RIVERS 2 LAKE

Name:_____

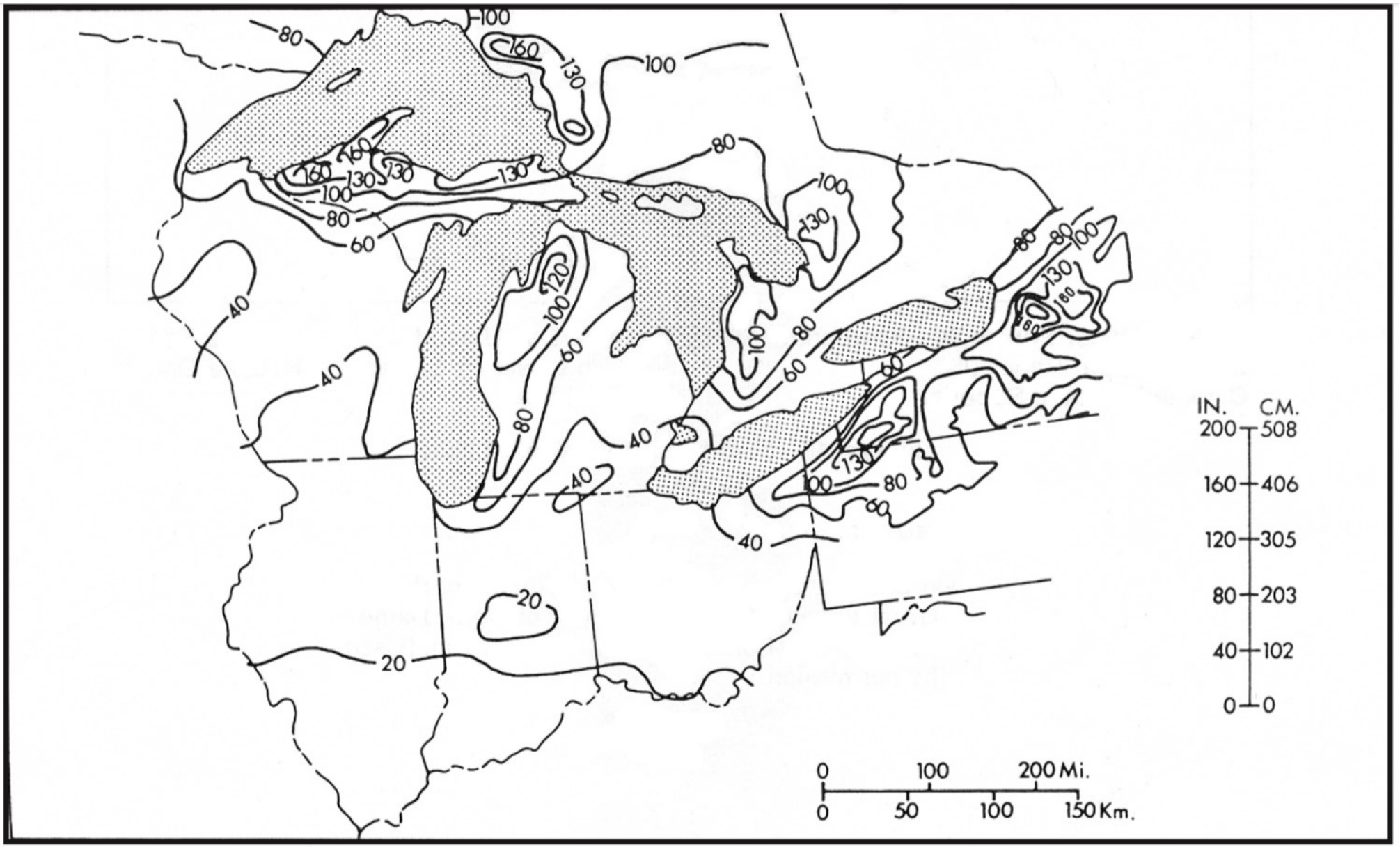
Where Did All This Snow Come From?

Part One

1. What is going to happen to the snow in the cup?

2. Draw a diagram of what is going to happen to the snow in the cup:

Color in the Isoline of the map form 100 inches to 160 inches using colored pencils ranging from dark to light. Dark for the deeper snow, light for the shallower snow.



Name:_____

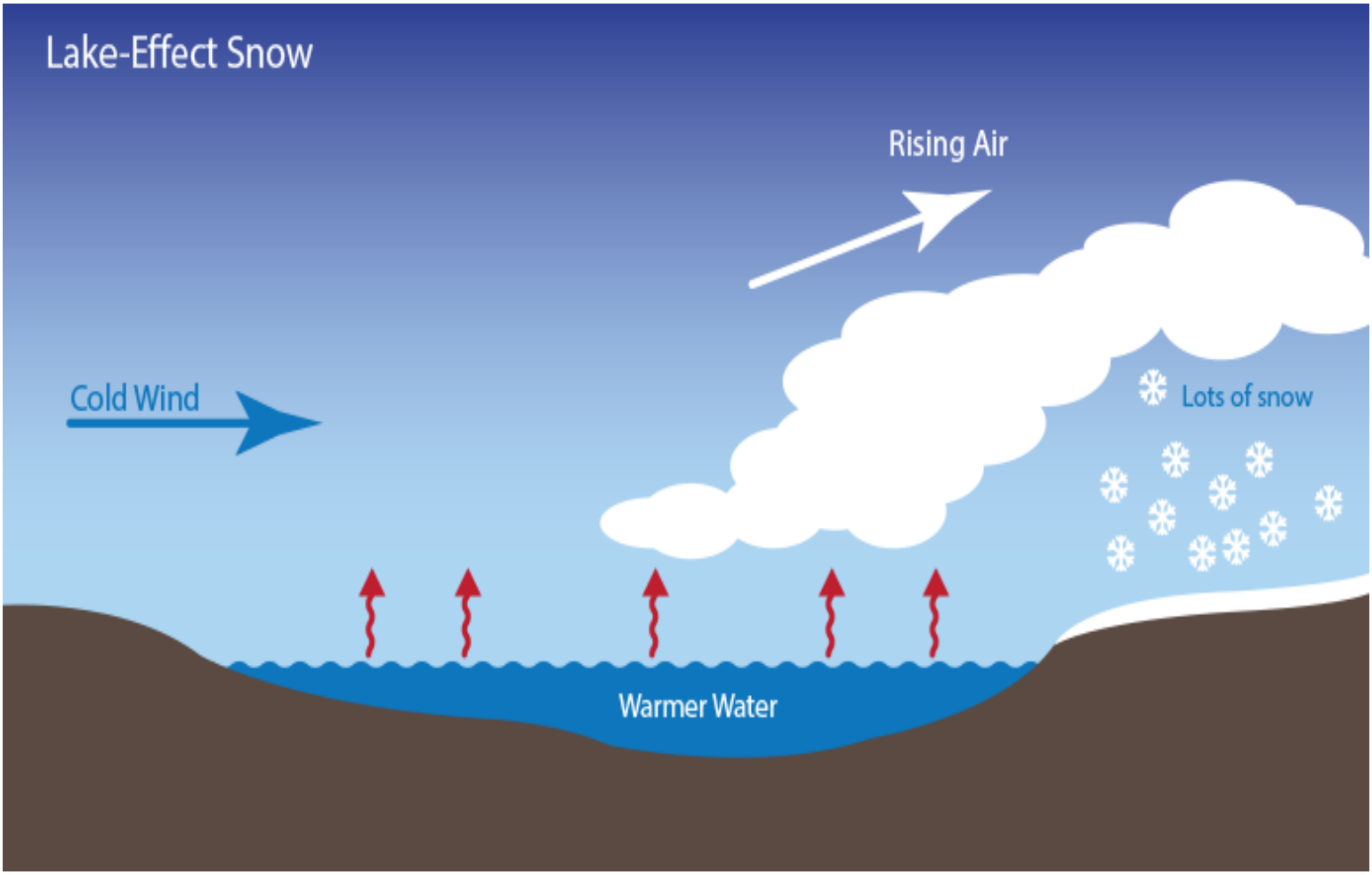
Where Did All This Snow Come From?

Part Two

1. What is going to happened to the warm water in the cup when you took it out into the cold air?

2. Draw a picture of what is going to happen to the water in the cup.

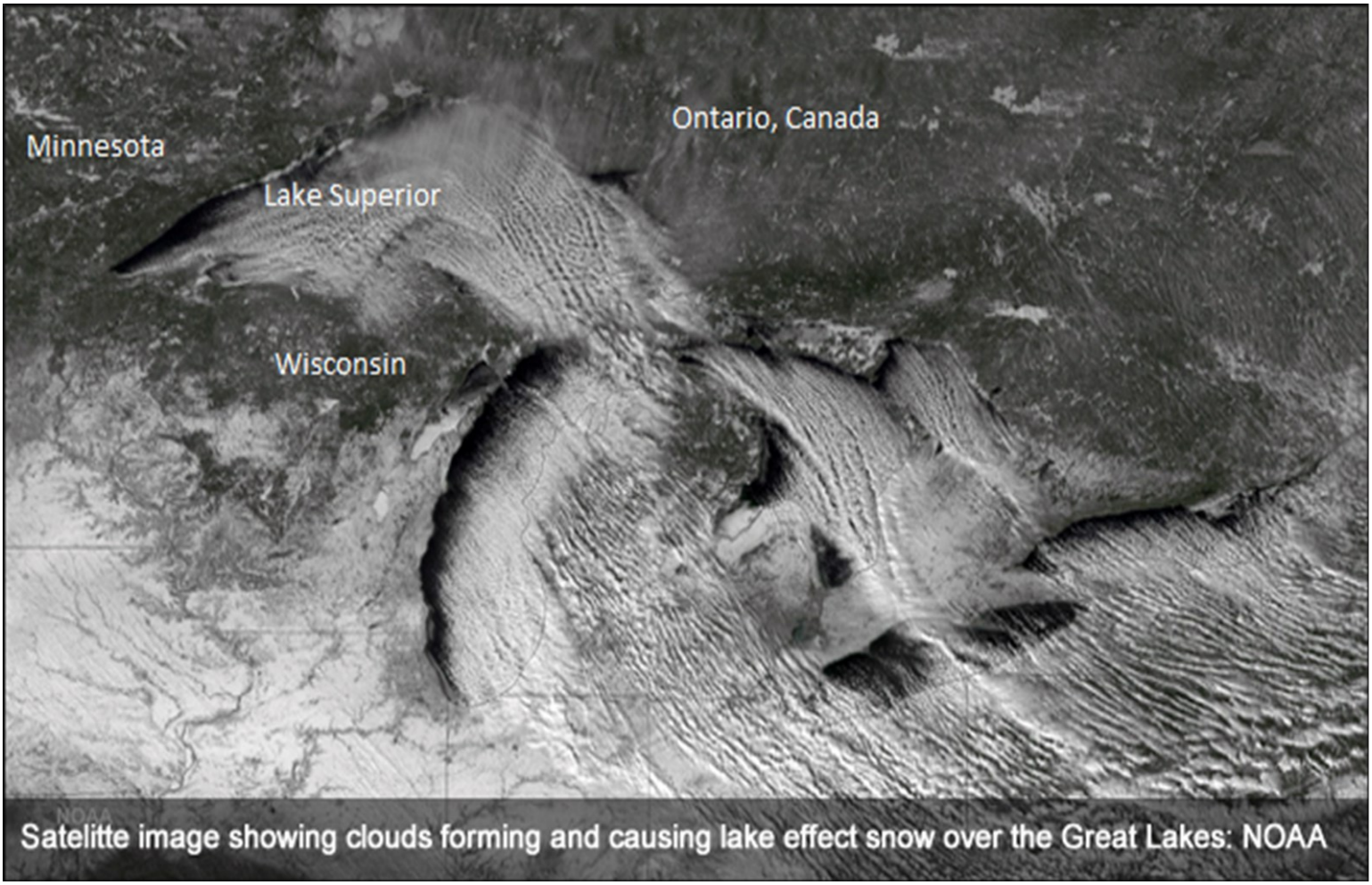
Work on the Questions on the next page in Small Groups



Examine the lake effect snow diagram above and answer the following questions.

1. What is happening in this diagram?

2. How does the water in the cup you took outside look like what is happening in the lake effect diagram?



Satelitte image showing clouds forming and causing lake effect snow over the Great Lakes: NOAA

Look back at the lake effect snow diagram to answer the following questions:

1. What is happening in this satellite image of the Great Lakes and why is it happening?

2. What is lake effect snow?

3. What causes it?

4. Look back at the map you colored from part one. Write a one sentence explanation about why some areas have more snow than others?

Answer the following questions YES or NO based on the conditions outside today

Snow Effect Questions	YES or NO
Is the lake unfrozen?	
Is the water temperature of the lake warmer then the air temperature?	
Is the average windspeed between 10 mph and 45 mph?	
Is the wind blowing over a large section (fetch) of the Lake Superior	
Are there areas of high elevation surrounding the lake?	
Is the average air temperature below freezing?	

The more questions that you answered YES, the greater the chance of heavy lake effect snow!!