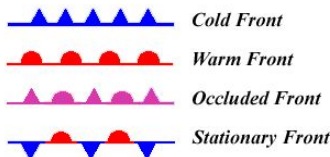
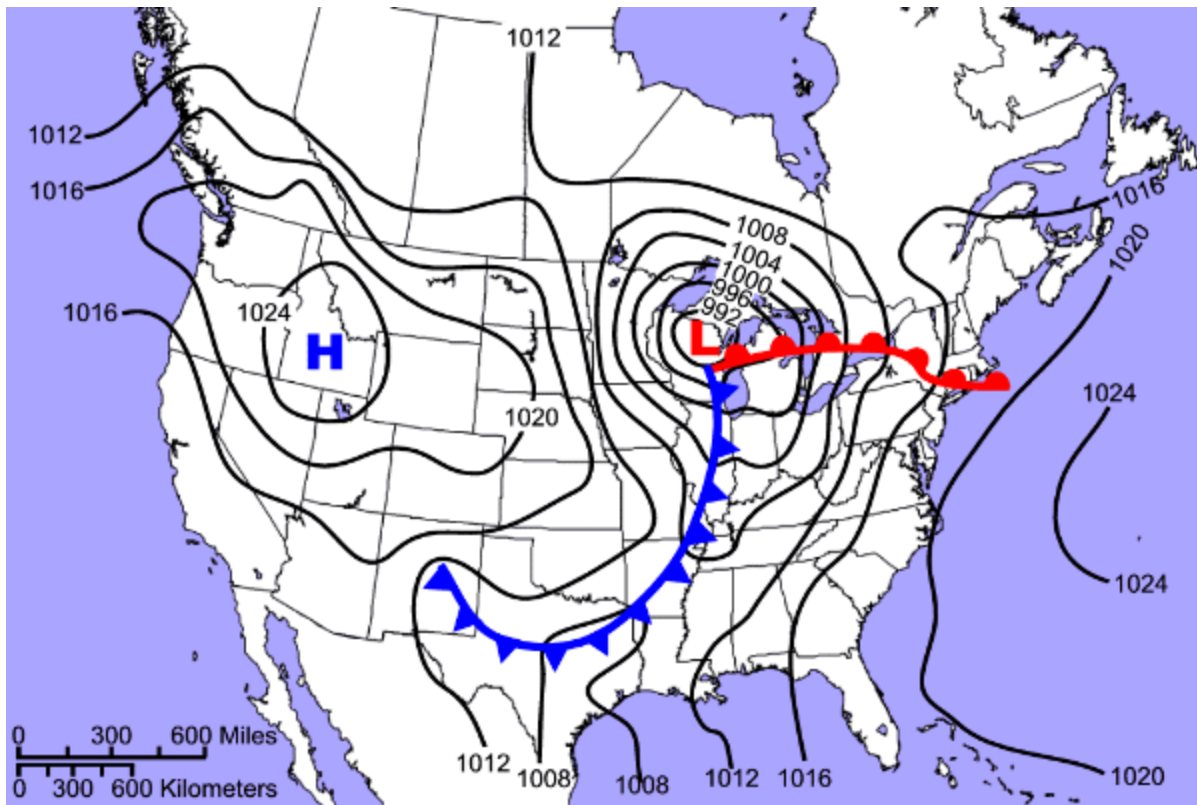


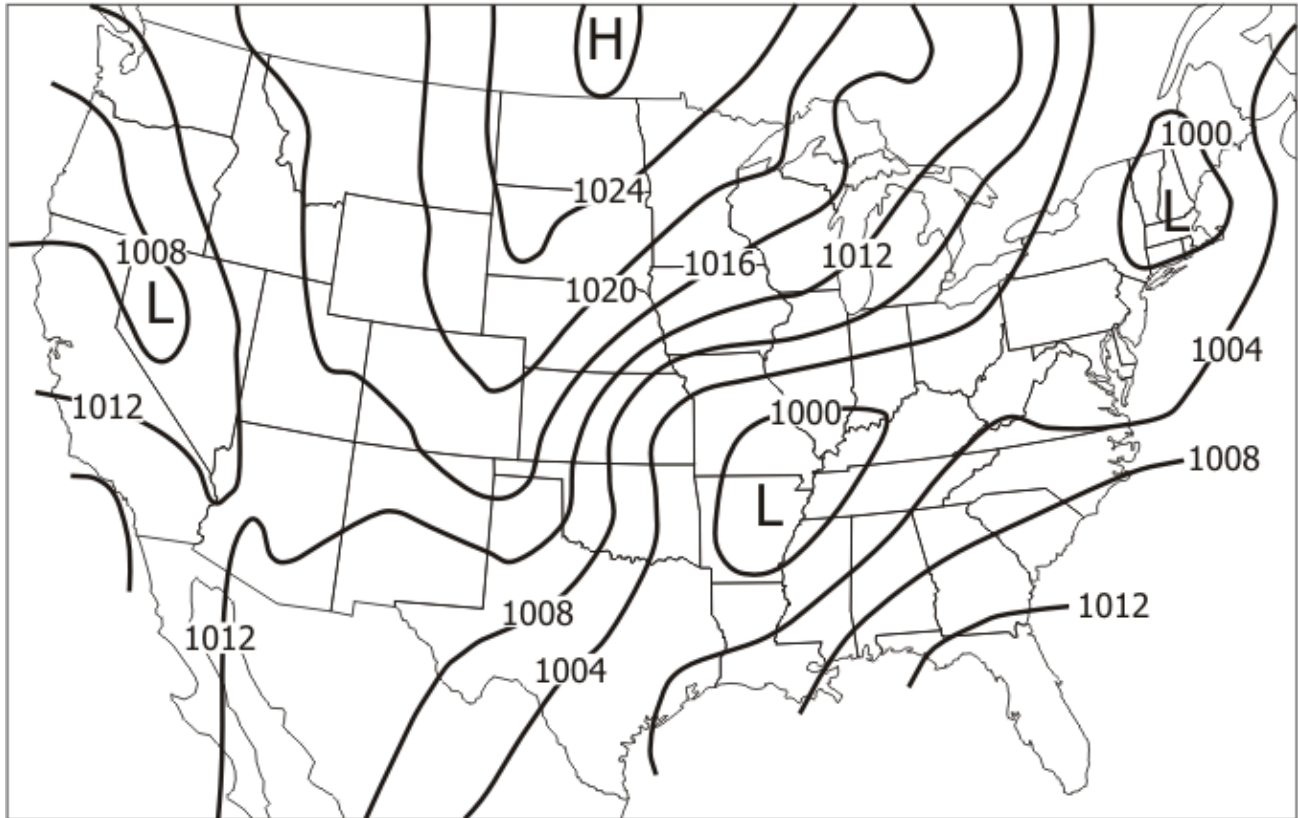
Meteorology Review

Weather Maps:



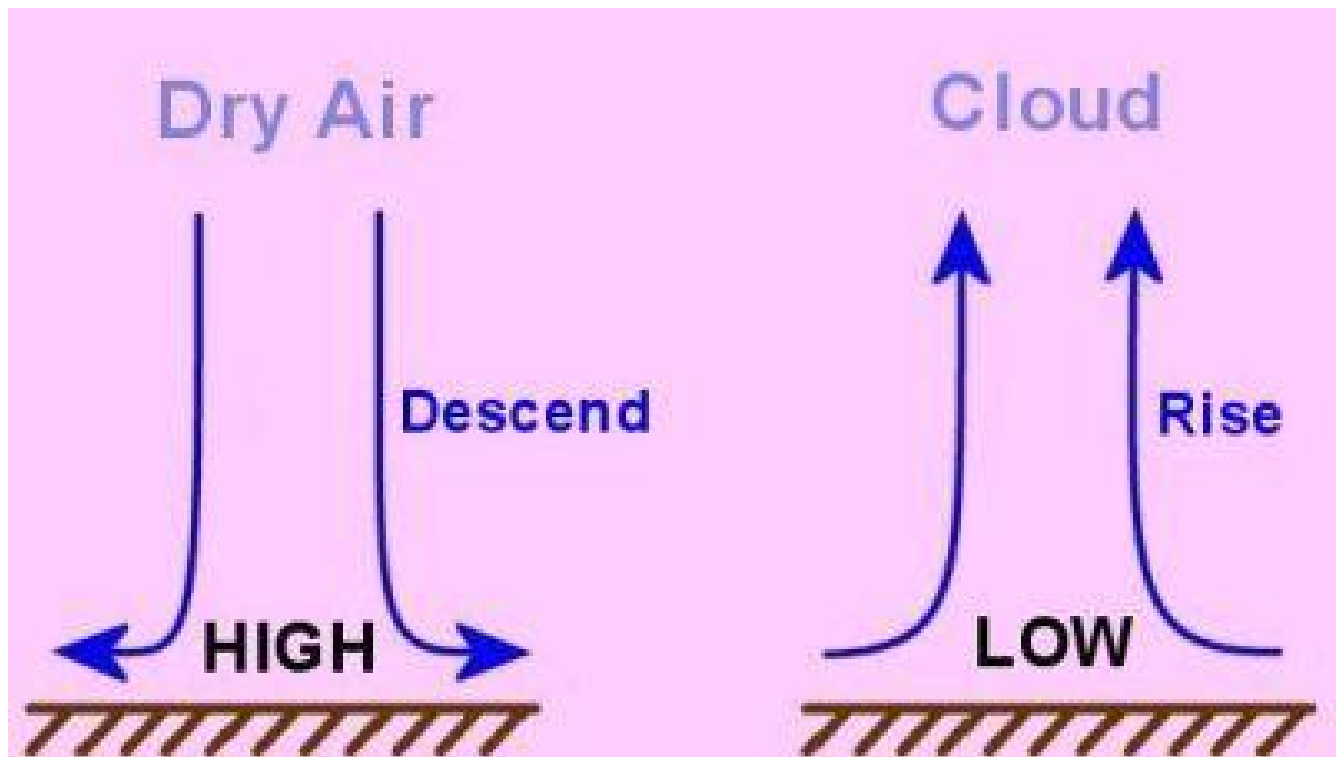
1. The northwestern part of the country is dominated by a _____ (high/low) pressure system.
2. The Great Lakes area is dominated by a _____ (high/low) pressure system.
3. Which of the above areas will be experiencing clear skies? (Northwest or Great Lakes)
4. What type of weather will be expected in Kentucky over the next day? (Thunderstorms and harsh weather or mild weather)
5. Cold fronts are indicated by what?
6. Warm fronts are indicated by what?
7. Approximately how far does wind have to travel to go from the west coast (California) to Virginia?

Isobars:



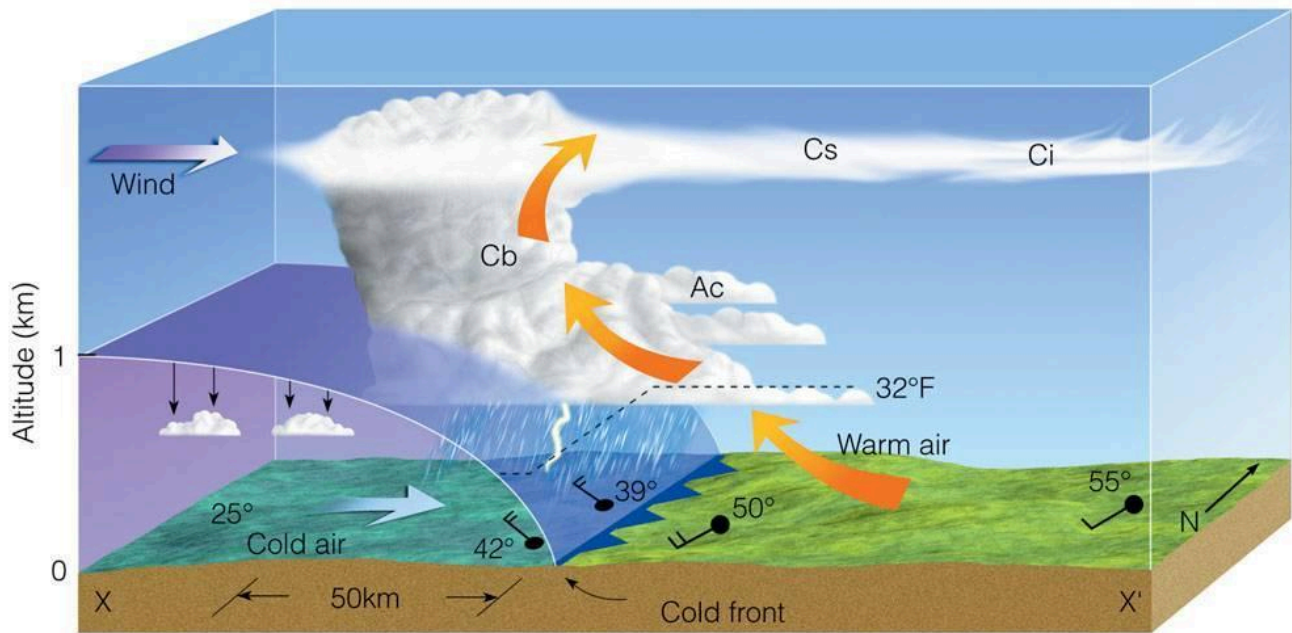
1. Where is the highest pressure on the map?
2. Where is the lowest pressure on the map?
3. What direction will the Low pressures be rotating?
4. What is the official name for the Low pressure systems (other than low pressure system)?

Winds:



1. Air always blows from _____ pressure to _____ pressure.
2. Which of these pressure systems will rotate counterclockwise?
3. Which of these pressure systems is also known as an anticyclone?
4. Which of these pressure systems is associated with storms?
5. Which of these pressure systems is associated with clear breezy days?

Fronts:

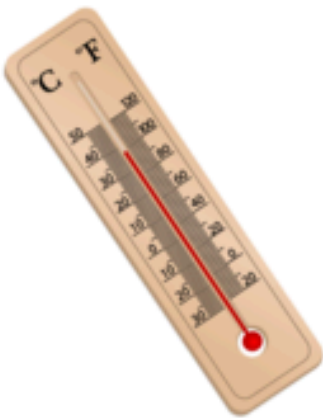


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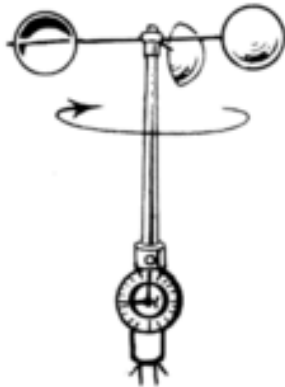
1. Is this a Warm or Cold front?
2. Where in this picture will the pressure be the lowest?
3. What type of weather can one expect at a cold front?
4. What will happen to the pressure as any front passes over?
5. In what direction is the cold air moving?(N,E,S,W)
6. What types of clouds does the rising warm air create along the front?
7. Describe the pressures one expects under the Cold Air, the frontal boundary, and under the Warm air.

Weather Instruments:

Weather Instruments



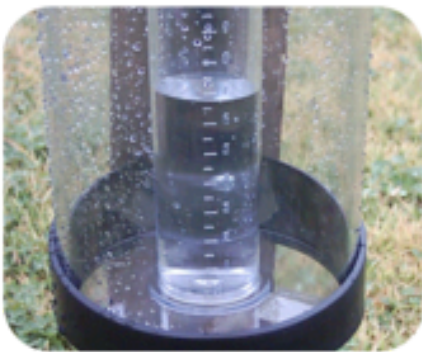
Thermometer
(temperature)



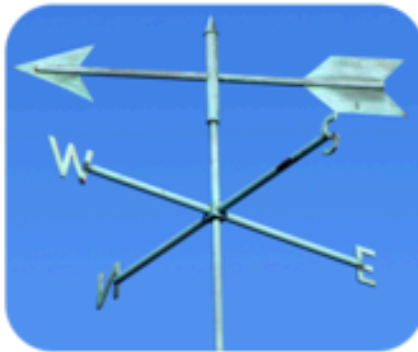
Anemometer
(wind speed)



Hygrometer
(humidity)



Rain gauge
(amount of rain)



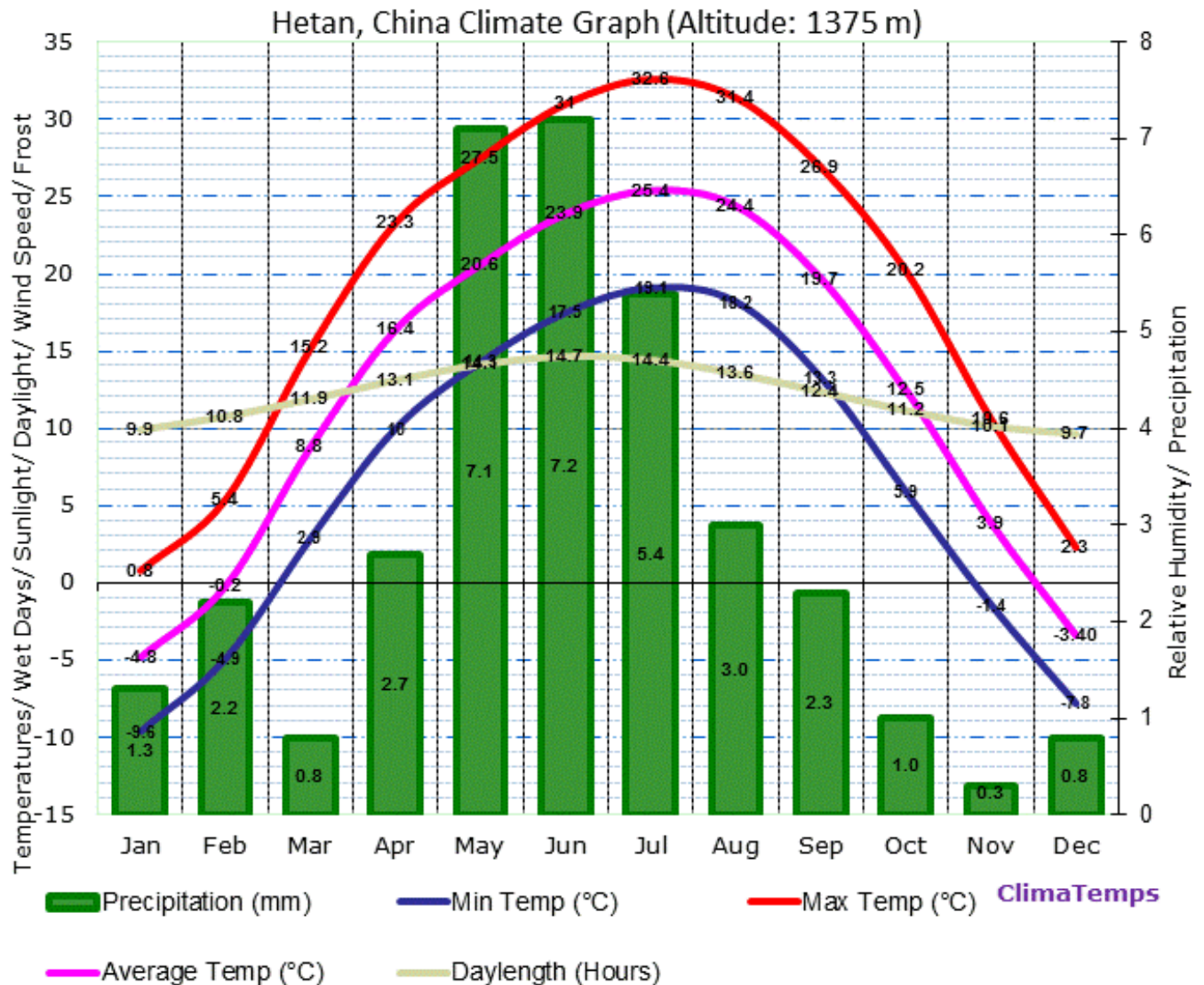
Wind vane
(wind direction)



Snow gauge
(amount of snow)

1. Write the instrument for the following measurements (if you are confused – they are listed below the image)
 - a. 39 degrees Fahrenheit
 - b. 47% humidity
 - c. 6mph
 - d. From the NE
 - e. 3.2 inches of rain
 - f. 4.8 inches of snow

Climate Graph:



1. What is the temperature maximum and minimum during the month of July?
2. Which season of the year has more wet rainy days?
3. Which month during the year shown has the least amount of precipitation?
4. What location is this data for?
5. What season has the lowest temperatures?

Wet/Dry Bulb Graph:

Relative Humidity (%)

Dry-Bulb Temperature (°C)	Difference Between Wet-Bulb and Dry-Bulb Temperatures (C°)															
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
-20	100	28														
-18	100	40														
-16	100	48														
-14	100	55	11													
-12	100	61	23													
-10	100	66	33													
-8	100	71	41	13												
-6	100	73	48	20												
-4	100	77	54	32	11											
-2	100	79	58	37	20	1										
0	100	81	63	45	28	11										
2	100	83	67	51	36	20	6									
4	100	85	70	56	42	27	14									
6	100	86	72	59	46	35	22	10								
8	100	87	74	62	51	39	28	17	6							
10	100	88	76	65	54	43	33	24	13	4						
12	100	88	78	67	57	48	38	28	19	10	2					
14	100	89	79	69	60	50	41	33	25	16	8	1				
16	100	90	80	71	62	54	45	37	29	21	14	7	1			
18	100	91	81	72	64	56	48	40	33	26	19	12	6			
20	100	91	82	74	66	58	51	44	36	30	23	17	11	5		
22	100	92	83	75	68	60	53	46	40	33	27	21	15	10	4	
24	100	92	84	76	69	62	55	49	42	36	30	25	20	14	9	4
26	100	92	85	77	70	64	57	51	45	39	34	28	23	18	13	9
28	100	93	86	78	71	65	59	53	47	42	36	31	26	21	17	12
30	100	93	86	79	72	66	61	55	49	44	39	34	29	25	20	16

(Be sure to read the top of the graph for instructions on how to use the numbers.)

1. What is the Relative Humidity if the
 - a. Wet is 16 and the dry is 20?
 - b. Wet is 30 and the dry is 20?