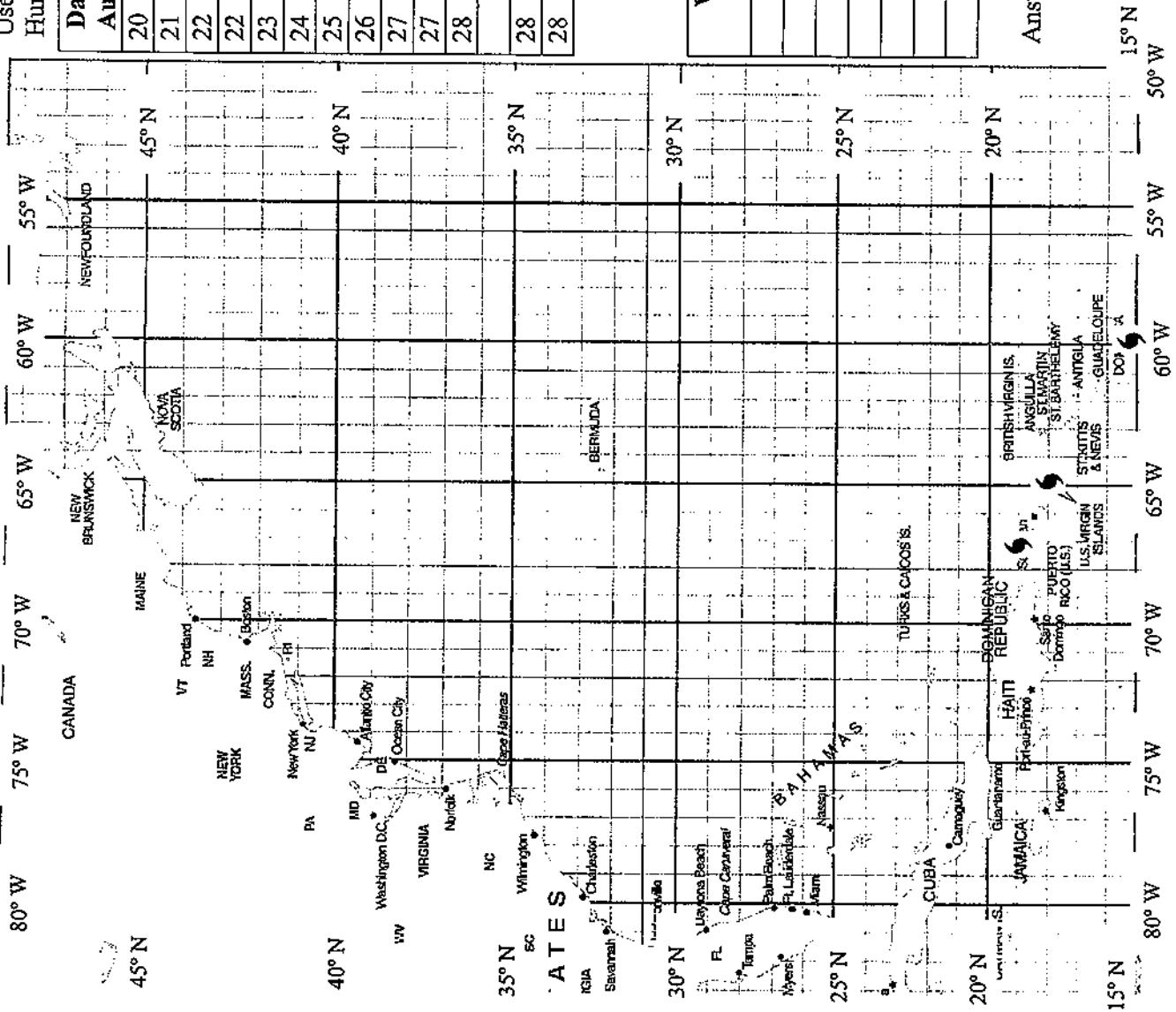


Lab Number: _____ Name: _____

Date: _____

Period: _____

Use the data to the right of the chart to plot the path of Hurricane Irene. Three plots have been done for you.



Date (time) August, '11	Category*	Latitude °N	Longitude °W
20 (7 pm)	TS	15	60
21 (8 pm)		18	65
22 (5 am)	H1	19	67
22 (8 pm)	H2	20	69
23 (8 pm)		21	72
24 (8 am)	H3	22	73
25 (2 am)		24	76
26 (5 am)	H2	29	77
27 (3 am)	H1	34	76.5
27 (5 pm)		36	76
28 (8 am)		40	74
(9 am)	TS	New York City	
28 (11 am)		41	74
28 (11 pm)		45	71

*Category: determined by wind speed.

Wind speed (mph)	Category
< 38	Tropical Depression
39-73	Tropical Storm
74-95	I
96-110	II
111-130	III
131-155	IV
>155	V

Answer the questions on the back of this sheet.

1. Hurricane Irene caused quite a bit of damage along its path through the Caribbean and the eastern United States. In regards to a hurricane, explain how water, not wind, causes loss of lives and destruction of property.

2. Due to the new moon phase, Long Island was having high tide when Hurricane Irene hit in the area. How does high tide affect the coastal region of Long Island?

3. What preparations did your family take before Hurricane Irene hit Long Island? If another hurricane was to approach Long Island, what additional precautions would you do to prepare?

4. I am sure you are all very perceptive of your surroundings. Describe the neighborhood damage you observed by Hurricane Irene.

5. On August 23rd, at 2:07 PM, Washington D.C. had an earthquake of 5.8 on the Richter Scale. I felt it here on Long Island. Did you feel it? What were you doing?
