

iGeo



14thInternational Geography Olympiad

FIELDWORK EXERCISE 1

General instruction and notes

Student number

1	4		

IGEO-2017 FIELDWORK DAY1 GUIDANCE

Before you start the Fieldwork Exercise, please read the following notes carefully and follow the instructions. Fieldwork Exercise 1 consists of three parts – A, B and C. Parts A and B should be completed on the route, moving from the Stop 1 (**S1**) to the Stop 2 (**S2**) and Stop 3 (**S3**). Part C will be completed at Stop 4 (**S4**). The route and all stops are located in the Košutnjak Park of Belgrade (see map).

During Fieldwork Exercise 1 you also need to make some general observations, which are important for tomorrow's Fieldwork Exercise 2. For notes, use the General Notes sheet when you visit the Stops. Keep this sheet with you at all times, and hand it in to the Jury ONLY at the last Stop (finishing point) of your route. Tomorrow you will get it back before Fieldwork Exercise 2.

All tasks are individual, and you are expected not to consult each other. However, you will move within the area in groups of 26—27 students, each guided by 2 volunteers. Do not attempt to change groups. Remain with your group, follow your volunteers and keep the same speed as them. Obey instructions of volunteers and Jury members all the time. If you have any sort of emergency, please tell volunteers.

Start points:

- **Groups I—III** start from S1. Total time for route S1—S2 is **1 hour**, S2—S3 also **1 hour**. After S3 groups I—III will head to S4, where they spend **15 minutes**.
- **Groups IV—VI** start from S4, where they spend **15 minutes**, and then head to S1—S2—S3
- All the groups will start with an interval of 15 20 minutes.

Finish points:

- S4 for groups I—III,
- S3 for groups IV—VI.

At each of the stops S1, S2 and S4 you will receive response sheets with handouts, and have **5 minutes** before start completing the task to write down your personal number on the front sheet and read the task.

There are two **meeting points M** between S1, S3 and S4, where all the groups arrive, wait for their turn, and from where they will be guided by volunteers to their starting, or finishing points. At all stops you can get drinking water. Toilets are near **meeting points**.

Please note that mobile phones, tablets or other means of communication are strictly prohibited during fieldwork. All violations of this rule will result in a penalty.

Take care at all times in the field; stay away from dangerous slopes.

Good luck!



Write down your notes on the composition (species) and condition of vegetation of Quercus petraea cerris the Košutnjak park area. These notes will not be assessed, but you will use them (Turkey or Austrian oak) tomorrow, to complete the FWE-2. On the right, you can see list of trees, common (natural) for Košutnjak area. Use it as a reference. Carpinus betulus moesicum (European or common hornbeam) Tilia tomentosa (Silver linden) Acer platanoides (Norway maple) Fagus moesiaca (Balkan Beech)



iGeo



14th International Geography Olympiad

FIELDWORK EXERCISE 1

Task 1A

Student number

Belgrade, 2017

DURATION 60 MINUTES. TOTAL 7 MARKS

Walk from the start point S1 near the Golf restaurant to the Stop S2 at the Amphitheater on the eastern part of Pioneer City.

On your way, identify all of the following features, located within the zone, circled on Map 1A by a **RED LINE**:

- open air sports facilities,
- children playgrounds,
- buildings.

On Map 1A, identify and label with numbers the features which are already mapped. You will also see features which are not indicated on the map. Draw and label those features on the map, ensuring you label each with a number. Use only a **pen** (blue, black, or other color, if needed)!

Write down the numbers of all these features in the table on the response sheet and provide the following data for them:

- For all open air features, including sports facilities, report the purpose of use and estimate the maximum number of users (players, watchers, visitors) at noon (12:00) on a weekend summer sunny day¹.
- For buildings, report the condition (quality; see example below).

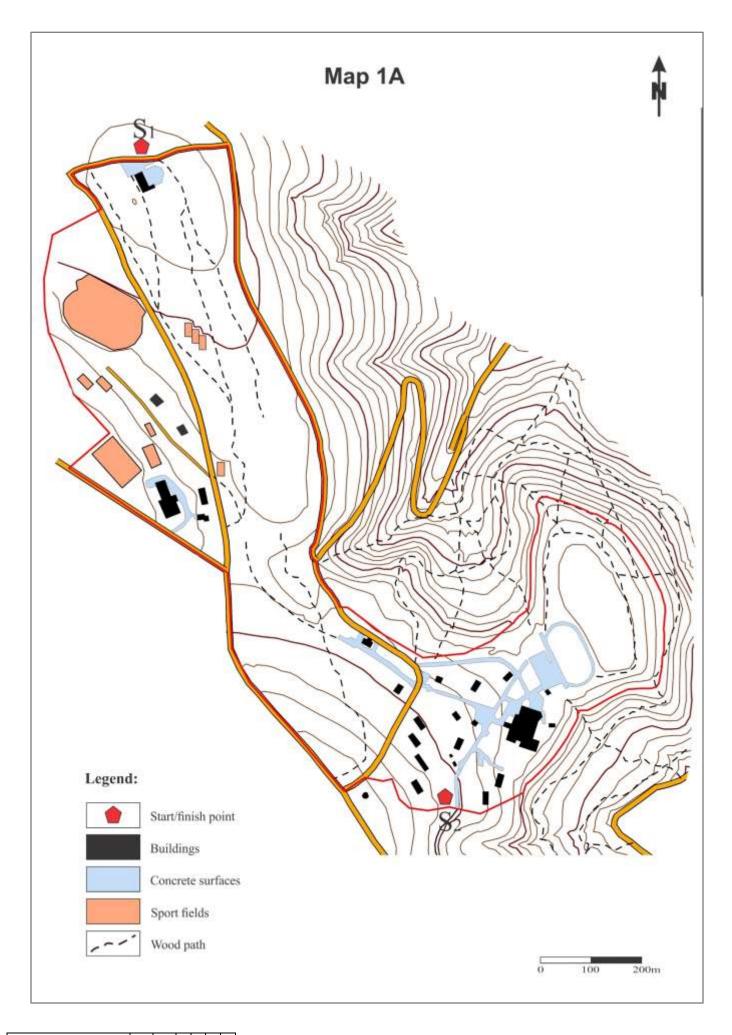
Building condition (quality) assessment – 4 classes maximum:

- A totally ruined, need to be rebuilt;
- B very poor, need to be completely repaired;
- C average, serious restoration needed;
- D good, no or minor repairs needed.

At the Stop S2 you will have **10 minutes** to complete Map 1A and Response sheet before handing them in to the Jury.

Do not forget to write your student number on the cover sheet, map and the response sheet!

¹Assume that tennis is played in pairs (2 x 2), and there are 11 players in each football (soccer) team, 6 players in each volleyball team, and 5 players in basketball team (e.g. 10 players per game).



Student number	1	4				
----------------	---	---	--	--	--	--

Task 1A RESPONSE SHEET

Object Nº	Purpose of use, e.g. kind of sports	Condition/quality, A—D (buildings only)	Capacity of open air facilities, user numbers
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
	Tot	tal users capacity at 12:00	
			<u>l</u>

Student number	1	4				
----------------	---	---	--	--	--	--







14th International Geography Olympiad

FIELDWORK EXERCISE 1

Task 1B

Student number

1 4	,		
-----	---	--	--

Belgrade, 2017

DURATION 60 MINUTES. TOTAL 7 MARKS

Walk from Stop S2 at the Amphitheater on the eastern part of Pioneer City to Stop S3.

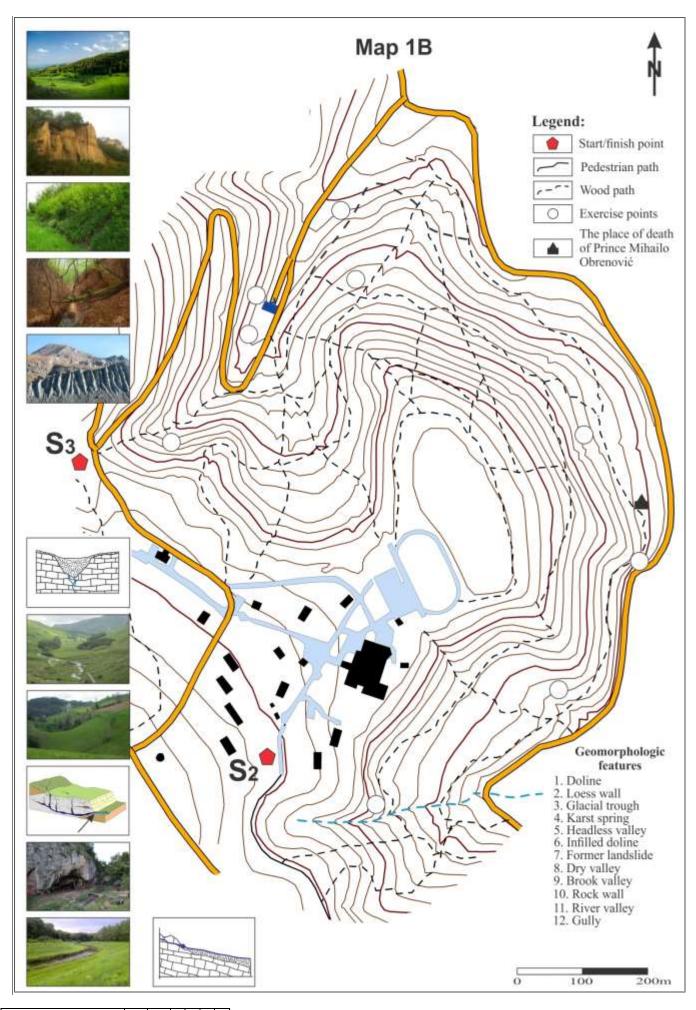
On your way, identify the **geomorphologic features**, located at the nine places marked by **WHITE CIRCLES** (Exercise Points) on Map 1B. Label each white circle with a number, corresponding to one of the geomorphologic features from the list, found on the same sheet. Use the small pictures to the left of the map as a reference for feature names. Bear in mind, that the pictures are not in random order.

Some features may be seen on your route twice, and that there are some pictures of features that you will not see in Košutnjak Park.

On the route, you can use pencil to make notes. Use pen to label the white circles with numbers before you hand in the map to the Jury.

At the Stop S3 you will have **10 minutes** to answer the questions, written on the Response sheet 1B. Then hand in your Map 1B and Response sheet 1B to the Jury.

Do not forget to write **your student number** on the cover sheet, map and response sheet.



Task 1B RESPONSE SHEET

1B.1.Analyzethe geological profile from Košutnjak hill to Zemun (**Figure 1**). Identify which rock types from the list below, form layers annotated with capital letters on the profile. Write your answers in the **table 1**. (1 m)

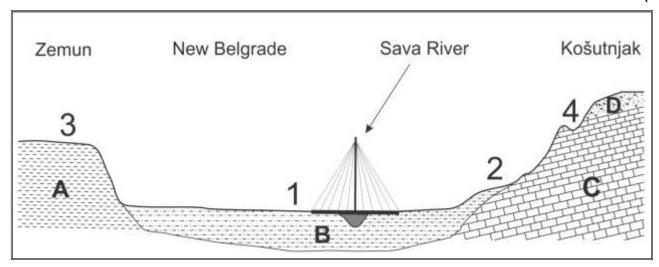


Figure 1.

Rock types:

- Andesitic and dacitic tuff
- Loess
- Claystones
- Bedded and thick bedded limestones
- Clays, sands and gravels (Panonian)
- Dacito-andesite and latite
- Sands and clays
- Diabase and spilite

Table 1.

Letter on Fig. 1	Rock type	
A.		
В.		
C.		
D.		

1B.2.Select from the list (below) the kinds of relief surfaces that correspond to the numbers on the profile, and enter their numbers in **Table 2**. Arrange them in descending order of age (from oldest to the most recent one). (1 m)

Relief surfaces list: the surface of fluvial denudation, loess plain, river terrace, volcanic plateau, river floodplain, karst surface, plain of marine accumulation, the bottom of the tectonic plate.

Table 2.

Number (from Fig. 1)	Relief surfaces

Student number	1	4		

1B.3. In which area marked by a **RED SQUARE** on the map (**figure 2**), you can most probably find geomorphologic features, similar to those typical for the Košutnjak park? Provide your answer with the geographic coordinates of the approximate centre of this box, to the closest whole degree (no minutes or seconds). What is the coomon name of this type of relief (terrain)?

(1	m	١

Coordinates:

Type of relief, or terrain (common name):

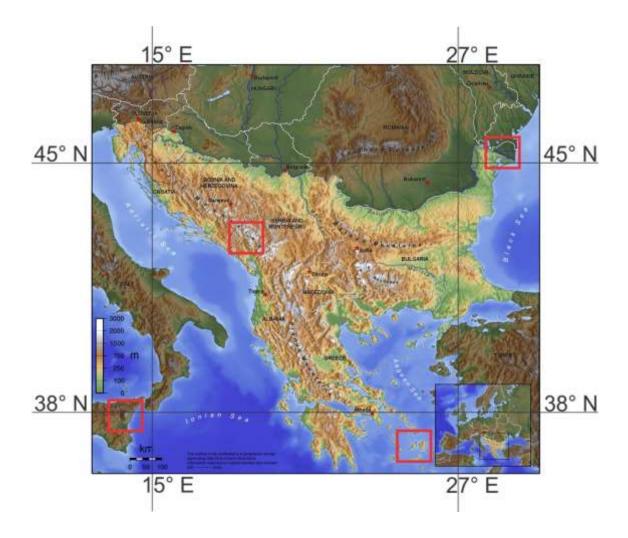


Figure 2.

Student number	1	4				
----------------	---	---	--	--	--	--



iGeo



14th International Geography Olympiad

FIELDWORK EXERCISE 1

Task 1C

Student number

1	4				
---	---	--	--	--	--

Belgrade, 2017

DURATION 15 MINUTES. TOTAL 6 MARKS

You are now at the Stop S4. Use your position as an observation point over Belgrade. Remember this panoramic view for tomorrow's exercise (FWE-2). Complete the following tasks.

C1. Winter sports are gaining popularity in Belgrade. Using the data from the Košutnjak meteorological station (44°46′N 20°25′E; altitude 230 m), suggest which months will be able to support skiing season here.

(1 m)

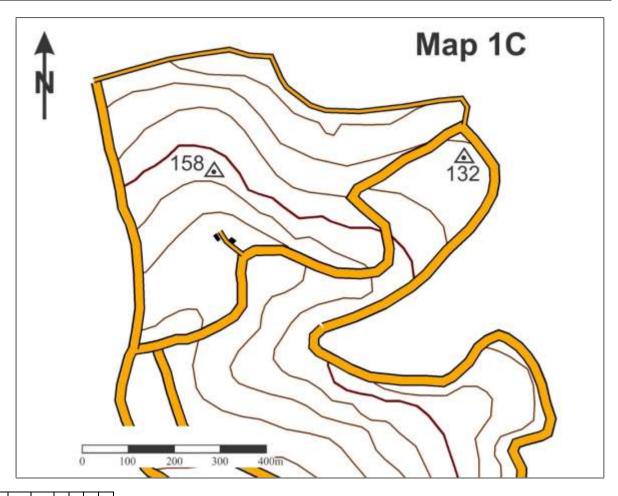
Average/month						Мо	nths					
Average/month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Precipitation, mm	48	45	45	53	69	84	68	45	49	38	54	65
T°C	1.1	3.0	7.3	12.7	17.3	20.3	22.3	22.5	18.2	13.1	7.3	2.3

Months:

C2. You are standing near the upper point of a mountain ski run. Using Map 1C, calculate the inclination of this slope (degree, or percent). (2 m)

Place for calculations. Please show all of your work

Answer: Slope inclination — ______(please, indicate the unit – degree, or percent)



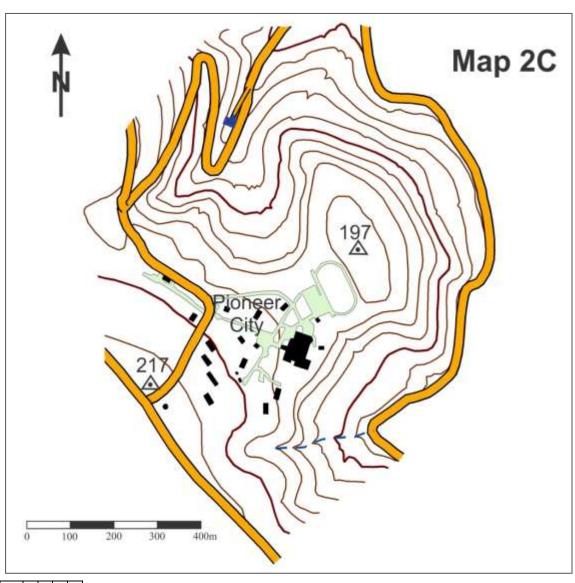
Student number	1	4		

C3. Imagine, that you are asked to plan an open-air ice skating rink to be placed at the Pioneer City close to the running pad. Assuming that the rink is a circle with a diameter of 75 m, find an appropriate place for this rink on Map 2C, and encircle it with a pen. As the skating rink should be flat, with no relative elevation, estimate the volume of ground to be removed. Take in consideration, that the place you have chosen requires minimal effort for make it flat.

(3m)

Place for calculations. Please show all of your work

Answer: Volume of ground to be removed _____ cubic meters (m³)



Student number	1	4				
----------------	---	---	--	--	--	--



iGeo



14th International Geography Olympiad

FIELDWORK EXERCISE 2

SUSTAINABLE DEVELOPMENT OF YOUTH TOURISM AT KOŠUTNJAK PARK OF BELGRADE, SERBIA

Student number

1	4		

INSTRUCTIONS

All tasks must be completed individually, using the answer templates provided. The Resource Booklet contains important supporting materials: tables with statistical data, maps, etc.

Time management:

You have **10 minutes** to read the tasks and Resource Booklet. No writing during this time.

Students with English as the language of instruction then have **2 hours** to complete the test.

All other students have 2 hours and 20 minutes.

Write your answers in pen.

You may use colored pencils/pens for map work.

You may refer to material in the Resource Booklet in your answers, and you may use material included in earlier answers to the FWE-1 you have provided.

Total marks for FWE-2: 20

lace for calculations		
	Municipality	Potential number of visitors 15—25 years old in 2017
1.	Municipality	visitors 15—25 years old
1. 2. 3.	Municipality	visitors 15—25 years old
	Municipality	visitors 15—25 years old

Student number 1 4

II. Transportation and Accessibility

II.1. Examine the current (present day) public transport scheme of Belgrade (**Map 6** of the Resource booklet. Which municipality highlighted on Map 5 has the easiest (fastest) connection with Pioneer City? Which municipality has the most complicated (slowest) connection with the Košutnjak Park?

(2 m)

Fas	stest connection	Sid	west connection
Municipality	Justification (public transport lines configuration and length)	Municipality	Justification (public transport lines configuration and length)
•		•	A to B (Map 4). Provide positive opment of tourism in Košutnjal (2 m)
where you were only kinds of tra	yesterday), with the exit from nsport, which are already used d. Name this kind of public tra	the proposed tu d for passengers	ant at Košutnjak Park (Stop S4 nnel (B on Map 4). Be realistic in the other cities of the world nate the length of its route fron (1 m)
Length of line _	m per 1 4 		

III. Human Impact (Anthropogenic Pressure)

III.1. On the Map Template 1,

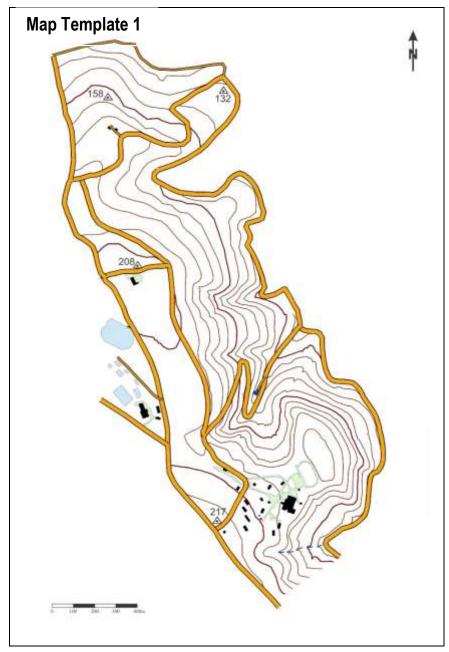
- Divide the territory of the Košutnjak Park into no more than 5 zones based on the degree of human impact (anthropogenic pressure). For this, summarize your observations, made during FWE-1, and use data from the Resource Booklet and maps.
- In the legend (key), write brief annotations for the characteristics of each zone. For this, you need to provide a title that refers to the main activities within this zone, and/or to its geographical location.
- Briefly describe the zones and the criteria behind their allocation.

(5 m)

- **III.2.** Which of the zones you have identified is characterized by the highest degree of human impact (anthropogenic pressure) on its territory?
 - Provide a quantitative indicator to measure human impact (anthropogenic pressure), and estimate its average value for this zone.

(1 m)

Zone with the highest degree of anthropogenic pressure:	(No from Legend)
Indicator (variable):	
Units of measurement:	
Average value for this zone:	
Student number 1 4	



Legend

Zone number and brief annotation	Description and principles (criteria) behind your allocation
l	
II	

IV. Potential and limitations for sustainable development of youth tourism at Košutnjak Park
IV.1. Using the Resource Booklet materials and your field observations from yesterday, think about kinds of youth tourism that could be practiced here. Provide answers to the following questions in the boxes, with brief explanation of reasons for each of them. (4m)
A. Which one of the already existing activities would you recommend to support and develop as a preference?
Answer
B. Which one of the already existing activities would you recommend to limit?
Answer
C Which are completely new activity (never or year) receive practiced here before) would you recommend
C. Which one completely new activity (never or very rarely practiced here before) would you recommend for development? Briefly describe it, informing title of activity, length of route, appropriate season of the year, and other important characteristics.
Answer

Student number 1 4

IV.2. Imagine, that you are designing a plan for sustainable development of youth tourism in Košutnjak Park. Link ideas for your plan to different scales (levels). For each scale, indicate the main advantages/potentials, and main limitations/constraints. (3 m)

Scale (level)	Advantages	Limitations/constraints
Micro / Local (nearby districts)		
Mezo / National (Belgrade and Serbia)		
Macro / Regional (all Europe)		

Student number	1	4		

	Mark (of 4):



iGeo



14thInternational Geography Olympiad

RESOURCE BOOKLET

POTENTIALS AND LIMITATIONS OF SUSTAINABLE DEVELOPMENT OF YOUTH TOURISM AT KOŠUTNJAK PARK

TABLE OF CONTENTS

page	
3	Introduction
4	Map of green areas and agricultural land in Belgrade
4	Map of units of cultural-historic area "Topčider"
5	Cultural-historic area "Topčider" and Košutnjak forest
5	Natural monuments at Košutnjak forest area
6	Cultural monuments at Košutnjak forest area
7	Map of protected natural and cultural heritage at Košutnjak forest
8	Pionirski grad (Pioneer City)
9	Map of the planned tunnel and of municipalities bordering Kosutnjak Park
10	Map of public transport in Belgrade
11	Demographic data for four Belgrade municipalities
11	References

Introduction to Sustainable and Youth Tourism

Sustainable tourism can be defined as:

"Tourism that takes full account of its current and future economic, social and environmental impacts, addressing the needs of visitors, the industry, the environment and host communities"

Sustainable tourism should:

- 1) Make optimal use of environmental resources that constitute a key element in tourism development, maintaining essential ecological processes and helping to conserve natural heritage and biodiversity.
- 2) Respect the socio-cultural authenticity of host communities, conserve their built and living cultural heritage and traditional values, and contribute to inter-cultural understanding and tolerance.
- 3) Ensure viable, long-term economic operations, providing socio-economic benefits to all stakeholders that are fairly distributed, including stable employment and income-earning opportunities and social services to host communities, and contributing to poverty alleviation.

Youth tourism is a new, fast growing sector in the tourism industry (Khosphpakyants & Vidishcheva, 2010). Youth tourism in a nutshell is young travelers having preference for budget accommodation, emphasis on meeting other travelers, independently organized, flexible travel schedule and longer rather than brief holidays (Haigh, 1995).

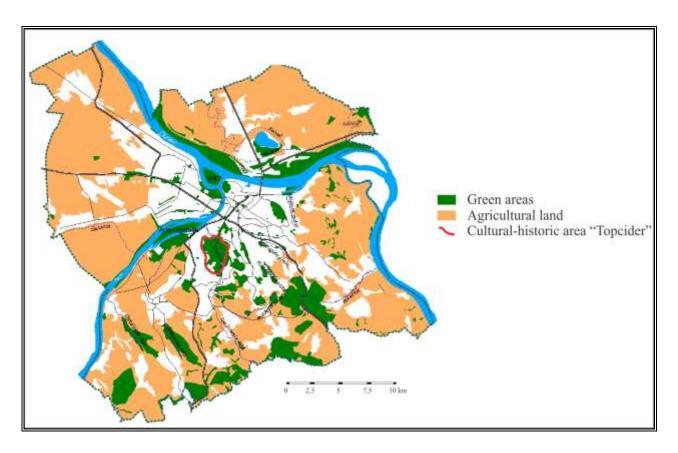
Youth tourism can be seen through modern initiatives including (but not limited to); travel, backpacking, youth hostels, working holiday programs, education, student flights, cultural exchange, backpacker transport, au pair, adventure tours, volunteering, sports events, internships, student travel insurance, youth travel agents, tourism boards, internet cafes, language courses, student identity cards and student exchange (WYSET, 2009).

Studies show youth tourists travel for *purpose*. Whether to experience a different culture learn a language, volunteer, work or study (Khosphpakyants & Vidischeva, 2010). They are keen to experience the local lifestyle and meet other people (Maoz 2006). In fact, youth tourism heavily promotes opportunities to socialize with fellow travelers (Obenouretal et al., 2004). The majority of youth tourists travel on a strict budget, sourcing cheap accommodation enabling them to have a relatively long duration journey and spend their money on a wide range of activities such as nature, culture and adventure (Maoz, 2006). Interestingly enough, youth tourism spends more money than those in other tourism sectors as they spend 4 times longer travelling than the average visitor (WYSET, 2009). Furthermore, youth tourists value their flexible itineraries. They report the most memorable travel experiences are often those that are unexpected, and the finest discoveries are those they make themselves (Clarke 2004).

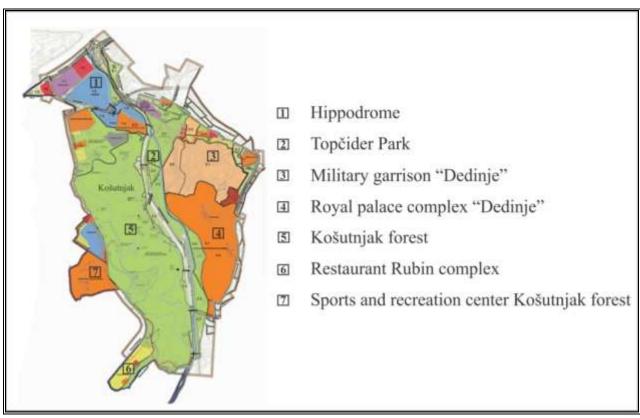
Return home open-eyed, open-minded, grown-up, laid-back, chilled-out, easy-going, a little more serious and achieve self-development through travel (Clarke, 2004).



Sport events - one way of youth tourism (Košutnjak, 2012).



Map 1 – Green areas and agricultural land in Belgrade.



Map 2 – Units of cultural-historic area "Topčider".

Cultural-historic area "Topčider" and Košutnjak forest

"Topčider" is an important Belgrade area, both in terms of its culture and history and in terms of its natural features. This is the largest area covered by greenery in the urban part of Belgrade (Map 1). The cultural-historic area "Topčider" consists of several smaller units (Map 2), with the Natural Monument "Košutnjak" as the largest one. Other significant units, in addition to Košutnjak, include the racecourse – The Hippodrome, Military Garrison "Dedinje", Topčider Park with the House Museum of Prince Miloš Obrenović and the Royal Palace Complex of the Karadjordjević family.

Košutnjak is the remaining part of the forest belt that used to surround old Belgrade. At that time, Belgrade was located on Terazije Hill, above the confluence of the Sava and the Danube rivers. Until 1903, Košutnjak was the hunting grounds of the royal family and their guests. It was enclosed and hinds (female deer) were kept there, so this fact might account for the origin of the name Košutnjak (hind is *košuta* in Serbian). Since 1903, Košutnjak has been open to the public and has become a city picnic area.



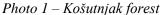




Photo 2 – Plane tree-lined path in Košutnjak For.

The first regulation plan of Košutnjak was made in 1911. The paths were made then which led from the railway station Topčider to the top where a large "Sokolska" Meadow was (*Sokoli* means falkons – a Serbian word for scouts). The first golf course used to be here in the eve of the Second World War.

In April 2014, Košutnjak Forest was declared as a protected area. This natural resource is a natural monument. Today, Košutnjak Forest is under the authority of "Srbijašume" – State Enterprise for Forest Management, Forest Estate "Beograd".

Natural monuments in Košutnjak forest area

There are 521 plant species at Košutnjak. As there are 3730 plant species in Serbia, this number depicts the high floral diversity of Košutnjak, which is in the third position among the greenery complexes in the territory of Belgrade according to the number of plant species (There are nearly 650 plant species at Avala Mountain and nearly 600 at Kosmaj Mountain).

The presence of protected species is evident in such floral diversity. There are 48 protected species at Košutnjak. Ten species are strictly protected (as they are considered as extremely rare and endangered in Serbia and it is therefore prohibited to destroy and endanger both them and their habitats) and other 38 species are protected species.

Since 1981, The Common Oak and Hornbeam Forest at Hajdučka fountain in Košutnjak has been protected as a nature reserve. Total protected area amounts to 3.48 ha. Under the specific microclimate and edaphic conditions, at an altitude of 130-165 m, a forest of common oak, hornbeam and Turkey oak with linden has formed (*Carpino-Querctum roboris tilietosum*). As it is located in the vicinity of the popular picnic area Hajdučka fountain, it is constantly endangered by humans.

There are several facilities of geological heritage within the protected park-forest Košutnjak. Those are open geological profiles (Map 3) near the Mint and the monument to Prince Mihailo (Photo 3). These profiles include the abandoned quarry partly covered by lower cretaceous reef limestones. Their presence indicates paleo conditions of sedimentation in shallow warm seas, which existed in part of the area of the current Serbia at the end of the Mesozoic.



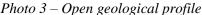




Photo 4 – Hajdučka česma (fountain)

The protected natural and historic resources also include Hajdučka fountain (Photo 4), refurbished karst spring at the foothills of Košutnjak. This is the best-known fountain at Košutnjak and it is frequently visited and famous for good quality water. It has often been related to St. George's Day - Djurdjevdan and May Day picnics. The spring was turned into a fountain most probably in the period of Prince Milos and Prince Mihailo, when Košutnjak became the royal hunting grounds.

Culture monuments in Košutnjak forest area

In addition to Hajdučka fountain, there are several more protected areas of cultural heritage in Košutnjak forest area (Map 3). They are:

The place of death of Prince Mihailo Obrenović

On 29 May 1868, Serbian Prince Mihailo M. Obrenović was killed in an ambush during his afternoon walk. Today, the iron fence on the plateau of granite pillars bordered by a wrought iron chain (set in 1912), marks the place of his death (Photo 5).



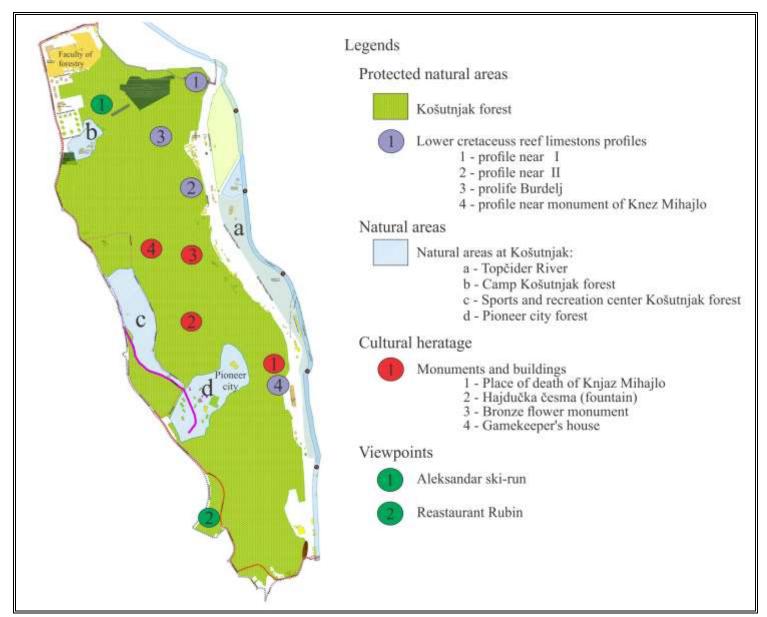
Photo 5 – The place of death of Prince Mihailo

Memorial bronze flower

Memorial bronze flower is near the restaurant Košuta and it was made in 1970 to mark the site of a bloody confrontation between gendarmes and students on 8 September 1940.

Gamekeeper's house

The gamekeeper's house was built in the middle of 19th century next to the game reserve. In 1891, the first District Forest Management of Serbia started to work in this house. That is the only building in the forest. It was often used as a film location, and some of those Yugoslav films have become iconic.



Map 3 – Protected natural and cultural heritage features at Košutnjak forest.

Pionirski grad (Pioneer City)



Ever since the 19th century, there has been a sanatorium on the slopes of Košutnjak, where children came to recover and improve their general health. Away from the city, with a thick forest, and the effects of a climatic health resort, Košutnjak provided ideal conditions for recovery and refreshment of the body. A lot of rich people therefore built their holiday homes in the foothills of Košutnjak. After the Second World War the Pioneer City was built by young volunteers in 1947.

Besides the central building which covers 5000 square metres, there are other premises (classrooms, a discoteque, an amphitheatre with 400 seats, sports halls etc.) for educational, recreational, entertainment and cultural purposes, as well as the restaurant with 400 seats. The centre also has pavilions for accommodation (see photos below).



Pionirski grad some years ago (Children playground).

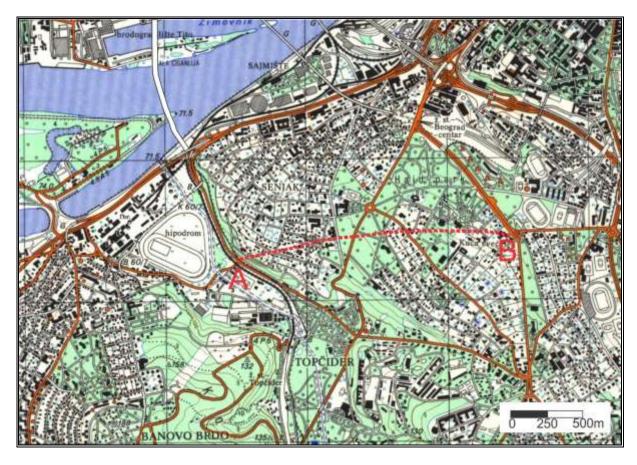


Pionirski grad at present day (Renovated pavilions).

This specific natural environment includes free activity areas (climbing frames, swings...) as well as the grounds for five-a-side football, handball, basketball, volleyball, a running track (800 m), athletics track, circular asphalt path and glades for playing.

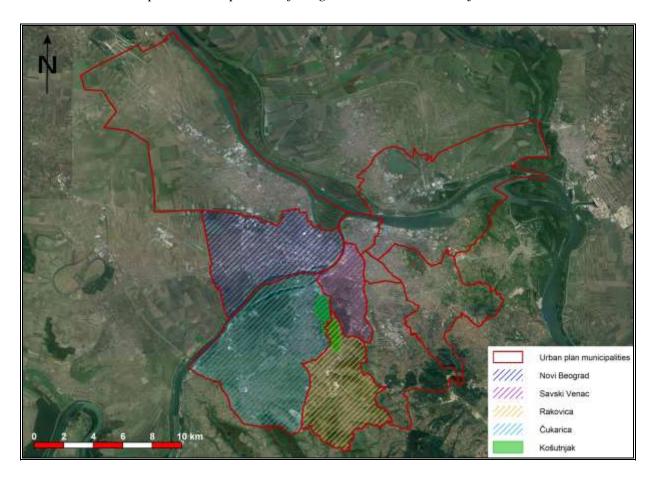
It is the member of the International Youth Hostel Federation (IYHF).

Since the establishment of the Pioneer city there have always been construction and development plans, but they have not been entirely fulfilled.

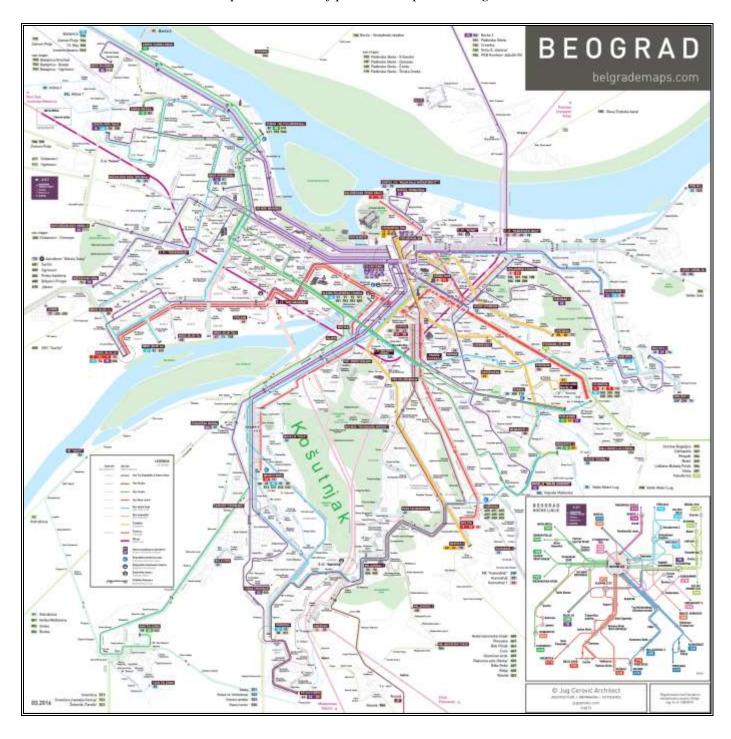


Map 4 – Planned tunnel beneath the Topčider Hill.

Map 5 – Municipalities of Belgrade closest to Košutnjak Park.



Map 6 – Scheme of public transport in Belgrade.



Municipal.		total	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
Novi Beograd	total	214506	10203	9189	8447	9615	11762	16175	17860	16558	13956	13201	14354	18250	16842	9707	10640	9026	5539	3182
	male	99477	5271	4704	4296	4930	5910	7707	8582	7830	6762	6036	6390	8050	7299	4144	4436	3694	1974	1462
	female	115029	4932	4485	4151	4685	5852	8468	9278	8728	7194	7165	7964	10200	9543	5563	6204	5332	3565	1720
Rakovica	total	108641	5501	5190	4936	5447	5908	7771	8859	8647	8178	7361	6803	7814	7582	5338	5919	4421	2061	905
	male	51267	2808	2649	2575	2791	2905	3805	4190	4205	3917	3578	3168	3509	3072	2242	2613	2023	865	352
	female	57374	2693	2541	2361	2656	3003	3966	4669	4442	4261	3783	3635	4305	4510	3096	3306	2398	1196	553
	total	39122	1726	1494	1384	1838	2295	3033	3000	2538	2280	2332	2796	3694	3523	1702	1734	1472	1305	976
Savski Venac	male	17868	891	771	660	956	1148	1466	1430	1217	1027	1039	1249	1626	1585	790	702	526	437	348
	female	21254	835	723	724	882	1147	1567	1570	1321	1253	1293	1547	2068	1938	912	1032	946	868	628
Čukarica	total	181231	9100	8701	8576	9384	10702	13901	14710	13826	12570	11885	12471	14435	13064	7739	8247	6754	3610	1556
	male	85903	4732	4461	4358	4800	5418	6735	7025	6713	6098	5644	5655	6564	5762	3368	3581	2907	1477	605
	female	95328	4368	4240	4218	4584	5284	7166	7685	7113	6472	6241	6816	7871	7302	4371	4666	3847	2133	951

Table 1 – Demographic data for four Belgrade municipalities (2012 Census).

References:

Clarke, N (2004). Free independent travelers? British working holiday makers in Australia. *Transaction of the Institute of British Geographers*, vol. 29, no. 4, pp. 499-509.

Khoshpakyants, A & Vidischcheva, E. (2010). Challenges of youth tourism. European researcher, no.1, pp. 101-103.

Maoz, D (2006). Backpackers Motivations: the role of culture and nationality. *Annals of Tourism Research*, vol. 34, no. 1, pp. 122-140.

Milanović, H., ed. (2008). **Zaštićena prirodna dobra Beograda - Zapis 2008**. *Grad Beograd - Gradska uprava - Sekretarijat za zaštitu životne sredine, Zavod za zaštitu prirode Srbije*, Beograd, str. 1-120.

Obenour, W., Patterson, M., Pedersen, P. & Pearson, L. (2004). **Conceptualization of a meaning-based research approach for tourism service experiences**. *Tourism Management*, vol. 27, pp. 34-41.

Haigh, R. (1995). Backpackers in Australia. Bureau of Tourism Research, Canberra.

World youth student and education travel (2009), Youth travel facts, travel presentation, 12 February 2017, http://www.wysetc.org/