

# **Agreement on the Conservation of Bats in Europe** **Update to Report on Implementation of the** **Agreement in Ukraine**

- 2000 -

## **A. GENERAL INFORMATION**

Name of Party: **Ukraine**

Date of Report: February 2001

Period Covered: February 2000 until February 2001

Competent Authority: Ministry of the Environment and Natural Resources of Ukraine

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## **B. STATUS OF BATS**

### **1. Summary details of Resident Species**

Situations similar to the last report. 24 bat species occur in the Ukraine. Of these, 6 are considered as regularly breeding species, 3 as frequent breeds, 11 as rare breeds. For 4 species (*Myotis blythii*, *Eptesicus nilssonii*, *Vespertilio murinus*, *Plecotus austriacus*) the data are insufficient. With the newly recognised *Pipistrellus pygmaeus*, the number of resident species will increase.

### **2. Status and trends**

Situations similar to the last report.

### **3. Habitat and Roost Site**

Situations similar to the last report.

### **4. Threats**

Situations similar to the last report.

### **5. Data collection**

Situations similar to the last report. In the last report the bat collection of Zoological museum of Lviv National University was not taken into account. One of the largest collections of *Miniopterus schreibersii* in Ukraine (35% of all *M.schreibersii* collections) is collected in this Museum.

The collecting of materials and replenishing of data are carried out for the creation of the Atlas of Bats of the Carpathians.

## ***C. MEASURES TAKEN TO IMPLEMENT ARTICLE III OF THE AGREEMENT***

### **6. Legal measures taken to prevent the deliberate capture, keeping or killing bats, including details of enforcement actions used to support such measures**

Situation similar to the last report.

Law of Ukraine "On All-Ukrainian Programme of Establishment of the National Ecological Network for the period 2001–2015" which foreseen an improvement of habitats for migratory animals and bats in particular.

Ukraine is also a party to the Bern Convention on the Conservation of European Wildlife and Natural Habitats and Bonn Convention. Species listed in Appendix II of the Conventions are protected (including their breeding and resting sites).

### **7. Sites identified and protected which are important to the conservation of bats**

Situations similar to the last report. The part of the sites which are known to be important for bats are included either in National Parks or in Reserves or other protected areas.

New National Park "Skolivski Beskyds" was organised last year. The caves of tectonic origin are situated on its territory. Most of these caves are located on the National Park borders or close to those borders (outside the Park). Those caves are the winter roosts for *Rhinolophus hipposideros*, *Myotis bechsteinii*, *Myotis myotis*,

*Barbastella barbastellus*. The justification for including of this area to the National Park is being prepared.

The investigations of cave bat shelters are going on in the Carpathians, Podillia, and Crimea.

#### **8. Consideration given to habitats which are important to bats**

Situations similar to the last report.

#### **9. Activities carried out to promote the awareness of the importance of the conservation of bats**

Popularisation of the idea of bat conservation in Ukraine is started actively and widely. Every year an agenda of the Theriological Schools (Annual meeting of the Ukrainian Theriological Society) includes a special session devoted to bats and their protection, as well as the event "European Bat Night in Ukraine" that includes presentation of scientific findings, slides and pictures, new editions and projects etc.

The competition of children's' pictures devoted to bats was carried out during the 3rd International Conference on Carpathian Bats. The winners were awarded with the popular scientific books about the nature.

The Rehabilitation Centre for Bats is in operation in the Kyiv Zoo. 10 bats of 4 species were kept there in captivity during this year.

The information materials on significance of bat protection, their role and importance are published in mass media on both national and local levels.

D.Sc. theses are prepared or being under preparation:

Bobkova O.: Ektoparasites of bats in Ukraine.

Godlevsky L.: Comparative analysis of bat population in urbanised and natural areas in Ukraine.

Petrushenko Ya.: Vertebrate animals of the underground cavity.

Pokynchereda V.: Bat population of the underground shelters in Eastern Carpathians.

Tyshchenko V.: Dendrophilous Bats in the Western Podillia.

Significant development of amateur chiropterological movement has taken place

recently. It has been caused by several reasons: general increase of interest in bat researches, increase of accessibility of equipment for researches (detectors) - mainly thanks to German project "Bat conservation expert training and data collection in Southeast Europe. A German contribution toward the implementation of EUROBATS transboundary programmes".

Two main groups of chiropterologists are:

- Ukrainian Centre on Bat Protection,
- Bat Research and Protection Group.

They are concerned with protection, research and monitoring of bats.

### **Publications in book form.**

Only several books concerning bats have been published since 1998. The most important are as follows:

*Pokynchereda V.* 1997: A field key to bats of Ukraine. Rakhiv, 24 pp.

*Zagrodniuk I.* (ed.) 1998: European bat night'98. Kyiv, 198 pp.

*Zagrodniuk I.* 1999: A field key to bats hibernated in the caves of Ukraine. Intern. Solomon. Univ, Kyiv, 35 pp.

*Zagrodniuk I.* (ed.) 1999: Mammals of Ukraine, protected by the Bern Convention. Kyiv, 222 pp.

*Zagrodniuk I., Postawa T., Woloszyn B.* 1999: A field key to bats from the underground roosts of Eastern Europe. Publ. of the Chiropterological Information Center, Krakow-Kyiv, 34 pp.

It is prepared to publication:

*Woloszyn B., Bashta A.-T.* A field key to the bats of the Carpathians Mts.

### **10. Responsible bodies, nominated for the provision of advice on bat conservation and management**

**- Department of Biological Resources**

**Ministry of Ecology and Natural Resources of Ukraine**

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**11. Addition action undertaken to safeguard populations of bats**

The 3rd International Conference on Carpathian Bats held in the Carpathian Biosphere Reserve (Rakhiv, Transcarpathians region') on September 8-12, 2000.

**12. Recent and ongoing programmes (including research) relating to the conservation and management of bats**

National Action Plan for the Conservation of bats is under preparation in co-operation with Department of Biological Resources of the Ministry of the Environment and Natural Resources of Ukraine. This programme consists of:

- a) Identification of roost sites and habitats of bats;
- b) Working out of approaches and measures for bat conservation;
- c) Development of legal measures for conservation of bats;
- d) Creation the network for monitoring and activities promoting bat conservation;
- e) Public awareness relevant to the conservation of bats;
- h) International co-operation in this field.

**Programmes in progress:**

- Inventory of bat fauna in some Natural Parks and Reserves in the Eastern Carpathian Mts.

- Monitoring of cave-dwelling species.
- Migration status of bats in Ukraine.
- Ascertaining of modern status and distribution of Pond Bat in the west part of Ukraine.

The results of bat investigations carried out by Ukrainian scientists are reflected in the publications for the following topics: general and regional reviews of bat fauna, distribution of bats in Ukraine, bat ecology, study of migrations, morphology. These publications are listed in the **Annex 3**.

### **13. Consideration being given to the potential effects of pesticides on bats, and efforts to replace timber treatment chemicals which are highly toxic to bats.**

Situations similar to the last report.

The information about using of remedial timber treatment in Ukraine was prepared for the Intersessional Working Group.

## **D. FUNCTIONING OF THE AGREEMENT**

Co-operation with other Range States:

- The co-operation between the Carpathians states (Czech Republic, Slovak, Poland, Ukraine, Hungary, and Romania) in direction of preparation of Atlas of Bats of the Carpathians.
- Preparation of the Field Key to the Bats in the Carpathians Mts. together with Prof. Bronislaw W. Woloszyn (Bat Information Centre, Krakow, Poland).
- Bat-Detector Seminar organised by the Ukrainian Centre for Bat Protection and carried out according to the German project "Bat conservation expert training and data collection in Southeast Europe. A German contribution toward the implementation of EUROBATS transboundary programmes".

### **Bat-Detector Seminar, Yaduty, 30 April – 3 May 2000**

In the framework of the German project "Bat conservation expert training and data collection in Southeast Europe. A German contribution toward the implementation of EUROBATS transboundary programmes" Bat-Detector Seminar was organised in Ukraine from 30 April to 3 May 2000..

The Seminar was convened by Mr. Herman Limpens and Mr. Peter Lina and organised by the Ukrainian Centre for Bat Protection under patronage of the Ministry of the Environment and Natural Resources of Ukraine with co-operation with the nature-geographical faculty of Nizhyn Pedagogical University and under support of the Royal Netherlands Embassy.

The main objectives of Seminar were;

- Familiarising of zoologists of Nature Protection Reserves, National Parks etc. with the new methods in the field of bat research and conservation;
- Preparation of experts of bat detector investigations;
- Creation of the bat monitoring network in Ukraine.

As the result of Seminar the chiropterologists of Ukraine have received 7 ultrasonic detectors "D-200" for the field work. 7 activity centres for the organisation of the bat-monitoring network have been created:

1. Polissia, co-ordinators: B.Kedrov (Nizhyn), S.Gashchak (Chornobyl');
2. Podillia-Prydniprov'ia, co-ordinators: V.Tyshchenko (Kyiv), N.Ruzhilenko (Kaniv), V.Serebriakov and V.Negoda (Kyiv-Kaniv);
3. Eastern, co-ordinators: O.Kondratenko (Lugansk region), A.Vlashchenko (Kharkiv);
4. Prykarpattia-Volyn', co-ordinators: A.-T.Bashta, E.Srebrodols'ka (Lviv);
5. Southern, co-ordinators: I.Polishchuk (Askania), A.Dulitsky (Simferopol);
6. Transcarpathian, co-ordinators: V.Pokynchereda (Rakhiv), V.Zhdanovych (Uzhgorod);
7. Center, co-ordinators: I.Zagorodniuk, L.Godlevska, I.Kovalyova (Kyiv).

General coordination: Dr. V. Domashlinets, Ministry of the Environmental and Natural Resources of Ukraine.

### **3rd International Conference on the Carpathian Bats "State and Prospects of the Carpathian bats investigations in the verge of millenium", Carpathian Biosphere Reserve, Rakhiv, September 8-12, 2000.**

First conference was organised in the 1996 in Krakow, Poland, the second one was in Slovak in 1998.

The 3rd Conference on the Carpathian Bats was organised with financial assistance of Carpathian Biosphere Reserve and Arbeitskreis Fledermaeuse Sachsen-Anhalt (Germany).

About 30 specialists from 5 countries (Germany, the Netherlands, Poland, Romania, and Ukraine) took part in the Conference.

As a result of the Conference the following goals have been achieved:

- current state of Carpathian bat fauna researches was presented;
- some topics with regards to preparation of Carpathian Bat Atlas were discussed,
- it was decided that the 4th Conference will be held in 2002 in Romania,



### Publications in the field of bat conservation and biology

Special issue of *Novitates Theriologicae* (Vol.1 (2), 2000) prepared by the Ukrainian Centre for Bat Protection. This issue is devoted to the Bat-Detector Seminar in Yaduty, 30 April-3 May 2000.

*Agreement* on the Conservation of bats in Europe. 1999: Kyiv, Ministry of the Environment and Nature Resources of Ukraine, 28 pp.

*Bashta A.-T.* 1999: Wintering bats in underground shelters of Lviv city and its surroundings. *Plecotus et al.* 2: 123.

*Bashta A.-T.* 2000: Findings of rare bat species (*Mammalia, Chiroptera*) in the Beskids (Eastern Carpathians). *Vestnik zoologii* 34 (3): 66.

*Bashta A.-T.* 2000: *Pipistrellus nathusii* (Keyserling et Blasius, 1839) in Western part of Ukraine. In: State and prospects of the Carpathian bats investigations in the verge of millenium (Abstr. of the 3rd Intern. Conf. on Carpathians Bats, Rakhiv): 4, Rakhiv.

*Bobkova O.* 2000: Bat Ectoparasites of Western Ukraine. In: State and prospects of the Carpathian bats investigations in the verge of millenium (Abstr. of the 3rd Intern. Conf. on Carpathians Bats, Rakhiv): 5, Rakhiv.

*Godlevsky L.* 2000: Research of Kyiv's region bat fauna: past and present. *Studia Chiropterologica* 1: 9-12.

*Godlevsky L., Tyshchenko V., Negoda V.* 2000: First records of *Pipistrellus kuhlii* from Kyiv. *Vestnik zoologii* 34 (3): 78.

*Kisseliuk A.* 2000: Modern state and prospects of researches of bats on the northern slopes of the Ukrainian Carpathians. In: State and prospects of the Carpathian bats investigations in the verge of millenium (Abstr. of the 3rd Intern. Conf. on Carpathians Bats, Rakhiv): 7, Rakhiv.

*Kondratenko O., Melnychenko B.* 2000: New data about distribution of some rare species of *Mammalia* in Donetsk-Pryazovsk steppe (Eastern Ukraine). *Vestnik zoologii* 34 (6): 26.

*Kovalyova I.* 2000: The discriminant role of echolocation in bats evolution: morpho-ecological aspects. In: State and prospects of the Carpathian bats investigations in the verge of millenium (Abstr. of the 3rd Intern. Conf. on Carpathians Bats, Rakhiv): 8, Rakhiv.

*Krochko Yu.* 2000: Ecological aspects on the conservation of bats in present. *Studia Chiropterologica* 1: 9-12.

*Krochko Yu.* 2000: Rare bat species of the South-western megaslopes of the Ukrainian Carpathians. In: State and prospects of the Carpathian bats investigations in the verge of millenium (Abstr. of the 3rd Intern. Conf. on Carpathians Bats, Rakhiv): 9, Rakhiv.

*Petrushenko Ya.* 2000: Fauna of hibernating bats in the caves of Central Podolia. In: State and prospects of the Carpathian bats investigations in the verge of millenium (Abstr. of the 3rd Intern. Conf. on Carpathians Bats, Rakhiv): 12, Rakhiv.

*Pokynchereda V.F.* 2000: Spatial structure of winter bat colonies of the Ukrainian Carpathians. In: State and prospects of the Carpathian bats investigations in the verge of millenium (Abstr. of the 3rd Intern. Conf. on Carpathians Bats, Rakhiv): 16-17, Rakhiv.

*Pokynchereda V.F., Dovahnych Ya.O.* 2000: From the history of bat investigations in the Ukrainian Carpathians. In: State and prospects of the Carpathian bats investigations in the verge of millenium (Abstr. of the 3rd Intern. Conf. on Carpathians Bats, Rakhiv): 18, Rakhiv.

*Pokynchereda V.F., Pokynchereda V.V.* 2000: Seasonal dynamic of winter bat colonies in caves of the Ukrainian Carpathians. In: State and prospects of the Carpathian bats investigations in the verge of millenium (Abstr. of the 3rd Intern. Conf. on Carpathians Bats, Rakhiv): 14-15, Rakhiv.

*Postawa T., Pokynchereda V., Zagorodniuk I.* 2000: Summer Bat fauna of the Carpathians Biosphere Reserve (The Mala Uholka and Velyka Uholka Valleys). *Studia Chiropterologica* 1: 73-82.

*Tyshchenko V.* 2000: In addition to methods of bat roosts detection in the forest tracts of Western Ukraine. In: State and prospects of the Carpathian bats investigations in the verge of millenium (Abstr. of the 3rd Intern. Conf. on Carpathians Bats, Rakhiv): 20, Rakhiv.

*Tyshchenko V., Storozhuk A.* 2000: Leisler's bat (*Nyctalus leisleri*) under Medobory Nature Reserve condition. In: State and prospects of the Carpathian bats investigations in the verge of millenium (Abstr. of the 3rd Intern. Conf. on Carpathians Bats, Rakhiv): 21, Rakhiv.

*Vlashchenko A.* 2000: New finding of *Nyctalus leisleri* in Kharkiv region. Vestnik zoologii 34 (6): 92.

*Zagorodniuk I.* 2000: Biogeography of Plecotine bats in Europe and anlysis of East-Carpathian mode. In: State and prospects of the Carpathian bats investigations in the verge of millenium (Abstr. of the 3rd Intern. Conf. on Carpathians Bats, Rakhiv): 22, Rakhiv.

*Zagorodniuk I., Postawa T., Woloszyn B.* 1999: A field key to bats from the underground roosts of Eastern Europe. Krakow-Kyiv, 34 pp.

*Zagorodniuk I., Tyschenko V., Petrushenko Ya.* 2000: Horseshoe bats (*Rhinolophus*) in the Dniester region as the most north-eastern part of their range in Europe. Studia Chiropterologica 1: 115–132.

*Zhdanovych V.* 2000: About the wintering of *Barbastella barbastellus* in the mine "Statsionar" in Uzhgorod region. Vestnik zoologii 34 (3): 66.