

THE GLOBE PROGRAM

Škola za medicinske sestre Vrapče

26.03.2015. - 29.03.2016.

MEĐUŽUPANIJSKO VIJEĆE

MEĐUŽUPANIJSKE SMOTRE

GLOBE VREMEPLOV

TREE RING PROJEKT

GLOBE AKTIVNOSTI

GLOBE - FACEBOOK

KROKSTADORA-ZAGREB

GLOBE HOME PAGE

GLOBE - HRVATSKA

TREE RING

<http://www.ss-medicinske-vrapce-zg.skole.hr/globe/>

1. MINULI RAD U PROGRAMU GLOBE

$$bb = (BGG/MaxBG) * 6 + (BGDS/BGG) * 3$$

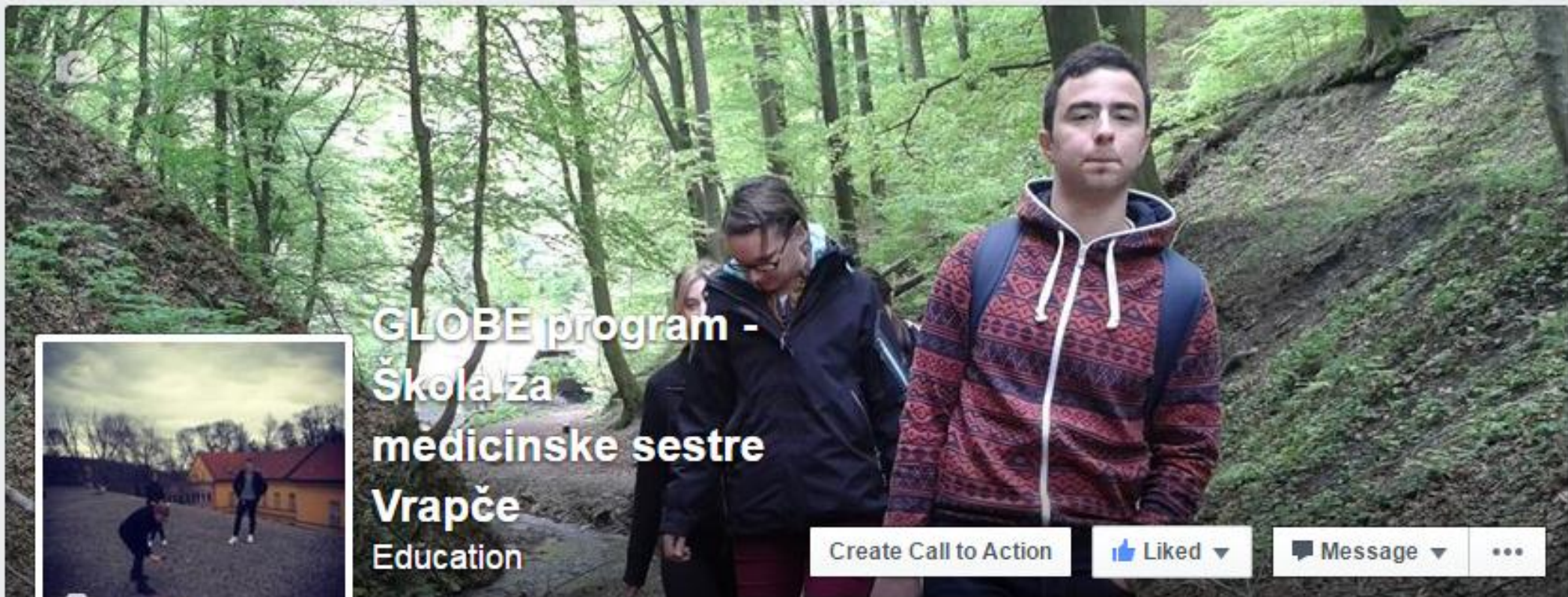
BGG - broj godina u GLOBE programu = 19

MaxBG – maksimalno mogući broj godina (računajući od 1996.) = 20

BGDS - broj godina na državnoj smotri = 17

bb - broj bodova

$$bb = 5,70 + 2,68 = 8,38$$



GLOBE program -
Škola za
medicinske sestre
Vrapče
Education

Create Call to Action Liked Message

Promote THIS WEEK 68 Post Reach 25 Post Engagement 0 Website Clicks

Recent 2015 2014

25.3.2015. →

Organization Measurements and Accomplishments

Participation

3 Teachers	1 School
0 Pre-Service Teachers	20 Students
272,700 Data Entries	12 Honor Rolls

Recognition **Most Used**

GLOBE Science Honor Rolls

View Honor Roll details

1 I	1 II	0 III	Clouds
0 I	1 II	6 III	Atmosphere
0 I	1 II	0 III	Hydrology

Student Research Reports

2 Physicochemical characteristics of water of streams on Medvednica mountain II
2014-10-05
See all 2 reports

→ 30.3.2016. →

Organization Measurements and Accomplishments

Participation

3 Teachers	1 School
0 Pre-Service Teachers	10 Students
368,218 Data Entries	17 Honor Rolls

Recognition **Most Used**

GLOBE Science Honor Rolls

View Honor Roll details

1 I	1 II	0 III	Clouds
0 I	4 II	8 III	Atmosphere
0 I	1 II	0 III	Hydrology

Student Research Reports

3 Light pollution and our sleep
2015-05-15
See all 3 reports

XVIII. DRŽAVNA SMOTRA I NATJECANJE HRVATSKIH GLOBE ŠKOLA DARUVAR, 2015.

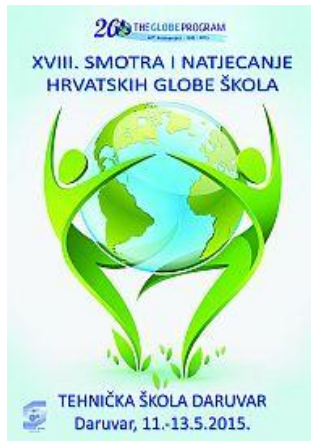


Projekti sekcije METEOROLOGIJA 1

Ocjenjivačko povjerenstvo

Predsjednica: mr.sc. Marina Grčić

Članovi: Kristina Krtalić, prof., Milena Prodanović



Škola za medicinske sestre Vrapče	Zagreb	Svjetlosno onečišćenje i naš san
Prirodoslovna i grafička škola	Rijeka	Što to tamo lebdi ?
Ekonomsko-birotehnička i trgovačka škola	Zadar	Naše kišno ljeto
OŠ Antuna Mihanovića	Osijek	Gniježđenje bijele rode u gradu Osijeku
OŠ Eugena Kumičića	Slatina	Batat u školskom vrtu
Srednja škola Vela Luka	Vela Luka	Utjecaj mora na klimatske uvjete općine Blato i Vela luka
Šumarska i drvodjeljska škola	Karlovac	Usporedba mjerenja oborine satelitskim uređajima s GLOBE kišomjerom

XVIII. Smotra i natjecanje GLOBE škola Hrvatske

Orijentacijsko natjecanje - srednje škole

Rang	Škola	Mjesto	Bodovi		
			za znanje	za vrijeme	Ukupno
1.	Gimnazija Karlovac	Karlovac	59,5	13,8	73,3
2.	XV. Gimnazija	Zagreb	56,5	11,5	68,0
3.	Šumarska i drvodjeljska škola	Karlovac	43,0	16,5	59,5
3.	II gimnazija	Zagreb	53,5	5,5	59,0
4.	Škola za medicinske sestre Vrapče	Zagreb	35,0	12,8	47,8
5.	SŠ Petrinja	Petrinja	35,0	11,0	46,0
6.	ŽOG sestara milosrdnica	Zagreb	38,5	7,1	45,6
7.	SŠ Prelog	Prelog	31,5	11,9	43,4
8.	Prirodoslovna i grafička škola	Rijeka	41,5	0,0	41,5
9.	SŠ Mate Blažine	Labin	31,5	3,4	34,9
10.	SŠ Vela Luka	Vela Luka	28,5	3,7	32,2
11.	Ekonomsko-birotehnička i trgovačka škola	Zadar	13,0	7,3	20,3

2. MJERENJA

ATMOSFERA HIDROLOGIJA BIOMETRIJA TLO
 GLOBE AT NIGHT 2016 CLOUDSAT



ATMOSFERA HIDROLOGIJA BIOMETRIJA TLO
 GLOBE AT NIGHT 2016 CLOUDSAT

ATMOSFERA HIDROLOGIJA BIOMETRIJA TLO GLOBE AT NIGHT 2016 CLOUDSAT



I njemu treba podrška...

ATMOSFERA

Temperatura zraka - DAVIS

Oborine - DAVIS

Tlak zraka - DAVIS

Vlažnost zraka – DAVIS

Smjer i brzina vjetra-DAVIS

Oblaci- „pješice”

Aerosoli- ”pješice”



HIDROLOGIJA

Temperatura vode

Ph vode

Nitrati

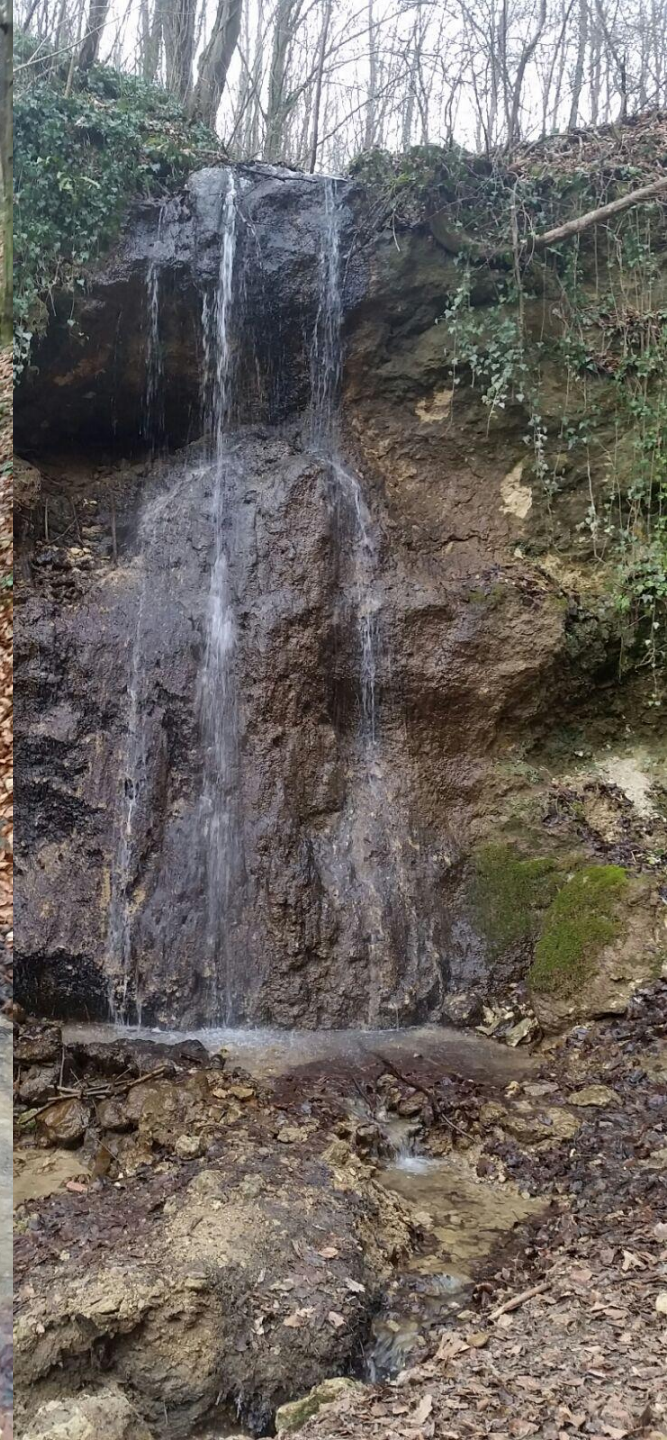
Kisik

Električna vodljivost

Prozirnost



Hidrološka postaja
POTOK DRAGULINEC



Biometrija

Određivanje pixela

Pokrovnost krošnje- Canopy cover

Pokrovnost prizemnog pokrova-Ground cover

Opseg drveta

Visina drveta



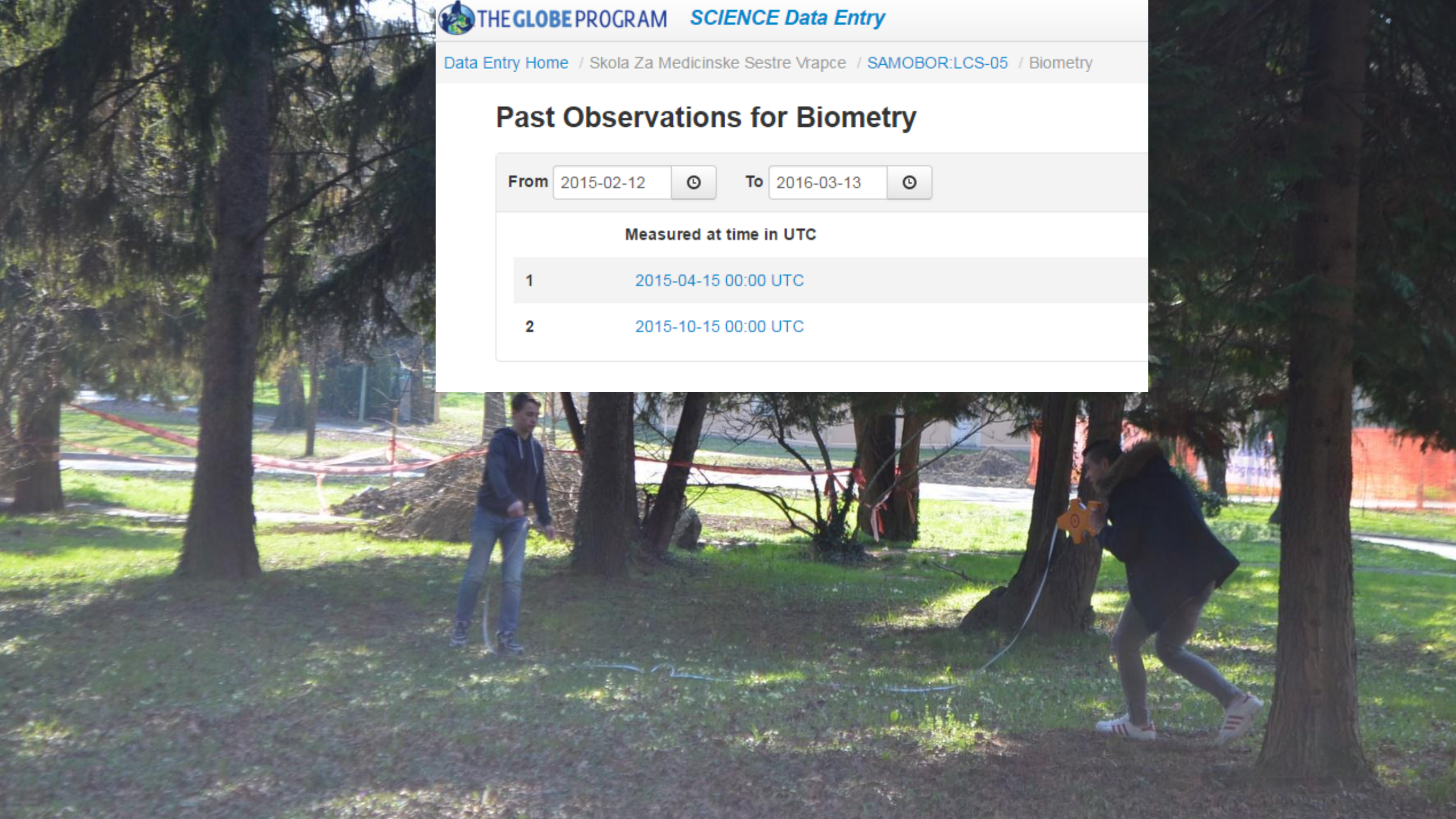


Past Observations for Biometry

From  To 

Measured at time in UTC

- | | |
|---|--------------------------------------|
| 1 | 2015-04-15 00:00 UTC |
| 2 | 2015-10-15 00:00 UTC |

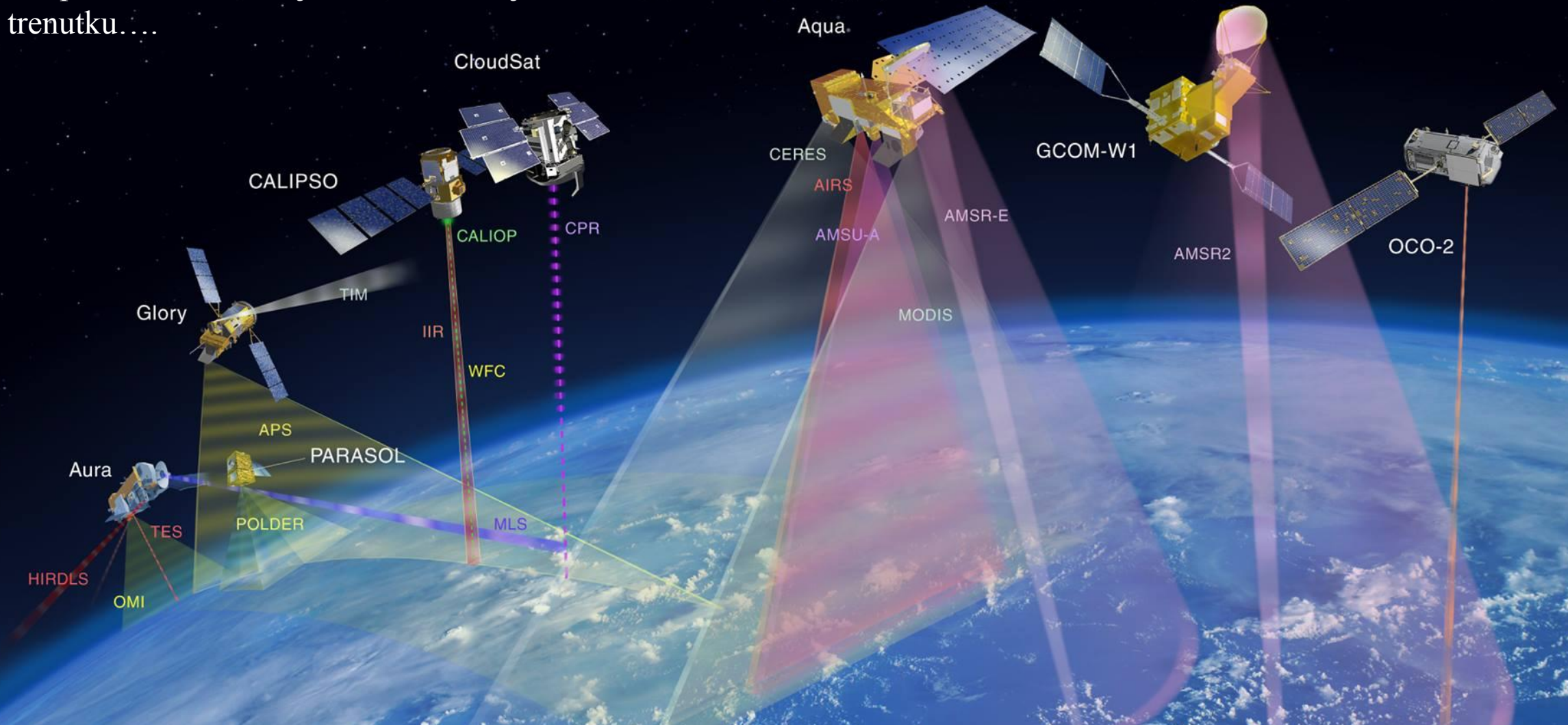




Measurement Campaigns

CloudSat Satellite Mission above Vrapce

Pratimo „vozni red” satelita koji snima oblake s gornje strane dok ih mi promatramo s donje strane, važno je da to učinimo u istom trenutku....





CloudSat Education Network

CloudSat Education Network: Data Retrieval Page ([Logout](#))

Welcome to the **CloudSat Education Network, Skola za medicinske sestre Vrapce**

This is the list of dates of observations from your school - click on the link to see that date's observation

Click [here](#) to see photos from your school.

Observations from 18 Mar 2016 12:47 UTC: [Click Here](#)

Observations from 15 Mar 2016 12:47 UTC: [Click Here](#)

Observations from 12 Mar 2016 12:18 UTC: [Click Here](#)

Observations from 03 Mar 2016 12:16 UTC: [Click Here](#)

Observations from 25 Feb 2016 12:35 UTC: [Click Here](#)

Observations from 18 Feb 2016 12:09 UTC: [Click Here](#)

Observations from 16 Feb 2016 12:20 UTC: [Click Here](#)

Observations from 09 Feb 2016 12:08 UTC: [Click Here](#)

Observations from 07 Feb 2016 12:18 UTC: [Click Here](#)

Observations from 25 Feb 2015 12:35 UTC: [Click Here](#)

**To the staff and students at the Skola za medicinske sestre Vrapce
We greatly appreciate the efforts by our observers and can't thank you enough.
Your observations are important contributions to the CloudSat mission.
Please feel free to contact us at anytime with questions or suggestions.**



KORIŠTENJE PODATAKA-GLOBE U NASTAVI

Home > Community > Skola Za Medicinske Sestre Vrapce > Overview

Overview

Contact Info

Highlights

Image Gallery

Resources



**Skola Za
Medicinske
Sestre
Vrapce**

Year Joined: 1997.

Number of Students: 20

Grade Levels: Higher Ed: 13+

Principal: Latinka Kriznik, prof.

School Type: Public



TELL US ABOUT IT

Members



[Edit](#) Date Modified: 09/10/2012

Highlights

09/30/2015
School curriculum 2015_2016
GLOBE program extra curriculum activity in our school

09/30/2014
GLOBE in School curriculum
GLOBE in School curriculum

05/01/2014
Tree Ring Poster
Tree Ring Poster

11/29/2013
School exchangeCroatia-Norway
School exchangeCroatia-Norway

Organization Measurements and Accomplishments

Participation

3 Teachers	1 School
0 Pre-Service Teachers	20 Students
359,034 Data Entries	17 Honor Rolls

Recognition Most Used

GLOBE Science Honor Rolls

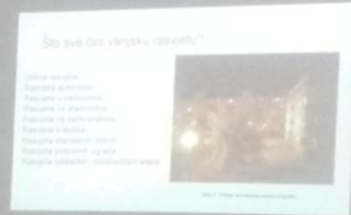
[View Honor Roll details](#)



Student Research Reports

Light pollution and our sleep
2015-05-15
[See all 3 reports](#)

Geografija



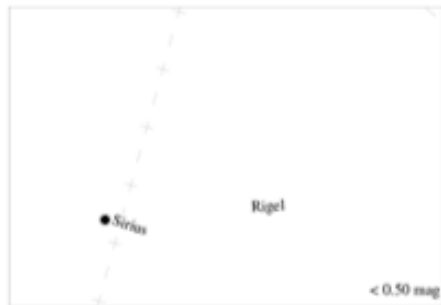
Svjetlosno onečišćenje
i naš san
GLOBE at night 2016.
1.B razred



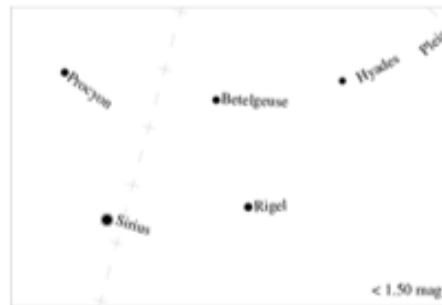
Ime i prezime učenika: _____ Adresa –ulica, broj, grad _____ Razred: _____

(velikim štampanim slovima)

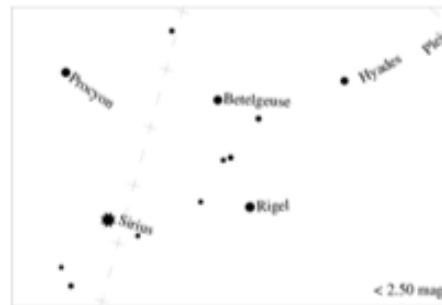
Constellation: Orion Latitude: 40N



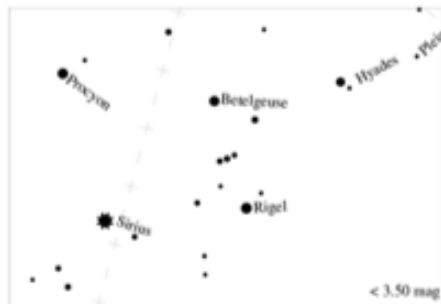
Magnitude 0/Cloudy Sky



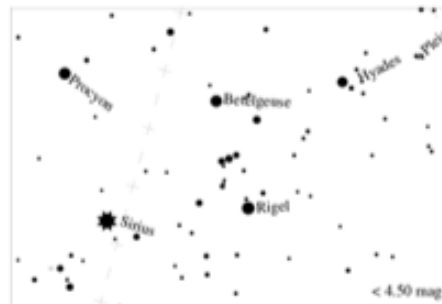
Magnitude 1 Chart



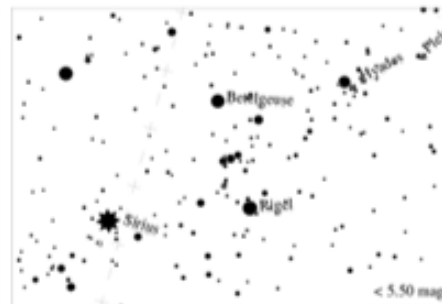
Magnitude 2 Chart



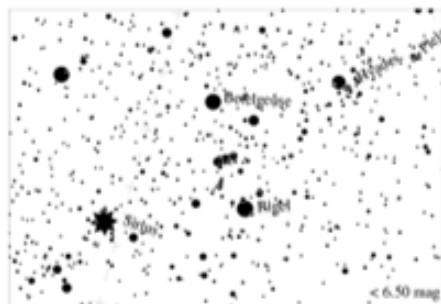
Magnitude 3 Chart



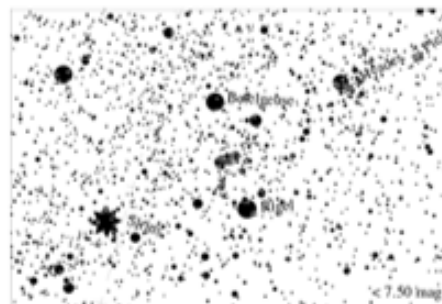
Magnitude 4 Chart



Magnitude 5 Chart



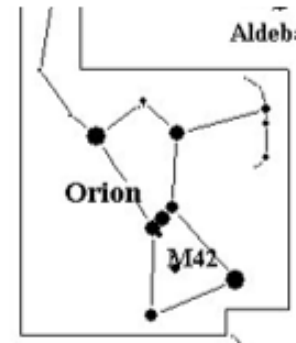
Magnitude 6 Chart



Magnitude 7 Chart

4 What were sky conditions like that night?

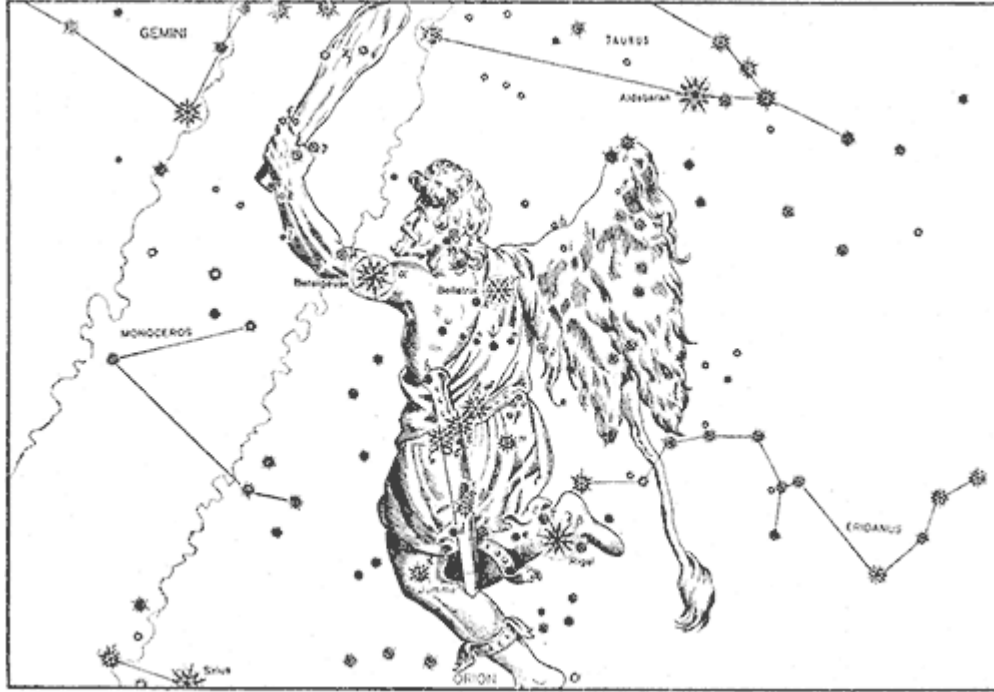
PROMATRANJE ZVIJEŽDA ORION



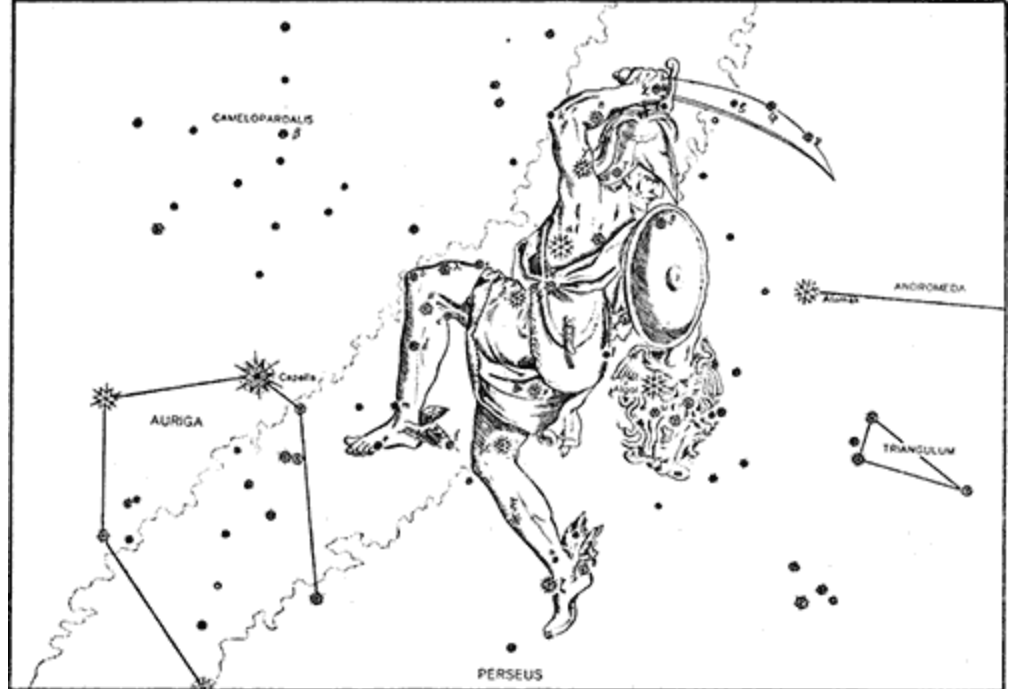
- 1) IZMEĐU 20,00 – 22,00 SATI
- 2) OKRENITE SE PREMA JUGU-JUGOISTOKU
- 3) PRONAĐITE NAJSJAJNIJE ZVIJEZDE (PREMA GORNJOJ SKICI)
- 4) USPOREDITE CIJELO NEBO S MAGNITUDAMA
- 5) UPIŠITE PODATKE U TABLICU

	SATI	NAOBLAKA SKY CONDITIONS	MAGNITUDA
1.3.2016.			
2.3.			
3.3.			
4.3.			
5.3.			
6.3.			
7.3.			
8.3.			
9.3.			
10.3.			

LATINSKI JEZIK - UKLJUČEN „GLOBE ATNIGHT 2016.”



U latinski jezik, naučili smo da je Orion stradao jer je bio samodopadan, da je Hercul bio nesavladiv dok ga žena nije dokrajčila ,a Perzej je ostao nepobjediv jer je koristio žensku „glavu” !!!



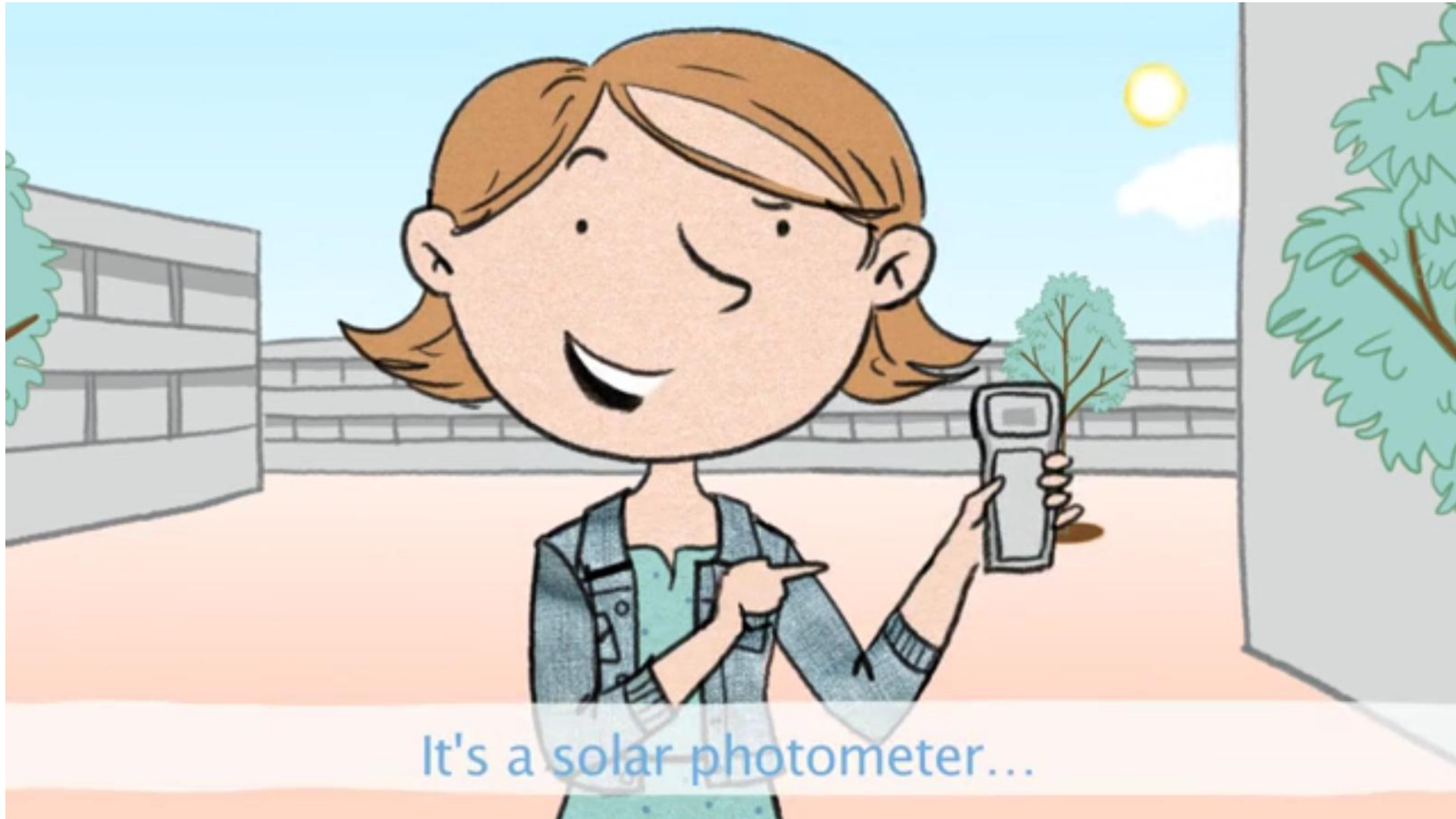
Biologija- terenska nastava ZOO + fizikalno-kemijska svojstva maksimirskog jezera







AEROSOLI U EUROPI



Uključili smo se u europski GLOBE projekt „Aerosoli u Europi“ u kojem sudjeluju škole iz Norveške, Češke, Francuske, Njemačke, Italije i Hrvatske...

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[News & Events](#) > [GLOBE Stars](#)

[News & Events](#)

GLOBE Stars

[About Stars & Instructions](#)

Europe Aerosols Campaign

Dec 15, 2015



Prvi sastanak bio je u Pragu i Novom Mestu, u IX.mj.2015.



Novi globovsko aerosolski par postalo je Vrapce i norveški Stavanger...





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[Tidsskrift](#)

[Nettsteder](#)

[Konferansar og kurs](#)

[Konkurransar](#)

[Forskning](#)

[Prosjekter](#)

[Den naturlege skulesekken](#)

[Energiskolene](#)

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[Lektor 2](#)

[Karakterstøttande prøvar](#)

[Hva kan jeg bli med realfag?](#)

[Realfagskommuner](#)

[ReleKvant](#)

[Skuleutvikling i naturfag \(SUN\)](#)

[TEKin](#)

[Realfagstrategien](#)

[Geoprogrammet](#)

[Nettverk](#)

[Om Naturfagsenteret](#)



Del:

Aerosols in Europe

FREDAG 31. OKTOBER 2014

“Aerosols can be found everywhere in the atmosphere – but they’re challenging to understand. Where do they form naturally, and how much do we emit artificially? How are they transported by the weather? How do they affect the climate – directly, and through their influence on cloud formation? Among the remaining problems in aerosol research, aerosols are one of the most exciting, and difficult. Through studies of the amount of aerosols in the atmosphere at locations where we have not previously had measurement stations, schools can give an important contribution to our understanding of the Earth’s climate.”

Bjørn Samset, Cicero Norway

Why aerosols?

Aerosols are small particles, smaller than 10 micrometers, which are suspended in the atmosphere. Interacting with solar radiation (sun light), they play an important but not so well understood role in climate change and in air quality. They are hazardous for human health, for example they can cause respiratory problems.



« The GLOBE Program

Består av:

[Aerosols in Europe](#)

[The Tree Ring Project](#)

Er bakgrunnstoff for

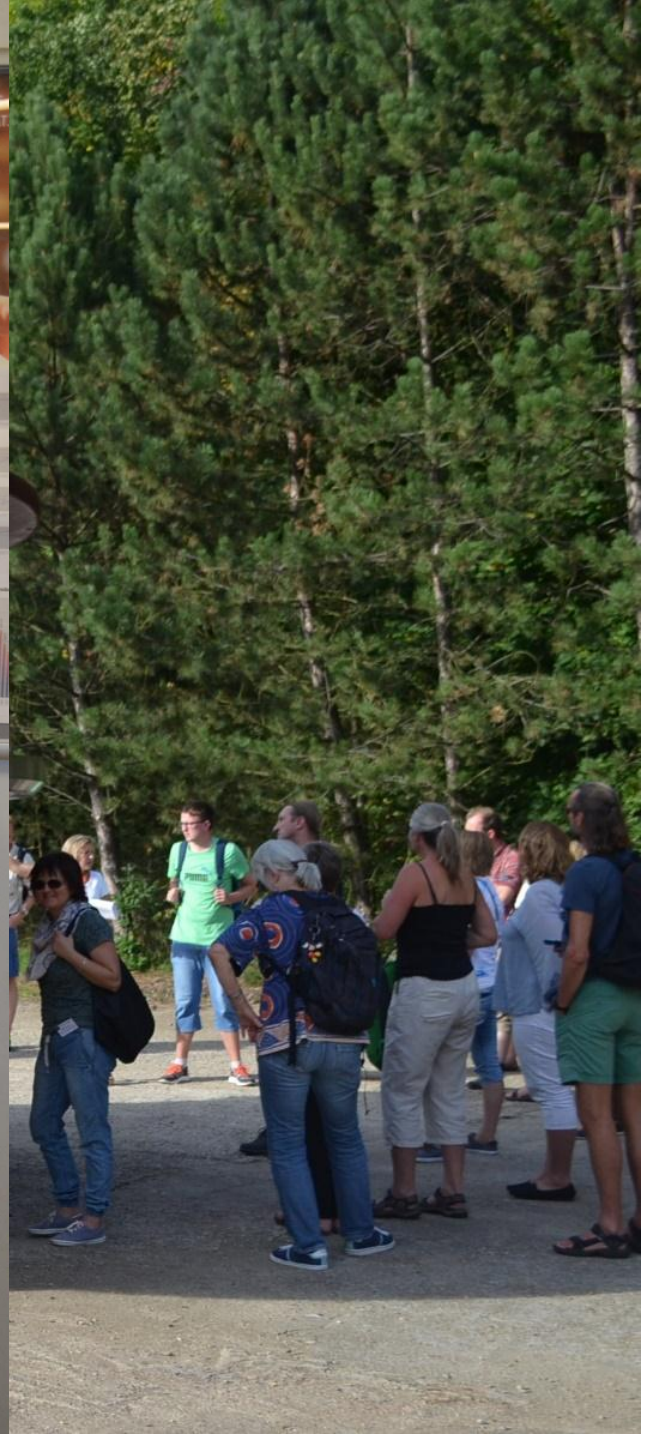
[Seminar in Oslo March 5, 2015](#)
[Workshop in Nove Mesto 2015](#)

Vedlegg

[Collaboration plans](#) [PDF](#)

Uspoređivali Stari fotometar : Novi fotometar;
Američki:Francuski; indirektnoAOTni: direktnoAOTni
;manjeSunca:višeSunca









Tempora mutantur, a aerosoli?

Zanima nas mijenja li se sastav aerosola unutar jednog dana?

Mijenja li se sastav aerosola sezonski?

Da li se unutar jednog dana mijenjaju vrijednosti AOT-a s brzinom i smjerom vjetra kako bismo vidjeli ima li veze dolaze li čestice sa Sljemenske ili s gradske strane te mijenja li im se veličina.

Zanima nas ovisi li količina aerosola o geografskom položaju mjerne postaje stoga ćemo u suradnji s francuskom školom partnerom u projektu usporediti rezultate mjerenja.

Obzirom da su aerosoli čestice koje utječu na ljudsko zdravlje, usporedit ćemo vrijednosti izmjerenih aerosola na gradskim postajama s podacima iz Klinike za plućne bolesti Jordanovac. Očekujemo da će u danima kada su povišene vrijednosti aerosola broj primljenih pacijenata biti veći.

3. ORGANIZACIJA/AKTIVNOSTI/ SURADNJA

Istovrsna mjerenja na više postaja



– [Aerosoli nova postaja](#)

Latitude 45.8164, Longitude 15.8972, Elevation 128m

Atmosphere

Aerosols ★

New observation Past observations

Integrated 1-Day ★

New observation Past observations

Surface Ozone ★

New observation Past observations

Air Temperature 1-Day ★

New observation Past observations

Multi-Day Soil And Air Temperatures ★

New observation Past observations

Water Vapor ★

New observation Past observations

Clouds 1-Day ★

New observation Past observations

Multi-Day Soil And Soil Temperatures ★

New observation Past observations

– [Vrapce 02:ATM-02](#)

Latitude 45.8162, Longitude 15.8974, Elevation 128m

Atmosphere

Aerosols ★

New observation Past observations

Integrated 1-Day ★

New observation Past observations

Surface Ozone ★

New observation Past observations

Air Temperature 1-Day ★

New observation Past observations

Multi-Day Soil And Air Temperatures ★

New observation Past observations

Water Vapor ★

New observation Past observations

Clouds 1-Day ★

New observation Past observations

Multi-Day Soil And Soil Temperatures ★

New observation Past observations







Kako privući nove GLOBE-ovce?







	7,30		MATEMATIKA	E/NJ	POVIJEST	INFORM.	LATINSKI										
	8,20		GEOG.L	E/NJ	MATEMATIKA	INFORM.	LATINSKI										
	9,10	POVIJEST	HRVATSKI Č.	MATEMATIKA	KOM.VJ.M.	ENGL	KOM.VJ.S.										
	10,15	GEOG.L	HRVATSKI Č.	SRO	KOM.VJ.M	LATINSKI	E/NJ	KNJIŽNICA									
U T O R A K	11,05	ENGL	INFOR	HRVATSKI Č.	BIOLOGIJA	LATINSKI	KOM.VJ.S.										
	11,55	GLOBE	INFOR	PRVA POMOĆ		SRO Š.	ETIKA U S.F.		SPECI.NJ.M	HIGIJENA							
	12,45					PSIHOLOG	MIKRA Š.	ETIKA U S.F.	FARMA	SPECI.NJ.M	HIGIJENA						
	13,35						TZK M.13 h.		MIKRA Š.	ETIKA U S.F.	BIOKEMIJA	SPECI.NJ.M	FARMA	BOL.DJ.V			
	14,25						TZK		ETIKA U S.F.	BIOKEMIJA	MIKRA .S.	SPECI.NJ.M	BOL.DJ.V	FARMA			
	15,30								BIOKEMIJA	ANATOMIJA		HITNI DR S.			ZD.NJ.MA.A	NJ.U KUĆI V.	DIJET.M
	16,20														DIJET.M	PSIH.NJ.T	ZD.NJ.M.A
	17,10														MZO LV	ZD.NJ.MA.A	PSIH.NJ.T
	18,00														PSIHI.NJ.LV	MZO T	DIJET.M
	18,50														DIJET.M	SRO	MZO LV

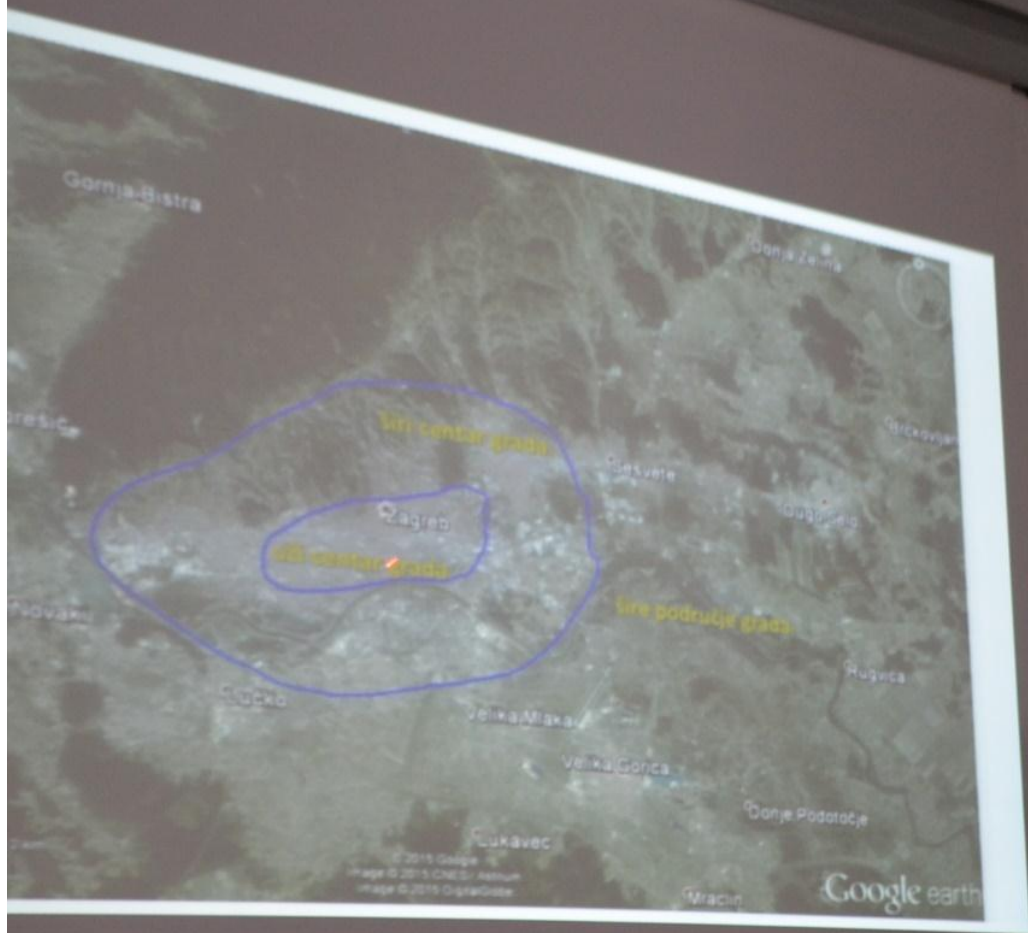
GLOBE-ovci u akciji sakupljanja starog papira





PROMOCIJA GLOBE PROGRAMA U ŠKOLI





PROMOCIJA GLOBE PROGRAMA IZVAN ŠKOLE



„Dedek”

Toni Murphy :

”Directly from Zagreb, Croatia – School for Nurses Vrapce, GLOBE team, celebrating **Earth Day** went to visit the oldest tree in the town park, called Grandpa, 500 years old.

Students gathered around him like generations before.

And nearby is the grandson tree, we took a moment with him, too.

It was a really good moment, generations of diferent species reunion
(students and teachers, too!!!)

Globe Newsletter, April, 2015.



Globe Škola Vrapče

(GlobeProgram)

Update Info

View Activity Log



Timeline

About

Friends 2

Photos

More ▾

GLOBE-SMOGOVCI



GLOBE program - Škola za medicinske sestre Vrapče

added an event.

10 March at 14:49 · 🌐








30
MAR

Međuzupanijska GLOBE smotra 2016

Wed 17:15 - Škola za medicinske sestre Vrapče...

★ Interested

ISTRAŽIVANJE: UTJECAJ RASVJETE NA KVALITETU SNA

 By Boris Štromar  May 31, 2015  2 comments  Analize  analiza, mjerenje, umjetna rasvjeta i zdravlje ljudi, zdravlje

Nedavno smo dobili rezultate vrlo zanimljivog istraživanja koje je provela **Škola za medicinske sestre Vrapče** u sklopu programa GLOBE. Učenici su pratili vidljivost zvijezda (izaženu u magnitudama) te usporedili sa kvalitetom sna. U mjerenju vidljivosti zvijezda sudjelovalo je ukupno 109 učenika kroz dvije školske godine. U posljednja četiri ciklusa promatranja vidljivosti zvijezda 77 učenika pratilo je i kvalitetu sna. Učenici su bili podijeljeni u zone užeg i šireg centra grada te periferije. mjerenja srednjih magnituda očekivano su pokazala najmanju vidljivost zvijezda u užem centru grada te veću vidljivost na širem području.

<http://www.ekorasvjeta.net/analize/istrazivanje-utjecaj-rasvjete-na-kvalitetu-sna/>

4. SURADNJA

DODATNE
AKTIVNOSTI

PROMIDŽBA



20 THE GLOBE PROGRAM

20th Anniversary · 1995 – 2015



20 THE GLOBE PROGRAM

20th Anniversary · 1995 - 2015



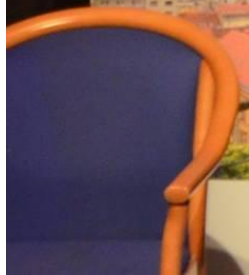
ΠΑΙΔΟΓΛΟΒΕΙΑ (*Pedo-GLOBE-ia*) *ili* GLOBE- odgajanje

Ira Beck, prof. mentor i Marinela Labaš, prof. mentor, 13. studenoga 2015., AZOO, Zagreb

MINISTARSTVO ZNANOSTI, OBRAZOVANJA I SPORTA
MINISTARSTVO ZNANOSTI, OBRAZOVANJA I SPORTA
MINISTARSTVO ZNANOSTI, OBRAZOVANJA I SPORTA
MINISTARSTVO ZNANOSTI, OBRAZOVANJA I SPORTA
MINISTARSTVO ZNANOSTI, OBRAZOVANJA I SPORTA



KULTURA
TURIZMA



Zagreb



KULTURA

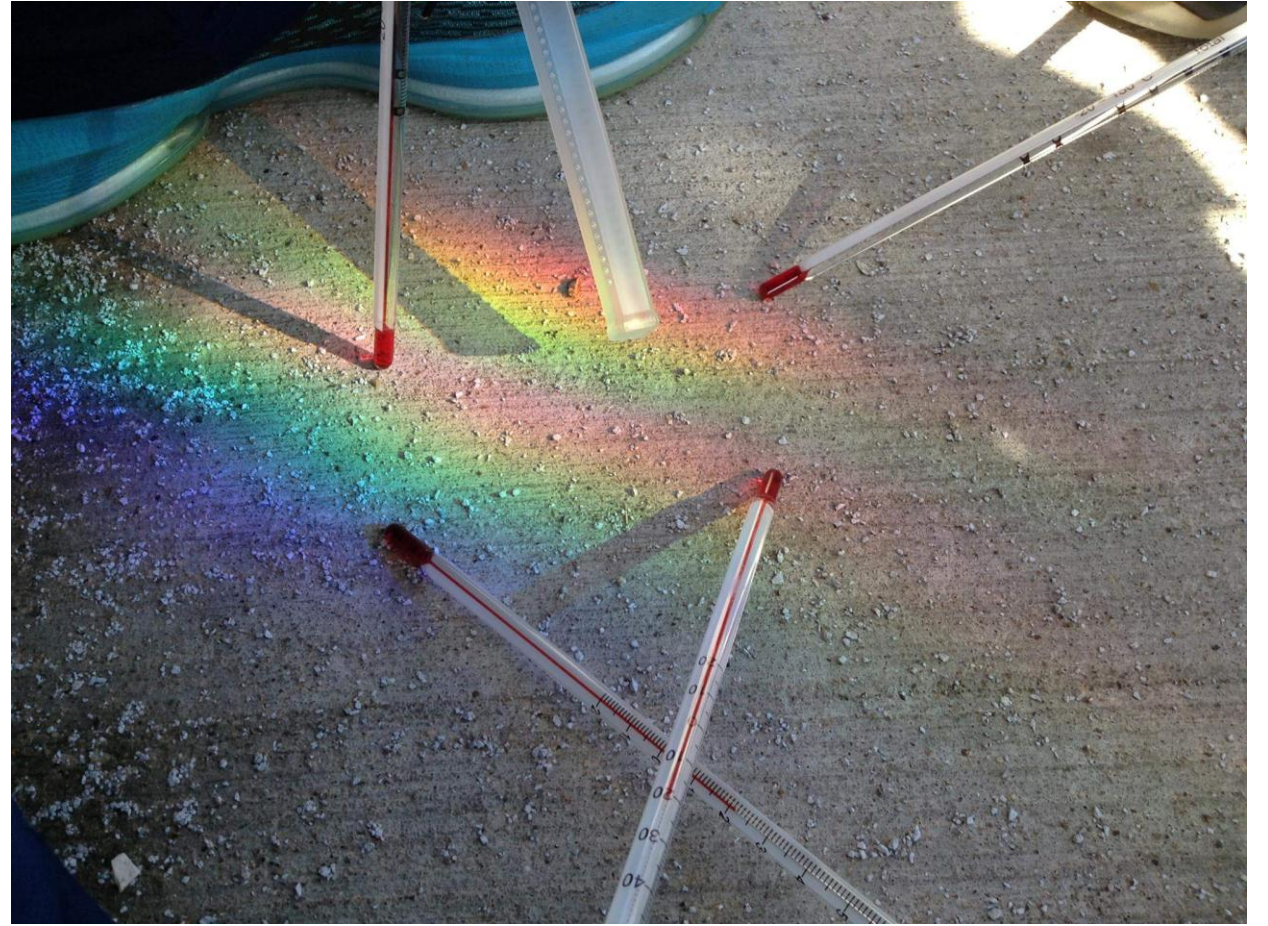


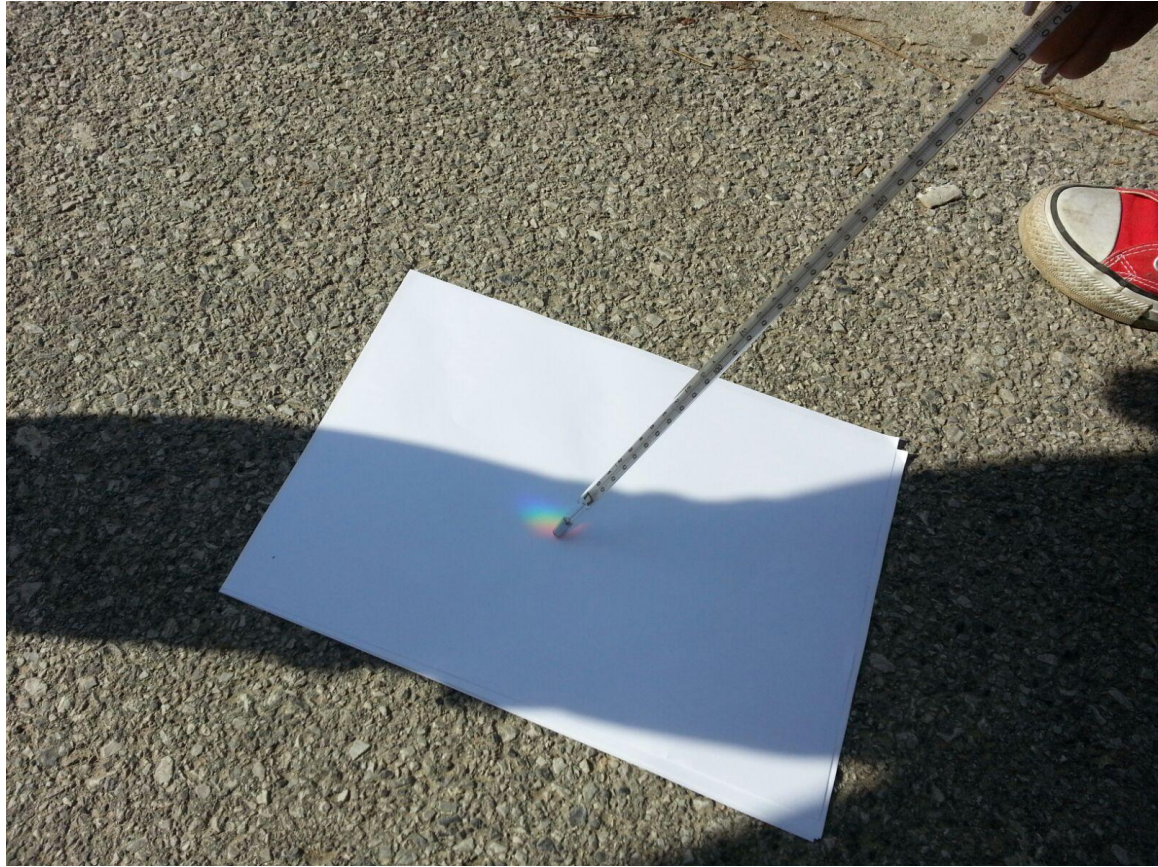
DISNEY CALIFORNIA ADVENTURE



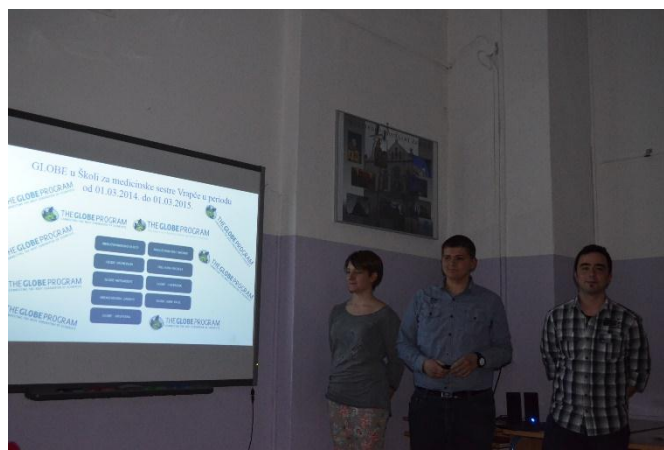
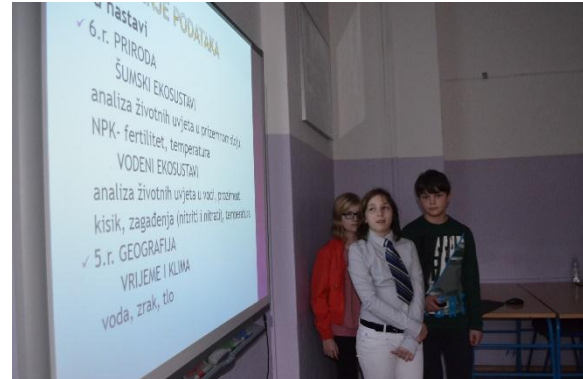
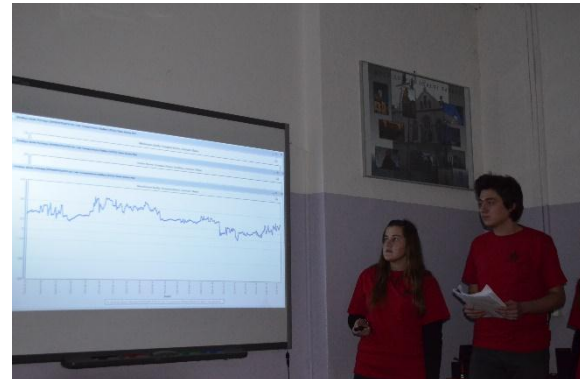


Thirkell at 7724 14th Street, Detroit, Michigan, US





ORGANIZACIJA I DOMAĆINSTVO VII MŽ GLOBE SMOTRE





Do GLOBE > For Students > Student Research Reports

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Student Research Reports

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Light pollution and our sleep

Organization: Skola Za Medicinske Sestre Vrapce

Student(s): Renato Vranekovic, Karlo Loznjak, Philip Carek, Ana Selak

Grade Level: Secondary (9-12)

GLOBE Teacher:

Contributors: Jelka Skoton,prof., Ira Beck,prof., Marinela Labas,prof.

Date Submitted: 05/15/2015



View Research Report

First we wanted to find out if there is any causal connection between light pollution and disrupted sleep, common signs of fatigue or sleeping disorder. We also wanted to see if the intense of that pollution is stronger in center of the city than in wider area, and if perhaps air humidity affects the visibility of the night sky. We assumed that the light pollution is stronger in center than in wider area, that is inversely proportional to the amount of air humidity and that it



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GLOBE tim ostvario je vrlo uspješnu suradnju s američkom YLACES organizacijom (<http://www.ylaces.org/>) te dobio CALITOO fotometar za novi projekt "Aerosols in Europe"

Thank you Mr. Dixon Butler!

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2016-03-20

School: Lycée de la mer

Site: Salle de navigation:ATM-01

Measurements Data Counts School Info Site Info Photos

Atmosphere

Aerosols (84)

- Aerosol Optical Thickness
- Percent Transmission

Data Date Range: 2015-02-10 to 2016-03-15

Date	Aerosol Optical Thickness
2015-02-19	0.05
2015-03-04	0.10
2015-03-11	0.35
2015-03-18	0.15
2015-03-25	1.35
2015-04-01	1.40
2015-04-08	0.10
2015-04-15	0.05
2015-04-22	0.05
2015-04-29	0.05
2015-05-06	0.05
2015-05-13	0.05
2015-05-20	0.05
2015-05-27	0.05
2015-06-03	0.05
2015-06-10	0.05
2015-06-17	0.05
2015-06-24	0.05
2015-07-01	0.05
2015-07-08	0.05
2015-07-15	0.05
2015-07-22	0.05
2015-07-29	0.05
2015-08-05	0.05
2015-08-12	0.05
2015-08-19	0.05
2015-08-26	0.05
2015-09-02	0.05
2015-09-09	0.05
2015-09-16	0.05
2015-09-23	0.05
2015-09-30	0.05
2015-10-07	0.05
2015-10-14	0.05
2015-10-21	0.05
2015-10-28	0.05
2015-11-04	0.05
2015-11-11	0.05
2015-11-18	0.05
2015-11-25	0.05
2015-12-02	0.05
2015-12-09	0.05
2015-12-16	0.05
2015-12-23	0.05
2015-12-30	0.05
2016-01-06	0.05
2016-01-13	0.05
2016-01-20	0.05
2016-01-27	0.05
2016-02-03	0.05
2016-02-10	0.05
2016-02-17	0.05
2016-02-24	0.05
2016-03-01	0.05
2016-03-08	0.05
2016-03-15	0.05

2015-2-19 2016-3-20 Plot X

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Škola za
medicinske
sestre
Vrapče



