Atmosphere Investigation

Integrated 1-Day Data Sheet

* Required Field

School Name: _____ Study Site: _____

Observer names: _____

Date: Year_____ Month_____ Day____ Universal Time (hour:min): _____

Air Temperature

Current Temperature (°C): ____

Maximum Temperature (°C): ____ (record only when collected at Local Solar Noon)

Minimum Temperature (°C): ____ (record only when collected at Local Solar Noon)

Comments: _____

_____

Barometric Pressure

(Check one): ❑ Sea Level Pressure ❑ Station Pressure

Pressure (mb): ____

Comments: _____

_____

Relative Humidity

(Select instrument used):

❑ Sling Psychrometer	❑ Digital Hygrometer
Dry bulb temperature (˚C): _____	Ambient air temperature (˚C): _____
Wet bulb temperature (˚C): _____	Relative Humidity (%): _____

Comments: _____

_____

Precipitation (record only when collected at Local Solar Noon)

Days of accumulation: ____

Rainfall select one: ❑ Measurable ❑ Trace ❑ Missing
(if measurable is selected, complete the following fields)
Accumulation (mm): ____

Rain pH Measured With (select one): ❑ pH Paper ❑ pH Meter

pH of Rain: ____ (pH measurements only allowed when liquid amount is 3.5 mm or more)

Comments: _____

_____

* Required Field

Study Site: _____ Date: _____ Time (UT): _____

New Snowfall

Sample 1	Sample 2	Sample 3
Select one: ❑ Measurable ❑ Trace ❑ Missing	Select one: ❑ Measurable ❑ Trace ❑ Missing	Select one: ❑ Measurable ❑ Trace ❑ Missing
If measurable, record amount (mm): ____	If measurable, record amount (mm): ____	If measurable, record amount (mm): ____

Rain Equivalent of New Snow

Select one: ❑ Measurable ❑ Trace ❑ Missing
If measurable, record amount (mm): ____

Snowfall pH Measured with (select one): ❑ pH Paper ❑ pH Meter

pH of New Snowfall: ____ (pH measurements only allowed when liquid amount is 3.5 mm or more)

Comments: _____

_____

Snowpack

Sample 1	Sample 2	Sample 3
Select one: ❑ Measurable ❑ Trace ❑ Missing	Select one: ❑ Measurable ❑ Trace ❑ Missing	Select one: ❑ Measurable ❑ Trace ❑ Missing
If measurable, record amount (mm): ____	If measurable, record amount (mm): ____	If measurable, record amount (mm): ____

Rain Equivalent of Snowpack

Select one: ❑ Measurable ❑ Trace ❑ Missing
If measurable, record amount (mm): ____

Snowpack pH Measured with (select one): ❑ pH Paper ❑ pH Meter

Snowpack pH: ____ (pH measurements only allowed when liquid amount is 3.5 mm or more)

Comments: _____

_____

* Required Field

Study Site: _____ Date: _____ Time (UT): _____

Clouds

Sky Conditions (Check one):

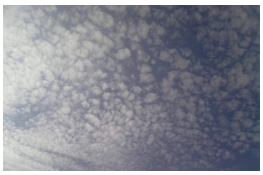
- ❑ Clear (no Clouds Visible)
- ❑ Clouds Visible (1% to 100% Covered by Clouds or Contrails)
- ❑ Obscured (More than 25% of the Sky is not Visible)

Note: selecting ***Obscured*** will prevent data entry on clouds and contrails; therefore skip the cloud type and cover and the contrail type and cover sections and proceed to the Obscured section. If clouds and contrails are visible in non-obscured areas of the sky, these data can be entered in the Metadata field.

If Clouds are Visible select all Cloud Types Seen

High (in the sky):
(Check all types seen)


❑ Cirrus


❑ Cirrocumulus


❑ Cirrostratus

Middle (of the sky):
(Check all types seen)


❑ Altostratus


❑ Altocumulus

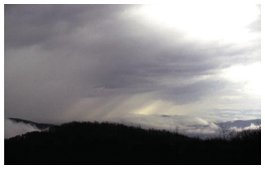
Low (in the sky):
(Check all types seen)


❑ Stratus


❑ Stratocumulus


❑ Cumulus

Rain or Snow Producing Clouds:
(Check all types seen)


❑ Nimbostratus


❑ Cumulonimbus

What Percent of the Sky is Covered by Clouds? (Check One) *Three-quarters or More of the Sky is Visible: Cloud Cover* (Check One)


No Clouds
❑ 0%


Clear
❑ >0 to10%


Isolated
❑ 10 to 25%


Scattered
❑ 25 to 50%


Broken
❑ 50 to 90%


Overcast
❑ >90%

* Required Field

Study Site: _____ Date: _____ Time (UT): _____

Are There Contrails in the Sky? (Check One) ❑ No Contrails ❑ Contrails are Visible

If Contrails are Visible Record the Number of Each Type Seen

Short-lived

Number Observed ☐

Persistent Non-Spreading

Number Observed ☐

Persistent Spreading

Number Observed ☐

What Percent of the Sky is Covered by Contrails? (Check one):

❑ 0 to10% ❑ 10 to 25% ❑ 25 to 50% ❑ >50%

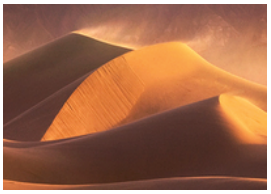
If you Selected Obscured (> 25% of the Sky is not Visible) Check all that apply:

❑ Blowing Snow

❑ Heavy Snow

❑ Heavy Rain

❑ Fog



❑ Sand

❑ Spray

❑ Volcanic Ash

❑ Smoke

❑ Dust

❑ Haze

Comments: _____

_____

_____