

# Atmosphere Investigation

## Aerosols : Data sheet

School name :

Oberserver names :

Date : Year \_\_\_\_\_ Month \_\_\_\_\_ Day \_\_\_\_\_

Study site : ATM-\_\_\_\_\_

Sun-Photometer serial number : **Calitoo** n° . . .

**Fill in this table and report your data to GLOBE** (Aerosols data entry pages).

Measurement number <sup>1</sup>	Local Time <sup>2</sup> (h : min : s)	Universal Time <sup>3</sup> (h : min : s)	Aerosols Optical Thickness (AOT)	Air temperature °C	Barometric Pressure (hPa or mbar)	Relative humidity %	$\alpha$	R2
1-Blue 465 nm								
1-Green 540 nm								
1-Red 615 nm								
2-Blue 465 nm								
2-Green 540 nm								
2-Red 615 nm								
3-Blue 465 nm								
3-Green 540 nm								
3-Red 615 nm								
4-Blue 465 nm								
4-Green 540 nm								
4-Red 615 nm								

<sup>1</sup> At least three sets of measurements are required.

<sup>2</sup> Ideally, time should be reported to the nearest 15 seconds, using an accurately set timepiece.

<sup>3</sup> Be careful when converting local time to UT.

**Barometric Pressure:**

◆ Sea Level Pressure

◆ Station Pressure

*Select data source (check one):*





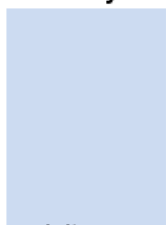
◆ Online or broadcast source






◆ Aneroid barometer

◆ Other barometer











### Sky Conditions

Cloud and contrail conditions (If sky not obscured, check the box for each cloud or contrail type you observe and check one box for cloud or contrail cover amount.)











Sky color				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>deep blue</b>  <b>bleu profond</b>	<b>blue</b>  <b>bleu</b>	<b>light blue</b>  <b>bleu lumineux</b>	<b>pale blue</b>  <b>bleu pâle</b>	<b>milky</b>  <b>laiteux</b>

Sky Clarity				
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>unusually clear</b>  <b>Inhabituellement clair</b>	<b>clear</b>  <b>clair</b>	<b>somewhat hazy</b>  <b>Légèrement brumeux</b>	<b>very hazy</b>  <b>Très brumeux</b>	<b>extremely hazy</b>  <b>Extrêmement brumeux</b>







### Sky obscured : ☐

<b>Blowing Snow</b> 	<b>Heavy Snow</b> 	<b>Heavy Rain</b> 	<b>Fog</b> 
<b>Sand</b> 	<b>Spray</b> 	<b>Volcanic Ash</b> 	<b>Smoke</b> 
<b>Dust</b> 	<b>Haze</b> 		

**Cloud Type** (Check all types seen)

High Level Clouds		Mid-Level Clouds		Low Level Clouds	
Cirrus	<input type="checkbox"/>	Altostratus	<input type="checkbox"/>	Cumulus	<input type="checkbox"/>
					
Cirrocumulus	<input type="checkbox"/>	Alto cumulus	<input type="checkbox"/>	Stratus	<input type="checkbox"/>
					
Cirrostratus	<input type="checkbox"/>			Stratocumulus	<input type="checkbox"/>
					
				Nimbostratus	<input type="checkbox"/>
					
				Cumulonimbus	<input type="checkbox"/>
					




**Cloud Cover** (Check one- if sky not obscured)

No clouds (0%) 	<input type="checkbox"/>
Clear (0%-10%) 	<input type="checkbox"/>
Isolated (10%-25%) 	<input type="checkbox"/>
Scattered (25%-50%) 	<input type="checkbox"/>
Broken (50%-90%) 	<input type="checkbox"/>
Overcast (> 90%) 	<input type="checkbox"/>
Sky obscured	<input type="checkbox"/>

**Contrail Type**

**and Contrail cover**

(Check one- if sky not obscured) (Record the number of each type observed)

Short lived : 
Persistent Non-spreading : 
Persistent Spreading : 

0 - 10 %	<input type="checkbox"/>
10 - 25 %	<input type="checkbox"/>
25 - 50 %	<input type="checkbox"/>
> 50 %	<input type="checkbox"/>

**Visual Opacity :**

Transparent

Translucent

Opaque



**Comments:** Describe conditions that could affect your measurements, such as urban smog, smoke from forest fires, blowing sand, or dust from agricultural activities. Also, include air temperature and relative humidity values that were obtained without following GLOBE protocols.