

Bodenfallen beprobt. Die im Untersuchungsgebiet in hohen Arten- und Individuenzahlen vorkommenden Zikaden, sowie Spinnen und Laufkäfer wurden als Beispielgruppen genauer untersucht.

Die meisten Zikadenarten tolerieren die Überflutung und überwintern in der Flussaue, während die meisten Spinnen und Laufkäfer die Flussaue in jedem Frühjahr neu besiedeln. Weiterhin hat die Untersuchung gezeigt, dass für einige seltene Zikaden- und Spinnenarten besonders regelmäßige und lange andauernde Überflutungsereignisse von besonderer Bedeutung sind. Einwandernde Arten aller drei untersuchten Taxa dominieren hingegen vor allem auf Flächen mit unregelmäßig auftretender Überflutung.

Some remarks on the planthoppers and leafhoppers of Poland

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So far more than 250 papers concerning Auchenorrhyncha (Hemiptera: Fulgoromorpha and Cicadomorpha) fauna of Poland were published, with important contribution of German researchers. This is because the present borders of Poland are different from those of the past. The first paper recording 19 species from the Silesia region was published by WEIGEL (1806), some data are also included in works of SIEBOLD (1839) and BRISCHKE (1871) from former Prussia. Further important publications are those of MATSUMURA (1906), SMRECZYNSKI (1906 - 1910) and WAGNER (1941). In 1954, Smreczynski added the most important paper based on his own material collected during 50 years of intensive investigations in different parts of Poland. He identified 349 species, mostly on the base of inner male genital structures. The first catalogue, which in fact was also the first check list, was provided by NAST (1976). This outstanding researcher on Auchenorrhyncha gave a list of all 488 species known from Poland that time supplemented with distributional data at the country level. Nowadays this list expanded to 515 species (SWIERCZEWSKI & GEBICKI 2003).

The Red List of Threatened Animals in Poland (2002) contains fourteen species of Auchenorrhyncha. Four species from this group, i.e. *Cicadetta montana* (SCOPOLI), *Cicadetta podolica* (EICHW.), *Aphrophora major* UHLER and *Aphrophora similis* LETHIERRY are mentioned in the "endangered species" category. Protection of these species needs to be unified with preservation of their natural habitats: xerothermic grasslands for *C. montana* and *C. podolica*, bogs and marshes for *A. major* and *A. similis* (SWIERCZEWSKI & GEBICKI 2002).

List of planthoppers and leafhoppers recorded in Polish mountains comprises 355 species (PILARCZYK & SZWEDO 2004). The highest number of species was recorded in the Pieniny

Mountains (209), the lowest one in the Beskid Wyspowy Mountains (94). The rare, montane species found in Poland are: *Dicranotropis divergens* KBM., *Lyristes plebejus* (SCOPOLI), *Leopallia carpathica* (MELICHAR), *Erythria manderstjernii* (KBM.), *Cicadula longiventris* (J. SAHLBERG), *Speudotettix montanus* GEBICKI & SZWIERCZEWSKI, and *Diplocolenus sudeticus* (KOLENATI).

Only three of 23 National Parks established in Poland have inventories of Auchenorrhyncha (SZWEDO 1992, 1996, 2000). Further researches in these areas of particular interest are necessary as well as in areas not protected in this form. The number of 200 species in the Bialowieza National Park, 162 species in the Ojcow National Park and 123 species in the Bieszczady National Park, was recorded respectively.

Recently, long-term investigations on Auchenorrhyncha fauna of Poland are carried out in three regions: Krakow-Czestochowa Upland, the Beskidy Mountains (Babia Gora National Park) and the Sudety Mountains (National Park of Gory Stolowe). Inventories of the species will be presented and composition, structure and dynamics of planthoppers and leafhopper communities in selected phytocoenoses are investigated.

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Verbreitungsatlas der Zikaden Mitteleuropas – ein neues Gemeinschaftsprojekt des AK Zikaden?!

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Zwei neue Bestimmungswerke zur Zikadenfauna Mitteleuropas (HOLZINGER, KAMMERLANDER & NICKEL 2003, BIEDERMANN & NIEDRINGHAUS 2004) ermöglichen es heute, die Zikadenarten Mitteleuropas ohne umfangreiche Literatursammlung relativ rasch und sicher zu bestimmen. Auf Basis dieser Werke sollte es daher mittelfristig möglich sein, auch einen Verbreitungsatlas zur mitteleuropäischen Zikadenfauna zu erstellen. Dafür ist allerdings eine Kooperation aller in Mitteleuropa an Zikaden arbeitenden

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Zeitschrift/Journal: [Beiträge zur Entomofaunistik](#)

Jahr/Year: 2004

Band/Volume: [5](#)

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