

Name \_\_\_\_\_ HR \_\_\_\_\_ Date \_\_\_\_\_

## Hurricane Isabel 2003

### Directions:

- Use the data from the following chart to answer questions about Hurricane Isabel.
- Plot the storm onto your tracking map using the coordinates below.
- Round to the nearest 0.5° when plotting coordinates.

Date	Coordinates	Wind (mph)	Pressure (mb)	Storm Type
9/06/03	14.0° N 34.0° W	40	1005	Tropical Storm
9/07/03	14.5° N 37.7° W	75	987	Category 1
9/08/03	16.1° N 40.2° W	90	979	Category 1
9/08/03	16.9° N 41.4° W	105	970	Category 2
9/08/03	17.9° N 43.7° W	125	952	Category 3
9/09/03	20.3° N 47.8° W	135	948	Category 4
9/10/03	21.2° N 51.9° W	140	942	Category 4
9/11/03	21.6° N 55.3° W	160	921	Category 5
9/12/03	21.8° N 58.6° W	160	920	Category 5
9/13/03	22.6° N 62.6° W	160	932	Category 5
9/14/03	24.1° N 67.4° W	155	933	Category 4
9/15/03	25.6° N 70.0° W	125	949	Category 3
9/16/03	27.8° N 71.4° W	105	959	Category 2
9/17/03	31.1° N 73.3° W	105	955	Category 2
9/18/03	36.2° N 77.1° W	90	960	Category 1
9/19/03	42.0° N 80.7° W	35	997	Tropical Depression

Source of data: <http://www.wunderground.com/hurricane/at200313.asp>

**Answer the following questions:**

1. On what day did hurricane Isabel become a tropical storm? \_\_\_\_\_  
A tropical Depression? \_\_\_\_\_
2. When did hurricane Isabel become a Category 5 hurricane? \_\_\_\_\_  
What was the wind speed? \_\_\_\_\_ mph.  
What was the barometric pressure? \_\_\_\_\_ mb.
3. When did Isabel have the fastest wind? \_\_\_\_\_ with \_\_\_\_\_ mph.  
The slowest wind? \_\_\_\_\_ with \_\_\_\_\_ mph.
4. What was the highest barometric pressure reading? \_\_\_\_\_ mb.  
Lowest barometric pressure? \_\_\_\_\_ mb.
5. Explain the relationship between barometric pressure and hurricane intensity (storm type).  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
6. On what day was Isabel classified as a category 1, 2, and 3? \_\_\_\_\_  
Why do you think it was reclassified? What happened? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. Look at the coordinates, how many degrees **North** did hurricane Isabel travel from start to finish? From \_\_\_\_\_ ° N to \_\_\_\_\_ ° N = \_\_\_\_\_ °.  
How many degrees **West** from start to finish?  
From \_\_\_\_\_ ° W to \_\_\_\_\_ ° W = \_\_\_\_\_ °.

**Answer these questions after you have plotted Isabel on your tracking map:**

1. Did hurricane Isabel hit Florida? Yes or No
2. Circle the state where Isabel made landfall:  
Florida      North Carolina      Texas      New Jersey
3. Where did hurricane Isabel complete her journey?  
Illinois      Iowa      Maine      Great Lakes      Georgia