

A light blue world map is centered in the background of the page. The title 'LESSON 25' is printed in a dark blue, sans-serif font, centered over the map. Below it, the main title 'TRACKING A HURRICANE' is written in a larger, bold, teal-colored sans-serif font, also centered over the map.

LESSON 25

TRACKING A HURRICANE

Hurricanes are intense storms that can create immense destruction from the winds and storm surges that have the potential to create massive flooding. In this activity, you'll track how Hurricane Katrina moved across the Atlantic ocean: it began as a low-pressure tropical depression, grew into a tropical storm, and developed into a hurricane. You'll then see how the hurricane quickly dissipated as it made landfall.

Supplies

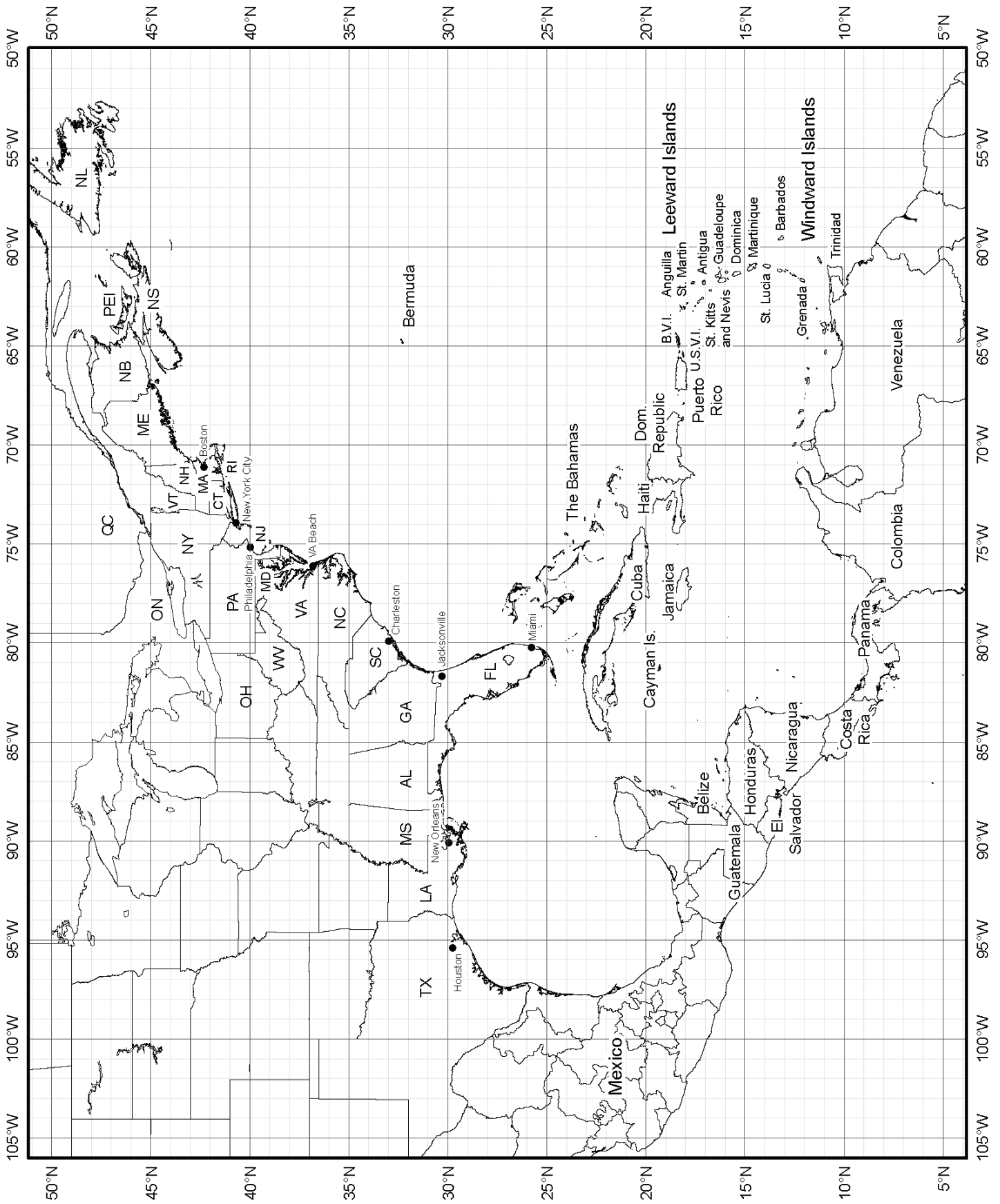
✎ Colored pencils: green, yellow, and red

Instructions

1. Use the latitude and longitude coordinates found on the included spreadsheet to chart the movement of Hurricane Katrina on the provided map.
2. When the storm is classified as a tropical depression or extratropical storm, use the color green to indicate its location.
3. When the storm is classified as a tropical storm, use the color yellow to indicate its location.
4. When the storm is classified as a hurricane, use the color red to indicate its location and what category it was.

Hurricane Katrina Tracking Statistics

| Time (GMT) | Date | Latitude | Longitude | Wind (mph) | Pressure | Storm Type |
|------------|---------|----------|-----------|------------|----------|----------------------|
| 8 | 8/24/05 | 23.1 N | 75.1 W | 35 | 1008 | Tropical Depression |
| 0 | 8/24/05 | 23.4 N | 75.7 W | 35 | 1007 | Tropical Depression |
| 6 | 8/24/05 | 23.8 N | 76.2 W | 35 | 1007 | Tropical Depression |
| 12 | 8/24/05 | 24.5 N | 76.5 W | 40 | 1006 | Tropical Storm |
| 18 | 8/24/05 | 25.4 N | 76.9 W | 45 | 1003 | Tropical Storm |
| 0 | 8/25/05 | 26.0 N | 77.7 W | 50 | 1000 | Tropical Storm |
| 6 | 8/25/05 | 26.1 N | 78.4 W | 60 | 997 | Tropical Storm |
| 12 | 8/25/05 | 26.2 N | 79.0 W | 65 | 994 | Tropical Storm |
| 18 | 8/25/05 | 26.2 N | 79.6 W | 70 | 988 | Tropical Storm |
| 0 | 8/26/05 | 25.9 N | 80.3 W | 80 | 983 | Category 1 Hurricane |
| 6 | 8/26/05 | 25.4 N | 81.3 W | 75 | 987 | Category 1 Hurricane |
| 12 | 8/26/05 | 25.1 N | 82.0 W | 85 | 979 | Category 1 Hurricane |
| 18 | 8/26/05 | 24.9 N | 82.6 W | 100 | 968 | Category 2 Hurricane |
| 0 | 8/27/05 | 24.6 N | 83.3 W | 105 | 959 | Category 2 Hurricane |
| 6 | 8/27/05 | 24.4 N | 84.0 W | 110 | 950 | Category 2 Hurricane |
| 12 | 8/27/05 | 24.4 N | 84.7 W | 115 | 942 | Category 3 Hurricane |
| 18 | 8/27/05 | 24.5 N | 85.3 W | 115 | 948 | Category 3 Hurricane |
| 0 | 8/28/05 | 24.8 N | 85.9 W | 115 | 941 | Category 3 Hurricane |
| 6 | 8/28/05 | 25.2 N | 86.7 W | 145 | 930 | Category 4 Hurricane |
| 12 | 8/28/05 | 25.7 N | 87.7 W | 165 | 909 | Category 5 Hurricane |
| 18 | 8/28/05 | 26.2 N | 88.6 W | 175 | 902 | Category 5 Hurricane |
| 0 | 8/29/05 | 27.2 N | 89.2 W | 160 | 905 | Category 5 Hurricane |
| 6 | 8/29/05 | 28.2 N | 89.6 W | 145 | 913 | Category 4 Hurricane |
| 12 | 8/29/05 | 29.5 N | 89.6 W | 125 | 923 | Category 3 Hurricane |
| 18 | 8/29/05 | 31.1 N | 89.6 W | 90 | 948 | Category 1 Hurricane |
| 0 | 8/30/05 | 32.6 N | 89.1 W | 60 | 961 | Tropical Storm |
| 6 | 8/30/05 | 34.1 N | 88.6 W | 45 | 978 | Tropical Storm |
| 12 | 8/30/05 | 35.6 N | 88.0 W | 35 | 985 | Tropical Depression |
| 18 | 8/30/05 | 37.0 N | 87.0 W | 35 | 990 | Tropical Depression |
| 0 | 8/31/05 | 38.6 N | 85.3 W | 35 | 994 | Extratropical Storm |
| 6 | 8/31/05 | 40.1 N | 82.9 W | 30 | 996 | Extratropical Storm |



Questions

1. What area of the United States was most impacted by this storm system?

2. Why does a hurricane quickly decrease in intensity after making landfall?
