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ПРЕДИЗВИЦИ ВО ТУРИЗМОТ И БИЗНИС ЛОГИСТИКАТА ВО 218H BEK

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GOCE DELCEV UNIVERSITY OF STIP FACULTY OF TOURISM AND BUSINESS LOGISTICS

BOOK OF ABSTRACTS

THE 2ND INTERNATIONAL SCIENTIFIC

CHALLENGES OF TOURISM AND BUSINESS LOGISTICS IN THE 21ST CENTURY

> Stip, September 13th, 2019 North Macedonia

Publisher:

Faculty of Tourism and Business logistics Goce Delcev University of Stip "Krste Misirkov" no.10-A P.O. Box 201 Stip 2000, North Macedonia Tel: +389 32 550 350 www.ftbl.ugd.edu.mk www.ugd.edu.mk

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CIP - Каталогизација во публикација

Национална и универзитетска библиотека Св. "Климент Охридски", Скопје

338.48(062)(048.3)

INTERNATIONAL scientific conference "Challenges of tourism and business logistics in the 21st century, ISCTBL (1; 2019; Stip)

Book of abstract / Second international scientific conference "Challenges of tourism and business logistics in 21st century, ISCTBL, 2019, Stip, Republic of North Macedonia, September 13, 2019. - Goce Delcev University of Stip, Faculty of tourism and business logistics, 2019. - 45 crp.; 25 cm

Фусноти кон текстот

ISBN 978-608-244-440-6

а) Туризам - Собири - Апстракти COBISS.MK-ID 104519178

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IN THE 21ST CENTURY

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RURAL SETTLEMENTS IN THE BASIN OF THE BLACK RIVER AND THEIR KNOWLEDGE FOR TOURISM DEVELOPMENT IN THE REPUBLIC OF NORTHERN MACEDONIA

Cane Koteski¹

Abstract

The purpose of the research of the scientific work is to present the rural settlements and their altitude in municipalities in the river Crna Reka and their importance for the development of tourism. The drainage area of Crna Reka is a spatial area that extends into two states in the southwestern part of the Republic of Northern Macedonia and the northern part of the Republic of Greece, whose boundaries naturally are clearly defined. The drainage area of Crna Reka in the Republic of Northern Macedonia extends between 40° 51'56 "and 41° 36'20" northern latitude and 20° 56'45 "and 22° 4'58" eastern latitude. The total length of Crna Reka is 207 km2, with a total area of the catchment area (in both countries) of 5,774.99 km2, of which the Republic of Northern Macedonia belongs to the largest part of 4,869.72 km2, while the Republic of Greece belongs to 905,27 km2. In the scientific paper, 335 village settlements are processed in 13 municipalities in the Crna Reka basin in the Republic of Northern Macedonia and another 50 villages settlement and the city of Lerin, located in the neighboring Republic of Greece. To see how spatial and which village settlements are located in the Black River basin in both countries. The methods of questioning, conversation, cartographic methods, information methods, spreadsheets, etc. were used, the results obtained from the research indicate that there are favorable conditions for tourism development¹.

Key Words: river basin, settlements, altitude, tourism.

JEL: Z32

Introduction

In the Black River Basin, there are 335 villages and three towns belonging to 13 municipalities in the Republic of Northern Macedonia and 50 villages and plus the city of Florina in the neighboring Republic of Greece. To see the spatial distribution of rural settlements in the Crna Reka basin will be presented by municipalities according to their municipality and altitude (Koteski, 2011, pp. 178-194).

The rural settlements differ from the cities according to their physiognomy or type, size, population, have different construction and urban design, after the occupation of the population where the main activity is agriculture and the modest beginnings for the development of rural tourism in the villages of infrastructure facilities.

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Village settlements and their altitude in the Black River Basin in the Republic of Northern Macedonia

The height distribution of rural settlements is a very important element in the study of settlements, especially for road infrastructure, the size of arable land, urbanization of rural settlements, migrations and other characteristics. To see the distribution of the villages according to the altitude of the Black River Basin in the Republic of Macedonia, their categorization was done in the villages from: 0 - 600, 600 - 700, 700 - 900 and above 900 m, elevation (Koteski, 2011, pp. 203-209). Field surveys for 50 villages in the neighboring Republic of Greece have not been implemented due to the bad political relations in that period of the Republic of Northern Macedonia and the Republic of Greece.

Table 1: Overview of the villages located from 0-600, 600-700, 700-900 and above 900m, altitude in the Crna River Basin by municipalities and settlements in the Republic of Northern Macedonia.

Municipality		Municipality		Municipality		Municipality	
and settlements	0-600	and	600-	and	700- 900	and	Over 900
Municippality	meters above	settlements Municippality	700 meters	settlements Municippality	meters	settlements Municippality	meters
Bitola	sea	Bitola	above	Bitola	above	Bitola	above
	level		sea		sea		sea
			level		level		level
Gorno Egri	585m	Baresani	690m	Bratindol	830m	Gopes	1,140m
Dolno Egri	572m	Bistrica	630m	Brusnik	860m	Drevenik	1,200m
Dolno Orizari	577m	Velusina	695m	Bukovo	720m	Zlokukani	980m
Dragarino	590m	Gabalevci	660m	Dihovo	830m	Magarevo	1,040m
Zabeni	585m	Gorno Orizari	605m	Dolenci	790m	Maloviste	1,140m
Karamani	574m	Graesnica		Gavato	860m	Nizepole	1,030m
Kravari	587m	Dragozani	680m	Kazani	880m	Oblakovo	1,100m
Kremenica	588m	Dragos	620m	Kisava	860m	Ostrec	970m
Logovardi	578m	Kanino	680m	Krstoar	700m	Rotino	920m
Novo Zmirnovo	595m	Krklino	670m	Lavci	760m	Sviniste	1,200m
Opticari	550	Kukurecani	670m	Lera	750m	Snegovo	1,100m
Poesevo	578m	Lazec	680m	Lopatica	780m	Trnovo	960m
Porodin	578m	Lisolaj	660m	Megitlija	820m	Capari	1,010m
Sredno Egri	600m	Oleveni	700m	Metimir	820m		
Trn	576m	Sekirani	650m	Orehovo	720m	27	
Crnobuki	573m	Crnovec	665m	Ramna	820m 780m	Municipali	
	600m		650m	Rastani Srpci	900m	Gradsko there villages in this	
				Staro	850m	Municipality	
				Zmirnovo		Hisar	
		Punicipality G	radsko	Strezevo	740m	Bazernik	950m
		Podles	640m			Boiste	910m
		Poules	040111			Brezovo	940m
Municipality of G	radsko	Municipality Demir		Municipality of		Velmevci	950m
there are no villag	es in	Hisar		Gradsko there are no		Golemo Ilino	980m
this group				villages in this group		Zasle	1.000
		Barakovo	620m	Municipality De	emir	Leskovo	1,220m
		Belce	650m	Hisar		Malo Ilino	1,000m 910m
The municipality		Vardino	660m	Babino	750m	Radovo	910m 1010m
Demir Hisar has n		Graiste	610m	Virovo	840m	Cerovo	970m
villages in this gro	up	Edinakovci	670m	Dolenci	700m		9/0111
Municipality Dolneni		Zvan Zurce	690m 700m	Zeleznec	730m		
Zapolzani	600m	Zurce Zagorice	674m	Kociste	730m 760m	The municipa	lity of
1 *		Kutretino	650m	Mrenoga	,	Dolneni has no	
		Novoselo	670m	Obednik Rastoica	750m 720m	in this gro	
Municipality Drugovo		Pribilci	670m	Sveta	720m 710m	Municipality I	
does not have villa		Rakitnica	690m	Sloestica	770m 770m	Golemo Crsko	1,000m
from this group		Tukitiiou	070111	Siocstica	/ / / / / / / /	GOICHIO CISKO	1,000111

M: -:1:4 IZ		C1- 4	(25	C:1	000	Mala Caslas	
Municipality K		Sladuevo Slepce	635m 680m	Smilevo Strugovo	880m 710m	Malo Crsko Cer	980m
Begniste	400m	Sopotnica	670m	Suvo Grlo	720m	CCI	1,010m
Brusani	280m	Suvodol	670m	Suvo Grio	/20111		1,010111
Vozarci	160m	Utovo	690m			Municipality K	avadarci
Dabniste	420m	Cioro	070111				
Dobrotino	600m					Rozden	920m
Drenovo	330m					The municip	ality of
Kosani	500m					Krivogastani	has no
Mrezicko	500m					villages in thi	s group
Raec	300m			Municipality 1	Dolneni	Municipality 1	Krusevo
Resava	330m			Gorno Selo	750m	Birino	970m
Faris	415m		L	Gostirazni	740m	Pusta Reka	970m 940m
Sivec	180m	Municipality 1	Dolneni	Drenovci	740m	Selce	940m
		Belopole	610m	Zrze	770m 720m	Seice	920m
		Brailovo	660m	Lazani	780m	Municipality o	f Mogila
		Vrance	603m	Malo	715m	has no village	
		Dabjani	605m	Mramorani	/13111	group	
Municipality K	rivogostoni	Debreste	680m	Margari	760m	Municipality	
Municipanty K	iivogastani	Desovo	680m	Strovija	700m	Winnerpanty	Novaci
		Dolgaec	700m	Suovija	/20111	Grumazi	1,090m
Borotino	590m	Dolneni	622m			Iveni	940m
Vrbjani	548m	Dupjacani	660m	Municipality I	l Irugovo	Polog	940m
Kruseani	597m	Zabiani	630m	does not have		Sovic	1,080m
Obrsani	589m	Zitose	630m	from this g			
Pasino Ruvci	585m	Zabrcani	660m	Municipality K		Municipality	Prilan
Slavei	600m	Kostinci	620m				
· ··· · · · · · · · · · · · · · · · ·		Kosino	690m	Bojanciste Galiste	900m	Zivovo	920m
		Kutlesevo	660m	Klinovo	740m 770m	Krstec Pletvar	1,080m 990m
		Lokveni	625m			Pietvar Polciste	
The municip	ality of	Nebregovo	700m	Kumanicevo	900m		910m
Krusevo has no		Novoselani	620m	Majden	780m	Prisad	940m
this gro		Pestalevo	610m	The municipality	tv of		
tills gr	up	Rilevo	660m	Krivogastani ha		The municip	ality of
		Ropotovo	610m	villages in this group		Rosoman has n	
		Sarandinovo	610m	, mages in ems group		in this gro	0
Municipalit	Mogila	Sekirci	620m	Municipality Krusevo		Municipality of	
Municipant	Mogna	Senokos	623m	Municipanty Krusevo			
		Slepce	700m			has no village	
		Slivje	625m	Belusino	880m	group	
~		Sredorek	602m		800m		
Budakovo	525m	Crniliste	662m	Gorno Divjaci	800m		
Vasarejca	584m	Cililiste	002111	Dolno Divjaci Jakrenovo	860m		
Gorna Carlija	583m			Norovo	800m		
Dedebalci	592m			Ostrilci	730m		
Dobrusevo	594m			Ostriici	785m		
Dolna Carlija	582m				860m		
Loznani	600m				800m		
Mogila	582m						
Nospal	588m			Municipality	Mogila		
Radobor	531m			Mojno	710m		
Trap	573m			Municipaliti 1			
				winnerpailti	TOVACI		
Municipalit	Novaci	1		Armatus	840m		
Biljanik	580m	1		Brnik	740m		
Gneotino	577m	Municipality of	<u> </u>	Brod	740m		
GornoAglarci	590m	Drugovo does n		Budimirci	800m		
	592m	villages from th		Gnilez	840m		
Dalbegovci		villages II vill til	15 gi oup	Gradesnica	800m		
Dalbegovci Dobroveni		of villages					1
Dobroveni	580m	of villages	ovodoza:	Grunista	800m		
Dobroveni Dobromiri	580m 575m	Municipality K					
Dobroveni Dobromiri DolnoAglarci	580m 575m 582m	Municipality K Garnikovo	680m	Grunista Dolno Orehovo	800m 720m		
Dobroveni Dobromiri DolnoAglarci Novaci	580m 575m 582m 576m	Municipality K Garnikovo Grbovec	680m 670m	Dolno Orehovo			
Dobroveni Dobromiri DolnoAglarci Novaci Ribarci	580m 575m 582m 576m 540m	Municipality K Garnikovo Grbovec Dradnja	680m 670m 610m	Dolno Orehovo Zivojno	720m		
Dobroveni Dobromiri DolnoAglarci Novaci	580m 575m 582m 576m	Municipality K Garnikovo Grbovec Dradnja Dragozel	680m 670m 610m 610m	Dolno Orehovo	720m 710m		
Dobroveni Dobromiri DolnoAglarci Novaci Ribarci	580m 575m 582m 576m 540m	Municipality K Garnikovo Grbovec Dradnja Dragozel Kesendre	680m 670m 610m 610m 670m	Dolno Orehovo Zivojno Meglenci	720m 710m 740m		
Dobroveni Dobromiri DolnoAglarci Novaci Ribarci	580m 575m 582m 576m 540m	Municipality K Garnikovo Grbovec Dradnja Dragozel Kesendre Pravednik	680m 670m 610m 610m 670m 650m	Dolno Orehovo Zivojno Meglenci Orle Paralovo	720m 710m 740m 830m 820m		
Dobroveni Dobromiri DolnoAglarci Novaci Ribarci	580m 575m 582m 576m 540m	Municipality K Garnikovo Grbovec Dradnja Dragozel Kesendre	680m 670m 610m 610m 670m	Dolno Orehovo Zivojno Meglenci Orle	720m 710m 740m 830m		
Dobroveni Dobromiri DolnoAglarci Novaci Ribarci Skocivir	580m 575m 582m 576m 540m 600m	Municipality K Garnikovo Grbovec Dradnja Dragozel Kesendre Pravednik Seskovo	680m 670m 610m 610m 670m 650m 620m	Dolno Orehovo Zivojno Meglenci Orle Paralovo Petalino Staravina	720m 710m 740m 830m 820m 800m		
Dobroveni Dobromiri DolnoAglarci Novaci Ribarci	580m 575m 582m 576m 540m 600m	Municipality K Garnikovo Grbovec Dradnja Dragozel Kesendre Pravednik Seskovo Municipa	680m 670m 610m 610m 670m 650m 620m	Dolno Orehovo Zivojno Meglenci Orle Paralovo Petalino	720m 710m 740m 830m 820m 800m 850m		
Dobroveni Dobromiri Dolno Aglarci Novaci Ribarci Skocivir	580m 575m 582m 576m 540m 600m	Municipality K Garnikovo Grbovec Dradnja Dragozel Kesendre Pravednik Seskovo Municipa Krivogast	680m 670m 610m 610m 670m 650m 620m	Dolno Orehovo Zivojno Meglenci Orle Paralovo Petalino Staravina	720m 710m 740m 830m 820m 800m 850m		
Dobroveni Dobromiri Dolno Aglarci Novaci Ribarci Skocivir Municipalit	580m 575m 582m 576m 540m 600m	Municipality K Garnikovo Grbovec Dradnja Dragozel Kesendre Pravednik Seskovo Municipa Krivogast Bela Crkva	680m 670m 610m 610m 670m 650m 620m	Dolno Orehovo Zivojno Meglenci Orle Paralovo Petalino Staravina	720m 710m 740m 830m 820m 800m 850m		
Dobroveni Dobromiri DolnoAglarci Novaci Ribarci Skocivir Municipalit Gugakovo Dren	580m 575m 582m 576m 540m 600m y Prilep 580m 570m	Municipality K Garnikovo Grbovec Dradnja Dragozel Kesendre Pravednik Seskovo Municipa Krivogast Bela Crkva	680m 670m 610m 610m 670m 650m 620m	Dolno Orehovo Zivojno Meglenci Orle Paralovo Petalino Staravina	720m 710m 740m 830m 820m 800m 850m		
Dobroveni Dobromiri DolnoAglarci Novaci Ribarci Skocivir Municipalit Gugakovo Dren Erekovci	580m 575m 582m 576m 540m 600m y Prilep 580m 570m 600m	Municipality K Garnikovo Grbovec Dradnja Dragozel Kesendre Pravednik Seskovo Municipa Krivogast Bela Crkva Vogani Godivje	680m 670m 610m 610m 670m 650m 620m lity ani 603m 650m	Dolno Orehovo Zivojno Meglenci Orle Paralovo Petalino Staravina Tepavci	720m 710m 740m 830m 820m 800m 850m 750m		
Dobroveni Dobromiri Dolno Aglarci Novaci Ribarci Skocivir Municipalit Gugakovo Dren	580m 575m 582m 576m 540m 600m y Prilep 580m 570m	Municipality K Garnikovo Grbovec Dradnja Dragozel Kesendre Pravednik Seskovo Municipa Krivogast Bela Crkva	680m 670m 610m 610m 670m 650m 620m	Dolno Orehovo Zivojno Meglenci Orle Paralovo Petalino Staravina	720m 710m 740m 830m 820m 800m 850m 750m		

Podmol Topolcani	600m	Mirce Acev		Belovodica	800m	
	600m		609m	Besiste	900m	
Trojaci	600m	Municipality k	Krusevo	Varos	830m	
Trojkrsti	600m	Aldanci	645m	Veprcani	800m	
Cepigovo	600m	Arilevo	660m	Vitoliste	830m	
		Borino	690m	Volkovo	780m	
Municipality 1	Rosoman	Bucin	607m	Vrpsko	800m	
Debriste	300m	Vrboec	640m	Kokre	720m	
Kamen Dol	260m	Milosevo	651m	Krusevica	759m	
Krusevica	280m	Presil	640m	Leniste	780m	
Manastirec	145m	Sazdevo	650m	Lopatica	750m	
Mrzen	570m	Sveto Mitrani	670m	Malo Ruvci	740m	
Oraovec	370111			Marul	780m	
Palikura	140m			Oreovec	860m	
Ribarci	150m	Municipality	Mogila	Prilepec	830m	
Rosoman	135m		604m	Selce	740m	
Sirkovo	300m	Alinci		Caniste	720m	
Trstenik	140m	Beranci	640m	Cumovo	860m	
Historik	140111	Dolno Srpci	640m	Stavica	800m	
		Ivanjevci	630m			
Municipality of	Caska has	Musinci	630m			
no villages in t		Novo Selani	610m			
no vinages in this group		Podino		The municipality of		
		Puturus		Rosoman h		
		Sveta Todori		villages in thi		
		Trnovci		Municipality of		
		Crnicani		has no village	s in this	
				group		
		Municipality 1	Vovosi			
		Baldovenci	690m	-		
		Bac	620m			
		Vele Selo	700m			
		Vranjevci	660m			
		Germijan	610m			
		Zovik 1	680m			
		Zovik 2	680m			
		Makovo	700m			
		Novo Selo	700m			
		Rapes	700m			
		Slivica	610m			
		Suvodol	650m			
		Municipality	Prilep			

Т Т			I		
	Alinci	670m			
	Berovci	628m			
	Bonce	620m			
	Veselcani	613m			
	Galicani	617m			
	Golem	620m			
	Radobil				
	Golemo	607m			
	Konjari				
	Dabnica	605m			
	Dunje	690m			
	Zagorani	612m			
	Kadino Selo	612m			
	Kalen	640m			
	Kanatlarci	620m			
	Mazuciste	660m			
	Mal Radobil	620m			
	Malo Konjari	613m			
	Manastir	015111			
	Novo Lagovo	690m			
	Pestani	640m			
	Rakle	0.0111			
	Smolani	670m			
	Staro Lagovo	700m			
	Toplica	650m			
	Carevik	685m			
	Seleverci	005111			
	Scieverer	680m			
		696m			
		635m			
		055111			
	The municipa				
	Rosoman ha				
	villages in this	group			
	Municipality	Caska			
	Popadija - 7	00m			
	r y - /				
L	l .		l	1	L

Source. ^a Panov, M. (1998). Encyclopaedia of the villages in the Republic of Macedonia, Skopje; ^b Military Geographic Institute (1972). Printing maps with scale 1: 25 000 (Gaus Kriger's projection) for the territory of the Republic of Macedonia (216 sections), Belgrade.

To see in detail the height distribution of rural settlements by municipalities and their total number of villages, especially for each category of altitude in the Black River Basin in the Republic of Northern Macedonia, we will use the data from Table 2.

Table 2: Total number of villages by municipalities according to the altitude categories in the Crna Reka Basin in the Republic of Northern Macedonia.

Municipality and	0-600m.a.s.l.	600-700m.a.s.l.	700-900m.a.s.l.	Over 900m.a.s.l.
Total villages				
Bitola 65	16	16	19	13
Gradsko 1	/	1	/	/
Demir Hisar 40	/	17	14	10
Dolneni 37	1	28	8	/
Drugovo 3	/	/	/	3
Kavadarci 25	12	7	5	1
Krivogastani 12	6	6	/	/
Krusevo 18	/	9	6	3
Mogila 23	11	11	1	/
Novaci 41	10	25	19	5
Caska 1	/	1	/	/
Total 335	76	133	87	39

Source. ^a Panov, M. (1998). Encyclopaedia of the villages in the Republic of Macedonia, Skopje; ^b Military Geographic Institute (1972). Printing maps with scale 1: 25 000 (Gaus Kriger's projection) for the territory of the Republic of Macedonia (216 sections), Belgrade; ^c The calculations are from the author.

According to the results from Table 2, we find that the largest number of villages 133 are located at an altitude of 600-700 m, in the river Crna Reka in the Republic of Northern Macedonia:

In second place are 87 villages at an altitude of 700-900m., In the Black River Basin in the Republic of Northern Macedonia;

In the third place are 76 villages at an altitude of 0-600m., In the Black River Basin in the Republic of Northern Macedonia; and

On the fourth place there are 39 villages at an altitude above 900m, in the river basin of Crna Reka in the Republic of Northern Macedonia.

The rural settlements found in groups with altitudes from 0-600 and from 600-700m., Altitude consists of 209 villages as flat plains in the river Crna Reka in the Republic of Northern Macedonia. In these villages there are favorable conditions for the development of agriculture, especially the cultivation of cereals, tobacco production, sunflower and viticulture.

In the plain part there are also good conditions for growing large livestock and producing milk in small family farms.

The rural settlements located in the groups with an altitude of 700-900 and above 900 meters above sea level make up 126 villages as a hilly mountain in the river Crna Reka in the Republic of Northern Macedonia. In these villages there are favorable conditions for development of horse-breeding, sheep breeding, forestry, herbalism and development of rural tourism. In the Crna Reka basin there is a part of the National Park Pelister and the village of Nizhpoyle where there are ski lifts, hotels and private houses for weekend tourists. In the basin of Crna Reka, the Mariovo region is quite interesting for the development of mountain and hunting tourism, which extends to the territory of three municipalities: Novaci, Prilep and Kavadarci. In the Mariovo region in the municipalities of Novaci and Prilep there are large reserves of coal. The largest Mining Energy Combine (REK) located in the Municipality of Novaci where Thermo Power Plant works and produces more than 80% of the electricity in the Republic of Northern Macedonia.

Conclusion

In the Crna River Basin in the Republic of Northern Macedonia, there are 335 village settlements.

According to the obtained data in the group of villages with altitude of 0-600m, there are 76 villages in the Crna Reka basin;

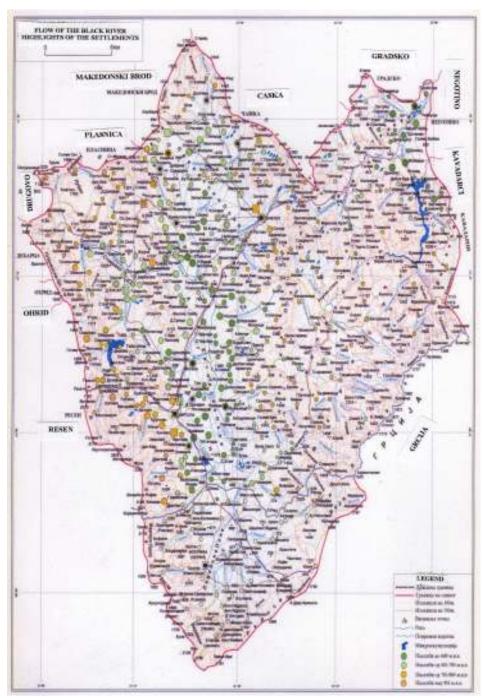
In the group of villages at an altitude of 600-700m, in the basin of Crna Reka there are the largest number of 133 villages;

In the group of villages with an altitude of 700-900m, in the basin of Crna Reka there is a second group of 87 villages; and

In the group of villages with an altitude of over 900m, in the basin of Crna Reka is the smallest group of 39 villages.

We can freely conclude that in both groups of villages with an altitude of 700-900m. and over 900m., in the Crna Reka basin in the Republic of Northern Macedonia there are good conditions for the development of rural tourism².

^{2*}**ACKNOWLEDGEMENTS:** This scientific paper was published as part of the research project "Possibilities and Perspectives for the Development of Tourism in the Black River Basin" funded by Goce Delcev University - Stip, Macedonia (Contract No. 0206-151/16, 0201-545/9 and 0307-98/77 from 01.11.2017) and the Senate Decision No. 0201-922 / 30 of 21 November 2018.



Map 1. Figure of the Crna Reka Basin in the Republic of Northern Macedonia and height distribution of the settlements.

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