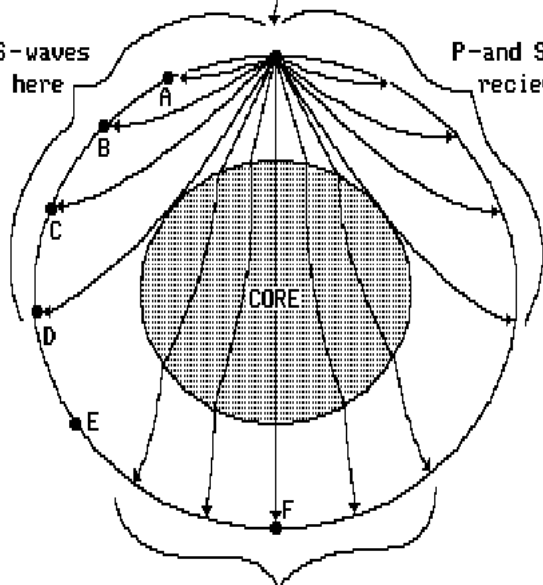


DIAGRAM III

**EARTHQUAKE
SOURCE**

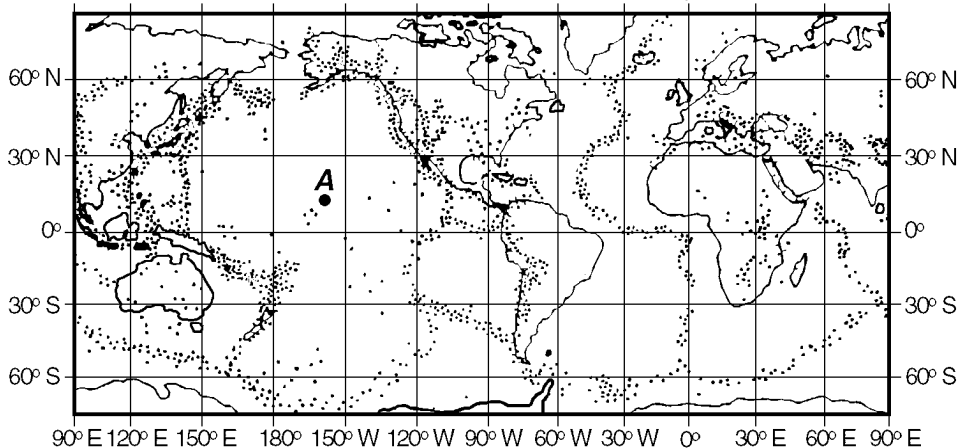
**P- and S-waves
recieved here**

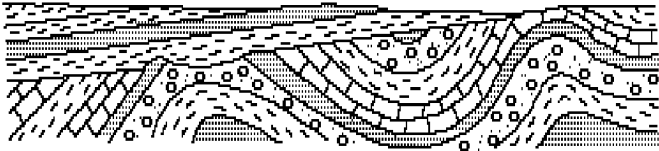
**P- and S-waves
recieved here**

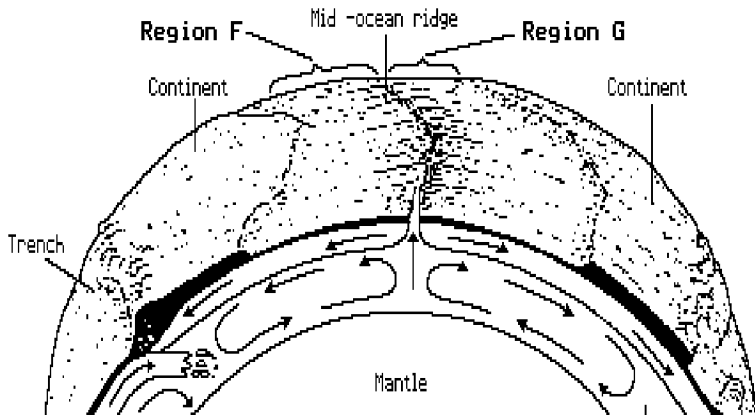


P-waves recieved here

90° E 120° E 150° E 180° 150° W 120° W 90° W 60° W 30° W 0° 30° E 60° E 90° E



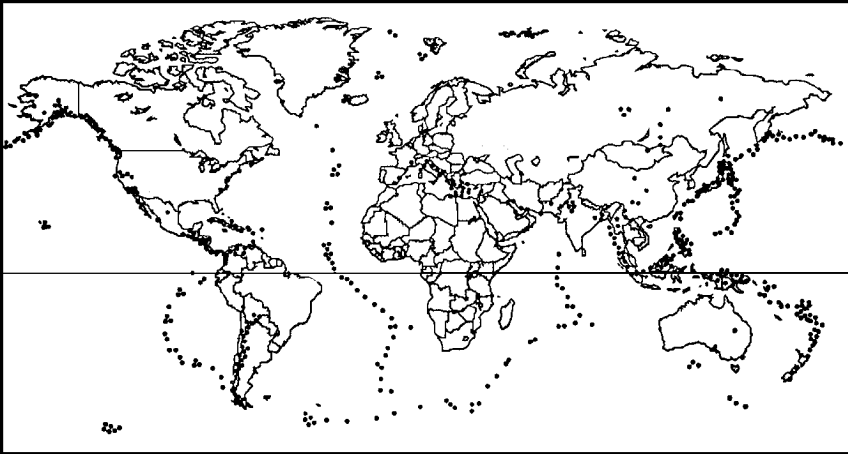


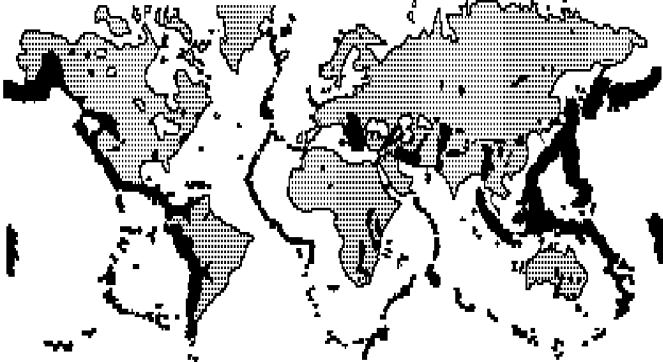


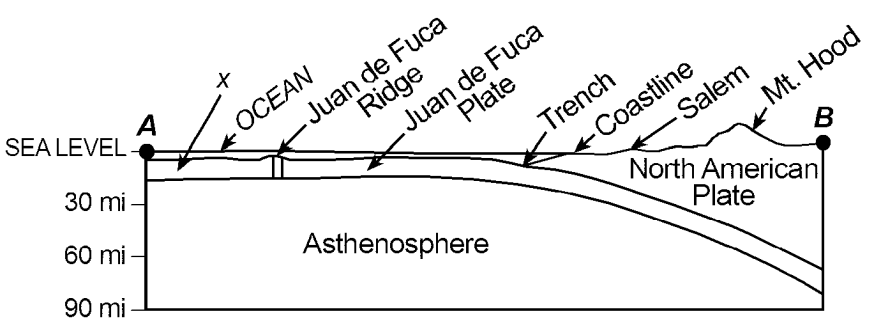
(NOT DRAWN TO SCALE)

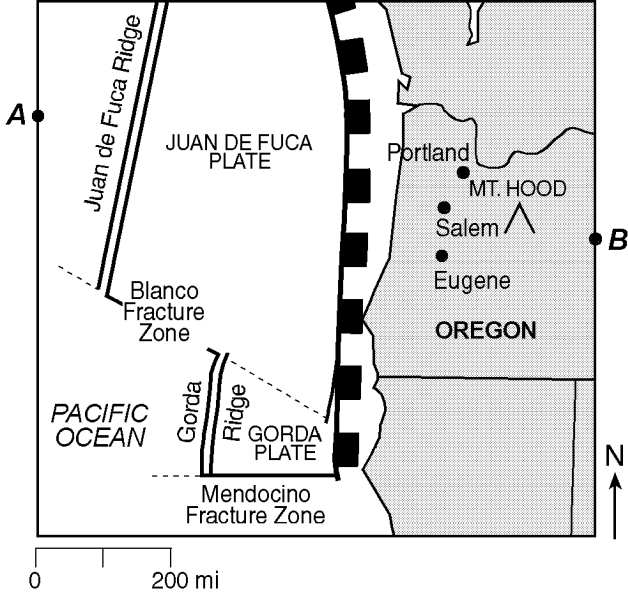
Plate Boundaries DATA TABLE

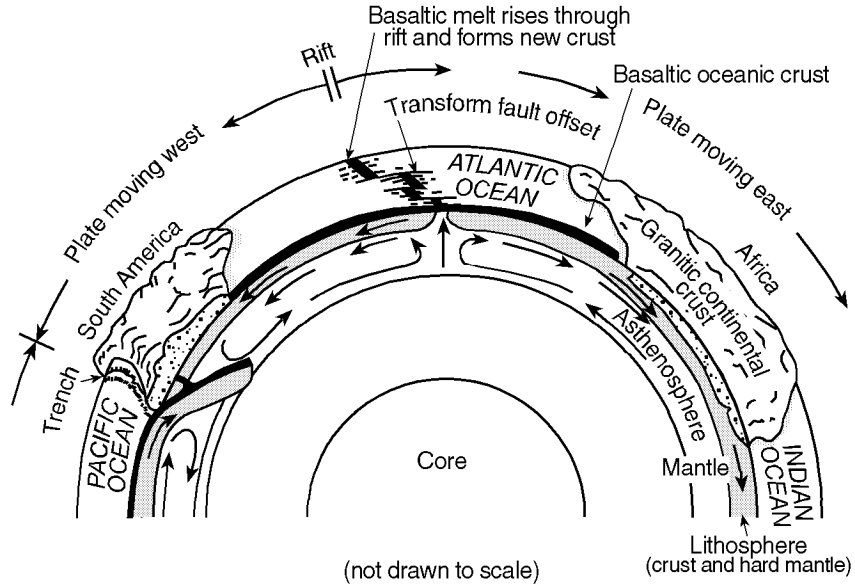
Location	Type of Plate Boundary		
	Divergent	Convergent	Transform
East Pacific Ridge			
Aleutian Trench			
West side of the South American Plate			
San Andreas Fault			

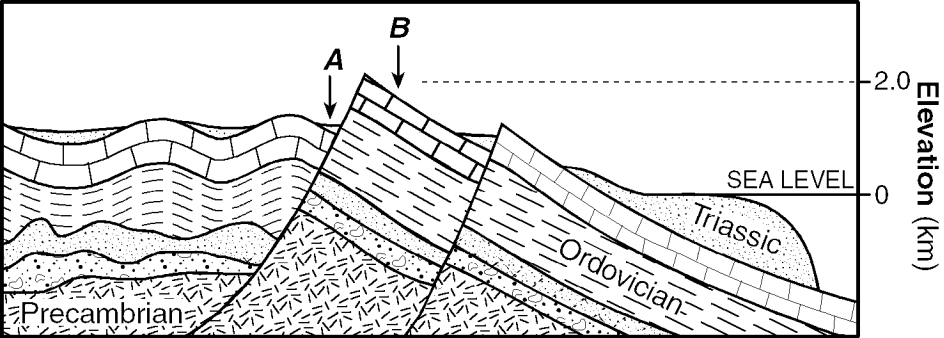




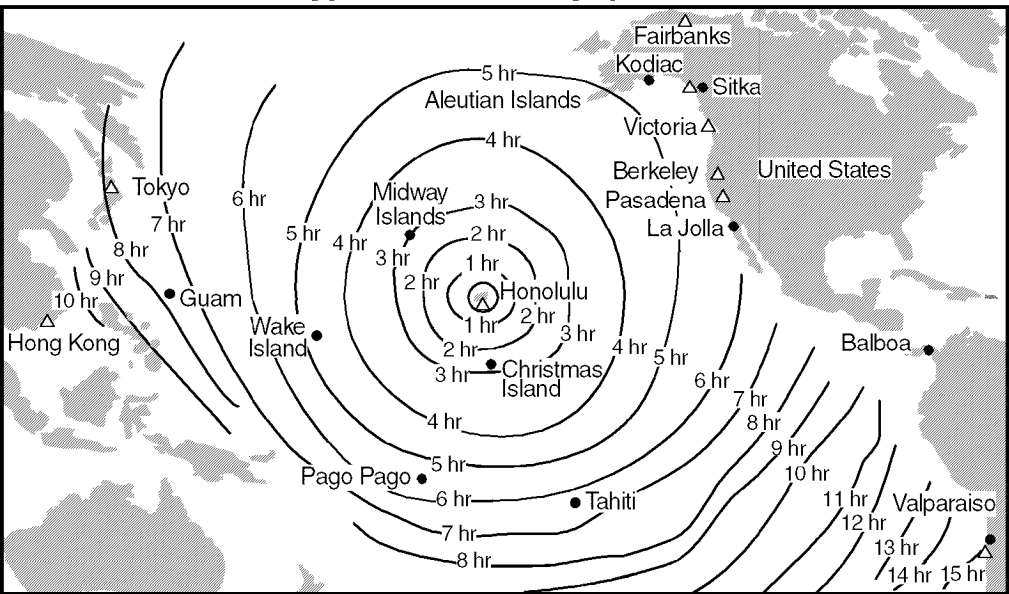








TSUNAMI TRAVEL TIMES TO HAWAII



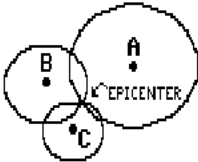
Reporting Stations

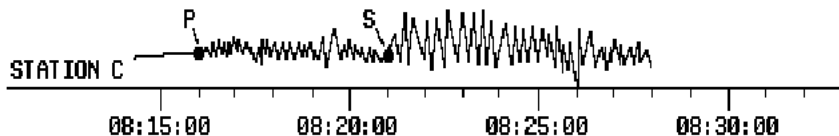
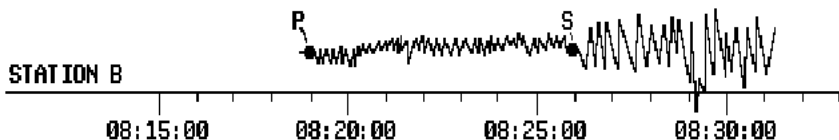
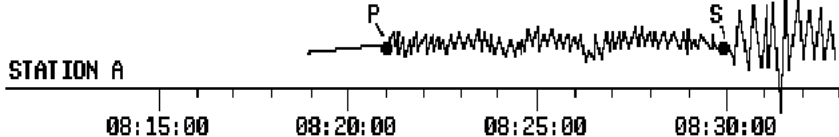
● Tide Stations

△ Seismograph Stations

hr = hours

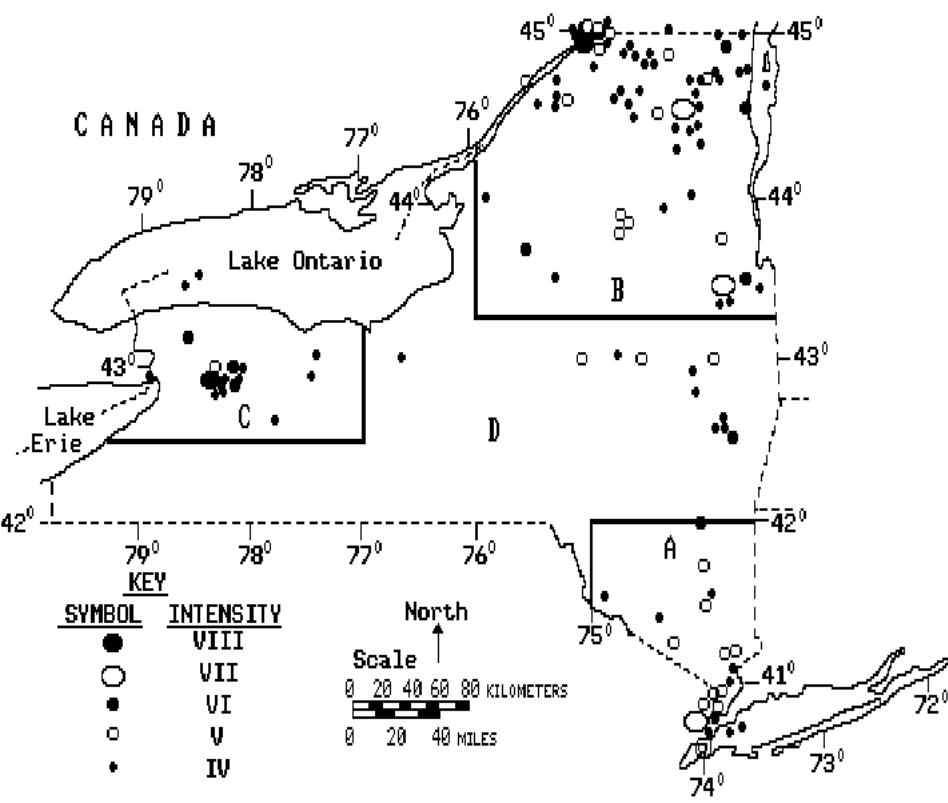
0 500 1000 2000
DISTANCE (miles)





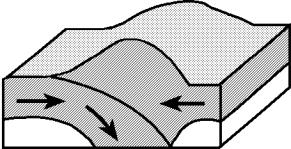
hours —
minutes —
seconds —

P - Primary Wave Arrival
S - Secondary Wave Arrival

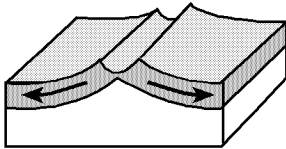


amount of horizontal movement

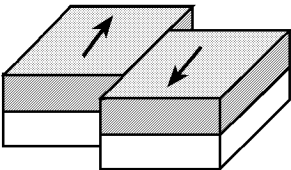
time



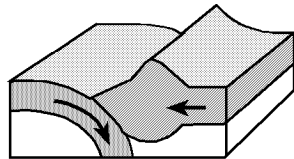
A



C



B



D

KEY:



Continental
Crust



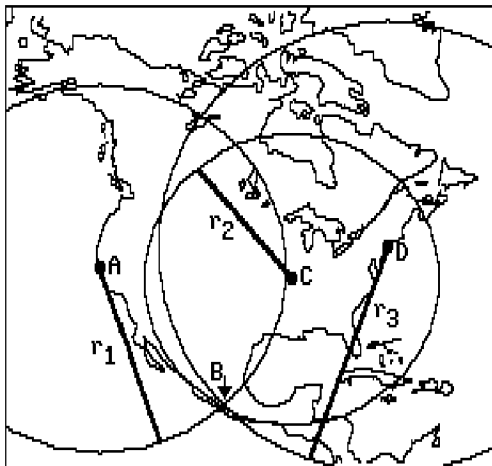
Oceanic Crust



Top of Mantle

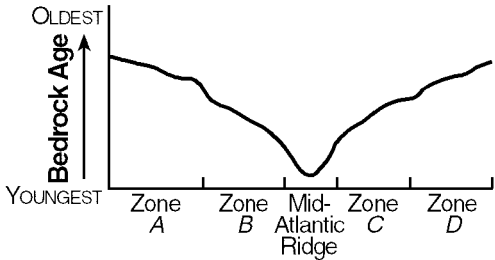


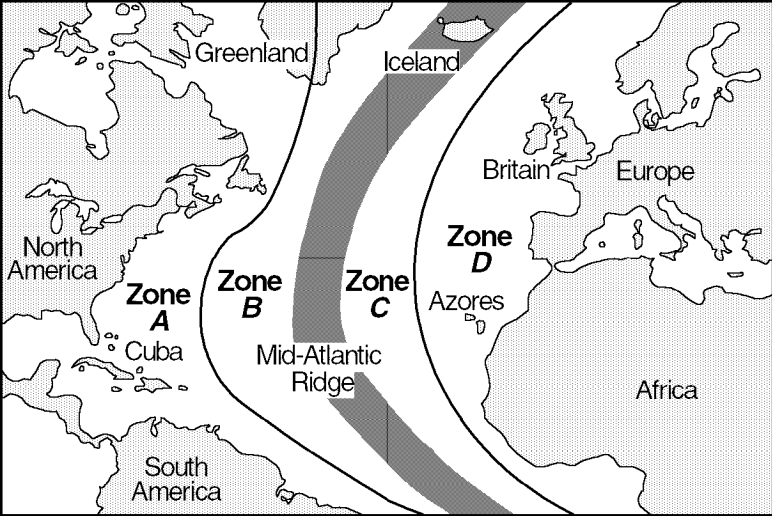
Direction of
Plate Motion



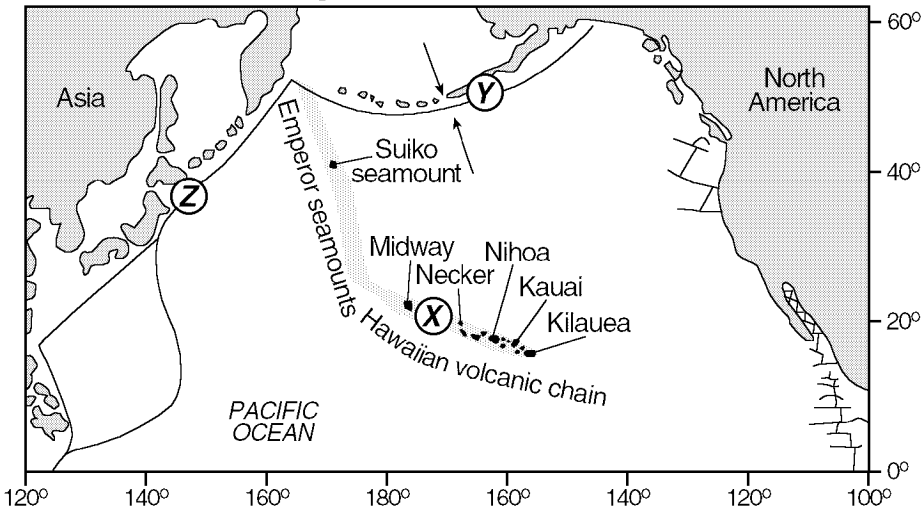
NORTH

SCALE
0 1 2 3
x10³ Kilometers





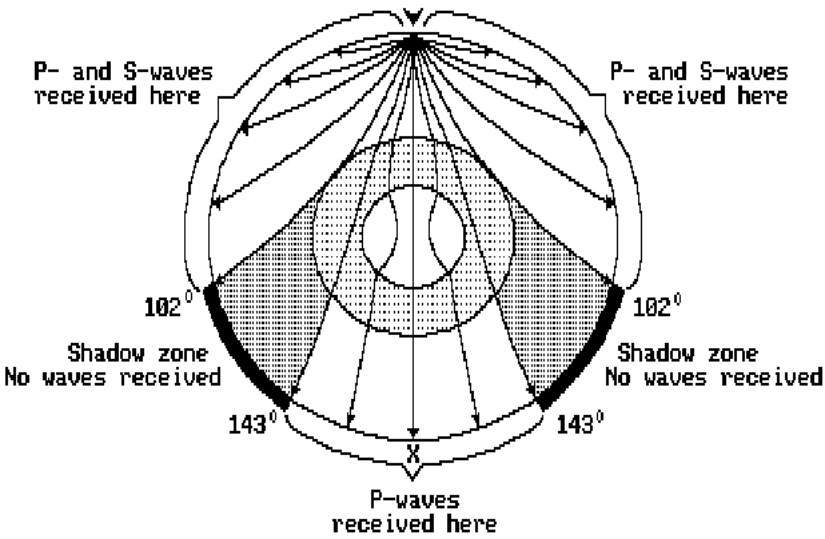
Map of Volcanic Features

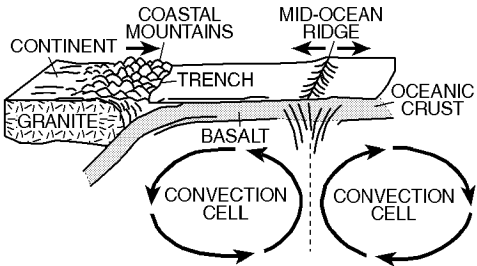


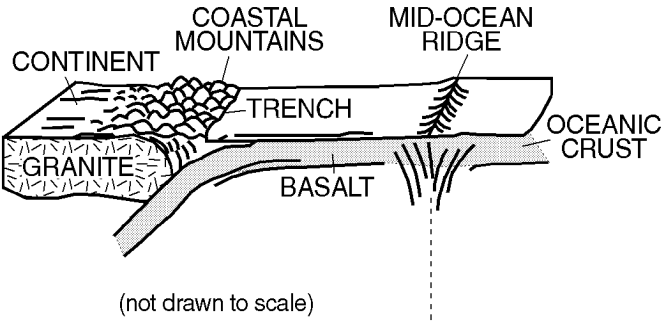
DATA TABLE: **Age of Volcanic Features**

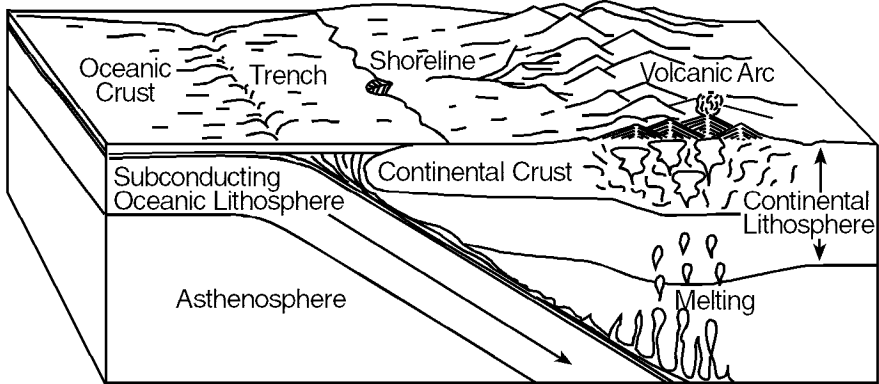
Volcanic Feature	Distance from Kilauea (km)	Age (millions of years)
Kauai	545	5.6
Nihoa	800	6.9
Necker	1,070	10.4
Midway	2,450	16.2
Suiko seamount	4,950	41.0

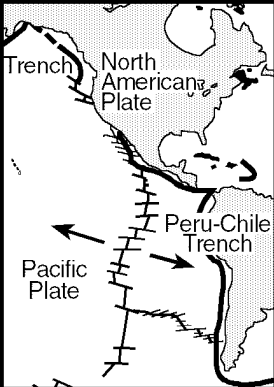
Earthquake Epicenter

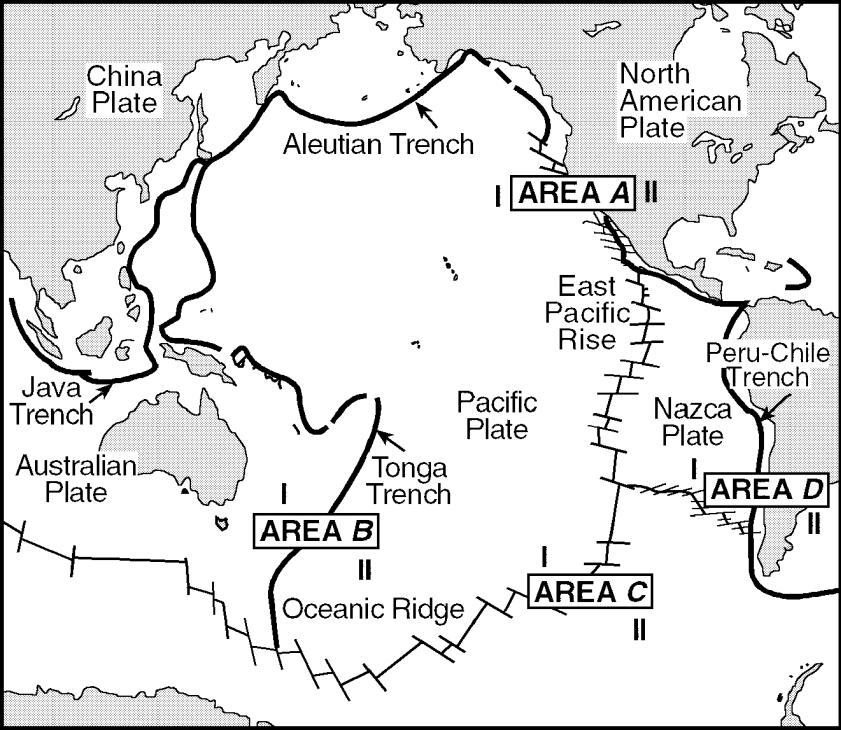


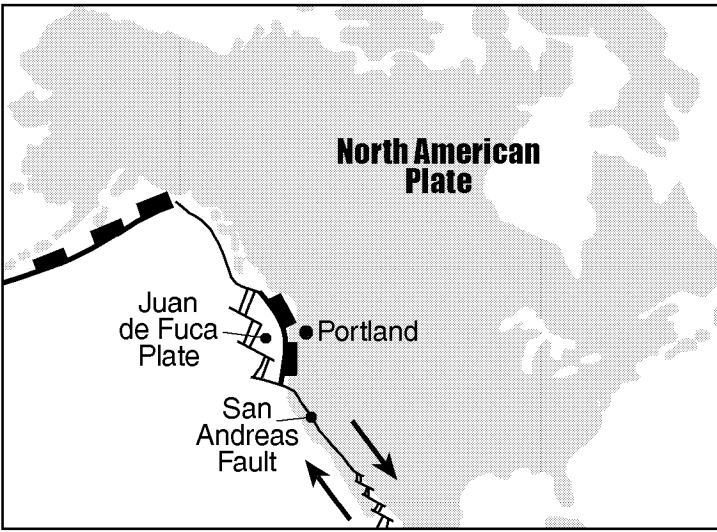


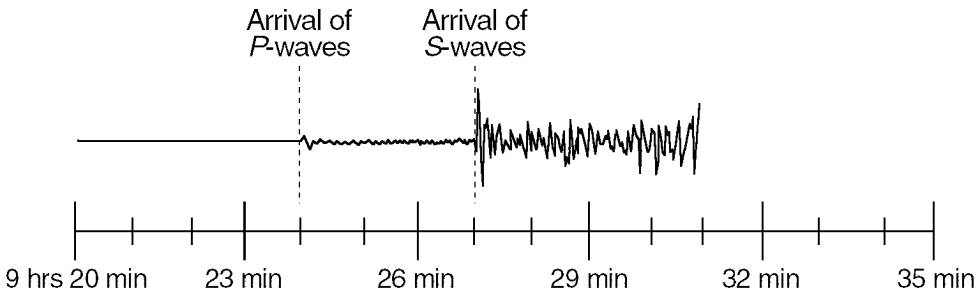


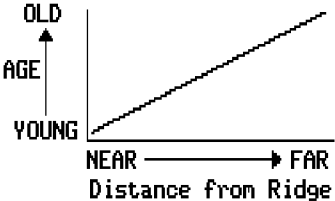


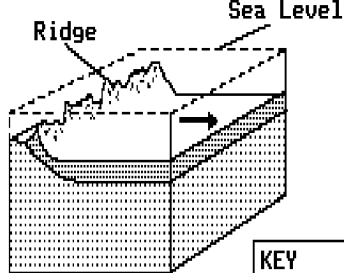








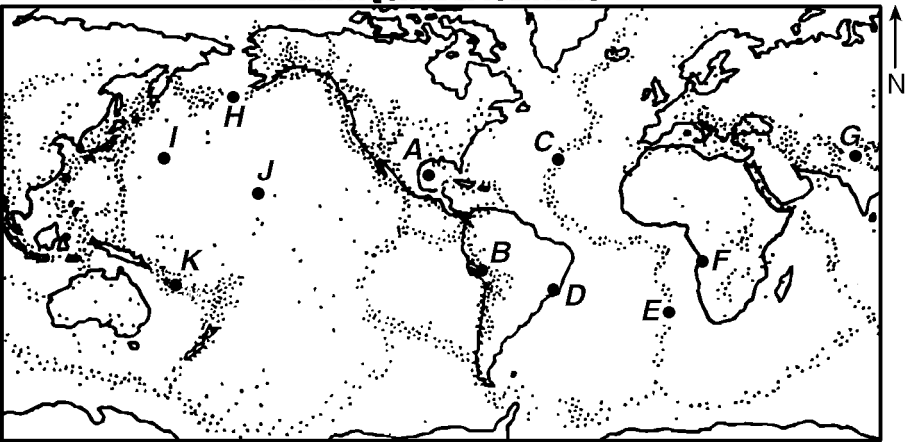




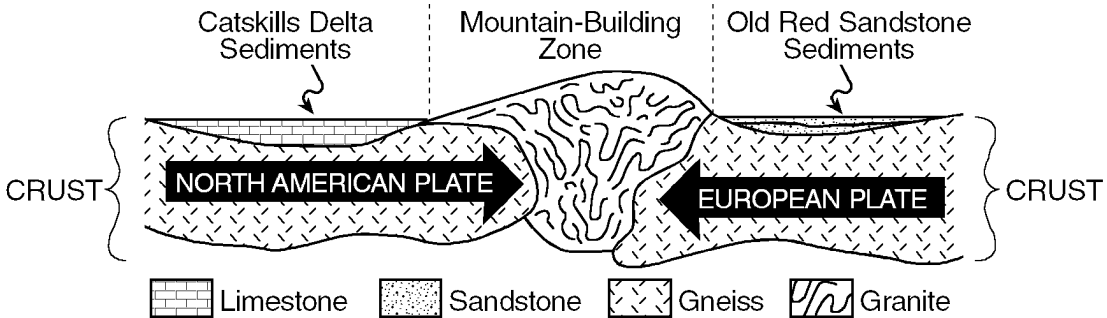
KEY

-  Oceanic Crust (Basalt)
-  Mantle
-  Direction of Plate Movement

EARTHQUAKE EPICENTERS



ACADIAN MOUNTAIN-BUILDING





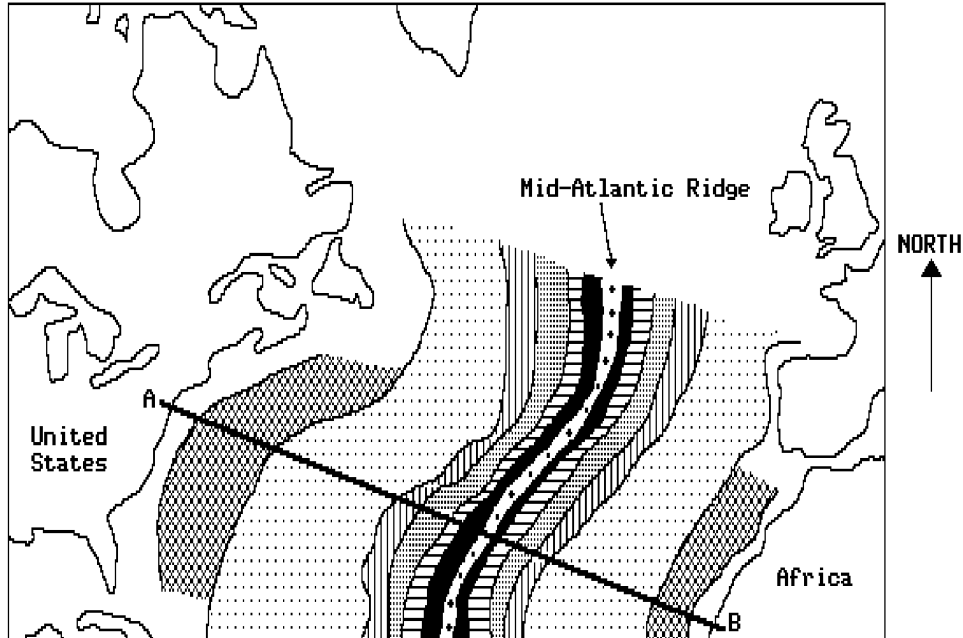


DIAGRAM I

Rift Valley

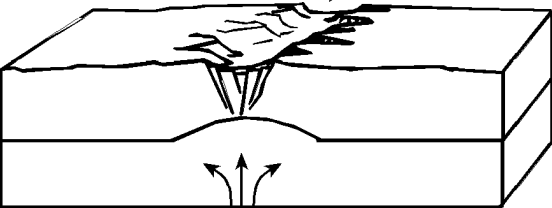
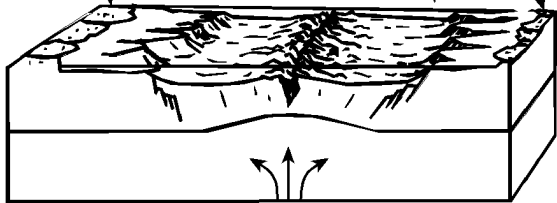
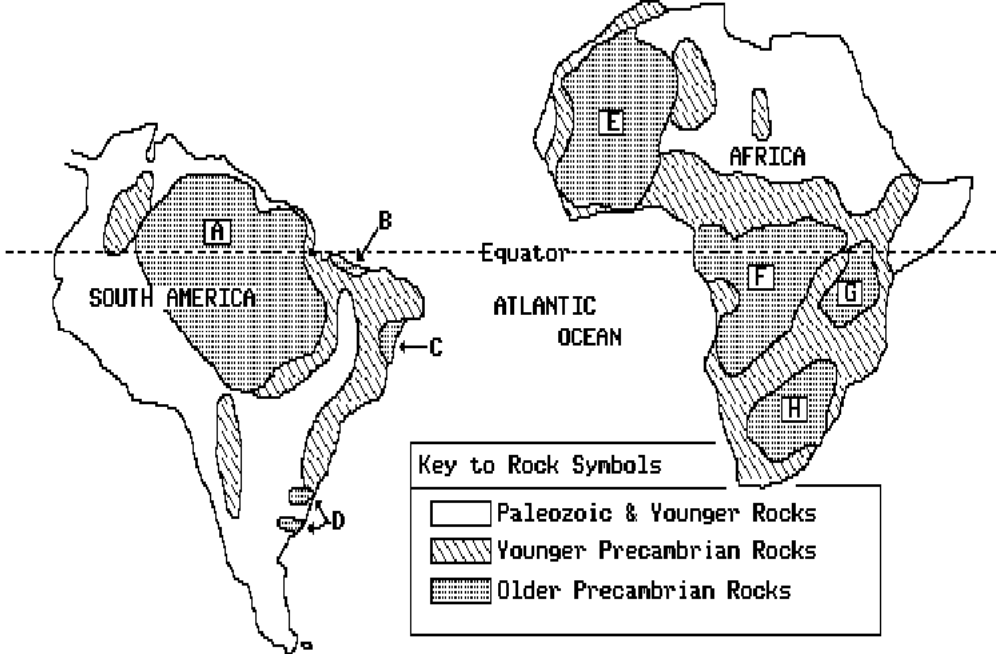


DIAGRAM II

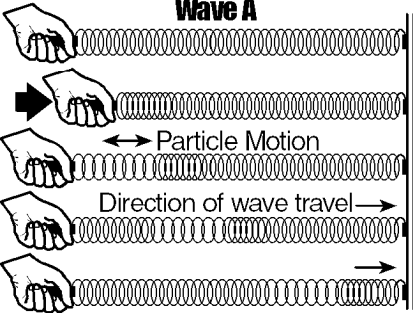
Ocean , Shore

Shore

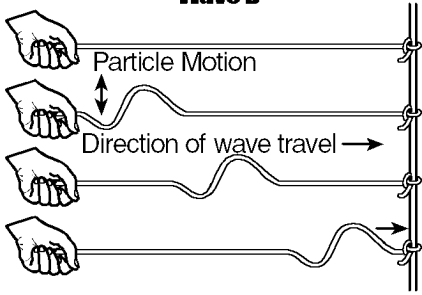




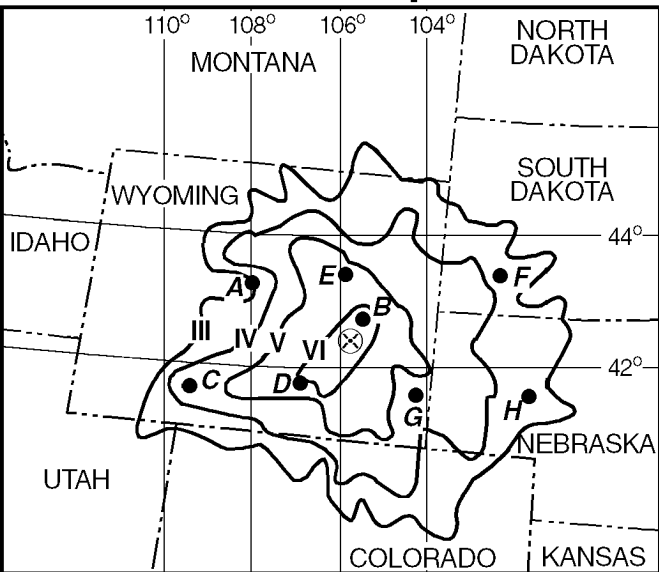
Wave A



Wave B



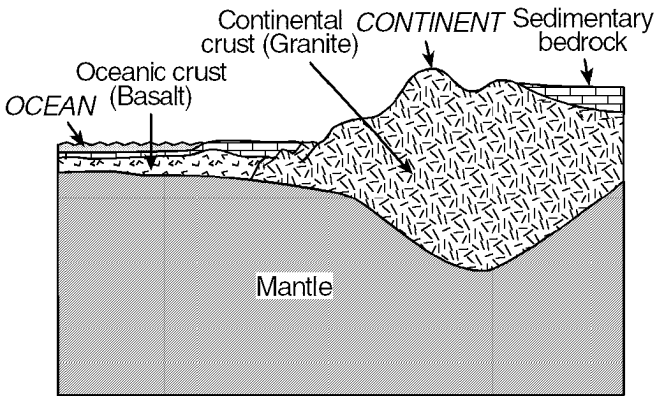
Isoseismal Map



Modified Mercalli Intensity Scale

Intensity Level	Effect
<i>I</i>	Felt only by a few people
<i>II</i>	Felt indoors by a few people, especially on the upper floors of buildings.
<i>III</i>	Vibration like that of a passing heavy truck: heavy objects swing
<i>IV</i>	Dishes, windows, and doors rattle
<i>V</i>	Dishes and windows may break; felt by nearly everyone
<i>VI</i>	Felt by all; heavy furniture may move

⊗ Epicenter - - - - State Boundary



ACADIAN MOUNTAIN-BUILDING

