GLOBE Water Transparency Data Sheets

With Secchi Disk

Print the Water Transparency Data Sheet:

- Water Transparency Data Sheet

Or select an alternative option below: :

- Water Transparency: Site Definition
  - Print this page the first time you visit a sampling site to record site definition data.
- Water Transparency with field guide (2 pages)
  - This data sheet has the field guide incorporated.

GLOBE Water Transparency Secchi Disk Data Sheet

Name: _____ Site Name: _____

Date: _____ Time (local): _____

Water State: ☐ Normal ☐ Flooded ☐ Dry ☐ Frozen ☐ Unreachable

If anything except Normal is selected, stop here!

Transparency Secchi Disk Measurements

Record measurements to **the nearest 0.1 m!**

Sample #1:

Distance from water surface to where:

Disk disappears: _____ m

Disk reappears: _____ m

OR

☐ Secchi Disk reaches the bottom and does not disappear.

Depth of water body:

_____ m

Sample #2:

Distance from water surface to where:

Disk disappears: _____ m

Disk reappears: _____ m

OR

☐ Secchi Disk reaches the bottom and does not disappear.

Depth of water body:

_____ m

Sample #3:

Distance from water surface to where:

Disk disappears: _____ m

Disk reappears: _____ m

OR

☐ Secchi Disk reaches the bottom and does not disappear.

Depth of water body:

_____ m

Comments:

Stop and Check: If for any sample the disappear and reappear depths differ by more than 0.1 m (10 cm), repeat the measurements.

GLOBE Water Transparency Secchi Disk Data Sheet: Site Definition

New Site Definition

Latitude: _____ Longitude: _____

Elevation: _____ m

Name of Water Body: _____

Water Body Type: ☐ Unknown ☐ Saltwater ☐ Freshwater ☐ Brackish

Optional New Site Definition Information

Water Body Source: _____

Can you see the bottom? ☐ Yes ☐ No

Water Sampling location:

☐ Outlet ☐ Bank ☐ Bridge ☐ Boat ☐ Inlet ☐ Pier

Channel/Bank Material:

☐ Soil ☐ Rock ☐ Concrete ☐ Vegetated Bank

Bedrock:

☐ Granite ☐ Limestone ☐ Volcanics ☐ Mixed Sediments ☐ Unknown

Freshwater Habitats Present:

☐ Rocky Substrate ☐ Vegetated Bank ☐ Mud Substrate ☐ Sand Substrate
☐ Submersed Vegetation ☐ Logs

Saltwater Habitats Present:

☐ Rocky Shore ☐ Sandy Shore ☐ Mud Flats/Estuary

If the water body source is a **river** or **stream**: Width of moving water: _____ m

If the water body source is a **pond, lake, reservoir, bay, ditch** or **estuary**:

Area of standing water: _____ km^2 • Average depth of standing water _____ m

Site Comments:

GLOBE Water Transparency Secchi Disk Data Sheet and Field Guide (page 1)

Name: _____ Site Name: _____

Date: _____ Time (local): _____

Water State: ☐ Normal ☐ Flooded ☐ Dry ☐ Frozen ☐ Unreachable

If anything except Normal is selected, stop here!

Transparency Secchi Disk Measurements

1. Stand so that the Secchi disk will be shaded or use an umbrella or piece of cardboard to shade the area where the measurement will be made.
2. All Secchi disk depths should be taken from the water surface. If you cannot reach the water surface, establish a reference point from the observer to the water, marking the reference point with a clothespin or waterproof tape. The reference point can be a railing, a person's hip, or the edge of a dock. Record this distance. If you are taking measurements from the surface of the water, record "0."

Distance from observer to water surface: _____ m

3. Lower the disk slowly into the water until it just disappears. Record the distance from the water surface to where the disk disappears to the nearest 0.1 m.

Sample #1. Distance from surface to where disk disappears: _____ m

4. Lower the disk another 0.1 m (10 cm) into the water, then raise the disk until it reappears. Record the distance from the water surface to where the disk reappears to the nearest hundredth of a meter (0.01 m, which is 1 cm).

Sample #1. Distance from surface to where disk reappears: _____ m

5. If the depths differ by more than 0.1 m (10 cm), repeat the measurement and record the new measurements.
6. If the Secchi disk reaches the bottom of the water body and does not disappear, leave the boxes above blank and record the depth from the surface of the water body to the bottom.

OR Sample #1. Depth to bottom of water body: _____ m

GLOBE Water Transparency Secchi Disk Data Sheet and Field Guide (page 2)

Record measurements to the **the nearest 0.1 m!**

Transparency Secchi Disk Measurements Continued

7. Repeat steps 1-6 twice more with different people observing. Record your data below.

Sample #2:

Distance from water surface to where:

Disk disappears: _____ m

Disk reappears: _____ m

OR

☐ Secchi Disk reaches the bottom and does not disappear.

Depth of water body:

_____ m

Sample #3:

Distance from water surface to where:

Disk disappears: _____ m

Disk reappears: _____ m

OR

☐ Secchi Disk reaches the bottom and does not disappear.

Depth of water body:

_____ m

Stop and Check:

If for any sample the disappear and reappear depths differ by more than 0.1 m (10 cm), repeat the measurement and record the new measurements.

Comments: