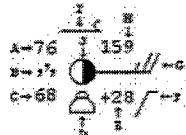


Department of Environmental Protection Weather Station Symbols

Cloud Coverage	Wind Speed	Cloud Types	Weather Conditions
○ No Clouds	○ Calm	High Elevation	INTERMITTENT
○ 1/10	— <5 knots	Scattered Cirrus	Light Moderate Heavy
○ 1/4	— 5 knots	Dense Cirrus	Rain
○ 1/2	— 10 knots	Cirrostratus	Snow
○ 3/4	— 20 knots	Heavy Cirrostratus	Drizzle
○ 8/10	— 25 knots	Cirrus & Cirrostratus	STEADY
● Completely Overcast	— 50 knots	Middle Elevation	Light Moderate Heavy
✖ Sky Obscured		Thin Altostratus	Rain
		Thick Altostratus	Snow
		Thin Altocumulus	Drizzle
		Heavy Altocumulus	THUNDERSTORMS
		Low Elevation	Moderate Severe
		Stratocumulus	Rain
		Fair Weather Cumulus	Snow
		Developing Cumulus	Hail
		Cumulonimbus	A. Hail
		Cirrocumulus	B. Snow Drifts
		Nimbostratus	C. Tornado
		Stratus	D. Ice Crystals
		Proteccumulus	E. Freezing Rain
			F. Drifting Snow
			G. Light Heavy
			H. Gales
			I. Freezing Drizzle
			J. Drifting Snow
MSC SKY COVER		SHOWERS	
○ Haze	— Fog in Patches	▼ Slight Rain	▼ Slight Show
○/○/○ Smoke	— Light Fog	▼ Violent Rain	▼ Moderate Show
○/○/○/○ Dust/Sand	— Heavy Fog	▼ Moderate/Heavy Rain	▼ Sketchy
		▼ Hail	▼ Material/Happy Show
Barometric Tendency			
Increase in Air Pressure over Last 3 Hours		Decrease in Air Pressure over last 3 Hours	
↑ Rising, then Falling	↑ Rising, then Steady	↓ Falling, then Rising	↓ Falling, then Steady
↑ Rising Steadily	— Steady	↓ Falling Steadily	↓ Falling Steadily
↑ Falling, then Rising	— Falling	↑ Falling, then Falling	↑ Falling, then Falling

Weather Station Model Demo



- A - Temperature
- B - Present Weather
- C - Dew Point
- D - Low Cloud Type
- E - Pressure Change
- F - Pressure Tendency
- G - Wind Speed & Direction
- H - Barometric Pressure
- I - High Cloud Type
- J - Cloud Coverage

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Identify the weather at the following station models:

1)

Temperature _____

Location _____

Dew Point _____

Wind Speed (Knots) _____

Wind Direction _____

Amount of cloud cover _____

Barometric pressure _____

Barometric trend _____

Current Weather _____

2)

Temperature _____

Location _____

Dew Point _____

Wind Speed (Knots) _____

Wind Direction _____

Amount of cloud cover _____ Amount of cloud cover _____ Amount of cloud cover _____ / Amount of cloud cover _____

Barometric pressure _____

Barometric trend _____

Current Weather _____

3)

Temperature _____

Location _____

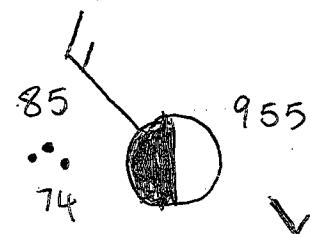
Dew Point _____

Wind Speed (Knots) _____

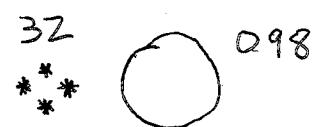
Wind Direction _____

Amount of cloud cover _____

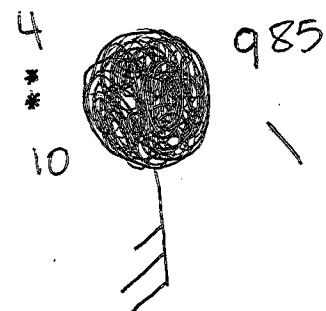
Current Weather _____



San Jose



Denver



Albany

Barometric pressure _____

Barometric trend _____

Current Weather _____

4)

Temperature _____

Location _____

Dew Point _____

Wind Speed (Knots) _____

Wind Direction _____

Amount of cloud cover _____

Barometric pressure _____

Barometric trend _____

Current Weather _____

5)

Temperature _____

Location _____

Dew Point _____

Wind Speed (Knots) _____

Wind Direction _____

Amount of cloud cover _____

Barometric pressure _____

Barometric trend _____

Current Weather _____

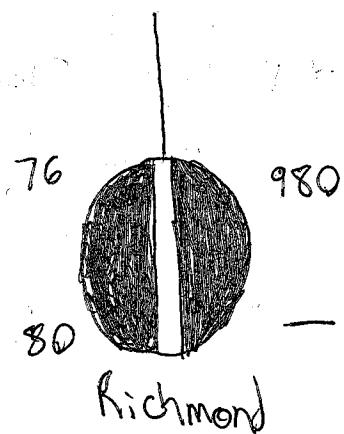
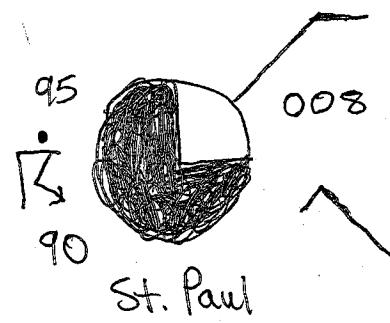
Draw the station model based on the information given

6)

Temperature 34

Location Barnesville

Dew Point 26



Wind Speed (Knots) 20

Wind Direction SE

Amount of cloud cover 1/2

Barometric pressure ~~930.0~~ 930.1

Barometric trend Falling, then rising

Current Weather Intermittent Moderate rain

7)

Temperature 75

Location Fargo

Dew Point 80

Wind Speed (Knots) Calm

Wind Direction None

Amount of cloud cover 1/10

Barometric pressure 1080.6

Barometric trend Falling steadily

Current Weather Clear

8)

Temperature 55

Location Grand Forks

Dew Point 42

Wind Speed (Knots) 5

Wind Direction W

Amount of cloud cover No clouds

Barometric pressure 1115.1

Barometric trend Rising then falling

Current Weather light steady rain

9)

Temperature 36

Location Madison

Dew Point 34

Wind Speed (Knots) 50

Wind Direction NE

Amount of cloud cover Completely Overcast

Barometric pressure 943.7

Barometric trend Rising then falling

Current Weather Steady moderate drizzle

10)

Temperature 95

Location Tampa

Dew Point 85

Wind Speed (Knots) 100

Wind Direction SE

Amount of cloud cover Completely Overcast

Barometric pressure 901.4

Barometric trend falling steadily

Current Weather Moderate Thunderstorm with Hail