

# Site Definition Sheet

**\* Required Field**

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

Choose a unique name based on location,  
e.g. "Grassy area - Front of School"

Names of students completing Site Definition Sheet: \_\_\_\_\_

Date: Year \_\_\_\_\_ Month \_\_\_\_\_ Day \_\_\_\_\_ Check one:  New Site  Metadata Update

**\*Coordinates:** Latitude: \_\_\_\_\_ °  N or  S Longitude: \_\_\_\_\_ °  E or  W  
Elevation: \_\_\_\_\_ meters

**\*Source of Location Data** (check one):  GPS  Other \_\_\_\_\_

Comments: \_\_\_\_\_

**Site Type** (select all that apply based on intended measurements, then complete the necessary fields below):  Atmosphere  Surface Temperature  Hydrosphere  
 Biosphere Land Cover  Biosphere Greening  Biosphere Phenological Gardens  
 Biosphere Lilacs  Soil (Pedosphere) Characteristics  
 Soil (Pedosphere) Moisture and Temperature  Soil (Pedosphere) Frost Tube

**Cover type** (Select one):  Short grass (< 0.5m)  Tall grass (> 0.5m)  Barren land  
 Sand  Closed Forest (Trees interlocking)  Woodland (Trees not interlocking)  
 Shrubs  Dwarf Shrubs  Flowering Plants  Wetland  Cultivated Agricultural  
 Cultivated Recreational  Open Water  Bare Rock  Urban Residential  
 Urban Commercial  Asphalt  Concrete  Other  Land Cover site

**If you selected Closed Forest or Woodland, indicate the ground cover** (Select one):  
 Leaf Litter  Moss  Peat

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## Atmosphere

**List any obstacles** (Check one):  No obstacles  Obstacles (describe below)  
(Obstacles are trees, buildings, etc. that appear above 14° elevation when viewed from the site)

Description: \_\_\_\_\_

Buildings within 10 meters of instrument shelter (Check one):

No buildings  Buildings (describe below)

Description: \_\_\_\_\_

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## Other Site Data:

Steepest Slope: \_\_\_\_\_ Compass Angle (facing up slope): \_\_\_\_\_

Rain Gauge Height  cm      Ozone Clip Height  cm      Thermometer Height  cm

**\*Thermometer Type** (Check one):

- Other, Soil or Air
- Liquid-filled, Current Temperature Only
- Digital Single-Day Min/Max
- Digital Multi-Day Min/Max
- Reset Digital Multi-Day Min/Max Thermometer

**Note:** reset is required before data collection and entry, when batteries are changed or every 6 months

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

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

Was this reset due to a battery change?  Yes  No

- Earth Networks Station (Automated Station ID \_\_\_\_\_)
- Davis Instrument (Davis Thermometer Type \_\_\_\_\_)
- Data Logger (HOBO)
- Rainwise
- WeatherHawk
- No Thermometer

**Surface Cover Description** under instrument shelter (Check one):  Pavement

- Bare ground  Short grass (< 10 cm)  Long grass (> 10 cm)  Sand
- Roof (describe below)  Other (describe below)

Description: \_\_\_\_\_

Overall comments on the site (metadata): \_\_\_\_\_

### Surface Temperature

**Homogeneous site size** (Select one):  90m x 90m  30m x 30m  
 Smaller than 30 x 30m (specify size: \_\_ m x \_\_ m)

Type of IRT Instrument:  Raytech ST20  Other (specify instrument manufacturer and model) \_\_\_\_\_

Overall comments on the site (metadata): \_\_\_\_\_

### Hydrosphere

\***Name of Body of Water:** \_\_\_\_\_ (the name commonly used on maps; if the body of water does not have a common name, provide a description of the water body it comes from or flows into or both.)

\***Water Body Type** (Select one):  Unknown  Saltwater  Freshwater  Brackish

**Water Body Source** (Select one):

- Pond (Area of standing water \_\_\_ km<sup>2</sup>; Average Depth of Standing Water \_\_\_ m)
- Lake (Area of standing water \_\_\_ km<sup>2</sup>; Average Depth of Standing Water \_\_\_ m)
- Reservoir (Area of standing water \_\_\_ km<sup>2</sup>; Average Depth of Standing Water \_\_\_ m)
- Bay (Area of standing water \_\_\_ km<sup>2</sup>; Average Depth of Standing Water \_\_\_ m)
- Ditch (Area of standing water \_\_\_ km<sup>2</sup>; Average Depth of Standing Water \_\_\_ m)
- Ocean
- Estuary (Area of standing water \_\_\_ km<sup>2</sup>; Average Depth of Standing Water \_\_\_ m)
- Stream (Width of Moving water \_\_\_ m)
- River (Width of Moving water \_\_\_ m)
- Marsh/Swamp
- Agriculture

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

Puddles, animal and vehicle tracks

Other (Width of Moving water \_\_\_ m; Area of standing water \_\_\_ km<sup>2</sup>;  
Average Depth of Standing Water \_\_\_ m)

**Water Sample Location:**  Outlet  Bank  Bridge  Boat  Inlet  Pier

**Can you see the bottom?**  Yes  No

**Channel/Bank Material:**  Soil  Rock  Concrete  Vegetated Bank

**Bedrock:**  Granite  Limestone  Volcanics  Mixed Sediments  Unknown

**Freshwater Habitats Present:**  Rocky Substrate  Vegetated Banks  Mud Substrate

Sand Substrate  Submersed Vegetation  Logs

**Saltwater Habitats Present:**  Rocky Shore  Sandy Shore  Mud Flats/Estuary

Overall comments on the site (metadata): \_\_\_\_\_

## Biosphere

### Land Cover

**MUC Description:** Level 1: \_\_\_\_\_ Level 2: \_\_\_\_\_

Level 3: \_\_\_\_\_ Level 4: \_\_\_\_\_

\***MUC Code:** \_\_\_\_\_ **Note:** Use the MUC Guide to determine the greatest level possible within the MUC system

Overall comments on the site (metadata): \_\_\_\_\_

## Greening

Are there multiple dominant species?  Yes  No

### Primary Plant

Is this plant in the understory?  Yes  No

**Vegetation Type** (Select one):  Grass Genus: \_\_\_\_\_

Tree Genus: \_\_\_\_\_ Species: \_\_\_\_\_

Shrub Genus: \_\_\_\_\_ Species: \_\_\_\_\_

Label: \_\_\_\_\_

### Secondary Plant

Is this plant in the understory?  Yes  No

**Vegetation Type** (Select one):  Grass Genus: \_\_\_\_\_

Tree Genus: \_\_\_\_\_ Species: \_\_\_\_\_

Shrub Genus: \_\_\_\_\_ Species: \_\_\_\_\_

Label: \_\_\_\_\_

### Tertiary Plant

Is this plant in the understory?  Yes  No

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

**Vegetation Type** (Select one):  Grass Genus: \_\_\_\_\_  
 Tree Genus: \_\_\_\_\_ Species: \_\_\_\_\_  
 Shrub Genus: \_\_\_\_\_ Species: \_\_\_\_\_

Label: \_\_\_\_\_

If additional plants will be monitored record the information on another sheet or in your Science Log.

Overall comments on the site (metadata): \_\_\_\_\_

**Phenological Gardens**

**Soil Texture** (Select one):  Unknown  Sandy Clay  Sandy Clay Loam  
 Sandy Loam  Silty Clay  Silty Clay Loam  Silt Loam  Loamy Sand  Sand  
 Silt  Clay  Clay Loam  Loam  Organic

**Soil pH:** \_\_\_\_\_; **pH Method:**  pH Maper  pH Meter

Shrub Name	Date Planted
Witch Hazel 'Jelena'	
Witch Hazel 'Genuine'	
Lilac	
Mock-Orange	

Shrub Name	Date Planted
Forsythia	
Heather 'Allegro'	
Heather 'Long White'	
Snowdrops	

**Cloned and Common Lilac**

Lilac Shrub Name	Cloned or Common	Date Planted/Died	Height (cm)

**Soil (Pedosphere)**

**Soil Characteristics**

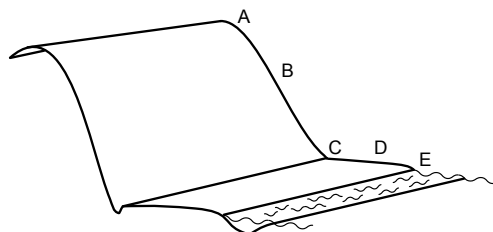
**Slope angle** (North, Northeast, etc.): \_\_\_\_\_

**Method** (select one):  Soil Pit  Auger Hole  Near Surface  Excavation  
 Road Cut  Erosion Cut

**Land Use** (Select one):  Urban  Agricultural  Recreation  Wilderness  
 Other \_\_\_\_\_

**Landscape Position** (Select one):

- A. Summit
- B. Slope
- C. Depression
- D. Large Flat Area
- E. Stream Bank





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

**Parent Material** (Select one):  Bedrock  Organic Material  Construction Material  
 Marine Deposits  Lake Deposits  Stream Deposits (Alluvium)  Wind Deposits (Loess)  Glacial Deposits (Glacial Till)  Volcanic Deposits  Loose Materials on Slope (Colluvium)  Don't Know  Other \_\_\_\_\_

**Distance from Major Features:** \_\_\_\_\_

**Soil Moisture and Temperature**

**Surface State** (Select one):  Natural  Plowed  Graded  Backfill  Compacted  
 Other \_\_\_\_\_

**Canopy Cover** (Select one):  Open  Some Trees (within 30m)  Canopy Overhead

Overall comments on the site (metadata): \_\_\_\_\_

**Frost Tube:**

*We recommend you also complete the atmosphere and surface temperature sections.*

**Date installed:** \_\_\_\_\_

Height above ground (cm): \_\_\_\_\_ Depth below ground (cm): \_\_\_\_\_ Total length (cm): \_\_\_\_\_

**Water body within 100m of site:**  No  Yes (complete below)

**Water body type** (Select one):  Unknown  Saltwater  Freshwater  Brackish

Direction to closest point of water:  N  NE  E  SE  S  SW  W  NW

**Landscape Position** (Choose one, see above in **Soil Characteristics**)

Overall comments on the site (metadata): \_\_\_\_\_

**Site Photos**

(record the appropriate photo number for easy identification during data entry)

North	South	East	West
Photo number _____	Photo number _____	Photo number _____	Photo number _____

Overall comments on the site (metadata): \_\_\_\_\_