

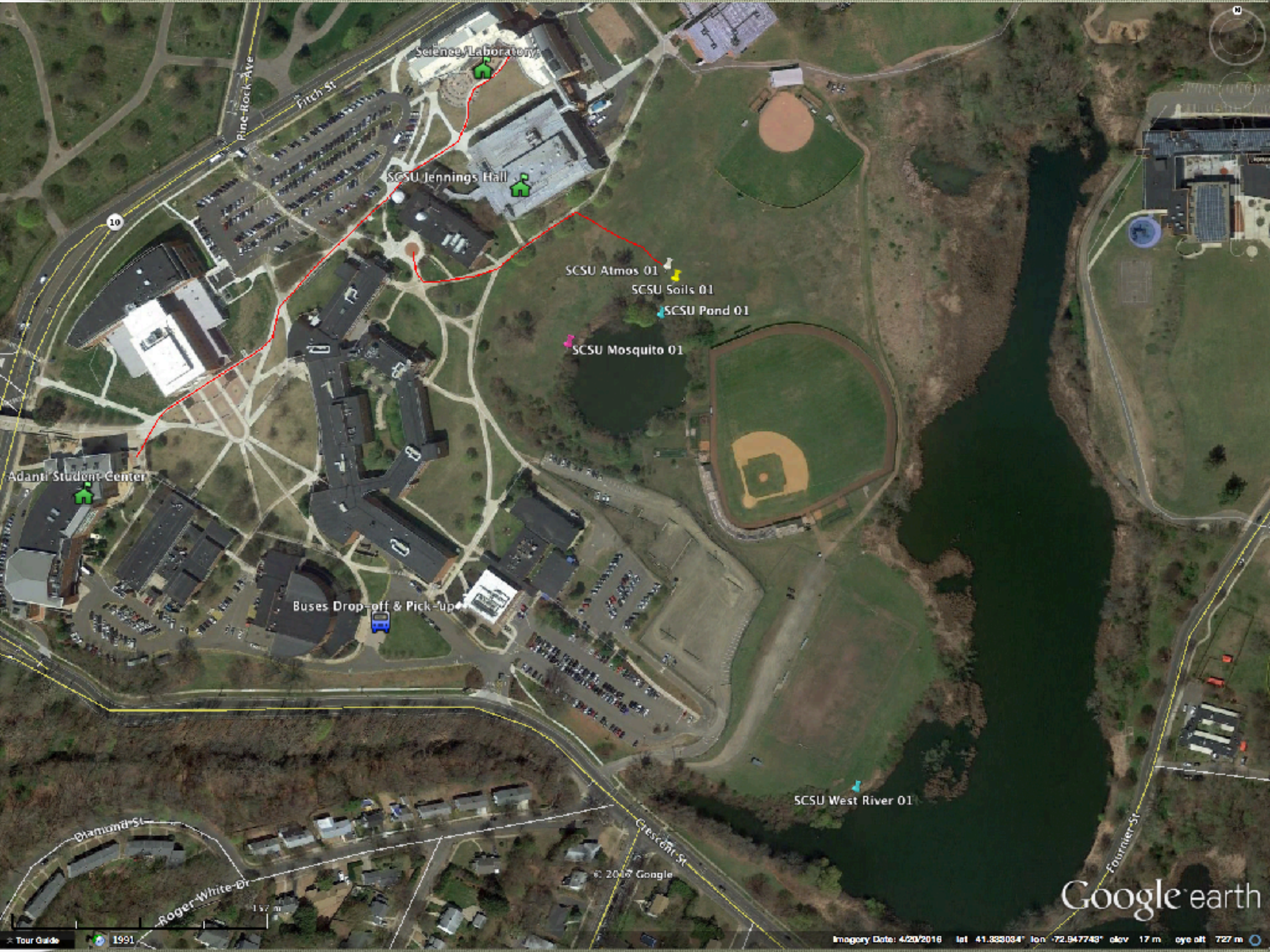


## *SCSU Campus |*

Field Sites: locations, descriptions, activities/protocols, procedures, timeline, rotation.







Science Laboratory

SCSU Jennings Hall

SCSU Atmos 01

SCSU Soils 01

SCSU Pond 01

SCSU Mosquito 01

SCSU West River 01

Adanti Student Center

Buses Drop-off & Pick-up

Diamond St

Roger White Dr

Gesmont St

Fournier St

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Google earth



***GLOBE Data Entry Site Names (for 21<sup>st</sup> Annual Meeting activities):***

***SCSU Campus sites / GLOBE Data Entry Site Definitions / Login to use these for Site Data Entry***

**SCSU Atmosphere site:ATM-01**

*Latitude 41.3334, Longitude -72.9441, Elevation 12m*

**CSU Pond 01**

*Latitude 41.333025, Longitude -72.944954, Elevation 12m*

**SCSU West River 01**

*Latitude 41.330475, Longitude -72.942783, Elevation 9m*

**SCSU Mosquitos 01**

*Latitude 41.333038, Longitude -72.945001, Elevation 12m*

**SCSU Soils 01**

*Latitude 41.333428, Longitude -72.944175, Elevation 12m*





# 21st Annual GLOBE Meeting

**Field Sites:** *locations, descriptions, activities/protocols, procedures, timeline, rotation.*

## **SCSU Campus | Atmosphere**

**Location:** *On Southern Connecticut State University Campus. Recreation area East of Jennings Hall, by the Beaver Pond and along the West River - eastern-most campus boundary.*

### **Descriptions: Atmosphere Site**

*Recreation area East of Jennings Hall, by the Beaver Pond at the installed weather box.*

### **Activities/Protocols: Atmosphere**

*Clouds App, Charts, Digital Min/Max Air/Soil temp.*

**Procedures:** *Use GLOBE Observer Clouds App and Data Entry App, Charts, etc. Cloud Cover, Cloud Types, Contrails, Weather Station Digital Min/Max Air/Soil Temperatures. Review 6 month Air/Soil temperate record, noting overall trend and variability.*

**Timeline:** *10:00 - 10:30am (may not take the full 30min)*

**Rotation:** *Atmosphere & Soils Teams rotate to Soil/SMAP.*







# 21st Annual GLOBE Meeting

**Field Sites:** *locations, descriptions, activities/protocols, procedures, timeline, rotation.*

## **SCSU Campus | Hydrosphere 01**

**Location:** *On Southern Connecticut State University Campus. Recreation area East of Jennings Hall, at the Beaver Pond and along the West River - eastern-most campus boundary.*

### **Descriptions: Hydrosphere Site**

*At the Beaver Pond near the installed weather box, under the canopy of trees lining the pond's northern edge.*

### **Activities/Protocols: Hydrosphere**

*Water temperature, Dissolved Oxygen, pH, Conductivity, Transparency.*

### **Procedures: Hydrosphere**

1. *Power Up LabQuest and insert Temp/DO/pH Probes*
2. *Cast bucket ~3-5m from shore, draw in and set on ground.*
3. *Immediately insert Temp, DO, pH Probes*
4. *Wait 3 minutes and if readings are stable, record readings; if not, swirl probes and wait another minute - record readings.*
5. *Remove Probes and insert either Conductivity or Salinity.*
6. *Wait 3 minutes and record readings, swirl and wait if readings not stable; record readings | If readings are still drifting, make note "drifting".*

**Timeline:** *10:00am to 11:00am & 11:00am to 12:00noon*

**Rotation:** *Hydrosphere 01 Team will rotate to Hydrosphere 02 @ 11:00am*







**Field Sites:** locations, descriptions, activities/protocols, procedures, timeline, rotation.

## SCSU Campus | Hydrosphere 02

**Location:** On Southern Connecticut State University Campus. Recreation area East of Jennings Hall, at the Beaver Pond and along the West River - eastern-most campus boundary.

### **Descriptions: Hydrosphere Site**

At the Beaver Pond near the installed weather box, under the canopy of trees lining the pond's northern edge.

### **Activities/Protocols: Hydrosphere**

Water temperature, Dissolved Oxygen, pH, Conductivity, transparency

### **Procedures: Hydrosphere**

1. Power Up LabQuest and insert Temp/DO/pH Probes
2. Cast bucket ~3-5m from shore, draw in and set on ground.
3. Immediately insert Temp, DO, pH Probes
4. Wait 3 minutes and if readings are stable, record readings; if not, swirl probes and wait another minute - record readings.
5. Remove Probes and insert either Conductivity or Salinity.
6. Wait 3 minutes and record readings, swirl and wait if readings not stable; record readings | If readings are still drifting, make note "drifting".

**Timeline:** 10:00am to 11:00am & 11:00am to 12:00noon

**Rotation:** Hydrosphere 02 Team will rotate to Hydrosphere 01 @ 11:00am







# 21st Annual GLOBE Meeting

**Field Sites:** locations, descriptions, activities/protocols, procedures, timeline, rotation.

## SCSU Campus | Hydrosphere

### Vernier LabQuest Base Unit & Probes:

#### **LabQuest Base Unit:**

This is a small Digital computer with ports for inserting a variety of probes.

#### **LabQuest Main Screen**

LabQuest immediately recognizes each Probe and should instantly show current readings.

#### **Procedures: Hydrosphere**

1. Power Up LabQuest and insert Temp/DO/pH Probes
2. Cast bucket ~3-5m from shore, draw in and set on ground.
3. Immediately insert Temp, DO, pH Probes
4. Wait 3 minutes and if readings are stable, record readings; if not, swirl probes and wait another minute - record readings.
5. Remove Probes and insert either Conductivity or Salinity.
6. Wait 3 minutes and record readings, swirl and wait if readings not stable; record readings | If readings are still drifting, make note "drifting".

**Trouble Shooting:** If the screen looks other than shown at right, press the "Home" button to return to current Probe Readings.







# 21st Annual GLOBE Meeting

**Field Sites:** *locations, descriptions, activities/protocols, procedures, timeline, rotation.*

## **SCSU Campus | Mosquitos 1 & 2**

**Location:** *On Southern Connecticut State University Campus. Recreation area East of Jennings Hall, at the Beaver Pond west edge.*

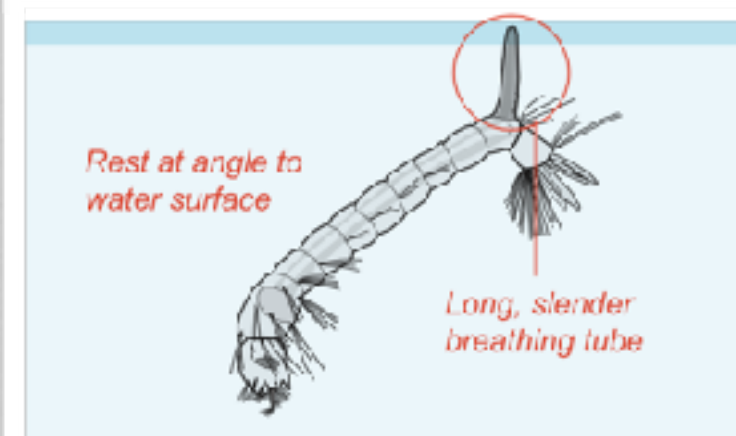
**Descriptions: Mosquito Site**  
*Beaver Pond Northwest shoreline site.*

**Activities/Protocols: Mosquito**  
*Follow Protocol guidelines, Mosquito Larvae ID charts.*

**Equipment:**  
*buckets, small nets, spoons, hallow trays, hand lenses, brushes, ID charts.*

**Timeline:** *10:00am to noon*

**Rotation:** *none - Mosquito Teams will stay on site.*







# 21st Annual GLOBE Meeting

**Field Sites:** *locations, descriptions, activities/protocols, procedures, timeline, rotation.*

## **SCSU Campus | SMAP/Soil**

**Location:** *On Southern Connecticut State University Campus. Recreation area East of Jennings Hall, by the Beaver Pond, near the Atmosphere Station.*

### **Descriptions: Soil/SMAP Site**

*Recreation area East of Jennings Hall, by the Beaver Pond at the installed weather box.*

### **Activities/Protocols/Equipment: SMAP/Soil**

*SMAP is priority - Soil Tins, 50m Tape Measures. If interested, a soil core will be pulled up; Characterization sheets, Auger, Meter sticks, Soil Color Guide, Soil Texture Guide.*

### **Procedures:**

*Auger Soil Core, Lay out SMAP Sampling Pattern.  
Follow Soil Characterization and SMAP Protocol Guidelines.*

**Timeline:** *10:30am to noon*

**Rotation:** *SMAP/Soil and Atmosphere Teams will stay on site, after participating in Atmosphere Protocol.*







# 21st Annual GLOBE Meeting

**Field Sites: locations, descriptions, activities/protocols, procedures, timeline, rotation.**

## SCSU Campus

### Field Activities | Protocols, Equipment, Timeline and Rotation

**Atmosphere:** ClipBoards/Pencils (1ea.), Cloud Charts (6), Kestrel/WeatherFlow (1), Sling Psychrometer (2), Weather Station with Digital Air & Soil Min/Max (1), GLOBE Observer and Data Entry Apps (√).

**\*Protocol Field Guide, Protocol Instructions, Data Sheets**

**Hydrosphere 1:** ClipBoards/Pencils (1ea.), Buckets (1), Vernier LabQuest (1), Probe/Temp (1), Probe/DO (1), Probe/pH (1), Probe/Conductivity (1), Transparency Tube (1), Stop Watch (1), MUC Guide (1), Squirr Bottle (1), Towel (1), Calibration Thermometer (1), GLOBE Observer and Data Entry Apps (√).

**\*Protocol Field Guide, Protocol Instructions, Data Sheets**

**Hydrosphere 2:** ClipBoards/Pencils (1ea.), Buckets (1), Vernier LabQuest (1), Probe/Temp (1), Probe/DO (1), Probe/pH (1), Probe/Conductivity (1), pH Test Strips (1), Stop Watch (1), MUC Guide (1), Squirr Bottle (1), Towel (1), GLOBE Observer and Data Entry Apps (√).

**\*Protocol Field Guide, Protocol Instructions, Data Sheets**

**Mosquitos 1:** ClipBoards/Pencils (1ea.), Buckets (1), Plastic Plates (1), Spoons (1), Ice Cube Trays (1), Mag Lens (5), small rulers (3), Paint Brushes (1), Tooth Picks (plenty), Calibration thermometer (1), Squirr Bottle (1), Napkins (plenty), Folding Table (1), GLOBE Observer and Data Entry Apps (√).

**\*Protocol Field Guide, Protocol Instructions, Data Sheets**

**Mosquitos 2:** ClipBoards/Pencils (1ea.), Buckets (1), Plastic Plates (1), Spoons (1), Ice Cube Trays (1), Mag Lens (5), small rulers (3), Paint Brushes (1), Tooth Picks (plenty), Calibration thermometer (1), Squirr Bottle (1), Napkins (plenty), Folding Table (1), GLOBE Observer and Data Entry Apps (√).

**\*Protocol Field Guide, Protocol Instructions, Data Sheets**

**Soil:** ClipBoards/Pencils (1ea.), 50m tapes (1), Auger (1), Meter Stick (1), Trowels (1), Soil Thermometer (1), Soil IR Gun (1), Mag Lens (1), Knife (1), Spoon (1) Soil Texture Chart (1), Soil Color Guide (2), Paper plates (plenty), Napkins (plenty), Squirr Bottles (2), GLOBE Observer and Data Entry Apps (√).

**\*Protocol Field Guide, Protocol Instructions, Data Sheets**

**SMAP:** ClipBoards/Pencils (1ea.), 50m Tapes (1), Meter Stick (1), Soil Tins (12), Trowels (1), Paper plates (plenty), Napkins (plenty), Squirr Bottles (2), GLOBE Observer and Data Entry Apps (√).

**\*Protocol Field Guide, Protocol Instructions, Data Sheets**

