

# Activity 3 – My Green Down Data

## 1) Upload your data to globe.gov website

By uploading your data to the database on the GLOBE website, you will share them with other schools and scientists. You will also be able to view a graph of leaf color changes over time and have your data safely stored for your future research.

It is not complicated, just give it a try. Follow [the guide](#) we have prepared for you or see [GLOBE tutorials](#) that will guide you step by step.

All you need are the data you collected in Activities 1 and 2 and login to your GLOBE account.

Example of Completed Green-Down Data Sheet

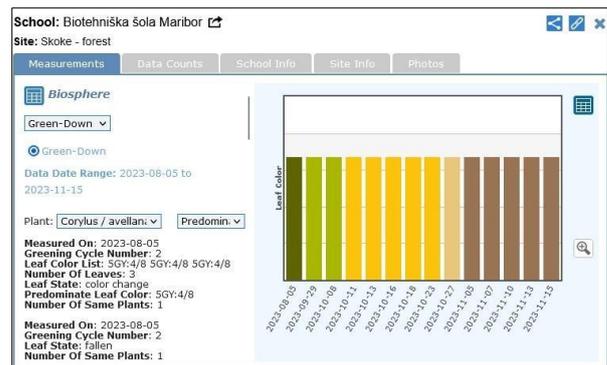
Date YYYY-MM-DD (year-month-day)	Growing season cycle (1, 2 or 3)	Leaf 1 (Color, fallen, snow covered)	Leaf 2 (Color, fallen, snow covered)	Leaf 3 (Color, fallen, snow covered)	Leaf 4 (Color, fallen, snow covered)	Data submitted to GLOBE
2013-09-30	1	5 G 7/4	5 G 7/4	5 G 7/4	5 G 7/4	<input type="checkbox"/>
2013-10-03	1	5 G 7/4	5 G 7/4	5 G 7/4	2.5 Y 8/6	<input type="checkbox"/>
2013-10-07	1	5 G 7/4	2.5 Y 8/6	5 G 7/4	2.5 Y 8/6	<input type="checkbox"/>
2013-10-11	1	5 G 7/4	2.5 Y 8/6	2.5 Y 8/6	2.5 Y 8/6	<input type="checkbox"/>
2013-10-14	1	5 G 7/4	2.5 Y 8/6	2.5 Y 8/6	2.5 Y 8/6	<input type="checkbox"/>
2013-10-16	1	2.5 Y 8/6	2.5 Y 8/6	2.5 Y 8/6	2.5 Y 8/6	<input type="checkbox"/>
2013-10-20	1	2.5 Y 8/6	2.5 Y 8/6	2.5 Y 8/6	7.5 YR 6/4	<input type="checkbox"/>
2013-10-23	1	2.5 Y 8/6	2.5 Y 8/6	2.5 Y 8/6	7.5 YR 6/4	<input type="checkbox"/>
2013-10-27	1	2.5 Y 8/6	2.5 Y 8/6	2.5 Y 8/6	7.5 YR 6/4	<input type="checkbox"/>
2013-10-30	1	2.5 Y 8/6	2.5 Y 8/6	7.5 YR 6/4	7.5 YR 6/4	<input type="checkbox"/>
2013-11-04	1	2.5 Y 8/6	7.5 YR 6/4	7.5 YR 6/4	fallen	<input type="checkbox"/>

## 2) See the graph of your tree color change at the GLOBE [Visualization tool](#)

Once your data are uploaded, you can see a graph of leaf color change and print it out

## 3) Compare easily your data to the data of another school at the GLOBE [Visualization tool](#)

- Filter out the Green Down data from schools in your country or any other location
- Compare the same species and see if the date of last leaf lost was the same
- Ask the students to think about why the last leaf lost date differs. Let them find out more about the specific conditions of the site where the tree grows (latitude, longitude, elevation, air temperature, precipitation)



If you are not familiar with the Visualization tool, please follow the [tutorials on the GLOBE website](#).

## 4) Share your graph on the [Discussion forum](#). Comment on how your data differ from data of other schools.

**We are here to help you.**

If you have any technical issue when uploading the data and working with Visualization tool, please contact us at [ee.region.globe@gmail.com](mailto:ee.region.globe@gmail.com). Most of the problems can be solved by one or two more clicks! We will tell you how to do it 😊

**The activity should be completed no later than December 5.**

**TIP:** To allow students to enter data from their observations, [create student accounts](#) for them.



- 🌱 **TIP: Return to the hypothesis** that you and your students formulated before you started your observations. Were you able to confirm or reject it? What other questions come to the students' minds?
- 🌱 **TIP: Your research is an inspiration to others. Don't keep the results to yourself.** Share them with your school and community, present them to the GLOBE community on a discussion forum, Virtual Student Conference or other occasions.

# Guide – How to upload data to the GLOBE Database

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There are three options for entering data into the GLOBE database. You can choose one option or try different ones and choose the one that suits you best. The data will always be uploaded to the same database and will be available for your further research.

## 1. New desktop forms (recommended)

A new way of entering data from a computer. A user-friendly approach similar to the one that you may know from the GLOBE Observer App. This data entry method is well documented in the online tutorials.

## 2. Mobile app – GLOBE Observer (recommended)

An easy way to enter greenings and tree height data from your mobile phone. You can download the app and find detailed instructions here: <https://observer.globe.gov/> . You will also find detailed video tutorials here: <https://www.globe.gov/get-trained/tutorial-center/data-entry>

## 3. Old desktop forms

This is the traditional way of entering data from a computer. You may be familiar with this way of entering data from earlier work with GLOBE data. Below you will find detailed instructions.

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## Entering data - desktop forms

Login to [globe.gov](https://globe.gov) with your account.

Click on the little arrow next to **Go to** and then select **Enter Data**.



This will automatically take you to the “Old desktop forms” interface. To switch to “New desktop forms” click on the arrow “Use New Data Entry”.



### To continue with “New desktop forms”

After choosing the “New desktop forms” option, you will be redirected to the screen below. Follow the New Data Entry Forms Tutorials that are available here: <https://www.globe.gov/get-trained/tutorial-center/data-entry>



### To continue with “Old desktop forms”

You will continue working on the initial data entry page. There you will see a list of your data sites (if you do not see any sites, click on the + next to the name of your school organization, the sites will unfold down).



As you can see, at my organization, I have already a site called “Phenology 2018”. This is a site where I have 2 trees.

## My Bookmarks

You have not bookmarked any investigations yet. Expand the organizations and click the stars next to the investigations to create a bookmark.

## My Organizations and Sites

**- TEREZA Educational Center** [Add site](#)

**- Phenology 2018** [Edit site](#) | [Delete site](#)  
Latitude 50.056891, Longitude 14.360912, Elevation 352.4m

**Greening**

Green Up/Green Down ★

[New observation](#) [Past observations](#)

**+ Vltava - Dvorakovo nabrezi** [Edit site](#) | [Delete site](#)  
Latitude 50.09319, Longitude 14.4213, Elevation 200m

**NOW:**

A) If you never uploaded data for your tree in past, you first need to **create a new site**. Continue to next page.

B) If you uploaded data for the same tree in past, you most likely know what to do: you select the site from your list and start **entering data**.

## 1. How to create a new site

In your Data Entry menu, click on **Add site** on the right from your school name. You will define your site now:

### Site Definition

**Add site type**

**Atmosphere**

Atmosphere

Surface Temperature

**Hydrosphere**

Hydrology

**Biosphere**

Land Cover

Greening

Phenological Gardens

Lilacs

**Pedosphere**

Frost Tube

Soil Characterization

Soil Moisture and Temperature

**Photos** →

**Site Name \*** \* indicates a field is required

**Coordinates**

**Latitude \***  °  North  South

**Longitude \***  °  East  West

**Elevation \***  m

**Source of Coordinates Data \***

GPS  Other



Fill in the **Site Name** and the **Coordinates**. The easy way is to use the map: zoom in and scroll until you find the site where your tree grows. Then move the red dot to that place, you already see that the coordinates got filled automatically. Elevation will be filled automatically as well if you click on Set elevation.

Then you have to choose from the menu on the left **Biosphere – Greening**, which means that this site can be used for recording data on Green Up and Green Down protocol. This will pop up:

The screenshot shows a web form titled "Greening" with a "Remove" link. On the left, there is a "Add site type" menu with categories: Atmosphere (Atmosphere, Surface Temperature), Hydrosphere (Hydrology), Biosphere (Land Cover, Greening, Phenological Gardens, Lilacs), and Pedosphere (Frost Tube, Soil Characterization, Soil Moisture and Temperature). The "Biosphere" category is circled in red, and the "Greening" option is checked. Below the menu is a "Photos" link. The main form area includes a "Comment" text box, a checkbox for "There are multiple dominant species", and a "Plants" section. The "Plants" section has a checkbox for "This plant is in the understory" and a "Remove" link. It features three dropdown menus: "Vegetation Type" (set to "Tree"), "Genus" (set to "Tilia"), and "Species" (set to "cordata"). A "Label" text box contains "School Tree 1". Below these fields are "Add plant" and "Create Site" buttons. The "Create Site" button is circled in red. A "Reset" button is located at the bottom right.

Fill in the **Vegetation Type** (tree), **Genus** (write in latin), **Species** (choose name in latin). Then **label** your tree according to how you call your tree. If you observe more than one tree at the same site, then click on green button **Add Plant** and do the same for your second tree.

After you finish this, click on blue button **Create Site**.

You will see green smiley if you are successful:

The screenshot shows a confirmation message: "Site created successfully." with a green smiley icon. Below this is a "Site Definition" section with a help icon. The "Add site type" menu is visible on the left. The "Site Name" field is filled with "Phenology 2018" and has a red asterisk indicating it is required. Below it, the "Site ID" is "125791" and the "Coordinates" field is empty. A legend at the bottom right states "\* indicates a field is required".

If something went wrong, you get this one. You have to add missing information (scroll down to find the place) and again confirm it.

Data Entry Home / TEREZA Educational Center / Phenology 2018

 Site update failed with 3 error(s).

- Label can't be blank.
- Vegetation type can't be blank.
- Taxon genus and species must both be selected.

## Site Definition ?

**Add site type** **Site Name** \* \* indicates a field is required

**Atmosphere**

Atmosphere

Surface Temperature

**Hydrosphere**

Coordinates

Phenology 2018

Site ID 125791

Congratulations, your site is ready now and you can start to enter the data!

THE GLOBE PROGRAM SCIENCE Data Entry

Data Entry Home / TEREZA Educational Center / Phenology 2018

 Site updated successfully.

## Site Definition

**Add site type** **Site Name** \* \* indicates a field is required

The shortest way to data entry page is to click on the **Data Entry Home** in the left upper corner.

You can as well go back to globe.gov and again use that **Go to – Enter Data** shortcut.

## 2. How to enter data to my site

Once you are back in data entry, click on your phenology (Greening) site. Click on **+** if you can't see it.

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### My Bookmarks ?

*You have not bookmarked any investigations yet. Expand the organizations and click the stars next to the investigations to create a bookmark.*

### My Organizations and Sites ?

- TEREZA Educational Center Add site
- Phenology 2018 Edit site | Delete site  
Latitude 50.056891, Longitude 14.360912, Elevation 352.4m
- Greening**

Green Up/Green Down ★

New observation
Past observations
- + Vitava - Dvorakovo nabrezi Edit site | Delete site  
Latitude 50.09319, Longitude 14.4213, Elevation 200m

Two options will pop up: New observation or Past Observations. Click on **New Observation**.

The first thing you have to do is to select a date. Pick the earliest date when you started to observe the leaf. After selecting the date, more fields will come: Select **Green Down** and fill in **Growing season cycle** (this will be mostly 1 for European region).

After filling this, the fields pop up for you to fill in data for each leaf. Under the heading Plants you see the name of your tree and four rows, each for one leaf:

Select **Leaf State** from drop down menu for each leaf.

Repeat for all your trees.

Confirm by clicking on the blue button **Send Data**

You will again see green smiley if you are successful.

To enter data for a **next date**, click on the blue link **Create a new one**. Then you repeat the steps.

To view the data you entered, click on **Past Observations**. You will see the list of your observations according to dates. Here you can correct the data (click on the date) or delete the record.

THE GLOBE PROGRAM **SCIENCE Data Entry** Welcome Bára Semeráková

[Data Entry Home](#) / [TEREZA Educational Center](#) / [Phenology 2018](#) / Green Up/Green Down

### Past Observations for Green Up/Green Down ?

From  To

Measured at time in UTC

1	<a href="#">2018-04-19 00:00 UTC</a>	<a href="#">Delete</a>
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The data entered you can see also on your **school page** under the heading Most Recent Measurements. You again go to globe.gov, then in **Go to** click on your school. This will bring you to your school page, then scroll down to see this:

### MOST RECENT MEASUREMENTS

Include citizen science sites

Site Name	Protocol	Protocol Set	Date
<a href="#">Phenology 2018</a>	Greening	Green Up/Green Down	04/19/2018