



THE GLOBE PROGRAM

European Phenology Campaign – My Tree 2023

Biotehniška šola Maribor



Co-funded by
the European Union



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Green up (spremljanje razvoja brstov in listov)

- **Nabor drevesnih vrst:** lipa, divja češnja, leska, hrast dob, breza, bukev, figa.
- **Naš izbor:** leska in figa.



THE GLOBE PROGRAM

- **Določimo lokacijo rastline** (ob šoli, doma).
- **Opišemo izbrano drevo** (kako raste, približna višina, razraščenost, ali zraven stoji drugo drevo ali kakšen objekt ...).

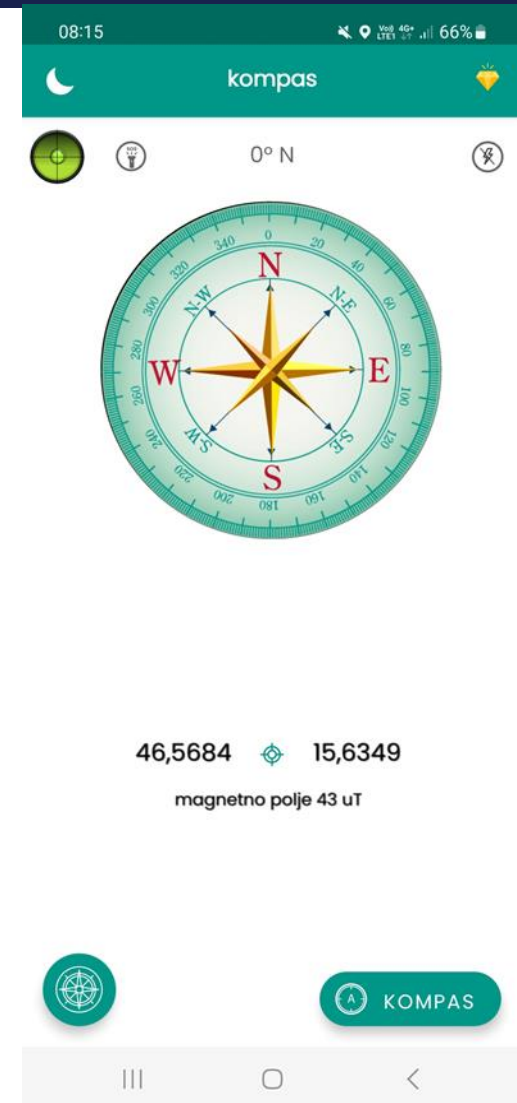
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- **S kompasom določimo smer**
(poganjki naj gledajo proti jugu).





THE GLOBE PROGRAM

- **Izberemo poganjek** in označimo 4 brste od konice navzdol (označimo s pentljo ali s sprejem).





THE GLOBE PROGRAM



- **Vnašanje v aplikacijo GLOBE – DATA Entry** (mobilna ali računalnik).

Add site type

Atmosphere

- Atmosphere
- Surface Temperature

Hydrosphere

- Hydrology

Biosphere

- Land Cover
- Greening
- Phenological Gardens
- Carbon Cycle

Pedosphere

- Frost Tube
- Soil Characterization
- Soil Moisture and Temperature

Photos →

Site Name * * indicates a field is required

Skoke - village

Site ID 316956

Coordinates

Latitude *

46.4859 °

Longitude *

15.6954 °

Elevation *

261 m

North South

East West

[Set elevation](#)

Source of Coordinates Data *

GPS Other



Photos

Photo Date: 2023-05-12

[+ Change Date](#)

[✕ Delete Date](#)

[🔍 Edit](#)

[Show Instructions](#)

North



South



East



West



Upward



Downward



- Greening

[✎ Edit](#) [✕ Remove](#)

- There are multiple dominant species

Plants

- This plant is in the understory

[✕ Remove](#)

Vegetation Type *

Shrub

Genus *

Ficus

Species *

carlca

Label *

#fig

[Add plant](#)





2023-03-13



What Green-Up/Green-Down Measurement Did You Take? *

Green Up



Growing season cycle number *

1



Plants

At least one leaf is required. *

#hazel

Leaf

1

Leaf State

Swelling



Leaf

2

Dormant

Swelling

Leaf

3

Budburst

Length Measurable

Leaf

4

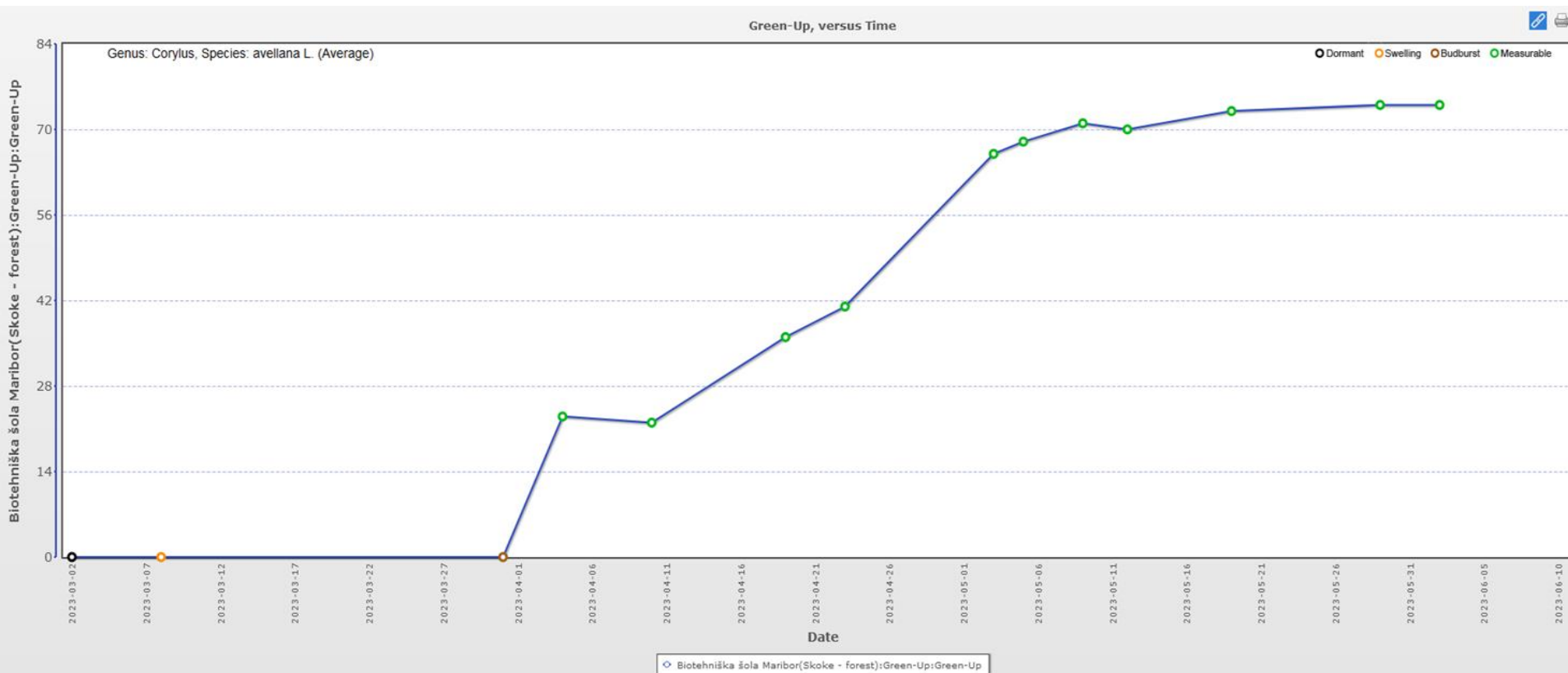
Swelling





THE GLOBE PROGRAM

- **Green up:** merimo od mirovanja naprej – ko brst nabrekne – ko se brst odpre – merimo dolžino listne ploskve (brez peclja) – listno ploskev merimo dokler ne raste več.





THE GLOBE PROGRAM

- Rezultate vpisujemo v podatkovni list.
- Izmerimo temperaturo in padavine.

Tree and Shrub Green-Up

Date (day and month)	Leaf 1 (Dormant, Swelling, Budburst, Length (mm), Lost)	Leaf 2 (Dormant, Swelling, Budburst, Length (mm), Lost)	Leaf 3 (Dormant, Swelling, Budburst, Length (mm), Lost)	Leaf 4 (Dormant, Swelling, Budburst, Length (mm), Lost)	Reported to GLOBE Database <input checked="" type="checkbox"/>
3 March	dormant	dormant	dormant	dormant	<input checked="" type="checkbox"/>
6 March	dormant	dormant	dormant	dormant	<input checked="" type="checkbox"/>
11 March	swelling	swelling	swelling	dormant	<input checked="" type="checkbox"/>
14 March	budburst	budburst	swelling	swelling	<input checked="" type="checkbox"/>
18 March	2	4	budburst	budburst	<input checked="" type="checkbox"/>
22 March	6	10	5	6	<input checked="" type="checkbox"/>
25 March	12	15	10	12	<input type="checkbox"/>
29 March	20	22	18	19	<input type="checkbox"/>
2 April	30	32	25	28	<input type="checkbox"/>
5 April	38	lost	36	38	<input type="checkbox"/>
8 April	45		42	44	<input type="checkbox"/>
11 April	45		44	44	<input type="checkbox"/>
14 April	45		44	44	<input type="checkbox"/>
					<input type="checkbox"/>



THE GLOBE PROGRAM

- **Vedno iz istega mesta** fotografiramo z aplikacijo GROWAPP (ko merimo, vedno fotografiramo).

<https://www.growapp.today/#/?activePhoto=110101&activePhotoSet=110101&fullScreen=true>

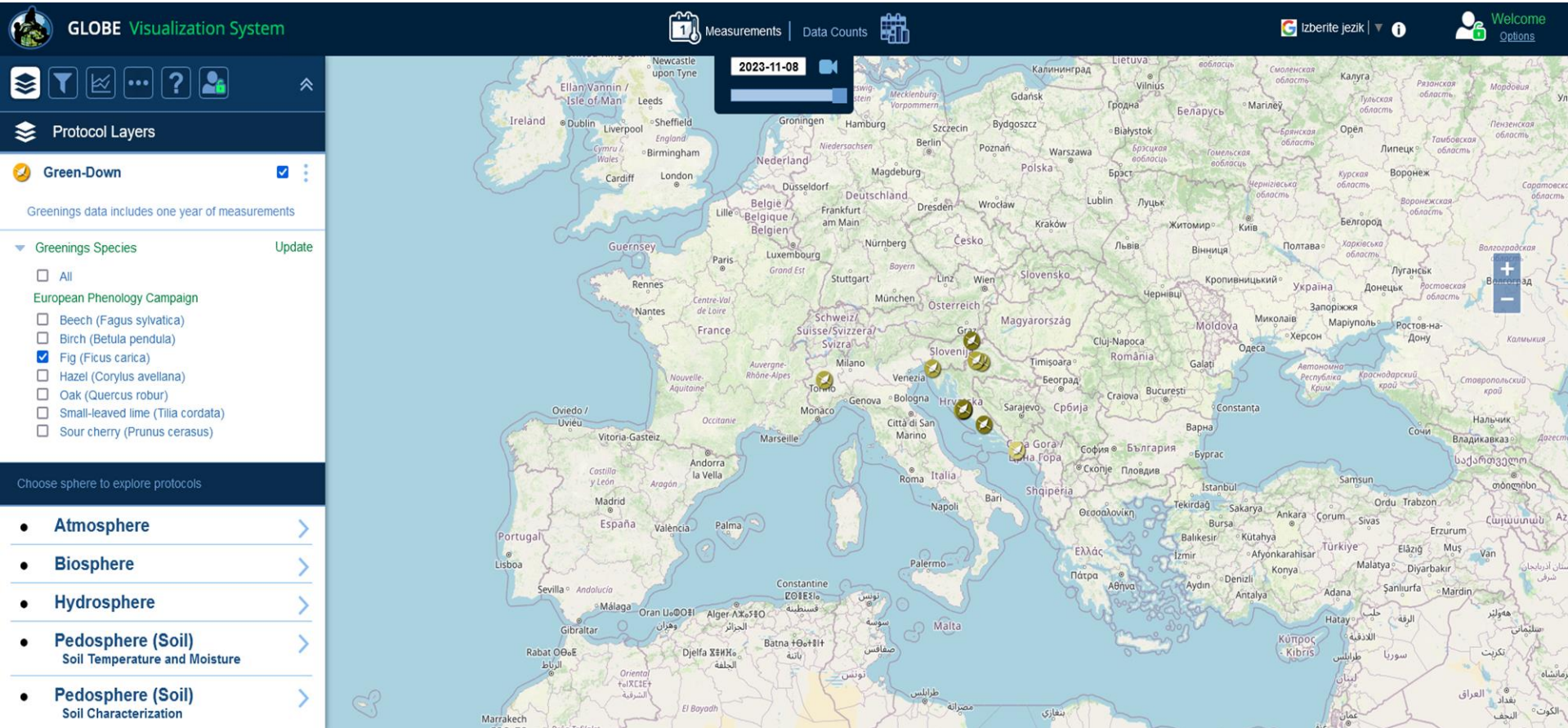
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➤ GLOBE Vizualizacija



GLOBE Visualization System

Measurements | Data Counts

Izberite jezik | Welcome Options

2023-11-08

Protocol Layers

- Green-Down**
 - Greenings data includes one year of measurements
- Greenings Species** Update
 - All
 - European Phenology Campaign
 - Beech (*Fagus sylvatica*)
 - Birch (*Betula pendula*)
 - Fig (*Ficus carica*)
 - Hazel (*Corylus avellana*)
 - Oak (*Quercus robur*)
 - Small-leaved lime (*Tilia cordata*)
 - Sour cherry (*Prunus cerasus*)

Choose sphere to explore protocols

- Atmosphere** ➤
- Biosphere** ➤
- Hydrosphere** ➤
- Pedosphere (Soil)** ➤
 - Soil Temperature and Moisture
- Pedosphere (Soil)** ➤
 - Soil Characterization

The GLOBE Program



Global Learning and Observations to Benefit the Environment

Certificate of Appreciation

Biotehniška šola Maribor

Active participation in the 2023 Spring Phenology Campaign

A handwritten signature in black ink, appearing to read 'Tony P. Murphy'.

Dr. Tony P. Murphy, Director
GLOBE Implementation Office

A handwritten signature in black ink, appearing to read 'Lenka Kleger'.

Lenka Kleger
GLOBE Europe and Eurasia Region
Coordination Office

June 20, 2023

Date

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UCAR