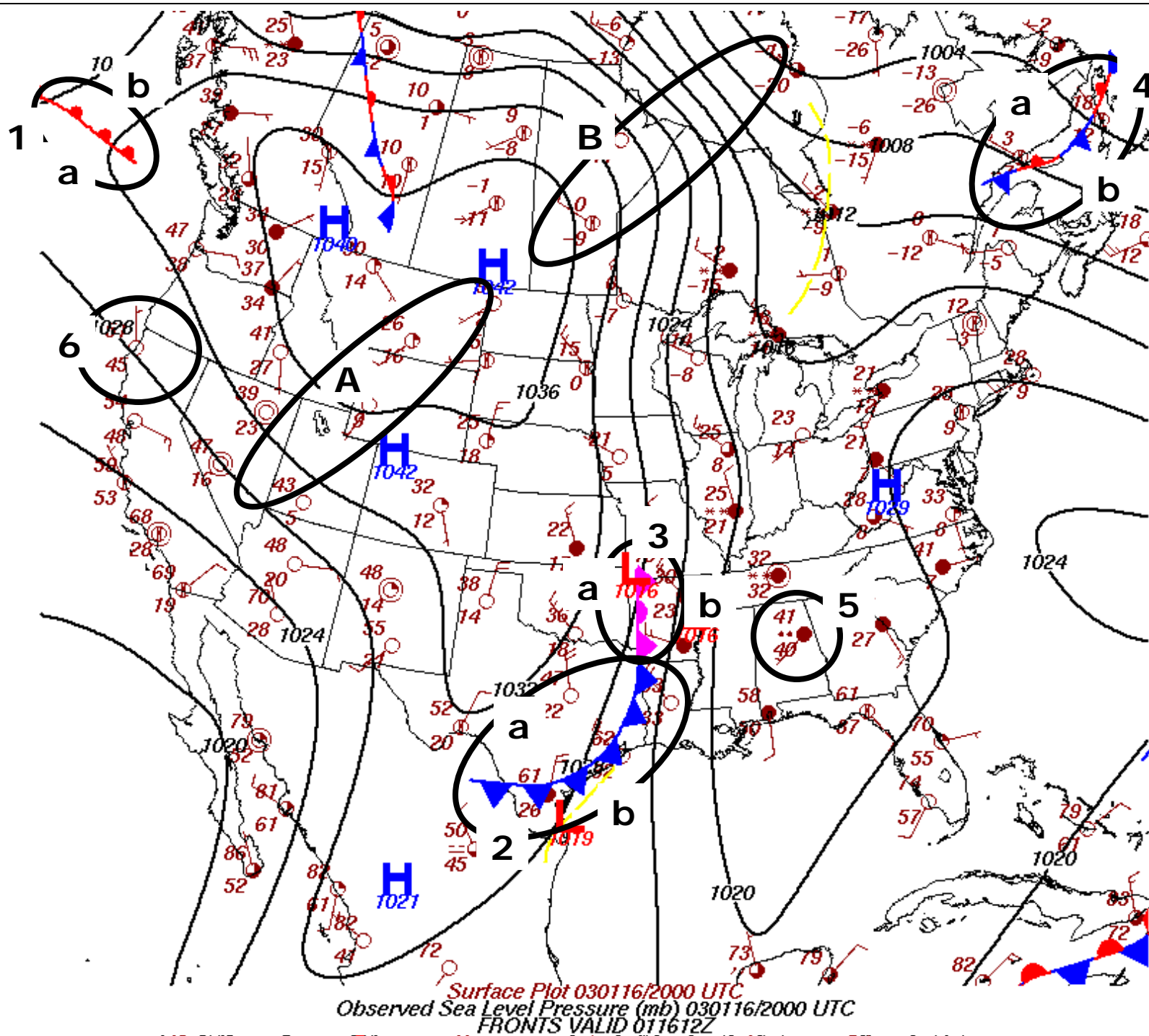


Map interpretation Work Sheet : National Weather Map



On the national map there are several fronts numbered 1-4. Answer the following questions about EACH front in the space provided.

Front 1

What type of Front is this? _____

Which way is it moving?_____

What evidence from the map do you have for this?

Which side of the front labeled "a" or "b" has warmer air? _____

What evidence from the map do you have for this?

Front 2

What type of Front is this? _____

Which way is it moving?_____

What evidence from the map do you have for this?

Which side of the front labeled "a" or "b" has warmer air? _____

What evidence from the map do you have for this?

Front 3

What type of Front is this? _____

Which way is it moving?_____

What evidence from the map do you have for this?

Which side of the front labeled "a" or "b" has warmer air? _____

What evidence from the map do you have for this?

Front 4

What type of Front is this? _____

Which way is it moving?_____

What evidence from the map do you have for this?

Which side of the front labeled "a" or "b" has warmer air? _____

What evidence from the map do you have for this?

On the national map there are two station circles labeled "5" and "6" fill in the data tables below for each station.

Location 5	Property Measured:	Data:
	Air temperature (°F)	
	Weather Conditions	
	Dew Point Temperature (°F)	
	Cloud Cover	
	Wind Direction	
	Wind Speed	
	Pressure (mb)	

Location 6	Property Measured:	Data:
	Air temperature (°F)	
	Weather Conditions	
	Dew Point Temperature (°F)	
	Cloud Cover	
	Wind Direction	
	Wind Speed	
	Pressure (mb)	

On the national map there are two Regions labeled with capital letters "A" and "B". Answer the following questions about those regions in the space provided.

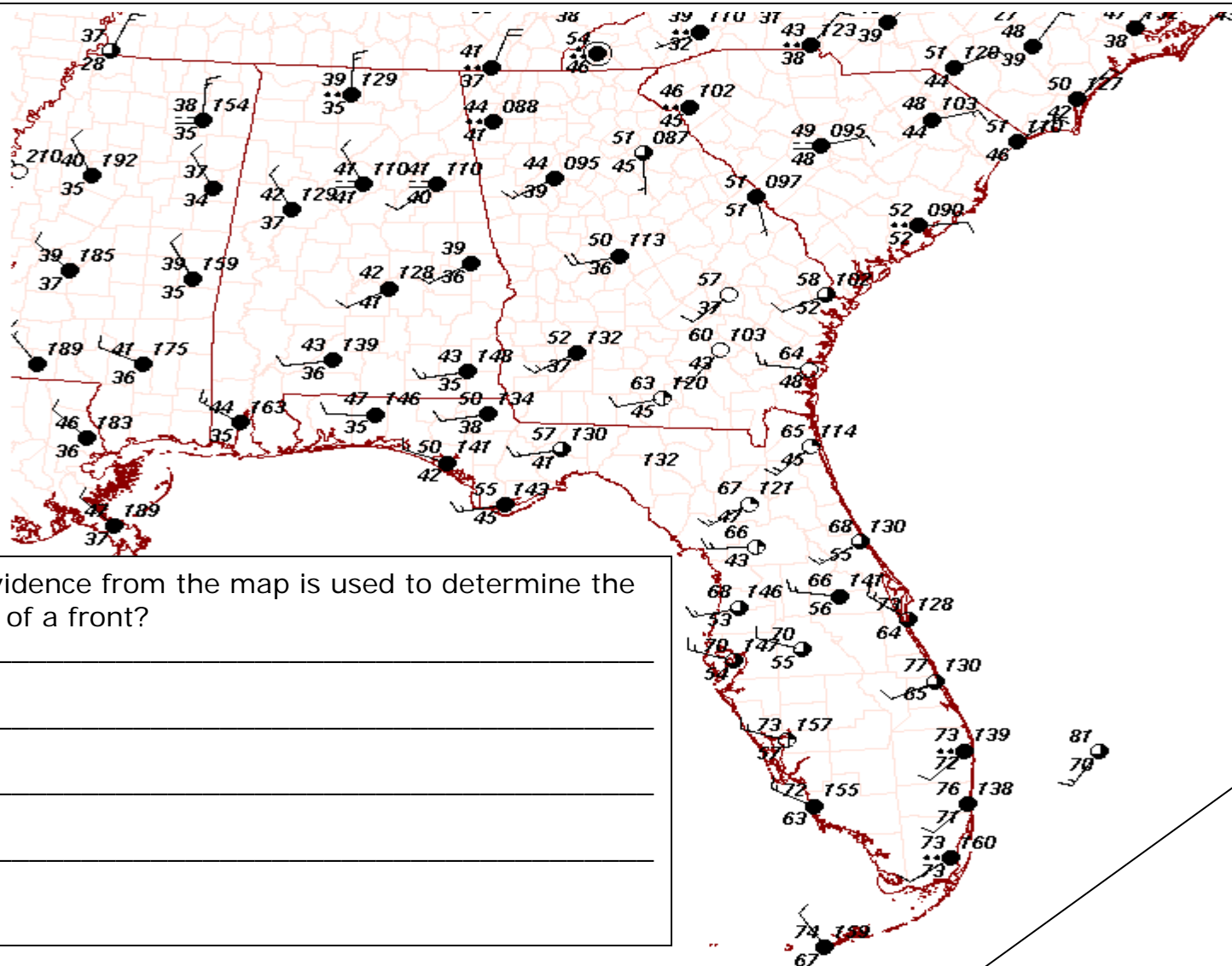
Which region has the highest wind speeds? _____

What evidence from the map do you have for this?

What are the curving black line on the map called? _____

What do they indicate?

Based upon the data presented on the map below draw in the location of any fronts. (Hint: There are 2 in the region!) Label which side of the front is warmer air and which side is colder air. Try to guess which type of fronts they are and which way they are moving based upon the data available



What evidence from the map is used to determine the location of a front?

Southeast Surface Plot 040215/1800 UTC

Label the map below with the Major Air Mass Source



In the boxes below describe what the air mass would be like (moisture and temperature), the name of the air mass, and where it comes from.

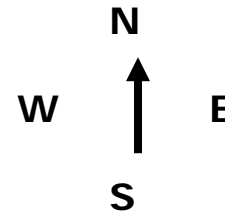
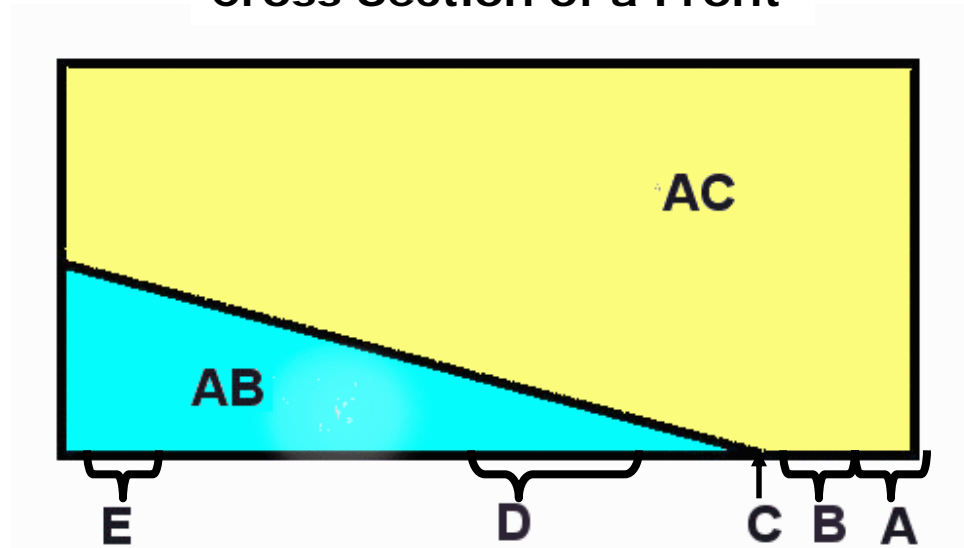
mP

mT

cP

cT

Cross Section of a Front



The following questions refer to the diagram above. Circle the letter or letters from the diagram or the multiple choice responses following the question that best addresses the question.

The diagram above represents what type of front?

- a. warm front b. cold front c. occluded front d. stationary front

Which air mass is cooler AB or AC?

Which lettered region or position indicates the location of the front? A B C D E AB AC

Which lettered region or position would most likely receive rain from this type of front?

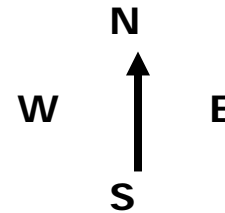
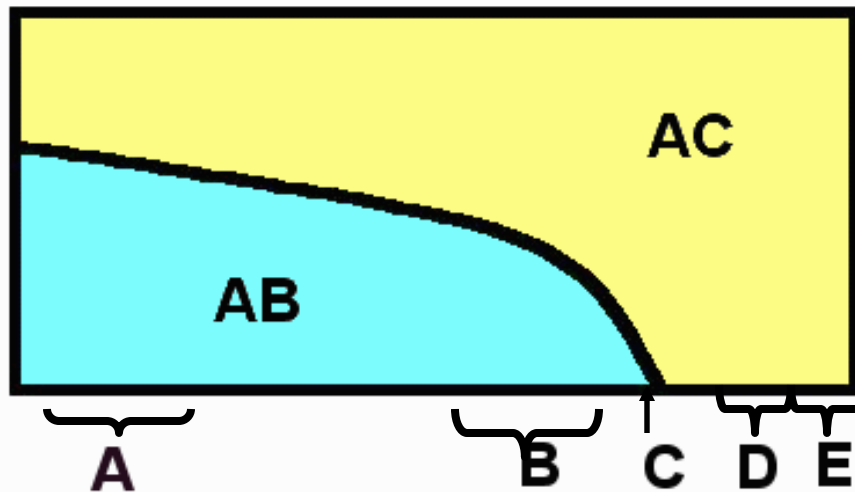
What would the weather be like several hours after the front has passed?

- a. warmer than it was with clear skies b. cooler than it was with cumulus clouds
c. cold and rainy with possibility of snow d. no change

Which direction would air mass AC most likely be moving?

- a. North b. South c. East d. West e. not moving

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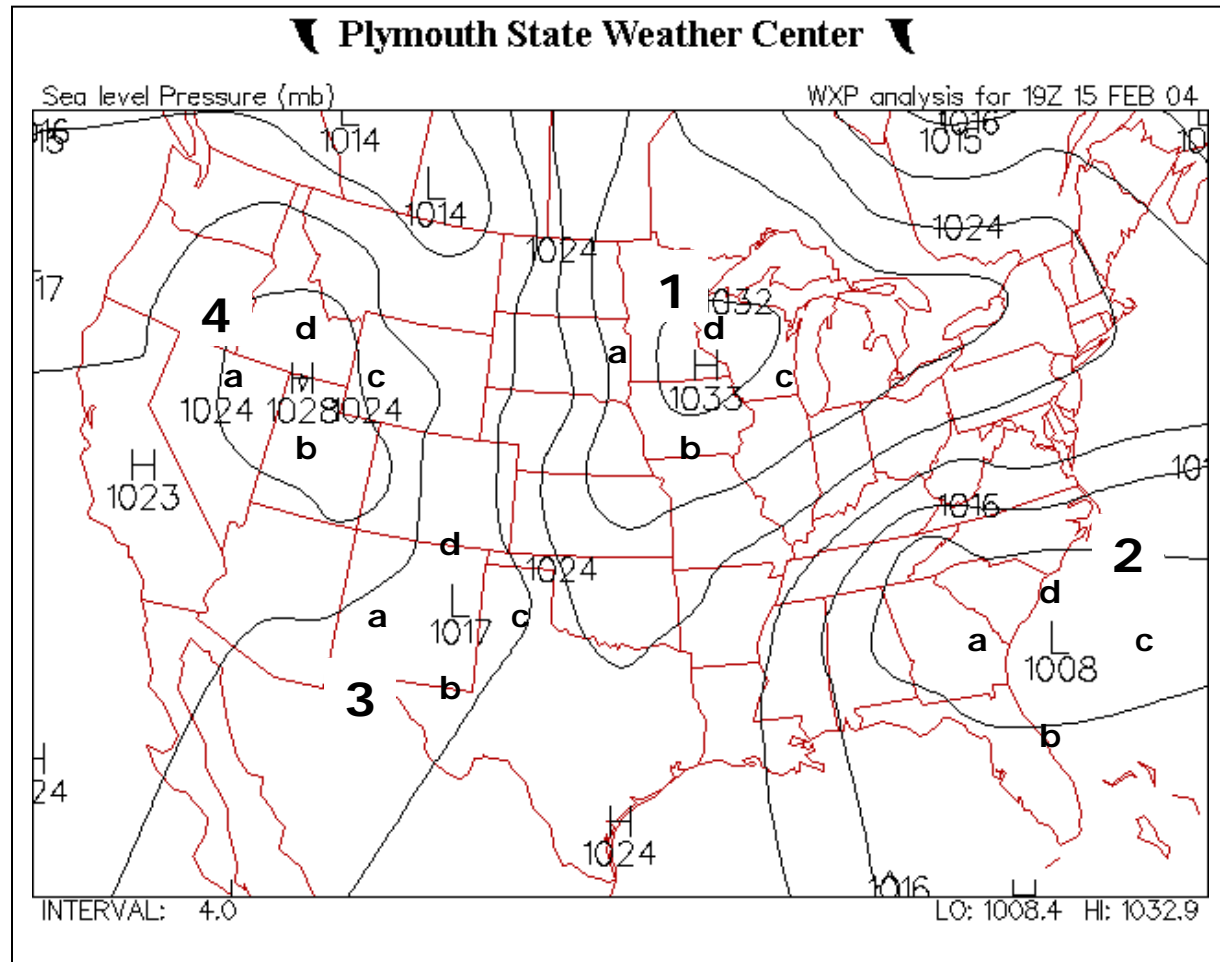
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- a. North b. South c. East d. West e. not moving

On the map below are symbols indicating High and Low pressure centers four have been labeled with numbers 1, 2, 3 and 4. Locations around each pressure center have been labeled "a", "b", "c", and "d". In the boxes to the right draw an arrow indicating what direction the wind would be coming from at that lettered location for the numbered pressure center.



Location 1	Location 2
a	a
b	b
c	c
d	d

Location 3	Location 4
a	a
b	b
c	c
d	d

Why did you choose to draw the arrows in the directions you did?
