

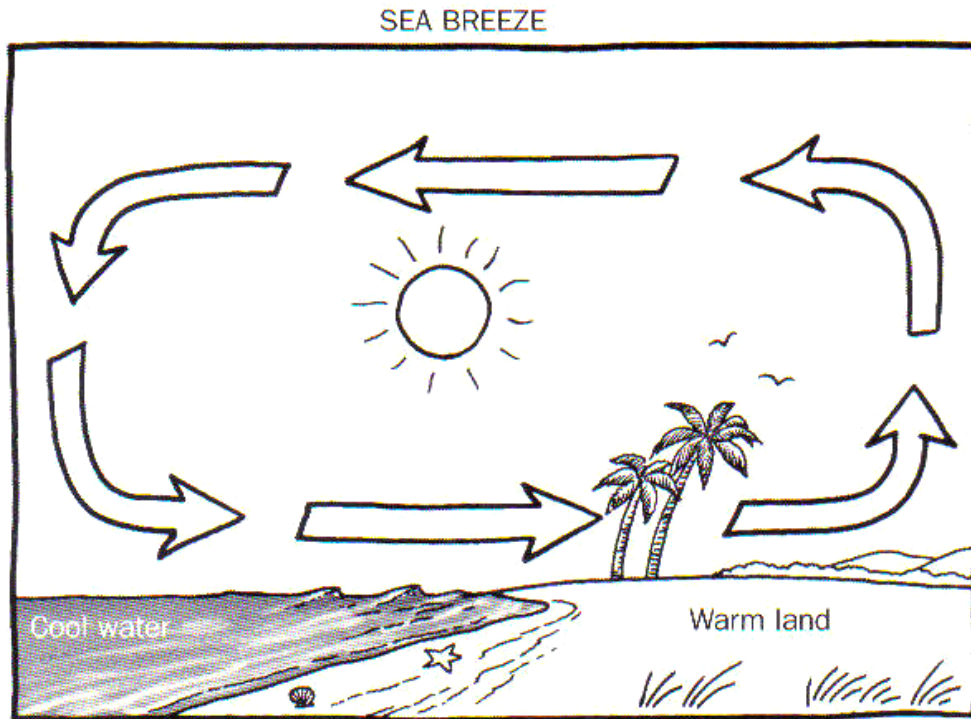
MiSP Weather — Wind Speed and Direction Assessment L1

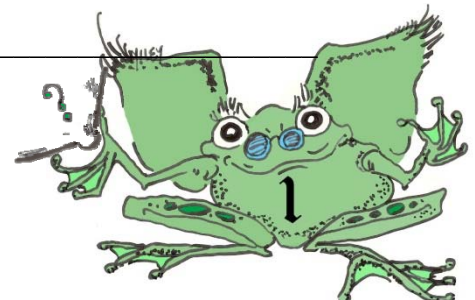
Name _____

Date _____

1. On the lines below the diagram, explain what a sea breeze is and what makes it happen. You may label and refer to the diagram. You should use the following words and phrases in your explanation (some may be used more than once!):

temperature high pressure low pressure warm (or hot) cool (or cold)

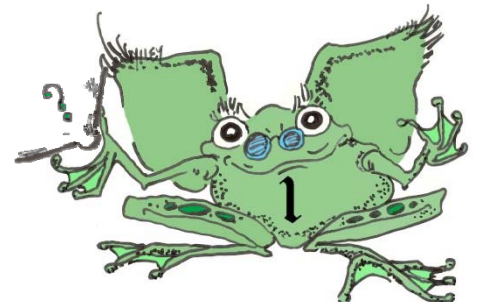
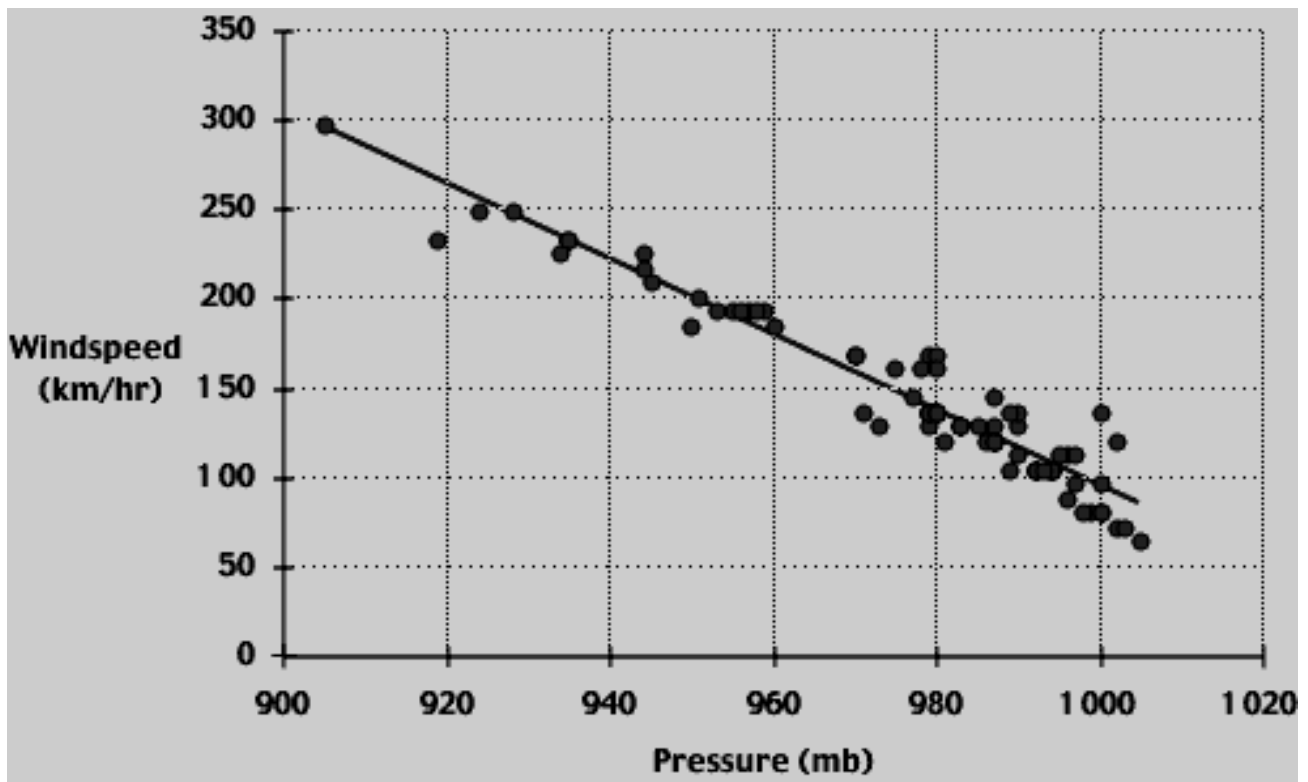




2-5 True or false statements about wind, hurricanes, and tornadoes:

2. _____ Hurricanes form over COOL water and get weaker over WARM water.
3. _____ The LOWER the central pressure of a hurricane, the GREATER the hurricane's wind speed.
4. _____ Wind blows from HIGH pressure places to LOW pressure places.
5. _____ The GREATER the difference between the air pressure inside a tornado and the air pressure outside the tornado, the GREATER the wind speed.

Refer to the graph below to answer questions 6–7 (L1), 6–9 (L2), and 6–11 (L3). The graph shows the relationship between central pressure and sustained wind speed for a number of tropical low pressure systems.



6. According to the best-fit line on the graph above, what would the wind speed be if the pressure was 910 mb?

7. The minimum wind speed that must exist in order for a tropical storm to be called a hurricane is 119 km/hr. Using the best-fit line, answer the question, What central pressure would be needed to produce hurricane winds of 119 km/hr?

