Atmosphere Investigation
Integrated 1-Day Data Sheet

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):

<table>
<thead>
<tr>
<th>□ Sling Psychrometer</th>
<th>□ Digital Hygrometer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry bulb temperature (°C): _________</td>
<td>Ambient air temperature (°C): _________</td>
</tr>
<tr>
<td>Wet bulb temperature (°C): _________</td>
<td>Relative Humidity (%): _________</td>
</tr>
</tbody>
</table>

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: _____________________________________________________________
_______________________________________________________________________
Atmosphere Investigation: Integrated 1-Day Data Sheet - Page 2

Study Site: ________________ Date: ________________ Time (UT): __________

New Snowfall

<table>
<thead>
<tr>
<th>Sample 1</th>
<th>Sample 2</th>
<th>Sample 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="https://example.com" alt="Select one:" /> Measurable</td>
<td><img src="https://example.com" alt="Select one:" /> Measurable</td>
<td><img src="https://example.com" alt="Select one:" /> Measurable</td>
</tr>
<tr>
<td><img src="https://example.com" alt="Select one:" /> Trace</td>
<td><img src="https://example.com" alt="Select one:" /> Trace</td>
<td><img src="https://example.com" alt="Select one:" /> Trace</td>
</tr>
<tr>
<td><img src="https://example.com" alt="Select one:" /> Missing</td>
<td><img src="https://example.com" alt="Select one:" /> Missing</td>
<td><img src="https://example.com" alt="Select one:" /> Missing</td>
</tr>
</tbody>
</table>

If measurable, record amount (mm): ____

Rain Equivalent of New Snow

Select one: ![Select one:](https://example.com) Measurable  ![Select one:](https://example.com) Trace  ![Select one:](https://example.com) Missing
If measurable, record amount (mm): ____

Snowfall pH Measured with (select one): ![Select one:](https://example.com) pH Paper  ![Select one:](https://example.com) pH Meter
pH of New Snowfall: ____ (pH measurements only allowed when liquid amount is 3.5 mm or more)

Comments: _____________________________________________________________

_______________________________________________________________________

Snowpack

<table>
<thead>
<tr>
<th>Sample 1</th>
<th>Sample 2</th>
<th>Sample 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="https://example.com" alt="Select one:" /> Measurable</td>
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</tr>
<tr>
<td><img src="https://example.com" alt="Select one:" /> Trace</td>
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</tr>
<tr>
<td><img src="https://example.com" alt="Select one:" /> Missing</td>
<td><img src="https://example.com" alt="Select one:" /> Missing</td>
<td><img src="https://example.com" alt="Select one:" /> Missing</td>
</tr>
</tbody>
</table>

If measurable, record amount (mm): ____

Rain Equivalent of Snowpack

Select one: ![Select one:](https://example.com) Measurable  ![Select one:](https://example.com) Trace  ![Select one:](https://example.com) Missing
If measurable, record amount (mm): ____

Snowpack pH Measured with (select one): ![Select one:](https://example.com) pH Paper  ![Select one:](https://example.com) pH Meter
Snowpack pH: ____ (pH measurements only allowed when liquid amount is 3.5 mm or more)

Comments: _____________________________________________________________

_______________________________________________________________________

Sky Conditions (next page):
### 1. What is in Your Sky?

**Total Cloud/Contrail Cover:**
- **Sky is Obscured**
- None (Go to box 2)
- Few (<10%)
- Isolated (10-25%)
- Scattered (25-50%)
- Broken (50-90%)
- Overcast (90-100%)

*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

**Sky is Obscured**

### 3. High Level Clouds

**Cloud Type:**
- Contrails (number of):
  - Cirrus
  - Cirrocumulus
  - Cirrostratus

### 4. Mid Level Clouds

**Cloud Type:**
- Altostratus
- Altocumulus

### 5. Low Level Clouds

**Cloud Type:**
- Fog
- Nimbostratus
- Cumulonimbus
- Stratocumulus

### 6. Surface Conditions

**Mandatory:**
- Snow/Ice
- Standing Water
- Muddy

**Optional:**
- Dry Ground
- Leaves on Trees
- Raining/Snowing

**Weather Conditions:**
- Temperature: ___ °C
- Barometric Pressure: ___ mb
- Relative Humidity: ___%