

# How to upload data and make graphs of Green Up (Spring Tree Observations)

Visegrad Fund



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GLOBE Program
Europe and Eurasia
Region Coordination Office











Implemented by: # UCAR



#### Aims of the Webinar

- What to do if I want students to upload data student accounts
- Show graphs from GLOBE Visualization Tool
- Go through Data Entry, incl. setting a data site for Green Up
- Help with the most common troubles
- Show the option of e-training Green Up/Down for teachers who are not trained yet

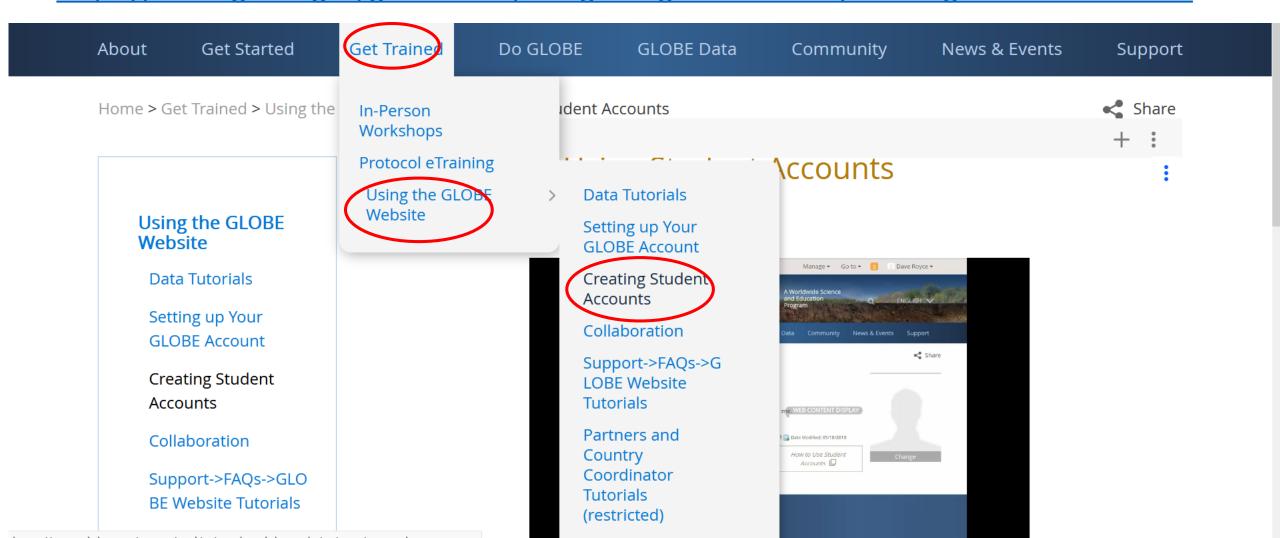


# PART 1

# STUDENTS ACCOUNTS

# Let students to enter the data! The only thing you need to do is create a student account for them:

https://www.globe.gov/get-trained/using-the-globe-website/creating-student-accounts



## Student Accounts Summary

#### Any Teacher can create up to 50 student accounts

Students can log in with their student account, and:

- Enter Data on behalf of their teacher
- Post comments and questions to forums
- "Friend" someone and post on their wall

#### Students can not:

- Change their school page
- Have a My page which they can change
- Change their password, username or any other information about themselves
- Send or Receive email from their account

#### **Student Accounts**

- Should not include a student's name
- Are automatically "Friended" to their teacher so the teacher can always see what they post
- Are automatically deleted when the teacher account is deleted

#### Where I should go to create a student account?

• Sign in, click on your photo (upper right) and select My Page. This will take you to your personal page. Scroll down on the page to see "Create Student Accounts/View Student"

Account"

Iome > Bára Semeráková



#### Bára Semeráková

Collaboration

Blog

Member Activities

#### Ms. Bára Semeráková



Europe and Eurasia Region Coordination Office Representative

Europe and Eurasia

I work as a representative of Region Coordination Office for GLOBE Europe and Eurasia since July 2012. However my first encounter with GLOBE started during my studies at high school when I joined the program as a student (1997-1999). I beleive it was thanks to GLOBE and our biology teacher that I chose environment and nature protection as my field. I have studied Environmental Science at Faculty of Natural Sciences, Charles University in Prague, Czech Republic. Later I got involved with the national coordinator of the GLOBE Program in my country, TEREZA Association, and became one of the "Czech GLOBE team".

As a coordinator I was in charge of piloting the ESSP Carbon Cycle Project activities together with Czech schools (2006-2009). Since that time, my work has been dedicated to introduce and promote Inquiry-Based Science Education into classrooms in the Czech Republic.





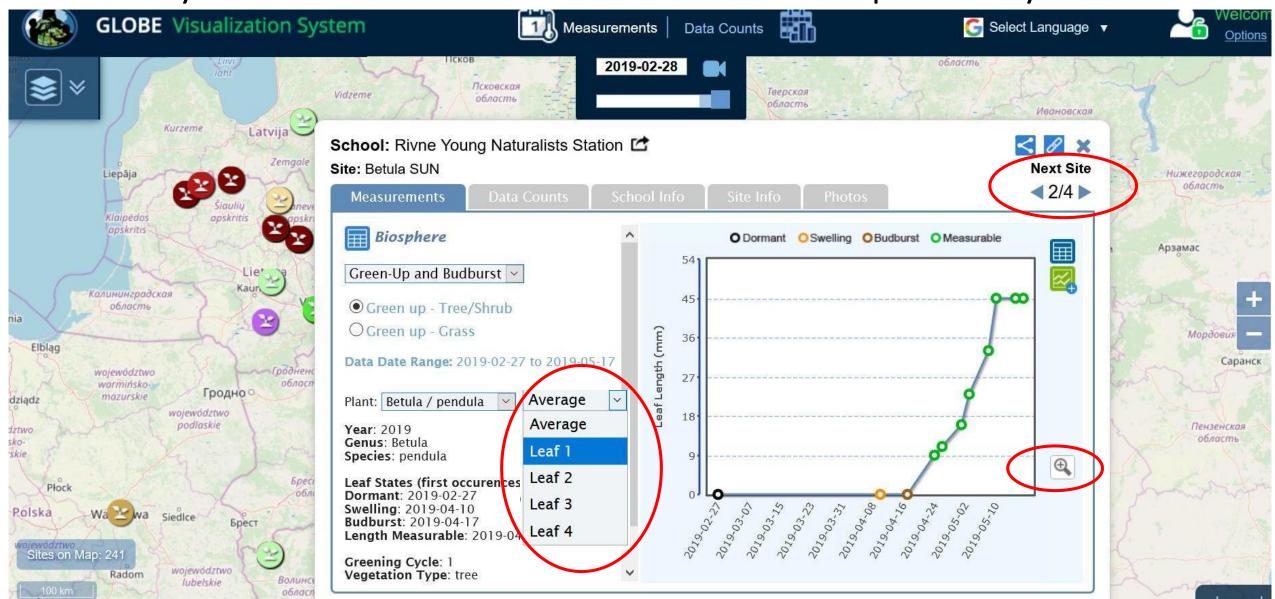
Delete



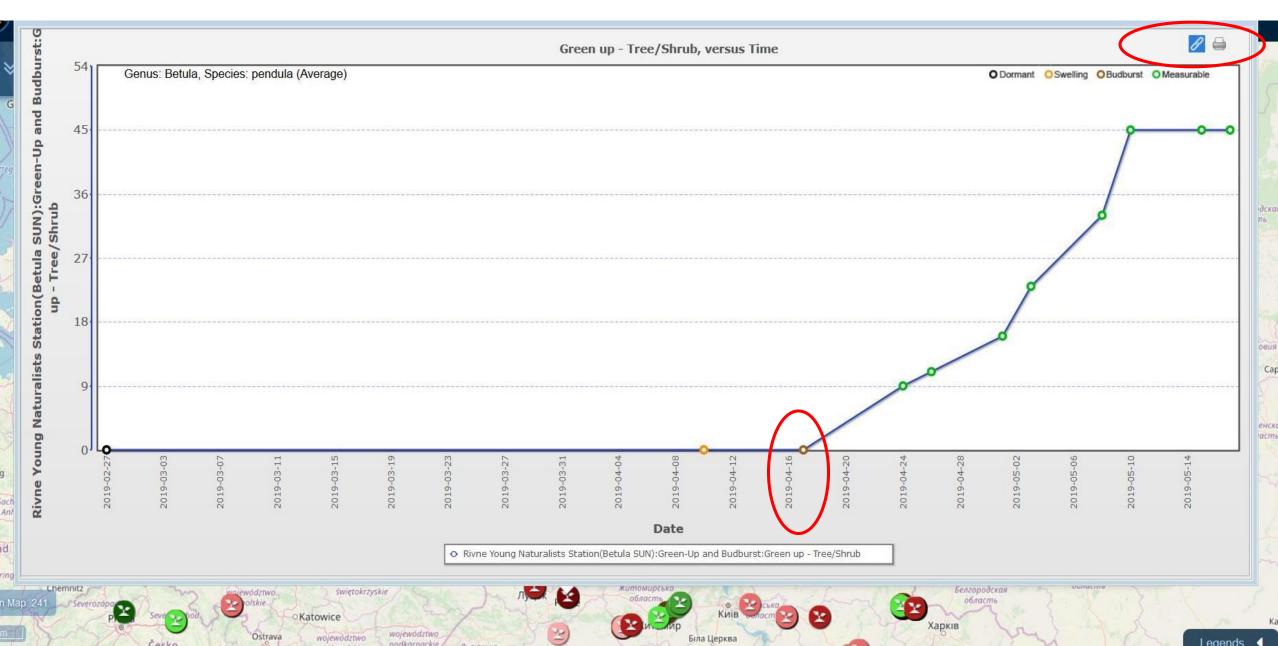
### PART 2

# HOW TO MAKE GRAPHS AND WONDERS OF VISUALIZATION TOOL

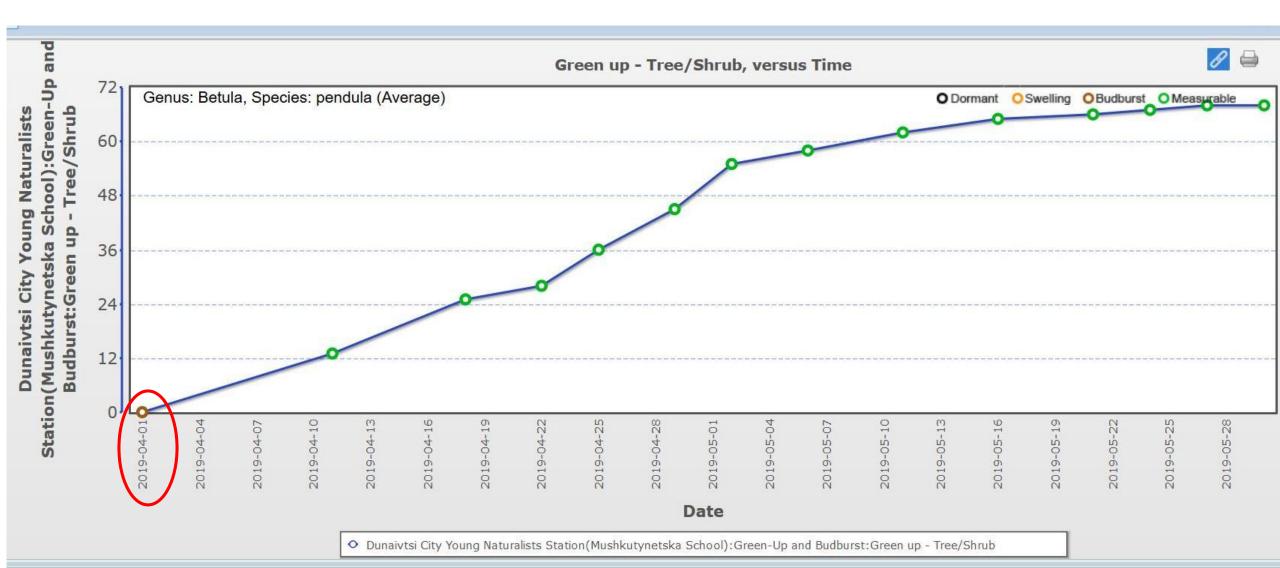
# You can see a graph showing data you collected. Now you can see data for each leaf separately!



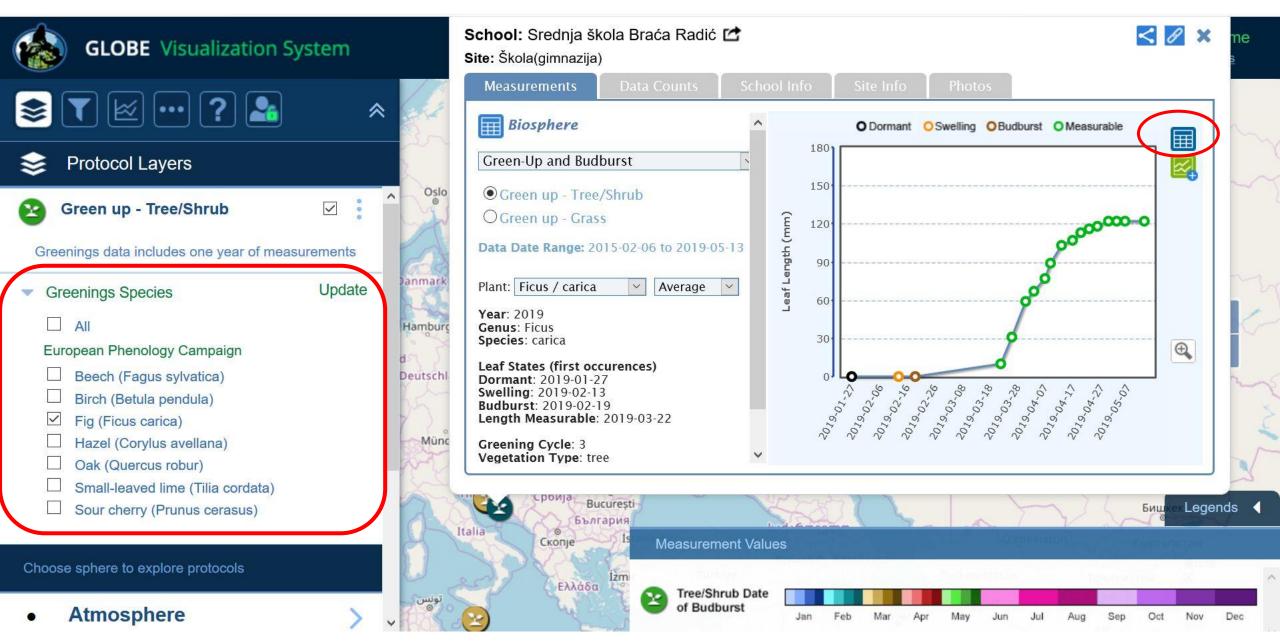
# Enlarge, download and print out the graph



# The same tree species, but the budburst was reported 17 days earlier at this site than in the previous one!



### In the layer, filter out selected tree species



#### See and download the data in a table

Srednja škola Braća Radić :	Škola(gimnazija) Data Ta	ible							-
School Name	Site Name	Userid	Latitude	Longitude	Elevation	Measured On	Year Grooning Ovelo Number	Vegetation Type	Genu
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-05-13	201 School Name	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-05-13	201 ✓ Site Name ✓ Userid	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-05-13	201 Latitude	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-05-13	201 Longitude	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-05-06	201 Elevation	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-05-06	<sup>201</sup> ✓ Measured On	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-05-06	201 Year	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-05-06	201 Greening Cycle Number	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-05-03	201 Vegetation Type	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-05-03	201 Genus	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-05-03	<sup>201</sup> ✓ Species	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-05-03	201 In Understory	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-04-30	201 ✓ Stage	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-04-30	201 Leaf State	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-04-30	201 🗹 Leaf Color List	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-04-30	201 Number Of Leaves	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-04-26	20: 2	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-04-26	2019 3	tree	Ficus
Srednja škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-04-26	2019 3	tree	Ficus
Srednia škola Braća Radić	Škola(gimnazija)	11951060	43.5494	16.3406	4	2019-04-26	2019 3	tree	Ficus

Click this icon to view data tables for all of your data

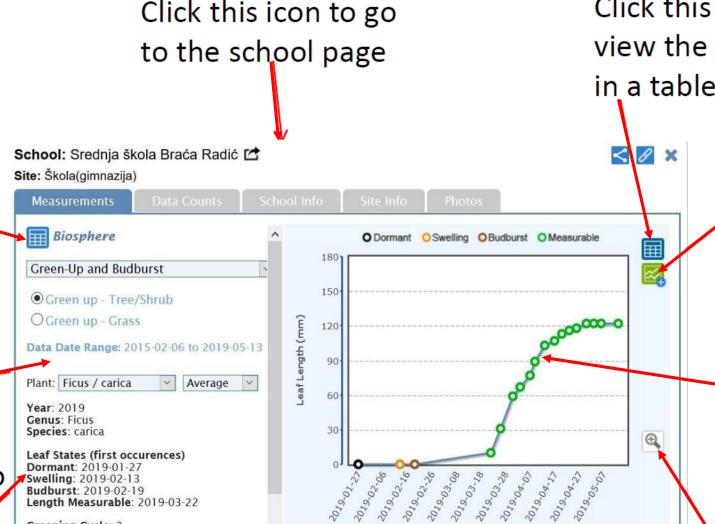
Data at this site can be found in this date range

Measurement info for the selected data type

Budburst: 2019-02-19

Greening Cycle: 3 Vegetation Type: tree

Length Measurable: 2019-03-22



Click this icon to view the plot data in a table

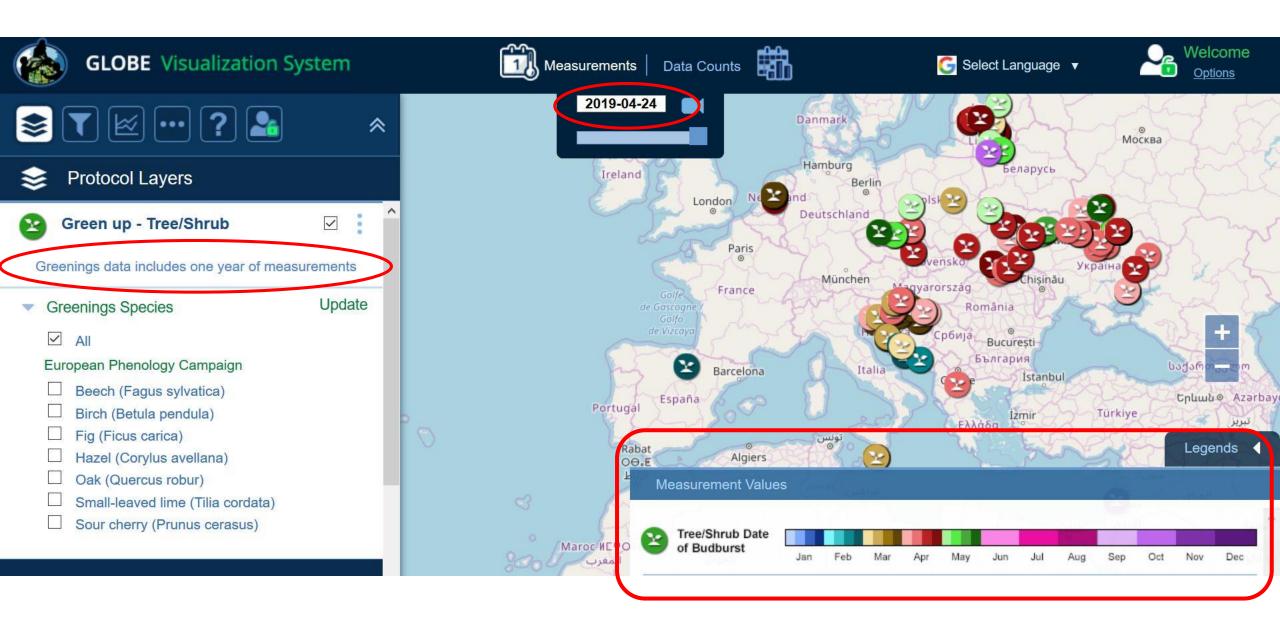
> Click this icon to add the site to a multilate time series plat

Roll-over a plot point to see measurement value and date

Click the zoom icon for a larger plot view

Change plot time range

### What the site colors say: See the legend



#### What you can do in Visualization Tool:

- See the data you collected
- Filter data according to tree species
- Select a school and see their data in graph or spreadsheet (table)
- Download and print out the graph or share the link to the graph
- Download or print the spreadsheet and then analyze, sort or filter the data in Excel or similar software

#### How to get fast to GLOBE visualization tool

**Go to Your School Page:** You again go to globe.gov (sign in needed), then click on the menu in the upper left corner, click on My Organization and select your **school**. This will bring you to your school page, then scroll down to see either your **School Data Sites** or even more down your **Most Recent Measurements**:

#### SCHOOL DATA SITES

#### ☑ Include citizen science sites

•	Site Name	Investigation Area	# Observations	Created	Last Used
	35ULQ309213	Atmosphere, Biosphere	11	08/02/2019	09/02/2019
	35ULQ310200	Biosphere	3	09/01/2019	09/01/2019

#### MOST RECENT MEASUREMENTS

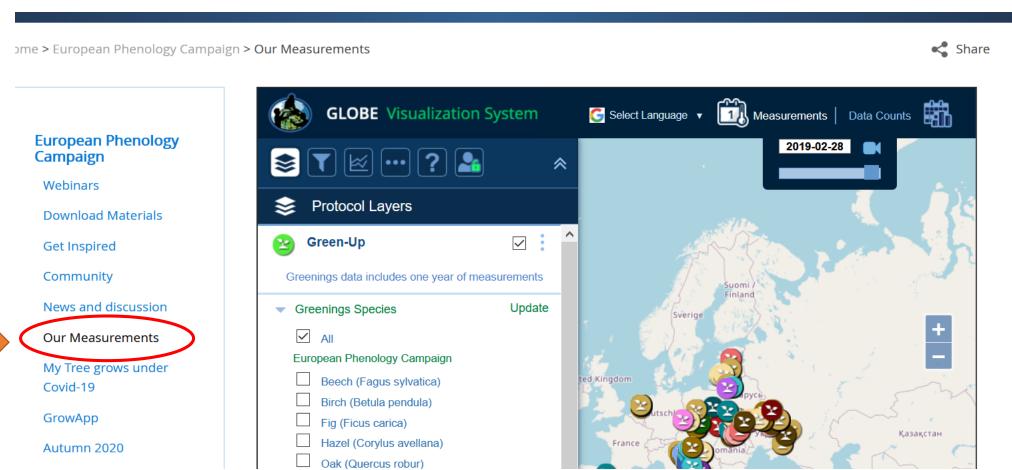
□ Include citizen science sites

Site Name	Protocol	Protocol Set	Date
Phenology 2018	Greening	Green Up/Green Down	04/19/2018

#### How to get fast to GLOBE visualization tool

Go to Campaign Page and select *Our Measurements* 

https://www.globe.gov/web/european-phenology-campaign/overview/our-measurements



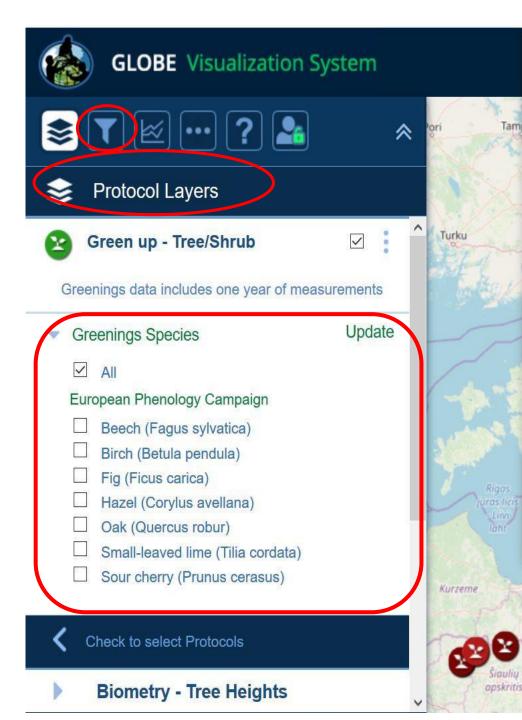
#### How to start:

In Protocol Layers, select Biosphere and Green Up:

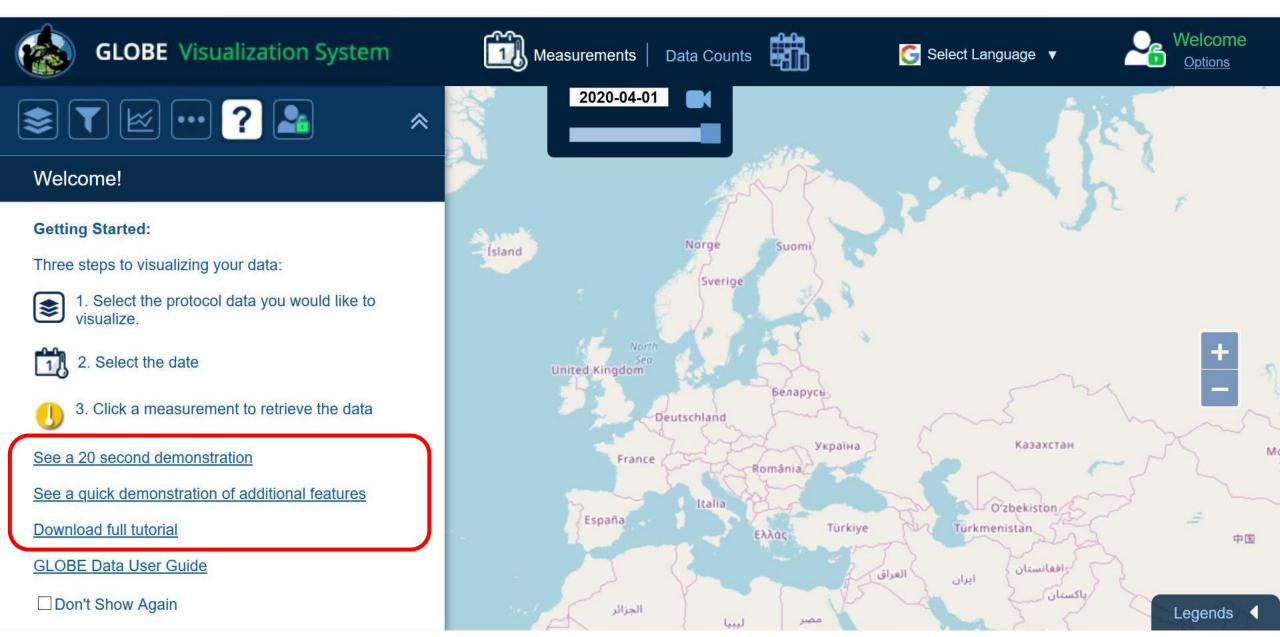
- Then you can see a detail of any site, or
- filter out only the sites with a particular tree, or
- filter out sites according country, altitude and so many other things.

Quick videoguide is right in the Visualization tool – see next slide!

Learn how to do that — see GLOBE guides and tutorials: <a href="https://www.globe.gov/get-trained/using-the-globe-website/retrieve-and-visualize-your-data">https://www.globe.gov/get-trained/using-the-globe-website/retrieve-and-visualize-your-data</a>



#### Watch videoguides and download pdf guide



## PART 3

# HOW TO UPLOAD DATA

## **Training Data Entry**

To practice data entry always go to:

GLOBE Data / Data Entry / Training Data Entry



# Real Data Entry

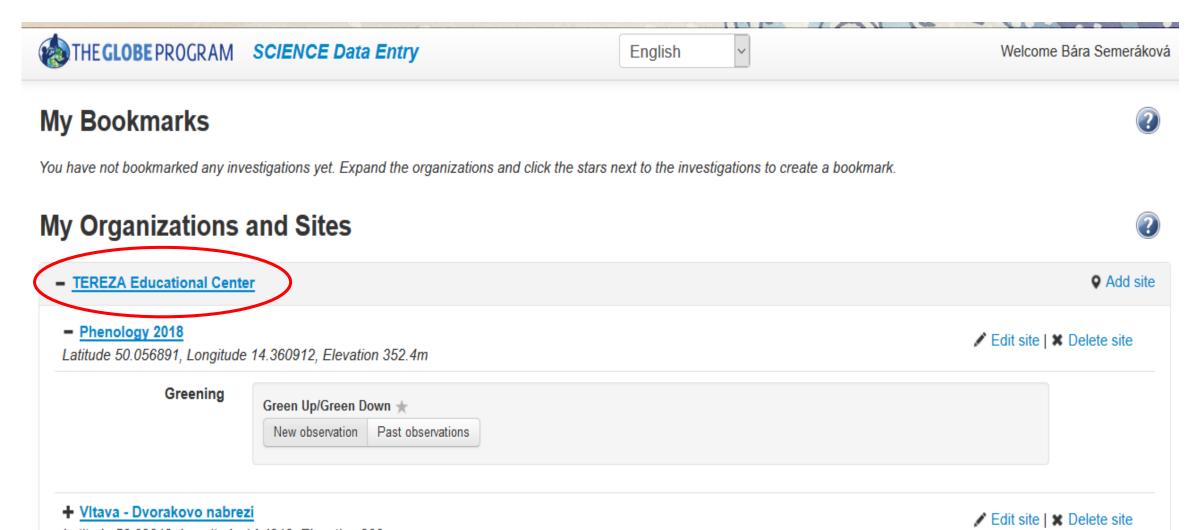
To enter real data always go to:

Data Entry from the homepage or from Menu in the upper left corner



This will take you to the list of your data sites (if you do not see any sites, click on the + next to the name of your school, the sites will unfold down).

As you can see, at my organization (=school), I have already a site called **Phenology 2018**. This is a site where I have 2 trees.



# Why and how to create a Study Site

- If you never uploaded data for your tree in past, you first need to **create a new site**.
- It is not difficult!
- You just need to add the coordinates (GPS) this can be easily done on the map
- After that you add the trees you observe.

Study site is important, otherwise how would you see on the map where the trees are located?

~

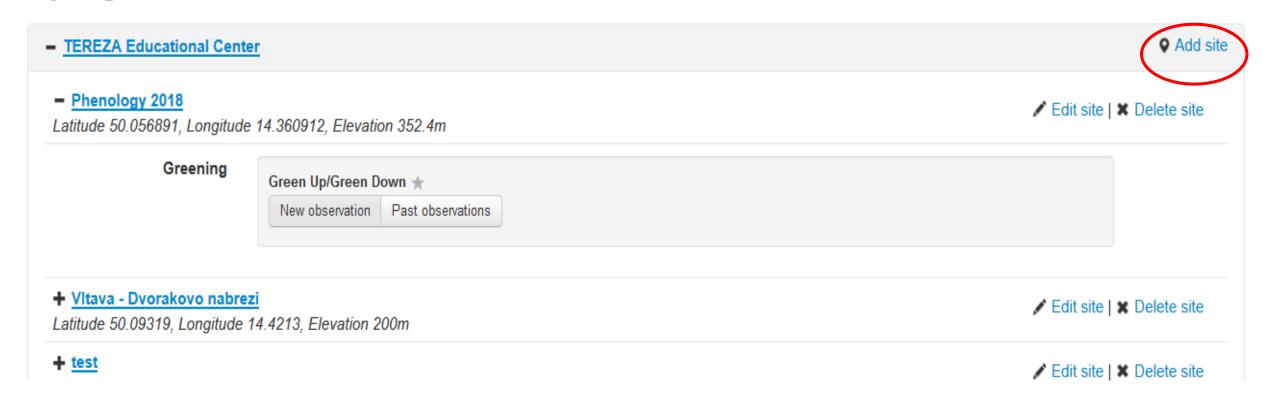
#### My Bookmarks



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

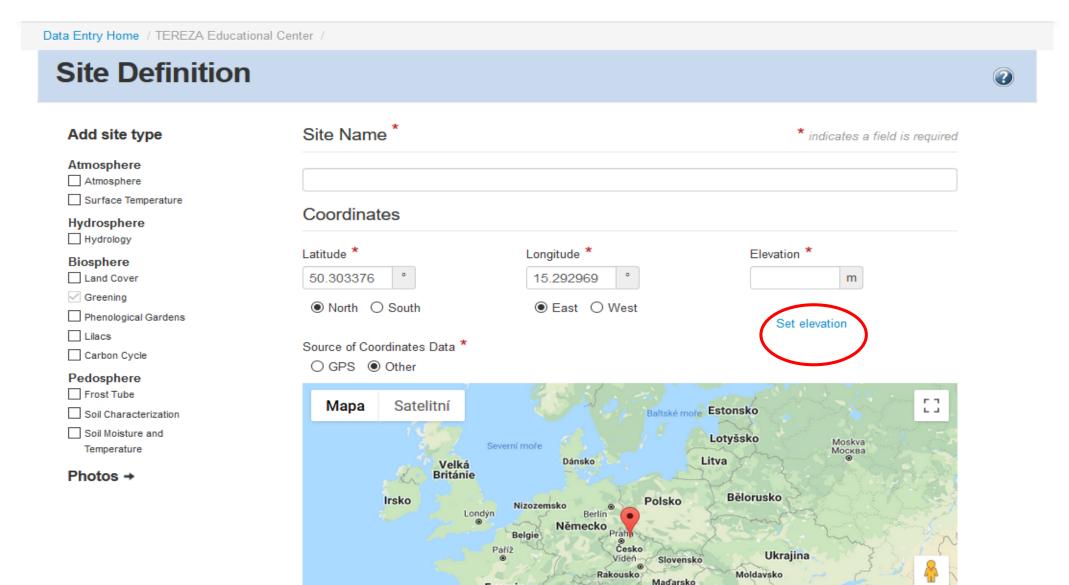
#### My Organizations and Sites



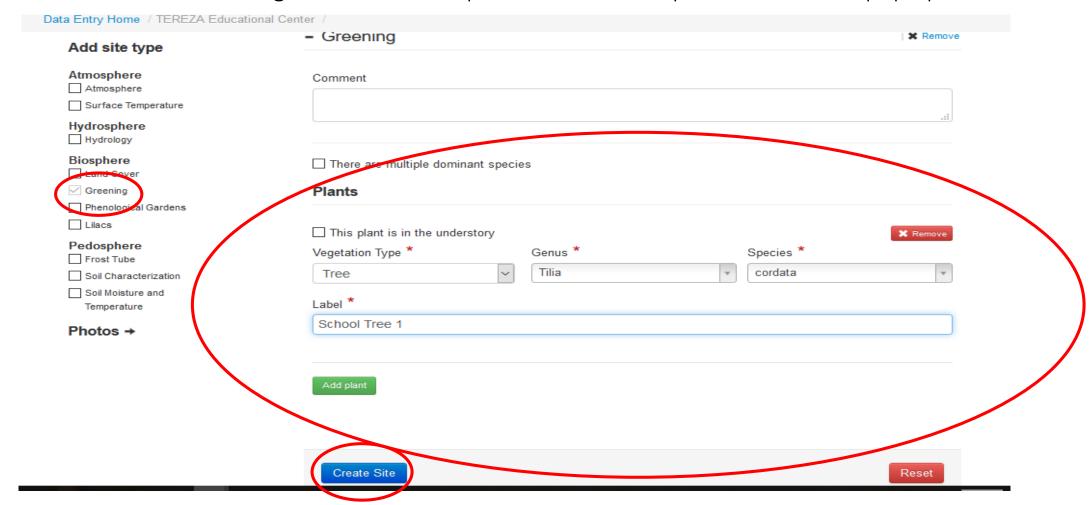


Fill in the **Site Name** and the **Coordinates**. The easy way is to use the map: zoom in and scroll until you find the site where your tree grows. Then move the red dot to that place, you already see that the coordinates got filled automatically.

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:



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. **If the site has a specific condition, leave a comment**. After you finish this, click on blue button **Create Site**.



Site created successfully.

#### **Site Definition**



#### Add site type

#### Atmosphere

- Atmosphere
- Surface Temperature

#### Hydrosphere

Hydrology



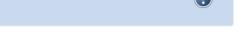
Data Entry Home / TEREZA Educational Center / Phenology 2018



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**



\* indicates a field is required

Add site type Atmosphere ☐ Atmosphere

☐ Surface Temperature

Hydrosphere

Site ID 125791

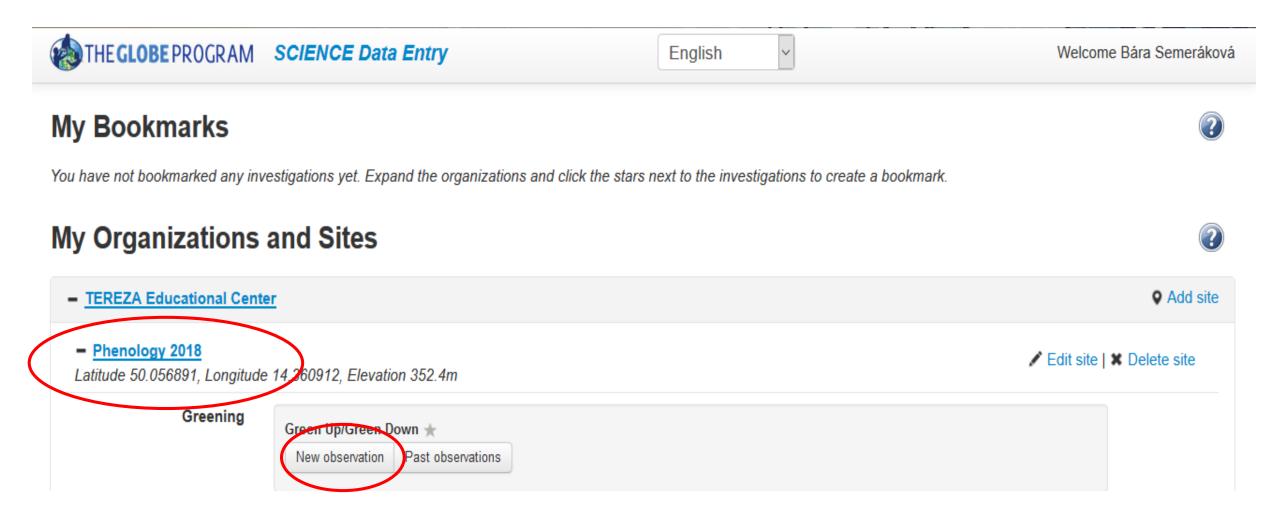
Site Name \*

Coordinates

Phenology 2018

#### How to Enter Data

- Once you are back in data entry, click on your phenology (Greening) site. Click on + if you can't see it.
- Two options will pop up: New observation or Past Observations. Click on New Observation.



Select a date (format is year – month – day)

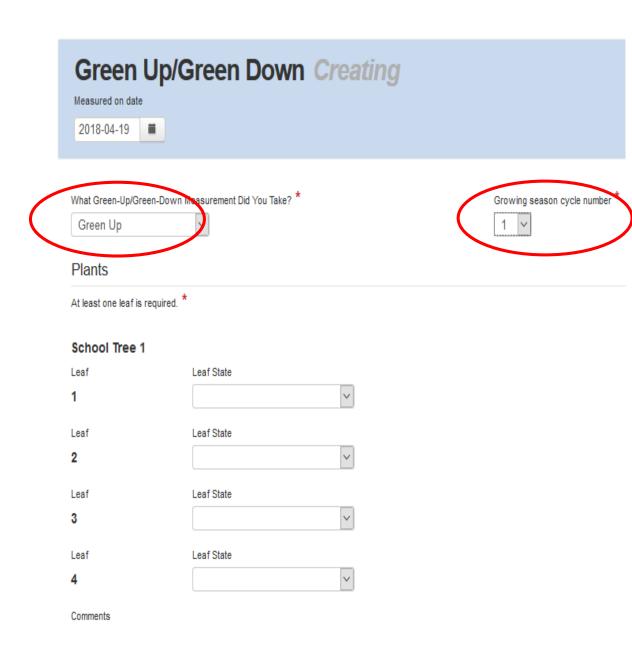


#### Next, the form will expand:

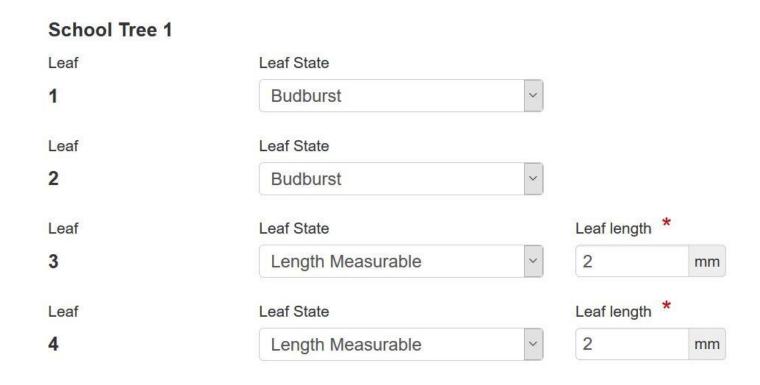
- First select Green Up
- Growing Season Cycle this depends on how many vegetation cycles are in your country. For most European countries we have only one cycle, so you select 1.

You will see all your trees listed down. For each tree you have 4 leaves.

If you do not observe all the trees listed right now, it is ok. Just fill in the data for the trees that you observe this spring.

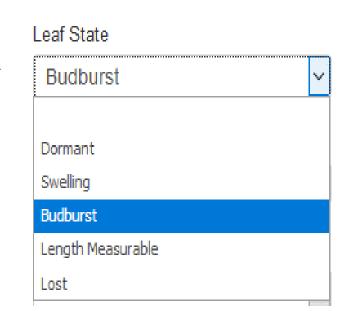


- Select Leaf State from drop down menu for each bud/leaf
- When you select Length Measurable, a field will pop up to record the length of the leaf in mm

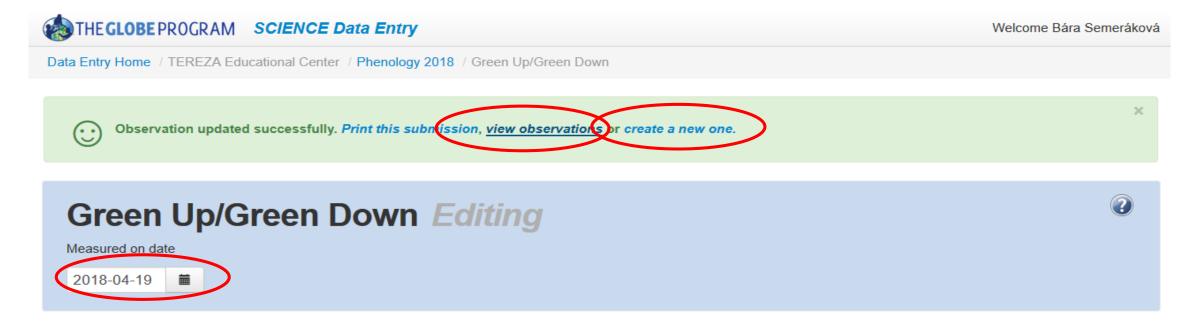


Repeat for each leaf

Confirm by click on the blue button Send Data



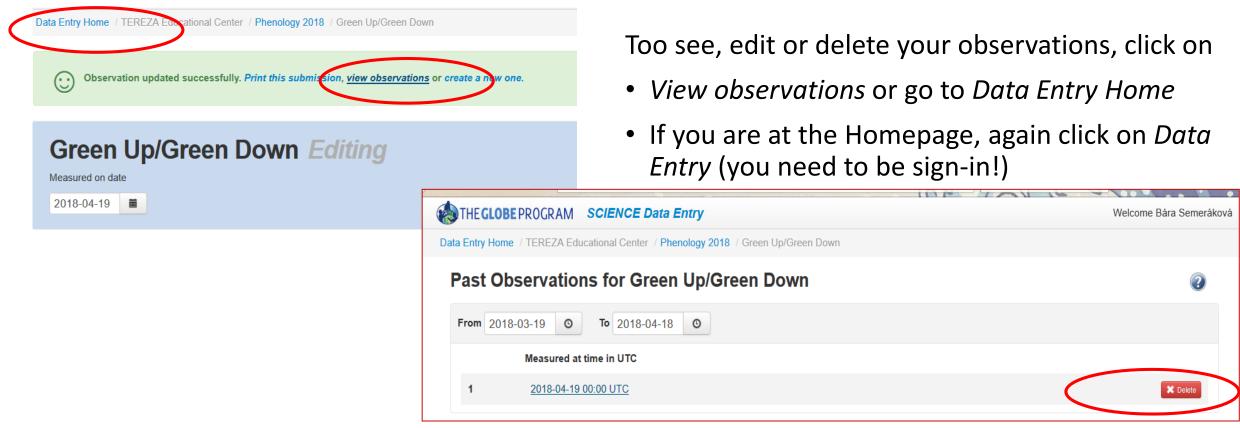
# Congratulations!



Data were sent successfully, you can continue

- to send data for another date
- to view your observation and edit if you want to change what you entered earlier
- to delete your past observations

# Look at your past observations



In Data Entry Home, click on the Site and then select "Past Observations"

- You will see a list of dates for which you entered data
- If you click on any, you can correct it
- To delete any, click on red button "Delete" on the right from the date

# GLOBE Videoguides will help you!

If you need more help on data entry in general, please watch the video guides here:

- <a href="https://www.globe.gov/get-trained/using-the-globe-website/creating-student-accounts">https://www.globe.gov/get-trained/using-the-globe-website/creating-student-accounts</a>
- https://www.globe.gov/get-trained/using-the-globe-website/entering-measurement-data
- <a href="https://www.globe.gov/get-trained/using-the-globe-website/setting-up-your-data-site">https://www.globe.gov/get-trained/using-the-globe-website/setting-up-your-data-site</a>



# I don't have permission to enter data

A. If you know that you have been trained, please ask your Country Coordinator to check your account on globe.gov. It must be marked there that you have been "trained"!

B. But mostly you cannot enter data, because you have never been officially trained in Green Up/Green Down activities! What to do?

- 1. You can attend a training (ask your coordinator)
- 2. You can do online **e-training** on globe.gov here:

https://www.globe.gov/get-trained/protocol-etraining (The Green Up/Down e-training you can find under Biosphere).

You need to be signed-in to globe.gov. Simply download the module (ppt), learn through it and then go back to the website and do the **Assessment test** for the module.

If you never been trained in any GLOBE activities (protocols), you need to start with the module **Introduction to GLOBE**.



# Thank you!

https://www.globe.gov/web/european-phenology-campaign

My Tree in Spring (Phenology) Campaign Coordinator: <a href="lenka.kleger@terezanet.cz"><u>lenka.kleger@terezanet.cz</u></a>

Contact to the presenter: <u>bara.semerakova@terezanet.cz</u>









