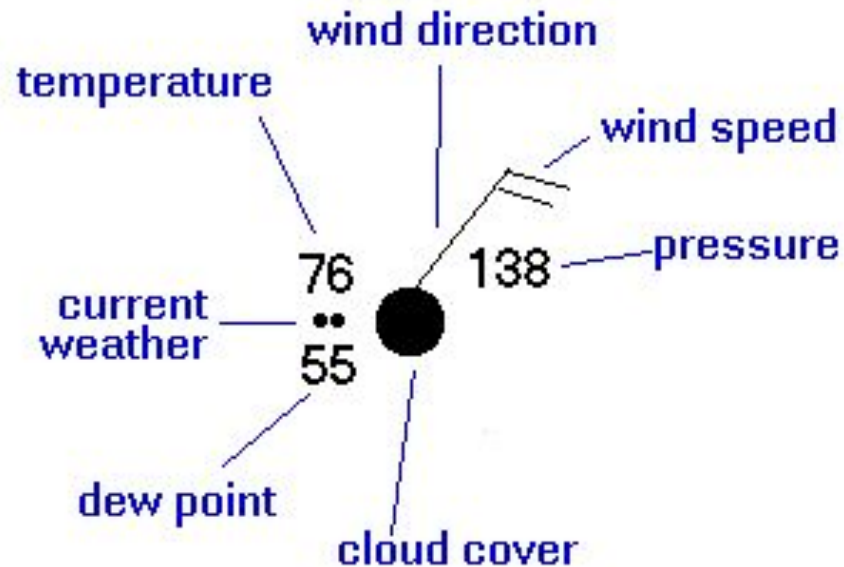


WEATHER STATION MODELS



WHAT IS A WEATHER STATION MODEL?

- A model that uses **SYMBOLS** that plot a number of **WEATHER ELEMENTS** in a small space on a weather map.



**HAND OUT
CHEAT SHEET**

Weather Symbols
(list under temperature)

<p>RAIN</p> <p>☐☐ Light</p> <p>☐☐☐ Moderate</p> <p>☐☐☐☐ Heavy</p> <p>☐ ▽ Light Shower</p> <p>☐ ▽ Moderate Shower</p> <p>☐ ☐ Thunderstorm</p> <p>☐ ☐ Heavy T-storm</p>	<p>SNOW</p> <p>x x Light</p> <p>x x x x Moderate</p> <p>x x x x x Heavy</p> <p>x ▽ Light Shower</p> <p>x ▽ Moderate Shower</p>	<p>DRIZZLE</p> <p>☐☐ Light</p> <p>☐☐☐ Moderate</p> <p>☐☐☐☐ Heavy</p>	<p>FREEZING RAIN</p> <p>☐ ~ Light</p> <p>☐ ~ ☐ Moderate</p>
<p>OTHER</p> <p>☉☉ Haze</p> <p>== Fog</p>		<p>↔ Ice Crystals</p>	

**Station Model
Key**

temperature

Air pressure

62 1003.6

53

Dew point

Cloud cover

Winds:

-Wind barb points direction wind comes from

-Flags off wind direction show speed, must face clockwise

(see front for key of wind speeds)

Speed (knots)	Symbol	Speed (knots)	Symbol
Less than 1		33-37	
1-2		38-42	
3-7		43-47	
8-12		48-52	
13-17		53-57	
18-22		58-62	
23-27		98-102	
28-32		103-107	

Fog 
(label under temperature)

Calm 

RAIN


Light


(label under temperature)



Thunderstorm

(label under temperature)

 Clear

 Partly Cloudy (25%)

 Partly Cloudy (50%)

 Overcast (100%)

SIMPLIFIED MODEL

MUST USE CHART FOR SYMBOLS*

• TEMPERATURE

• BAROMETRIC PRESSURE (last 3 numbers – no point)

• CURRENT WEATHER*



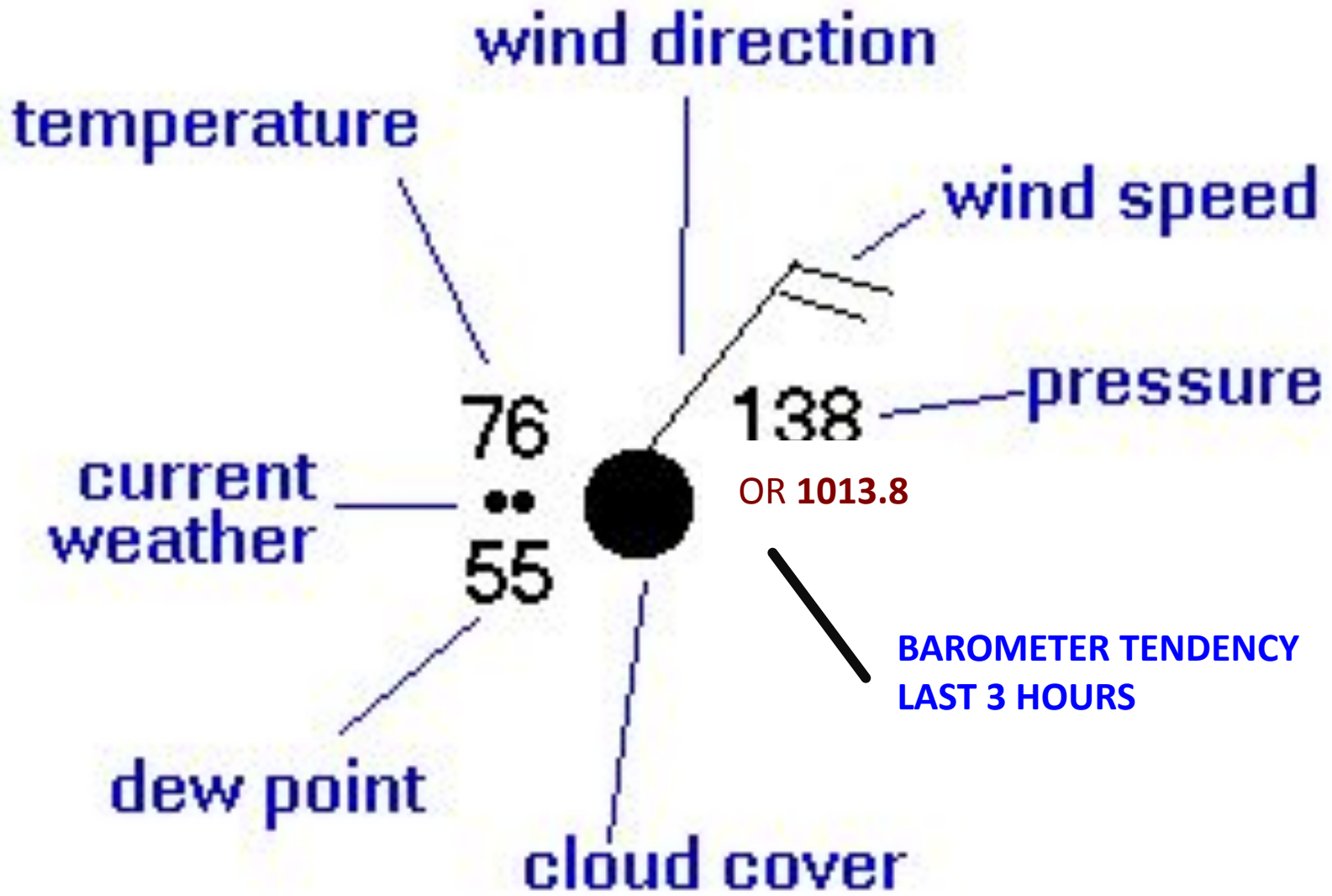
CLOUD COVER*

• DEW POINT

• BAROMETER TENDENCY LAST 3 HOURS*



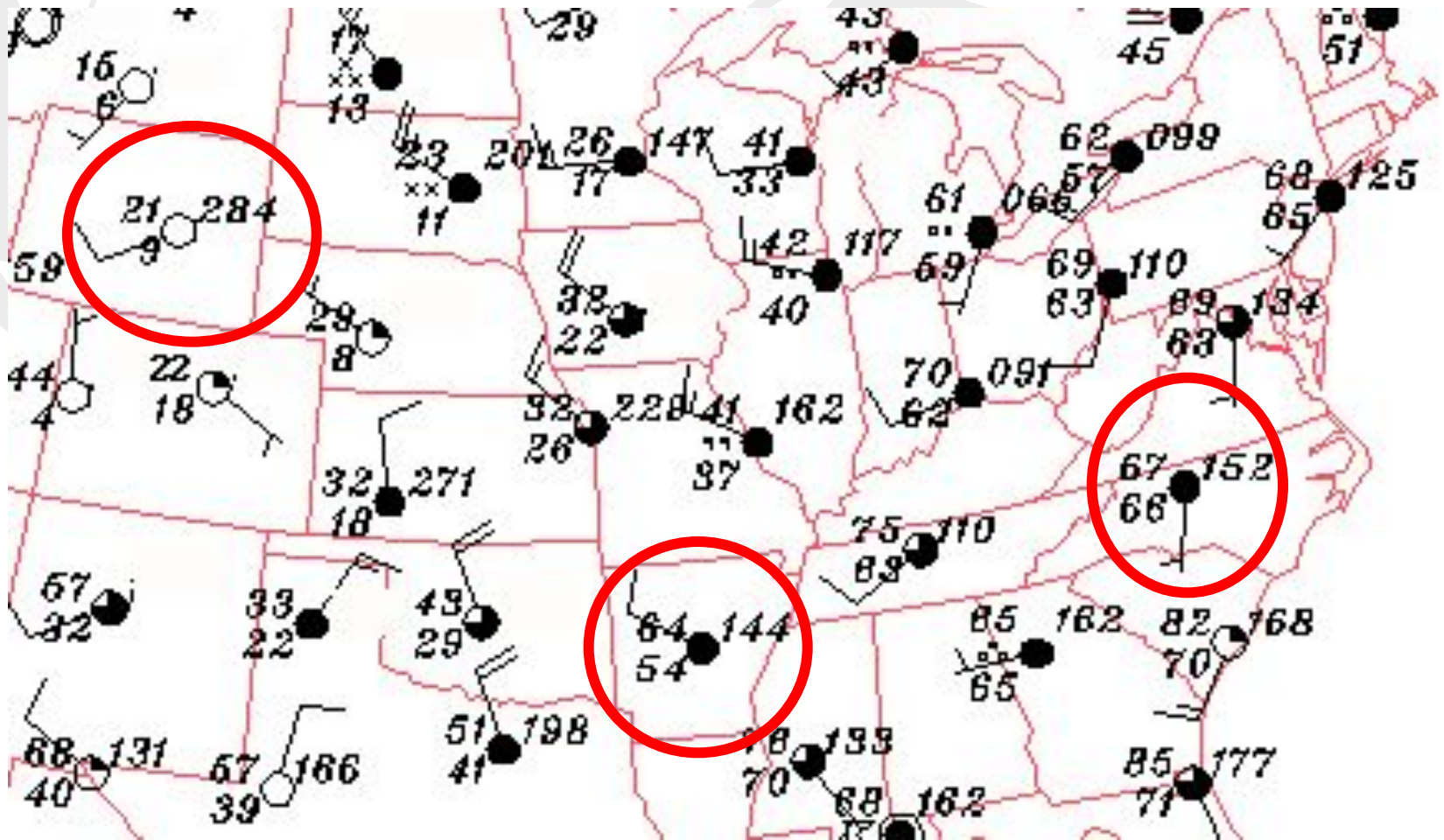
WIND DIRECTION AND SPEED*



OR 1013.8

BAROMETER TENDENCY
LAST 3 HOURS

What's the weather like in....?



Practice



- **TEMP:** 55⁰F
- **DEW POINT:** 37⁰F
- **SKY:** 25% cloud cover
- **BP:** 1013.8 mb
- **BP TENDENCY:** RISING
- **WIND SPEED:** 20 knots
- **WIND DIRECTION:** SW
- **CURRENT WEATHER:** STEADY MODERATE RAIN

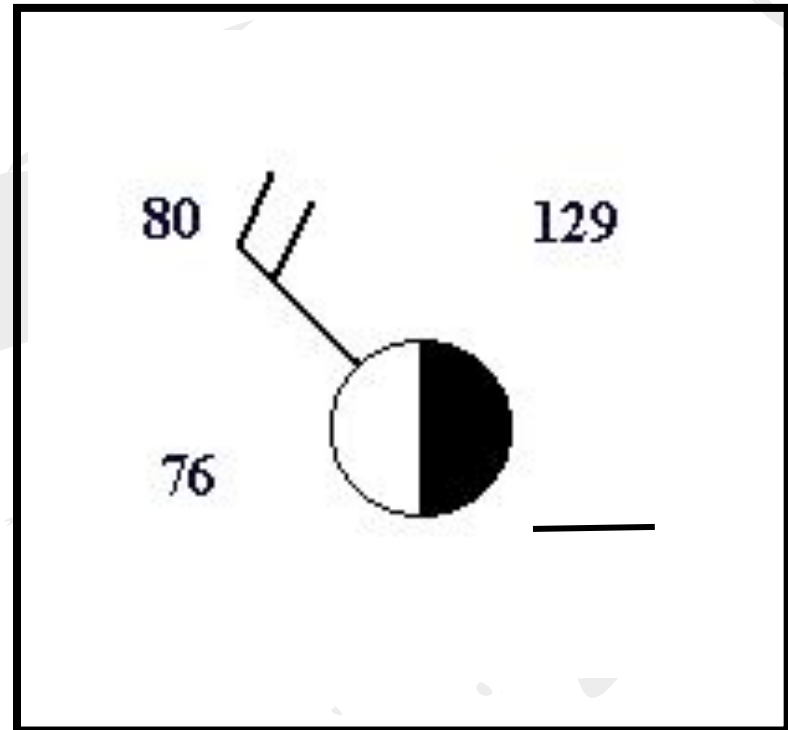
Practice



- **TEMP:** 33⁰F
- **DEW POINT:** 25⁰F
- **SKY:** 100% cloud cover
- **BP:** 989.3 mb
- **BP TENDENCY:** FALLING
- **WIND SPEED:** 35 knots
- **WIND DIRECTION:** N
- **CURRENT WEATHER:** HAIL

Practice

- TEMP:
- DEW POINT:
- SKY:
- BP:
- BP TENDENCY:
- WIND SPEED:
- WIND DIRECTION:
- CURRENT WEATHER:



Weather Station Model REVIEW

With the person next to you, **DRAW** the station model on your whiteboard.

1.

- **TEMP:** 80⁰F
- **WIND DIRECTION:** SE
- **DEW POINT:** 70⁰F
- **BP:** 997.3 mb
- **SKY:** OVERCAST
- **BP TENDENCY:** FALLING
- **WIND SPEED:** 25 knots
- **CURRENT WEATHER:** MILD RAIN THUNDERSTORM



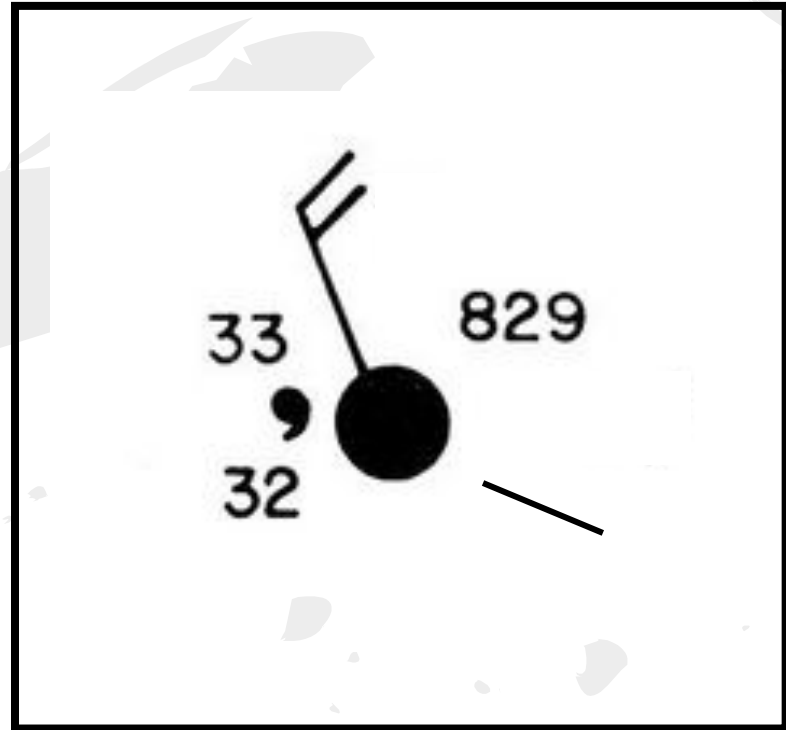
2.

- **TEMP:** 63⁰F
- **WIND DIRECTION:** NW
- **DEW POINT:** 42⁰F
- **BP:** 1012.4 mb
- **SKY:** CLEAR
- **BP TENDENCY:** STEADY
- **WIND SPEED:** 5 knots
- **CURRENT WEATHER:** NONE



3.

- TEMP:
- DEW POINT:
- SKY:
- BP:
- BP TENDENCY:
- WIND SPEED:
- WIND DIRECTION:
- CURRENT WEATHER:



4.

- 25% cloud cover
- WEST wind at 5 KNOTS
- TEMP: 77⁰F
- STEADY barometer
- 999.2 mb
- DEW POINT: 45⁰F



5.

- **OVERCAST** sky
- **DEW POINT: 24⁰F**
- **FALLING** barometer
- **NW** wind at **15** knots
- **BAROMETER: 1001.0 mb**
- **TEMP: 38⁰F**
- **CURRENT WEATHER: intermittent light snow**

