

GOCE DELCHEV UNIVERSITY - STIP
FACULTY OF TOURISM AND BUSINESS LOGISTICS

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CHALLENGES OF TOURISM AND BUSINESS LOGISTICS IN THE 21ST CENTURY

STIP, 13 SEPTEMBER 2019

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ШТИП, 13 СЕПТЕМВРИ 2019



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INTERNATIONAL SCIENTIFIC CONFERENCE ON
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FACULTY OF TOURISM AND BUSINESS LOGISTICS

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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 Koteski*¹

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 km, 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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|--|------|-----------------------------|------|--|------|--|--|
| Podmol | 600m | Mirce Acev | 609m | Belovodica | 800m | | |
| Topolcani | 600m | Municipality Krusevo | | Besiste | 900m | | |
| Trojaci | 600m | Aldanci | 645m | Varos | 830m | | |
| Trojkrsti | 600m | Arilevo | 660m | Veprcani | 800m | | |
| Cepigovo | 600m | Borino | 690m | Vitoliste | 830m | | |
| Municipality Rosoman | | Bucin | 607m | Volkovo | 780m | | |
| Debriste | 300m | Vrboec | 640m | Vrpsko | 800m | | |
| Kamen Dol | 260m | Milosevo | 651m | Kokre | 720m | | |
| Krusevica | 280m | Presil | 640m | Krusevica | 759m | | |
| Manastirec | 145m | Sazdevo | 650m | Leniste | 780m | | |
| Mrzen | 570m | Sveto Mitrani | 670m | Lopatica | 750m | | |
| Oraovec | | Municipality Mogila | | Malo Ruvci | 740m | | |
| Palikura | 140m | Alinci | 604m | Marul | 780m | | |
| Ribarci | 150m | Beranci | 640m | Oreovec | 860m | | |
| Rosoman | 135m | Dolno Srpci | 640m | Prilepec | 830m | | |
| Sirkovo | 300m | Ivanjevci | 630m | Selce | 740m | | |
| Trstenik | 140m | Musinci | 630m | Caniste | 720m | | |
| Municipality of Caska has no villages in this group | | Novo Selani | 610m | Cumovo | 860m | | |
| | | Podino | | Stavica | 800m | | |
| | | Puturus | | The municipality of Rosoman has no villages in this group | | | |
| | | Sveta Tadori | | Municipality of Caska has no villages in this group | | | |
| | | Tmovci | | | | | |
| | | Crnici | | | | | |
| | | Municipality Novaci | | | | | |
| | | 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 | | | | | |

| | | | | | | | |
|--|--|--|------|--|--|--|--|
| | | 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 | | | | | |
| | | Novo Lagovo | 690m | | | | |
| | | Pestani | 640m | | | | |
| | | Rakle | | | | | |
| | | Smolani | 670m | | | | |
| | | Staro Lagovo | 700m | | | | |
| | | Toplica | 650m | | | | |
| | | Carevik | 685m | | | | |
| | | Seleverci | | | | | |
| | | | 680m | | | | |
| | | | 696m | | | | |
| | | | 635m | | | | |
| | | The municipality of Rosoman has no villages in this group | | | | | |
| | | Municipality Caska | | | | | |
| | | Popadija - 700m | | | | | |

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 Total villages | 0-600m.a.s.l. | 600-700m.a.s.l. | 700-900m.a.s.l. | Over 900m.a.s.l. |
|---------------------------------|---------------|-----------------|-----------------|------------------|
| 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.

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