Site Definition Sheet

**Required Field**

School Name: GME WEST

Site Name: GLOBE LAKE

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

Names of students completing Site Definition Sheet: ____________________________

Date: Year 2014 Month 09 Day 03 Check one: ☑ New Site ☐ Metadata Update

**Coordinates**: Latitude: 37.7872° N or ☑ S Longitude: 122.2762° 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)

☐ Shrubbery ☐ 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

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: ____________________________________________________________________________

Other Site Data:

Steepest Slope: ☑ NA

Rain Gauge Height 115 cm Ozone Clip Height cm Methane/CO2 Height 191 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

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School Name: GME-WEST Study Site: GLOBE LAKE Date: 09-03-18

Date: Year 2014 Month 09 Day 03 Universal Time (hour:min): 19:00
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: GLOBE LAKE (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 ___ km²; Average Depth of Standing Water ___ m)
☐ Lake (Area of standing water 100 km²; Average Depth of Standing Water 40 m)
☐ Reservoir (Area of standing water ___ km²; Average Depth of Standing Water ___ m)
☐ Bay (Area of standing water ___ km²; Average Depth of Standing Water ___ m)
☐ Ditch (Area of standing water ___ km²; Average Depth of Standing Water ___ m)
☐ Ocean
☐ Estuary (Area of standing water ___ km²; Average Depth of Standing Water ___ m)
☐ Stream (Width of Moving water ___ m)
☐ River (Width of Moving water ___ m)
☐ Marsh/Swamp
☐ Agriculture
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* Required Field

School Name: ___________________ Study Site: _______________ Date: _____________

☐ Puddles, animal and vehicle tracks
☐ Other (Width of Moving water ____ m; Area of standing water ____ km²; 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):

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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):

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Greening

Are there multiple dominant species? ☐ Yes ☐ No

Primary Plant

Is this plant in the understory? ☐ Yes ☐ No

Vegetation Type (Select one): ☐ Grass Genus: ___________________ Species: ___________________
☐ Tree Genus: ___________________ Species: ___________________
☐ Shrub Genus: ___________________ Species: ___________________

Label: ___________________

Secondary Plant

Is this plant in the understory? ☐ Yes ☐ No

Vegetation Type (Select one): ☐ Grass Genus: ___________________ Species: ___________________
☐ Tree Genus: ___________________ Species: ___________________
☐ Shrub Genus: ___________________ Species: ___________________

Label: ___________________

Tertiary Plant

Is this plant in the understory? ☐ Yes ☐ No

Label: ___________________