

A large, detailed image of the Earth as seen from space, showing the continents of Europe and Eurasia. The Earth is set against a dark, starry background.

2021 GLOBE VIRTUAL REGIONAL MEETING FOR EUROPE AND EURASIA

October, 4 – 8, 2021 / Online



MICROPLASTIC IN WATER

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Croatia



- Microplastics have become a well-know enviromental concern in all Earth spheres
- **GLOBE Italy** and **Deakin University** have been partnered to develop and test a draft protocol for microplastic monitoring, with the aim of submitting it to GLOBE as a "**New Hydrosphre Protocol Proposal**" after a "road test" with many school.
- Many GLOBE teacher has invated to testing this protocol. Our two school accepted the invitation.

WHAT HAVE WE LEARNED?

- What are microplastics and where do they come from
- The impact of microplastics on our environment
- How to use scientific equipment to sample microplastic and monitor microplastic in water



WHAT HAVE WE RECIVED?



- Methodological materials for students
- Teacher training live season (webinars)
- Students training support and activites
- Gain acces to unique microplastics image database
- acces to panell of experts

I. REQUIRED MATERIAL

Sampling material:

- Telescopic rod with sample holder
- 500 mL Plastic bottle
- Filtration system
- Gridded Membranes
- Petri Dishes
- Tweezers
- Deionized water
- Microscope
- Thermometer, GPS, camera
- Microscope micrometer calibration ruler

2.PROJECT IMPLEMENTATION

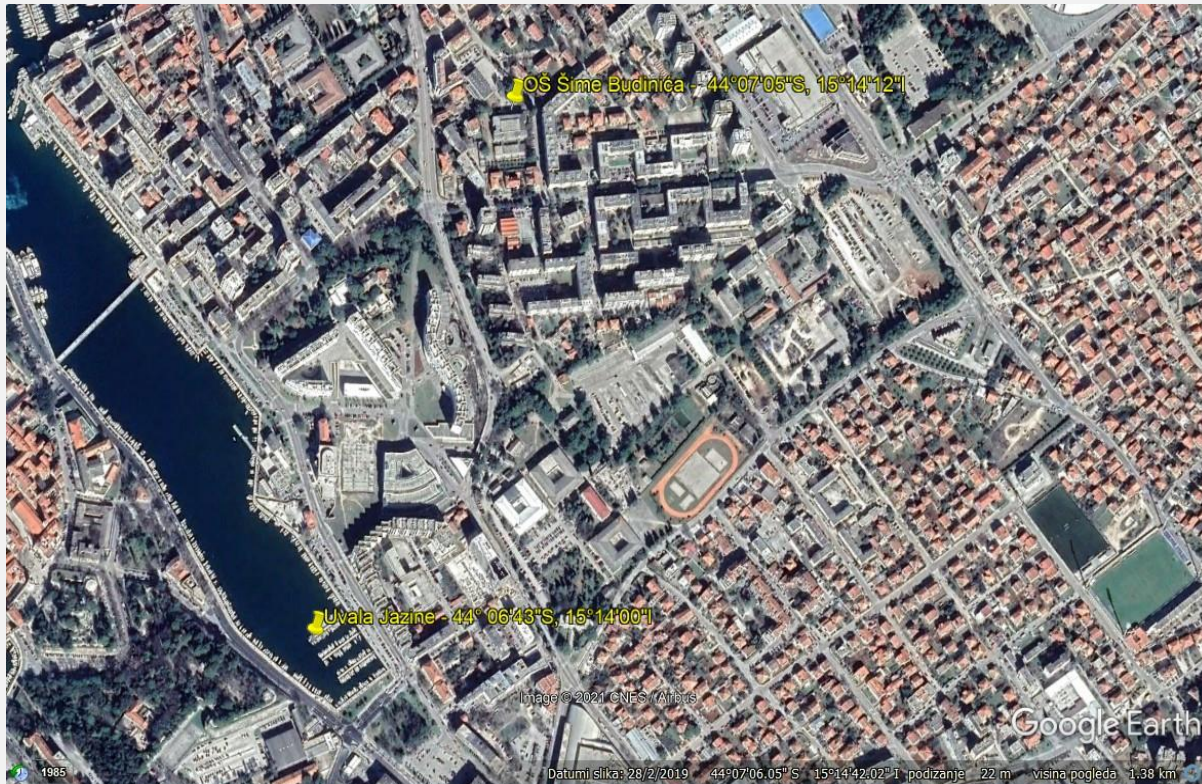
It took us about 15 hours to implement this project.

Implementation included:

- live training (2x2 hours sessions via Zoom)
- self review 2-5h (preparation of activities)
- Student training using learning activities – 4h
- Protocol testing activity – 4h (sample collection, analysis and data recording)
- Webinars for data discussion – 2h

Elementary school

Šime Budinića Zadar, Croatia



Valentin Klarin, Preko, Croatia



SAMPLE COLLECTION LOCATION: JAZINE BAY ZADAR



SAMPLE COLLECTION LOCATION: UVALA JAZ, PREKO



12.05.2021



June 17, 2021.

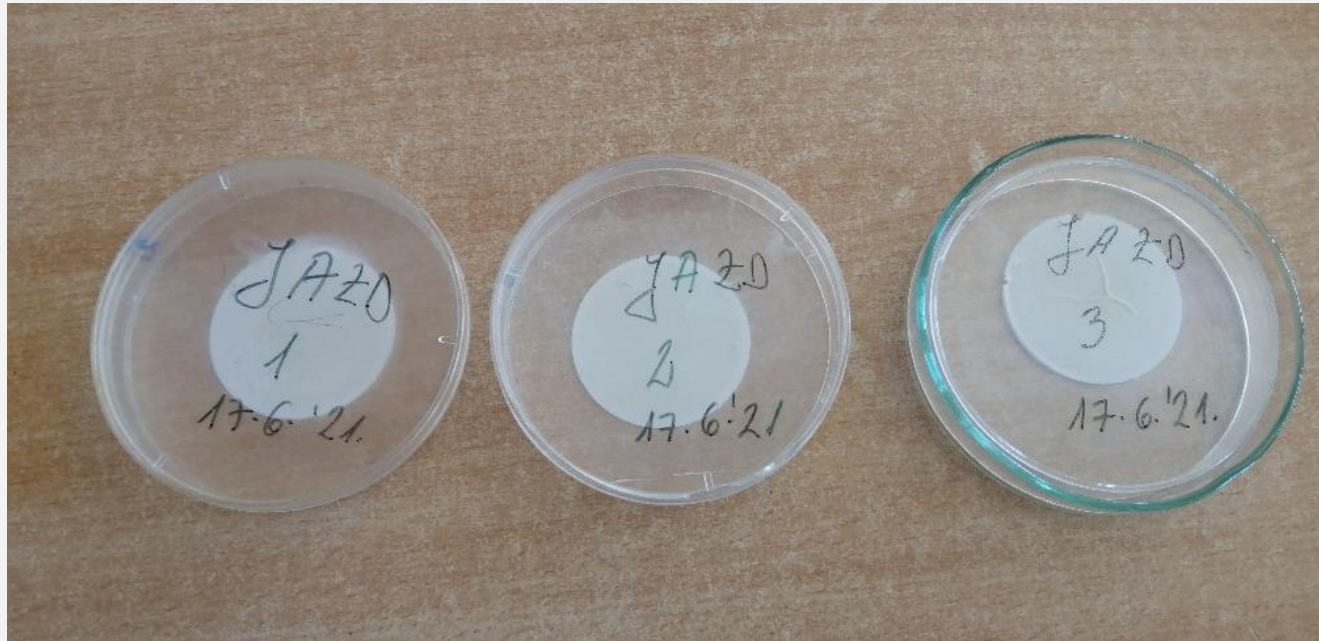




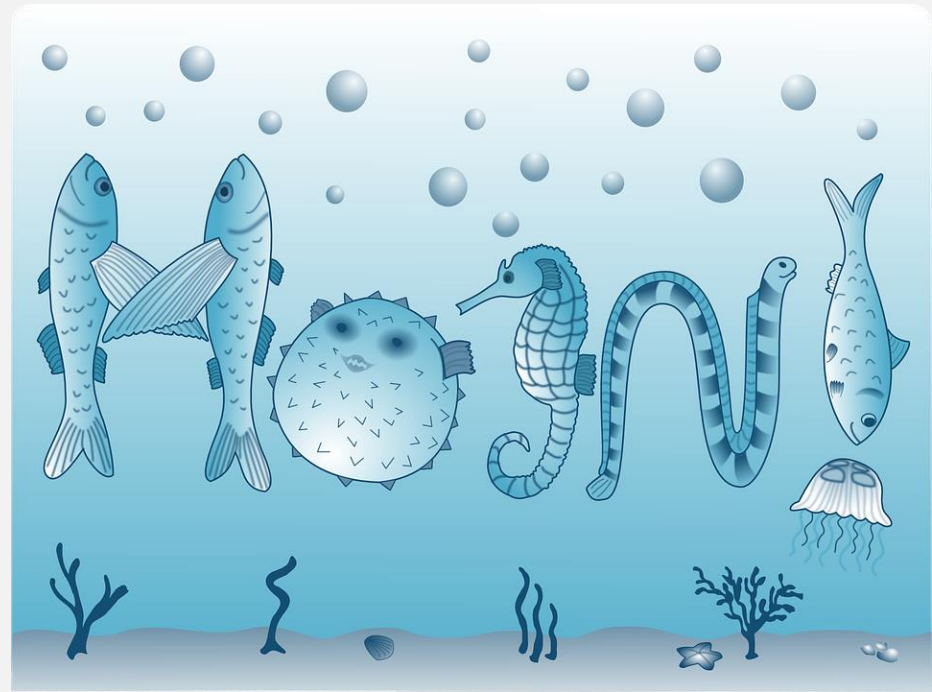
Filtration Activities in the Field



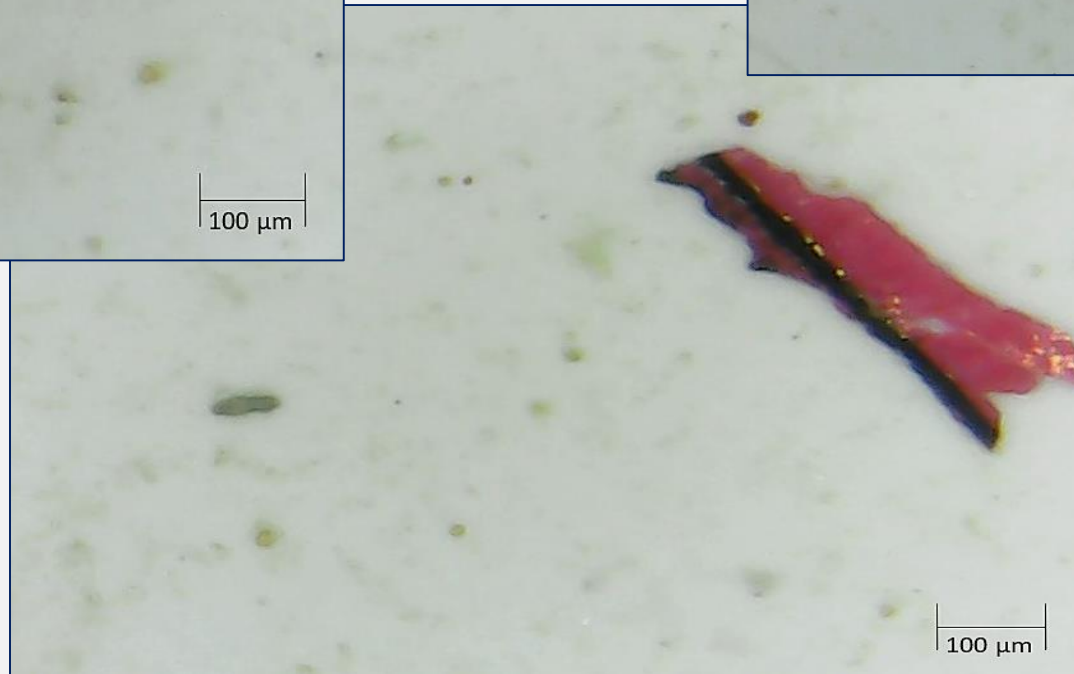
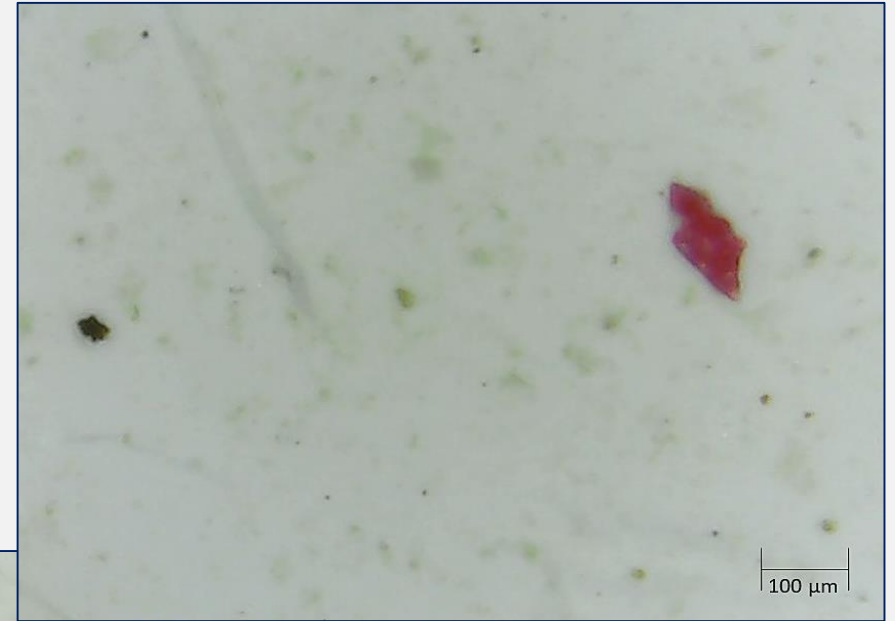
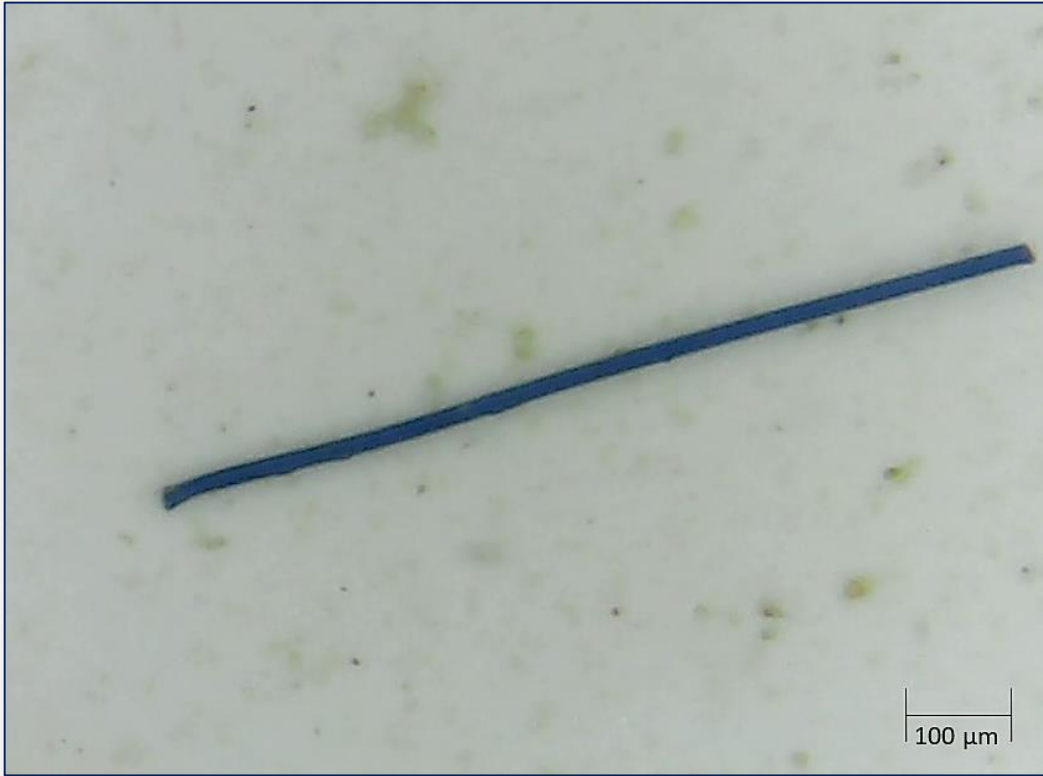
Observation of the samples under the Microscope at School



3. OUR RESULTS



Observation of the samples under the Microscope at School





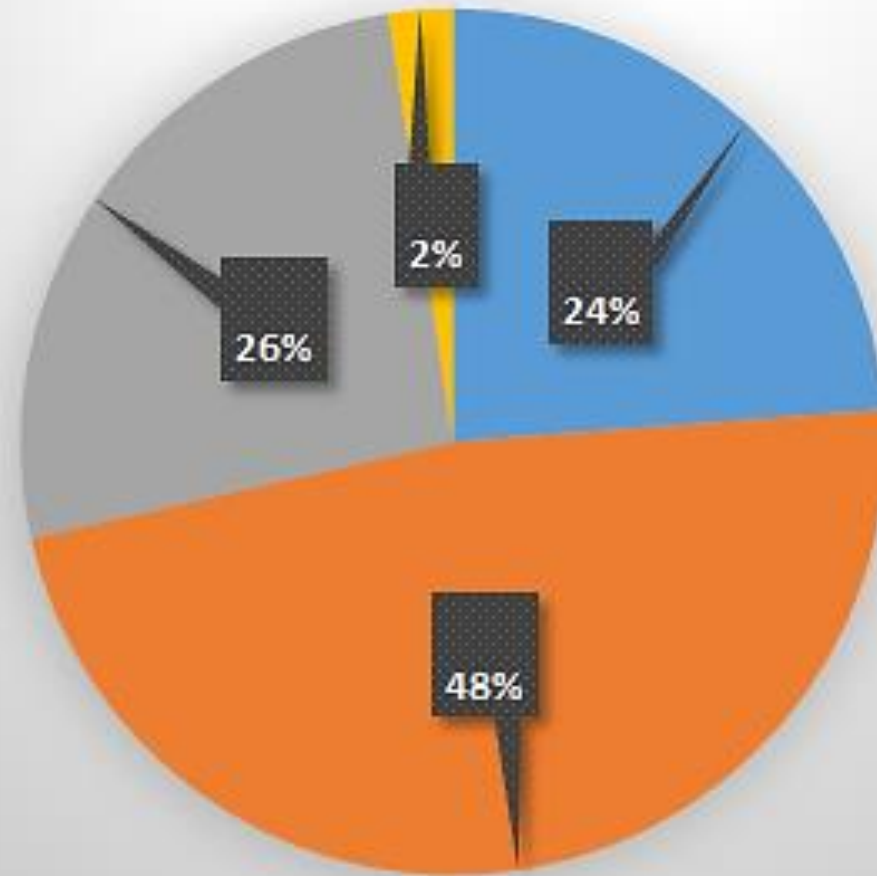
RESULTS FROM PREKO ARE:

1 - Plastic

2 - Natural fibre

3 - Syntetic fibre

4 - Unknown

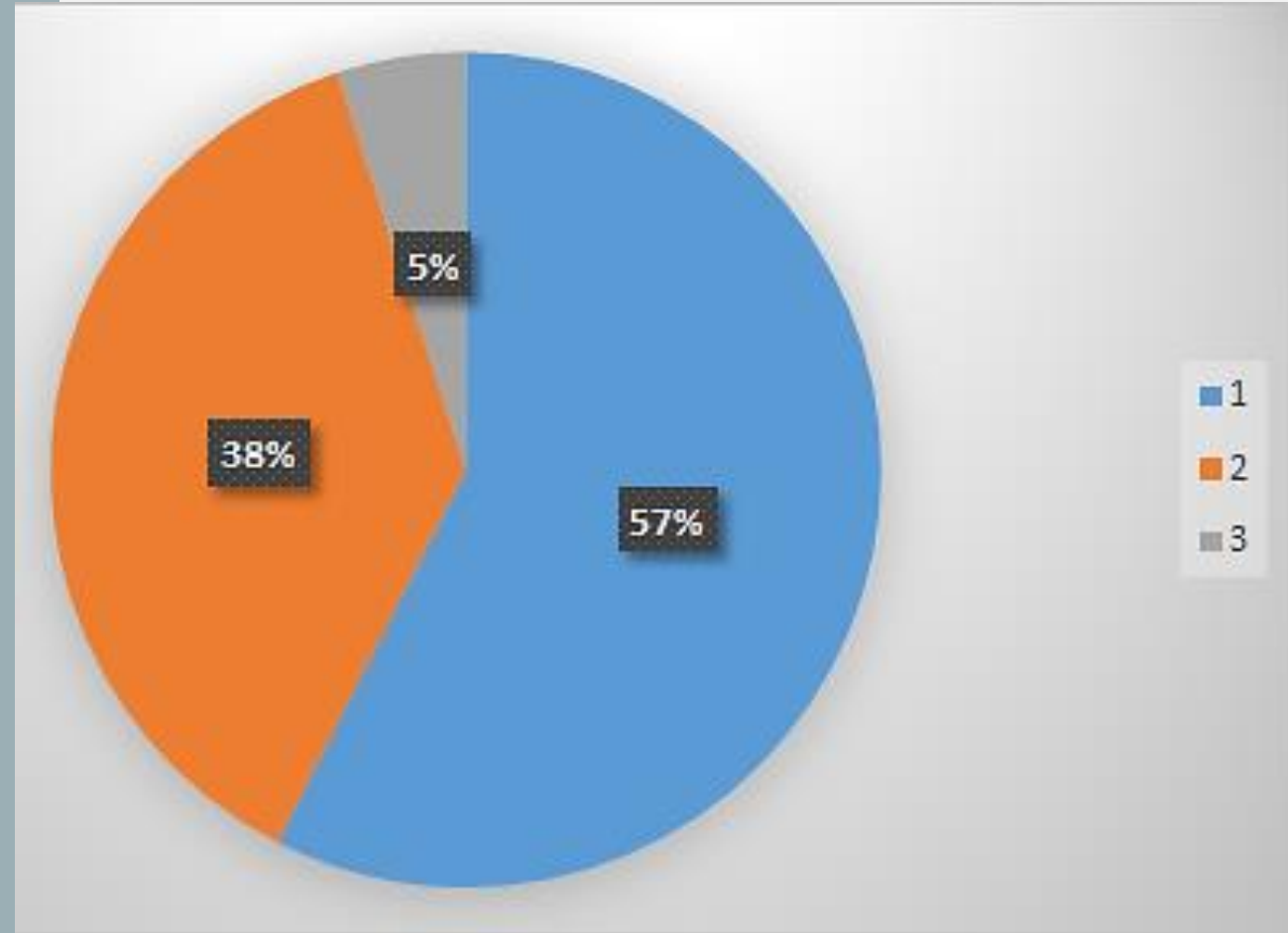


RESULTS FROM ZADAR ARE:

1 - Plastic

2 - Natural fibre

3 - Syntetic fibre



THANK YOU FOR YOUR
ATTENTION!

Jasminka i Anita