

## “Get to Know Tectonic Plates”

**Directions:** Use the attached tectonic map to answer the questions below.

1. Highlight the NAMES of each of the following:
  - Trenches
  - Hot Spots
  - Ocean Ridges
2. Color each of the hot spot locations **RED**.
3. Fill in the **names of the hot spots** at each of the following locations:
  - In the Continental United States \_\_\_\_\_
  - On the Pacific Plate \_\_\_\_\_
  - On the Nazca Plate \_\_\_\_\_
  - On the Eurasian Plate \_\_\_\_\_
  - On the African Plate \_\_\_\_\_
4. What do the arrows on the tectonic map indicate? \_\_\_\_\_
5. Look at the arrows along the **trenches** at any two adjacent plates. Which way are the plates moving? Toward or Away from each other? \_\_\_\_\_
6. What kind of boundary is located at a trench? \_\_\_\_\_
7. Look at the arrows along the **ridges** at any two adjacent plates. Which way are the plates moving? Toward or Away from each other? \_\_\_\_\_
8. What kind of boundary is located at a ridge? \_\_\_\_\_
9. Find the San Andreas Fault. What type of boundary is this? \_\_\_\_\_ In which State is it located? \_\_\_\_\_
10. State the direction of movement of the Pacific Plate and the North American Plate at the San Andreas Fault.
  - Pacific Plate \_\_\_\_\_
  - North American Plate \_\_\_\_\_

11. Name the 2 plates located on either side of the following trenches:

- Aleutian Trench \_\_\_\_\_
- Tonga Trench \_\_\_\_\_

12. Name the two plates located on either side of each of the following ridges:

- Mid-Atlantic Ridge \_\_\_\_\_
- East Pacific Ridge \_\_\_\_\_
- Southeast Indian Ridge \_\_\_\_\_

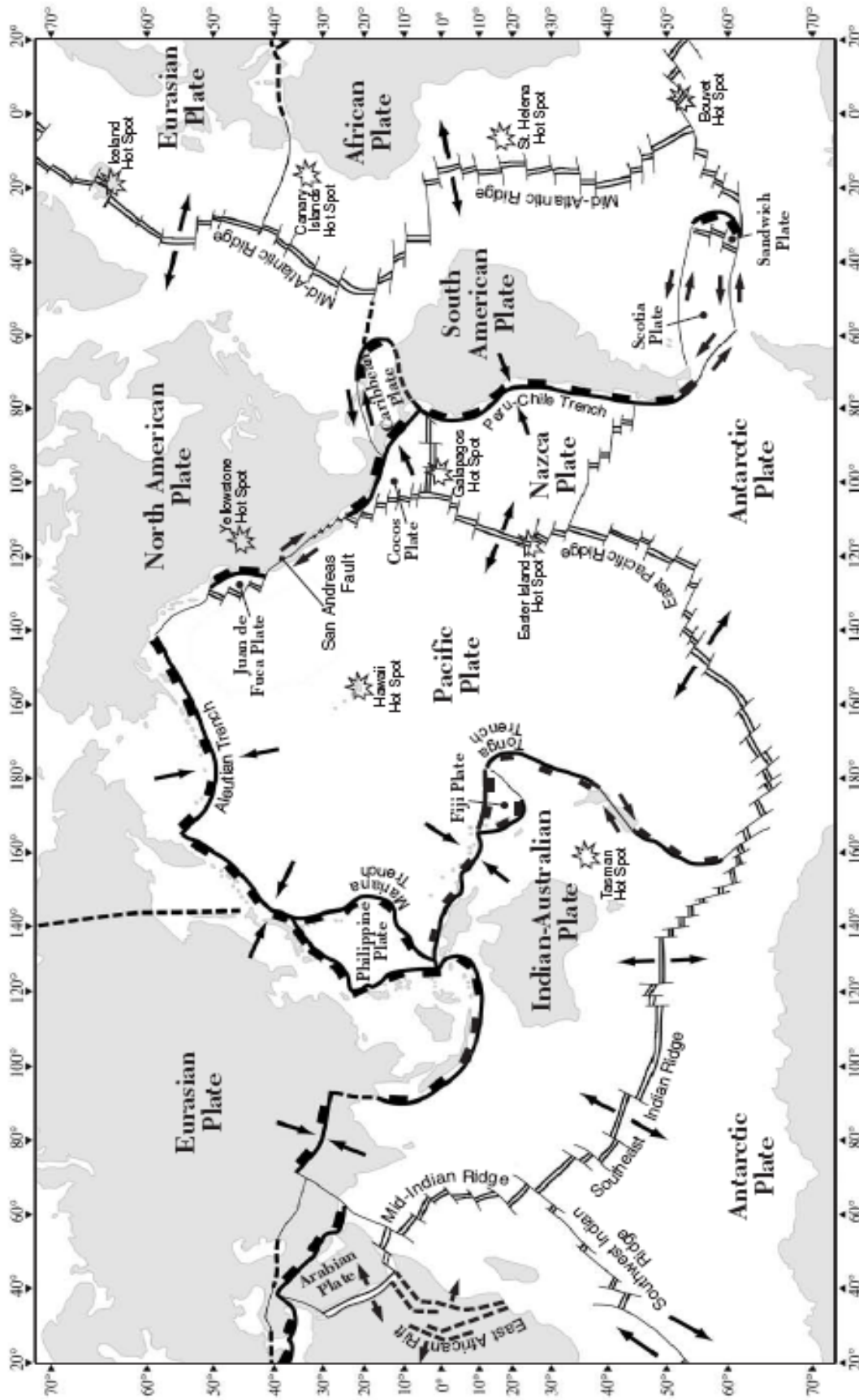
13. In the boxes below draw the symbols for each of the following boundaries:

<b>Convergent Plate Boundary</b>	<b>Complex or Uncertain Boundary</b>
<b>Divergent Plate Boundary</b>	<b>Transform Plate Boundary</b>







14. What is the Latitude and Longitude of the following locations (include directions)?

	<b>Latitude</b>	<b>Longitude</b>
Galapagos	_____	_____
Yellowstone	_____	_____
Tasman Hotspot	_____	_____
St. Helens	_____	_____

# Tectonic Plates



## Key

-  Relative motion at plate boundary
-  Transform plate boundary (transform fault)
-  Divergent plate boundary (usually broken by transform faults along mid-ocean ridges)
-  Convergent plate boundary (subduction zone)
-  Complex or uncertain plate boundary
-  Mantle hot spot

NOTE: Not all mantle hot spots, plates, and boundaries are shown.