

Nocek Bechsteina *Myotis bechsteinii*, mroczek pozłocisty *Eptesicus nilssonii* i gacek szary *Plecotus austriacus* w budkach dla nietoperzy w Tatrach

Bechstein's bat *Myotis bechsteinii*, the northern bat *Eptesicus nilssonii* and the grey long-eared bat *Plecotus austriacus* in bat boxes in the Tatra Mountains

KRZYSZTOF PIKSA, TOMASZ BRZUSKOWSKI

*Instytut Biologii, Uniwersytet Pedagogiczny im. Komisji Edukacji Narodowej w Krakowie
31–054 Kraków, ul. Podbrzezie 3
email: krzysztof.piksa@up.krakow.pl*

Key words: Chiroptera, bat box, artificial roost, the Carpathians, Poland.

The research was carried out in 2017 and 2018 in the Tatra Mountains. In the summer of 2017 and 2018, 106 wooden Stratmann and sawdust-concrete Issel bat boxes were hung in different types of forests (in upper and lower forest zones). Three bat species were observed during the inspections: Bechstein's bat *Myotis bechsteinii*, the northern bat *Eptesicus nilssonii* and the grey long-eared bat *Plecotus austriacus*. Each of them is very rarely found in this type of shelters.

Bechstein's bat was observed four times in bat boxes placed in a beech forest on the slope of Mount Wierch Poroniec. One adult female was observed in an Issel box (1064 m a.s.l.) and three individuals were observed in two Stratmann boxes (two of them of unknown sex at 1052 m a.s.l. and one male at 1062 m a.s.l.). The northern bat was observed in a Stratmann box in one locality in the Rybi Potok Valley (coniferous forest) near the Wanta forester's lodge (1140 m a.s.l.). The occurrence of this species in bat boxes has not been previously reported in Poland. The grey long-eared bat was recorded in a Stratmann box located in the beech forest on the slope of Mount Wierch Poroniec (1072 m a.s.l.). This is the highest located site of this bat species in Poland and the highest one in the Tatras in the summer period.