**Procedure**

1. Using the data table provided with the coordinates for the storms and the wind speeds, plot each point on the map corresponding to the date in September.

For example, if the coordinates are 38° N and 74° W, find the latitude line that corresponds to 38° North, find the longitude line that corresponds to 74° West, and follow the lines toward each other until they intersect. This will be the coordinate point for the location of the storm at the given date and time.

2. Classify the storm for each reading according to wind speed. Classify the following stages as necessary:

Tropical depression—cyclone-type storms with wind speeds of 38 mph or less.

Tropical storm—cyclone-type storms with wind speeds of 39-73 mph.

Use the Saffir-Simpson Hurricane Wind Scale below for all hurricane categories:

**Saffir-Simpson Hurricane Wind Scale**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Category** | **Pressure (mb)** | **Wind Speed (mph)** | **Possible Storm Surge (ft.)** | **Damage** |
| **1** | 980 or less | 74-95 | 4-5 | Minimal |
| **2** | 965-979 | 96-110 | 6-8 | Moderate |
| **3** | 945-964 | 111-130 | 9-12 | Extensive |
| **4** | 920-944 | 131-155 | 13-18 | Extreme |
| **5** | Less than 920 | Greater than 155 | More than 18 | Catastrophic |

3.  If the storm develops from a tropical depression into a tropical storm, assign the appropriate name from the National Hurricane Center table. Write the name of the storm and the date that it would have been named on the blank below. **Remember:** The storm is not named until it reaches tropical storm status.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **2008** | **2009** | **2010** | **2011** | **2012** | **2013** |
| Arthur Bertha Cristobal Dolly Edouard Fay Gustav Hanna Ike Josephine Kyle Laura Marco Nana Omar Paloma Rene Sally Teddy Vicky Wilfred | Ana Bill Claudette Danny Erika Fred Grace Henri Ida Joaquin Kate Larry Mindy Nicholas Odette Peter Rose Sam Teresa Victor Wanda | Alex Bonnie Colin Danielle Earl Fiona Gaston Hermine Igor Julia Karl Lisa Matthew Nicole Otto Paula Richard Shary Tomas Virginie Walter | Arlene Bret Cindy Don Emily Franklin Gert Harvey Irene Jose Katia Lee Maria Nate Ophelia Philippe Rina Sean Tammy Vince Whitney | Alberto Beryl Chris Debby Ernesto Florence Gordon Helene Isaac Joyce Kirk Leslie Michael Nadine Oscar Patty Rafael Sandy Tony Valerie William | Andrea Barry Chantal Dorian Erin Fernand Gabrielle Humberto Ingrid Jerry Karen Lorenzo Melissa Nestor Olga Pablo Rebekah Sebastien Tanya Van Wendy |