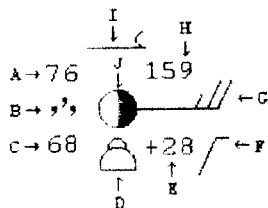


Department of Environmental Protection

# Weather Station Symbols

<p><b>Cloud Coverage</b></p> <ul style="list-style-type: none"> <li> No Clouds</li> <li> 1/10</li> <li> 1/4</li> <li> 1/2</li> <li> 3/4</li> <li> 9/10</li> <li> Completely Overcast</li> <li> Sky Obscured</li> </ul>	<p><b>Wind Speed</b></p> <ul style="list-style-type: none"> <li> Calm</li> <li> &lt; 5 knots</li> <li> 5 knots</li> <li> 10 knots</li> <li> 20 knots</li> <li> 25 knots</li> <li> 50 knots</li> </ul>	<p><b>Cloud Types</b></p> <p>High Elevation</p> <ul style="list-style-type: none"> <li> Scattered Cirrus</li> <li> Dense Cirrus</li> <li> Cirrostratus</li> <li> Heavy Cirrostratus</li> <li> Cirrus &amp; Cirrostratus</li> </ul> <p>Middle Elevation</p> <ul style="list-style-type: none"> <li> Thin Altostratus</li> <li> Thick Altostratus</li> <li> Thin Altocumulus</li> <li> Heavy Altocumulus</li> </ul> <p>Low Elevation</p> <ul style="list-style-type: none"> <li> Stratocumulus</li> <li> Fair Weather Cumulus</li> <li> Developing Cumulus</li> <li> Cumulonimbus</li> <li> Cirrocumulus</li> <li> Nimbostratus</li> <li> Stratus</li> <li> Fractostratus</li> </ul>	<p><b>Weather Conditions</b></p> <p>INTERMITTENT</p> <table border="1"> <thead> <tr> <th></th> <th>Light</th> <th>Moderate</th> <th>Heavy</th> </tr> </thead> <tbody> <tr> <td>Rain</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Snow</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Drizzle</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>STEADY</p> <table border="1"> <thead> <tr> <th></th> <th>Light</th> <th>Moderate</th> <th>Heavy</th> </tr> </thead> <tbody> <tr> <td>Rain</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Snow</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Drizzle</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>THUNDERSTORMS</p> <table border="1"> <thead> <tr> <th></th> <th>Mild</th> <th>Moderate</th> <th>Severe</th> </tr> </thead> <tbody> <tr> <td>Rain</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Snow</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Hail</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>  Hail       Freezing Drizzle   Snow Grains       Light       Heavy   Tornado       Light       Heavy   Ice Crystals       Freezing Rain   Light       Heavy   Drifting Snow       Light       Heavy         </p>		Light	Moderate	Heavy	Rain				Snow				Drizzle					Light	Moderate	Heavy	Rain				Snow				Drizzle					Mild	Moderate	Severe	Rain				Snow				Hail			
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<p><b>Wind Direction</b></p> <p>Wind comes FROM the direction of the arrow.</p>	<p><b>Fronts</b></p> <ul style="list-style-type: none"> <li> Warm</li> <li> Cold</li> <li> Stationary</li> <li> Occluded</li> <li> Warm (Alto)</li> <li> Cold (Alto)</li> </ul>																																																		
<p><b>Air Pressure</b></p> <ul style="list-style-type: none"> <li> High</li> <li> Low</li> </ul>																																																			
<p><b>MISC. SKY COVER</b></p> <ul style="list-style-type: none"> <li> Haze</li> <li> Smoke</li> <li> Dust/Sand</li> <li> Fog in Patches</li> <li> Light Fog</li> <li> Heavy Fog</li> </ul>		<p><b>SHOWERS</b></p> <ul style="list-style-type: none"> <li> Slight Rain</li> <li> Moderate/Heavy Rain</li> <li> Violent Rain</li> <li> Sleet/Hail</li> <li> Slight Snow</li> <li> Moderate/Heavy Snow</li> </ul>																																																	
<p><b>Barometric Tendency</b></p> <table border="1"> <thead> <tr> <th colspan="4">Increase in Air Pressure over Last 3 Hours</th> <th colspan="4">Decrease in Air Pressure over last 3 Hours</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Rising, then Falling</td> <td>Rising, then Steady</td> <td>Rising Steadily</td> <td>Falling, then Rising</td> <td>Steady</td> <td>Falling, then Rising</td> <td>Falling, then Steady</td> <td>Falling Steadily</td> <td>Rising, then Falling</td> </tr> </tbody> </table>				Increase in Air Pressure over Last 3 Hours				Decrease in Air Pressure over last 3 Hours													Rising, then Falling	Rising, then Steady	Rising Steadily	Falling, then Rising	Steady	Falling, then Rising	Falling, then Steady	Falling Steadily	Rising, then Falling																						
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## 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

1/24/97 1595

## 7 - Weather Map Analysis

# Outline for Pressure/Wind

## I. Air Pressure

- a. What is it
- b. How is it exerted
- c. What measures air pressure
- d. How do difference in air pressure occur.

## II. Wind

- a. What is wind
- b. What causes wind
- c. Factors that affect wind
- d. What instrument measures wind

## III. High /Low Pressure

- a. Rotation
- b. Rising/sinking air

## IV. Global Winds

- a. general energy flow on globe
- b. major global wind

## V. Local Winds

- a. Sea/Land breeze
- b. Mountain/Valley breeze

## VI. El Nino and La Nina

- a. What are they
- b. Where are they
- c. What are the climatic effects
- d. What are their economic effects.