



International collaboration Ukraine – Croatia

Imporant green downdate for
both schools



THE
GLOBE PROGRAM 

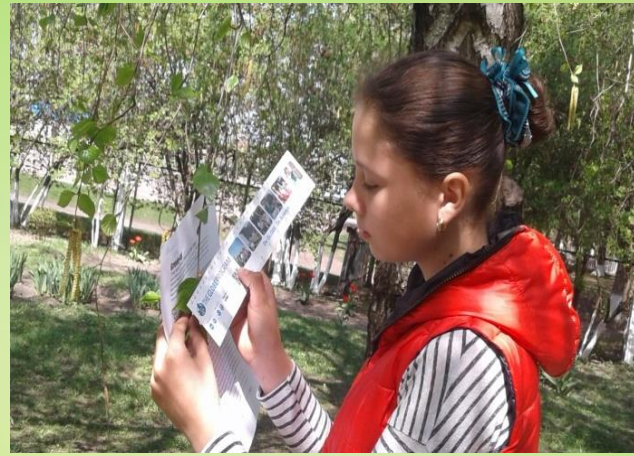


International Collaboration between Zhoravska secondary school (Ukraine) and OS Đurmanec (Croatia)





Students from Zhoravska secondary school, Ukraine, cooperate with students from OS Đurmanec, Croatia. Both schools were involved in the 2018 and 2019 Phenology Campaigning and in observation of a birch tree.





Students from Oš Đurmanec



About the School

Oš Đurmanec
About & Contacts
Image Gallery

2019 GLOBE Phenology Campaign - Spring





Autumn 2018.

On each picture – Left Zhoravska secondary school, Right – OS Đurmanec.





The results of 2018 autumn measurements are shown below

	Birch in Ukraine	Birch in Croatia
Beginning of autumn color change of leaves	08.10	18.09
Beginning of autumn fall of leaves	05.10	28.09
Full autumn color of the leaves	17.10	5.10
The end of falling of leaves	05.11	26.10

The GLOBE Program



Global Learning and Observations to Benefit the Environment

Certificate of
Outstanding Achievement
Zhoravsky secondary school

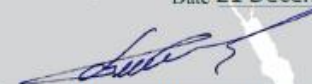
GLOBE Science Honor Roll

III (gold) level

Date 21 December 2018



Dr. Tony P. Murphy, Director
GLOBE Implementation Office



Dr. Volodymyr Verbytskyi, Director
National Ecology and Nature Center,
Ukraine

Sponsored by:   Supported by:   Implemented by:  UCAR

The GLOBE Program



Global Learning and Observations to Benefit the Environment

Certificate of Appreciation

Nataliia Boiko

In recognition of your outstanding contribution to
*for the successful investigations during
Autumn Phenology Campaign*
and to the growth and development of the GLOBE Program worldwide.

Date 21 December 2018



Dr. Tony P. Murphy, Director
GLOBE Implementation Office



Dr. Vokhdymyr Verbytskyi, Director
National Ecology and Nature Center,
Ukraine

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Spring 2019

On each picture – Left Zhoravska secondary school, Right – OS Đurmanec.





Charts from GLOBE visualisation system

School: Zhoravsky secondary school

Site: Phenologia #2



Next Site

◀ 1/2 ▶

Measurements

Data Counts

School Info

Site Info

Photos

Biosphere

Green-Up and Budburst ▾

- Tree/Shrub Date of Budburst
- Grass Date of First Measurable Leaf

Data Date Range: 2019-03-12 to 2019-05-29

Year: 2019

Date Of Budburst: 2019-04-01

Greening Cycle Number: 1

Vegetation Type: tree

Genus: *Betula*

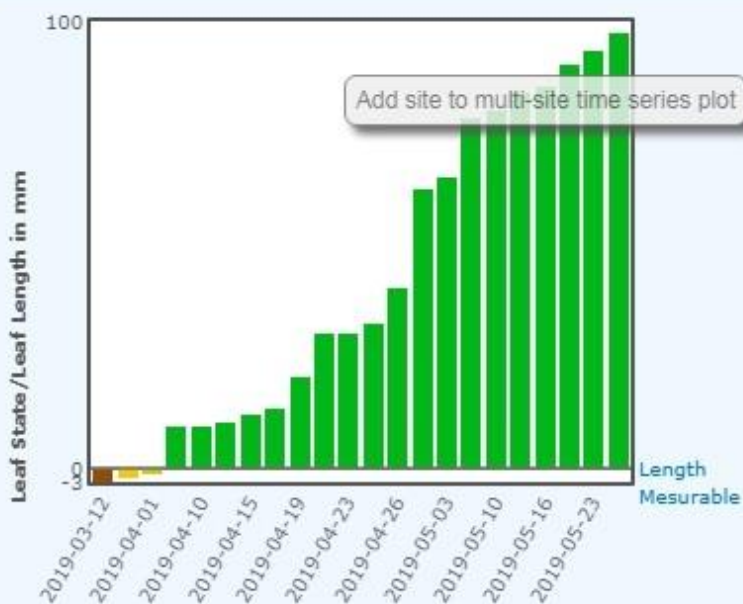
Species: *pendula*

Stage: up

Leaf State: budburst

Number Of Same Plants: 1

Elevation: 149.00 m



Length
Mesurable

1 Year

Custom



Charts from GLOBE visualisation system

School: OŠ Đurmanec

Site: Breza

Measurements

Data Counts

School Info

Site Info

Photos

Biosphere

Green-Up and Budburst

- Tree/Shrub Date of Budburst
- Grass Date of First Measurable Leaf

Data Date Range: 2018-02-20 to 2019-05-13

Year: 2019

Date Of Budburst: 2019-03-29

Greening Cycle Number: 3

Vegetation Type: tree

Genus: **Betula**

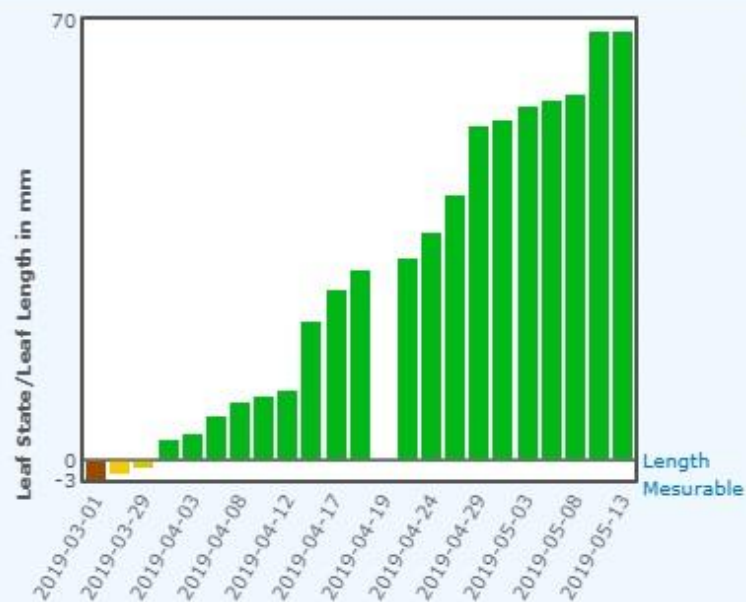
Species: **pendula**

Stage: **up**

Leaf State: **budburst**

Number Of Same Plants: 1

Elevation: 196.90 m



1 Year

Custom

Autumn 2019.

On each picture – Left Zhoravska secondary school, Right – OS Đurmanec.



Spring 2020. Three years together.
On each picture – Left Zhoravska secondary
school, Right – OS Đurmanec





The results of 17 april 2020 measurements are shown below

	Zhoravska secondary school	OS Đurmanec
Leaf 1	25 mm	46 mm
Leaf 2	24 mm	45 mm
Leaf 3	24 mm	42 mm
Leaf 4	25 mm	36 mm



The image features a decorative border with green leaves and grass. The top border consists of brown branches with vibrant green leaves, some of which are slightly blurred. The bottom border is a dense field of green grass. The sides of the border are composed of a vertical line of small, light green, rounded rectangular shapes. The background is a light green gradient.

Thank You

Nataliia Boiko,
GLOBE teacher from Ukraine