







Belišće-a city on the Drava

- On the right bank of the Drava River
- Part of the Pridrav lowland
- Drava the border with Baranja
- Hydrological GLOBE station







GOAL OF THE WORK

- Land cover research
- Wetland forest
- "walking forests"
- white willow forest
- black and white poplar forest
- endangerment of these areas













The importance of wetlands, wetlands and floodplain forests

- They control floods.
- They retain and deposit sediments.
- They neutralize various toxins.
- Sponges that, depending on the amount of groundwater and surface water, release or retain water.
- ❖ Natural water purifiers, as they collect polluted water from surrounding areas for marsh plants, such as reeds, to process and purify (removing phosphates and nitrogen compounds, which are the basic components of artificial fertilizers in agriculture).
- They are centers of biodiversity for plants and animals and are often compared to tropical rainforests.
- They mitigate the effects of floods and droughts.
- They prevent coastal erosion.
- They are habitats for a large number of species of birds, mammals, reptiles, amphibians, fish, and invertebrates.
- They are increasingly being used for tourism, specifically ecotourism.

RESEARCH QUESTION AND HYPOTHESIS

RESEARCH QUESTION

 Are the GLOBE protocols for biometrics precise enough to determine the existence of characteristic wetland forests?

HYPOTHESIS

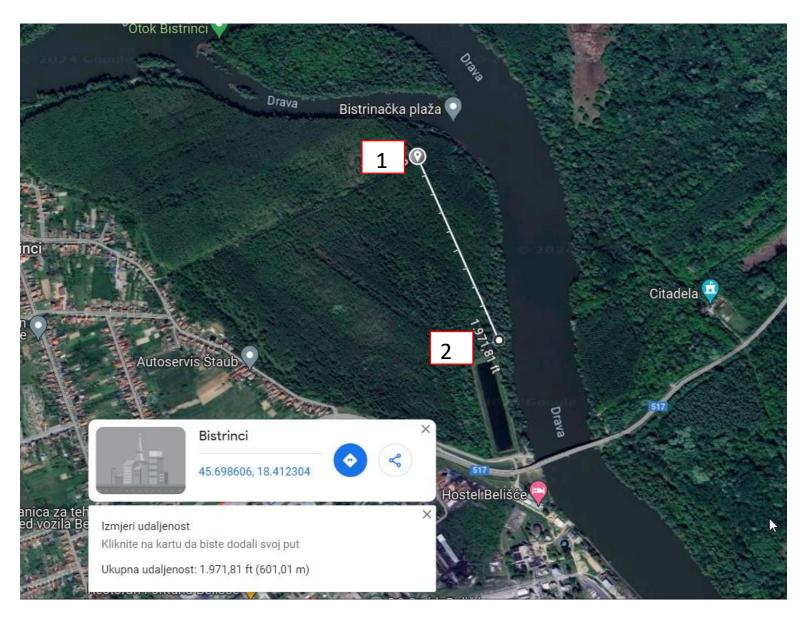
 By applying the GLOBE protocols for biometrics, it is possible to determine the existence of characteristic wetland forests.



Research Methods

- GLOBE protocol for biometrics
- Two research plots
- PlantNet application
- Key for species identification

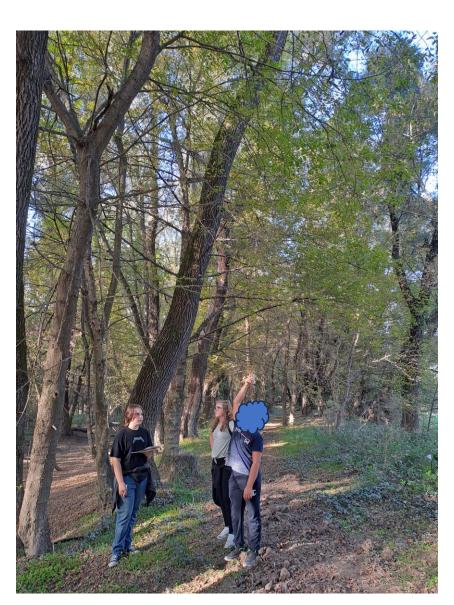
1-Bistrinci Beach 2 - Vrbik



Poplar Forest - Bistrinci Beach

White Willow Forest - Vrbik





We determined:

- MUC category
- Canopy and ground cover
- Dominant and co-dominant species
- Tree height and circumference
- Plant species

Presentation and Data Analysis

Data for Plot 1 - Bistrinci Beach



MUC KOD- 1231, Deciduous forest without evergreen trees

Dominantna vrsta drveća Populus × canadensis Moench.	Visina stabla (m)	Opseg stabla (cm)
1. stablo	41,5	100
2. stablo	40,3	95
3. stablo	39,5	91
4. stablo	38,7	87
5. stablo	33,9	87

Shrub Layer - Amorpha (false indigo), dogwood, and hawthorn Ground Cover - Grasses (GD) and broad-leaved herbaceous plants (FB)

Presentation and Data Analysis

Data for Plot 2 - Vrbik near the artificial lake



Shrub Layer - Blueberry bramble (Rubus), wild vine

Ground Cover - Broad-leaved herbaceous plants (FB) and dwarf shrubs (DS); the rest consists of grasses and other green vegetation

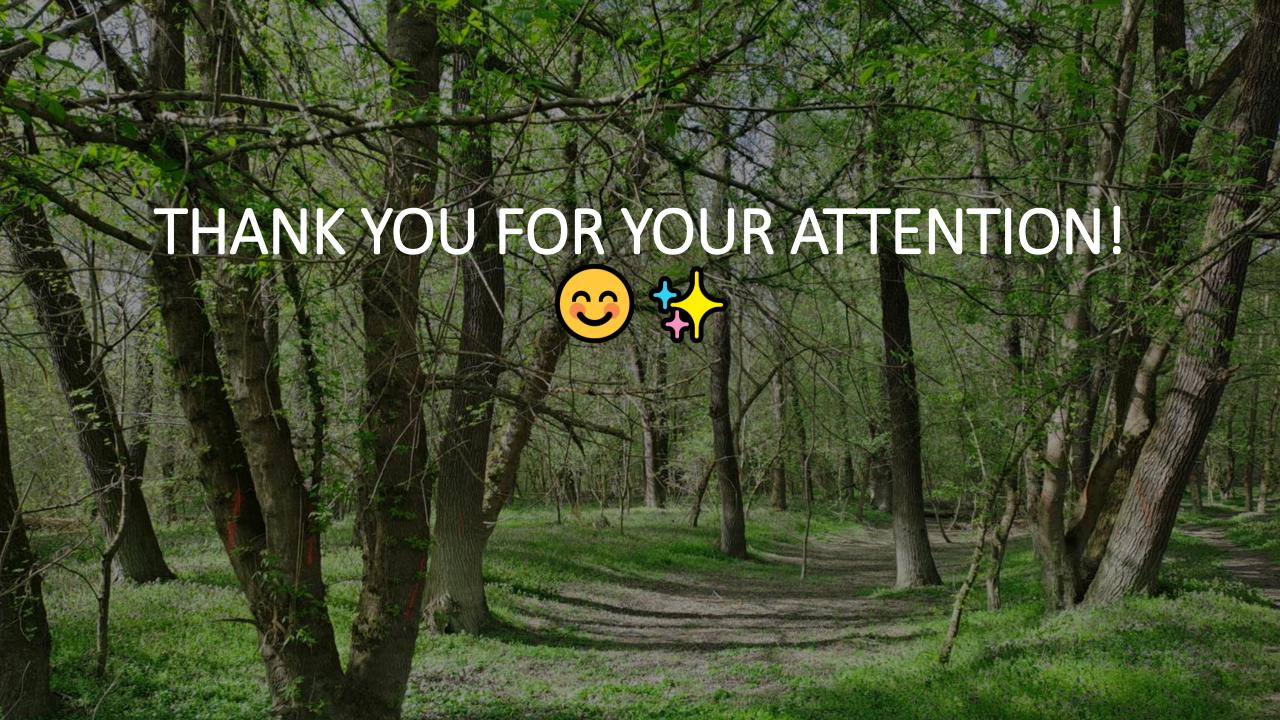
MUC KOD- 1231, Deciduous forest without evergreen trees

Dominantna vrsta drveća Salix alba L.	Visina stabla (m)	Opseg stabla (cm)
1. stablo	37,2	188
2. stablo	36,0	221
3. stablo	34,8	179
4. stablo	31,5	203
5. stablo	27,6	183
Kodominantna vrsta		
drveća	Visina stabla	Opseg stabla
Acer negundo L.	(m)	(cm)
1. stablo	28,5	180
2. stablo	25,8	104

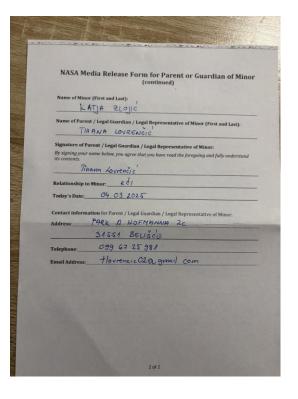
Conclusions and Discussion

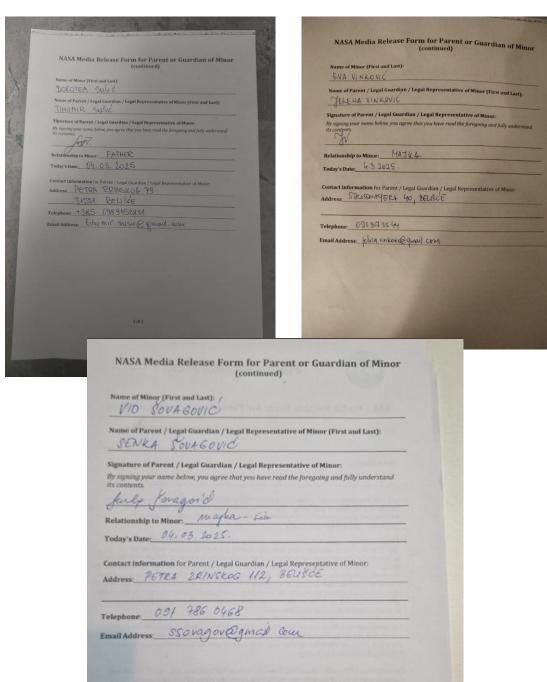
- We confirmed the hypothesis using the GLOBE protocols, we can accurately determine the existence of floodplain forests (canopy cover and identification of dominant tree species).
- We classified forest communities at a more detailed level compared to the MUC classification, which only recognizes deciduous forests without evergreen elements.
- We highlighted the importance of preserving these natural habitats – through a presentation to the local community and an educational brochure.





Media Release Form





NASA Media Release Form	for Parent or Guardian of Minor onlinued)
Name of Minor (First and Last): ANA PREBER	
Name of Parent / Legal Guardian / Legal	Representative of Minor (First and Last):
Signature of Parent / Legal Guardian / L	you have read the foregoing and fully understand
Relationship to Minor: MAJKA Today's Date: 04.03, 2025.	
Contact information for Parent / Legal Gu Address BISTRING JUNE 31551 BEUSCH	WITH GAJA 29
Totalone 001/ 702 - 4004	
Telephone	6
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