Atmosphere Investigation
One - Day Data Sheet

School Name: **GME WEST** Study Site: **GLOBE LAKE**

Observer names: 
Date: Year 2018 Month 09 Day 26 Universal Time (hour:min): 12:00 pm local

**Air Temperature**
Current Temperature (°C): **25**
Maximum Temperature (°C): ____ (record only when collected at Local Solar Noon)
Minimum Temperature (°C): ____ (record only when collected at Local Solar Noon)

**Surface Temperature**
Site's Overall Surface Condition (Select One): [ ] Wet [ ] Dry

<table>
<thead>
<tr>
<th>Sample</th>
<th>Temperature Degrees C</th>
<th>Surface Type (grass, soil, asphalt, concrete, other)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>28.7</td>
<td><strong>grass</strong></td>
</tr>
<tr>
<td>2</td>
<td>29.5</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>29.2</td>
<td></td>
</tr>
</tbody>
</table>

**Barometric Pressure**
(Check one): Sea Level Pressure [ ] Station Pressure (mb): ____

**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): <strong>25</strong></td>
</tr>
<tr>
<td>Wet bulb temperature (°C):</td>
<td>Relative Humidity (%): <strong>35</strong></td>
</tr>
</tbody>
</table>

**Precipitation** (record only when collected at Local Solar Noon)

Days of accumulation: ____ **N/A**

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)

**Compete the back portion of this sheet on clouds.**
Atmosphere Investigation: Cloud Protocol Data Sheet

School/Observer Name: GME WEST

Date (ex. 2017 01 13): Year: 2018 Month: 09 Day: 03
Time (ex. 24 Hour Clock: 14 26): Local: Hour _ _ Minute _ _ Universal: Hour _ _ Minute _ _

SEE GLOBE CLOUD CHART FOR VISUAL REFERENCE

1. What is in Your Sky?
   Total Cloud/Contrail Cover:
   ○ None (Go to box 2)
   ○ Few (<10%)
   ○ Isolated (10-25%)
   ○ Scattered (25-50%)
   ○ Broken (50-90%)
   ○ Overcast (90-100%)
   ○ Sky is Obscured

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

   *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

4. Mid Level Clouds
   ○ No Mid Level Clouds Observed (Go to box 5)
   Cloud Type:
   ○ Altostratus
   ○ Altocumulus

5. Low Level Clouds
   ○ No Low Level Clouds Observed (Go to box 6)
   Cloud Type:
   ○ Fog
   ○ Nimbostratus
   ○ Cumulus
   ○ Cumulonimbus
   ○ Stratus
   ○ Cumulonimbus

6. Surface Conditions
   Mandatory:
   ○ Snow/Ice
   ○ Standing Water
   ○ Muddy
   ○ Dry Ground
   ○ Leaves on Trees
   ○ Raining/Snowing

   Optional:
   Temperature: 25 °C
   Barometric Pressure: 1010 mb
   Relative Humidity: 35 %

Comments: