

THE DISTRIBUTION OF *CHIROPTERA* IN ROMANIA AND THEIR REPRESENTATION IN THE U.T.M. SYSTEM

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The authors, using their observations and the data that exists in the specialized literature, have presented an ensemble of information about the distribution of Chiroptera in Romania. A table and three maps accompany the text in the U.T.M. system (Universal Transverse Mercator) 10.10 km.

Despite all the efforts made by several biologists, the issue of fully knowing the distribution of Chiroptera in Romania still remains unknown in all its details. One of our last paper [9], which had the ambitious to be the most comprehensive, didn't succeeded in avoiding all the shortcomings. This situation occurred mainly because the author took into account the scientific data recorded in the specialized literature from its beginnings - Bielz E.A., 1886 - until 1990. Several data were introduced only partially in the above mentioned paper because this was already in an advanced state of the editing process.

The current scientific communication, which is in fact a continuation and an addition at the already presented data contained in paper [9], became possible by using a series of information that were recorded in the literature of specialty appeared before 1990 [1-3] and mainly after 1990 [4-8]. These two studies taken together will offer us a more comprehensive picture of the actual level of knowledge we have so far in this field.

Below we present a table containing the name of the species, the place were each specie was recorded, the code and, between brakes, the year of the last appearance. The data contained in this table helped us to work out the three maps of the paper.

Table 1.

1. *Rhinolophus ferrumequinum*: Peștera ¹Canaraua Fetii, Commune Baneasa, Constanta County: NJ-58, (1993).
2. *Rhinolophus hipposideros*: Peștera Pârnova, Commune Lăpușnicel, Caraș-Severin County: EQ-98, (1968).
3. *Myotis myotis*: Peștera Grota Mare, Repedea-Iași; NN-41, (2003).
4. *Myotis blythi*: Peștera Steiul Roșu, Commune Runcu, Gorj County; FQ-69, (1980).
Anina, Caraș-Severin County; EQ-69, (1971).
Peștera Dobra, Commune Sasca Montană, Caraș-Severin County; EQ-57, (1971).
Bistreț, Dolj County; GP-06, (1980).
Slătioara, Commune Strâmtura, Maramureș County; KN-89, (1995).
Iapa, Sighetul Marmației, Maramureș County; GU-11, (1996).
Peștera Țolosu, Commune Carașova, Caraș-Severin County; ER-60, (1971)
Peștera Grota Mare, Repedea-Iași; NN-41, (2001).
Ceahlău-Avenul Mare; MM-29, (2003).
Cheile Bicazului; MM-18, (2003).
5. *Myotis daubentoni*: Peștera Grota Mare, Repedea-Iași; NN-41, (2001).
6. *Myotis capaccinii*: Peștera Țolosu, Commune Carașova, Caraș-Severin County; ER-60, (1983).
Peștera Steiul Roșu, Commune Runcu, Gorj County; FQ-69, (1980).
Pescari, Caraș-Severin County; EQ-54, (1963).
Ieșelnița, Mehedinți County; FQ-04, (1963).
7. *Myotis bechsteini*: Peștera Grota Mare, Repedea-Iași; NN-41, (2001).
8. *Myotis nattereri*: Peștera Grota Mare, Repedea-Iași; NN-41, (2001).
9. *Myotis mystacinus*: Globurău, Caraș-Severin County; FQ-08, (1967).
Peșterade la Slava, Tulcea County; PK-27, (1967).
Valea Cernei (?), Mehedinți County; FQ-37, (1970).
10. *Myotis brandti*: Peștera Gura Dobrogei (?), Constanța County; PK-12, (1993).
Malnaș, Covasna County; ML09/19, (2001).
11. *Eptesicus serotinus*: Popeni, Commune Zorleni, Vaslui County; NM-62, (1969).
Cozmești, Commune Delești, Vaslui County; NM-37, (1969).
Cipău, Commune Iernut, Mureș County; KM-84, (1968).
Deva, Hunedoara County; FR-48, (1967).
Pădurea² Segarcea, Commune Segarcea, Dolj County; GP-18, (1967).
București; MK-21/22/31/32, (1967)
Peștera Grota Mare, Repedea-Iași; NN-41, (2003).
12. *Vespertilio murinus*: Zărnești-Brașov, Brașov County; LL-64, (1969).
13. *Nyctalus noctula*: Miorcani, Commune Rădăuți-Prut, Botoșani County; MP-83, (1969).
Bârca, Dolj County; GP-17, (1982).
Pădurea Suraia, Vrancea County; NL-35, (1991).
Maliuc-Gorgova, Tulcea County; PL-60/70, (1992).
Crișan, Tulcea County; PL-80 (1992).

¹ Peștera = cave
² padure = forest

- Peștera Ponicova, Orșova, Mehedinți County; FQ-05/15, (1963).
Capul Doloșman, Tulcea County; PK-34, (1968).
14. *Nyctalus leisleri*: Zorleni, Vaslui County; NM-52, (1959).
Jurilovca, Tulcea County; PK-45, (1963).
Radovan, Dolj County; GP-09, (1982).
Bârca Dolj County; GP-17, (1982).
Suceava; MN-47, (2003).
15. *Nyctalus lasiopterus*: Socetu, Commune Stejaru, Teleorman County; LJ-39, (1980).
16. *Pipistrellus pipistrellus*: Scornicești, Olt County; LK-04, (1980).
17. *Pipistrellus nathusii*: Jurilovca, Tulcea County; PK-45, (1967).
Cipău, Commune Iernut, Mureș County; KM-84, (1968).
Sf. Gheorghe, Tulcea County; QK-07, (1968).
Chilia Veche, Tulcea County; PL-73, (1969).
Repedea-Iași; NN-41, (2001).
18. *Plecotus auritus*: Pădurea Hagieni, Hagieni, Constanța County; PJ-14, (1995).
Peștera Grota Mare, Repedea-Iași; NN-41, (2003).
19. *Plecotus austriacus*: București; MK-21/22/31/32, (1971).
Ceahlău-Avenul Mare; MM-29, (2003).

Results and debates

Analyzing the data contained in the table and the three maps we can observe:

- the number of species for which new places were indicated, compared with the mentioned paper [9], is 19, meaning over 64% from the total number of species from our fauna;
- the total number of places/localities where the above mentioned species were remarked it is 56, meaning almost 10% from the number of places mentioned in the paper [9];
- most of the places belong to the species: *Myotis blythi* (10 places) and 7 places for the species *Nyctalus noctula* and *Eptesicus serotinus*. On the next level, with 5 new places for each species enters *Pipistrellus nathusii* and *Nyctalus leisleri* and 4 places for *Myotis capaccinii*, followed closely by *Myotis mystacinus* (3 new places) and 2 places for the species: *Myotis brandti*, *Plecotus auritus* and *Plecotus austriacus*. For the rest of 9 species was pointed out only one place for each species, compared with the previously known ones.
- if we sum up the number of the places in which was pointed out the presence of the species, (the places indicated in paper [9] and this article) we realize that the record is own by the species : *Rhinolophus ferrumequinum*, *Rhinolophus hipposideros* and *Myotis myotis*; between 50 and 75 places.
- if we consider the opposite situation, meaning the species who were observed from 1 to maximum 4 places, we can name: *Hypsugo savii*, *Myotis brandti*, *Myotis dasycneme*, *Nyctalus lasiopterus*, *Eptesicus nilssoni* and *Rhinolophus mehelyi*.

We won't make further comments because despite the mentioned discoveries the reality still remains largely unknown. We foreseen in the close future the discovering of new facts about the presence and the distribution of Chiroptera in Romania.

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