Daily Weather Log:

Keep records of daily weather conditions using weather instruments provided or created.

DAY	TIME	TEMP:	PRECIP.	AIR PRESSURE	HUMIDITY	WIND SPEED	WIND DIRECTION	CLOUD COVERAGE
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

TIME – Record the time the data is collected.

TEMP. – Record temperature in both Celsius and Fahrenheit.

PRECIP. – Record total amount of precipitation and indicate the type of precipitation you have observed (rain, sleet, snow, etc.).

AIR PRESSURE – Record the air pressure and indicate if it has raised or dropped since the last reading.

HUMIDITY – Record the percent humidity.

WIND SPEED – Record the wind speed (knots). Use the Beaufort Wind speed scale.

WIND DIRECTION – Record the wind direction.

CLOUD COVERAGE – Record the amount of clouds in the sky using the symbols on the back of this page.

Department of Environmental Protection

Weather Station Symbols

Cloud Coverage

- No Clouds
- 1/10
- 1/4
- 1/2
- 3/4
- 9/10
- Completely Overcast
- Sky Obscured

Wind Speed

- Calm
- < 5 knots
- 5 knots
- 10 knots
- 20 knots
- 25 knots
- 50 knots

Cloud Types

High Elevation

- Scattered Cirrus
- Dense Cirrus
- Cirrostratus
- Heavy Cirrostratus
- Cirrus & Cirrostratus

Middle Elevation

- Thin Altostratus
- Thick Altostratus
- Thin Altocumulus
- Heavy Altocumulus

Low Elevation

- Stratocumulus
- Fair Weather Cumulus
- Developing Cumulus
- Cumulonimbus
- Cirrocumulus
- Nimbostratus
- Stratus
- Fractostratus

Weather Conditions

INTERMITTENT

	Light	Moderate	Heavy
Rain	•	⁝	⁝
Snow	*	* *	* * *
Drizzle	,	;	;

STEADY

	Light	Moderate	Heavy
Rain	••	••	••
Snow	**	***	***
Drizzle	,,	,,,	,,,

THUNDERSTORMS

	Mild	Moderate	Severe
Rain	•	•	•
Snow	*	*	*
Hail	△	△	△

- Hail
- Snow Grains
- Tornado
- Ice Crystals
- Drifting Snow

Freezing Drizzle: Light, Heavy

Freezing Rain: Light, Heavy

Wind Direction

N, NE, E, SE, S, SW, W, NW

Wind comes FROM the direction of the arrow.

Air Pressure

- H High
- L Low

Fronts

- Warm
- Cold
- Stationary
- Occluded
- Warm (Aloft)
- Cold (Aloft)

MISC. SKY COVER

- Haze
- Smoke
- Dust/Sand
- Fog in Patches
- Light Fog
- Heavy Fog

SHOWERS

- Slight Rain
- Moderate/Heavy Rain
- Violent Rain
- Sleet/Hail
- Slight Snow
- Moderate/Heavy Snow

Barometric Tendency

Increase in Air Pressure over Last 3 Hours

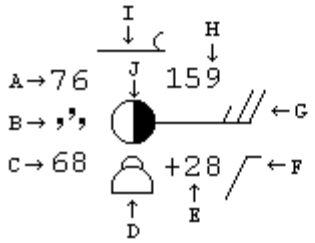
- Rising, then Falling
- Rising, then Steady
- Rising Steadily
- Falling, then Rising

Steady

Decrease in Air Pressure over last 3 Hours

- Falling, then Rising
- Falling, then Steady
- Falling Steadily
- Rising, 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

Magoff 1995