

# Atmosphere Investigation

## Integrated 7-Day Data Sheet

School Name \_\_\_\_\_ Study Site: ATM- \_\_\_\_\_

Day of the week							
Date							
Local time (hour:min)							
Universal time (hour:min)							
Observer names							

### Cloud Type (Check all types seen)

Cirrus	<input type="checkbox"/>						
Cirrocumulus	<input type="checkbox"/>						
Cirrostratus	<input type="checkbox"/>						
Altostratus	<input type="checkbox"/>						
Alto cumulus	<input type="checkbox"/>						
Cumulus	<input type="checkbox"/>						
Nimbostratus	<input type="checkbox"/>						
Stratus	<input type="checkbox"/>						
Stratocumulus	<input type="checkbox"/>						
Cumulonimbus	<input type="checkbox"/>						

### Contrail Type (Record the number of each type observed)

Short-lived							
Persistent Non-Spreading							
Persistent Spreading							

### Cloud Cover (Check one- if sky not obscured)

No clouds (0%)	<input type="checkbox"/>						
Clear (0% - 10%)	<input type="checkbox"/>						
Isolated (10% - 25%)	<input type="checkbox"/>						
Scattered (25% - 50%)	<input type="checkbox"/>						
Broken (50% - 90%)	<input type="checkbox"/>						
Overcast (90% - 100%)	<input type="checkbox"/>						
Sky obscured	<input type="checkbox"/>						

### Contrail Cover (Check one- if sky not obscured)

None	<input type="checkbox"/>						
0-10%	<input type="checkbox"/>						
10-25%	<input type="checkbox"/>						
25-50%	<input type="checkbox"/>						
>50%	<input type="checkbox"/>						

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**If Sky Obscured** (Check all that apply)

Fog	<input type="checkbox"/>						
Smoke	<input type="checkbox"/>						
Haze	<input type="checkbox"/>						
Volcanic ash	<input type="checkbox"/>						
Dust	<input type="checkbox"/>						
Sand	<input type="checkbox"/>						
Spray	<input type="checkbox"/>						
Heavy rain	<input type="checkbox"/>						
Heavy snow	<input type="checkbox"/>						
Blowing snow	<input type="checkbox"/>						

**Barometric Pressure**     Sea Level Pressure     Station Pressure

Barometric Pressure (mbar)							
Local Time (Hour:Min)*							
Universal Time (Hour:Min)*							

\* If different from other measurements

**Relative Humidity**

Dry bulb temperature (°C) - Sling Psychrometer							
Wet bulb temperature (°C) - Sling Psychrometer							
Relative humidity (%)							

**Rainfall**

Number of days rain has accumulated							
Rainwater in rain gauge (mm)*							

\* Remember: Record 0.0 when there has been no rainfall.  
 Record M for missing if there was rain and you weren't able to take an accurate reading.  
 Record T for trace if the amount of rainfall is less than 0.5 mm.

**Solid Precipitation**

Total snowpack on the ground:

Depth sample 1 (mm)							
Depth sample 2 (mm)							
Depth sample 3 (mm)							

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**Solid Precipitation (continued)**

New snow on the snowboard:

Number of days snow has accumulated on the snowboard:							
Depth sample 1 (mm)*							
Depth sample 2 (mm)*							
Depth sample 3 (mm)*							

Rain Equivalent:

Rain equivalent of new snow on the snowboard (mm)							
Rain equivalent of total snow-pack on the ground (mm)							

\* Remember: Record 0 when there has been no snowfall.  
 Record M for missing if there was snow and you weren't able to take an accurate reading.  
 Record T for trace amount of snowfall (too small to measure).

**Precipitation pH**

Measurement method for pH:  paper  meter

pH of the rain or melted snow:

pH sample 1						
pH sample 2						
pH sample 3						
Average						

pH of the melted snowpack:

pH sample 1						
pH sample 2						
pH sample 3						
Average						

**Maximum, Minimum, and Current Temperatures**

Current air temperature: (°C)						
Maximum daily air temperature: (°C)						
Minimum daily air temperature: (°C)						
Current soil temperature: (°C)*						
Maximum daily soil temperature: (°C)*						
Minimum daily soil temperature: (°C)*						

\*Note: Daily soil temperature measurements apply to those using a digital max/min thermometer with a soil probe.

**Add Comments on the back of this sheet: (Unusual conditions - date your comments)**