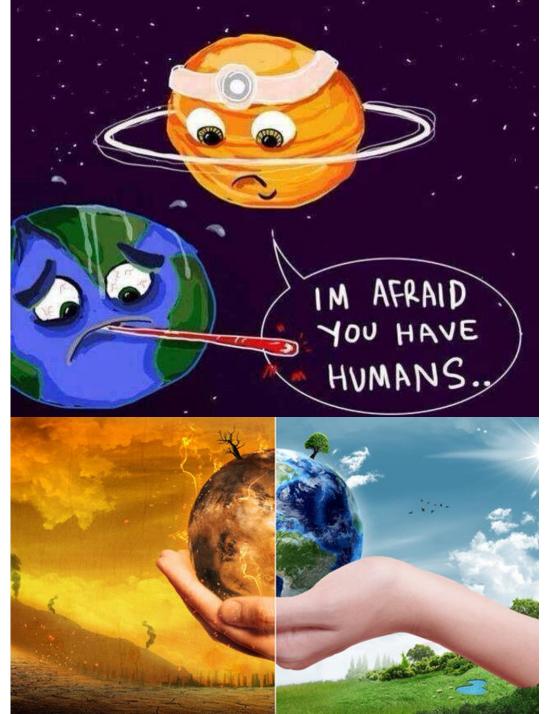


#### Reasons for our research:





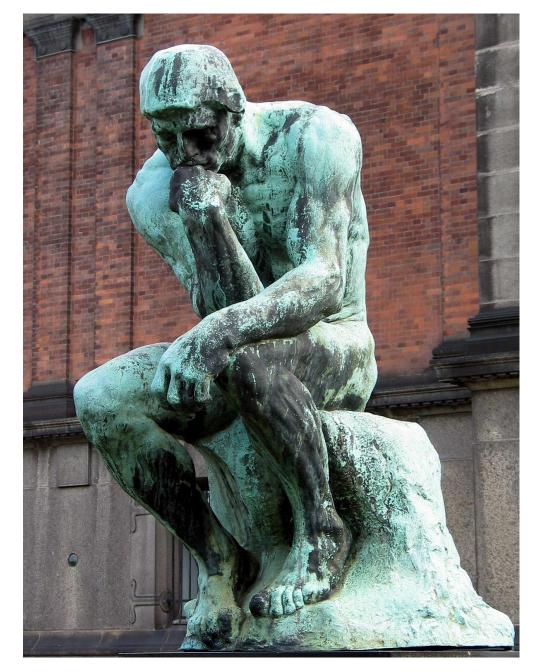


## Questions and hypotheses

#### **QUESTIONS:**

how precipitation and temperature affect the amount of carbon dioxide released, ie the amount of decomposed matter HYPOTHESES:

as the air temperature rises, the amount of decomposed substance increases, ie more carbon dioxide is released into the atmosphere higher rainfall has a positive effect on the decomposition of organic matter

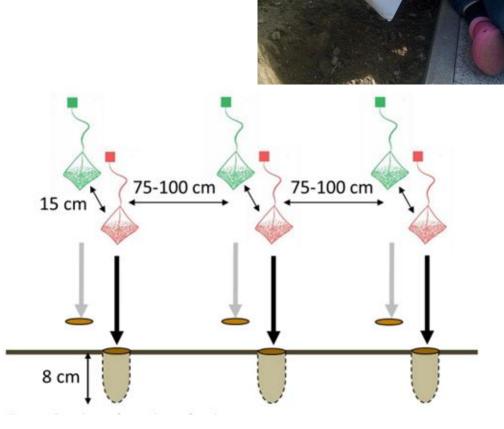


- We looked for answers in Varaždin and Belišće! Collaboration and research work!
- independent variables: rainfall and air temperature
- dependent variables: the amount of carbon dioxide released and the rate of decomposition of the substance
- constant conditions: loamy sand, granular structures covered with grass and deciduous linden trees and temperate continental climate

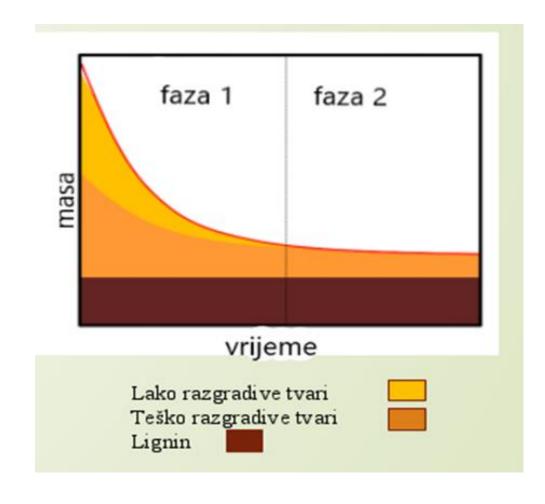
#### Research methods

- TBI method (Tea Bag Index)
- green and roibos tea brand Lipton
- after 3 months calculation of stabilization factor (S) and degradation constant (k)



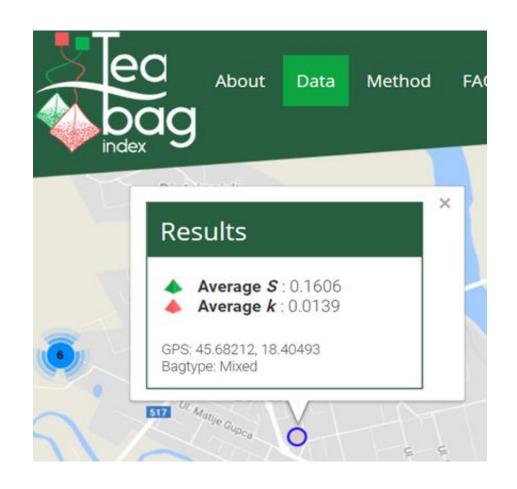


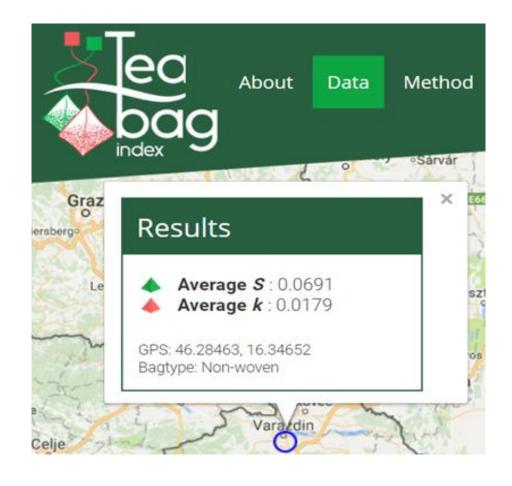
 The survey lasted 3 months: from June 5 to September 1



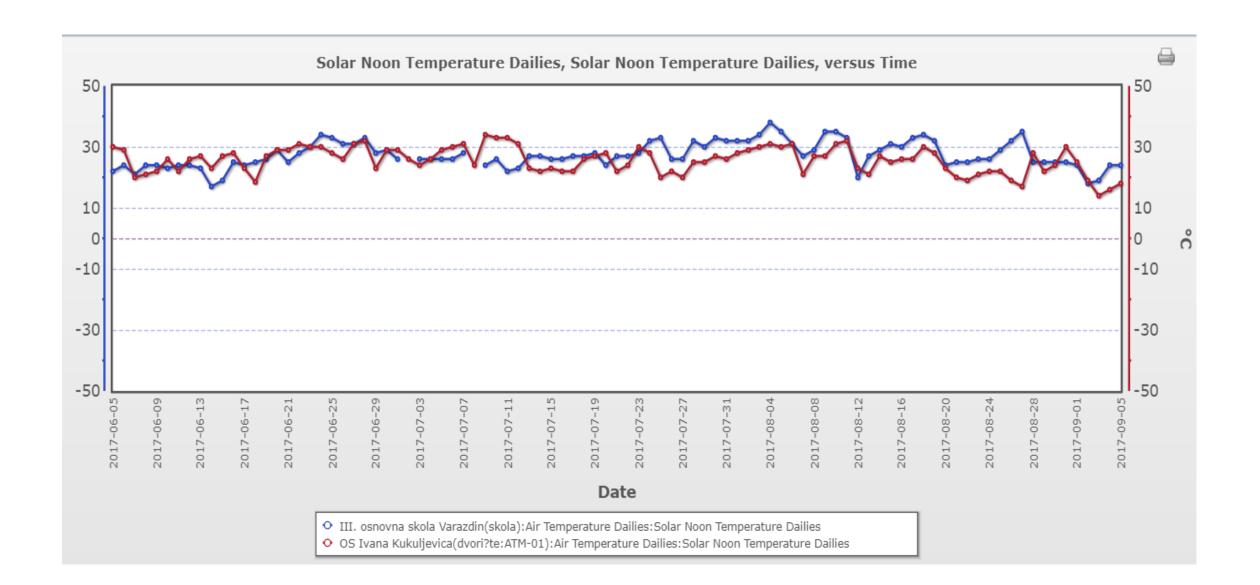


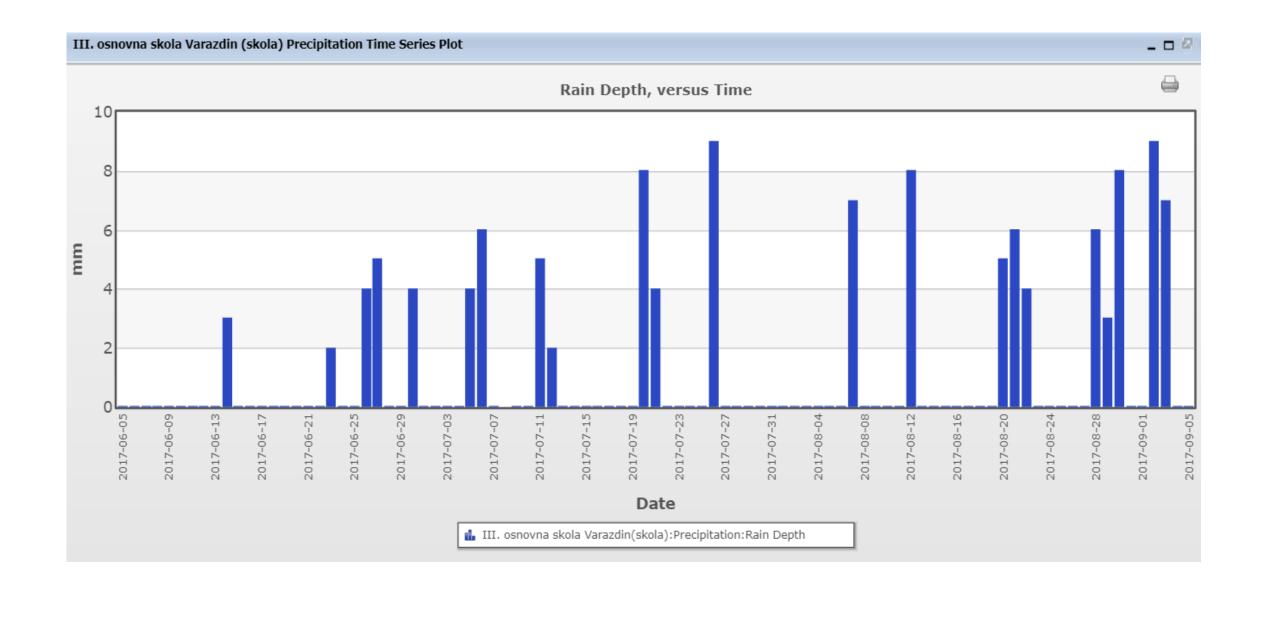
# Data display and analysis:





The values of the constants k and S for the elementary schools I. Kukuljević and III Varaždin Primary School







### Conclusion

- at both stations the decomposition of organic matter proceeded at the same rate
- at the Varaždin station, more organic matter was decomposed and more carbon dioxide was released
- 1 The decomposition of organic matter is positively affected by higher air temperature and higher precipitation



•Thank you for attention!