

EUROPEAN PHENOLOGY CAMPAIGN WEBINAR

Welcome to the Spring Campaign

Learn all you need to know about the 2024 Spring Tree Campaign plans. Discover green-up and carbon activities and tree height measurements.

28 February 2024





2024 Spring Tree/Phenology Campaign

February → June

Campaign aims

- Exploring trees and their change over spring
- Learning about the place, where they grow
- Meaningful time outdoors
- Sharing and cooperation





2024 Spring Phenology Campaign

Activities

- Green-up (4)
- Carbon cycle (4)
- Tree height (1)
- Trees and urban heat island (1)

Communication

Newsletter, Discussion forum, Webinars

Award for active participation

- Certificate
- Badges for cooperation and data entry

All activities are voluntary.
Let us know, how it goes!







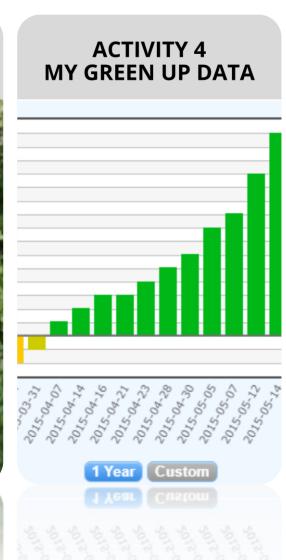


Green-up activities









Activity 1 – My Tree

- Find a suitable tree
 - Close
 - Low south-facing branch
 - Not shaded, watered, fertilized
- Describe the tree and the site where it grows
- Take pictures with GrowApp
- Share pictures of your tree without leaves at the discussion forum



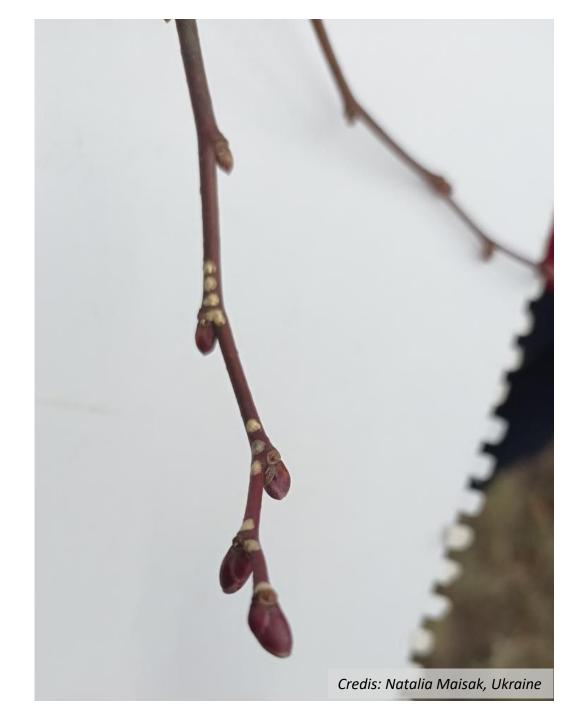
Activity 2 – Look at the Buds

- Select and sign a branch and 4 buds
- Observe them 2 times a week
- Record the observations into the Tree and Shrub Green-Up Data Sheet
- If you have an Atmosphere site nearby, keep recording temperature and precipitation data
- Share date of budburst



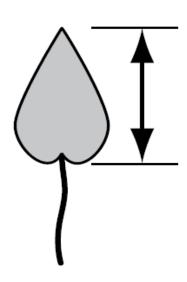
		Tree and Shrub Green-Up					
Leaf 1 (dormant, swelling, budburst, leaf length (mm))	Leaf 2 (dormant, swelling, budburst, leaf length (mm))	Leaf 3 (dormant, swelling, budburst, leaf length (mm))	Leaf 4 (dormant, swelling, budburst, leaf length (mm))	Data entry			
	(dormant, swelling, budburst, leaf	(dormant, swelling, budburst, leaf budburst, leaf	(dormant, swelling, swelling, budburst, leaf budburst, leaf budburst, leaf	(dormant, swelling, swelling, swelling, budburst, leaf budburst, leaf budburst, leaf budburst, leaf			

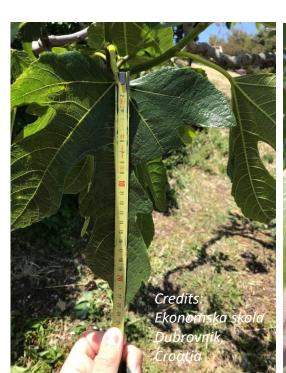




Activity 3 – First Leaves

- Budburst (= you can see the tip of green leaf) record to your data sheet
- Measure the length of a leaf that grows from the bud
- Measure the leaf without the stem
- Continue twice a week until your leaves stops growing









Activity 4 – My Green Up Data

- Upload your green up data to globe.gov website
 - Login to your GLOBE account
 - Data collected at Activities 1, 2 and 3.
- Try GLOBE Visualization tool
 - See the data on world map
 - Draw and share a graph with your data
- Compare your data
 - with another school
 - to your data from previous years



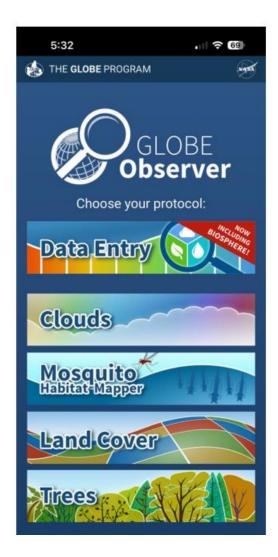


Entering Green Up Data

 Now also on GLOBE Observer Data entry App

observer.globe.gov

Data guide included in the Activity 4





Select Protocols

► Atmosphere	0			
▼ Biosphere	0			
Biometry: Graminoid Biomasses				
Biometry: Trees				
Biometry: Vegetative Covers				
Carbon Cycle				
Greening: Green Down				
Greening: Green Up				
Phenological Gardens: Autumn				
Phenological Gardens: Spring				
► Hydrosphere	0			
► Pedosphere				
► Earth as a System Bundles				
► My Protocol Bundles				



GrowApp

- Easy and free mobile application
 for Android / for iPhone
- Time lapse videos
- Pictures and videos in the map

Use # to describe tree species and your school





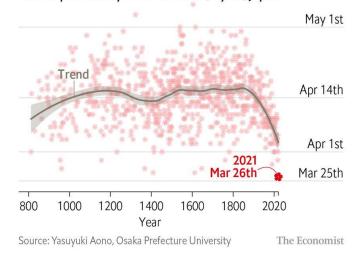
https://www.globe.gov/web/european-phenology-campaign/overview/growapp

What is phenology? Why trees?



Japan's cherry blossoms are emerging increasingly early

Date of peak cherry-blossom bloom, Kyoto, Japan





Activity: How tall is my tree?

Get to know your tree better - measure its height using

- a hand-made clinometer easy to do using attached worksheet
- ➤ GLOBE Observer App: https://observer.globe.gov/





Activity: Air Conditioned by Trees

Explore, how your tree affects the microclimate in its surroundings and how trees help us to cool the urban environment.









Collaboration group

- International groups of 2-4 schools
 - Exchange of data and pictures by e-mail
 - Communication via ZOOM / Skype...
 - Student research projects
 - Practicing language skills

Let us know, how your cooperation is going!



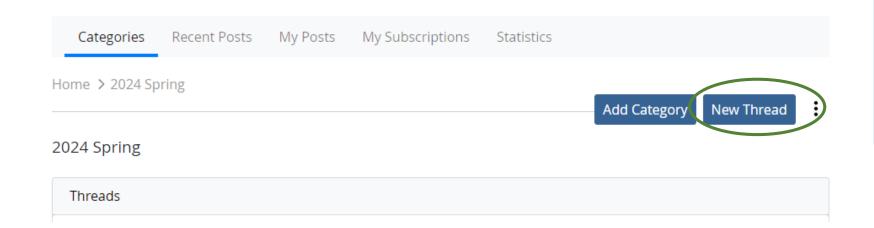


Discussion Forum

Share your pictures and results

How to do it?

- Sign in to GLOBE account
- European Phenology Campaign > News and discussion
- Choose "2024 Spring"
- Publish your post
- Add pictures



European Phenology Campaign

Webinars

Download Materials

Get Inspired

News and Discussion

Community

Our Measurements

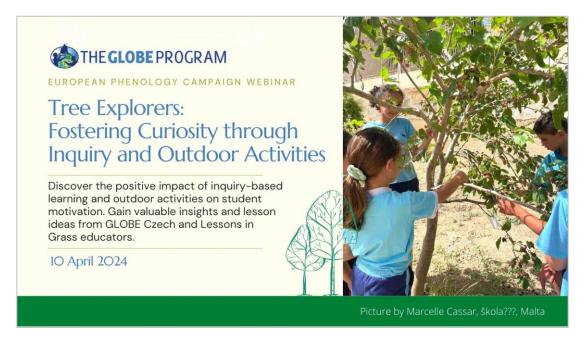
GrowApp

Contacts

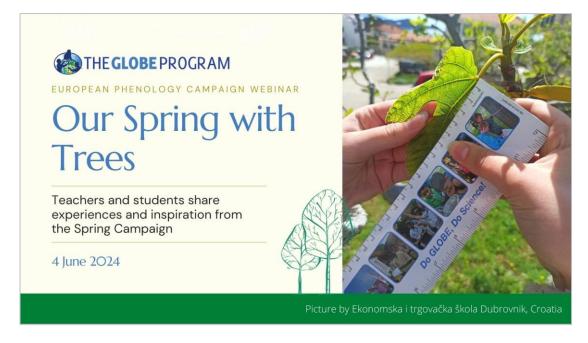


Webinars

10 April 2024



4 June 2024



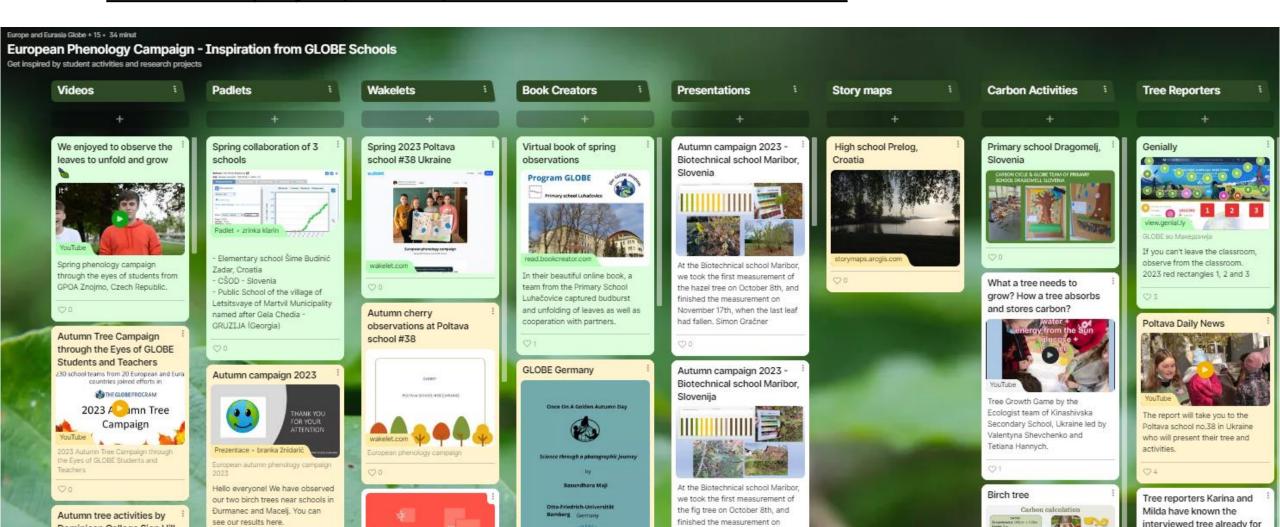
Also invitations to other tree-related webinars

https://www.globe.gov/web/trees-around-the-globe/overview/webinars



Padlet - inspiration from schools

See school project, videos, collaboration and a lot more...





Thank you!

Lenka Kleger, lenka.kleger@terezanet.cz

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





