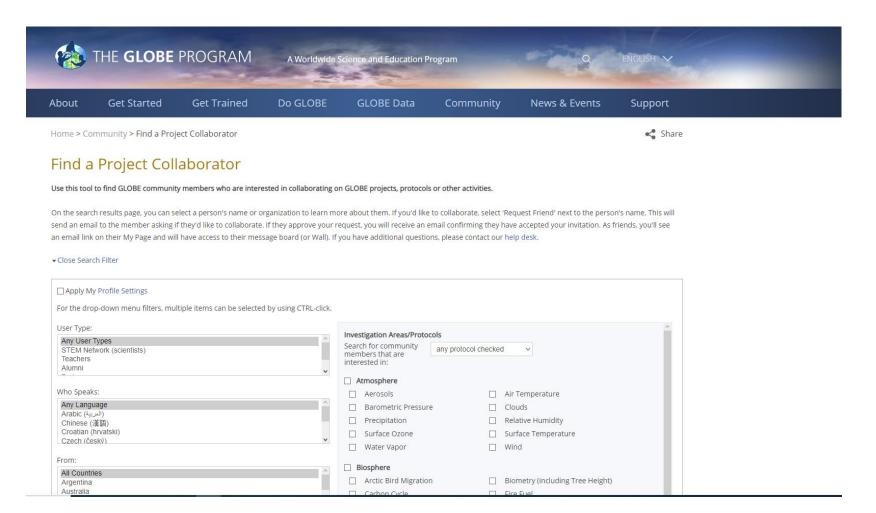
Time of buddburst and dynamics of leaf growth in *Tilia cordata* Mill. at Varaždin and Belišće

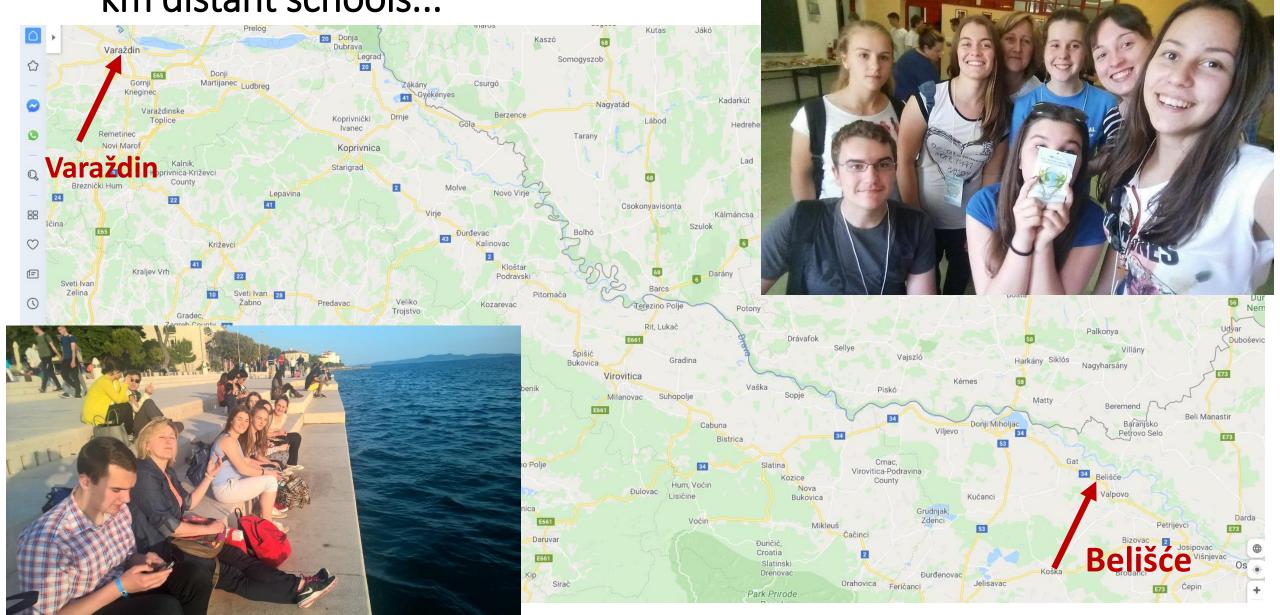
Marina Balažinec 3rd Primary school Varazdin Lidija Tivanovac Primary school Ivana Kukuljevića Belišće



All started with... Find a Project Collaborator tool

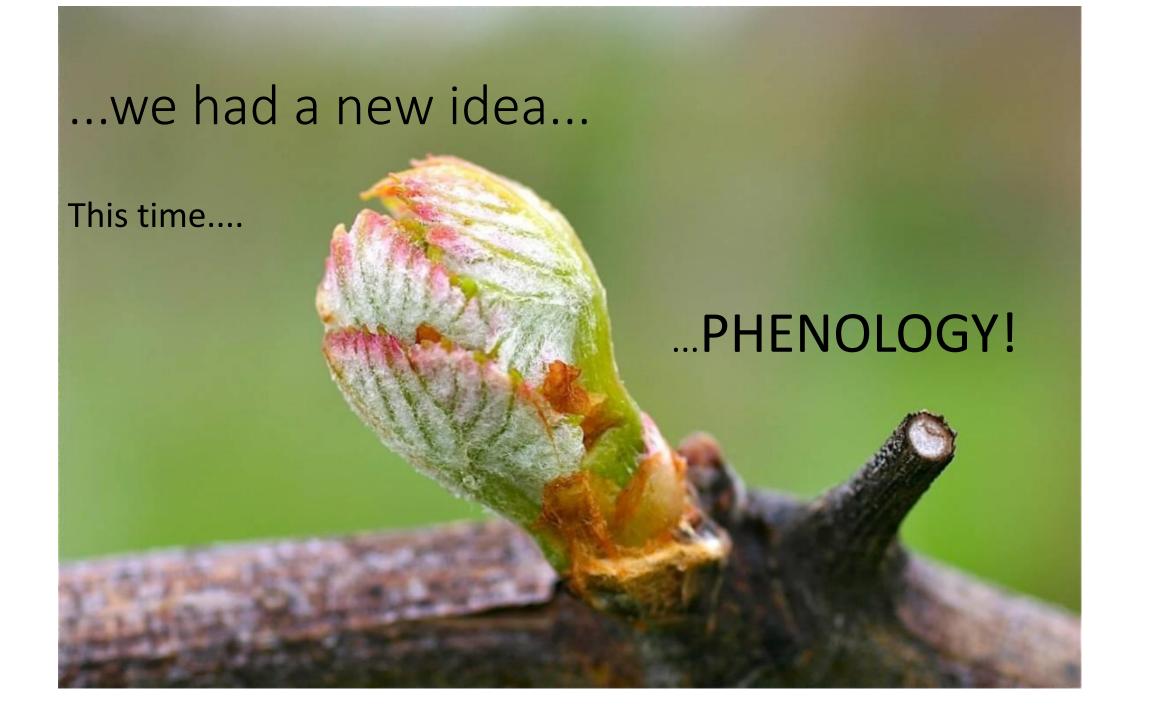


And after 5 years of collaboration and friendship between two 300 km distant schools...









Why phenology measurements?









Vizual Interesting,

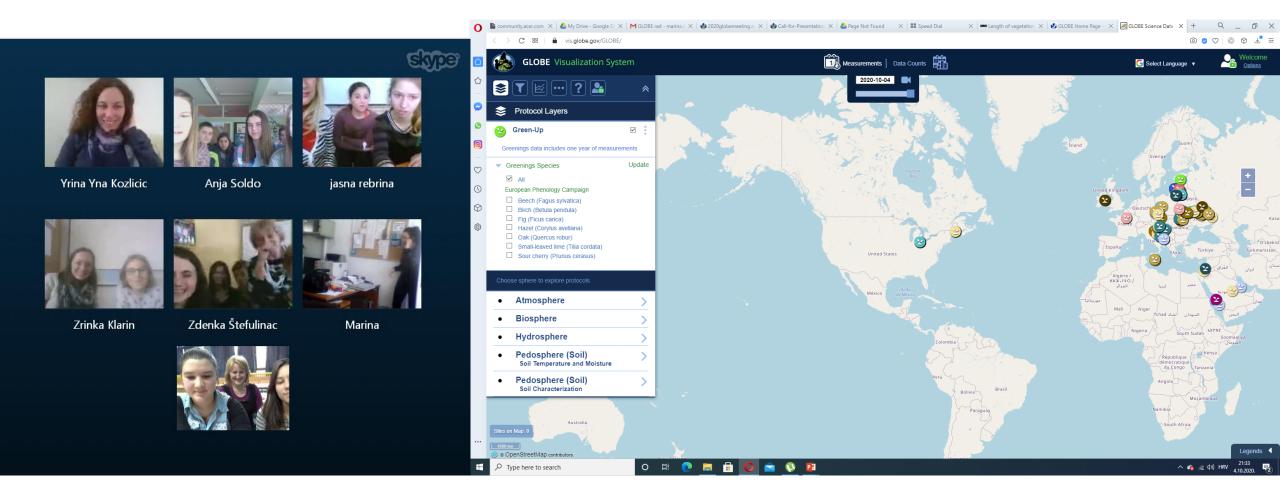
help detect climate change,

Get to do real science!

How we did it?

Lots of LOVE for GLOBE...

... AND....Visualization system!



After 5 years measuring we asked ourselves...

• does the geographical location affect the time of budburst and the Green up period?

• Which microclimate conditions have the greatest impact on time of budburst and the Green up period?

Hypothesis

 budburst starts earlier in Belišće due to the lower altitude and warmer microclimate but lasts longer in Varaždin due to percipitation

• soil temperature has the greatest influence on time of budburst

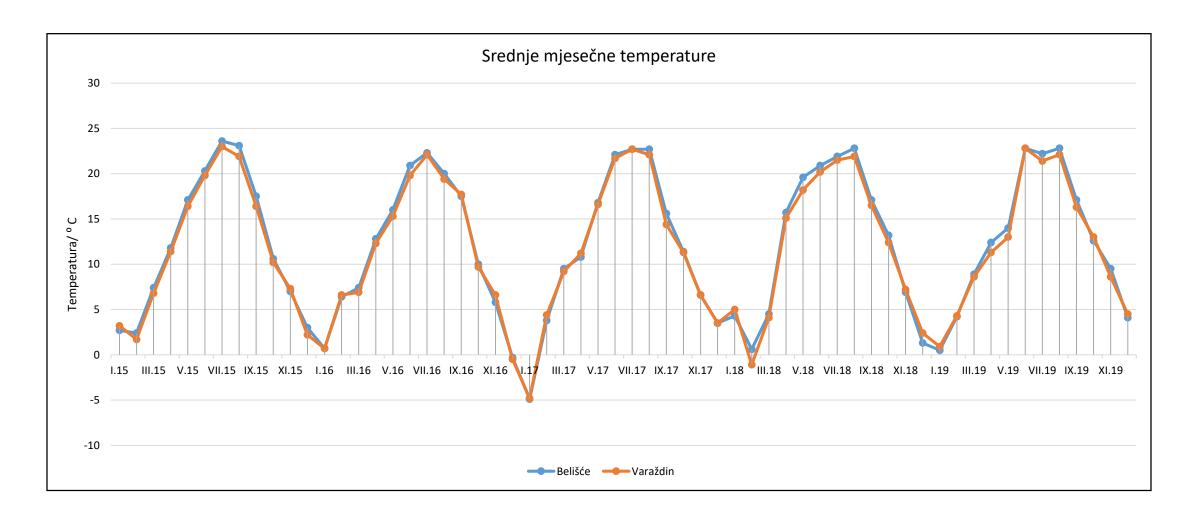
precipitation has the greatest on green up period

Data

year	Time of budburst Varazdin	Time of budburst Belisce	End of vegetation seasion Varazdin	End of vegetation seasion Belisce	Duration of vegetation season Varazdin	Duration of vegetation season Belisce
2015.	6.4.	7.4.	25.5.	19.5.	61	42
2016.	30.3.	24.3.	27.5.	4.5.	58	42
2017.	27.3.	28.3.	25.5.	8.5.	59	42
2018.	29.3.	13.4.	9.5.	8.5.	41	26
2019.	21.3.	28.3	21.5.	23.5.	61	57

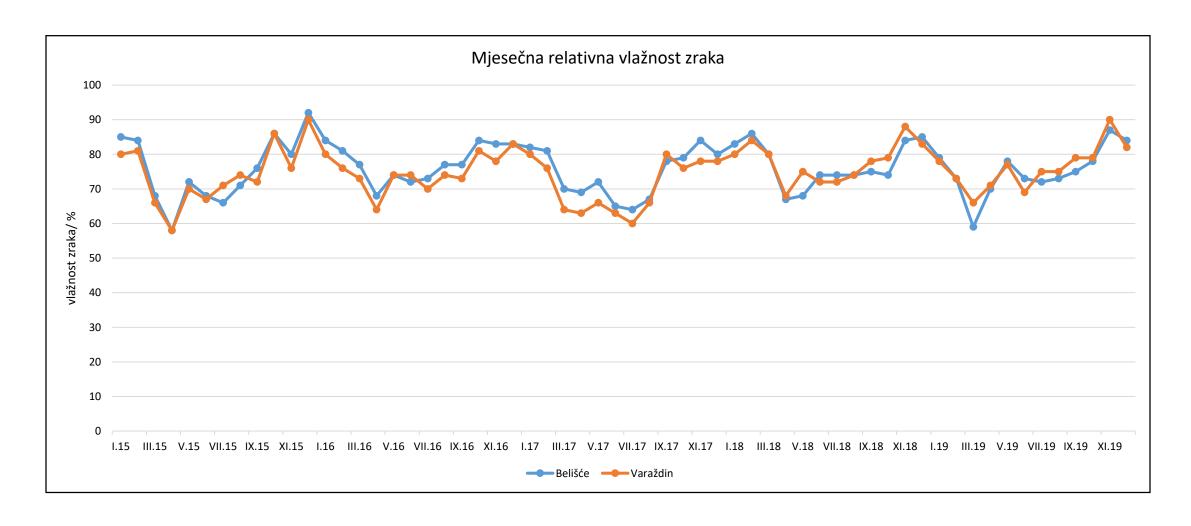
Air temperature at station B and VZ since 2015.

legend: red - Varazdin, Blue - Belisce



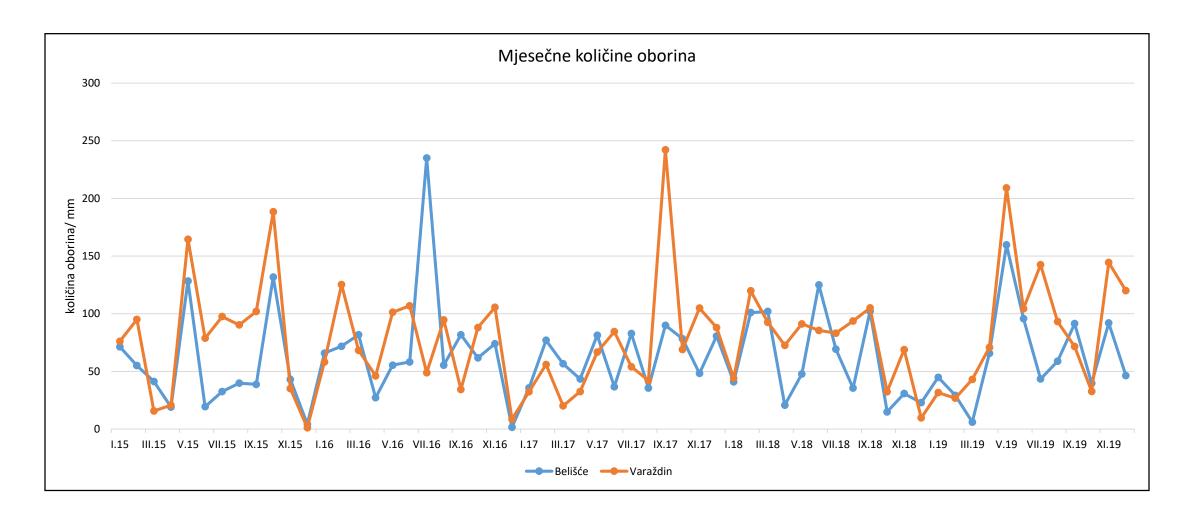
Air Humidity

legend: red - Varazdin, Blue - Belisce



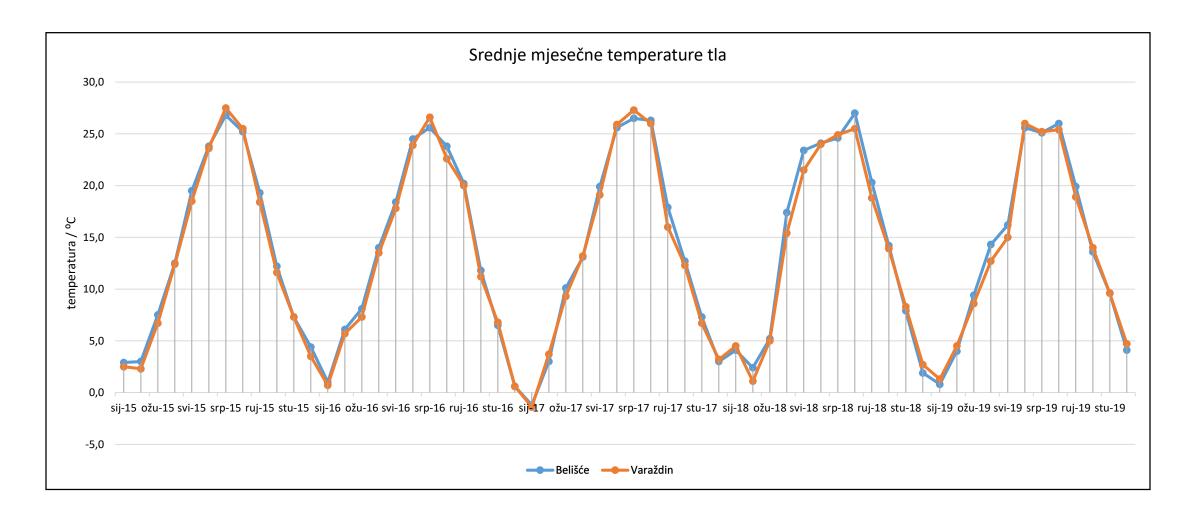
Percipitation

legend: red - Varazdin, Blue - Belisce



Soil temperature at 5 cm

legend: red – Varazdin, Blue - Belisce



Conclusion

- Time of budburst is similar in both station
- Vegetation season is longer in Varazdin because of higher humidity
- the main factors influencing the time of budburst is air and soil temperature

