

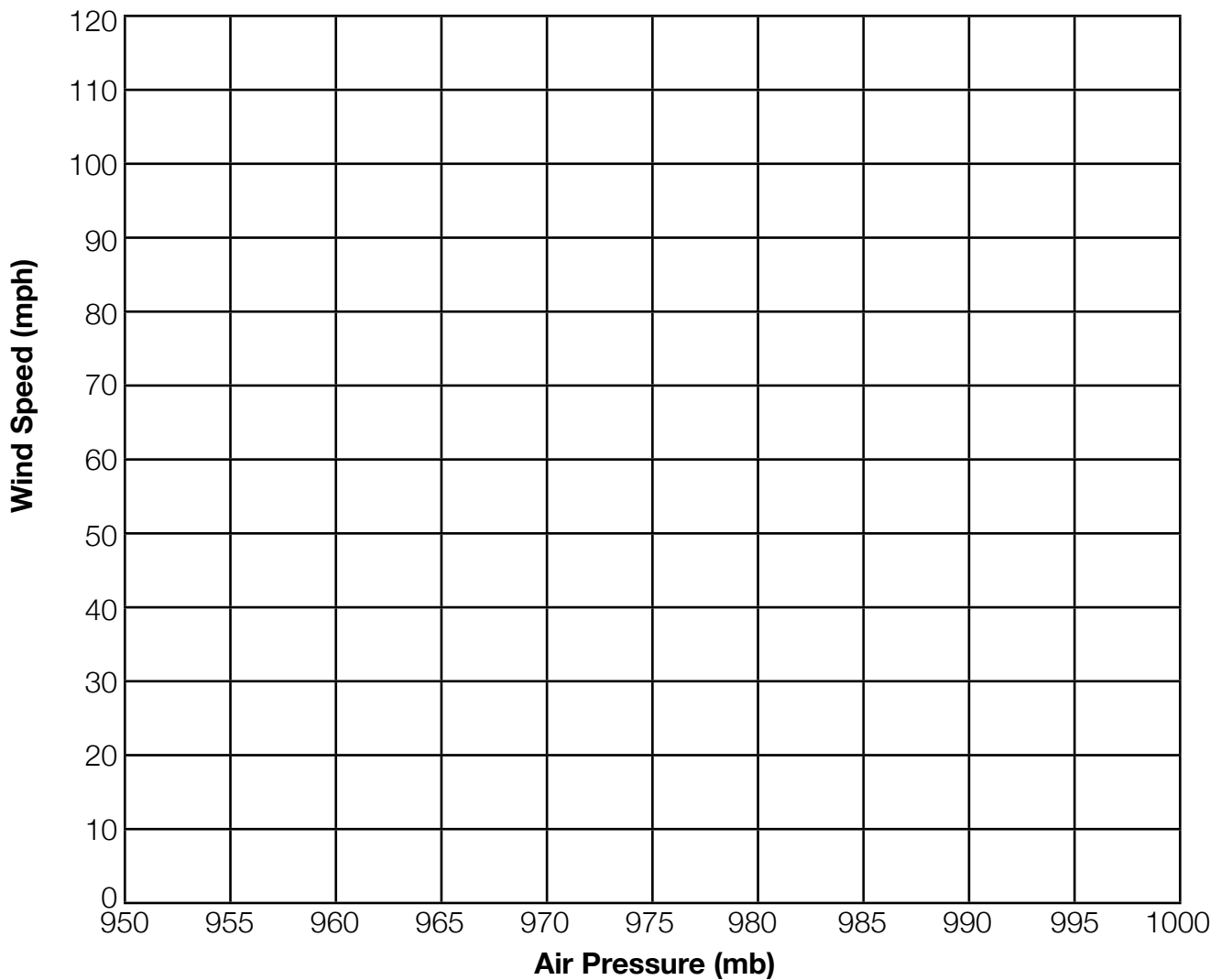
NAME: _____

PERIOD: _____ LAB #: _____

LAB: TRACKING HURRICANE SANDY

Launch the **“Hurricane HD”** app. Tap on the hurricane symbol in the top left corner. Choose **“Atlantic,”** and then select **“Sandy.”** Under **“Map Controls,”** tap the left arrow to get to October 23 at 5:00 pm. We will begin plotting Sandy’s movement from this day. Use the app to gather the coordinates of the storm at each of the times in the table below. Plot a point, labeled with the appropriate letter, on your map to show the path that Sandy took over this period of time. As you go, also record the air pressure, wind speed, and storm type (tropical depression, tropical storm, category 1, 2, 3, etc) in the table below. When you have finished mapping Sandy’s movement, plot the wind speed and air pressure on the graph provided.

POINT	DATE/TIME	AIR PRESSURE	WIND SPEED	STORM TYPE
A	Oct. 23 5:00 pm			
B	Oct. 24 5:00 pm			
C	Oct. 25 5:00 pm			
D	Oct. 26 5:00 pm			
E	Oct. 27 5:00 pm			
F	Oct. 28 5:00 pm			
G	Oct. 29 5:00 pm			
H	Oct. 30 5:00 pm			



CONCLUSION QUESTIONS

1. What is the relationship between air pressure and wind speed?

2. If you were in a boat as Hurricane Sandy passed overhead on October 28, at what altitude would Polaris appear in the sky from your location? _____
3. Even cities as far north as Plattsburgh, NY were affected by Hurricane Sandy. Use page 3 of your ESRT to determine the coordinates of Plattsburgh to the nearest minute. _____
4. Had Hurricane Sandy passed into the southern hemisphere, would observers be able to use Polaris to determine their latitude? Explain. _____
5. Explain how the spinning motion of a hurricane is evidence that the Earth rotates. What is this phenomenon called? _____
6. Hurricane Sandy passed over 75°W longitude on October 27 at 5:00 pm. What was the time on the Prime Meridian when this occurred? _____
7. Look at the path of Hurricane Sandy. Find this general location on the Surface Ocean Currents map on page 4 of your ESRT. Name one ocean current that affected this storm. _____