



**THE GLOBE PROGRAM**

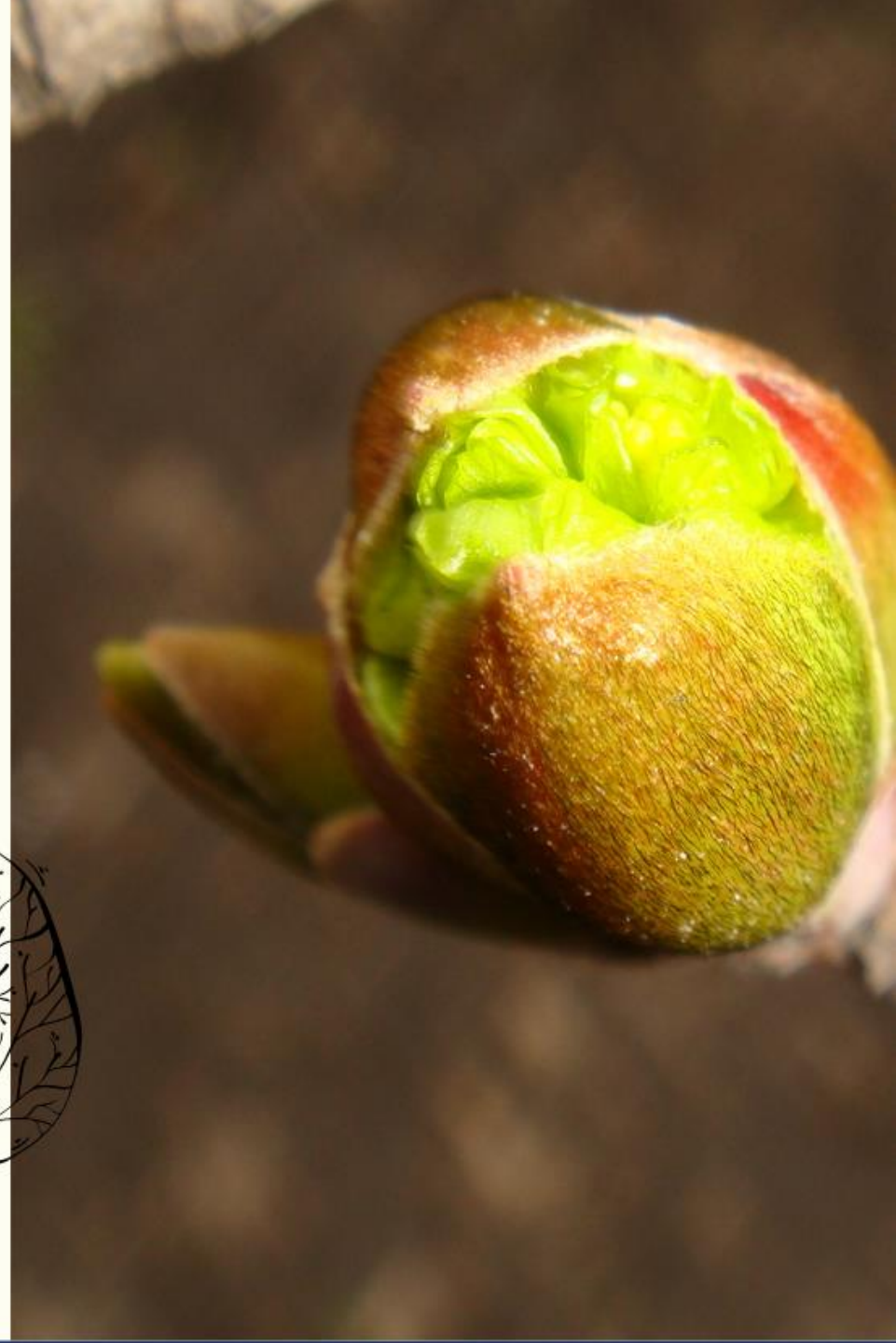
EUROPEAN PHENOLOGY CAMPAIGN WEBINAR

# Welcome to the Spring Campaign

Learn all you need to know about the 2023 Spring Tree Campaign plans. Discover green-up and carbon activities and tree height measurements.

**15 February 2023**

Lenka Kleger, Europe and Eurasia Region Coordination Office



# 2023 Spring Tree/Phenology Campaign

**February → June**

Registration by February 20

## Campaign aims

- Exploring trees and their change over spring
- Learning about the place, where they grow
- Meaningful time outdoors
- Sharing and cooperation
- Data as a source of information for schools projects and scientists





# 2023 Spring Phenology Campaign

## Activities

- **Green-up (5)**
- Carbon Cycle (4)
- Tree height (1)
- Trees and urban heat island (1)

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

## Communication

- Newsletter
- Discussion forum
- Webinars

## Award for active participation

- Certificate
- Badges for cooperation and data entry



# Green-up activities

## ACTIVITY 1 MY TREE



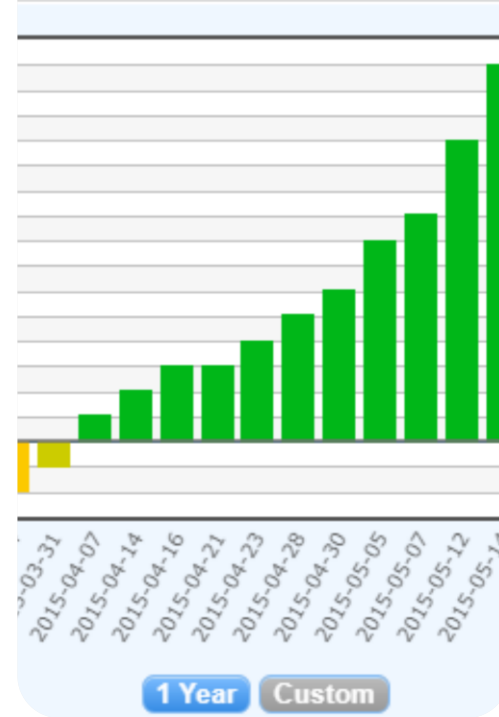
## ACTIVITY 2 LOOK AT THE BUDS



## ACTIVITY 3 FIRST LEAVES



## ACTIVITY 4 MY GREEN UP DATA



## ACTIVITY 5 GREEN SCALE





# Activity 1 – My Tree

- Find a suitable tree
  - Close
  - Low 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



Sour cherry



Small-leaved lime



Hazel



Penduculate oak



Silver birch



Beech



Fig

# Activity 2 – Look at the Buds

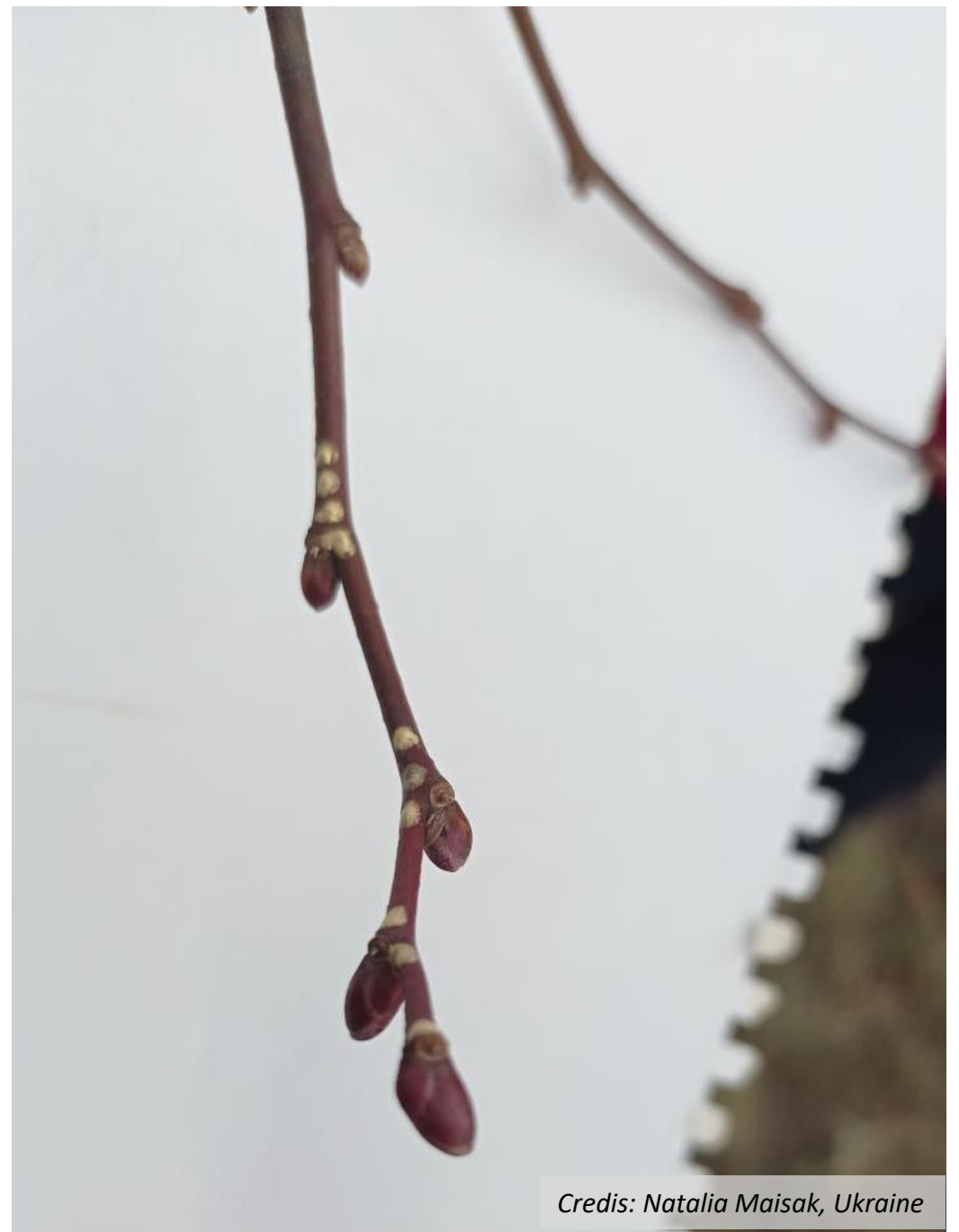
- Select and sign a branch and 4 buds
- Observe them 2 times a week
- Record the observations into the Tree and Shrub Green-Up Data Sheet
- If you have an Atmosphere site nearby, keep recording temperature and precipitation data
- Share date of budburst



Tree and Shrub Green-Up					
Date (day & month)	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 ✓



*Credis: Poltava School, Ukraine*

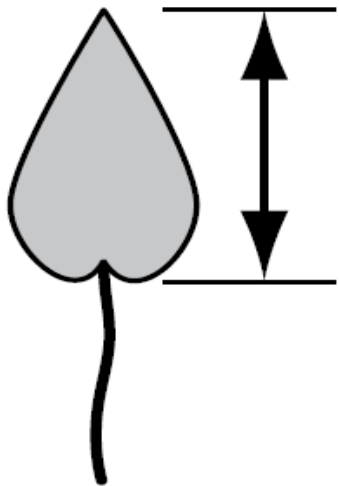


*Credis: Natalia Maisak, Ukraine*



# 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

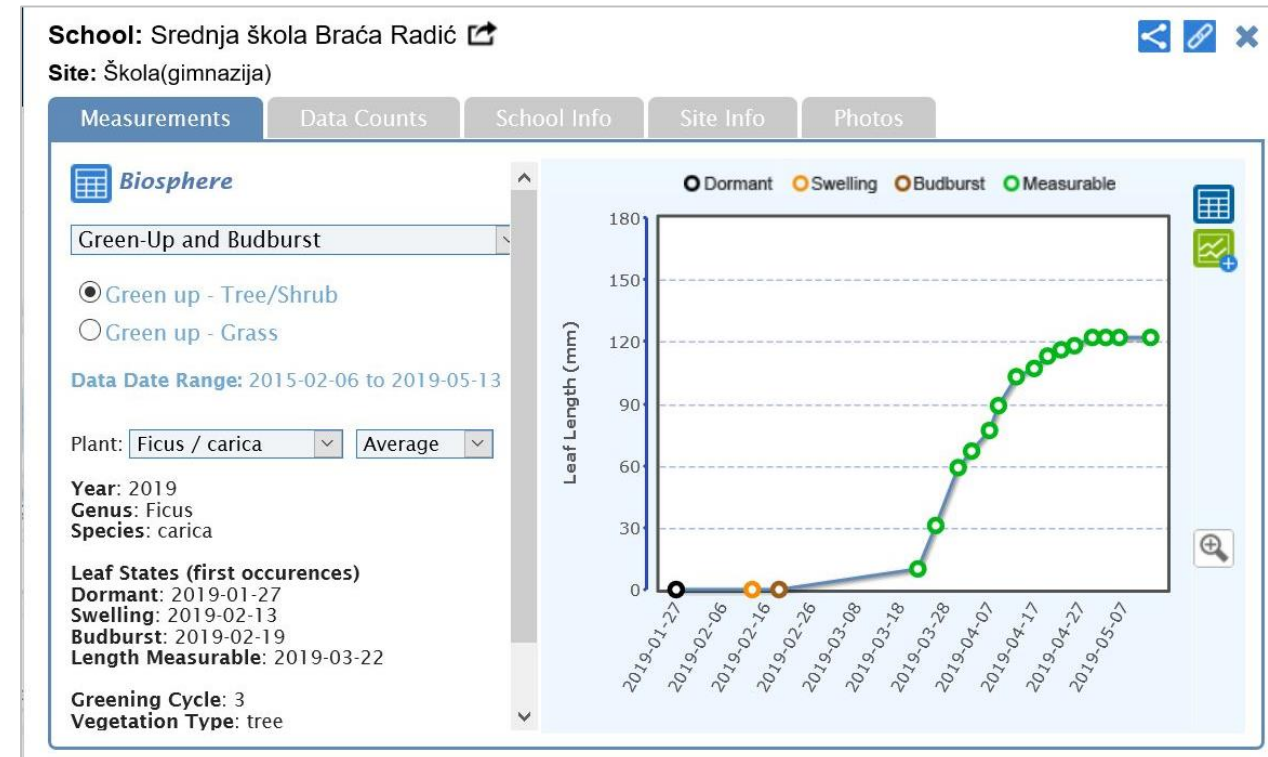




# Activity 4 – My Green Up Data

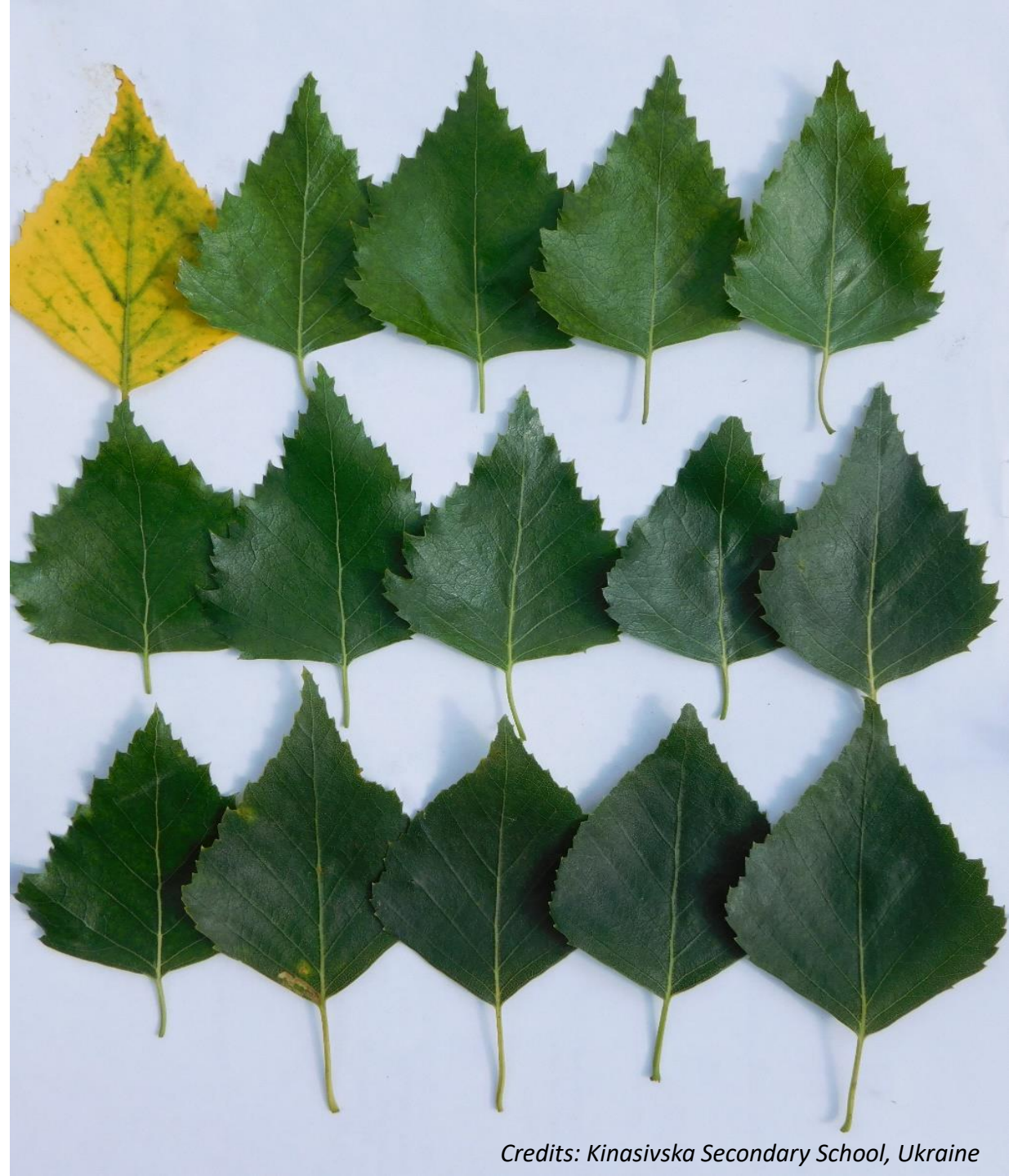
- Upload your green up data to globe.gov website
  - Login to your **GLOBE account**
  - Data collected at Activities 1, 2 and 3.
- Try GLOBE Visualization tool
  - - See the data on world map
  - - Draw and share a graph with your data
- Compare your data
  - with another school
  - to your data from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

Data guide and webinars at the website.



# Activity 5 – Green Color Scale

- Enjoy time outdoors
- Collect a variety of green leaves
- Create a scale, palette ...



*Credits: Kinasivska Secondary School, Ukraine*



# GrowApp

- Easy to use mobile application  
[for Android](#) / [for iPhone](#)
- Time lapse videos
- Use # to describe tree species and your school



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

# 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/>





# Discussion Forum

Share your pictures and results

How to do it?


- Sign in to GLOBE account
- European Phenology Campaign > News and discussion
- Choose „2023 Spring“
- Publish your post
- Add pictures

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Categories

 2023 Spring  
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1 Thread

⋮

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2022 Autumn

# 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!



*Credits: Lutsk City Ecology and Nature Center, Ukraine*



# Webinars

30 March at 3pm CET



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## Experience and Love Trees

Encourage children's sensitivity to trees and let your students develop a close relationship with them. Lessons in Grass Project team will inspire you with lesson plans, tips and tricks.

30 March 2023



31 May at 2pm CET



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## Our Spring with Trees

Teachers and students share experiences and inspiration from the Spring Campaign

31 May 2023



Picture by Vilnius Fabijoniškes gymnasium, Lithuania

## Trees Around the GLOBE Student Research Campaign – invitations to webinars

- Campaign website: <https://www.globe.gov/web/trees-around-the-globe/overview/webinars>



# Thank you!

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[www.globe.gov/web/european-phenology-campaign](http://www.globe.gov/web/european-phenology-campaign)

