

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## ***STATION MODELS***

- To convert from millibars to “station model code” take the last three numbers.
  - For example 1234.5 turns into 345.
- To convert from “station model code” to millibars, do the following:
  - If the value is “500” or higher, put a 9 in front of it and add the decimal for the last digit.
  - If the value is lower than “500”, put a 10 in front of it and add the decimal for the last digit.

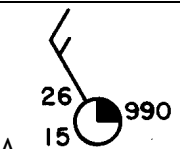
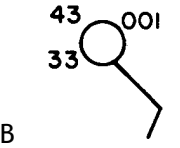
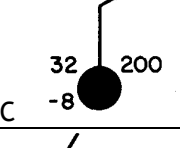
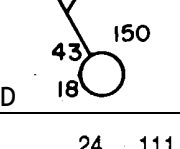
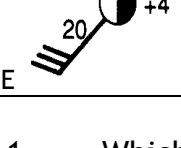
	Millibars	“Station Model”
1	1028.0	
2	1008.4	
3	992.2	
4	976.6	
5	994.8	
6	1000.1	
7	1008.2	
8	987.1	
9	988.8	
10	1022.2	

	Millibars	“Station Model”
11		281
12		206
13		080
14		168
15		800
16		888
17		165
18		768
19		000
20		987

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## ***STATION MODELS***

Decode the following Station Models and answer the questions below:

	Temp (°F)	Dew Point (°F)	Air Pressure (mb)	Cloud Coverage (%)	Wind Speed (knots)	Wind Direction (from _ to _)	Pressure System (H or L)
A 							
B 							
C 							
D 							
E 							

- Which station has the greatest chance of precipitation?
- How do you know?
- What is the relationship between air pressure and weather conditions?

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## ***STATION MODELS***

Draw the station models for the following:

**STATION #1:**

temperature	30° F
dew point	29° F
wind speed	10 knots
wind direction	from the NW
air pressure	1012.0 mb
cloud coverage	clear
precipitation	light snowfall

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**STATION #2:**

temperature	54° F
dew point	41° F
wind speed	15 knots
wind direction	from the E
air pressure	1013.2 mb
cloud coverage	25% of the sky
precipitation	none

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**STATION #3:**

temperature	78° F
dew point	78° F
wind speed	no wind
air pressure	986.4 mb
cloud coverage	overcast
precipitation	thunderstorms and ½ inch of rain in last 6 hours

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**STATION #4:**

temperature	15° F
dew point	15° F
wind speed	35 knots
wind direction	to the SW
air pressure	1006.5 mb
cloud coverage	overcast
precipitation	heavy snowfall

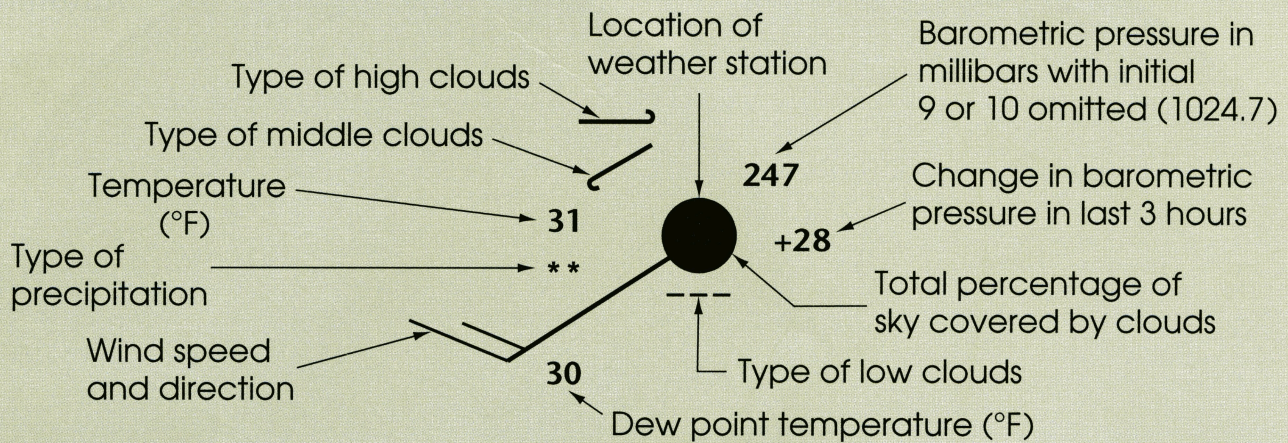
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**STATION #5:**

temperature	22° F
dew point	18° F
wind speed	none
air pressure	1021.0 mb
cloud coverage	clear
precipitation	none

# Weather Map Symbols

## Sample Plotted Report at Each Station



## Symbols Used in Plotting Report

Precipitation	Wind speed and direction	Sky coverage	Some types of high clouds
Fog Snow Rain Thunderstorm Drizzle Showers	0 calm 1-2 knots 3-7 knots 8-12 knots 13-17 knots 18-22 knots 23-27 knots 48-52 knots 1 knot = 1.852 km/h	No cover 1/10 or less 2/10 to 3/10 4/10 1/2 6/10 7/10 Overcast with openings Complete overcast	Scattered cirrus Dense cirrus in patches Veil of cirrus covering entire sky Cirrus not covering entire sky
Some types of middle clouds	Some types of low clouds	Fronts and pressure systems	
Thin altostratus layer Thick altostratus layer Thin altostratus in patches Thin altostratus in bands	Cumulus of fair weather Stratocumulus Fractocumulus of bad weather Stratus of fair weather	(H) or High Center of high- or (L) or Low low-pressure system Cold front Warm front Occluded front Stationary front	