

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):

<input type="checkbox"/> Sling Psychrometer	<input type="checkbox"/> 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: _____

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

New Snowfall

Sample 1	Sample 2	Sample 3
Select one: <input type="checkbox"/> Measurable <input type="checkbox"/> Trace <input type="checkbox"/> Missing	Select one: <input type="checkbox"/> Measurable <input type="checkbox"/> Trace <input type="checkbox"/> Missing	Select one: <input type="checkbox"/> Measurable <input type="checkbox"/> Trace <input type="checkbox"/> 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: <input type="checkbox"/> Measurable <input type="checkbox"/> Trace <input type="checkbox"/> Missing	Select one: <input type="checkbox"/> Measurable <input type="checkbox"/> Trace <input type="checkbox"/> Missing	Select one: <input type="checkbox"/> Measurable <input type="checkbox"/> Trace <input type="checkbox"/> 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: _____

Sky Conditions (next page):

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



1. What is in Your Sky?

Total Cloud/Contrail Cover:

- Sky is Obscured →
- None (Go to box 2) Scattered (25-50%)
 Few (<10%) Broken (50-90%)
 Isolated (10-25%) Overcast (90-100%)

- Fog Sand
 Heavy Rain Spray Haze
 Heavy Snow Smoke Volcanic Ash
 Blowing Snow Dust

Go to box 6

*If you can observe sky color or visibility, complete box 2

2. Sky Color and Visibility

- Color (Look Up): Cannot Observe Deep Blue Blue Light Blue Pale Blue Milky
- Visibility (Look Across): Cannot Observe Unusually Clear Clear Somewhat Hazy Very Hazy Extremely Hazy

3. High Level Clouds

- No High Level Clouds Observed (Go to box 4)

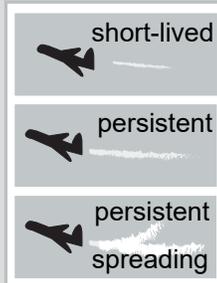
Cloud Type:

- Contrails (number of): → #
 Cirrus
 Cirrocumulus
 Cirrostratus

#

#

#



Cloud Cover:

- Few (<10%)
 Isolated (10%-25%)
 Scattered (25%-50%)
 Broken (50%-90%)
 Overcast (>90%)

Visual Opacity:

- Opaque
 Translucent
 Transparent

4. Mid Level Clouds

- No Mid Level Clouds Observed (Go to box 5)

Cloud Type:

- Altostratus Altocumulus

Cloud Cover:

- Few (<10%)
 Isolated (10%-25%)
 Scattered (25%-50%)
 Broken (50%-90%)
 Overcast (>90%)

Visual Opacity:

- Opaque
 Translucent
 Transparent

5. Low Level Clouds

- No Low Level Clouds Observed (Go to box 6)

Cloud Type:

- Fog Stratus
 Nimbostratus Cumulus
 Cumulonimbus Stratocumulus

Cloud Cover:

- Few (<10%)
 Isolated (10%-25%)
 Scattered (25%-50%)
 Broken (50%-90%)
 Overcast (>90%)

Visual Opacity:

- Opaque
 Translucent
 Transparent

6. Surface Conditions

Mandatory:

	Yes	No		Yes	No
Snow/Ice	<input type="radio"/>	<input type="radio"/>	Dry Ground	<input type="radio"/>	<input type="radio"/>
Standing Water	<input type="radio"/>	<input type="radio"/>	Leaves on Trees	<input type="radio"/>	<input type="radio"/>
Muddy	<input type="radio"/>	<input type="radio"/>	Raining/Snowing	<input type="radio"/>	<input type="radio"/>

Optional:

You may submit any or all

- Temperature: ___°C
 Barometric Pressure: ___mb
 Relative Humidity: ___%



Comments: _____