

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.11.1998	41	1	1-8
--------------	----------------------	----	---	-----

Jadwiga KACZMAREK, Małgorzata LEŚNIEWSKA

Pareczniki (*Chilopoda*) Roztocza

Abstract: As a result of studies carried out from 1987 to 1990 in the Roztocze Upland, the occurrence of 19 centipede species has been found. Among the most frequent and numerous species there were *Lithobius mutabilis*, *Lithobius curtipes*, *Lithobius cyrtopus*, *Strigamia acuminata*.

Key words: *Chilopoda*, Roztocze, Poland

Author's address: Zak³ad Zoologii Ogólnej UAM, ul. Fredry 10, 61-701 Poznań, Poland

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.11.1998	41	2	9-14
--------------	----------------------	----	---	------

Volodymyr V. MELAMUD

***Oribatida* (Acariformes) of forest coenoses in the "Roztochia" Reserve (Ukraine)**

Abstract: Investigations were carried out in the soil and litter of mixed forest coenoses in the "Roztochia" Reserve (Ukraine). A list of 138 species was prepared.

Key words: *Oribatida*, "Roztochia" Reserve, Ukraine

Author's address: State Museum of Natural History, NASU, Lviv, Ukraine

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.11.1998	41	3	15-28
--------------	----------------------	----	---	-------

Igor J. KAPRUS

The fauna of springtails (*Collembola*) from selected habitats in Roztocze

Abstract: 158 species of *Collembola*, among them species rare in Europe are recorded from Roztocze - an upland region in south-eastern Poland and in Western Ukraine. Coexistence of boreal-montane, montane, South-European, North-European and endemic species is the most characteristic feature of the fauna of the region.

Key words: *Collembola*, fauna of Roztocze

Author's address: State Museum of Natural History, NASU, Lviv, Ukraine

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.11.1998	41	4	29-32
--------------	----------------------	----	---	-------

Taras P. YANYTSKY

Buprestidae (Coleoptera) of Roztocze

Abstract: On the basis of old museum collections, our own collection and literature data 54 buprestid species were listed. Seven of these species were recorded from the region for the first time.

Key words: *Buprestidae*, *Coleoptera*, fauna of Roztocze

Author's address: State Museum of Natural History, NASU, Lviv, Ukraine

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.11.1998	41	5	33-47
--------------	----------------------	----	---	-------

Wo³odymyr B. RIZUN

Biegaczowate (*Coleoptera*, *Carabidae*) Roztocza

Abstract: 327 species of *Carabidae* from Roztocze were recorded: 288 species from the Ukrainian and 247 from the Polish part of the region.

Key words: *Carabidae*, *Coleoptera*, fauna of Roztocze

Author's address: State Museum of Natural History, NASU, Lviv, Ukraine

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.11.1998	41	6	49-75
--------------	----------------------	----	---	-------

Monika WĄSOWSKA

Leaf beetles (*Coleoptera, Chrysomelidae*) of Roztocze. Recapitulation

Abstract: The paper presents a recapitulation of studies on the Chrysomelidae of Roztocze (SE Poland). A list of 316 species recorded from this region has been compiled. The data have been compared with those for the faunas of other regions of Poland. Changes, during a period of 80 years, in the species composition within this family of beetles of Roztocze have been analysed.

Key words: *Chrysomelidae*, (*Coleoptera*), Roztocze, Poland

Author's address: Muzeum i Instytut Zoologii PAN, ul. Wilcza 64, 00-679 Warszawa, Poland

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.11.1998	41	7	77-92
--------------	----------------------	----	---	-------

Agnieszka DRABER-MOŃKO

Muchówki (*Diptera*) z rodzin *Sarcophagidae* i *Rhinophoridae* oraz uzupełnienie *Calliphoridae* Roztocza

Abstract: Studies were carried out on flesh flies and woodlouse flies of the Roztocze. From 1986 to 1992, 80 species were recorded, which account for 60% of their numbers recorded from Poland. Most of them are widely distributed saprophages and parasitoides and parasites and predators of invertebrates and vertebrates. 69 species of the family *Sarcophagidae* and 5 species of the family *Rhinophoridae* as well as 3 species of the family *Calliphoridae* are new to the region studied. 22 species are synantropes. 62 species of flesh flies, 4 species of woodlouse flies and 43 species of blow flies are now known from the Roztoczański National Park.

Key words: *Diptera*, *Sarcophagidae*, *Rhinophoridae*, *Calliphoridae* (suppl.); faunistic; Roztocze (SE Poland)

Author's address: Muzeum i Instytut Zoologii PAN, ul. Wilcza 64, 00-679 Warszawa, Poland

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.11.1998	41	8	93-123
--------------	----------------------	----	---	--------

Joanna ZIOMEK

Drobne ssaki (*Micromammalia*) Roztocza
Część I. *Micromammalia* wybranych biotopów Roztocza Środkowego

Abstract: The paper presents the results of investigation of the occurrence of small mammals in the Central Roztocze Upland based on the catch. Mammals were caught in fifteen habitats in 108 localities during 1986-1990. The material consists of 2543 specimens belonging to 19 species.

Key words: *Micromammalia*, fauna of Roztocze

Author's address: Department of systematic Zoology Adam Mickiewicz University, Fredry 10, 61-701 Poznań, Poland

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.11.1998	41	9	125-137
--------------	----------------------	----	---	---------

Joanna ZIOMEK

Drobne ssaki (*Micromammalia*) Roztocza
Część II. *Micromammalia* Roztocza Zachodniego i Środkowego
na podstawie zrzutek sów

Abstract: The pellets of four owl species *Tyto alba* (SCOP.), *Strix aluco* L., *Asio otus* (L.) and *Bubo bubo* (L.) were collected during the years 1986-87 and 1998-1990 from 14 localities situated in Western and Central Roztocze Upland (SE Poland) (Fig. 1). From the collected pellet material there were bony remains of 6101 individuals of vertebrates belonging to mammals (n=6025) and birds (n=72) and 15 specimens of insects (Tab. I). The prepared mammals belonging to 24 species (which makes 82,7% *Micromammalia* recorded for Roztocze). *Apodemus uralensis* is new to the fauna of the Roztocze.

Key words: small mammals, Central and Western Roztocze Upland, owl pellets

Author's address: Department of systematic Zoology Adam Mickiewicz University, Fredry 10, 61-701 Poznań, Poland

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 15.12.1998	41	10	139-150
--------------	----------------------	----	----	---------

Przemysław TROJAN

Faunistic studies in Poland – historiography and stages of development

Abstract: Five stages of faunistic studies in Poland can be distinguished, differing in tasks, principles and methods applied. In Stage One [from the annalists to the Commission of National Education (1773)] faunistic information was collected in order to describe the resources and wealth of the country. In Stage Two (1773–1855) the ideas of Enlightenment put into practice resulted in the preparation of new textbooks based on verified information on faunal resources. In Stage Three (1855–1918) faunistic research became an integral part of the physiographic studies of the old ethnic Polish territory. In Stage Four (1918–1945) a detailed programme of regional faunistic studies was developed on the territory under Polish rule. It was based on new methodology of faunistic research. In Stage Five (1945 till now) quantitative methods were incorporated into faunistic research. Fauna is examined as an important national resource and the investigations are carried out mostly in defined ecosystems such as forests, agrocoenoses, meadows and towns.

Key words: faunistic, historiography, periods, Poland.

Author's address: Muzeum i Instytut Zoologii PAN, ul. Wilcza 64, 00-679 Warszawa, POLAND.

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 15.12.1998	41	11	151-165
--------------	----------------------	----	----	---------

Jolanta WYTWER* and Janusz SAWONIEWICZ**

Diversity indices of double classification in the study of *Ichneumoninae* (*Hymenoptera*, *Ichneumonidae*) communities

Abstract: Diversity indices of double classification (considering the species' assignment and place of catching) were employed for the analyses of *Ichneumoninae* communities of *Peucedano- and Leucobryo-Pinetum* in three regions of Poland, with four successional stages included. The obtained values of indices allow evaluation of structural changes of *Ichneumoninae* communities of Scots pines crown canopies, in the course of succession and they reveal the regional differences of the process' development. In the climax phase of succession the similar structural pattern of the community for the three regions of Poland was observed. The process of optimal *Ichneumoninae* community formation is connected with the rise-and-fall succession, with diversity and complexity growing in the earlier stages of the succession and then subject to slow decrease in the later stages. An assessment of 9 indices usability for analysing structural changes in the fauna associations has been completed. Out of them, particularly important for the studying the processes of mature community formation proved two indices: the mean niche width and the mean degree of habitats overlap.

Key words: diversity indices of double classification, complexity, community, *Ichneumoninae*, *Peucedano- and Leucobryo-Pinetum*, succession

Authors' addresses: * Museum and Institute of Zoology, PAS, Wilcza 64, 00-679 Warszawa, POLAND
** Department of Forest Protection and Ecology, University of Agriculture, Rakowiecka 26/30, 02-528 Warszawa, POLAND

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 15.12.1998	41	12	167-182
--------------	----------------------	----	----	---------

Regina BAŃKOWSKA

Syrphid flies (*Syrphidae*, *Diptera*) from North Korea collected by Polish expeditions. Part I (*Milesiinae*, *Microdontinae*)

Abstract: This paper deals with *Syrphidae* material collected in North Korea by 6 expeditions of researchers from the Institute of Zoology, PAS, Warsaw, Poland from 1959 to 1990. The subfamilies *Milesiinae* and *Microdontinae* were analysed. 37 species of syrphid flies were identified, only 9 of which had been previously known from Korea. Among the species were several very rare forms, often known only from original descriptions: *Volucella inanoides* HERVÉ-BAZIN, *Sphagina melancholica* STACK., *Asiosphagina nitidifrons* STACK., *Lathyrophthalmus viridis* (COQ.), *Spilomyia panfilovi* ZIMINA and *Xylota frontalis* (SHIRAKI & EDASHIGE).

Key words: *Syrphidae*, *Diptera*, North Korea

Authors' address: Museum and Institute of Zoology PAS, ul. Wilcza 64, 00-679 Warszawa, POLAND

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 15.12.1998	41	13	183-192
--------------	----------------------	----	----	---------

Wojciech B. JĘDRYCKOWSKI

Pseudoscorpions (*Pseudoscorpionida*) of Vietnam

Abstract: Basing on literature data 48 species of pseudoscorpions have been recorded from Vietnam, 27 of them are known exclusively from this country. It seems, that pseudoscorpions fauna is mainly of Oriental character.

Key words: pseudoscorpions, Vietnam.

Author's address: Museum of Hunting and Horsemanship, Szwoleżerów 9, 00-464 Warszawa, POLAND,
e-mail: wjedrycz@wa.onet.pl

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 15.12.1998	41	14	193-207
--------------	----------------------	----	----	---------

Piotr SKUBAŁ

Oribatid mite communities (*Acari: Oribatida*) on postindustrial dumps of different kinds.

II. Community organization

Abstract: Oribatid mites of five postindustrial dumps (zinc and iron metallurgic dumps, dumps of power and chemical plants and a galena-calamine mine dump) were investigated in the Upper Silesian Region (south Poland). The age of dumps and the development of the vegetation were similar. 108 species of *Oribatida* were found on dumps. Dominance and the species structure of oribatid communities and ecological data of mites were analysed. Different oribatid communities were described on each dump with regard to dominance structure, species combination and species diversity. The most stable and dissimilar was the oribatid community on the galena-calamine dump. The major part of the communities comprised eurytopic species of broad distribution. Although, the number of microphytophagous species was higher in general, panphytophages exceeded 50% of the total numbers on three dumps.

Key words: *Oribatida*, postindustrial dumps, community structure, species composition

Author's address: University of Silesia, Department of Ecology, 40-007 Katowice, Bankowa 9, POLAND

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 15.12.1998	41	15	209-212
--------------	----------------------	----	----	---------

Jadwiga BARGA-WIĘCŁAWSKA

**The occurrence of a rare snail *Helicigona lapicida* (LINNAEUS, 1758) (*Gastropoda*,
Helicidae) in the Świętokrzyskie Mountains**
[With 2 figures]

Abstract: The population of the vulnerable species of snail *Helicigona lapicida* (LINNAEUS, 1758) (V) was found in Bobrza, in the north-western part of the Holy Cross Mts. The species inhabits ruins of a high class monument of metallurgy industry by the Bobrza river. This locality is situated at the eastern part of the species range.

Key words: snail, vulnerable species, new locality, environment of ruins, The Świętokrzyskie Mountains, Poland

Authors' address: Wyższa Szkoła Pedagogiczna im. Jana Kochanowskiego, Instytut Biologii, ul.
Konopnickiej 15, 25-406 Kielce, Poland

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 15.12.1998	41	16	213-232
--------------	----------------------	----	----	---------

Maria STERZYŃSKA, Andrzej DYRCZ*, Zofia GĘBCZYŃSKA**, Grzegorz LESIŃSKI***, Jan RACZYŃSKI**, Jerzy ROMANOWSKI***, Wiesław WIŚNIEWOLSKI****

Review on the faunistic study of the Biebrza National Park - bibliography

Abstract. The paper presents a bibliography of the vertebrate and invertebrate fauna of Biebrza National Park, comprising articles or notes that have been published over the last three decades.

Key words: fauna, Biebrza National Park, bibliography

Authors' addresses: Museum and Institute of Zoology PAS, Wilcza 64, 00-679 Warszawa, POLAND.
* Museum of Natural History, Wrocław University, Sienkiewicza 21, 50-353 Wrocław, POLAND
** Institute of Biology of the Branch of Warsaw University, Œwierkowa 20B, 23-453 Bia³ystok, POLAND
*** Institute of Ecology, PAS, 05-092 Œomianki, POLAND
**** Inland Fisheries Institute, Dept. of River Fisheries, Tabieniec, G³ówna 48, 05-500 Piaseczno, POLAND

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.12.1998	41	17	233-245
--------------	----------------------	----	----	---------

Justyna BEDNARCZYK*, Cezary GĘBICKI**

Piewiki (*Homoptera, Auchenorrhyncha*) okolic Janowa Lubelskiego

Abstract: Faunistic studies carried out in Janów Lubelski (Sandomierz Basin, Eastern Poland) during the period 1996-1997, resulted in 117 species of *Auchenorrhyncha* recorded from the area which is clinging to future national park in forests of Janów Lubelski. Two species: *Bugraria ocularis* (M., R.) and *Streptanus ogunae* MATS. are new to Poland.

Key words: *Homoptera, Auchenorrhyncha*, Poland, Sandomierz Basin, faunistics, new records

Authors' addresses: * Katedra Zoologii Uniwersytetu Śląskiego, ul. Bankowa 9, 40-145 Katowice, POLAND

** Wyższa Szkoła Pedagogiczna, Zakład Ochrony Środowiska, ul. Armii Krajowej 13/15, 42-201 Częstochowa, POLAND

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.12.1998	41	18	247-250
--------------	----------------------	----	----	---------

Wojciech CZECHOWSKI*, Wiesława CZECHOWSKA*, Alexander RADCHENKO**

Nowe dane o rozmieszczeniu w Polsce rzadkich gatunków mrówek z rodzaju *Leptothorax* MAYR (Hymenoptera, Formicidae)

Abstract. New localities of *Leptothorax gredleri* MAYR, *L. corticalis* (SCHENCK), *L. nigriceps* MAYR, *L. parvulus* (SCHENCK), *L. tuberum* (FABR.), and *L. unifasciatus* (LATR.) in Poland, are given.

Key words: ants, *Leptothorax*, fauna of Poland

Authors' addresses: *Museum and Institute of Zoology, PAS, Wilcza St. 64, 00-679 Warszawa, POLAND

**Institute of Zoology, UNAS, B. Khmelnytsky St. 15, Kiev-30, 252601
UKRAINE

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.12.1998	41	19	251-254
--------------	----------------------	----	----	---------

Wiesława CZECHOWSKA, Wojciech CZECHOWSKI

Gatunki mrówek (*Hymenoptera, Formicidae*) nowe dla Niziny Sandomierskiej

Abstract. Seven ant species new to the Sandomierska Lowland (S-E Poland) are revealed. They were found in Puszcza Sandomierska (the Sandomierska Forest) in July 1998.

Key words: ants, fauna of Poland

Authors' address: Museum and Institute of Zoology PAS, Wilcza St. 64, 00-679 Warszawa, POLAND

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.12.1998	41	20	255-267
--------------	----------------------	----	----	---------

Beata BARABASZ, Andrzej GÓRZ

Argiope bruennichi (SCOPOLI, 1772)
- rzadki i słabo zbadany gatunek pająka w Polsce

Abstract: In connection with the expansion of *Argiope bruennichi* on the territories of Central Europe, observations on the behaviour of this spider have been carried out for a long time in the new climatic conditions, its spreading in the northern localities and the range of this expansion. Attempts have also been made to elucidate the migrating directions selected by the spider. The growing number of localities occurring in Poland contradicts the statement that the spider is really a rare element in our arachnofauna.

Key words: *Argiope bruennichi*, rare species, range of expansion

Authors' address: Instytut Biologii WSP, ul. Podbrzezie 3, 31-054 Kraków, POLAND.

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.12.1998	41	21	269-277
--------------	----------------------	----	----	---------

Zbigniew DANILKIEWICZ

**Babka szczupła, *Neogobius fluviatilis* (PALLAS, 1811),
Perciformes, Gobiidae - nowy, pontyjski element
w ichtiofaunie zlewiska Morza Bałtyckiego.**

Abstract: *Neogobius fluviatilis* (PALLAS), a Pontic element new to the ichthyofauna of the Baltic basin is reported occurring in the River Bug (Poland)

Key words: *Neogobius fluviatilis*, *Perciformes*, *Gobiidae*, Bug River, Eastern Poland.

Author's address: 21-500 Biała Podlaska, Aleja Tysiąclecia 27 m. 46, POLAND.

MUZEUM I INSTYTUT ZOOLOGII
POLSKIEJ AKADEMII NAUK

FRAGMENTA FAUNISTICA

Fragm. faun.	Warszawa, 30.12.1998	41	22	279-304
--------------	----------------------	----	----	---------

Elżbieta CHUDZICKA, Ewa SKIBIŃSKA

Fauna Kampinoskiego Parku Narodowego i jego otuliny w piśmiennictwie XX wieku

Abstract. Faunistical bibliography connected with the territory of Kampinoski National Park and protected zone around it has been compiled. The bibliography comprises about 390 papers printed up to 1992 and concerning the contemporary fauna.

Key words: bibliography, fauna, Kampinoski National Park.

Authors' address: Muzeum i Instytut Zoologii PAN, Wilcza 64, 00-679 Warszawa, POLAND