

Atmosphere Investigation

Integrated 1-Day Data Sheet

School Name: _____

Observer names: _____

Date: Year _____ Month _____ Day _____ Study Site: ATM- _____

Local Time (hour:min): _____ Universal Time (hour:min): _____

Cloud Type (Check all types seen)

High: Cirrostratus Cirrus Cirrocumulus
Middle: Altostratus Altocumulus
Low: Stratus Stratocumulus Cumulus
Rain or Snow-Producing: Nimbostratus Cumulonimbus

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%) Clear (0% - 10%) Isolated (10% - 25%) Scattered (25% - 50%) Broken (50% - 90%) Overcast (90% - 100%) Sky obscured

Contrail Cover (Check one- if sky not obscured)

None 0-10% 10-25% 25-50% >50%

If Sky Obscured (Check all that apply)

Fog Smoke Haze Volcanic ash Dust Sand Spray Heavy rain
 Heavy snow Blowing snow

Barometric Station Pressure

Barometric Pressure (mbar): _____ Sea Level Pressure Station Pressure

Local Time (Hour:Min)* _____

Universal Time (Hour:Min)* _____

* If different from other measurements

Relative Humidity

Dry bulb temperature* (°C): _____

(note: Current air temp. and dry bulb temp. should be similar)

Wet bulb temperature* (°C): _____

* Sling Psychrometer only.

Relative Humidity (%): _____

School Name _____ Study Site: ATM-_____

Rainfall

Number of days rain has accumulated: _____

Rainwater in rain gauge (mm)*: _____

**Remember: enter 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.

Snowfall

Daily: Number of days snow has accumulated on the snowboard: _____

Depth of new snow on the snowboard* (mm):

Sample 1: _____ Sample 2: _____ Sample 3: _____

Snow Pack: Total snow accumulation on the ground (mm):

Sample 1: _____ Sample 2: _____ Sample 3: _____

Rain equivalent of:

1. New snow on the snow board (mm): _____ 2. Total snowpack 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:

Sample 1: _____ Sample 2: _____ Sample 3: _____ Average: _____

pH of the melted snow pack:

Sample 1: _____ Sample 2: _____ 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.*

Comments (Unusual conditions):

