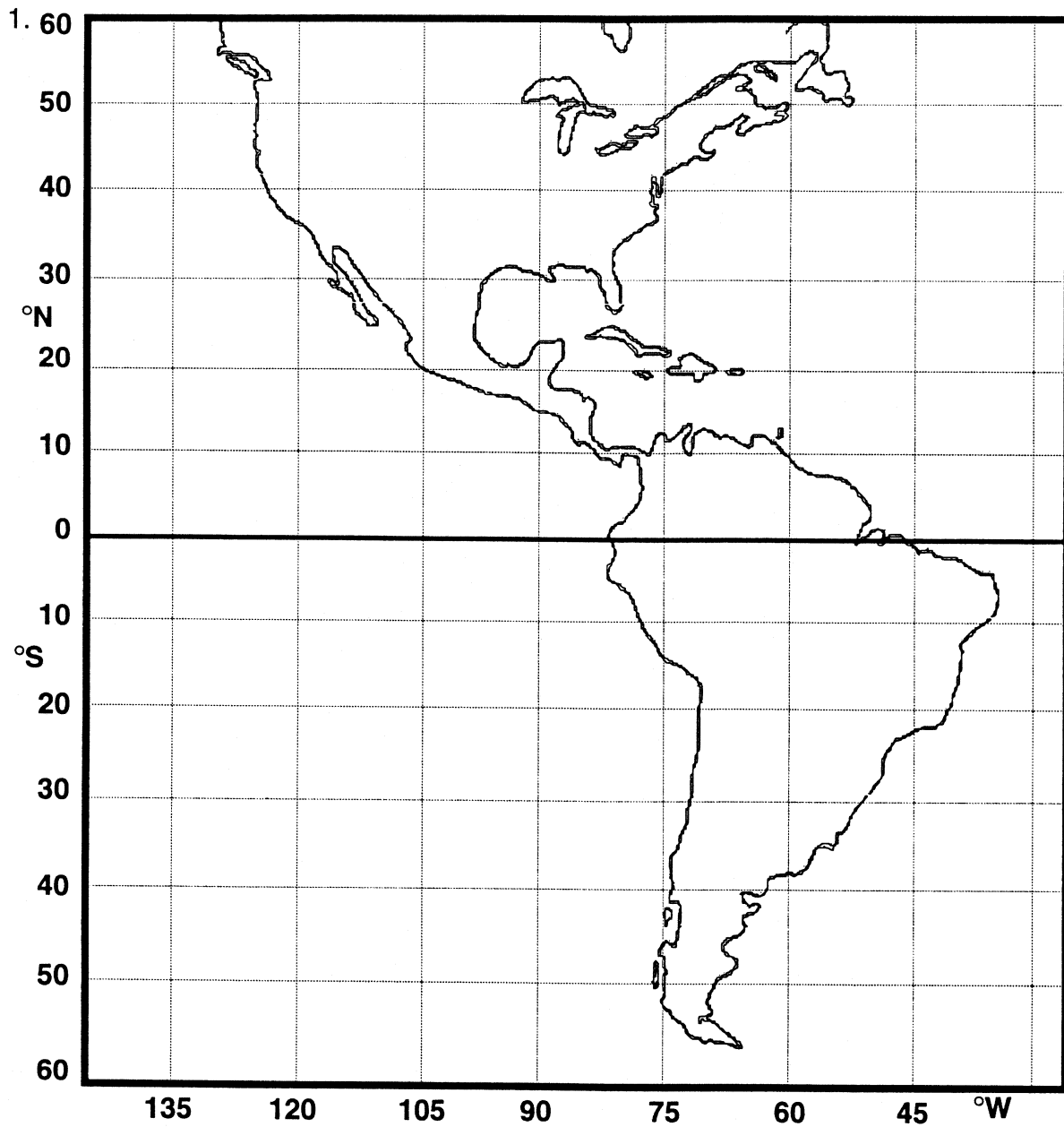


NAME:

CLASS:

DATE:

STATION 4 TITLE: \_\_\_\_\_



2. \_\_\_\_\_

\_\_\_\_\_

3. \_\_\_\_\_

\_\_\_\_\_

4. \_\_\_\_\_

\_\_\_\_\_

## DATA SHEET

### Earthquakes

	Latitude	Longitude
1.	47° S	71° W
2.	2° N	79° W
3.	38° S	74° W
4.	14° S	73° W
5.	38° N	123° W
6.	34° N	118° W
7.	15° N	89° W
8.	12° N	86° W
9.	13° N	86° W
10.	10° N	84° W
11.	1° N	82° W
12.	18° N	77° W
13.	9° S	76° W
14.	31° S	69° W
15.	2° S	78° W
16.	30° N	110° W
17.	55° N	130° W
18.	50° N	125° W
19.	40° N	123° W
20.	20° N	105° W

### Volcanoes

	Latitude	Longitude
1.	0.1° S	77.7° W
2.	16.2° S	70.8° W
3.	34.1° S	69.9° W
4.	52.3° S	73.4° W
5.	46.9° N	121.8° W
6.	40.5° N	121.3° W
7.	27.5° N	112.7° W
8.	19.5° N	102.1° W
9.	10.2° N	84.2° W
10.	46.7° N	121.7° W

1. By using latitude and longitude, plot the earthquakes listed on the Station 4 Data Sheet as small red "x's" on the map provided. Some earthquakes have already been plotted. Use the same method to plot the locations of volcanoes as small orange triangles.
2. After plotting the earthquakes and volcanoes, look for patterns on your map. Are the features randomly scattered, or does a pattern exist?
3. What could be the cause of any patterns?
4. Use the green colored pencil to color the zone called the Peru-Chile Trench just west of South America. Why is a trench located there?

