

# Atmosphere Investigation

## Surface Temperature Data Sheet

\* Required Field

School Name: \_\_\_\_\_ Study Site: \_\_\_\_\_

Observer names: \_\_\_\_\_

Date: Year \_\_\_\_\_ Month \_\_\_\_\_ Day \_\_\_\_\_ Universal Time (hour:min): \_\_\_\_\_

### \*Surface Temperature

Site's Overall Surface Condition (Select One):  Wet  Dry  Snow

Sample	Temperature Measurement (°C)	Snow Depth (mm) (*if snow selected above)
1		<input type="checkbox"/> zero <input type="checkbox"/> Trace (<10 mm) <input type="checkbox"/> Measureable (>10mm) _____ mm
2		<input type="checkbox"/> zero <input type="checkbox"/> Trace (<10 mm) <input type="checkbox"/> Measureable (>10mm) _____ mm
3		<input type="checkbox"/> zero <input type="checkbox"/> Trace (<10 mm) <input type="checkbox"/> Measureable (>10mm) _____ mm
4		<input type="checkbox"/> zero <input type="checkbox"/> Trace (<10 mm) <input type="checkbox"/> Measureable (>10mm) _____ mm
5		<input type="checkbox"/> zero <input type="checkbox"/> Trace (<10 mm) <input type="checkbox"/> Measureable (>10mm) _____ mm
6		<input type="checkbox"/> zero <input type="checkbox"/> Trace (<10 mm) <input type="checkbox"/> Measureable (>10mm) _____ mm
7		<input type="checkbox"/> zero <input type="checkbox"/> Trace (<10 mm) <input type="checkbox"/> Measureable (>10mm) _____ mm
8		<input type="checkbox"/> zero <input type="checkbox"/> Trace (<10 mm) <input type="checkbox"/> Measureable (>10mm) _____ mm
9		<input type="checkbox"/> zero <input type="checkbox"/> Trace (<10 mm) <input type="checkbox"/> Measureable (>10mm) _____ mm

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)
- Few (<10%)
- Isolated (10-25%)
- Scattered (25-50%)
- Broken (50-90%)
- Overcast (90-100%)

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

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)

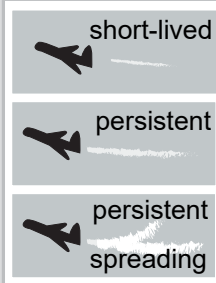
Cloud Type:

- 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
- Altcumulus

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
- Nimbostratus
- Cumulonimbus
- Stratus
- Cumulus
- 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	
Snow/Ice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Standing Water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Muddy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dry Ground	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Leaves on Trees	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Raining/Snowing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Optional:

You may submit any or all

Temperature: \_\_\_\_°C  
 Barometric Pressure: \_\_\_\_mb  
 Relative Humidity: \_\_\_\_%



Comments: