

2021 GLOBE Virtual Regional Meeting for Europe and Eurasia

October 4-8.2021.

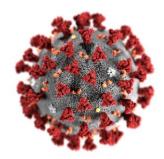
Collaboration of students on project development at the time of pandemic

Zrinka Klarin and Anita Mustać Elementary school Šime Budinić Zadar – CROATIA

GLOBE Develops Competencies and Skills

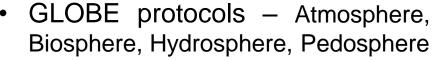








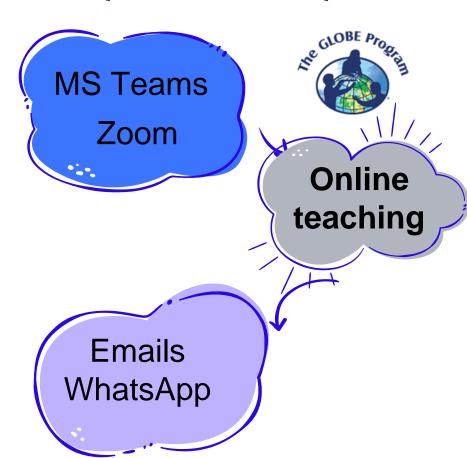
- 12 years in the GLOBE community
- Students from 7 to 14 years
- About 50 students are involved in the Globe project



Globe campaigns

School projects

2019./2020. - 2020./2021.



Positive sides:

- Educational materials are more easily accessible.
- Students can study from any location where there is an internet access.
- ➤ Interpersonal communication between student and teacher is more common.
- Developing Internet and computer skills.

Negative sides:

- Students feel isolated from teacher and colleagues.
- ❖ Fieldwork is not possible.
- Learning can be easily abandoned.
- Managing computer programs can be very complicated for students.

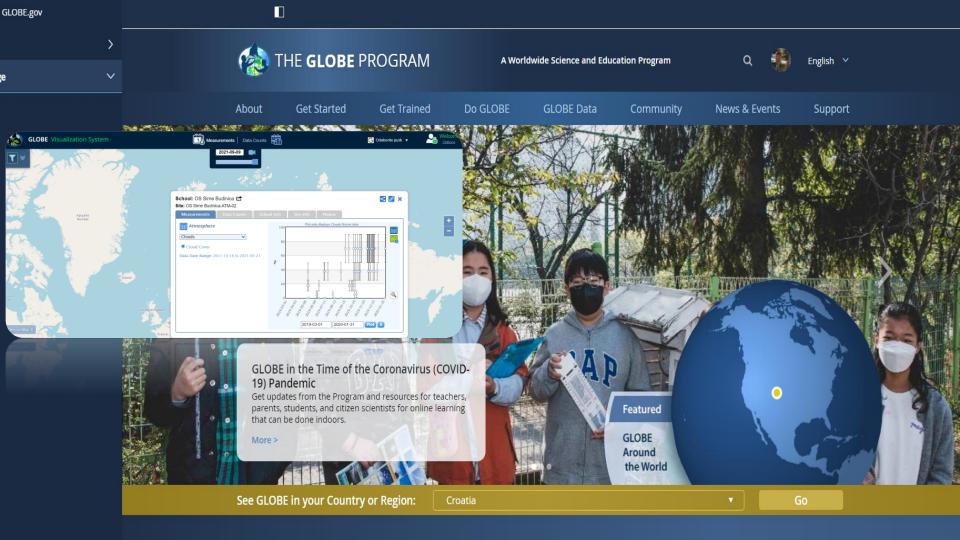


State Competition

Agencija za odgoj i obzazovanje I ducution and Teacher Training Agency	IZNIMNO USPJEŠNI PROJEKTI DRŽ	AVNE RAZIN	NE SIN GLOBE 2021.
Naziv škole	Naziv projekta	Sekcija	
OŠ Veli Vrh, Pula	Posljedice pošumljavanja Velog Vrha	pokrov	
OŠ Dubovac, Karlovac	Tko je vidio krijesnice?	pokrov	
OŠ prof. Franje Viktora Šignjara, Virje	Temperatura tla u Virju	tlo	
OŠ Ivane Brlić-Mažuranić, Virovitica	Što nam govore oblaci	atmosfera	
OŠ Šime Budinića, Zadar	Oblaci nad mojim gradom	atmosfera	
Gimnazija "Matija Mesić", Slavonski Brod	Pitka voda u Slavonskom Brodu	voda	
OŠ Banija, Karlovac	Posoli za pH	voda	







RESEARCH QUESTIONS/HYPOTHES



What types of clouds most often formed in the sky above our school in 2019?



What types of clouds did we least notice in the sky above our school in 2019?



How often we had contrails in the sky?



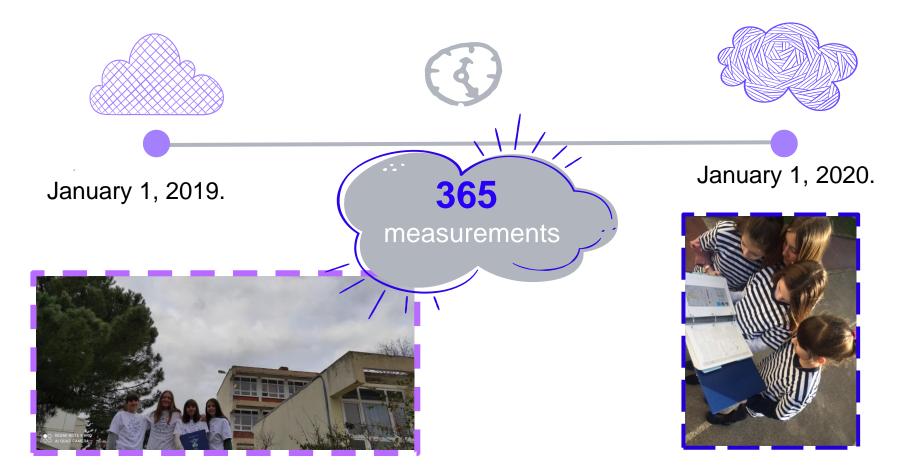


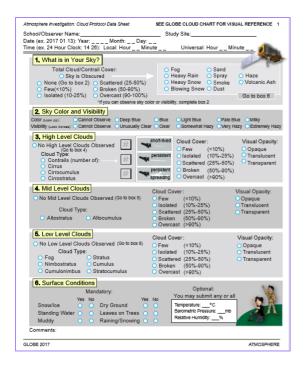
Figure 1. OS Sime Budinica station: ATM-02

N 44.1173 E 15.2365

Google Earth

TIME of observing cloud types





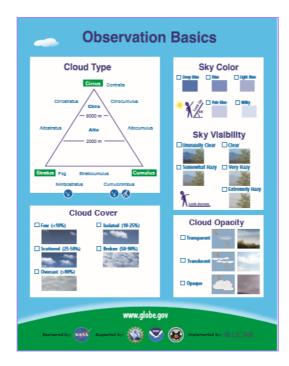




Figure 2. Cloud data entry list

Figure 3. List of cloud types

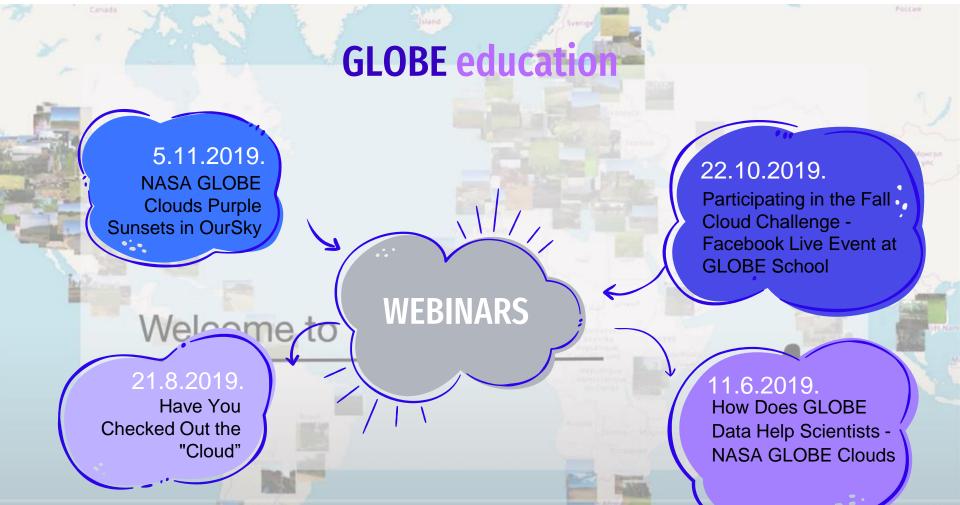
Figure 4. GLOBE application

NASA GLOBE Observer Cloud Satellite Match

and described within	_ 📥
vori detaljan prikaz	

NASA	N	IASA Cloud Observation and Satellite Match	
Satellite		GEO	Your Observation
Universal Dat	e/Time 2019-11-14	14:10	14:20
Latitude Rang Longitude Ra		43.8 to 44.44 14.92 to 15.56	Latitude 44.117600 Longitude 15.236600
Total Cloud C	over	Overcast 98.66%	Broken (50-90%)
H I G H	Cloud Cover Cloud Altitude Cloud Phase Cloud Opacity	Few (1 33%) 622 (km) lce 255 35 (K) Transparent	Cirrus Cirrocumulus Broken (50-90%) Translucent
M I D	Cloud Cover Cloud Altitude Cloud Phase Cloud Openity	Cvercast 97 33% 3 43 (km) 3.43 (km) Mixed 267 73 (K) Translucent	Altostratus Broken (50-90%) Translucent
L O W	Cloud Cover Cloud Altitude Cloud Phase Cloud Opacity	No Clouds O	Cumulorimbus Cumulus Stratocumulus Broken (50-90%) Opaque
Correspondin Satellite Imag Click to view	es.		Sky Visibility : no report Sky Color : no report
Are there any	comments you would like to add? Be sure to add the name of the satellite for our record.		Surface Conditions Snowlice No Standing Water Yes Muddy Yes Dry Ground No Leaves on Trees Yes Raining or Snowing No

Figure 5. Matching data NASA GLOBE Observer Cloud Satellite Match and OS Sime Budinica: ATM-2





VISIT to the institution

State Hydrometeorological Station Zadar - Puntamika

March 5, 2020.

Collaboration of several Zadar GLOBE schools that participated in the training with meteorologist Anđelko Vidović.



WORKSHOP "Small GLOBE students"

April 10, 2020.

Globe students held a workshop
"Small GLOBE students" in our school
and taught our pupils how to recognize
the basic cloud types.







Competencies and Skills



- the ability to perceive nature around us
 - data collection
 - measurement accuracy
 - study conducted systematically
 - ability to analyze and compare data
 - drawing conclusions
 - use of ICT



Competencies and Skills in virtual reality



- recognizing dangers on the Internet
- visiting secure sites on the Internet
- appropriate behavior on the Internet
- appropriate communication between students
- developing the ability to graphically display data
- developing the ability to use different applications

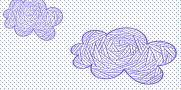


Competencies and Skills



- communication in mother tongue and foreign languages
 - developing mathematical and basic skills
 - in science and technology
 - learn how to learn







Zrinka Klarin and Anita Mustać,

Elementary School Šime Budinića Zadar

CROATIA