

Catalogue of fossil and subfossil birds of Poland

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Abstract. All fossil and subfossil bird remains described up to mid-1993 are included. They date from the period between the Late Oligocene and the Middle Ages or even the Modern Ages. They come from 164 localities where palaeontological as well as archaeological excavations were carried out: 2 in Oligocene deposits, 1 Miocene, 4 Pliocene, 11 Pleistocene, 16 Late Pleistocene and Holocene, and 130 Holocene (most of them from the Middle Ages). The remains described represent 8 fossil genera and species, 1 fossil subspecies and at least 165 neospecies.

Key words: Fossil birds, Poland, Oligocene, Miocene, Pliocene, Pleistocene, Holocene, catalogue.

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I. INTRODUCTION

The present work comprises data on the fossil and subfossil birds of Poland, within the frontiers established after 1945. The data come from both scientific and popularized scientific literature on zoological, paleontological and archaeological subjects in which bird remains acquired from excavations are mentioned, irrespective of the age of their origin (from the Oligocene to the modern times). However, only information concerning definite localities is presented; for instance, I quote my own synthetic work (BOCHENSKI 1989) only in cases of older species discussed as components of particular faunas, but I do not name the species from the Late Pleistocene and Holocene, which, because of - among other things - the number of their finds, were treated jointly there. As regards these species, I confine myself to the citing of the original works in which their remains were described or mentioned on the occasion of a description of faunas from definite localities. This criterion was also applied in the case of several other synthetic works. In a cumulative table in one of such works, in addition to the remains mentioned earlier from various localities WALUSZEWSKA-BUBIEŃ (1984) includes also materials from some other, so far

undescribed localities. In consequence, it becomes necessary to treat that work as a source work, although it gives no descriptions of materials and localities.

All the forms mentioned in particular works are placed in taxa in accordance with the data given by the authors describing the material. That means that the identifications of particular remains have not been verified, however doubtful they may have seemed, especially with regard to the studies from the times when substantial comparative osteological collections were in shortage in Poland and so were detailed comparative osteological works on selected avian groups in European literature. Doubtful seems above all the authoritative classification of remains with a species which has a "twin" in the European fauna, i.e. another species, very similar in size, belonging to the same genus and osteologically so closely related that some bones and notably their fragments may be very hard to determine unambiguously (examples: Mute Swan and Whooper Swan, Greylag Goose and Bean Goose, some ducks, Crow and Rook and several others). Naturally, this refers to remains from the Late Pleistocene and, especially, the Holocene and so belonging to the contemporary species.

Level to which particular remains are identified in the works quoted here is various; most of them are identified to specific level, distinctly fewer to generic level, but sometimes the crumbling and the poor state of preservation of fragments do not allow even that much and the authors have to name only the family or even the order to which the remains belong. All these cases have been included in the present catalogue, whereas the remains defined as "indeterminate birds" (*Aves indet.*) have been all omitted. For it seems that the introduction of this category of remains, for the most part, with no prospects for closer determinations, especially as regards Quaternary materials, contributes nothing to science.

The now generally accepted systematic arrangement has been applied in the present work and the discussions of particular families, genera and species are ordered according to it. The Latin nomenclature used is updated on the basis of the most recent systematic studies. It therefore becomes necessary to give all the synonyms under which particular remains were described by various authors. These synonyms (in some cases also Polish names, if the authors did not give the Latin names in addition to them) are specified under the binding full Latin name in square parentheses and references are made to the works in which they were used. Domesticated birds which are very frequently and in large numbers represented in materials from archaeological excavations covering a period from the Neolithic to the modern times, have particularly many synonyms. As synonymous with the Latin name under which the material of a given species is described I regard other full Latin names, other generic names, different generic endings or abbreviations of names occasionally used. On the other hand, I do not put into the category of synonyms the authors' surnames, their abbreviations, dates and parentheses used (example: the synonyms of the name *Anas platyrhynchos* LINNAEUS, 1758, are: *Anas platyrhyncha*, *Anas platyrh.*, *Anas boschas*, *kaczka krzyżówka*, *krzyżówka* etc.). In this work I use synonyms in the present-day strict sense of the word, e.g. I treat the Polish name "orzeł" (KUBASIEWICZ 1955) as synonymous with the Latin "*Aquila* sp.", although the same author (KUBASIEWICZ 1956) writes "Orzeł... prawdopodobnie orzeł bielik (*Haliaeetus albicilla*)" (= "Eagle ... probably White-tailed Eagle (*Haliaeetus albicilla*)"); similarly, I treat the

Table I

Comparison of stratigraphic and archaeological classifications of the Holocene on the background of the time scale.
 Abbreviations: A. – Age (Ages), C.W. – Corded Ware Culture, Fun.B. – Funnel Beaker Culture, H. – Hallstatt Period, Hist.T. – Historical Times, L. – La Tène Period, Late B.P. – Late Band Pottery Culture, Lin. B.P. – Linear Band Pottery C., M.N. – Migration of Nations, Mod. – Modern Ages, M.A. – Middle Ages (Early and Late), Pb. – Preboreal, PLST. – Pleistocene, Prz. – Przeworsk Culture, S – Strzyżów Culture, U – Unetice Culture

Paleo- lithic	<div>Fun. B. Lengyel Lin. B.P. Late B.P. Janislawice</div>												<div>S - U C.W. Lusatian M.N. Prz.</div>				Cultures in Poland ³	ARCHAEO- LOGICAL CLASSI- FICATION
	Mesolithic		Neolithic		Bronze	H. L. Roman		Middle A.	Mod									
						Iron Age		Hist. T.										
			Neolithic		Bronzé	Iron A.		Hist. T.										
			Subboreal		Subatlantic													
PLST.	Pb.	Boreal	Atlantic		Subboreal		Subatlantic		General ²		} Poland ¹	STRATI- GRAPHIC CLASSI- FICATION						
	Preboreal		Boreal	Atlantic		Subboreal		Subatlantic										
	EARLY		MIDDLE		LATE													
	H O L O C E N E																	
8	7	6	5	4	3	2	1	0	1	2	BC/AD	TIME IN						
10	9	8	7	6	5	4	3	2	1	0	BP	K. YRS						

1 – Acc. to NADACHOWSKI et al. (1989b); 2 – Acc. to HAQ & EYSINGA (1987); 3 – Acc. to Professor J. KRUK (oral comm.).

name "gęś" (goose) as synonymous with "*Anser* sp.", although there is some but not much probability that the remains belonged to the genus *Branta*. In the case of domesticated birds (if this can be inferred from the context) the names "gęś" (goose) and "kaczka" (duck) or "gęś domowa" (domestic goose) and "kaczka domowa" (domestic duck) are regarded as the synonyms of the names of the respective wild birds from which they descend and so univocally *Anser anser* and *Anas platyrhynchos*.

The data on particular species are arranged in conformity with the stratigraphic division and the remains from the Holocene, Pleistocene, Pliocene, Miocene and Oligocene are dealt with separately. The materials described in the nineteenth-century literature often cannot be univocally assigned to a particular period; a special category "lack of stratigraphic data" has therefore been created for them and as a rule comprises such remains from the Pleistocene (presumably mainly from the period of the last glaciation) and the Holocene; in this category I also include mixed materials from earth heaps remaining after earlier excavations. Inside each of the groups mentioned the remains are marshalled according to localities in order of their descriptions.

Another problem emerging in the determining of the geological age of remains were differences between the interpretations of the Pliocene/Pleistocene boundary, given in literature (especially in earlier works). In the present catalogue in conformity with settlements, this boundary was assumed at 1 780 000 years BP. That involved the necessity to verify the determinations presented in some publications (e.g. JÁNOSSY 1974). The results of comparative studies on deposits in the caves and rockshelters in the Saspowska Valley (MADEYSKA 1988) permitted the correction or a more precise statement of some datings. That is particularly so regarding the individual layers of the Rockshelter above Niedostępną Cave - hence some divergencies in relation to the original study on the bird remains from that locality (BOCHEŃSKI 1974b).

The youngest remains of fossil birds in considerable measure come from archaeological excavations and the data about them published in archaeological and archaeozoological publications, apply datings used in that domain of science. They revert to the human cultures found at given localities and accompanied by animal remains, whereas the stratigraphical classification, used besides in paleontology, has been disregarded. Absolute datings are also frequently omitted and, where they are given, they often need correcting. For, according to Prof. Janusz KRUK (oral comm.), if the criteria for classifying archaeological monuments with particular cultures have been exact and essentially unchangeable for many years, then the progress of science (e.g. the increasing use of radiocarbon datings) often necessitates the alteration of their place in time. In the case of several localities this has been marked in notes. An additional difficulty is the fact that the occurrence of cultures may be dependent not only on time but also on geographical location (e.g. in Poland the Neolithic appears in some places in 6800 BP, whereas not far away the Mesolithic still persists till about 5500 BP; larger distances may cause greater differences). It seems therefore that an attempt to correlate the stratigraphical and archaeological divisions of the Holocene against the time scale in a Table I. may turn out useful not only for the users of the present work. The data presented in it come from several sources and disagree partly with each other; they have been confronted here to show these differences. Both the

stratigraphical and archaeological classifications, which, in Prof. KRUK's opinion, are consistent with the present state of knowledge, are distinguished by bold-faced type.

In the survey of species the Latin name and its synonyms drawn from literature are followed by the names of localities, caves, outcrops, etc. where the remains were collected and next, as far as possible, by the accurate determination of their age (acc. to the data from the works giving descriptions of remains and localities); the accuracy scale and the divisions adopted are however various. Next come the works in which the remains were mentioned, with the pages on which the mentions occurred. If in a given locality there were several sites with materials representing the same period (e.g. Middle Ages), they were treated jointly and the singular sites are given in the section devoted to the description of localities. That section contains also the data on their geographical situation.

The collection of the complete literature quoted in the present work was a hard task. Here I wish to thank Ms Jolanta PAŁKA of the Library of the Institute of Systematics and Evolution of Animals, Polish Academy of Sciences, in Kraków for her effective assistance with this job. I also owe my thanks to Prof. Dr Piotr WYROST and Prof. Dr Aleksandra WALUSZEWSKA-BUBIEŃ of the Academy of Agriculture in Wrocław, Prof. Dr Marian SOBOCIŃSKI of the Academy of Agriculture in Poznań and Prof. Dr Stanisław NOGALSKI of Szczecin University for supplying material complements to my Work. My heartfelt thanks go to Prof. Dr Janusz KRUK of the Cracow Branch of the Institute for Archaeology and Ethnology, Polish Academy of Sciences, for valuable remarks and help with the construction of the correlation table and to Dr Jerzy KOPACZ of the same Institute for help with the plotting of the localities on the map.

II. SURVEY OF LOCALITIES

The localities which afforded the bird remains catalogued in this work are here arranged in alphabetical order. However much the available data on these localities differ in bulk, I try to place information about their situation in the description following the name and its synonyms, if there are any. The abolition of the administrative division of the country into districts in 1975 followed by an increase in the number of provinces induced the necessity to update the determinations of the situation of many localities in administrative units (hence frequent differences between the data given in this section and those in original publications). Next come the data on excavations, the datings of materials and the indication of the works in which the avian materials were described or mentioned. In her synthetic work on Early Medieval materials, WALUSZEWSKA-BUBIEŃ (1984) lists the localities without giving their descriptions and any data. The descriptions of some of such localities, i.e. those whose materials were not published separately, are to a great extent limited in the present catalogue and the localities themselves are marked with an asterisk (*). The discussion of each locality is followed by a three-letter acronym in square brackets, with which it is marked on the map (Fig. 1). The letters A, B, C and D preceding the acronym and separated from it with a colon indicate that this locality is shown on an enlarged segment of the map, marked with this letter.

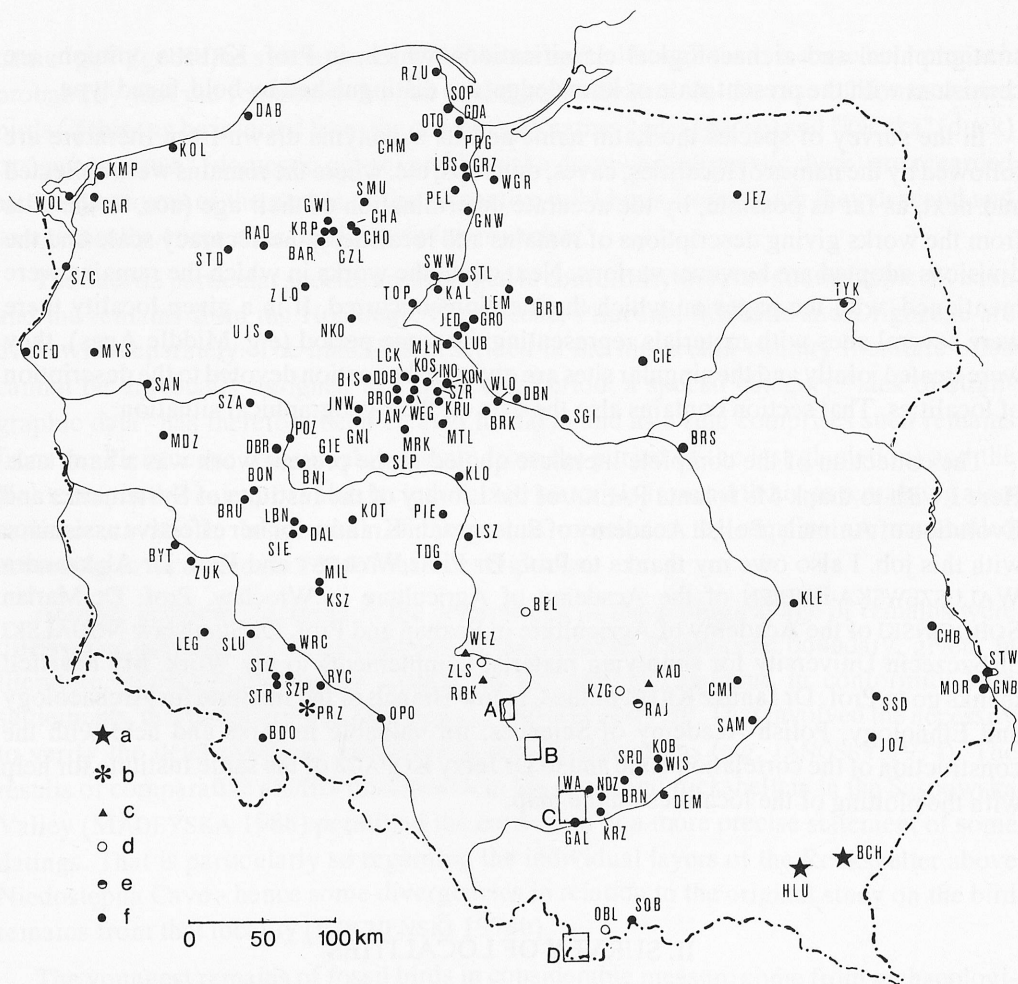
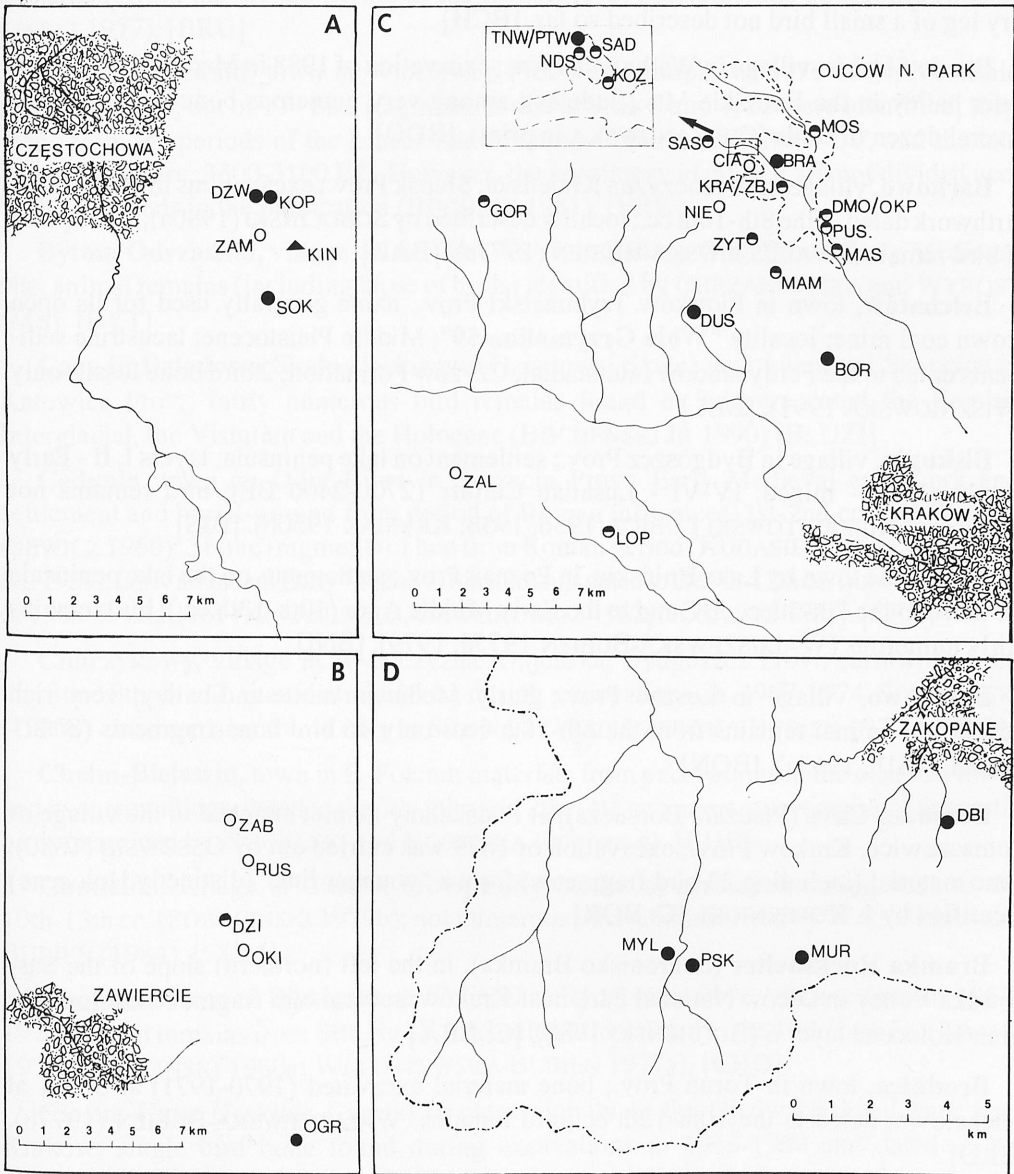


Fig. 1. Distribution of localities of bird fossils in Poland. Symbols of the geological age: a - Oligocene, b - Miocene, c - Pliocene, d - Pleistocene, e - Pleistocene and Holocene (together) and excavations from 19th c. with "lack of stratigraphy", f - Holocene. Letter symbols of localities on the main map and its enlarged segments A, B, C and D (abbreviations used: C. - cave, Rs. - rockshelter): BAR - Barkowo, BCH - Bachów, BDO - Bardo Śląskie, BEL - Bełchatów, BIS - Biskupin, BNI - Bnin, BON - Bonikowo, BOR - Borsucza C., BRA - Bramka Rs., BRD - Brodnica, BRK - Brześć Kujawski, BRN - Bronocice, BRO - Broniewice, BRS - Brodno Stare, BRU - Bruszczewo, BYT - Bytom Odrzański, CED - Cedynia, CHA - Charzykowy, CHB - Chełm-Bielawin, CHM - Chmielno, CHO - Chojnice, CIA - Ciasna C., CIE - Ciechanów, CMI - Cmielów, CZL - Człuchów, DAB - Dąbki, DAL - Daleszyn, DBI - Rs. in Biały Stream Valley, DBN - Dobrzyń, DBR - Dąbrówka, DEM - Demblin, DMO - Dolne Małe w Okopach Rs., DOB - Dobieszewice, DUS - Dużej Sowy C., DZI - C. in Dziadowa Skąta, DZW - Dzwonnica C., GAL - Nad Gałoską C., GAR - Gardziec, GDA - Gdańsk, GIE - Giecz, GNB - Gródek Nadbużny, GNI - Gniezno, GNW - Gniw, GOR - Gorenicka C., GRO - Gronowo, GRZ - Gorzędziej, GWI - Gwieździn, HLU - Hłudno, INO - Inowrocław, IWA - Iwanowice, JAN - Janikowo, JED - Jedwabno, JEZ - Jezioro, JNW - Jankowo Wielkopolskie, JOZ - Józefów, KAD - Kadzielnia, KAL - Kałdus, KIN - Kielniki, KLE - Klementówce, KLO - Koło, KMP - Kamień Pomorski, KOB - Kobylniki, KOL - Kołobrzeg, KON - Konary, KOP - Kopana C., KOS - Kościelec Kujawski, KOT - Kotlin, KOZ - Koziarnia C., KRA - Krakowska C., KRP - Krępsk, KRU - Kruszwica, KRZ - Krzesławice, KSZ - Kaszowo, KZG - Kozi Grzbiet, LBN - Lubiń, LBS - Lubiszewo, LCK - Łącko, LEG - Legnica, LEM - Lembarg, LOP - Na Łopiankach C., LSZ - Łyszkowice, LUB - Lubicz, MAM - Mamutowa C., MAS - Maszycka C., MDZ - Międzyrzecz Wielkopolski, MIL - Milicz, MLN - Mała Nieszawka, MOR - Moroczyn, MOS - Nad Mosurem Starym Duża C., MRK - Mrówki, MTL - Mietlica, MUR - Za Murem C., MYL - Mylna C., MYS - Myślibórz, NDS - Rs. above Niedostępna C., NDZ - Niedźwiedź, NIE - Nietoperzowa C., NKO - Nakło, OBL - Obłazowa Mt., OGR - Ogrodzieniec, OKI - Okiennik C., OKP - Okopy Wielka Dolna C., OPO - Opole, OTO - Otomin, PEL - Pelplin-Maciejewo,



PIE - Piekary and Wola Piekarska, POZ - Poznań, PRG - Pruszcz Gdański, PRZ - Przeworno, PSK - Poszukiwaczy Skarbów C., PTW - Rs. below Tunel Wielki, PUS - Rs. in Puchacza Skąta, RAD - Radacz, RAJ - Raj C., RBK - Rębelice Królewskie, RUS - Rs. in Ruska Skąta, RYC - Ryczyn, RZU - Rzucewo, SAD - Sadłana C., SAM - Samborzec, SAN - Santok, SAS - Saspowska Zachodnia C., SGI - Szeligi, SIE - Siemowo, SLP - Słupca, SLU - Słup, SMU - Smuszewo, SOB - Lower Cave in Sobczański Gorge, SOK - Pod Sokolą C., SOP - Sopot, SRD - Stradów, SSD - Sasiadka, STD - Stare Drawsko, STL - Stolno, STR - Strachów, STW - Strzyżów, STZ - Stary Zamek, SWW - Świecie on Vistula, SZA - Szamotuły, SZC - Szczecin, SZP - Szczepankowice, SZR - Szarlej, TDG - Tądów Górny, TNW - Tunel Wielki Rs., TOP - Topolno on Vistula, TYK - Tykocin, UJS - Ujście, WEG - Węgierce, WEZ - Weże, WGR - Węgry, WIS - Wiślica, WLO - Włocławek, WOL - Wolin, WRC - Wrocław, ZAB - Zabia C., ZAL - Rs. at Zalas, ZAM - Zamkowa Dolna C., ZBJ - Zbójcka C., ZLO - Złotów, ZLS - Zalesiaki, ZUK - Żukowice, ZYT - Rs. in Żytńia Skąta

Bachów, village in the river San valley in Przemyśl Prov.; outcrop of menilite shales dated to the Upper Oligocene (MN 1), pelagic sediments (BOCHEŃSKI in print); fragmentary leg of a small bird not described so far. [BCH]

Bardo Śląskie, village in Wałbrzych Prov.; excavation of 1988 in Medieval castle and outer bailey in the Bardzkie Mts (Sudetes); among very numerous bone remains, only several dozen of birds (CHRZANOWSKA in print). [BDO]

Barkowo, village in Wysoczyzna Krajeńska, Słupsk Prov.; excavations in 1967-1974; earthwork dated to the 8th-10th cc.; locality described by SOBOCIŃSKI (1980a), description of bird remains: WALUSZEWSKA-BUBIEŃ (1977a). [BAR]

Bełchatów, town in Piotrków Trybunalski Prov., name generally used for its open brown coal mine; locality "Wola Grzymalina 59"; Middle Pleistocene: lacustrine sediments dated to the Ferdynandów Interstadial, Czyżów Formation; 2 bird bone fossils only (WISZNIOWSKA 1991). [BEL]

Biskupin, village in Bydgoszcz Prov.; settlement on lake peninsula; layers I, II - Early Medieval, III - mixed, IV-VI - Lusatian Culture (2700-2400 BP); bird remains not numerous (NIEZABITOWSKI LUBICZ- 1936, 1938; KRYSIAK 1950b). [BIS]

Bnin, little town by Lake Bnińskie, in Poznań Prov.; settlements on the lake peninsula are dated to the 7th-5th cc. BC and to the Early Middle Ages (10th-13th cc.); bird remains fairly numerous (WALUSZEWSKA-BUBIEN 1975d, 1979). [BNI]

Bonikowo, village in Leszno Prov.; Early Medieval motte-and-bailey; very rich material of animal remains from the 8th-10th cc. - only 46 bird bone fragments (SOBOCIŃSKI 1961b, 1963a). [BON]

Borsucza Cave (Piecbara Borsucza), at Podskalany hamlet attached to the village of Tomaszowice, Kraków Prov.; excavation of 1879 was carried out by OSSOWSKI (1880); bone material (including 23 bird fragments) from a "younger link" (distinctly Holocene) identified by J. KOPERNICKI. [C: BOR]

Bramka Rockshelter (Schronisko Bramka), in the left (northern) slope of the SĄSPOWSKA Valley in Ojców National Park near Kraków; several bird fragments exclusively from Holocene layer 6 (BOCHEŃSKI 1988). [C: BRA]

Brodnica, town in Toruń Prov.; bone material excavated (1970-1971) at **Site 1** at Michałowo, dated to the 10th-12th cc.; bird remains: WALUSZEWSKA-BUBIEŃ (1977b). [BRD]

Broniewice, village in Bydgoszcz Prov.; Lengyel Culture settlement excavated in 1969-1974; radiocarbon dating: 3110±60 BC; 2 bird bones (SOBOCIŃSKI 1979a). [BRO]

Bronocice, village near Kazimierza Wielka, Kielce Prov.; Neolithic settlement; 20 bird bone fragments (BOCHEŃSKI 1982). [BRN]

Bródno Stare, village, now included in Greater Warsaw; excavations of 1949-1950 and 1952 in the area of an Early Medieval earthwork and adjoining settlement from the 10th and the beginning of the 11th cc.; scarcely 8 avian fragments (KRYSIAK 1956b). [BRS]

Bruszczewo, village in Leszno Prov.; materials from excavations of 1964 -1966 in a settlement from the second period of the Bronze Age; not numerous bird bones (SOBOCIŃSKI 1977). [BRU]

Brześć Kujawski, town in Włocławek Prov.; excavations of 1976-1979; Neolithic settlement area; out of 174 bird fragments found at Sites 3 and 4, 55 were identified; they come from the periods of the Linear Band Pottery Culture, 4200-3900 BC, and the late Lengyel Culture, 3500-3100 BC. However, the specimens identified are not divided acc. to these periods in the publication (BOGUCKI 1981). [BRK]

Bytom Odrzański, village on the Odra River, in Zielona Góra Prov.; Early Medieval site; animal remains (including those of birds) identified by CHRZANOWSKA and WYROST (MS). [BYT]

Cave in Dziadowa Skala (Jaskinia w Dziadowej Skale) near village of Skarżyce in Katowice Prov.; fairly numerous bird remains found in 9 layers dated the Eemian Interglacial, the Vistulian and the Holocene (BOCHEŃSKI JR 1990) [B: DZI]

Cedynia, town on Odra River in Szczecin Prov.; Early Medieval earthwork and settlement and burial-ground from period of Roman influences, 1st-2nd cc. AD (WOŁĄGIEWICZ 1960); 3 bone fragments of hen from Roman period (KUBASIEWICZ, GAWLIKOWSKI 1959); fairly abundant Early Medieval bird remains dated to the 9th-12th cc. from excavations of 1958-59 and 1961 (KUBASIEWICZ, GAWLIKOWSKI 1962; NOGALSKI 1981). [CED]

Charzykowy, village in Wysocyzna Krajeńska, Bydgoszcz Prov.; earthwork from the 8th-10th cc.; 2 sites distinguished during excavations in 1967-1974 SOBOCIŃSKI (1980a) - bird remains found only at **Site No 1** (WALUSZEWSKA-BUBIEŃ 1977a). [CHA]

Chełm-Bielawin, town in E. Poland; materials from excavations in the area of a tower and its surroundings, dated to the 7th-9th and 12th-14th cc.; numerous remains of domestic birds examined by NOGALSKI and KOSIŃSKA (in press a). [CHB]

Chmielno, village in Gdańsk Prov.; Early Medieval earthwork dating back to the 10th-13th cc. (SOBOCIŃSKI 1979b); not numerous bird remains listed by WALUSZEWSKA-BUBIEŃ (1984). [CHM]

Chojnice, town in Wysocyzna Krajeńska, Bydgoszcz Prov.; excavations in 1967-1974; animal remains from **Site No IV** (including birds) dated to the 13th/14th cc. (KRANZ 1976; SOBOCIŃSKI 1980a; WALUSZEWSKA-BUBIEŃ 1977a). [CHO]

Ciasna Cave (Jaskinia Ciasna) in close vicinity to the Ojców National Park near Kraków; single bird bone found during excavations in 1968-1969 and dated to the Vistulian (BOCHEŃSKI 1974b). [C: CIA]

Ciechanów, provincial capital in N. Poland; excavation in inner bailey and by gateway of Medieval castle; abundant bird remains dated to the 15th-17th cc. studied by NOGALSKI and KOSIŃSKA (in press b). [CIE]

Człuchów, town in Słupsk Prov.; excavations at Zamek Wysoki (High Castle) in 1964-1965; animal remains dated to the 14th-17th cc.; 297 fragments of birds were found (NOGALSKI, SAŁACIAK 1990). [CZL]

Ćmielów, town in Tarnobrzeg Prov.; Late Neolithic site on Gawroniec Hill; settlement of the Funnel Beaker Culture; excavations in 1947-1948 and 1950; animal remains

(domestic mammals mainly) very numerous - very few bird fragments (KRYSIK 1950a, 1951/52). [CMI]

Daleszyn, village in Leszno Prov.; lowland earthwork in hollow, in Obra valley, dated to the 8th-10th (11th) cc. (HILCZERÓWNA 1960); excavation of 1955; not very many remains, mainly of domestic animals, including 3 fragments of hen (SOBOCŃSKI 1960b). [DAL]

Dąbki, village in Koszalin Prov.; excavation of 1983 in the area of a Mesolithic-Neolithic settlement (**Site 9**) dating from the 4th millennium BC; 33 bird fragments altogether (SOBOCŃSKI 1984, 1986). [DAB]

Dąbrówka, village in Poznań Prov.; conical earthwork in Wiryńka River valley, dated to the 12th/13th and the beginning of the 14th cc.; excavations in 1972 and 1973; 30 fragments of domestic and 11 of wild birds (BENECKE 1986). [DBR]

Demblin, village on the right bank of the Vistula River, in Tarnów Prov.; excavation of 1963; 2 bird fragments from Early Middle Ages and later times (BOCHEŃSKI 1974b). [DEM]

Dobieszewice, village in Bydgoszcz Prov.; dating: late La Tène, 25 BC - 40 AD¹; excavation of 1970; only 6 bird fragments from **Site 2** (SOBOCŃSKI 1976c). [DOB]

Dobrzyń, town on the Vistula River in Bydgoszcz Prov.; excavations at Medieval site Góra Zamkowa; materials dated to the 9th-13th and 14th-15th cc.; (SOBOCŃSKI 1987); not numerous bird remains listed by WALUSZEWSKA-BUBIEŃ (1984). [DBN]

Dolne Małe w Okopach Rockshelter (Schronisko Dolne Małe w Okopach) in Prądnik Valley in Ojców National Park near Kraków; investigations in 1898 and 1899; no stratigraphical data (Vistulian-Holocene); a small number of bird bones (CZARNOWSKI 1902). [C: DMO]

Dużej Sowy Cave (Jaskinia Dużej Sowy), in the left slope of the Kobylańska Valley near Kraków; exceedingly abundant bone material from the Holocene (BOCHEŃSKI et al. 1983); whole of bird bone material described by BOCHEŃSKI and TOMEK (1991). [C: DUS]

Dzwonnica Cave (Jaskinia Dzwonnica) in village of Kusięta in Towarne Mts., Częstochowa Prov.; Holocene bone materials collected from bottom surface in 1961, housed in the Museum of Częstochowa; 2 bird bones (BOCHEŃSKI 1974b). [A: DZW]

Gardziec, Early Medieval settlement on lake Światowskie, in Szczecin Prov.; dating: the 9th-13th cc.; excavation in 1955; rich bone material with 15 fragments of Domestic Hen only (KUBASIEWICZ 1959). [GAR]

Gdańsk, provincial capital in N. Poland (several sites): [a] **Pomeranian-Polish motte-and bailey** from the 13th c.; bone material from excavation of 1948 (JAWORSKI 1952), [b] **Old City** - bone material from excavation of 1950-1951 in Rycerska St., in the vicinity of the Radunia mouth into the Motława: fragment of Early Medieval motte from the 12th and 13th cc. (KRYSIK 1956a); complete 11th-13th-century bone material excavated in 1948-1954 (KRYSIK 1968), [c] **fishermen's and craftsmen's quarter** (12th-13th cc.); material from main excavation pit (1950-1951); bird remains only mentioned (KRYSIK 1955), [d] **Site No 1**, inside embankments of old motte; 4 pits of 1957-1958 with many settlement horizons dating from the 10th to the beginning of the 14th cc.; abundant bird remains (NOGALSKI 1984). [GDA]

¹Acc. to Prof. KRUK (oral comm.) these dates correspond with the early period of Roman influences.

Giecz, village in Poznań Prov.; culture horizons of a motte-and-bailey from the 9th to the 1st half of the 13th cc.; total of 234 bird fragments from excavations in 1948-1975 (KRUPSKA 1986). [GIE]

Gniew, town in Gdańsk Prov.; excavations of 1975-1978 at [a] **Site 2** in the Old Town; animal remains found in sediments divided into 6 phases from the 13th to the 19th cc.; bird bones fairly numerous (NOGALSKI 1992a), [b] **Site 3** - castle-town; materials excavated in 1980-1983 come from 6 phases from the 9th to the beginning of 20th cc.; numerous bird remains (NOGALSKI 1992b), [c] **Site 5** - motte and Early Medieval settlement dating from the 9th-11th cc.; not numerous bird remains (NOGALSKI 1992c). [GNW]

Gniezno, town in Poznań Prov.; materials from the 11th and 12th cc. excavated in the surroundings of the cathedral in 1936-1938, studied by NIEZABITOWSKI LUBICZ- (1937, 1939); excavation in cathedral precinct: bird remains from the 7th-20th-century sediments distinctly separated stratigraphically, collected at **Sites 5, 14, 37, 43 and 47** in 1964 (WALUSZEWSKA-BUBIEŃ 1969b; SOBOCIŃSKI, SCHRAMM 1972); materials from the 11th-13th cc. collected at **Sites 7a, 15, 47 and 51** in 1962 and 1966 (SCHRAMM 1974b). [GNI]

Gorenicka Cave (Jaskinia Gorenicka; Jaskinia w Gorenicach - ROEMER (1883); J. Paczałowicka - OSSOWSKI (1880)) in the area of the village Paczałowice in Krzeszowice Range, Kraków Prov.; excavation in the 19th c.; lack of stratigraphy (Vistulian-Holocene); bird remains mentioned by ROEMER (1883). [C: GOR]

Gorzędziej, village in Gdańsk Prov.; materials from excavation in 1959; Medieval bird remains (9th-14th cc.) described by NOGALSKI (1979b) [GRZ]

Gronowo, village in Toruń Prov.; excavation in the area of a motte and outer bailey from the 7th to 14th cc.; not numerous identified bird remains from outer bailey described by MAKOWIECKI and LESZCZYŹYŃ (1990). [GRO]

Grota Poszukiwaczy Skarbów, a cave in Kościeliska Valley, in the Western Tatra Mts; about a dozen bird bones found on the surface in 1922 are stored at the Tatra Museum (TOMEK 1989). [D: PSK]

Gródek Nadbużny, Neolithic settlement near Hrubieszów in Zamość Prov.; excavations in 1952 and 1954-1957 at a settlement of the Funnel Beaker Culture, Site 1C, Horodysko, radiocarbon dated at 3100±160BC; description of locality (GUMIŃSKI 1989); a few bird bones mentioned by KRYSIAK (1956d) and GUMIŃSKI (1989). [GNB]

Gwieździn, village in the Wysoczyzna Krajeńska, Słupsk Prov.; excavations in 1967-1974; materials from Early Medieval earthwork, divided into two parts: I - from the 9th-10th cc. and II - from the 11th-12th cc. (SOBOCIŃSKI 1980a); bird remains not numerous (WALUSZEWSKA-BUBIEŃ 1977a). [GWI]

Hlina, undefined locality at the Tatra foothills (there are several places of this name on both the Polish and the Slovakian side of the frontier); Late Holocene (?) bird remains stored at the Tatra Museum, described by TOMEK (1989). [not plotted on the map]

Hłudno, village, in Krosno Prov.; outcrop of menilite shales dated to the Upper Oligocene (MN 1), pelagic sediments (BOCHEŃSKI, SZYMCHYK 1979; BOCHEŃSKI (in print); print of legs of a small bird not described so far. [HLU]

Inowrocław, town in Bydgoszcz Prov.; [a] **6 exploration pits in town area**, made in 1966-1970 and varying in chronology from the period of the Lusatian Culture (900-600 BC), through that of Roman influences to the Late Middle Ages; bird remains divided according to the sites (WALUSZEWSKA-BUBIEŃ 1977c); [b] **Inowrocław - Mątwy sub-urb**, materials collected in 1969-1974 from a settlement of the Lengyel Culture period, from 3800-3700 to 2700-2600 BC - 1 bird bone (SOBOCIŃSKI 1979). [INO]

Iwanowice, village in Kraków Prov.; archaeological site on a loess hill called "Babia Góra", dated to the boundary between the Neolithic and Bronze Age (ca. 3800 BP); excavations in 1969; 3 fragments of birds (BOCHEŃSKI 1974b). [IWA]

Janikowo, village in Bydgoszcz Prov. (flood-land of the Pakość dam lake); period including Przeworsk Culture or late La Tène² and phase B1 of Roman times (= 1st c. BC to ca 80 AD) (SOBOCIŃSKI, MAŃKOWSKI 1975); bird remains described by WALUSZEWSKA-BUBIEŃ (1975a). [JAN]

Jankowo Wielkopolskie, village in Poznań Prov.; earthwork dating from the Hallstatt period; not numerous bird remains coming from the Early Medieval deposits (WALUSZEWSKA-BUBIEŃ in litt.) are listed by WALUSZEWSKA-BUBIEŃ (1984). [JNW]

Jedwabno, village in Toruń Prov.; Early Medieval earthwork; excavation in 1968; bird remains from layers III, 7th-9th cc., and II, 10th-11th cc. (SOBOCIŃSKI 1980a). [JED]

Jeziorko, village in Suwałki Prov.; several settlement horizons from the end of the Bronze Age (Hallstatt period)³ to the Early Middle Ages; 1 bird fragment in materials from the early Iron Age (KRYSIK 1958). [JEZ]

Józefów, village in Pardysowskie Mts., Zamość Prov.; rich vertebrate and molluscan fauna from a warm period of the Holocene 6000-4500 BP (KOWALSKI et al. 1963)⁴ was found in a fissure of a quarry; 4 bird fragments (BOCHEŃSKI 1974b). [JOZ]

Kadzielnia, a hill in the town of Kielce; several fissures filled with breccia containing bone material; the remains from Kadzielnia 1 come from Plio-Pleistocene boundary (MN 17 to early Biharian) (BOCHEŃSKI in print); several bird fragments described by JÁNOSSY (1974). [KAD]

Kalinów, village in Kraków Prov., adjoining to the northern part of the Ojców National Park; ROEMER (1883) mentions a single bird bone, without giving the stratigraphy of and any data about the locality - it may possibly be one of the caves or rockshelters in the Prądnik Valley, between Pieskowa Skała and Grodzisko. [not plotted on the map]

Kaldus, village in Toruń Prov.; excavations in 1967-1968; bird material from two sites: [a] **No 6**, in Early Medieval motte-and-bailey and [b] **No 3**, in outer bailey close to the earthen rampart; birds from Early Medieval layers, 9th-12th cc., Hallstatt period, 650-450 BC, and early La Tène 400-250 BC, studied by WALUSZEWSKA-BUBIEŃ (1980a). [KAL]

²Acc. to Prof. KRUK (oral comm.) the dates correspond with the periods of the Przeworsk Culture and Roman influences - the La Tène period preced 200 BC.

³Acc. to the present-day classifications the Hallstatt period belongs to the Iron Age (KRUK oral comm.)

⁴The climatic optimum of the Holocene occurring in the Atlantic, acc. to the now accepted classification, took place between 7500 and 5250 BP (HAQ & VAN EYSINGA 1987)

Kamień Pomorski, town in Szczecin Prov.; bird remains from Early Middle Ages (10th-13th cc.) collected in three exploratory pits o1958: **1** and **2** in outer bailey, **11** in motte (NOGALSKI 1979a). [KMP]

Kaszowo, village in Wrocław Prov.; Early Medieval earthwork; materials from excavations in 1967-1969; scarcely 8 bird fragments from the first phase of settlement in the 2nd half of the 10th c. (SOBOCIŃSKI 1973b). [KSZ]

Kielniki 3B, carst fissure at village of Kielniki, Częstochowa Prov.; bone remains from the Upper Pliocene (MN 17); very few bird fragments (BOCHEŃSKI 1991). [A: KIN]

Klementowice, village in Lublin Prov.; excavations of 1950-1954 in the area of a settlement and burial-ground of the Funnel Beaker Culture (Neolithic) (KOWALCZYK 1957); sparse bird remains (KRYSIAK 1957). [KLE]

Kobylniki, village in Kielce Prov.; settlement from Hallstatt-La Tène period, 2600-2400 BP; excavation of 1969 at **Site 2**; 714 animal fossils including only 1 bird bone (SOBOCIŃSKI 1976b). [KOB]

Koło, town in Konin Prov.; excavations in 1977-1983 at a settlement dated to the 14th-18th cc.; bird remains described by KRUPSKA (in press b). [KLO]

Kołobrzeg, town in Koszalin Prov.; materials from **Site No 1**, in the southern part of an Early Medieval motte-and-bailey dug up in 1954-1958; 7 layers distinguished cover a period from 9th to 13th c.; abundant bird remains (NOGALSKI 1984). [KOL]

Konary, village in Bydgoszcz Prov.; Przeworsk Culture settlement, **Site No 28**; 10 fragments of birds (SOBOCIŃSKI 1987b). [KON]

Kopana Cave (Jaskinia Kopana), in village of Kusięta in Twarne Mts., Częstochowa Prov.; bone materials collected in Holocene humus layer stored in Częstochowa Museum; several tens of bird bones (BOCHEŃSKI 1974b). [A: KOP]

Kościelec Kujawski, village in Bydgoszcz Prov.; excavations in 1969- 1974; Lengyel Culture settlement, radiocarbon dated to 3265 ± 160 BC; a few bird remains (SOBOCIŃSKI 1979). [KOS]

Kotlin, village in Kalisz Prov.; excavations in 1961-1966 at a Lusatian Culture settlement from the Hallstatt C period (700 BC); 10 bird fragments only (SCHRAMM 1974a). [KOT]

Kozi Grzbiet, hill in the Świętokrzyskie Mts., Kielce Prov.; numerous animal remains in the breccia filling of a karst fissure, dated to the Middle Pleistocene (the Mindel I/Mindel II interstadial); only a few bird fragments (BOCHEŃSKI 1984). [KZG]

Koziarnia Cave (Jaskinia Koziarnia; Kozarnia - ROEMER (1883)), in Ojców National Park near Kraków; cave in small Koziarnia Valley opening into Sąspowska Valley, explored as early as the 19th c. (ROEMER 1883); earth heap left after those excavations (layers 1a, b and c from 1956-1963); description and stratigraphy in paper by CHMIELEWSKI et al. (1967); abundant bird remains collected in layers from the Eemian Interglacial to the Moerschoofd Interstadial of the last glaciation and from the Holocene (BOCHEŃSKI 1974b). [C: KOZ]

Krakowska Cave (Jaskinia Krakowska; Höhle von Czajowice - ROEMER (1883)) in Ojców National Park near Kraków; under the joint name "die Höhlen von Czajowice"

ROEMER (1883) mentions also two small caves, situated close to each other, KOWALSKI (1951) however failed to identify them; excavation of 1872; lack of stratigraphy but the description may suggest the Holocene age of materials (ROEMER 1883); 1 bone of *Capercaillie*. [C: KRA]

Krępsk, village on Wysoczyzna Krajeńska, Słupsk Prov.; excavations in 1967-1974; earthwork from 8th-10th cc. (SOBOCIŃSKI 1980a); not very many bird remains (WALUSZEWSKA-BUBIEŃ (1977a). [KRP]

Kruszwica, town in Bydgoszcz Prov.; [a] **Site No 4**, 10th-14th cc.; numerous bird remains (SOBOCIŃSKI 1964); [b] **Site No 9**, materials from several pits (on Old Market and Poznańska St.) dated jointly to 6th-12th cc.; bird remains studied by WALUSZEWSKA-BUBIEŃ (1965b); very abundant remains of *Anatidae* described by KRUPSKA (1985). [KRU]

Krzyszawice, village near Kraków, included in Nowa Huta town district; an archaeological site from the early Bronze Age (ca. 3800-3600 BP) uncovered in building excavations in 1969; 5 bird fragments (BOCHEŃSKI 1974b). [KRZ]

Legnica, provincial capital in SW Poland; excavations in the area of the Castle and Old Town; Early Medieval material from 5 archaeological pits of 1958-64 and 1970-73; abundant bird remains (WYROST et al. 1980). [LEG]

Lembarg, village in Toruń Prov.; earthwork, end of 10th to mid-11th cc.; exploration of 1987; all together 7 bird fragments (MAKOWIECKI 1990). [LEM]

Lower Cave in Sobczański Gorge (Jaskinia w Wąwozie Sobczańskim Dolna), situated in the left wall of the Sobczański Gorge in the Trzy Korony massif in the Pieniny Mts.; explored in 1981; it contains postglacial (Holocene) materials, mainly molluscs and mammals; only 1 bird from layer 3 (ALEXANDROWICZ et al. 1985). [SOB]

Lubicz, village on the Drwęca River in Toruń Prov.; material from excavation of 1935 in the area of an Early Medieval settlement, 7th-10th cc.; scarcely 3 bird bones (NIEZABI-TOWSKI LUBICZ- 1949). [LUB]

Lubiń, village in Leszno Prov.; excavations in the area of the Benedictine Abbey; 6 phases were distinguished in the excavation, ranging from the 2nd half of the 11th c. to the 18th c.; total of 829 bird bones referred to particular phases (KRUPSKA 1991). [LBN]

Lubiszewo, village in Gdańsk Prov.; materials from excavation of 1971 in Early Medieval earthwork dated to 9th-10th cc. (SOBOCIŃSKI 1979b); very few bird remains are listed by WALUSZEWSKA-BUBIEŃ (1984) together with materials from Pelplin. [LBS]

Łącko, village in Bydgoszcz Prov.; Early Medieval site **No 5**; 53 fragments of birds (MAKOWIECKI 1986). [LCK]

Lyszkowice, village in Sieradz Prov.; excavations in 1964-1976 at Przeworsk Culture settlement; 11 bird fragments from site **No 1** (SOBOCIŃSKI 1981). [LSZ]

Mała Nieszawka, village in Toruń Prov.; excavations in the Teutonic Knight's castle in 1978-1988; abundant bird remains collected in excavations referred to the 14th and the first half of 15th cc., treated jointly (NOGALSKI 1991; NOGALSKI et al. 1992). [MLN]

Mamutowa Cave (Jaskinia Mamutowa, J. Wierchowska Dolna; Jaskinia Mamuta - ZAWISZA (1876); La Caverne de Mammouth - ZAWISZA (1878); Die untere Höhle von Wierchow (Mammuth-Höle) - ROEMER (1883)) in the village of Wierchow near

Kraków, in the left slope of the Kluczwoda Valley; explored by ZAWISZA in 1873-1879; bird remains from those excavations were given by ZAWISZA (1876, 1878), ROEMER (1883) and NIEZABITOWSKI LUBICZ- (1932); later excavations, of 1961-1970, supplied very abundant bird remains from the layers of the last interstadial and upper pleniglacial of the Vistulian (BOCHEŃSKI 1974b) and the Holocene (BOCHEŃSKI 1981). [C: MAM]

Maszycka Cave (Jaskinia Maszycka) in Ojców National Park near Kraków; bird bones described by OSSOWSKI (1885) from layer c (deeper), acc. to the author "beginning of the Neoithic", which corresponds with the Magdalenian Culture (NADACHOWSKI et al. 1989b: Late Pleistocene ?) and layer b (overlying) described by the author as the Neolithic. [C: MAS]

Mietlica, village on eastern bank of Lake Gopło, Bydgoszcz Prov.; materials from excavations in an earthwork in 1977-1979; Early Middle Ages: 7th-11th cc.; bird remains studied by JERNIGAN and SOBOCIŃSKI (1979), JERNIGAN MALONEY and SOBOCIŃSKI (1983a, 1983b). [MTL]

Międzyrzecz Wielkopolski, town in Gorzów Wielkopolski Prov.; Medieval archaeological site; animal bone remains, including those of birds identified by WYROST (MS). [MDZ]

Milicz, town in Wrocław Prov.; excavation of 1953 in Early Medieval motte-and-bailey; animal remains from two culture horizons: Early Iron Age and Early Middle Ages; mainly mammals - birds 0.9% (KUBASIEWICZ 1957a, b). [MIL]

Moroczyn, village in Hrubieszów rural district, Zamość Prov.; a few bird bones found in 1985 in graves from the late period of Roman influences (BOCHEŃSKI et al. 1987). [MOR]

Mrówki, village in Wilczyn rural district, Konin Prov.; excavation of 1971-1972 in earthwork from about 1200 AD; 14 bird fragments from various layers, treated however all together (SOBOCIŃSKI, MAKOWIECKI 1987). [MRK]

Mylina Cave (Jaskinia Mylina) in Kościeliska Valley, Western Tatra Mts; a dozen bird bones from the Holocene, found on the surface of sediments in 1918 and stored at the Tatra Museum (TOMEK 1989). [D: MYL]

Myślibórz, town in Gorzów Wielkopolski Prov.; earthwork dating from about 800 AD to the second half of 13th c., on the bank of a lake; a total of 243 bird fragments referred to several excavation holes (WYROST, MOLENDĄ 1987). [MYS]

Na Łopiankach Cave (Jaskinia na Łopiankach) in Mników Valley (village of Mników) near Kraków; exploration in 1880; sediments divided into three layers; scarce bird remains in layer "b" (OSSOWSKI 1881); datation uncertain. [C: LOP]

Nad Galoską Cave (Jaskinia nad Galoską), in a rock on left Vistula bank at village of Piekary near Kraków; excavation in 1880; bird remains found in the first "newer" layer (and so Holocene - the second layer contained remains of a "diluvial fauna") described by OSSOWSKI (1881). [GAL]

Nad Mosurem Starym Duża Cave (Jaskinia nad Mosurem Starym Duża) in Ojców National Park near Kraków, on left bank of river Prądnik; excavations in 1967-1969; bone materials from 5 layers dated to the interval between the Vistulian pleniglacial and recent times; 51 bird taxa identified by T. TOMEK (NADACHOWSKI et al. 1989a). [C: MOS]

Nakło, town on the River Noteć in Bydgoszcz Prov.; excavation in Early Medieval earthwork from 8th-12th cc.; several dozen bird fragments (WALUSZEWSKA-BUBIEŃ 1975c). [NKO]

Niedźwiedz, village in Kraków Prov.; Neolithic archaeological site of Funnel Beaker Culture; about 20 fragments of small bird, belonging to 1 individual were found in 1969 (BOCHEŃSKI 1974b). [NDZ]

Nietoperzowa Cave (Jaskinia Nietoperzowa, J. Jerzmanowicka; Die Höhle von Jerzmanowice (Fledermausgrotte) - ROEMER (1883); J. Jerzmanowska - KOZŁOWSKI (1922)) by the village of Jerzmanowice near Kraków; primarily (19th c.) deposits with bones were exploited as fertilizer; from 1872 excavations carried out by ROEMER, who mentions also birds (ROEMER 1883); remaining sediments dug out, with stratigraphy maintained in 1956-1959; bird remains from this excavation, dated to a period from the Eemian Interglacial to the last interstadial of the Vistulian, studied by BOCHEŃSKI (1974b). [C: NIE]

Oblazowa Mt., rock in Białka Tatrzańska village, forming a Gorge of Białka Stream, Nowy Sącz Prov.; 2 sites - rich paleontological material from rock fissure (site - **Oblazowa 2**), radiocarbon dated at 33430 ± 1230 years BP, i.e. Denekamp Interstadial; abundant bird remains studied by T. TOMEK (NADACHOWSKI et al. 1993). [OBL]

Ogrodzieniec, village in Katowice Prov.; ruined castle and rests of settlement around it, dated to 16th-17th cc.; numerous animal remains excavated in 1959; bird bones not numerous (KUBASIEWICZ, ŁABĘCKI 1967). [B: OGR]

Okiennik Cave (Jaskinia Okiennik) near village of Skarzyce in Katowice Prov.; not numerous Pleistocene bird bones mentioned by KRUKOWSKI (1939) [B: OKI]

Okopy Wielka Dolna Cave (Jaskinia Okopy Wielka Dolna; J. Okopy Wielka - CZARNOWSKI (1901)) in Ojców National Park near Kraków; sediments explored at the end of 19th c. by CZARNOWSKI, who described the cave and the results of excavations; bone remains mainly of Holocene origin, identified by J. TUR, contain only 1 bird species (CZARNOWSKI 1901). [C: OKP]

Opole, provincial capital on the River Odra; materials from Early Medieval exposure on Ostrówek, dating from 10th-13th cc.; very numerous bird fragments collected in 1953 (WALUSZEWSKA-BUBIEŃ 1965a, 1973), in materials of 1964-1977 bird remains are also very abundant (WALUSZEWSKA-BUBIEŃ 1982). [OPO]

Otomin, village in Gdansk Prov.; Early Medieval earthwork dated to 9th-10th cc.; only 1 bird fragment (KUBASIEWICZ 1965). [OTO]

Pelplin-Maciejewo, town in Gdańsk Prov.; not very ample material of bones from excavation in the area of an Early Medieval (8th-9th cc.) earthwork (SOBOCIŃSKI 1979b); WALUSZEWSKA-BUBIEŃ (1984) mentions several bird fragments together with those found in nearby Lubiszewo. [PEL]

Piekary and Wola Piekarska in Dobra rural district, Konin Prov.; 2 earthworks about 2 km apart; datings: Piekary - close of 14th c., Wola Piekarska - beginning of 15th c.; in publication bird fragments (5 altogether) not divided between sites (SOBOCIŃSKI, KRUSZONA 1990). [PIE]

Pod Sokolą Cave (Jaskinia Pod Sokolą) near Olsztyn, Częstochowa Prov.; bone materials housed at Częstochowa Museum were collected from the surface of a funnel at the end of the cave in 1968; 1 Holocene bird fragment (BOCHEŃSKI 1974b). [A: SOK]

Poznań, provincial capital in Central Poland (several sites): [a] **Garbary 75/77**, results of excavations of 1970-1971 at Early Medieval site No 4; a total of 261 bird fragments (SOBOCIŃSKI 1973a; WALUSZEWSKA-BUBIEŃ 1977d), [b] **42 and 43 Old Market Square** (Stary Rynek): results of investigation of 1982-83 from various layers in 4 excavation pits dated to 12th-18th cc.; total of 251 bird fragments - remains referred to particular layers (KRUPSKA 1987a; SOBOCIŃSKI 1987c), [c] **48 Old Market Square** (Stary Rynek), excavations in 1976-1978; bone material from 4 phases, 13th-19th cc., divided to particular periods (NOGALSKI 1991a), [d] **10 Ostrów Tumski**, excavations of 1946; 16 layers distinguished: from before 1100 to the present time (ŻAK 1961); 2 bird bones from layers IV (1450-1500) and IIb (1500-1600) (SWIEŻYŃSKI 1961), [e] **17 Ostrów Tumski**, excavations of 1953-1954; 7 layers distinguished, 10th-19th cc. (MALINOWSKA 1961); 27 bird fragments from layers covering 11th-13th cc. (CHMIELEWSKI 1961a), [f] **77 Krańcowa St (3 Mińska St)**, excavations in 1932-1934 and 1950; not very abundant bone material from investigation in 1950, ranging from 4th-20th cc. (CHMIELEWSKI et al. 1958). [POZ]

Pruszcz Gdański, town in Gdańsk Prov.; materials from excavation of 1971 in the area of an Early Medieval (10th-11th cc.) unembanked settlement (SOBOCIŃSKI 1979b); not numerous bird remains are listed by WALUSZEWSKA-BUBIEŃ (1984). [PRG]

Przeworno, village in Wałbrzych Prov.; terrestrial deposits containing rich animal remains, in an abandoned quarry; dated to the Middle Miocene (MN 7) (BOCHEŃSKI in print); a few bird fragments (BOCHEŃSKI 1987). [PRZ]

Radacz, village in Koszalin Prov.; Early Medieval earthwork explored in 1962; fairly numerous bird remains described by WALUSZEWSKA-BUBIEŃ (1967). [RAD]

Raj Cave (Jaskinia Raj), in Malik hill, by village of Szewce, Kielce Prov.; during excavations in 1967-1969 eleven layers were distinguished and dated to the Brörup Interstadial, lower pleniglacial of the Vistulian and the Holocene; numerous bird remains were found in all layers (BOCHEŃSKI 1974b). [RAJ]

Rębiełice Królewskie 1A, 2, village in Częstochowa Prov.; karst fissures containing bone breccia; very rich bone material dated to the Upper Pliocene (MN 16); abundant bird fauna (JÁNOSSY 1974; BOCHEŃSKI 1991). [RBK]

Rockshelter above Niedostępną Cave (Schronisko nad Jaskinią Niedostępną), in Koziarnia Valley in Ojców National Park near Kraków; excavations of 1968-1969; not numerous bird fragments obtained from layers dated to the lower pleniglacial of the last glaciation and from the upper pleniglacial to the Late Holocene (BOCHEŃSKI 1974b). [C: NDS]

Rockshelter at Zalas (Schronisko w Zalasie) on northern slope of Tenczyński Hummock, village of Zalas, Kraków Prov.; excavation in 1977; bird remains from layers 7 and 9 dated to decline of the Pleistocene (BOCHEŃSKI et al. 1985). [C: ZAL]

Rockshelter below Tunel Wielki (Schronisko pod Tunelem Wielkim) in the same rock as Tunel Wielki in Ojców National Park near Kraków; in 1969 during preliminary

exploration 9 bird fragments were collected from Holocene surface layers (BOCHEŃSKI 1974b). [C: PTW]

Rockshelter in Biały Stream Valley (Grotta w Dolinie Białego - TOMEK (1989)), one of several rock-shelters in the valley of the Biały (White) Stream, Central Tatra Mts. (the label of specimens at the Tatra Museum does not contain more precise data); 57 bird bones, most probably coming from the Late Holocene, collected on the surface by M. KARŁOWICZ before 1909 (TOMEK 1989). [D: DBI]

Rockshelter in Puchacza Skala (Jaskinia Puchacza - CZARNOWSKI (1904), Schronisko w Puchaczaj Skale - KOWALSKI et al. (1965)) at village of Prądnik Czajówicki within the bounds of Ojców National Park near Kraków; archaeological studies by CZARNOWSKI (1904) in 1899 - birds mentioned from Holocene sediments; excavations of 1963 concerning "formation III" of sediments from lower pleniglacial of Vistulian (KOWALSKI et al. 1965); bird bones few in number (BOCHEŃSKI 1974b). [C: PUS]

Rockshelter in Ruska Skala (Schronisko w Ruskiej Skale) near Podlesice, village in Częstochowa Prov.; part of bird bones studied by KRYSIAK (1956c) - they come from a culture horizon (close of Pleistocene ?); the other mentioned bones of small birds and mammals have not been studied. [B: RUS]

Rockshelter in Żytnia Skala (Schronisko w Żytniej Skale) at Bębło, village in Kraków Prov.; 2 excavation pits exposing layers dating from a period of the lower pleniglacial of the Vistulian to the Late Holocene (KOWALSKI et al. 1967); bird fragments, few in number, come from most of the layers (BOCHEŃSKI 1974b). [C: ZYT]

Ryczyn, a set of Early Medieval sites: earthworks of Ryczyn Duży and Ryczyn Mały, 3 settlements and a burial-ground on the left bank of the River Odra between Oława and Brzeg in Wrocław Prov. (KRAMAREK 1969); 29 bird fragments in materials of 1962; most of them from 9th - 10th-century layers (SOBOCIŃSKI 1960a; BUBIENIOWA 1969). [RYC]

Rzucewo, village in Gdańsk Prov.; Neolithic settlement on Puck Bay; bone materials found in 1894 were partially (fish and mammals) described by German authors; bones excavated in 1927 (among them 2 bird species) described NIEZABITOWSKI LUBICZ- (1933). [RZU]

Sadlana Cave (Jaskinia Sadlana) in Koziarnia Valley in Ojców National Park near Kraków; excavations carried out by ROEMER (1883) in the 2nd half of the 19th c.; he described several bird fossils; lack of stratigraphy (Late Pleistocene - Holocene). [C: SAD]

Samborzec, village on Gorzyczanka River, in Sandomierz Prov.; archaeological site dated back to late period of Roman influences; in 1963 1 bird bone was found (BOCHEŃSKI 1974b). [SAM]

Santok, village in Gorzów Wielkopolski Prov.; Early Medieval motte and outer bailey in the fork of the rivers Warta and Noteć, dating from 7th-13th cc.; very abundant bird remains mentioned by WALUSZEWSKA-BUBIEŃ (1984), and *Anatidae* described by KRUPSKA (1985). [SAN]

Sasiadka, village in River Por valley in Zamość Prov.; Early Medieval earthwork, the remainder of the Sutiejsk motte-and-bailey, existing here in 1031-1205; material from 15-year excavations - several hundreds of bird fragments (KRYSIAK 1966). [SSD]

Sąspowska Zachodnia Cave (Jaskinia Sąspowska Zachodnia) in the village of Sąspów near Ojców National Park, in Kraków Prov.; not very numerous bird remains from layers dated to the late glacial of the Vistulian and Holocene (BOCHEŃSKI 1988). [C;SAS]

Siemowo, village in Leszno Prov.; Early Medieval earthwork on Obra River, 7th/8th - 10th cc.; materials collected in 1959-1960; a slight number of birds (GODYNICKI, WILAND 1967). [SIE]

Ślup, village in Wrocław Prov.; settlement from period of Roman influences, 2nd-3rd cc. AD; materials from 1959, including only 3 bird fragments (SOBOCIŃSKI 1961a). [SLU]

Ślupca, village in Konin Prov.; earthwork of Lusatian Culture, early Iron Age, c. 2500 BP; single Domestic Hen bone (CHMIELEWSKI 1958). [SLP]

Smuszewo, village in Bydgoszcz Prov. (*); Early Medieval site; not numerous bird remains listed by WALUSZEWSKA-BUBIEŃ (1984). [SMU]

Sopot, town in Gdańsk Prov.; material from excavation of 1966-1968 in Early medieval earthwork from 8th-10th cc.; a small number of poorly preserved bird remains SOBOCIŃSKI (1991). [SOP]

Stare Drawsko, village in Koszalin Prov.; bone material from excavations inside castle walls; abundant bird remains from Early Middle Ages to Modern Ages (KRUPSKA, WALUSZEWSKA-BUBIEŃ 1984; KRUPSKA 1985). [STD]

Stary Zamek, village in Wrocław Prov.; Early Medieval settlement, tentatively dated to 8th-9th cc.; excavation in 1973-1974; among very numerous bone remains only 3 belonged to birds (CHRZANOWSKA 1977). [STZ]

Stolno, village in Toruń Prov.; excavations at **Site No 2** of Linear Band Pottery Culture; numerous animal remains, including only 2 bird fragments (MAKOWIECKI 1987). [STL]

Strachów, village in Wrocław Prov.; Early Medieval earthwork on stream Czarna Woda; only one bone of bird (Domestic Hen) from layer A containing mixed materials of 7th-20th cc. (KUBASIEWICZ 1967). [STR]

Stradów, village in Kielce Prov.; Early Medieval settlement dated to 7th-11th cc.; bone material from excavations in 1957-1963; 67 remains of birds (TOMEK 1984). [SRD]

Strzyżów, village on Bug River, in Zamość Prov.; Strzyżów Culture settlement, dated to ca 2100 BC (GŁOSIK 1968)⁵; bone material (containing also birds) coming from excavation in 1961 described by NOWAK (1968). [STW]

Szamotuły, town in Poznań Prov.; results of studies carried out at Górkis' Castle (Zamek Górków) in 1981-1983; 4 settlement phases were distinguished from the 15th to 20th cc. (SOBOCIŃSKI, MAKOWIECKI 1987); a total of 76 bird fragments from, phases I, III and IV (KRUPSKA 1987b). [SZA]

Szarlej, village in Bydgoszcz Prov.; settlement **Site No 5** (pits and cabins), generally dated to the period from the 2nd to the 14th c.; 13 bird fragments, 7th-9th cc. (SOBOCIŃSKI 1976a). [SZR]

Szczecin, provincial capital in NW Poland (several sites): [a] **Mścięcino**, excavations of 1954, Early Medieval settlement from 9th-11th cc. (KUBASIEWICZ 1955; NOGALSKI

⁵ At present the Strzyżów Culture is dated at 2000-1800 BC (KRUK. oral commm.)

1980), [b] **Vegetable Marketplace** (Rynek Warzywny), excavations in 1954-1965 at the foot of the Pomeranian Dukes' Castle; 30 layers from 9th-13th cc.; abundant bird remains (NOGALSKI 1984), [c] **Castle** (Zamek), excavations in courtyard (1952) and cellar: material from 13 layers covering a period from the Lusatian Culture to the Early Middle Ages (9th-11th cc.); altogether 17 bird fragments described by SOBOCIŃSKI (1960c); 24 bird fragments from Early Middle Ages mentioned by KUBASIEWICZ (1963). [SZC]

Szczepankowice, village in Wrocław Prov.; barrow of the Unetice Culture (1st period of Bronze Age); excavations of 1960-1961; description of locality (SARNOWSKA 1963); all animal remains (SOBOCIŃSKI 1963b). [SZP]

Szeligi, village in Płock Prov., ca. 14 km SE of the town; Early Medieval motte and settlement dated to 6th-7th cc.; excavations in 1959-1963 (SZYMAŃSKI 1967); bird remains scarce (GODYNICKI 1967). [SGI]

Świecie on Vistula (Świecie nad Wisłą), village in Bydgoszcz Prov.; Medieval settlement of 14th/15th c.; several bird fragments (SOBOCIŃSKI 1968a). [SWW]

Tądów Górny, village in Sieradz Prov.; sediments dated to the Przeworsk Culture; not numerous bird remains were found in excavations of 1979-1982 (SOBOCIŃSKI, MAKOWIECKI 1992). [TDG]

Topolno on Vistula (Topolno nad Wisłą), village in Bydgoszcz Prov. (*); not numerous bird remains from Early Medieval site listed by WALUSZEWSKA-BUBIEŃ (1984). [TOP]

Tunel Wielki Rockshelter (Schronisko Tunel Wielki) in Koziarnia Valley in Ojców National Park near Kraków; 12 bird fragments found in Holocene surface layers of sediments at preliminary examination in 1969 (BOCHEŃSKI 1974b, 1988). [C: TNW]

Tykocin, town in Białystok Prov.; excavation in 1979; archaeological site dated between the second half of the 15th c. and 17th c., in which 3 periods were distinguished; very numerous bird remains divided by given periods (NOGALSKI, KOSIŃSKA 1991). [TYK]

Ujście, town in Piła Prov.; Early Medieval earthwork on the left bank of the River Notec; excavation in 1953 shows 8 settlement layers: 7th-13th cc. + Late Medieval layer + modern deposits (LECIEJEWICZ 1961); very many animal remains, including only 16 fragments of chiefly domestic birds (CHMIELEWSKI 1961b); investigation made in 1961-1963 exposed 23 layers from 10th to 19th cc. (SOBOCIŃSKI 1975); fairly numerous bird remains treated jointly as Early Medieval (WALUSZEWSKA-BUBIEŃ 1975b). [UJS]

Węgiec, village in Bydgoszcz Prov.; **Site 12** - settlement of Late Band Pottery Culture; radiocarbon dating: 3960 ± 10 BC⁶; a few bird fragments only (MAKOWIECKI 1989). [WEG]

Węgry, village in Gdańsk Prov.; materials from 2 phases: older (Lusatian Culture, 2400-2300 BP) and later (Early Medieval motte-and-bailey from 11th-12th cc.); explorations in 1962-1968; 41 bird fragments from both phases (WALUSZEWSKA-BUBIEŃ 1976a). [WGR]

⁶Acc. to Prof. KRUK (oral comm.) the single C14 dating quoted must have been faulty, for the Late Band Pottery Culture began ca 3800 BC.

Węże 1, karst pit in a hill named Węże, near Działoszyn, Sieradz Prov.; rich bone breccia dated to the Early Pliocene (MN 15); bird remains described by JÁNOSSY (1974). [WEZ]

Wiślica, town in Kielce Prov.; emplacement of Early Medieval castle from 10th-13th cc.; materials coming from excavations in 1955-1961; bird remains described by SOBOCIŃSKI (1968b, 1971) and WALUSZEWSKA-BUBIEŃ (1968). [WIS]

Włocławek, town on the Vistula River in Płock Prov.; Early Medieval site of 9th-12th cc.; bird remains described by WALUSZEWSKA-BUBIEŃ (1969a) [WLO]

Wolin, town on the island of the same name in the estuary of the Odra River, Szczecin Prov.; (two sites): [a] **Przedmieście**, (suburb), **Site No 2**, materials from excavation in 1952; 11 layers dated to 10th-13th cc.; bird remains not numerous (KUBASIEWICZ 1956); [b] **Miasto**, (city) situated in the middle of the town; materials excavated in 1953-1955; 21 layers dated to 9th-13th cc.; bird remains very numerous (NOGALSKI 1984). [WOL]

Wrocław, provincial capital in Lower Silesia, SW Poland; (several sites): [a] **Ostrów Tumski**; Early Medieval materials dated to 11th-13th cc., coming from excavations at several sites in 1950-1957; very numerous bird remains described by MYCZKOWSKI (1960, 1962) and WALUSZEWSKA-BUBIEŃ (1971) - these papers deal at least partly with the same material; excavations of 1972-1978 contain materials from 6 chronological layers dated between ca. 950 and the second half of the 13th c.; very numerous bird remains divided among the layers (WALUSZEWSKA-BUBIEŃ 1981); [b] **Wrocław Otłbin** - excavations in 1976-1977 and 1983-1985 at Early Medieval urban sites; not numerous bird remains from 11th-12th cc. described by KRUPSKA (in press a). [WRC]

Za Murem Cave (Jaskinia Za Murem) in the Czerwone Wierchy massif in the Western Tatra Mts.; 1 bird bone (probably of Late Holocene age) was found on the floor during a speleological exploration (BOCHEŃSKI 1974b). [D: MUR]

Zalesiaki 1A, village on the left bank of the Warta River, in Sieradz Prov.; fauna A from **Site No 1**, dated to the Early Pleistocene (Biharian), contains all vertebrates excluding fish; birds are represented by 1 bone (BOCHEŃSKI 1989). [ZLS]

Zamkowa Dolna Cave (Jaskinia Zamkowa Dolna) inside castle walls at Olsztyn, Częstochowa Prov.; Pleistocene material of bones collected here is in the possession of the Museum at Częstochowa; several tens of bird fossils (BOCHEŃSKI 1974b). [A: ZAM]

Zbójecka Cave (Jaskinia Zbójecka) in Ojców National Park near Kraków; prefuntorially explored in the 19th c.; abundant mammalian remains (ROEMER 1883) suggest their Pleistocene and Holocene age; bird bones, few in number, (at least those of Domestic Hen) come from the Holocene. [C: ZBJ]

Złotów, town in Piła Prov.; material excavated in 1976; a total of 52 bird fragments from sediments dating from 9th-12th cc. treated all together, mentioned by JANASZEK and SOBOCIŃSKI (1979) and described by NOGALSKI and KOSIŃSKA (1987). [ZLO]

Żabia Cave (Jaskinia Żabia) in Sulmów Hill, near Podlesice, Częstochowa Prov.; preliminary exploration in 1979; mammalian fauna indicates the Early Pleistocene (Biharian, Q1); 5 bird fragments (BOSAK et al. 1982). [B: ZAB]

Żukowice, village in Zielona Góra Prov.; Site 9 - Early Medieval exposure, dated to 6th-7th cc.; 84 bird fragments (WALUSZEWSKA-BUBIEŃ 1976b). [ZUK]

III. REVIEW OF BIRD SPECIES

*Gaviidae**Gavia arctica* (LINNAEUS, 1758)[I *Colymbus arcticus*]

[II Polish name "nur polarny"]

Holocene:

1. Rzućewo [Neolithic]
NIEZABITOWSKI LUBICZ- (1933): 79 [I]
2. Gdańsk [Early Middle Ages]
KRYSIK (1956a): 84 [I]
KRYSIK (1968): 10-11 [I], 17 [II]
3. Brodnica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977b): 98.
4. Szczecin [Early Middle Ages]
NOGALSKI (1984): 15-16, 54-55, 85, Pl. IV: Phot. 1-3
5. Dobrzyń [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
6. Kałdus [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246

There is most probably a mistake in the table on p. 246 in which beside the material from Kałdus, where *Gavia* was not found (WALUSZEWSKA-BUBIEŃ, 1980a), the material from Brodnica with that species present (see above) was placed.

7. Dąbki [Mesolithic – Neolithic]
SOBOCIŃSKI (1986): 112

Gavia sp.

[I Polish name "nur"]

Holocene:

1. Gdańsk [Middle Ages]
KRYSIK (1955): 246 [I]

*Podicipedidae**Tachybaptus ruficollis* (PALLAS, 1764)[I *Podiceps ruficollis*]Holocene:

1. Dąbki [Mesolithic - Neolithic]
SOBOCIŃSKI (1986): 112 [I]

Podiceps cristatus (LINNAEUS, 1758)Holocene:

1. Biskupin [Early Middle Ages]
NIEZABITOWSKI LUBICZ- (1936): 157

2. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
3. Smuszewo [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
4. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1985): 51
5. Giecz [Early Middle Ages]
KRUPSKA (1986): 46, 47

Podiceps sp.

- Holocene:
1. Biskupin [Lusatian Culture and Early Middle Ages]
NIEZABITOWSKI LUBICZ- (1938): 94
 2. Dąbki [Mesolithic – Neolithic]
SOBOCIŃSKI (1984): 102

Phalacrocoracidae

Phalacrocorax carbo (LINNAEUS, 1758)

- Holocene:
1. Biskupin [Early Middle Ages]
NIEZABITOWSKI LUBICZ- (1938): 103
 2. Jankowo Wielkopolskie [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
 3. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
 4. Szczecin [Early Middle Ages]
NOGALSKI (1984): 16-17, 62, 85-86, Pl.IV: Phot. 7-9, 11, 12
 5. Wolin [Early Middle Ages]
NOGALSKI (1984): 62, 85-86, Pl. IV: Phot. 10
 6. Kołobrzeg [Early Middle Ages]
NOGALSKI (1984): 63, 85-86, Pl. IV: Phot. 6
 7. Gdańsk [Early Middle Ages]
NOGALSKI (1984): 63, 85-86
 8. Koło [Late Middle Ages – Modern Ages]
KRUPSKA (in press b)

Ardeidae

Botaurus stellaris (LINNAEUS, 1758)

- Holocene:
1. Rockshelter above Niedostępna Cave, l.5 [Neolithic]
BOCHEŃSKI (1974b): 8-10, Pl. I: Phot. 1
BOCHEŃSKI (1988): Tbl.7

- Pleistocene:
1. Rockshelter above Niedostępna Cave, l. 4/5 [boundary of Pleistocene and Holocene]
BOCHEŃSKI (1974b): 8-10
BOCHEŃSKI (1988): Tbl.7

Ardea cinerea LINNAEUS, 1758

[I *Ardea cinerca europens*]

[II Polish generic name "czapla"]

- Holocene:
1. Ćmielów [Neolithic]
KRYSIK (1950a): 188, 192, 226
 2. Poznań [Late Middle Ages]
SWIEŻYŃSKI (1961): 119 [II], 120 [I]
 3. Gdańsk [Early Middle Ages]
KRYSIK (1968): 10-11, 17 [17:II]
 4. Szczecin [Early Middle Ages]
NOGALSKI (1980): 25
NOGALSKI (1984): 17-18, 62, 86, Pl. IV: phot. 4
 5. Kałdus [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1980): 161
WALUSZEWSKA-BUBIEŃ (1984): 246
 6. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1981): 143-5
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 34-35, 51
 7. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1982): 162-163
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 34-35, 51
 8. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
 9. Kruszwica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
- Only *Ardea* sp. occurs in WALUSZEWSKA-BUBIEŃ (1965b) original publication.
10. Radacz [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
- Only *Ardea* sp. occurs in (WALUSZEWSKA-BUBIEŃ 1967) original publication.
11. Wolin [Early Middle Ages]
NOGALSKI (1984): 62,

12. Kołobrzeg [Early Middle Ages]
NOGALSKI (1984): 17-18, 62-63, 86, Pl. IV: Phot. 5
13. Stare Drawsko [Early Middle Ages]
KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 38
WALUSZEWSKA-BUBIEŃ (1984): 246
14. Mała Nieszawka [Late Middle Ages]
NOGALSKI et al. (1992): 80, 91, 82
15. Koło [Late Middle Ages – Modern Ages]
KRUPSKA (in press b)

Ardea sp.

[1 Polish generic name "czapla"]

Holocene:

1. Szczecin [Early Middle Ages]
KUBASIEWICZ (1955): 74, 79 [1]
2. Gródek Nadbużny [Funnel Beaker Culture]
KRYSIK (1956d): 50 [1]
3. Kruszwica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965b): 152
4. Radacz [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1967): 195

(see remark for *A. cinerea*)

(see remark for *A. cinerea*)

Ciconiidae

Ciconia ciconia (LINNAEUS, 1758)

Holocene:

1. Wrocław [Early Middle Ages]
MYCZKOWSKI (1960): 166
2. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965a): 136
WALUSZEWSKA-BUBIEŃ (1973): 181-182
WALUSZEWSKA-BUBIEŃ (1982): 163
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 35, 51
3. Gwieździn [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 449
WALUSZEWSKA-BUBIEŃ (1984): 246
4. Szczecin [Early Middle Ages]
NOGALSKI (1980): 25

5. Stare Drawsko [Middle Ages]

KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 38

WALUSZEWSKA-BUBIEŃ (1984): 246

6. Radacz [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 246

Only *Ciconia* sp. occurs in (WALUSZEWSKA-BUBIEŃ 1967) original publication.

6. Dąbki [Mesolithic – Neolithic]

SOBOCIŃSKI (1984): 102

7. Gniew [Middle Ages]

NOGALSKI (1992): 50, 51, 52, 54-55

8. Mała Nieszawka [Late Middle Ages]

NOGALSKI et al. (1992): 80, 81

9. Ciechanów [Late Middle Ages - Modern Ages]

NOGALSKI, KOSIŃSKA (in press b)

Ciconia sp.[I *Ciconia*]

[II Polish generic name "bocian"]

Holocene:

1. Kruszwica [Early Middle Ages]

SOBOCIŃSKI (1964): 163 [II]

2. Radacz [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1967): 195

(see remark for *C. ciconia*)

WALUSZEWSKA-BUBIEŃ (1985): 35

3. Gdańsk [Early Middle Ages]

KRYSIK (1968): 10-11 [I], 17 [II]

4. Santok [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1985): 35

*Threskiornithidae**Platalea leucorodia* LINNAEUS, 1758Holocene:

1. Santok [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 246

*Anatidae**Cygnus olor* (GMELIN, 1789)

[I Polish name "łabędź niemy", or generic name "łabędź"]

Holocene:

1. Rzućewo [Neolithic]

NIEZABITOWSKI LUBICZ- (1933): 79

2. Krępsk [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 439
3. Gwieździn [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 448
WALUSZEWSKA-BUBIEŃ (1984): 246
4. Brodnica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977b): 98.
WALUSZEWSKA-BUBIEŃ (1984): 246
5. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1982): 165
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 36, 51
6. Pelplin-Maciejewo or Lubiszewo [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246

The author does not give the place where the remains were found.

7. Szczecin [Early Middle Ages]
NOGALSKI (1984): 18, 62,
8. Stare Drawsko [Early Middle Ages – Modern Ages]
KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 43
WALUSZEWSKA-BUBIEŃ (1984): 246
KRUPSKA (1985): 159, 170
9. Kruszwica [Middle Ages]
KRUPSKA (1985): 159, 170
10. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
KRUPSKA (1985): 159, 170
11. Giecz [Early Middle Ages]
KRUPSKA (1986): 46,47
12. Szamotuły [14th-16th cc.]
KRUPSKA (1987b): 22, 24
13. Człuchów [Late Middle Ages – Modern Ages: 14th-17th cc.]
NOGALSKI, SAŁACIAK (1990): 52, 54
14. Lubin [Early Middle Ages]
SOBOCIŃSKI, MAKOWIECKI (1991): 73, 87 [I]
KRUPSKA (1991): 9, 10
15. Koło [Late Middle Ages – Modern Ages]
KRUPSKA (in press b)

Cygnus cygnus (LINNAEUS, 1758)Holocene:

1. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
2. Stare Drawsko [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246

Only *C. olor* is mentioned in the work containing a description of this material (KRUPSKA, WALUSZEWSKA-BUBIEŃ 1984)

3. Mała Nieszawka [Late Middle Ages]
NOGALSKI et al. (1992): 80, 81, 82

Cygnus sp.[I *Cygnus*]

[II Polish generic name "łabędź"]

Lack of stratigraphic data [Vistulian – Holocene]:

1. Sąpowska Zachodnia Cave (earth heap left after earlier excavation)
BOCHENSKI (1988): 47-48

Holocene:

1. Gniezno [Middle Ages]
NIEZABITOWSKI LUBICZ- (1939): 189, 268
2. Szczecin [Early Middle Ages]
KUBASIEWICZ (1955): 74, 79 [II]
3. Gdańsk [Middle Ages]
KRYSIK (1955): 246 [II]
KRYSIK (1956a): 83-84 [I]
KRYSIK (1968): 10-11 [I], 17 [II]
4. Kruszwica [Early Middle Ages]
SOBOCIŃSKI (1964): 163 [II]
5. Sąsiadka [Early Middle Ages]
KRYSIK (1966): 174 [I]

Anser cf. *fabalis* (LATHAM, 1787)Holocene:

1. Tunel Wielki Rockshelter [Modern Ages]
BOCHENSKI (1974b): 11-13

Anser cf. *erythropus* (LINNAEUS, 1758)Pleistocene:

1. Rockshelter at Zalas, l. 7 [Vistulian]
BOCHENSKI et al. (1985): 17-19
BOCHENSKI (1988): Tbl. 7

Anser anser (LINNAEUS, 1758)[I *Anser anser*; *Anser anser* f. *domestica* (or vice versa)][II *Anser domesticus*, or abbr. *Anser dom.*][III *Anser spec. ? domesticus*][IV *Anser domesticus?*][V *Anser anser* L. *domesticus*]/[VI *Anser anser* f. *domestica*][VII *Anser cinereus*][VIII *Anser cinereus*][IX *Anser*]

[X various Polish names: "gęś, gęś domowa, gęś gęgawa i domowa, gęś prawdopodobnie domowa, gęś domowa (lub gęgawa), gęgawa"]

Holocene:

1. Okopy Wielka Dolna Cave [undefined period of the Holocene]

CZARNOWSKI (1901): 91 [VII]

KOWALSKI (1951): 276

The author mentions "kaczka" (duck) owing to the wrong interpretation of the note in CZARNOWSKI's (1901) paper.

2. Rockshelter in Puchacza Skała [undefined period of the Holocene]

CZARNOWSKI (1904): 14 [VII]

KOWALSKI (1951): 265 [X]

3. Biskupin [Lusatian Culture and Early Middle Ages]

NIEZABITOWSKI LUBICZ- (1936): 157 [VII]

NIEZABITOWSKI LUBICZ- (1938): 103 [X]

4. Gniezno [Early Middle Ages]

NIEZABITOWSKI LUBICZ- (1939): 189 [X], 248-250 [X, V]

SCHRAMM (1974b): 260, 261 [X]

WALUSZEWSKA-BUBIEŃ (1984): 246

5. Ćmielów [Neolithic]

KRYSIK (1951/52): 252, 270

6. Gdańsk [Early Middle Ages]

JAWORSKI (1952): 89 [X]

KRYSIK (1968): 10-11 [IX], 14 [X]

NOGALSKI (1984): 11-12, 60-61, 62-63, 74-79, Pl. II: Phot. 5, 7 [I]

7. Szczecin [Early Middle Ages]

KUBASIEWICZ (1955): 74, 79 [IV]

NOGALSKI (1980): 23 [I]

NOGALSKI (1984): 11-12, 54-55, 62, 74-78, Pl. II: Phot. 8, 11 [I]

8. Wolin [Early Middle Ages]

KUBASIEWICZ (1956): 218 [IV]

NOGALSKI (1984): 11-12, 56-57, 62, 74-79, Pl. II: Phot. 3, 4, 6, 9, 10 [I]

9. Jeziorko [Early Iron Age]
KRYSIK (1958): 72
10. Ryczyn [Early Middle Ages]
SOBOCIŃSKI (1960a): 143 [X]
BUBIENIOWA (1969): 210 [III]
WALUSZESKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 51 [I]
11. Wrocław [Early Middle Ages]
MYCZKOWSKI (1960): 166 [II]
WALUSZEWSKA-BUBIEŃ (1971): 402-403 [I]
WALUSZEWSKA-BUBIEŃ (1981): 145-148 [I]
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 51 [I]
KRUPSKA (in press a) [VI]
12. Poznań [Early Middle Ages – Modern Ages]
CHMIELEWSKI (1961a): 123, 130, 133 [133: VIII]
SOBOCIŃSKI (1973a): 281 [X]
WALUSZEWSKA-BUBIEŃ (1977d): 250-251 [I]
WALUSZEWSKA-BUBIEŃ (1984): 246
KRUPSKA (1987a): 12, 13 [I]
SOBOCIŃSKI (1987c): 144 [I]
NOGALSKI (1991a): 34, 36-37 [I]
13. Ujście [Early Middle Ages]
CHMIELEWSKI (1961b): 114, 118, 122, 125, 128, 131
WALUSZEWSKA-BUBIEŃ (1975b): 86 [I]
WALUSZEWSKA-BUBIEŃ (1984): 246
14. Bonikowo [Early Middle Ages]
SOBOCIŃSKI (1961b): 772 [X]
SOBOCIŃSKI (1963a): 310, 311, 313, 318 [X]
15. Cedynia [Early Middle Ages]
KUBASIEWICZ, GAWLIKOWSKI (1962): 443 [VI(?)]
NOGALSKI (1981): 96, Fig. 5.1, 5.2 [I]
16. Kruszwica [Early Middle Ages]
SOBOCIŃSKI (1964): 156, 163 [X]
WALUSZEWSKA-BUBIEŃ (1965b): 152, Phot. 2
WALUSZEWSKA-BUBIEŃ (1984): 246
KRUPSKA (1985): 158-159, 166-169 [I]
17. Sądka [Early Middle Ages]
KRYSIK (1966): 174 [IX], 184 [X]

18. Opole [Early Middle Ages]
 - WALUSZEWSKA-BUBIEŃ (1965a): 135 [II]
 - WALUSZEWSKA-BUBIEŃ (1973): 182-183 [I]
 - WALUSZEWSKA-BUBIEŃ (1982): 163-165 [I]
 - WALUSZEWSKA-BUBIEŃ (1984): 246
 - WALUSZEWSKA-BUBIEŃ (1985): 51 [I]
19. Janikowo [La Tène and period of Roman influences]
 - SOBOCIŃSKI, MAŃKOWSKI (1975): 6 [X]
 - WALUSZEWSKA-BUBIEŃ (1975a): 29-30 [VI]
20. Nakło [Early Middle Ages]
 - WALUSZEWSKA-BUBIEŃ (1975c): 129[I]
 - WALUSZEWSKA-BUBIEŃ (1984): 246
21. Rockshelter above Niedostępna Cave [Modern Ages]
 - BOCHEŃSKI (1974b): 11, 198, 205
 - BOCHEŃSKI (1988): Tbl. 7
22. Tunel Wielki Rockshelter [Modern Ages]
 - BOCHEŃSKI (1974b): 11, 198, 205
 - BOCHEŃSKI (1988): Tbl. 7
23. Samborzec [Neolithic]
 - BOCHEŃSKI (1974b): 11, 198, 205
24. Bnin [Bronze Age – Early Middle Ages]
 - WALUSZEWSKA-BUBIEŃ (1975d): 253, 254, 255, 256, 257 [I]
 - WALUSZEWSKA-BUBIEŃ (1979): 163, 166 [Early Middle Ages: I]
 - WALUSZEWSKA-BUBIEŃ (1984): 246
25. Szarlej [Early Middle Ages]
 - SOBOCIŃSKI (1976a): 18 [X]
 - WALUSZEWSKA-BUBIEŃ (1984): 246
26. Dobieszewice [Przeworsk Culture]
 - SOBOCIŃSKI (1976c): 59 [X]
27. Wegry [Lusatian Culture and Early Middle Ages]
 - WALUSZEWSKA-BUBIEŃ (1976a): 69, 70, 72 [I]
 - WALUSZEWSKA-BUBIEŃ (1984): 246
28. Barkowo [Early Middle Ages]
 - WALUSZEWSKA-BUBIEŃ (1977a): 438, 439 [VI]
 - WALUSZEWSKA-BUBIEŃ (1984): 246
29. Krępsk [Early Middle Ages]
 - WALUSZEWSKA-BUBIEŃ (1977a): 438, 439 [VI]
 - WALUSZEWSKA-BUBIEŃ (1984): 246

30. Gwieździn [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 447-448, 449 [VI]
WALUSZEWSKA-BUBIEŃ (1984): 246
 31. Brodnica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977b): 97-98 [I]
WALUSZEWSKA-BUBIEŃ (1984): 246
 32. Inowrocław, site 11 [2900-2600 BP]
Inowrocław, site 4b [period of Roman influences]
Inowrocław, site 2a, 20 [Early Middle Ages]
Inowrocław, site 19 [Late Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977c): 103, 106 [I], 109-110 [VI], 111 [I]
 33. Kamień Pomorski [Early Middle Ages]
NOGALSKI (1979a): 72, 75 [I]
 34. Gorzędziej [Early Middle Ages]
NOGALSKI (1979b): 82, 85 [I]
 35. Mietlica [Early Middle Ages]
JERNIGAN, SOBOCIŃSKI (1979): 37-41 [X]
 36. Broniewice [3800-2600 BC]
SOBOCIŃSKI (1979a): 113, 117 [X(?)]
- In the 5th millennium BP goose had not been domesticated yet (DELACOUR 1964)
37. Złotów [Early Middle Ages]
JANASZEK, SOBOCIŃSKI (1979): 49 [X]
NOGALSKI, KOSIŃSKA (1987): 50, 51 [I]
 38. Jedwabno [Early Middle Ages]
SOBOCIŃSKI (1980b): 73 [X]
 39. Kałdus [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1980): 161 [VI]
WALUSZEWSKA-BUBIEŃ (1984): 246
 40. Legnica [Early Middle Ages – Modern Ages]
WYROST et al. (1980): 590, 593-597 [I]
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 51 [I]
 41. Brześć Kujawski [Neolithic]
BOGUCKI (1981): 3, 5
 42. Łyszkowice [Przeworsk Culture]
SOBOCIŃSKI (1981): 42 [X]
 43. Wiślica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246

Only *Anser* sp. occurs in WALUSZEWSKA-BUBIEŃ's (1968) study of remains from Wiślica.

44. Jankowo Wielkopolskie [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 246

45. Włocławek [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 246

WALUSZEWSKA-BUBIEŃ (1969a) in original work gives *Anser* sp. with the adnotation: "most probably ... *Anser domesticus*"

46. Dobrzyń [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 246

47. Radacz [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 246

Only *Anser* sp. figures in WALUSZEWSKA-BUBIEŃ's (1967) paper.

48. Kołobrzeg [Early Middle Ages]

NOGALSKI (1984): 11-12, 58-59, 62-63, 74-79, Pl. II: Phot. 1, 2, 12 [I]

49. Stare Drawsko [Early Middle Ages – Modern Ages]

KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 40-42 [I]

WALUSZEWSKA-BUBIEŃ (1984): 246

KRUPSKA (1985): 158-159, 166-169 [I]

50. Dąbki [Mesolithic – Neolithic]

SOBOCIŃSKI (1984): 102

SOBOCIŃSKI (1986): 112.

51. Santok [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 246

KRUPSKA (1985): 158-159, 166-169 [I]

52. Giecz [Early Middle Ages]

KRUPSKA (1986): 46, 47, 48 [I]

53. Łącko [Early Middle Ages]

MAKOWIECKI (1986): 63 [X]

54. Szamotuły [Late Middle Ages – Recent]

KRUPSKA (1987b): 22, 24 [I]

55. Konary [Przeworsk Culture]

SOBOCIŃSKI (1987b): 120 [X]

56. Myśliborz [Early Middle Ages]

WYROST, MOLENDĄ (1987): 218 [I]

57. Węgierce [ca 6000 BP]

MAKOWIECKI (1989): 24 [X]

58. Lembarg [Early Middle Ages]

MAKOWIECKI (1990): 28 [I]

59. Człuchów [Middle Ages – Modern Ages]

NOGALSKI, SAŁACIAK (1990): 52, 53-54 [I]

60. Piekary i Wola Piekarska [Middle Ages]
SOBOCIŃSKI, KRUSZONA (1990): 140. [X]
61. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554 (cf.)
62. Lubin [Early Middle Ages – Modern Ages]
SOBOCIŃSKI, MAKOWIECKI (1991): 73, 87 [X]
KRUPSKA (1991): 8, 9 [I]
63. Mała Nieszawka [Late Middle Ages]
NOGALSKI (1991b): 18, 19 [I]
64. Tykocin [Late Middle Ages – Modern Ages]
NOGALSKI, KOSIŃSKA (1991): 26, 28 [I]
65. Gniew [Middle Ages – Modern Ages]
NOGALSKI (1992a): 50, 51, 52 [I]
NOGALSKI (1992b): 60, 61, 62-63 [I]
NOGALSKI (1992c): 73-75 [I]
66. Koło [Late Middle Ages – Modern Ages]
KRUPSKA (in press b) [I]
67. Bardo Śląskie [Late Middle Ages]
CHRZANOWSKA (in press) [VI]
68. Chełm-Bielawin [Early Middle Ages]
NOGALSKI, KOSIŃSKA (in press a) [I]
69. Ciechanów [Late Middle Ages – Modern Ages]
NOGALSKI, KOSIŃSKA (in press b) [I]
70. Międzyrzecz Wielkopolski [Middle Ages]
WYROST (MS) [X]
71. Bytom Odrzański [Early Middle Ages]
CHRZANOWSKA, WYROST (MS) [X]

Pleistocene: 1. Cave in Dziadowa Skała, l. 8 [Vistulian]
BOCHEŃSKI JR. (1990): 136 (cf.)

Anser sp.

[I *Anseriformes* (goose?)]

[II Polish generic name "gęś"]

Lack of stratigraphic data [Pleistocene – Holocene]:

1. Jaskinia Sadlana
ROEMER (1883): 28
2. Dolne Małe w Okopach Rockshelter
CZARNOWSKI (1902): 25 [II]
KOWALSKI (1951): 273 [II]

Holocene:

1. Ćmielów [Neolithic]
KRYSIK (1950a): 186, 226
2. Biskupin [Lusatian Culture]
KRYSIK (1950b): 42, 64
3. Gdańsk [Middle Ages]
KRYSIK (1955): 246 [II]
KRYSIK (1956a): 83
4. Gródek Nadbużny [Funnel Beaker Culture]
KRYSIK (1956d): 50 [II]
GUMIŃSKI (1989): 33 [II]
5. Klementowice [Neolithic]
KRYSIK (1957): 205, 206 [II]
6. Wrocław [Early Middle Ages]
MYCZKOWSKI (1962): 15 [II]
7. Radacz [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1967): 194, Phot. 2

(see remark for *A. anser*)

8. Ogrodzieniec [Modern Ages]
KUBASIEWICZ, ŁABĘCKI (1967): 65 [II]
9. Strzyżów [Neolithic/Bronze Age]
GŁOSIK (1968): 21
NOWAK (1968): 126, 127
10. Wiślica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1968): 171

(see remark for *A. anser*)

11. Włocławek [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1969a): 154 ["most probably ... *Anser domesticus*"]

(see remark for *A. anser*)

12. Gniezno [Early Middle Ages – Modern Ages]
WALUSZEWSKA-BUBIEŃ (1969b): 158, 160, 166-169, 172-175, 181, 182, 183, 184
SOBOCIŃSKI, SCHRAMM (1972): 173 [II]
13. Kaszowo [Early Middle Ages]
SOBOCIŃSKI (1973b): 257 [II]
14. Bruszczewo [Bronze Age]
SOBOCIŃSKI (1977): 61 [II]
15. Stradów [Early Middle Ages]
TOMEK (1984): 121, 126

16. Nad Mosurem Starym Duża Cave, l. 3 [Bronze Age]
NADACHOWSKI et al. (1989a): 505 [I]
17. Sopot [Early Middle Ages]
SOBOCIŃSKI (1991): 55 [II]
18. Tąarów Górny [Przeworsk Culture]
SOBOCIŃSKI, MAKOWIECKI (1992): 204, 206 [II]

Branta cf. leucopsis (BECHSTEIN, 1803)

- Pleistocene:
1. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285 (cf.), 287

Anas penelope LINNAEUS, 1758

- Holocene:
1. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965a): 135
WALUSZEWSKA-BUBIEŃ (1973): 184
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 40, 52
 2. Koziarnia Cave, l. 1d [Early Holocene]
BOCHEŃSKI (1974b): 16-18, 198, 205
BOCHEŃSKI (1988): Tbl. 7

- Pleistocene:
1. Rockshelter in Żytnia Skała, loess with rubble at the top [Vistulian]
BOCHEŃSKI (1974b): 16-18, 198, 205, Pl. I: Phot 2.
 2. Cave in Dziadowa Skała, l. 7 [Vistulian]
BOCHEŃSKI JR. (1990): 136 (cf.)

Anas crecca LINNAEUS, 1758

- Holocene:
1. Mamutowa Cave, l. 1 [Early Holocene]
BOCHEŃSKI (1981): 2-3
 2. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1981): 150
WALUSZEWSKA-BUBIEŃ (1985): 52
 3. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1982): 166
WALUSZEWSKA-BUBIEŃ (1985): 52
 4. Santok [Early Middle Ages]
KRUPSKA (1985): 160, Fig.2, 174
 5. Giecz [Early Middle Ages]
KRUPSKA (1986): 47, 49

6. Dąbki [Mesolithic – Neolithic]
SOBOCIŃSKI (1986): 112
7. Mała Nieszawka [Late Middle Ages]
NOGALSKI et al. (1992): 80, 81, 82
8. Koło [Late Middle Ages – Modern Ages]
KRUPSKA (in press b)

Pleistocene:

1. Mamutowa Cave, I. 2, 3 [Vistulian]
BOCHEŃSKI (1974b): 18-19, 198, 205 (cf.)
2. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285, 287

Anas platyrhynchos LINNAEUS, 1758

[I *Anas platyrhynchos*, (and/aut) *Anas platyrhynchos f. domestica* (or vice versa)]

[II *Anas platyrhynchus*]

[III *Anas boschas*]

[IV *Anas platyrhyncha (boschas)*]

[V *Anas plathyr.*]

[VI *Anas platyrhynchos f. domestica*]

[VII *Anas domestica* (or) *Anas domesticus*]

[VIII *Anas spec.? domestica*]

[IX *Anas dom.*]

[X *Anas* sp. (interpreted in Polish as domestic duck or Mallard)]

[XI *Anas* (in the light of the context it is a domestic duck)]

[XII various Polish names: "kaczka krzyżówka, krzyżówka, kaczka domowa, kaczka prawdopodobnie domowa, kaczka (czy udomowiona?), kaczka"]

Holocene:

1. Biskupin [Lusatian Culture and Early Middle Ages]
NIEZABITOWSKI LUBICZ- (1936): 157 [III]
NIEZABITOWSKI LUBICZ- (1938): 103 [XII]
2. Gniezno [Early Middle Ages]
NIEZABITOWSKI LUBICZ- (1939): 189 [XII], 250-251 [IX]
WALUSZEWSKA-BUBIEŃ (1969b): 158 [X], 166 [XII, 174 [XII]
WALUSZEWSKA-BUBIEŃ (1984): 246
3. Wolin [Early Middle Ages]
KUBASIEWICZ (1956): 218 [VII (?)]
NOGALSKI (1984): 12-14, 56-57, 62, 79-84, Pl. III: Phot. 2, 7, 8 [I]
4. Klementowice [Neolithic]
KRYSIK (1957): 205, 206 [XII, V]
5. Wrocław [Early Middle Ages]
MYCZKOWSKI (1960): 166 [III and IV]

- WALUSZEWSKA-BUBIEŃ (1971): 403-405 [I]
 WALUSZEWSKA-BUBIEŃ (1981): 148-150 [I]
 WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
 WALUSZEWSKA-BUBIEŃ (1985): 52 [I]
 KRUPSKA (in press a) [VI]
6. Bonikowo [Early Middle Ages]
 SOBOCIŃSKI (1961b): 772 [XII]
 SOBOCIŃSKI (1963a): 310, 311, 313, 318 [XII]
7. Opole [Early Middle Ages]
 WALUSZEWSKA-BUBIEŃ (1965a): 135 [VII]
 WALUSZEWSKA-BUBIEŃ (1973): 184 [I]
 WALUSZEWSKA-BUBIEŃ (1982): 165-166 [I]
 WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
 WALUSZEWSKA-BUBIEŃ (1985): 52 [I]
8. Cedynia [Early Middle Ages]
 KUBASIEWICZ, GAWLIKOWSKI (1962): 443 [VII]
 NOGALSKI (1981): 96, Fig. 5,3 [I]
9. Kruszwica [Middle Ages]
 SOBOCIŃSKI (1964): 156, 163 [XII]
 WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
- Only *Anas* sp. occurs in original publication (WALUSZEWSKA-BUBIEŃ 1965b)
 KRUPSKA (1985): 160, 170-173 [I]
10. Sąsiadka [Early Middle Ages]
 KRYSIAK (1966): 174 [XI], 184 [XII]
11. Gdańsk [Early Middle Ages]
 KRYSIAK (1968): 10-11 [XI], 14 [XII]
 NOGALSKI (1984): 12-14, 60-61, 62-63, 79-84 [I]
12. Ryczyn [Early Middle Ages]
 BUBIENIOWA (1969): 210 [VIII]
 WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
 WALUSZEWSKA-BUBIEŃ (1985): 52 [I]
13. Jaskinia Kopana, humus layer [Late Holocene]
 BOCHEŃSKI (1974b): 13, 198, 205
14. Rockshelter below Tunel Wielki [Late Holocene]
 BOCHEŃSKI (1974b): 13, 198, 205
 BOCHEŃSKI (1988): Tbl. 7
15. Ujście [Early Middle Ages]
 WALUSZEWSKA-BUBIEŃ (1975b): 86 [I]
 WALUSZEWSKA-BUBIEŃ (1984): 246 [I]

16. Nakło [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1975c): 129 [I]
WALUSZEWSKA-BUBIEŃ (1984): 246[I]
17. Bnin [Middle Ages]
WALUSZEWSKA-BUBIEŃ (1975d): 254, 256; 255 [I]
WALUSZEWSKA-BUBIEŃ (1979): 163, 166 [I]
WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
18. Szarlej [Early Middle Ages]
SOBOCIŃSKI (1976a): 18 [XII]
WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
19. Dobieszewice [Przeworsk Culture]
SOBOCIŃSKI (1976c): 59 [XII]
20. Węgry [Lusatian Culture and Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1976a): 69, 70, 72[I]
WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
21. Żukowice [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1976b): 79, 80.
22. Krępsk [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 439, 440
WALUSZEWSKA-BUBIEŃ (1984): 246[I]
23. Gwieździn [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 448
WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
24. Inowrocław [period of Roman influences – Late Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977c): 105 [I], 107, 109 [I], 111
25. Poznań [Middle Ages – 19th c.]
WALUSZEWSKA-BUBIEŃ (1977d): 251 [VI]
WALUSZEWSKA-BUBIEŃ (1984): 246[I]
KRUPSKA (1987a): 12, 13 [I]
SOBOCIŃSKI (1987c): 144 [I]
NOGALSKI (1991a): 34, 36 [I]
26. Kamień Pomorski [Early Middle Ages]
NOGALSKI (1979a): 72, 75 [I]
27. Gorzędziej [Early Middle Ages]
NOGALSKI (1979b): 82, 86 [I]
28. Mietlica [Early Middle Ages]
JERNIGAN, SOBOCIŃSKI (1979): 37-41 [XII]
29. Złotów [Early Middle Ages]
JANASZEK, SOBOCIŃSKI (1979): 49 [XII]

30. Szczecin [Early Middle Ages]
 NOGALSKI (1980): 18, 23-24 [I]
 NOGALSKI (1984): 12-14, 54-55, 62, 79-84, Pl. III: Phot. 1, 3-6, 9 [I]
31. Legnica [Early Middle Ages]
 WYROST et al. (1980): 590, 597 [I]
 WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
 WALUSZEWSKA-BUBIEŃ (1985): 52 [I]
32. Brześć Kujawski [Neolithic]
 BOGUCKI (1981): 3, 5
33. Dobrzyń [Early Middle Ages]
 WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
34. Smuszewo [Early Middle Ages]
 WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
35. Kołobrzeg [Early Middle Ages]
 NOGALSKI (1984): 12-14, 58-59, 62-63, 79-84, [I]
36. Stare Drawsko [Early Middle Ages – Modern Ages]
 KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 38-39 [I]
 WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
 KRUPSKA (1985): 160, 170-173 [I]
37. Dąbki [Mesolithic-Neolithic]
 SOBOCIŃSKI (1984): 102
 SOBOCIŃSKI (1986): 112
38. Wiślica [Early Middle Ages]
 WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
 Only *Anas* sp. occurs in original publication (WALUSZEWSKA-BUBIEŃ 1968).
39. Jankowo Wielkopolskie [Early Middle Ages]
 WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
40. Radacz [Early Middle Ages]
 WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
 Only *Anas* sp. occurs in original publication (WALUSZEWSKA-BUBIEŃ 1967).
41. Santok [Early Middle Ages]
 WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
 KRUPSKA (1985): 160, 170-173 [I]
42. Giecz [Early Middle Ages]
 KRUPSKA (1986): 47, 49 [I]
43. Łącko [Early Middle Ages]
 MAKOWIECKI (1986): 63 [XII]
44. Moroczyn [Late Holocene]
 BOCHENSKI et al. (1987): 322-323

45. Szamotuły [19th-20th cc.]
KRUPSKA (1987b): 22, 24 [I]
46. Myśliborz [Early Middle Ages]
WYROST, MOLENDĄ (1987): 218 [I]
47. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446
BOCHEŃSKI, TOMEK (1991): 554
48. Człuchów [Middle Ages – Modern Ages]
NOGALSKI, SAŁACIAK (1990): 52, 54 [I]
49. Lubin [12th-16th cc.]
SOBOCIŃSKI, MAKOWIECKI (1991): 73, 87 [XII]
KRUPSKA (1991): 9, 10 [I]
50. Mała Nieszawka [Late Middle Ages]
NOGALSKI (1991b): 18, 19 [I]
NOGALSKI et al. (1992): 80, 81, 82
51. Tykocin [17th-18th cc.]
NOGALSKI, KOSIŃSKA (1991): 26, 28 [I]
52. Gniew [Middle Ages – Modern Ages]
NOGALSKI (1992a): 50, 51, 52, 53 [I]
NOGALSKI (1992b): 60, 61, 64 [I]
NOGALSKI (1992c): 74, 75-76 [I]
53. Koło [Late Middle Ages - Modern Ages]
KRUPSKA (in press b)[I]
54. Chełm-Bielawin [Early Middle Ages]
NOGALSKI, KOSIŃSKA (in press a) [I]
55. Ciechanów [Late Middle Ages - Modern Ages]
NOGALSKI, KOSIŃSKA (in press b) [I]
56. Międzyrzecz Wielkopolski [Middle Ages]
WYROST (MS) [XII]
57. Bytom Odrzański [Early Middle Ages]
CHRZANOWSKA, WYROST (MS) [XII]

Pleistocene:

1. Koziarnia Cave, l. 11 [Vistulian]
BOCHEŃSKI (1974b): 13, 198, 205
2. Raj Cave, l. 6 [Vistulian]
BOCHEŃSKI (1974b): 13, 198, 205
3. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285, 287 (cf.)

Anas acuta LINNAEUS, 1758Pleistocene:

1. Mamutowa Cave, l. 2 [Vistulian]
BOCHENSKI (1974b): 18, 198, 205, (cf.)

Anas querquedula LINNEUS, 1758

[I Polish name "cyranka"]

Holocene:

1. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965a): 135
WALUSZEWSKA-BUBIEŃ (1973): 184-185
WALUSZEWSKA-BUBIEŃ (1982): 166
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 52
2. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1971): 405
WALUSZEWSKA-BUBIEŃ (1981): 150
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 52
3. Ujście [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1975b): 86
WALUSZEWSKA-BUBIEŃ (1984): 246
4. Węgry [Lusatian Culture]
WALUSZEWSKA-BUBIEŃ (1976a): 69, 70
5. Kamień Pomorski [Early Middle Ages]
NOGALSKI (1979a): 72, 76
6. Kościelec Kujawski [3265 BC]
SOBOCIŃSKI (1979): 118 [I]
7. Dąbki [Mesolithic-Neolithic]
SOBOCIŃSKI (1984): 102
8. Chmielno [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
9. Smuszewo [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
10. Kruszwica [Middle Ages]
KRUPSKA (1985): 162, 174-175
11. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
KRUPSKA (1985): 162, 174-175
12. Dąbrówka [Late Middle Ages]
BENECKE (1986): 14

13. Nad Mosurem Starym Duża Cave, l. 4, 5 [Neolithic, Bronze Age]
NADACHOWSKI et al. (1989a): 505
14. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554
15. Lubin [13th-14th cc.]
SOBOCIŃSKI, MAKOWIECKI (1991): 73, 87 [I]
KRUPSKA (1991): 9, 10-13
16. Ciechanów [Late Middle Ages – Modern Ages]
NOGALSKI, KOSIŃSKA (in press b)

Anas querquedula/ crecca juv.

- Holocene:
1. Nad Mosurem Starym Duża Cave, l. 3 [Bronze Age]
NADACHOWSKI et al. (1989a): 505

Anas clypeata LINNAEUS, 1758

- Holocene:
1. Mamutowa Cave, l. 1 [Early Holocene]
BOCHEŃSKI (1981): 3-4 (cf.)
 2. Nad Mosurem Starym Duża Cave, l. 4 [Neolithic]
NADACHOWSKI et al. (1989a): 505
 3. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554

- Pleistocene:
1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1981): 3-4 (cf.)

Anas sp.

[I *Anas*]

[II (*Anser cinereus*, MEYER)]

[III Polish generic name "kaczka"]

- Holocene:
1. Maszycka Cave, l. B [Mesolithic ??]
OSSOWSKI (1885): 37 [II]

In note 3 on p. 91 CZARNOWSKI (1901) explains the nomenclatural mistake of OSSOWSKI, who meant a duck.

2. Szczecin [Early Middle Ages]
KUBASIEWICZ (1955): 74, 79
3. Gdańsk [Early Middle Ages]
KRYSIK (1956a): 83 [I]
4. Milicz [Early Middle Ages]
KUBASIEWICZ (1957b): 180, 192
5. Kruszwica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965b): 152

(see remark for *A. platyrhynchos*)

6. Radacz [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1967): 194

(see remark for *A. platyrhynchos*)

7. Ogrodzieniec [Modern Ages]

KUBASIEWICZ, ŁABĘCKI (1967): 65 [III]

8. Wiślica [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1968): 171

(see remark for *A. platyrhynchos*)

9. Gniezno [Early Middle Ages – Modern Ages]

WALUSZEWSKA-BUBIEŃ (1969b): 158, 166, 174, 181-182

SOBOCIŃSKI, SCHRAMM (1972): 173 [III]

10. Stolno [Linear Band Pottery Culture]

MAKOWIECKI (1987): 263 [III]

11. Tądów Górny [Przeworsk Culture]

SOBOCIŃSKI, MAKOWIECKI (1992): 204, 206 [III]

Aythya ferina (LINNAEUS, 1758)Holocene:

1. Kruszwica [Middle Ages]

KRUPSKA (1985): 162, 175-176

2. Santok [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 246

KRUPSKA (1985): 162, 175-176

3. Wrocław [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1981): 150

WALUSZEWSKA-BUBIEŃ (1984): 246

WALUSZEWSKA-BUBIEŃ (1985): 40, 52

4. Opole [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 246

Pochard is not mentioned in WALUSZEWSKA-BUBIEŃ's (1965a, 1973, 1982) preliminary report and studies.

5. Gniezno [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 246

Only *Nyroca* sp. occurs in WALUSZEWSKA-BUBIEŃ's (1969b) original work, interpreted in Polish as Tufted Duck or Pochard.

6. Ujście [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 246

A. ferina aut *A. fuligula* occurs in WALUSZEWSKA-BUBIEŃ's (1975b) original work.Pleistocene:

1. Zamkowa Dolna Cave, l. 6 [Vistulian]

BOCHEŃSKI (1974b): 21-22, 198, 206 (cf.)

Aythya fuligula (LINNAEUS, 1758)

[I Polish name "kaczka czernica"]

- Holocene:
1. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1981): 150
WALUSZEWSKA-BUBIEŃ (1985): 40, 52
 2. Kruszwica [Middle Ages]
KRUPSKA (1985): 162, 176-177
 3. Santok [Early Middle Ages]
KRUPSKA (1985): 162, 176-177
 4. Dąbki [Mesolithic – Neolithic]
SOBOCIŃSKI (1986): 112

- Pleistocene:
1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 19-21, 198, 205
BOCHEŃSKI (1977): 69 [I]
 2. Saspowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 48, 72, Tbl. 7

Aythya ferina (LINNEUS, 1758) aut *Aythya fuligula* (LINNAEUS, 1758)[I *Aythya fuligula* aut *Aythya ferina*]

[II Polish names "czernica lub (or) głowienka"]

- Holocene:
1. Ujście [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1975b): 86
(see remark for *A. ferina*)
 2. Brześć Kujawski [Neolithic]
BOGUCKI (1981): 3, 5
 3. Lubin [Early Middle Ages]
SOBOCIŃSKI, MAKOWIECKI (1991): 73, 87 [II]
KRUPSKA (1991): 9, 13 [I]
 4. Koło [Late Middle Ages – Modern Ages]
KRUPSKA (in press b)

Aythya marila (LINNAEUS, 1761)

- Pleistocene:
1. Mamutowa Cave, l. 2g [Vistulian]
BOCHEŃSKI (1981): 4-5

Aythya sp.[I *Nyroca* sp.]

- Holocene:
1. Gniezno [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1969b): 158, 174-177, 184 [I]

(see remark for *A. ferina*)

Anas aut Aythya

- Pleistocene: 1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 23, 198, 206

Clangula hyemalis (LINNAEUS, 1758)

- Holocene: 1. Gniew [Early Middle Ages]
NOGALSKI (1992c): 74, 75, 76

- Pleistocene: 1. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285, 287

Melanitta nigra (LINNAEUS, 1758)

- Pleistocene: 1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1981): 5

Melanitta fusca (LINNAEUS, 1758)

- Holocene: 1. Santok [Early Middle Ages]
KRUPSKA (1985): 162 ["most probably"]
WALUSZEWSKA-BUBIEŃ (1984): 246

Mergus merganser LINNAEUS, 1758

- Pleistocene: 1. Nad Mosurem Starym Duża Cave, l. 5 [Vistulian]
NADACHOWSKI et al. (1989a): 505
2. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285

Anatidae indet.

[1 various Polish names "kaczka, kaczki, różne kaczki"]

- Holocene: 1. Borsucza Cave [Late Holocene ?]
OSSOWSKI (1880): 55 [1]
2. Nad Galoską Cave [undefined period of the Holocene]
OSSOWSKI (1881): 23 [1]
3. Biskupin [Lusatian Culture and Early Middle Ages]
NIEZABITOWSKI LUBICZ- (1936): 157 [1]
NIEZABITOWSKI LUBICZ- (1938): 103 [1]
4. Gdańsk [Middle Ages]
KRYSIK (1955): 246 [1]
5. Gródek Nadbużny [Funnel Beaker Culture]
KRYSIK (1956d): 50 [1]
GUMIŃSKI (1989): 33 [1]

6. Milicz [Early Middle Ages]
KUBASIEWICZ (1957a): 85 [1]
7. Świecie [Middle Ages]
SOBOCIŃSKI (1968a): 330 [1]
8. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554, 556

- Pleistocene:
1. Mamutowa Cave, l. VI [Vistulian]
BOCHEŃSKI (1974b): 23, 198, 206

Accipitridae

Haliaeetus albicilla (LINNAEUS, 1758)

[I Polish name "orzeł (bielik?)"]

Lack of stratigraphic data [Pleistocene – Holocene]:

1. Koziarnia Cave, l. 1a-c [earth heap after old excavations]
BOCHEŃSKI (1974b): 23-24, 198, 206 Pl. I: Phot. 3

Holocene:

1. Biskupin [Lusatian Culture and Early Middle Ages]
NIEZABITOWSKI LUBICZ- (1936): 157 [1]
NIEZABITOWSKI LUBICZ- (1938): 94
2. Wolin [Early Middle Ages]
KUBASIEWICZ (1956): 22 ["probably"]
NOGALSKI (1984): 19-20, 56-57, 62, 87, Pl. V: Phot. 4,5
3. Gwieżdżin [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 449
WALUSZEWSKA-BUBIEŃ (1984): 246
4. Szczecin [Early Middle Ages]
NOGALSKI (1980): 25
NOGALSKI (1984): 19-20, 54-55, 62, 87, Pl. V: Phot. 1, 2, 6, 7
5. Cedynia [Early Middle Ages]
NOGALSKI (1981): 98
6. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1982): 167
WALUSZEWSKA-BUBIEŃ (1985): 41, 52
7. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
8. Gdańsk [Early Middle Ages]
NOGALSKI (1984): 19-20, 60-61, 62-63, 87
9. Stare Drawsko [Early Middle Ages – Modern Ages]
KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 43-44

WALUSZEWSKA-BUBIEŃ (1984): 246

10. Mała Nieszawka [Late Middle Ages]

NOGALSKI et al. (1992): 80-83, 81, 82

Aegypius monachus (LINNAEUS, 1766)

Holocene: 1. Demblin [Early Middle Ages]
BOCHEŃSKI (1974b): 24, 199, 206

Circus cyaneus (LINNAEUS, 1766)

Holocene: 1. Brześć Kujawski [Neolithic]
BOGUCKI (1981): 3, 5

Circus aeruginosus (LINNAEUS, 1758)

Holocene: 1. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1981): 151-153
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 52

Accipiter nisus (LINNAEUS, 1758)

[*Astur nisus* ?]

Lack of stratigraphic data [Pleistocene – Holocene]:

1. One of the caves at Ojców

"Eine Knochenhöhle bei Ojców in Russ. Polen"

NEHRING (1880): 482 [1]

Holocene: 1. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965a): 135
WALUSZEWSKA-BUBIEŃ (1973): 185
WALUSZEWSKA-BUBIEŃ (1982): 168
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 42, 52
2. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1971): 407
WALUSZEWSKA-BUBIEŃ (1981): 151
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 42, 52
3. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
4. Nad Mosurem Starym Duża Cave, l. 2 [Late Holocene]
NADACHOWSKI et al. (1989a): 505

5. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI, TOMEK (1991): 554

Accipiter gentilis (LINNAEUS, 1758)[I *Astur palumbarius*]

[II Polish name "jastrząb"]

[III Polish name "jastrząb-gołębiarz"]

Holocene:

1. Biskupin [Early Middle Ages]

NIEZABITOWSKI LUBICZ- (1936): 157 [III]

2. Gniezno [Middle Ages]

NIEZABITOWSKI LUBICZ- (1939): 189 [III], 268

WALUSZEWSKA-BUBIEŃ (1969b): 158, 177

SOBOCIŃSKI, SCHRAMM (1972): 173 [II]

WALUSZEWSKA-BUBIEŃ (1984): 246

3. Szczecin [Early Middle Ages]

KUBASIEWICZ (1955): 74, 79 [II]

NOGALSKI (1984): 20-21, 54-55, 62-63, 87, Pl.V: Phot.11

4. Wrocław [Early Middle Ages]

MYCZKOWSKI (1960): 166 [I]

WALUSZEWSKA-BUBIEŃ (1981): 150-151

WALUSZEWSKA-BUBIEŃ (1984): 246

WALUSZEWSKA-BUBIEŃ (1985): 42, 52

5. Kruszwica [Early Middle Ages]

SOBOCIŃSKI (1964): 163 [II]

6. Bnin [Middle Ages]

WALUSZEWSKA-BUBIEŃ (1975d): 254, 255, 257

WALUSZEWSKA-BUBIEŃ (1984): 246

7. Krępsk [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1977a): 438, 443

WALUSZEWSKA-BUBIEŃ (1984): 246

8. Gwieździn [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1977a): 438, 448

WALUSZEWSKA-BUBIEŃ (1984): 246

9. Kałdus [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1980): 161

WALUSZEWSKA-BUBIEŃ (1984): 246

10. Legnica [Early Middle Ages]

WYROST et al. (1980): 590, 597-598

WALUSZEWSKA-BUBIEŃ (1984): 246

11. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1982): 167-168
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 42, 52
12. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
13. Kołobrzeg [Early Middle Ages]
NOGALSKI (1984): 20-21, 58-59, 62-63, 87, Pl. V: Phot. 9
14. Gdańsk [Early Middle Ages]
NOGALSKI (1984): 20-21, 60-61, 62-63, 87, Pl.V: Phot. 8, 10
15. Stare Drawsko [Middle Ages – Modern Ages]
KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 44
WALUSZEWSKA-BUBIEŃ (1984): 246
16. Dąbki [Mesolithic-Neolithic]
SOBOCIŃSKI (1984): 102
17. Mrowki [Middle Ages]
SOBOCIŃSKI, MAKOWIECKI (1987): 194 [II]
18. Nad Mosurem Starym Duża Cave, l. 3, 2 [Bronze Age, Late Holocene]
NADACHOWSKI et al. (1989): 505
19. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554
20. Koło [Late Middle Ages – Modern Ages]
KRUPSKA (in press b)
21. Międzyrzecz Wielkopolski [Middle Ages]
WYROST (MS) [II]

Pleistocene: 1. Mamutowa Cave, l. 2g [Vistulian]
BOCHEŃSKI (1981): 5-6

Buteo buteo (LINNAEUS, 1758)

- Holocene:
1. Rockshelter above Niedostępna Cave, l. 4/5 [Vistulian/Holocene]
BOCHEŃSKI (1974b): 24-26, 199, 206
BOCHEŃSKI (1988): Tbl. 7
 2. Krzesławice [Bronze Age]
BOCHEŃSKI (1974b): 24-26, 199, 206
 3. Legnica [Early Middle Ages]
WYROST et al. (1980): 590, 598

In text as *Buteo* spec., ... most probably *Buteo buteo*]

WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 42, 52

4. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1981): 151
WALUSZEWSKA-BUBIEŃ (1985): 42, 52
5. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
6. Kołobrzeg [Early Middle Ages]
NOGALSKI (1984): 21, 58-59, 64-65, Pl. V, Phot. 12
7. Stare Drawsko [Middle Ages]
KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 44
WALUSZEWSKA-BUBIEŃ (1984): 246
8. Nad Mosurem Starym Duża Cave, l. 3 [Bronze Age]
NADACHOWSKI et al. (1989a): 505
9. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554

Pleistocene: 1. Sępowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 48, Tbl. 7

Buteo buteo (LINNAEUS, 1758) aut *Accipiter gentilis* (LINNAEUS, 1758)

[I *Accipiter gentilis*, *Buteo buteo*]

[II *Accipiter* sp. or *Buteo* sp.]

Holocene: 1. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1971): 405-407

2. Szczecin [Early Middle Ages]
NOGALSKI (1980): 16, 25 [I]

Pleistocene: 1. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285 (juv.)

Aquila chrysaetos (LINNAEUS, 1758)

Holocene: 1. Janikowo [La Tène and period of Roman influences]
SOBOCIŃSKI, MAŃKOWSKI (1975): 6
WALUSZEWSKA-BUBIEŃ (1975a): 31

2. Węgry [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1976a): 70, 75
WALUSZEWSKA-BUBIEŃ (1984): 246

3. Brześć Kujawski [Neolithic]
BOGUCKI (1981): 3, 5

4. Stare Drawsko [Modern Ages]
KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 43 [cf.]
WALUSZEWSKA-BUBIEŃ (1984): 246

Aquila sp.

[1 Polish generic name "orzeł"]

- Holocene:**
1. Maszycka Cave, l. B [Mezolithic ??]
OSSOWSKI (1885): 37
 2. Szczecin-Mścięcino [Early Middle Ages]
KUBASIEWICZ (1955): 74, 79 [1]
(It is possible that these remains belonged to *Haliaeetus albicilla*)
 3. Dąbki [Mesolithic – Neolithic]
SOBOCIŃSKI (1984): 102
SOBOCIŃSKI (1986): 112

Aquila (Hieraetus) sp.

- Pliocene:**
1. Rębielice Królewskie 1 [MN 16]
JÁNOSSY (1974): 532, 533-534, Pl. XXIV Phot. 2-3.
BOCHEŃSKI (1989): 92

*Falconidae**Falco naumanni* FLEISCHER, 1818

- Holocene:**
1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554

Falco tinnunculus LINNAEUS, 1758

- Holocene:**
1. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1971): 405
WALUSZEWSKA-BUBIEŃ (1981): 153
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 43, 52
 2. Iwanowice [Neolithic/Bronze Age]
BOCHEŃSKI (1974b): 28-30, 199, 206 (cf.)
 3. Legnica [Early Middle Ages]
WYROST i in. (1980): 590, 598
WALUSZEWSKA-BUBIEŃ (1984): 246
WALUSZEWSKA-BUBIEŃ (1985): 43, 52
 4. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
 5. Nad Mosurem Starym Duża Cave, l. 4 [Neolithic]
NADACHOWSKI et al. (1989a): 505 (cf.)
 6. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983) 446

BOCHEŃSKI, TOMEK (1991): 554

7. Koło [Late Middle Ages - Modern Ages]

KRUPSKA (in press b)

Pleistocene:

1. Mamutowa Cave, l. 2 [Vistulian]

BOCHEŃSKI (1981): 6 (cf.)

2. Rockshelter at Zalas, l. 7 [Vistulian]

BOCHEŃSKI et al. (1985): 19 (cf.)

3. Obłazowa 2 [Vistulian]

NADACHOWSKI et al. (1993): 285

Falco tinnunculus atavus JÁNOSSY, 1972

Pleistocene:

1. Kozi Grzbiet [Middle Pleistocene: Mindel]

BOCHEŃSKI (1984): 182-183

BOCHEŃSKI (1989): 92

Falco vespertinus LINNAEUS, 1758

Holocene:

1. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI, TOMEK (1991): 554 (cf.)

Falco columbarius LINNAEUS, 1758

Holocene:

1. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI, TOMEK (1991): 554

Pleistocene:

1. Koziarnia Cave, l. 11 [Vistulian]

BOCHEŃSKI (1974b): 28, 199, 206, Pl. I: Phot. 5

BOCHEŃSKI (1988): Tbl. 7

2. Raj Cave, l. 10 [Vistulian]

BOCHEŃSKI (1974b): 28, 199, 206

3. Nietoperzowa Cave, l. 9 [Vistulian]

BOCHEŃSKI (1974b): 28, 199, 206

4. Zamkowa Dolna Cave, l. 6 [Vistulian]

BOCHEŃSKI (1974b): 28, 199, 206, Pl. I: Phot. 4

5. Sąspowska Zachodnia Cave, l. 3 [Vistulian]

BOCHEŃSKI (1988): 49, 72, Tbl. 7

Falco subbuteo LINNAEUS, 1758

Holocene:

1. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI, TOMEK (1991): 554

Falco peregrinus TUNSTALL, 1771

- Holocene: 1. Wrocław [Early Middle Ages]
WALUSZEWSKA (1985): 52
WALUSZEWSKA-BUBIEŃ (1985): 52
- Pleistocene: 1. Sąpowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 49, 72, Tbl. 7 (cf.)

Falco sp.[I *Falco* sp. (*columbarius* aut *tinnunculus*)]

- Holocene: 1. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246
- Pleistocene: 1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 32, 199, 206[I]
2. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285 [I] (juv.)

Falconiformes indet.

- Holocene: 1. Tunel Wielki Rockshelter, l. 1 [Late Holocene]
BOCHEŃSKI (1974b): 32, 199, 206
- Pleistocene: 1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 32, 199, 206
2. Raj Cave, l. 10 [Vistulian]
BOCHEŃSKI (1974b): 32, 199, 206
3. Rockshelter at Zalas, l. 7 [Vistulian]
BOCHEŃSKI et al. (1985): 19

*Phasianidae**Meleagris gallopavo* LINNAEUS, 1758

- Holocene: 1. Stare Drawsko [Early Middle Ages !?!, Modern Ages]
KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 47-48

The bone material under description is controversial for two reasons: (1) The authors note that the bones are smaller than the bones of the present-day female Turkey used for comparison; their dimensions lie considerably below those of the smallest specimen of the series of American wild females (STEADMAN 1980) and resemble the dimensions of the Peahen, whereas morphologically they correspond with the Turkey (on the basis of the photography published). (2) The Turkey is an American species and, admittedly, it did not turn up in Europe till the 16th century, although there are some indications of its presence in Europe as early as pre-Columbian times (BOKONYI & JÁNOSSY 1959). According to the authors, a part of the material coming from the Middle Ages to modern time is mixed. The Turkey remains may also suggest the Early Middle Ages. This however does not explain the differences in size.

2. Szamotuły [19th-20th cc.]
KRUPSKA (1987a): 24, 26

3. Człuchów [Modern Ages]
NOGALSKI, SAŁACIAK (1990): 52, 59-60
4. Poznań [Modern Ages]
NOGALSKI (1991a): 34, 39
5. Tykocin [Modern Ages]
NOGALSKI, KOSIŃSKA (1991): 26, 29-30

Lagopus lagopus (LINNAEUS, 1758)

[*I Tetrao lagopus*]

Lack of stratigraphic data [Pleistocene – Holocene]:

1. Mamutowa Cave
ROEMER (1883): 14 [I]

Holocene:

1. Koziarnia Cave, l. 1d [Early Holocene]
BOCHEŃSKI (1974b): 33-34, 199, 206
BOCHEŃSKI (1988): Tbl. 7
2. Raj Cave, l. 11A, 11B [Early and Late Holocene]
BOCHEŃSKI (1974b): 33-34, 199, 206
3. Rockshelter above Niedostępna Cave, l. 5 [Neolithic]
BOCHEŃSKI (1974b): 33-34, 199, 206
BOCHEŃSKI (1988): Tbl. 7
4. Mamutowa Cave, l. 1 [Early Holocene]
BOCHEŃSKI (1981): 6-7
5. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446

Error! In the paper by BOCHEŃSKI and TOMEK (1991) the determination corrected to *Perdix perdix*

Pleistocene:

1. Jaskinia Mamutowa, l. 2, 2g, 3, III, IV, VI, VII [Vistulian]
NIEZABITOWSKI LUBICZ- (1932): 183-184
HOYER (1937): 189
KRUKOWSKI (1939): 41
KOWALSKI (1951): 150
BOCHEŃSKI (1974a): 52, 53
BOCHEŃSKI (1974b): 33-34, 199, 206
BOCHEŃSKI (1981): 6-7
2. Okiennik Cave [Vistulian]
KRUKOWSKI (1939): 36
KOWALSKI (1951): 387
3. Koziarnia Cave, l. 10-18 [Vistulian]
BOCHEŃSKI (1974a): 52, 53

- BOCHEŃSKI (1974b): 33-34, 199, 206, Pl. II: Phot. 2-7
 BOCHEŃSKI (1977): 69 (Fig. 4)
 BOCHEŃSKI (1988): Tbl. 7
4. Raj Cave, l. 2-10 [Vistulian]
 BOCHEŃSKI (1974b): 33-34, 199, 206
 BOCHEŃSKI (1988): Tbl. 7
 5. Nietoperzowa Cave, l. 6-10 [Vistulian]
 BOCHEŃSKI (1974b): 33-34, 199, 206
 6. Rockshelter in Żytnia Skała, lower level of solifluction, II level of loess [Vistulian]
 BOCHEŃSKI (1974b): 33-34, 199, 206
 7. Zamkowa Dolna Cave, l. 6 [Vistulian]
 BOCHEŃSKI (1974a): 52, 53
 BOCHEŃSKI (1974b): 33-34, 199, 206
 8. Rockshelter above Niedostępna Cave, l. 2 [Vistulian]
 BOCHEŃSKI (1974b): 33-34, 199, 206
 BOCHEŃSKI (1988): Tbl. 7
 9. Ciasna Cave, l. 4 [Vistulian]
 BOCHEŃSKI (1974b): 33-34, 199, 206
 BOCHEŃSKI (1988): Tbl. 7
 10. Kozi Grzbiet [Middle Pleistocene: Mindel]
 BOCHEŃSKI (1984): 179-180
 BOCHEŃSKI (1989): 92
 11. Rockshelter at Zalas, l. 7, 9 [Vistulian]
 BOCHEŃSKI et al. (1985): 21
 12. Sąpowska Zachodnia Cave, l. 3 [Vistulian]
 BOCHEŃSKI (1988): 50, 72, Tbl. 7
 13. Cave in Dziadowa Skała, l. 7, 7/8, 8 [Vistulian]
 BOCHEŃSKI JR. (1990): 137
 14. Bełchatów [Middle Pleistocene: Ferdynandów Interstadial]
 WISZNIOWSKA (1991): 126-128 (cf.)
 15. Obłazowa 2 [Vistulian]
 NADACHOWSKI et al. (1993): 285, 287

Lagopus atavus JÁNOSSY, 1974

[*Lagopus lagopus atavus*]

Pliocene:

1. Rębielice Królewskie 1 [MN 16]
 JÁNOSSY (1974): 532, 534-536, Pl. XXIV: Phot. 4-8 [I]
 JÁNOSSY (1976): 33

BOCHEŃSKI (1977): 68 [I]
 BOCHEŃSKI (1989): 91, 92
 BOCHEŃSKI (1991): 564-570
 MLÍKOVSKÝ (1992): 439

2. Kielniki 3B [MN 17]

BOCHEŃSKI (1989): 91, 92
 BOCHEŃSKI (1991): 571-575

Lagopus mutus (MONTIN, 1776)

Holocene:

1. Koziarnia Cave, l. 1d [Early Holocene]
 BOCHEŃSKI (1974b): 35-36, 199, 206
 BOCHEŃSKI (1988): Tbl. 7
2. Raj Cave, l. 11A [Early Holocene], 11B [Late Holocene](?)
 BOCHEŃSKI (1974b): 35-36, 199, 206

Pleistocene:

1. Mamutowa Cave, l. 3, 2g, 2, IV, IX [Vistulian]
 NIEZABITOWSKI LUBICZ- (1932): 185
 HOYER (1937): 190
 BOCHEŃSKI (1974b): 35-36, 199, 206
 BOCHEŃSKI (1981): 7
2. Rockshelter in Puchacza Skała, loess formation III [Vistulian]
 KOWALSKI et al. (1965): 38 (cf.), 40
 BOCHEŃSKI (1974b): 35-36, 199, 206
3. Koziarnia Cave, l. 10-17 [Vistulian]
 BOCHEŃSKI (1974b): 35-36, 199, 206, Pl, II: Phot. 8-10
 BOCHEŃSKI (1977): 69 (Fig. 4)
 BOCHEŃSKI (1988): Tbl. 7
4. Raj Cave, l. 4-10 [Vistulian]
 BOCHEŃSKI (1974b): 35-36, 199, 206
5. Nietoperzowa Cave, l. 8, 10 [Vistulian]
 BOCHEŃSKI (1974b): 35-36, 199, 206
6. Rockshelter at Zalas, l. 7 [Vistulian]
 BOCHEŃSKI et al. (1985): 21-22 (cf.)
7. Obłazowa 2 [Vistulian]
 NADACHOWSKI et al. (1993): 285, 287

Lagopus lagopus (LINNAEUS, 1758) aut *Lagopus mutus* (MONTIN, 1776)

[I *Lagopus* sp.]

[II *Lagopus* ?]

[III *lagopus albus*, *tetrao albus*]

[IV Tétrás lagopède]

Lack of stratigraphic data [Pleistocene – Holocene]:

1. Mamutowa Cave, excavations of the seventies of 19th c.

ZAWISZA (1876): 132 [III]

ZAWISZA [ZAVISZA] (1878): 445 [IV]

It may be inferred from the distribution given that the author does not distinguish the species *L. lagopus* and *L. mutus*

2. Koziarnia Cave, l. 1a-c (earth heap after old excavation)

BOCHEŃSKI (1974b): 36-38, 158, 159

Holocene:

1. Koziarnia Cave, l. 1d [Early Holocene]

BOCHEŃSKI (1974b): 36-38, 199, 206

2. Raj Cave, l. 11A [Early Holocene]

BOCHEŃSKI (1974b): 36-38, 178, 199, 206

3. Rockshelter in Żytnia Skąta, clayey-rubble formation [Early Holocene]

BOCHEŃSKI (1974b): 169, Tbl. 67

4. Mamutowa Cave, l. 1 [Early Holocene]

BOCHEŃSKI (1981): 7

5. Nad Mosurem Starym Duza Cave, l. 4 [Neolithic]

NADACHOWSKI et al. (1989a): 505 [I]

Pleistocene:

1. Maszycka Cave, l. C ["dyluwium" Vistulian (?)]

OSSOWSKI (1885): 26 [II]

KOZŁOWSKI (1922): 35 [II]

KOWALSKI (1951): 243 [I]

2. Koziarnia Cave, l. 10-17 [Vistulian]

BOCHEŃSKI (1974b): 36-38, 199, 206

3. Mamutowa Cave, l. 2, 2g, 3, III-IX [Vistulian]

BOCHEŃSKI (1974b): 36-38, 199, 206

BOCHEŃSKI (1981): 7

4. Raj Cave, l. 2-10 [Vistulian]

BOCHEŃSKI (1974b): 36-38, 199, 206

5. Nietoperzowa Cave, l. 7/8-10 [Vistulian]

BOCHEŃSKI (1974b): 36-38, 199, 206

6. Zamkowa Dolna Cave, l. 6 [Vistulian]

BOCHEŃSKI (1974b): 36-38, 199, 206

7. Rockshelter in Puchacza Skała, loess formation III [Vistulian]
BOCHEŃSKI (1974b): 36-38, 199, 206
8. Rockshelter in Żytnia Skała, I level of loess, streaked loess,
less with rubble [Vistulian]
BOCHEŃSKI (1974b): 36-38, 199, 206
9. Rockshelter at Zalas, l. 9 [Vistulian]
BOCHEŃSKI et al. (1985): 22
10. Cave in Dziadowa Skala, l. 7, 8 [Vistulian]
BOCHEŃSKI JR. (1990): 137 [I]
11. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285[I]

Lagopus sp.

[I *Lyrurus* sp.]

[II *Lyrurus* sp. – ?*Lagopus* sp.]

[III *Lyrurus/Lagopus*]

Pliocene:

1. Węże 1 [MN 15]
JÁNOSSY (1974): 532 [I], 539-540 [II]
BOCHEŃSKI (1989): 92 [III]
BOCHEŃSKI (1991): 570

"*Lyrurus* sp."

Pliocene:

1. Węże 1 [MN 15]
BOCHEŃSKI (1989): 92

Error!: This is *Lagopus* sp. described by JÁNOSSY (1974) under two names (see *Lagopus* sp.)

Tetrao tetrrix LINNAEUS, 1758

[I *Lyrurus tetrrix*]

[II *Lylurus tetrrix*]

[III Polish name "cietrzew"]

Holocene:

1. Gniezno [Middle Ages]
NIEZABITOWSKI LUBICZ- (1939): 189 [III], 268 [I]
WALUSZEWSKA-BUBIEŃ (1969b): 158, 177, 183 [I]
SOBOCIŃSKI, SCHRAMM (1972): 173 [III]
WALUSZEWSKA-BUBIEŃ (1984): [I]
2. Klementowice [Neolithic]
KRYSIK (1957): 205, 206 [II, III]
3. Radacz [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1967): 195, Phot. 2 [I]

- WALUSZEWSKA-BUBIEŃ (1984): 247 [I]
4. Włocławek [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1969a): 154 [I]
WALUSZEWSKA-BUBIEŃ (1984): 247 [I]
 5. Rockshelter above Niedostępna Cave, l. 5 [Neolithic]
BOCHEŃSKI (1974b): 38-39, 199, 206 [I]
BOCHEŃSKI (1988): Tbl. 7 [I]
 6. Iwanowice [Neolithic/Bronze Age]
BOCHEŃSKI (1974b): 38-39, 199, 206 [I]
 7. Nakło [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1975c): 131-134 [I]
WALUSZEWSKA-BUBIEŃ (1984): 247 [I]
 8. Inowrocław [period of Roman influences]
WALUSZEWSKA-BUBIEŃ (1977c): 109 [I]
 9. Kamień Pomorski [Early Middle Ages]
NOGALSKI (1979a): 72, 77 [I]
 10. Bnin [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1979): 163, 166 [I]
 11. Kościelec Kujawski [ca 3265 BC]
SOBOCIŃSKI (1979): 118 [III]
 12. Legnica [Early Middle Ages]
WYROST et al. (1980): 590, 599 [I]
WALUSZEWSKA-BUBIEŃ (1984): 247 [I]
WALUSZEWSKA-BUBIEŃ (1985): [I]
 13. Cedynia [Early Middle Ages]
NOGALSKI (1981): 99 [I]
 14. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1981): 153-154 [I]
WALUSZEWSKA-BUBIEŃ (1984): 247 [I]
WALUSZEWSKA-BUBIEŃ (1985): 52 [I]
KRUPSKA (in press a) [I]
 15. Mamutowa Cave, l. 1 [Early Holocene]
BOCHEŃSKI (1981): 7-8 [I]
 16. Bronocice [Neolithic]
BOCHEŃSKI (1982): 159-160 [I]
 17. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1982): 169-171 [I]
WALUSZEWSKA-BUBIEŃ (1984): 247 [I]
WALUSZEWSKA-BUBIEŃ (1985): 52 [I]

18. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247 [I]
 19. Smuszewo [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247 [I]
 20. Stradow [Early Middle Ages]
TOMEK (1984): 121-123 [I]
 21. Szczecin [Early Middle Ages]
NOGALSKI (1984): 21-22, 54-55, 64-65, 88, Pl. VI: Phot. 2, 4, 5 [I]
 22. Wolin [Early Middle Ages]
NOGALSKI (1984): 21-22, 56-57, 64-65, 88, Pl. VI: Phot. 6 [I]
- In the caption of the photograph the specimen is by mistake referred to Kołobrzeg, where this species has not been found at all (NOGALSKI 1984)
23. Gdańsk [Early Middle Ages]
NOGALSKI (1984): 21-22, 60-61, 64-65, 88, Pl. VI: Phot. 1, 3 [I]
 24. Złotów [Early Middle Ages]
NOGALSKI, KOSIŃSKA (1987): 50, 51 [I]
 25. Nad Mosurem Starym Duża Cave, l. 4, 3, 2 [Neolithic – Late Holocene]
NADACHOWSKI et al. (1989a): 505
 26. Cave in Dziadowa Skala, l. 10 [undefined period of the Holocene]
BOCHEŃSKI JR. (1990): 138
 27. Poznań [Late Middle Ages]
NOGALSKI (1991a): 34, 36 [I]
 28. Lubin [Middle Ages]
KRUPSKA (1991): 9, 13 [I]
 29. Tykocin [Modern Ages]
NOGALSKI, KOSIŃSKA (1991): 26, 29 [I]
 30. Koło [Late Middle Ages - Modern Ages]
KRUPSKA (in press b) [I]
 31. Ciechanów [Late Middle Ages - Modern Ages]
NOGALSKI, KOSIŃSKA (in press b) [I]
 32. Bytom Odrzański [Early Middle Ages]
CHRZANOWSKA, WYROST (MS) [III]

Pleistocene:

1. Okiennik Cave [Vistulian]
KRUKOWSKI (1939): 36 [I]
KOWALSKI (1951): 387 [I]
2. Koziarnia Cave, l. 10-13 [Vistulian]
BOCHEŃSKI (1974b): 38-39, 199, 206, Pl. II: Phot. 1 [I]
BOCHEŃSKI (1988): Tbl. 7 [I]

3. Mamutowa Cave, l. 2, 2g, 3, III-VI [Vistulian]
BOCHEŃSKI (1974b): 38-39, 199, 206[I]
BOCHEŃSKI (1977): 69 [III]
BOCHEŃSKI (1981): 7-8 [I]
4. Raj Cave, l. 2, 4, 10/11 [Vistulian and boundary between Vistulian and Holocene]
BOCHEŃSKI (1974b): 38-39, 199, 206 [I]
5. Nietoperzowa Cave, l. 4, 5, 8, 10 [Vistulian]
BOCHEŃSKI (1974b): 38-39, 199, 206[I]
6. Rockshelter in Żytnia Skała, loess with rubble [Vistulian]
BOCHEŃSKI (1974b): 38-38, 199, 206[I]
7. Zamkowa Dolna Cave, l. 6 [Vistulian]
BOCHEŃSKI (1974b): 37-39, 199, 206[I]
8. Żabia Cave [Lower Biharian]
BOSAK et al. (1982): 221

This identification is a little controversial (see BOCHEŃSKI 1989, 1991): at that time *Tetrao partium* occurred in Europe and *T. tetrix* was not found; it is also possible that the bone fragment comes from upper sediments dated to the Late Pleistocene (not mentioned in the paper by BOSAK et al. 1982)

9. Sąpowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 50, 72, Tbl. 7 [I]
10. Nad Mosurem Starym Duża Cave, l. 5 [Vistulian]
NADACHOWSKI et al. (1989a): 505
11. Cave in Dziadowa Skała, l 3c, 5, 8 [Eemian, Vistulian]
BOCHEŃSKI JR. (1990): 138
12. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285, 287

Tetrao conjugens JÁNOSSY, 1974

Pliocene:

1. Węże 1 [MN 15]
JÁNOSSY (1974): 532, 537-538, Pl. XXIII: Phot. 9
BOCHEŃSKI (1977): 68
BOCHEŃSKI (1989): 91, 92
BOCHEŃSKI (1991): 574
MLÍKOVSKÝ (1992): 439

Tetrao praeurogallus JÁNOSSY, 1969[I *Tetrao conjugens* or *Tetrao praeurogallus*][II *Tetrao* aff. *praeurogallus*][III *Tetrao* cf. *praeurogallus*]Pleistocene: 1. Kozi Grzbiet [Middle Pleistocene: Mindel]

BOCHEŃSKI (1977): 69 [I]

BOCHEŃSKI (1984): 177-178 (cf.)

2. Zalesiaki 1A [Biharian]

BOCHEŃSKI (1989): 92

BOCHEŃSKI (1991): 574

Pliocene: 1. Rębielice Królewskie 1A [MN 16]

JÁNOSSY (1974): 532 [II], 538-539 [III]

BOCHEŃSKI (1989): 92[II]

The determination of this phalanx is wrong (see: BOCHEŃSKI (1991): 575). It belong to *Tetrao* sp.

2. Kadzielnia 1 [boundary between Pliocene and Pleistocene]

BOCHEŃSKI (1989): 92

BOCHEŃSKI (1991): 574

Tetrao urogallus LINNAEUS, 1758

[I Polish name "głuszc"]

[II French name "Coq de bruyère"]

Lack of stratigraphic data [Pleistocene – Holocene]:

1. Mamutowa Cave, excavations of the seventies of 19th c.

ZAWISZA [ZAVISZA] (1878): 445 [II]

2. Nietoperzowa Cave [Vistulian – Holocene]

ROEMER (1883): 28

3. Zbójecka Cave [Vistulian – Holocene]

ROEMER (1883): 28

4. Krakowska Cave [Vistulian - Holocene]

ROEMER (1883): 28

5. Sadlana Cave [Vistulian – Holocene]

ROEMER (1883): 28

Holocene: 1. Gniezno [Middle Ages]

NIEZABITOWSKI LUBICZ- (1939): 189, 268 [I]

WALUSZEWSKA-BUBIEŃ (1969b): 158, 177, 183

SOBOCIŃSKI, SCHRAMM (1972): 173 [I]

WALUSZEWSKA-BUBIEŃ (1984): 247

2. Gdańsk [Early Middle Ages]
 - JAWORSKI (1952): 91
 - KRYSIK (1955): 246 [I]
 - KRYSIK (1956a): 84
 - KRYSIK (1968): 10-11, 17 [17:1]
 - NOGALSKI (1984): 22-23, 60-61, 64-65, 88-89, Pl. VI: Phot. 7-9
3. Wrocław [Early Middle Ages]
 - MYCZKOWSKI (1960): 166
 - WALUSZEWSKA-BUBIEŃ (1971): 407
 - WALUSZEWSKA-BUBIEŃ (1981): 154
 - WALUSZEWSKA-BUBIEŃ (1984): 247
 - WALUSZEWSKA-BUBIEŃ (1985): 52
4. Ujście [Early Middle Ages]
 - CHMIELEWSKI (1961b): 114, 132 [I]
 - WALUSZEWSKA-BUBIEŃ (1975b): 86
 - WALUSZEWSKA-BUBIEŃ (1984): 247
5. Kruszwica [Early Middle Ages]
 - SOBOCIŃSKI (1964): 163 [I]
6. Opole [Early Middle Ages]
 - WALUSZEWSKA-BUBIEŃ (1965a): 135
 - WALUSZEWSKA-BUBIEŃ (1973): 194-197
 - WALUSZEWSKA-BUBIEŃ (1982): 171
 - WALUSZEWSKA-BUBIEŃ (1984): 247
 - WALUSZEWSKA-BUBIEŃ (1985): 52
7. Sąsiadka [Early Middle Ages]
 - KRYSIK (1966): 174
8. Wiślica [Early Middle Ages]
 - SOBOCIŃSKI (1968b): 178 [I]
 - WALUSZEWSKA-BUBIEŃ (1968c): 171
 - SOBOCIŃSKI (1971): 224 [I]
 - WALUSZEWSKA-BUBIEŃ (1984): 247
9. Ryczyn [Early Middle Ages]
 - BUBIENIOWA (1969): 210
 - WALUSZEWSKA-BUBIEŃ (1984): 247
 - WALUSZEWSKA-BUBIEŃ (1985): 52
10. Raj Cave, l. 11A [Early Holocene]
 - BOCHENSKI (1974b): 39-42, 199, 206

The bone found in layer 10 however comes from the overlying layer cf. BOCHENSKI 1974b, the footnote p. 179.

11. Rockshelter in Żytnia Skała, subsoil [Early Holocene]
BOCHEŃSKI (1974b): 39-42, 199, 206
12. Rockshelter above Niedostępna Cave, l. 5k, 6 [Neolithic, Late Holocene]
BOCHEŃSKI (1974b): 39-42, 199, 206
BOCHEŃSKI (1988): Tbl. 7
13. Nakło [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1975c): 134-136
WALUSZEWSKA-BUBIEŃ (1984): 247
14. Bnin [Hallstatt period and Middle Ages]
WALUSZEWSKA-BUBIEŃ (1975d): 257
WALUSZEWSKA-BUBIEŃ (1979): 163,
WALUSZEWSKA-BUBIEŃ (1984): 247
15. Barkowo [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 439
WALUSZEWSKA-BUBIEŃ (1984): 247
16. Gwieździn [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 448
WALUSZEWSKA-BUBIEŃ (1984): 247
17. Brodnica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977b): 97-98
WALUSZEWSKA-BUBIEŃ (1984): 247
18. Kościelec Kujawski [ca 3265 BC]
SOBOCIŃSKI (1979): 118 [I]
19. Kałdus [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1980): 161
WALUSZEWSKA-BUBIEŃ (1984): 247
20. Legnica [Early Middle Ages - Moden Ages]
WYROST et al. (1980): 590, 599
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 52
21. Brześć Kujawski [Neolithic]
BOGUCKI (1981): 3, 5
22. Mamutowa Cave, l. 1 [Early Holocene]
BOCHEŃSKI (1981): 8
23. Bronocice [Neolithic]
BOCHEŃSKI (1982): 160
24. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247

25. Topolno [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
26. Chmielno [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
27. Szczecin [Early Middle Ages]
NOGALSKI (1984): 22-23, 54-55, 64-65, 88-89
28. Kołobrzeg [Early Middle Ages]
NOGALSKI (1984): 22-23, 58-59, 64-65, 88-89, Pl. VI: Phot. 10
29. Stare Drawsko [Early Middle Ages, Modern Ages]
KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 44-45
WALUSZEWSKA-BUBIEŃ (1984): 247
30. Dobrzyń [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
31. Giecz [Early Middle Ages]
KRUPSKA (1986): 47, 50
32. Poznań [Late Middle Ages - Modern Ages]
KRUPSKA (1987a): 12, 13
SOBOCIŃSKI (1987c): 144
NOGALSKI (1991a): 34, 36
33. Złotów [Early Middle Ages]
NOGALSKI, KOSIŃSKI (1987): 50, 51
34. Nad Mosurem Starym Duża Cave, l. 3, 2 [Bronze Age, Late Holocene]
NADACHOWSKI et al. (1989): 505
35. Mylna Cave [Late Holocene ?]
TOMEK (1989): 608
36. Hlina [Late Holocene ?]
TOMEK (1989): 608
37. Cave in Dziadowa Skała, l. 10 [undefined period of the Holocene]
BOCHENSKI JR. (1990): 138
38. Człuchów [Middle Ages, Modern Ages]
NOGALSKI, SAŁACIAK (1990): 52, 54-58
39. Tykocin [Modern Ages]
NOGALSKI, KOSIŃSKA (1991): 26, 29
40. Gniew [Middle Ages, Modern Ages]
NOGALSKI (1992a): 50, 51, 52, 53
41. Mała Nieszawka [Late Middle Ages]
NOGALSKI et al. (1992): 81, 83, 84
42. Koło [Late Middle Ages - Modern Ages]
KRUPSKA (in press b) [I]

43. Bardo Śląskie [Late Middle Ages]

CHRZANOWSKA (in press) [1]

44. Ciechanów [Late Middle Ages – Modern Ages]

NOGALSKI, KOSIŃSKA (in press b)

45. Międzyrzecz Wielkopolski [Middle Ages]

WYROST (MS) [1]

46. Bytom Odrzański [Early Middle Ages]

CHRZANOWSKA, WYROST (MS)

Pleistocene:

1. Nietoperzowa Cave [Vistulian]

KOZŁOWSKI (1922): 34

The author refers the remains to the Magdalenian period; these are however the same materials as mentioned by ROEMER (1883) – see above

2. Mamutowa Cave, l. 2, 3 [Vistulian]

KRUKOWSKI (1939): 41

KOWALSKI (1951): 150

BOCHEŃSKI (1981): 8

3. Rockshelter in Ruska Skała [late Vistulian]

KRYSIK (1956c): 42, 42

4. Zamkowa Dolna Cave, l. 6 [Vistulian]

BOCHEŃSKI (1974b): 39-42, 199, 206

5. Rockshelter in Żytia Skała, loess with rubble [Vistulian]

BOCHEŃSKI (1974b): 39-42, 199, 206

6. Żabia Cave [Lower Biharian]

BOSAK et al. (1982): 221

This identification is a little controversial (see BOCHEŃSKI 1989: 94): it is possible that the remains come from the Late Pleistocene sediments (not mentioned in the paper by BOSAK et al. 1982)

7. Sąpowska Zachodnia Cave, l. 3 [Vistulian]

BOCHEŃSKI (1988): 50-51, 72, Tbl. 7

8. Cave in Dziadowa Skała, l. 3b, 3c, 4, 7, 8 [Eemian, Vistulian]

BOCHEŃSKI JR. (1990): 138-140

9. Obłazowa 2 [Vistulian]

NADACHOWSKI et al. (1993): 285, 287

Tetrao sp.

The following remains belong probably to 2 species of the genus *Tetrao* – one of them is most probably fossil.

[I Polish names "cietrzew samiec lub samica głuszca" (= male Black Grouse or female Capercaillie)]

[II *Tetrao* aff. *praeurogallus*]

[III *Tetrao* cf. *praeurogallus*]

Holocene: 1. Broniewice [3800-2600 B.C.]
SOBOCIŃSKI (1979): 118 [I]

Pliocene: 1. Rębielice Królewskie 1A [MN 16]
JÁNOSSY (1974): 532 [II], 538-539 [III]
BOCHEŃSKI (1977): 68
BOCHEŃSKI (1989): [II]
BOCHEŃSKI (1991): 574-575 [II]

Bonasa bonasia (LINNAEUS, 1758)

[I *Tetrastes bonasia*]

Holocene: 1. Rockshelter above Niedostępna Cave, l. 5 [Neolithic]
BOCHEŃSKI (1974b): 42-43, 199, 206 [I]
BOCHEŃSKI (1988): Tbl. 7 [I]
2. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1981): 153 [I]
WALUSZEWSKA-BUBIEŃ (1985): 52 [I]
3. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1982): 169 [I]
WALUSZEWSKA-BUBIEŃ (1984): 246 [I]
WALUSZEWSKA-BUBIEŃ (1985): 52 [I]
4. Nad Mosurem Starym Duża Cave, l. 3, 2 [Bronze Age, Late Holocene]
NADACHOWSKI et al (1989a): 505 [I]
5. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554
6. Lubiń [13th-14th cc.]
KRUPSKA (1991): 9, 13

Pleistocene: 1. Cave in Dziadowa Skała, l. 8 [Vistulian]
BOCHEŃSKI JR. (1990): 137-138

Bonasa praebonasia (JÁNOSSY, 1974)

Pleistocene: 1. Kozi Grzbiet [Middle Pleistocene: Mindel]
BOCHEŃSKI (1984): 181-182 (cf.)

Francolinus capeki LAMBRECHT, 1933[I *Francolinus capeki vilanyensis*]Pliocene:

1. Rębielice Królewskie 1A [MN 16]

JÁNOSSY (1974): 532, 540-547, Pl. XXIII: Phot. 1-6 [I]

BOCHEŃSKI (1977): 68 [I]

BOCHEŃSKI (1989): 93 [I – subspecies included in the note]

MLÍKOVSKÝ (1992): 440

Francolinus wenzensis JÁNOSSY, 1974[I *Francolinus capeki wenzensis*][II *Francolinus wenzensis* [sic]]Pliocene:

1. Węże 1 [MN 15]

JÁNOSSY (1974): 532, 540-547, Pl. XXIII: Phot. 7-8 [I]

BOCHEŃSKI (1977): 68 [I]

JÁNOSSY (1981): 380 [II]

In this work JÁNOSSY raised *Francolinus capeki wenzensis* JÁNOSSY, 1974, originally described as subspecies, to the rank of species on the basis of the materials from Deutsch-Altenburg.

BOCHEŃSKI (1989): 93 [I – subspecies included in the note]

MLÍKOVSKÝ (1992): 440

Francolinus minor JÁNOSSY, 1974[I *Francolinus (Lambrechtia) minor*]Pliocene:

1. Rębielice Królewskie 1A, 2 [MN 16]

JÁNOSSY (1974): 532, 547-549 [I]

BOCHEŃSKI (1977): 68

BOCHEŃSKI (1989): 93

MLÍKOVSKÝ (1992): 440

Francolinus sp.

[I in Polish "nie określony frankolin" (= not determined francolin)]

Boundary of Pliocene and Pleistocene:

1. Kadzielnia 1

JÁNOSSY (1974): 532

BOCHEŃSKI (1977): 68 [I]

BOCHEŃSKI (1989): 93

Perdix perdix (LINNAEUS, 1758)[I *Perdix cinerea*]

[II Polish name "kuropatwa"]

Lack of stratigraphic data [Pleistocene – Holocene]:

1. Sadlana Cave

ROEMER (1883): 28[I]

2. Nietoperzowa Cave

ROEMER (1883): 28 [I]

Additional remark: "Vier Metatarsen einer sehr kleinen Race" - and so perhaps confused with *Lagopus mutus*?)Holocene:

1. Biskupin [Lusatian Culture]

KRYSIK (1950b): 58, 64

2. Opole [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1965a): 135

WALUSZEWSKA-BUBIEŃ (1973): 198-199

WALUSZEWSKA-BUBIEŃ (1982): 171-172

WALUSZEWSKA-BUBIEŃ (1984): 247

WALUSZEWSKA-BUBIEŃ (1985): 52

3. Sąsiadka [Early Middle Ages]

KRYSIK (1966): 174

4. Gdańsk [Early Middle Ages]

KRYSIK (1968): 10-11, 17 [17: II]

NOGALSKI (1984): 24, 60-61, 64-65, 89, Pl. VI: Phot. 11

5. Gniezno [Middle Ages]

WALUSZEWSKA-BUBIEŃ (1969b): 158, 179

SOBOCIŃSKI, SCHRAMM (1972): 173 [II]

WALUSZEWSKA-BUBIEŃ (1984): 247

6. Wrocław [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1971): 407

WALUSZEWSKA-BUBIEŃ (1981): 154-155

WALUSZEWSKA-BUBIEŃ (1984): 247

WALUSZEWSKA-BUBIEŃ (1985): 52

KRUPSKA (in press a)

7. Poznań [Middle Ages, Modern Ages]

SOBOCIŃSKI (1973a): 281 [II]

WALUSZEWSKA-BUBIEŃ (1977d): 254-255

WALUSZEWSKA-BUBIEŃ (1984): 247

KRUPSKA (1987a): 12-15, 14

SOBOCIŃSKI (1987c): 144

- NOGALSKI (1991a): 34, 39
8. Kopana Cave, humus I. [Late Holocene]
BOCHEŃSKI (1974b): 44-45, 199, 206
9. Gwieździn [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 448
WALUSZEWSKA-BUBIEŃ (1984): 247
10. Bnin [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1979): 163, 165, 166, 167, 175
WALUSZEWSKA-BUBIEŃ (1984): 247
11. Legnica [Early Middle Ages]
WYROST et al. (1980): 590, 600
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 52
12. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446
BOCHEŃSKI, TOMEK (1991): 554
13. Dobrzyń [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
14. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
15. Kałdus [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
16. Pelplin-Maciejewo [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
17. Smuszewo [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
18. Szamotuły [19th-20th cc.]
KRUPSKA (1987b): 22-25, 24
19. Rockshelter in Biały Stream Valley [Late Holocene]
TOMEK (1989): 608
20. Lubin [Middle Ages]
KRUPSKA (1991): 9, 13
21. Gniew [Middle Ages – Modern Ages]
NOGALSKI (1992b): 60, 61, 64-65
25. Mała Nieszawka [Late Middle Ages]
NOGALSKI et al. (1992): 81, 83, 84
26. Bardo Śląskie [Late Middle Ages]
CHRZANOWSKA (in press) [II]

27. Międzyrzecz Wielkopolski [Middle Ages]
WYROST (MS) [II]

- Pleistocene: 1. Rockshelter in Ruska Skała [Late Vistulian]
KRYSIK (1956c): 42, 43

Coturnix coturnix (LINNAEUS, 1758)

- Holocene: 1. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1982): 172
WALUSZEWSKA-BUBIEŃ (1985): 52
2. Dużej Sowy Cave [Late Holocene]
BOCHENSKI et al. (1983): 446
BOCHENSKI, TOMEK (1991): 554
3. Gniew [Early Middle Ages]
NOGALSKI (1992c): 74, 76

- Pleistocene: 1. Mamutowa Cave, l. 2 [Vistulian]
BOCHENSKI (1974b): 45, 199, 206
2. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285, 287

Gallus gallus LINNAEUS, 1758

[I *Gallus domesticus*, and also *Gallus domesticus* BRISS.]

[II *Gallus domestica*]

[III *Gallus gallus domesticus*]

[IV *Gallus gallus f. domestica*, also *Gallus gallus domestica*]

[V abbreviations: *Gallus dom.* and *gallus dom.*]

[VI *Gallus domesticus* (L.) *fossilis* WOLDRICH]

[VII *Gallus foss.*]

[VIII Polish names and abbrev. "kura domowa, kura, kur dom."]

Lack of stratigraphic data [Pleistocene – Holocene]:

1. Zbójecka Cave
ROEMER (1883): 28
2. Cave at Gorenice
ROEMER (1883): 28
3. Sadlana Cave
ROEMER (1883): 28
4. Koziarnia Cave
ROEMER (1883): 28 [I]
BOCHENSKI (1974b): 46-47, 199, 206 [earth heap after old excavations]

5. Mamutowa Cave (earth heap after old excavation)

BOCHEŃSKI (1981): 8

Holocene:

1. Borsucza Cave [Late Holocene ?]

OSSOWSKI (1880): 55 [v]

2. Nad Galoską Cave [Holocene - not determined more exactly]

OSSOWSKI (1881): 23 [VIII]

3. Na Łopiankach Cave [Mesolithic?, Neolithic?]

OSSOWSKI (1881): 36 [v]

4. Maszycka Cave, I. B [Mesolithic ??]

OSSOWSKI (1885): 37 [I]

KOWALSKI (1951): 243 [I]

5. Biskupin [Early Middle Ages]

NIEZABITOWSKI LUBICZ- (1936): 153-154 [VIII]

NIEZABITOWSKI LUBICZ- (1938): 93, 103 [VIII]

6. Gniezno [Early Middle Ages - Modern Ages]

NIEZABITOWSKI LUBICZ- (1937): 6, 9 [VIII]

NIEZABITOWSKI LUBICZ- (1939): 189, 251-257 [VIII]

WALUSZEWSKA-BUBIEŃ (1969b): 158, 161-166, 171, 174, 179-180, 181, 182, 183, 184 [III]

SOBOCIŃSKI, SCHRAMM (1972): 173 [VIII]

SCHRAMM (1974b): 260, 261 [VIII]

WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]

7. Lubicz [Early Middle Ages]

NIEZABITOWSKI LUBICZ- (1949): 137 [VIII]

8. Gdańsk [Early Middle Ages]

JAWORSKI (1952): 89 [v]

KRYSIK (1955): 246 [VIII]

KRYSIK (1956a): 80-82

KRYSIK (1968): 10-11, 14

NOGALSKI (1984): 10-11, 60-61, 62-63, 66-73, Pl. I: Phot. 1-9 [I]

9. Szczecin [Lusatian Culture and Early Middle Ages]

KUBASIEWICZ (1955): 74, 78 [I]

KUBASIEWICZ (1960): 268 [I]

KUBASIEWICZ (1963): 225 [I]

NOGALSKI (1980): 19 [IV]

NOGALSKI (1984): 10-11, 54-55, 62-63, 66-73 [I]

10. Bródno Stare [Early Middle Ages]

KRYSIK (1956b): 97

11. Wolin [Early Middle Ages]
KUBASIEWICZ (1956): 218 [I]
NOGALSKI (1984): 10-11, 56-57, 62-63, 66-73 [I]
12. Milicz [Early Middle Ages]
KUBASIEWICZ (1957a): 85 [VIII]
KUBASIEWICZ (1957b): 180 [VIII], 192 [I]
13. Słupca [Lusatian Culture]
CHMIELEWSKI (1958): 134 [II (?)]
14. Poznań [period of Roman influences, Early Middle Ages –20th c.]
CHMIELEWSKI K. et al. (1958): 67 [v], 70 [II], 74 [v]
ŚWIEŻYŃSKI (1961): 119 [VIII], 120 [v]
CHMIELEWSKI (1961a): 113, 120, 123, 130, 133, 136 [II]
SOBOCIŃSKI (1973a): 281 [VIII]
WALUSZEWSKA-BUBIEŃ (1977d): 251-254 [IV]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
KRUPSKA (1987a): 13, 15 [IV]
SOBOCIŃSKI (1987c): 144 [IV]
NOGALSKI (1991a): 34, 39
15. Gardziec [Early Middle Ages]
KUBASIEWICZ (1959): 158 [VIII]
16. Cedynia [period of Roman influences, Early Middle Ages]
KUBASIEWICZ, GAWLIKOWSKI (1959): 154 [I ?]
KUBASIEWICZ, GAWLIKOWSKI (1962): 443 [I]
NOGALSKI (1981): 97-98, Fig. 5.4 [IV]
17. Ryczyn [Early Middle Ages]
SOBOCIŃSKI (1960a): 143 [VIII]
BUBIENIOWA (1969): 210 [III]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
WALUSZEWSKA-BUBIEŃ (1985): 53 [IV]
18. Daleszyn [Early Middle Ages]
SOBOCIŃSKI (1960b): 92, 93 [VIII]
19. Ujście [Early Middle Ages]
CHMIELEWSKI (1961b): 114, 118, 126, 128, 131 [II]
WALUSZEWSKA-BUBIEŃ (1975b): 80-85 [IV]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
20. Słup [period of Roman influences]
SOBOCIŃSKI (1961a): 162 [VIII]
21. Bonikowo [Early Middle Ages]
SOBOCIŃSKI (1961b): 772 [VIII]

- SOBOCIŃSKI (1963a): 310, 311, 313, 318 [VIII]
22. Wrocław [Early Middle Ages]
MYCZKOWSKI (1962): 15 [VIII]
WALUSZEWSKA-BUBIEŃ (1971): 397-402
WALUSZEWSKA-BUBIEŃ (1981): 143
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
WALUSZEWSKA-BUBIEŃ (1985): 53 [IV]
KRUPSKA (in press a) [IV]
23. Kruszwica [Early Middle Ages]
SOBOCIŃSKI (1964): 156, 163 [VIII]
WALUSZEWSKA-BUBIEŃ (1965b): 150-151, Phot. 1, 2 [I]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
24. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965a): 135 [III]
WALUSZEWSKA-BUBIEŃ (1973): 185-194 [IV]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
WALUSZEWSKA-BUBIEŃ (1985): 53 [IV]
25. Otomin [Early Middle Ages]
KUBASIEWICZ (1965): 309 [I]
26. Sąsiadka [Early Middle Ages]
KRYSIĄK (1966): 174, 184
27. Radacz [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1967): 191-194, Phot. 1 [III]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
28. Siemowo [Early Middle Ages]
GODYNICKI, WILAND (1967): 182 [VIII]
29. Strachów [Early Middle Ages – Recent]
KUBASIEWICZ (1967): 383 [VIII]
30. Szeligi [Early Middle Ages]
GOGYNICKI (1967): 354 [VIII]
31. Ogrodzieniec [Modern Ages]
KUBASIEWICZ, ŁABĘCKI (1967): 65 [VIII]
32. Wiślica [Early Middle Ages]
SOBOCIŃSKI (1968b): 178 [VIII]
WALUSZEWSKA-BUBIEŃ (1968c): 170, 172-173, Phot. 1, 2 [III]
SOBOCIŃSKI (1971): 224 [VIII]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
33. Świecie [Middle Ages]
SOBOCIŃSKI (1968a): 330 [VIII]

34. Włocławek [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1969a): 151-153 [III]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
35. Kaszowo [Early Middle Ages]
SOBOCIŃSKI (1973b): 257 [VIII]
36. Kotlin [Lusatian Culture]
SCHRAMM (1974a): 139 [IV]
37. Rockshelter in Żytnia Skąła, humus I. [Late Holocene]
BOCHEŃSKI (1974b): 46-47, 199, 206
38. Rockshelter above Niedostępna Cave, I. 5, 6 [Neolithic, Late Holocene]
BOCHEŃSKI (1974b): 46-47, 199, 206
BOCHEŃSKI (1988): Tbl. 7
39. Kopana Cave, humus I. [Late Holocene]
BOCHEŃSKI (1974b): 46-47, 199, 206
40. Tunel Wielki Rockshelter [Modern Ages]
BOCHEŃSKI (1974b): 46-47, 199, 206
BOCHEŃSKI (1988): 51, Tbl. 7
41. Rockshelter below Tunel Wielki, humus I. [Late Holocene]
BOCHEŃSKI (1974b): 46-47, 199, 206
BOCHEŃSKI (1988): Tbl. 7
42. Dzwonnica Cave, humus I. [Late Holocene]
BOCHEŃSKI (1974b): 46-47, 199, 206
43. Janikowo [La Tène and period of Roman influences]
SOBOCIŃSKI, MAŃKOWSKI (1975): 6 [VIII]
WALUSZEWSKA-BUBIEŃ (1975a): 30-31 [IV]
44. Nakło [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1975c): 129-131 [IV]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
45. Bnin [Middle Ages]
WALUSZEWSKA-BUBIEŃ (1975d): 254, 254-255, 256, 257 [IV]
WALUSZEWSKA-BUBIEŃ (1979): 163, 166, 167, 168-173 [IV]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
46. Chojnice [Middle Ages]
KRANZ (1976): 3 [VIII]
WALUSZEWSKA-BUBIEŃ (1977a): 43, 449-450 [IV]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
47. Szarlej [Early Middle Ages]
SOBOCIŃSKI (1976a): 18 [VIII]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]

48. Kobylniki [Hallstatt-La Tène period]
SOBOCIŃSKI (1976b): 55 [VIII]
49. Węgry [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1976a): 70, 72-74 [IV]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
50. Żukowice [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1976b): 80, 81-85 [IV]
51. Bruszczewo [Bronze Age]
SOBOCIŃSKI (1977): 61 [VIII]
52. Krępsk [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 439 [IV]
WALUSZEWSKA-BUBIEŃ (1984): 246
53. Charzykowy [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 443-444 [IV]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
54. Gwieździn [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 444-447, 449 [IV]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
55. Stary Zamek [Early Middle Ages]
CHRZANOWSKA (1977): 9 [IV]
56. Brodnica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977b): 93, 95 [IV]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
57. Inowrocław [period of Roman influences – Late Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977c): 103, 106, 109, 110, 111 [IV]
58. Kamień Pomorski [Early Middle Ages]
NOGALSKI (1979a): 72, 71-74 [IV]
59. Gorzędziej [Early Middle Ages]
NOGALSKI (1979b): 81-85 [IV]
60. Mietlica [Early Middle Ages]
JERNIGAN, SOBOCIŃSKI (1979): 37 [VIII]
JERIGAN MALONEY, SOBOCIŃSKI (1983): 73 [IV]
61. Złotów [Early Middle Ages]
JANASZEK, SOBOCIŃSKI (1979): 49 [VIII]
NOGALSKI, KOSIŃSKA (1987): 50, 52 [IV]
62. Jedwabno [Early Middle Ages]
SOBOCIŃSKI (1980b): 73 [VIII]
63. Kałdus [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1980): 161 [IV]

- WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
64. Legnica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
WALUSZEWSKA-BUBIEŃ (1985): 53 [IV]
65. Łyszkowice [Przeworsk Culture]
SOBOCIŃSKI (1981): 42 [VIII]
66. Jaskinia Dużej Sowy [Late Holocene]
BOCHEŃSKI et al. (1983): 446
BOCHEŃSKI, TOMEK (1991): 554
67. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
68. Jankowo Wielkopolskie [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
69. Dobrzyń [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
70. Topolno [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
71. Pelplin-Maciejewo [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
72. Lubiszewo [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
73. Chmielno [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
74. Pruszcz Gdański [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
75. Smuszewo [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
76. Stradów [Early Middle Ages]
TOMEK (1984): 122-123
77. Kołobrzeg [Early Middle Ages]
NOGALSKI (1984): 10-11, 58-59, 62-63, 66-73 [I]
78. Stare Drawsko [Early Middle Ages - Modern Ages]
KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 45-47
WALUSZEWSKA-BUBIEŃ (1984): 246 [IV]
79. Dąbrówka [Late Middle Ages]
BENECKE (1986): 13-14
80. Giecz [Early Middle Ages]
KRUPSKA (1986): 50-51

81. Łącko [Early Middle Ages]
MAKOWIECKI (1986): 63 [VIII]
82. Moroczyn [Late Holocene]
BOCHEŃSKI et al. (1987): 322
83. Szamotuły [Late Middle Ages - Recent]
KRUPSKA (1987b): 24, 26 [IV]
84. Konary [Przeworsk Culture]
SOBOCIŃSKI (1987b): 120 [VIII]
85. Mrówki [Middle Ages]
SOBOCIŃSKI, MAKOWIECKI (1987): 194 [VIII]
86. Myślibórz [Early Middle Ages]
WYROST, MOLENDĄ (1987): 218 [IV]
87. Cave in Dziadowa Skała, l. 8 - layer mixed with the overlying
[Vistulian/Holocene], l. 9, 10, 11 [undefined periods of the Holocene]
BOCHEŃSKI JR. (1990): 140-141
88. Lembarg [Early Middle Ages]
MAKOWIECKI (1990): 28 [IV]
89. Człuchów [Middle Ages – Modern Ages]
NOGALSKI, SAŁACIAK (1990): 52, 59 [IV]
90. Piekary and Wola Piekarska [Middle Ages]
SOBOCIŃSKI, KRUSZONA (1990): 140 [VIII]
91. Gronowo [Early Middle Ages]
MAKOWIECKI, LESZCZYSZYN (1990): 146
92. Lubin [Early Middle Ages – Modern Ages]
KRUPSKA (1991): 9, 13-14
93. Mała Nieszawka [Late Middle Ages]
NOGALSKI (1991): 18, 19-22 [IV]
94. Tykocin [Late Middle Ages – Modern Ages]
NOGALSKI, KOSIŃSKA (1991): 26, 29
95. Gniew [Early Middle Ages – Modern Ages]
NOGALSKI (1992a): 50, 51, 53-54 [IV]
NOGALSKI (1992b): 60, 61, 65-67 [IV]
NOGALSKI (1992c): 74, 75, 76 [IV]
96. Tądów Górny [Przeworsk Culture]
SOBOCIŃSKI, MAKOWIECKI (1992): 204, 206 [VIII]
97. Koło [Late Middle Ages – Modern Ages]
KRUPSKA (in press b) [IV]
98. Bardo Śląskie [Late Middle Ages]
CHRZANOWSKA (in press) [IV]

99. Chełm-Bielawin [Early Middle Ages]

NOGALSKI, KOSIŃSKA (in press a) [IV]

100. Ciechanów [Late Middle Ages – Modern Ages]

NOGALSKI, KOSIŃSKA (in press b) [IV]

Pleistocene: 1. Jaskinia Maszycka l. C ["dyluwium" =? Vistulian (???)]

OSSOWSKI (1885): 26 [VI]

KOZŁOWSKI (1922): 35 [VII]

The author mentions the remains after OSSOWSKI and refers them to the Magdalenian Culture.

Miophasianus medius (MILNE-EDWARDS, 1869)[I *Myophsianus*]Miocene: 1. Przeworno [MN 7]

BOCHEŃSKI (1977): 68, ryc. 2 [I]

BOCHEŃSKI (1987): 71-80, Pl. XVII

Phasianus colchicus LINNAEUS, 1758Holocene: 1. Rockshelter in Żytunia Skała [Late Holocene]

BOCHEŃSKI (1974b): 45-46, 199, 206 (cf.)

Pavo cristatus LINNAEUS, 1758[I *Pavo cristatus* f. *domestica*]Holocene: 1. Rockshelter below Tunel Wielki, humus l. [Late Holocene]

BOCHEŃSKI (1974b): 47, 199, 206

BOCHEŃSKI (1988): Tbl. 7

2. Opole [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1982): 168-169

WALUSZEWSKA-BUBIEŃ (1985): 46, 52 [I]

3. Mała Nieszawka [Late Middle Ages]

NOGALSKI et al. (1992): 81, 83, 84

Galliformes indet.Holocene: 1. Koziarnia Cave, earth heap after old excavations and humus l.

BOCHEŃSKI (1974b): 47, 199, 206

2. Nad Mosurem Starym Duża Cave, l. 3, 2 [Bronze Age, Late Holocene]

NADACHOWSKI et al. (1989a): 505

3. Cave in Dziadowa Skała, l. 10, 11 [undefined periods of the Holocene]

BOCHEŃSKI JR. (1990): 141

4. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI, TOMEK (1991): 554

- Pleistocene:
1. Zamkowa Dolna Cave, l. 6 [Vistulian]
BOCHEŃSKI (1974b): 47, 199, 206
 2. Cave in Dziadowa Skała, l. 8 [Vistulian]
BOCHEŃSKI JR. (1990): 141

Gruidae

Grus grus (LINNAEUS, 1758)

[I *Grus*]

[II *Megalornis grus*]

[III Polish generic name "żuraw"]

- Holocene:
1. Biskupin [Lusatian Culture]
NIEZABITOWSKI LUBICZ- (1938): 94 [II]
 2. Kruszwica [Middle Ages]
SOBOCIŃSKI (1964): 163 [III]
KRUPSKA (1987c): 32
 3. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965a): 136
WALUSZEWSKA-BUBIEŃ (1973): 199
WALUSZEWSKA-BUBIEŃ (1982): 172-173
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 52
KRUPSKA (1987c): 32
 4. Sądka [Early Middle Ages]
KRYSIK (1966): 174 [I]
 5. Radacz [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1967): 195
WALUSZEWSKA-BUBIEŃ (1984): 247
 6. Wiślica [Early Middle Ages]
SOBOCIŃSKI (1968b): 178 [III]
WALUSZEWSKA-BUBIEŃ (1968c): 171
SOBOCIŃSKI (1971): 224 [III]
WALUSZEWSKA-BUBIEŃ (1984): 247
KRUPSKA (1987c): 32
 7. Włocławek [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1969a): 154
KRUPSKA (1987c): 32
 8. Gniezno [Middle Ages]
WALUSZEWSKA-BUBIEŃ (1969b): 158, 177, 183

- SOBOCIŃSKI, SCHRAMM (1972): 173 [III]
WALUSZEWSKA-BUBIEŃ (1984): 247
KRUPSKA (1987c): 32
9. Ryczyn [Early Middle Ages]
BUBIENIOWA (1969): 210
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 52
10. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1971): 407
WALUSZEWSKA-BUBIEŃ (1981): 155
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 52
KRUPSKA (1987c): 32
11. Janikowo [La Tène and period of Roman influences]
SOBOCIŃSKI, MAŃKOWSKI (1975): 6
WALUSZEWSKA-BUBIEŃ (1975a): 31
KRUPSKA (1987c): 32
12. Ujście [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1975b): 90
WALUSZEWSKA-BUBIEŃ (1984): 247
KRUPSKA (1987c): 32
13. Gwieździn [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 449
WALUSZEWSKA-BUBIEŃ (1984): 247
KRUPSKA (1987c): 32
14. Inowrocław [period of Roman influences – Late Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977c): 109, 111
KRUPSKA (1987c): 32
15. Bnin [Bronze Age, Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1979): 163, 166, 175
WALUSZEWSKA-BUBIEŃ (1984): 247
KRUPSKA (1987c): 32
16. Kałdus [2650-2400 BP and Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1980): 161, 162
KRUPSKA (1987c): 32
17. Legnica [Early Middle Ages]
WYROST et al. (1980): 591, 600
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 52

- KRUPSKA (1987c): 32
18. Cedynia [Early Middle Ages]
NOGALSKI (1981): 99
19. Bronocice [Neolithic]
BOCHEŃSKI (1982): 160-164, Tbl. I.
20. Szarlej [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
21. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
KRUPSKA (1987c): 32
22. Stradów [Early Middle Ages]
TOMEK (1984): 123-124
23. Szczecin [Early Middle Ages]
NOGALSKI (1984): 24-25, 54-55, 64-65, 89, Pl. VII: Phot. 1
24. Stare Drawsko [Early Middle Ages – Modern Ages]
KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 49, Fig. 7
WALUSZEWSKA-BUBIEŃ (1984): 247
KRUPSKA (1987c): 32
25. Dąbki [Mesolithic – Neolithic]
SOBOCIŃSKI (1984): 102
SOBOCIŃSKI (1986): 112
26. Łącko [Early Middle Ages]
MAKOWIECKI (1986): 63 [III]
27. Szamotuły [14th-16th cc.]
KRUPSKA (1987b): 24, 26
28. Konary [Przeworsk Culture]
SOBOCIŃSKI (1987b): 120 [III]
29. Węgierce [ca 6000 BP]
MAKOWIECKI (1989): 24 [III]
30. Gródek Nadbużny [Funnel Beaker Culture]
GUMIŃSKI (1989): 33 [III]
31. Człuchów [Middle Ages – Modern Ages]
NOGALSKI, SAŁACIAK (1990): 52, 60
32. Lubin [Middle Ages]
KRUPSKA (1991): 9, 14
33. Koło [Late Middle Ages – Modern Ages]
KRUPSKA (in press b)
34. Ciechanów [Late Middle Ages – Modern Ages]
NOGALSKI, KOSIŃSKA (in press b)

34. Międzyrzecz Wielkopolski [Middle Ages]
WYROST (MS) [III]

- Pleistocene: 1. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285, 287

Grus sp.

[I *Grus* (array of *G. grus*)]

[II *Grus* sp. (z grupy *grus*) (= from the group of *grus*)]

- Pliocene: 1. Rębielice Królewskie 1A [MN 16]
JÁNOSSY (1974): 532, 550 [I]
BOCHEŃSKI (1989): 93 [II]

Rallidae

Rallus aquaticus LINNAEUS, 1758

- Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446
BOCHEŃSKI, TOMEK (1991): 554
2. Nad Mosurem Starym Duża Cave, l. 4, 3 [Neolithic, Bronze Age]
NADACHOWSKI et al. (1989a): 505

- Pleistocene: 1. Mamutowa Cave, l. 2, 3 [Vistulian]
BOCHEŃSKI (1974b): 48-51, 199, 206
BOCHEŃSKI (1981): 8
2. Zamkowa Dolna Cave, l. 6. [Vistulian]
BOCHEŃSKI (1974b): 48-51, 199, 206, Pl. III: Phot. 1

Crex crex (LINNAEUS, 1758)

- Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446
BOCHEŃSKI, TOMEK (1991): 554
2. Stradów [Early Middle Ages]
TOMEK (1984): 124-125
3. Nad Mosurem Starym Duża Cave, w. 4, 3 [Neolithic, Bronze Age]
NADACHOWSKI et al. (1989a): 505
4. Cave in Dziadowa Skała, l. 9 [undefined period of the Holocene]
BOCHEŃSKI JR. (1990): 141

- Pleistocene: 1. Mamutowa Cave, l. 2, 2g [Vistulian]
BOCHEŃSKI (1974b): 51, 199, 206
BOCHEŃSKI (1981): 9

2. Sąspowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 51, 72, Tbl. 7
3. Nad Mosurem Starym Duża Cave, l. 5 [Vistulian]
NADACHOWSKI et al. (1989a): 505
4. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285

Porzana porzana (LINNAEUS, 1766)

- Holocene:**
1. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1982): 174
WALUSZEWSKA-BUBIEŃ (1985): 47, 52
KRUPSKA (1987c): 32, 37
 2. Dąbrówka [Late Middle Ages]
BENECKE (1986): 14
 3. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554

- Pleistocene:**
1. Mamutowa Cave, l. 2, 2g [Vistulian]
BOCHEŃSKI (1974b): 51, 199, 206, Pl. III: Phot. 2
 2. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 284, 285

Gallinula chloropus (LINNAEUS, 1758)

- Holocene:**
1. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1982): 174
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 47, 52
KRUPSKA (1987c): 32, 37
 2. Rockshelter in Biały Stream Valley [Late Holocene ?]
TOMEK (1989): 608
 3. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554

- Pleistocene:**
1. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285, 287

Fulica atra LINNAEUS, 1758

[I Polish name "łyśka"]

- Holocene:**
1. Gniezno [Middle Ages]
WALUSZEWSKA-BUBIEŃ (1969b): 158, 179
WALUSZEWSKA-BUBIEŃ (1984): 247

- KRUPSKA (1987c): 32, 37
2. Ujście [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1975b): 90
WALUSZEWSKA-BUBIEŃ (1984): 247
KRUPSKA (1987c): 32, 37
 3. Cedynia [Early Middle Ages]
NOGALSKI (1981): 99-100
 4. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446
BOCHEŃSKI, TOMEK (1991): 554
 5. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
KRUPSKA (1987c): 32, 37
 6. Szczecin [Early Middle Ages]
NOGALSKI (1984): 25-26, 54-55, 64-65, 90, Pl. VII: Phot. 2 (part), 3, 4
 7. Gdańsk [Early Middle Ages]
NOGALSKI (1984): 25-26, 60-61, 64-65, 90, Pl. VII: Phot. 2 (part)
 8. Dąbki [Mesolithic – Neolithic]
SOBOCIŃSKI (1986): 112
 9. Kruszwica [Middle Ages]
KRUPSKA (1987c): 32, 37-38
 10. Międzyrzecz Wielkopolski [Middle Ages]
WYROST (MS) [I]

Pleistocene:

1. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285, 287

Otididae

Otis tarda LINNAEUS, 1758

[I in Polish "prawdopodobnie drop" (= probably Great Bustard)]

Holocene:

1. Szczepankowice [the first part of Bronze Age ?]
SOBOCIŃSKI (1963b): 80
2. Poznań [Middle Ages]
SOBOCIŃSKI (1973a): 281 [I]
3. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1981): 155
WALUSZEWSKA-BUBIEŃ (1985): 46, 52
KRUPSKA (1987c): 32, 33

4. Szamotuły [14th-16th cc.]

KRUPSKA (1987b): 24, 27

Pleistocene:

1. Obłazowa 2 [Vistulian]

NADACHOWSKI et al. (1993): 285, 287

Otis tetrax LINNAEUS, 1758Pleistocene:

1. Obłazowa 2 [Vistulian]

NADACHOWSKI et al. (1993): 285, 287

*Charadriidae**Vanellus vanellus* (LINNAEUS, 1758)Holocene:

1. Raj Cave, l. 11A [Early Holocene]

BOCHEŃSKI (1974b): 58, 199, 206

2. Mamutowa Cave, l. 1. [Early Holocene]

BOCHEŃSKI (1981): 9

3. Brześć Kujawski [Neolithic]

BOGUCKI (1981): 3, 5

4. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI et al. (1983): 446

BOCHEŃSKI, TOMEK (1991): 554

Vanellus vanellus (LINNAEUS, 1758) aut *Pluvialis squatarola* (LINNAEUS, 1758)[I *V. vanellus* vel *Squatarola squatarola*]Pleistocene:

1. Mamutowa Cave, l. 2 [Vistulian]

BOCHEŃSKI (1974b): 61, 199, 206 [I]

2. Raj Cave, l. 6/10, 10 [Vistulian]

BOCHEŃSKI (1974b): 61, 199, 206 [I]

Pluvialis apricaria (LINNAEUS, 1758)[I *Charadrius apricarius*]Holocene:

1. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI, TOMEK (1991): 554

Pleistocene:

1. Mamutowa Cave, l. 2 [Vistulian]

BOCHEŃSKI (1974b): 53-57, 199, 206, Pl.III: Phot.4 [I]

BOCHEŃSKI (1981): 9,

2. Obłazowa 2 [Vistulian]

NADACHOWSKI et al. (1993): 285 (cf.)

Pluvialis squatarola (LINNAEUS, 1758)[I *Squatarola squatarola*]

[II Polish name "siewnica"]

- Holocene:** 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554
- Pleistocene:** 1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 55-60, 199, 206, [I]
BOCHEŃSKI (1977): 69 [II]
2. Raj Cave, l. 4 [Vistulian]
BOCHEŃSKI (1974b): 55-60, 199, 206, Pl.III: Phot.3 [I]
3. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 285, 287 (cf., juv.)

Pluvialis apricaria (LINNAEUS, 1758) aut *Pluvialis squatarola* (LINNAEUS, 1758)[I *Charadrius apricarius* vel *Squatarola squatarola*]

- Pleistocene:** 1. Raj Cave, l. 10 [Vistulian]
BOCHEŃSKI (1974b): 58-60, 199, 206 [I]

Charadrius hiaticula LINNAEUS, 1758

- Holocene:** 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554 (cf.)

- Pleistocene:** 1. Rockshelter at Zalas [Late Vistulian]
BOCHEŃSKI et al. (1985): 22-23

Eudromias sp.[I *Charadrius* (array of *Ch. morinellus*)][II *Eudromias* sp. (z grupy *morinellus*) (= of group *morinellus*)]

- Pliocene:** 1. Rębelice Królewskie 1A [MN 16]
JÁNOSSY (1974): 532, 550-551 [I]
BOCHEŃSKI (1989): 93 [II]

Eudromias morinellus (LINNAEUS, 1758)[I *Charadrius morinellus*]

- Pleistocene:** 1. Koziarnia Cave, l. 11 [Vistulian]
BOCHEŃSKI (1974b): 52-53, 199, 206, Pl.III: Phot. 5, 6 [I]
2. Mamutowa Cave, l. 4 [Vistulian]
BOCHEŃSKI (1981): 9

Charadriidae indet.

- Pliocene: 1. Rębielice Królewskie 1A [MN 16]
JÁNOSSY (1974): 559

*Scolopacidae**Limosa limosa* (LINNAEUS, 1758)

- Pleistocene: 1. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 284, 285

Limosa sp.

- Holocene: 1. Raj Cave, l. 11A [Early Holocene]
BOCHEŃSKI (1974b): 74-75, 199, 207

Numenius arquata (LINNAEUS, 1758)

[I *Numenius* sp.]

[II Polish name "kulik wielki"]

- Holocene: 1. Kruszwica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965b): 153 [I]

The measurements cited exclude *N. phaeopus* and *N. tenuirostris*

- WALUSZEWSKA-BUBIEŃ (1984): 247
2. Inowrocław [Middle and Late Holocene]
WALUSZEWSKA-BUBIEŃ (1977c): 103, 105
SOBOCIŃSKI (1979): 11 [II]
3. Brześć Kujawski [Neolithic]
BOGUCKI (1981): 3, 5
4. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554
5. Koło [Late Middle Ages – Modern Ages]
KRUPSKA (in press b)

- Pleistocene: 1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 72-73, 207 (cf.)

Numenius phaeopus (LINNAEUS, 1758)

[I Polish name "kulik mniejszy"]

Lack of stratigraphic data [Pleistocene – Holocene]:

1. Zamkowa Dolna Cave, l. 2 (earth heap after old excavations)
BOCHEŃSKI (1974b): 71-72, 199, 207

Holocene: 1. Raj Cave, l. 11 [Early Holocene]
BOCHEŃSKI (1974b): 71-72, 199, 207, Pl.IV: Phot. 1

Pleistocene: 1. Mamutowa Cave, l. 2g, 2 [Vistulian]
BOCHEŃSKI (1974b): 71-72, 199, 207, Pl.IV: Phot. 2
BOCHEŃSKI (1977): 69[1]
BOCHEŃSKI (1981): 12

Numenius sp.

Holocene: 1. Kruszwica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965b): 153

Measurements cited indicate that the fragment belongs to *N. arquata* - see note for *N. arquata*

Tringa erythropus (PALLAS, 1764)

Pleistocene: 1. Raj Cave, l. 2, 6/10 [Vistulian]
BOCHEŃSKI (1974b): 65-67, 199, 206, Pl.IV: Phot. 5 (cf.)

Tringa totanus (LINNAEUS, 1758)

Pleistocene: 1. Koziarnia Cave, l. 11 [Vistulian]
BOCHEŃSKI (1974b): 63-65, 199, 206
BOCHEŃSKI (1988): Tbl. 7
2. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 63-65, 199, 206
3. Raj Cave, l. 6, 8 [Vistulian]
BOCHEŃSKI (1974b): 63-65, 199, 206

Tringa glareola LINNAEUS, 1758

Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 554 (cf.)

Tringa sp.

Pleistocene: 1. Raj Cave, l. 4 [Vistulian]
BOCHEŃSKI (1974b): 67, 199, 206
2. Sąpowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 51-52, 72 (cf.)

Actitis hypoleucos (LINNAEUS, 1758)

[I *Tringa hypoleucos*]

Holocene: 1. Nad Mosurem Starym Duża Cave, l. 4 [Neolithic]
NADACHOWSKI et al. (1989a): 505 [I]

Scolopax rusticola LINNAEUS, 1758Holocene: 1. Rockshelter above Niedostępną Cave, l. 5 [Neolithic]

BOCHEŃSKI (1974b): 70-71, 199, 206

BOCHEŃSKI (1988): Tbl. 7

2. Kałdus [2650-2450 BP]

WALUSZEWSKA-BUBIEŃ (1980): 162

WALUSZEWSKA-BUBIEŃ (1984): 247

This synthetic work includes only the Early Middle Ages, and so the Woodcock found at Kałdus exclusively in layers referred to the Przeworsk Culture found itself in it by mistake.

WALUSZEWSKA-BUBIEŃ (1981): 155

WALUSZEWSKA-BUBIEŃ (1984): 247

WALUSZEWSKA-BUBIEŃ (1985): 52

4. Opole [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1982): 174

WALUSZEWSKA-BUBIEŃ (1984): 247

WALUSZEWSKA-BUBIEŃ (1985): 52

5. Jaskinia Dużej Sowy [Late Holocene]

BOCHEŃSKI et al. (1983): 446

BOCHEŃSKI, TOMEK (1991): 554

6. Gniew [Early Middle Ages – Modern Ages]

NOGALSKI (1992b): 60, 61, 64, 67

NOGALSKI (1992c): 74, 75, 76-77

Pleistocene: 1. Rockshelter above Niedostępną Cave, l. 4/5 [Vistulian]

BOCHEŃSKI (1974b): 70-71, 199, 206, Pl. IV: Phot 4

BOCHEŃSKI (1988): Tbl. 7

2. Mamutowa Cave, l. 2 [Vistulian]

BOCHEŃSKI (1981): 10-12

Gallinago gallinago (LINNAEUS, 1758)Holocene: 1. Opole [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 247

This is a synthetic work – in original publications (WALUSZEWSKA-BUBIEŃ 1973, 1982) only *G. media*, is named and so surely a mistake.

2. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI, TOMEK (1991): 554

Pleistocene: 1. Obłazowa 2 [Vistulian]

NADACHOWSKI et al. (1993): 284, 285

Gallinago media (LATHAM, 1787)[I *Capella media*]

[II Polish name "dubelt"]

Holocene:

1. Opole [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1973): 199

WALUSZEWSKA-BUBIEŃ (1982): 174

WALUSZEWSKA-BUBIEŃ (1984): 247

WALUSZEWSKA-BUBIEŃ (1985): 52

Pleistocene:

1. Mamutowa Cave, l. 2 [Vistulian]

BOCHEŃSKI (1974b): 67-68, 199, 206, Pl. IV: Phot. 7 [I]

BOCHEŃSKI (1977): 69 [II]

2. Raj Cave, l. 9 [Vistulian]

BOCHEŃSKI (1974b): 67-68, 199, 206 [I]

3. Obłazowa 2 [Vistulian]

NADACHOWSKI et al. (1993):

Gallinago media (LATHAM, 1787) aut *Tringa ochropus* LINNAEUS, 1758[I *Capella media* vel *Tringa ochropus*]Pleistocene:

1. Mamutowa Cave, l. 2 [Vistulian]

BOCHEŃSKI (1974b): 69, 199, 206 [I]

2. Rockshelter in Puchacza Skała, loess formation III [Vistulian]

BOCHEŃSKI (1974b): 69, 199, 206 [I]

Gallinago sp.[I "Bekas – *Scolopax* sp." (Polish name "bekas" above all means Snipe, but also Great Snipe and Jack Snipe)]Holocene:

1. Dąbki [Mesolithic – Neolithic]

SOBOCIŃSKI (1984): 102 [I]

Pleistocene:

1. Obłazowa 2 [Vistulian]

NADACHOWSKI et al. (1993): 285 (cf., juv.)

Lymnocyptes minimus (BRÜNNICH, 1764)Holocene:

1. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI, TOMEK (1991): 555

Calidris ferruginea (PONTOPPIDAN, 1763)[I *Calidris testacea*]Pleistocene:

1. Raj Cave, l. 10 [Vistulian]

BOCHEŃSKI (1974b): 63-64, 199, 206, Pl. IV: Phot. 6 [I]

Philomachus pugnax (LINNAEUS, 1758)

- Holocene: 1. Brześć Kujawski [Neolithic]
BOGUCKI (1981): 3, 5

Limicolae indet.

- Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

*Laridae**Larus argemtatus* PONTOPPIDAN, 1763

- Holocene: 1. Kamień Pomorski [Early Middle Ages]
NOGALSKI (1979a): 72, 78
2. Szczecin [Early Middle Ages]
NOGALSKI (1980): 27
NOGALSKI (1984): 27-28, 54-55, 64-65, 90-91,
3. Wolin [Early Middle Ages]
NOGALSKI (1984): 27-28, 56-57, 64-65, 90-91, Tbl. VII,
Phot. 7-10
4. Kołobrzeg [Early Middle Ages]
NOGALSKI (1984): 27-28, 58-59, 64-65, 90-91,

Larus ridibundus LINNAEUS, 1766

- Holocene: 1. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1973): 199
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 48, 53
2. Szczecin [Early Middle Ages]
NOGALSKI (1980): 25
NOGALSKI (1984): 26, 54-55, 64-65, 90, Pl. VII: Phot. 5-6
3. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Larus sp.

[I Polish generic name "mewa"]

- Holocene: 1. Szczecin [Early Middle Ages]
KUBASIEWICZ (1955): 74, 79 [I]

Sterna hirundo LINNAEUS, 1758

- Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446

BOCHEŃSKI, TOMEK (1991): 555

Chlidonias nigra (LINNAEUS, 1758)

Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Columbidae

Columba oenas LINNAEUS, 1758

Holocene: 1. Stare Drawsko [Late Middle Ages – Modern Ages]
KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 50
2. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
3. Lubią [12th-16th cc.]
KRUPSKA (1991): 9, 14
4. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555
5. Mała Nieszawka [Late Middle Ages]
NOGALSKI et al. (1992): 81, 83, 84

Columba livia LINNAEUS, 1758

[I *Columba livia* f. *domestica*]

[II *Columba domestica*]

Holocene: 1. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965a): 135 [II]
WALUSZEWSKA-BUBIEŃ (1973): 199 [I]
WALUSZEWSKA-BUBIEŃ (1984): 247 [I]
2. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1971): 405 [I]
WALUSZEWSKA-BUBIEŃ (1984): 247 [I]
3. Legnica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247 [I]

This is a synthesis - in the original description of the material (WYROST et al. 1980) as *Columba* sp., and in the next publication (WALUSZEWSKA-BUBIEŃ 1985) as *C.l.f. domestica* or *C. oenas*.

4. Gniezno [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247 [I]

In the original description of the material (WALUSZEWSKA-BUBIEŃ 1969b) as *Columba* sp.

5. Kałdus [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247 [I]

In the original publication (WALUSZEWSKA-BUBIEŃ 1980) members of the genus *Columba* are not mentioned.

Columba oenas LINNAEUS, 1758 aut *Columba livia* LINNAEUS, 1758[I *Columba oenas*, aut *Columba livia* f. *domestica* (or vice versa)]Holocene:

1. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1981): 156[I]
WALUSZEWSKA-BUBIEŃ (1985): 53[I]
2. Legnica [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1985): 53 [I]

In original paper (WYROST et al. 1980) as *Columba* sp.

3. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1985): 53 [I]
4. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555, 556
5. Gniew [Late Middle Ages]
NOGALSKI (1992b): 60, 61, 64, 67-68 [I]
6. Chełm-Bielawin [Early Middle Ages]
NOGALSKI, KOSIŃSKA (in press a) [I]
7. Ciechanów [Late Middle Ages – Modern Ages]
NOGALSKI, KOSIŃSKA (in press b) [I]

Columba palumbus LINNAEUS, 1758Holocene:

1. Rockshelter above Niedostępna Cave, l. 6 [Neolithic]
BOCHEŃSKI (1974b): 75-76, 199, 207 (cf.)
BOCHEŃSKI (1988): Tbl. 7 (cf.)
2. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1981): 156
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 53
3. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
4. Cave in Dziadowa Skała, l. 10/11 [undefined period of the Holocene]
BOCHEŃSKI JR. (1990): 141
5. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555
6. Mała Nieszawka [Late Middle Ages]
NOGALSKI et al. (1992): 81, 83, 84,

Pleistocene:

1. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 286, 287

Columba sp.[I *Columba* spec. aut *Columba livia* f. *domestica*][II *Columba*]

[III Polish generic name "gołąb"]

Holocene:

1. Borsucza Cave [Late Holocene (?)]

OSSOWSKI (1880): 55 [III]

2. Gdańsk [Early Middle Ages]

KRYSIK (1955): 246 [III]

KRYSIK (1956a): 84 [II]

KRYSIK (1968): 10-11 [II], 17 [III]

3. Ujście [Early Middle Ages]

CHMIELEWSKI (1961b): 114, 131 [II]

4. Gniezno [Middle Ages]

WALUSZEWSKA-BUBIEŃ (1969b): 158, 177-179

SOBOCIŃSKI, SCHRAMM (1972): 173 [III]

5. Kopana Cave (humus)

BOCHEŃSKI (1974b): 77, 200, 207

6. Legnica [Early Middle Ages]

WYROST et al. (1980): 591 [I], 600

In the text as *Columba* spec.

7. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI et al. (1983): 446 [II]

8. Poznań [15th-18th cc.]

KRUPSKA (1987a): 14, 15

SOBOCIŃSKI (1987c): 144

Streptopelia turtur (LINNAEUS, 1758)Holocene:

1. Kałdus [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1980): 160, 161

2. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI et al. (1983): 446

BOCHEŃSKI, TOMEK (1991): 555

3. Nad Mosurem Starym Duża Cave, l. 4 [Neolithic]

NADACHOWSKI et al. (1989a): 505

*Tytonidae**Tyto alba* (SCOPOLI, 1769)

[I Polish name "płomykówka"]

- Holocene:**
1. Szczecin [Early Middle Ages]
NOGALSKI (1984): 28-29, 54-55, 64-65, 91, Pl. VIII: Phot. 2
 2. Gdańsk [Early Middle Ages]
NOGALSKI (1984): 28-28, 60-61, 64-65,
 3. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555
 4. Tądów Górny [Przeworsk Culture]
SOBOCIŃSKI, MAKOWIECKI (1992): 204, 206 [1]
 5. Koło [Late Middle Ages – Modern Ages]
KRUPSKA (in press b)
 6. Ciechanów [Late Middle Ages – Modern Ages]
NOGALSKI, KOSIŃSKA (in press b)

*Strigidae**Bubo bubo* (LINNAEUS, 1758)

- Holocene:**
1. Szczecin [Early Middle Ages]
NOGALSKI (1980): 27-28
 2. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
 3. Kołobrzeg [Early Middle Ages]
NOGALSKI (1984): 28, 58-59, 64-65, 91, Pl. VIII: Phot. 1

- Pleistocene:**
1. Raj Cave, l. 10 [Vistulian]
BOCHEŃSKI (1974b): 77, 200, 207(cf.)
 2. Cave in Dziadowa Skała, l. 7, IV [Vistulian]
BOCHEŃSKI JR. (1990): 141 (?)

? *Bubo* sp.

- Pliocene:**
1. Rębielice Królewskie 1A [MN 16]
JÁNOSSY (1974): 532, 554-555
BOCHEŃSKI (1977): 68
BOCHEŃSKI (1989): 93

Nyctea scandiaca (LINNAEUS, 1758)

- Pleistocene:**
1. Raj Cave, l. 6, 10 [Vistulian]
BOCHEŃSKI (1974b): 78-79, 200, 207, Pl. V: Phot. 4, 5

Surnia ulula (LINNAEUS, 1758)Lack of stratigraphic data [Pleistocene – Holocene]:

1. Zamkowa Dolna Cave, l. 2 (earth heap after old excavation)
BOCHEŃSKI (1974b): 78-79, 81, 185, 200, 207, Pl. V: Phot. 2
BOCHEŃSKI (1977): 69 (Fig. 3b)

- Holocene:
1. Nad Mosurem Starym Duża Cave, l. 3 [Bronze Age]
NADACHOWSKI et al. (1989a): 505

- Pleistocene:
1. Raj Cave, l. 4 [Vistulian]
BOCHEŃSKI (1974b): 78-81, 200, 207

Glaucidium passerinum (LINNAEUS, 1758)

- Pleistocene:
1. Rockshelter in Żytnia Skała, upper level of solifluction [Vistulian]
BOCHEŃSKI (1974b): 81-82, 200 207, Pl. V: Phot. 1
BOCHEŃSKI (1977): 69 (Fig. 3c)

Glaucidium sp.Pliocene/Pleistocene:

1. Kadzielnia 1 [MN 17 – Early Biharian]
JÁNOSSY (1974): 532, 552-553
BOCHEŃSKI (1977): 68
BOCHEŃSKI (1989): 93

- Pliocene:
1. Rębielice Królewskie 1A [MN 16]
JÁNOSSY (1974): 532, 552-553
BOCHEŃSKI (1977): 68
BOCHEŃSKI (1989): 93

Athene noctua (SCOPOLI, 1769)

- Holocene:
1. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965a): 135
WALUSZEWSKA-BUBIEŃ (1973): 201
WALUSZEWSKA-BUBIEŃ (1982): 175
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 53
 2. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1971): 405
WALUSZEWSKA-BUBIEŃ (1981): 156
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 53

3. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446
BOCHEŃSKI, TOMEK (1991): 555
4. Jankowo Wielkopolskie [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
5. Dąbki [Mesolithic – Neolithic]
SOBOCIŃSKI (1984): 102
SOBOCIŃSKI (1986): 112
6. Lubin [Early Middle Ages]
KRUPSKA (1991): 9, 14

Athene noctua (SCOPOLI, 1769) aut *Aegolius funereus* LINNAEUS, 1758

- Holocene:
1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555, 556

Athene veta JÁNOSSY, 1974

(see: *Aegolius funereus* p. 430-431)

Strix aluco LINNAEUS, 1758

[I *Syrnium Aluco*]

[II Polish name "puszczyk"]

Lack of stratigraphic data [Pleistocene – Holocene]:

1. Koziarnia Cave
ROEMER (1883): 27 [I]

- Holocene:
1. Józefów [Atlantic]
BOCHEŃSKI et al. (1968): 64
BOCHEŃSKI (1974b): 83-84, 200, 207
 2. Mamutowa Cave, humus [Early Holocene ?]
BOCHEŃSKI (1974b): 83-84, 200, 207
 3. Raj Cave, l. 10/11 [most probably Early Holocene]
BOCHEŃSKI (1974b): 83-84, 200, 207
 4. Rockshelter above Niedostępna Cave, l. 5, 5K, 5/6 [Neolithic]
BOCHEŃSKI (1974b): 83-84, 200, 207, Pl. V: Phot. 6
BOCHEŃSKI (1988): Tbl. 7
 5. Pod Sokolą Cave, on sediment surface [Late Holocene ?]
BOCHEŃSKI (1974b): 83-84, 200, 207,
 6. Inowrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977c): 110
 7. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446

- BOCHEŃSKI, TOMEK (1991): 555
8. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1984): 247
 9. Dąbrówka [Late Middle Ages]
BENECKE (1986): 14
 10. Giecz [Early Middle Ages]
KRUPSKA (1986): 52
 11. Sąspowska Zachodnia Cave, l. 5b [Neolithic]
BOCHEŃSKI (1988): 53, 72, Tbl. 7
 12. Nad Mosurem Starym Duża Cave, l. 4, 2 [Neolithic, Late Holocene]
NADACHOWSKI et al. (1989a): 505
 13. Cave in Dziadowa Skała, l. 9, 11 [undefined periods of the Holocene]
BOCHEŃSKI JR. (1990): 142

Pleistocene:

1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 83-84, 200, 207
BOCHEŃSKI (1977): 69
2. Cave in Dziadowa Skała, l. 8 [Vistulian]
BOCHEŃSKI JR. (1990): 142

Strix uralensis* PALLAS, 1771*Holocene:**

1. Nad Mosurem Starym Duża Cave, l. 3 [Late Holocene]
NADACHOWSKI et al. (1989): 505
2. Człuchów [Middle Ages – Modern Ages]
NOGALSKI, SAŁACIAK (1990): 52, 60.

Pleistocene:

1. Raj Cave, l. 10 [Vistulian]
BOCHEŃSKI (1974b): 84-86, 200, 207(cf.)
2. Sąspowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 53, 72, Tbl. 7

***Strix* sp. (array of *S. nebulosa*)**

[I *Strix* sp. (z grupy *nebulosa*)(= from group *nebulosa*)]

Pliocene:

1. Rębielice Królewskie 1A [MN 16]
JÁNOSSY (1974): 532, 553-554
BOCHEŃSKI (1977): 68 [I]
BOCHEŃSKI (1989): 93[I]

Strix* sp.*Holocene:**

1. Nad Mosurem Starym Duża Cave, l. 3 [Late Holocene]
NADACHOWSKI et al. (1989): 505

Asio flammeus (PONTOPPIDAN, 1763)

[I Polish name "sowa błotna"]

- Holocene:**
1. Rockshelter above Niedostępna Cave, l. 5 [Neolithic]
BOCHEŃSKI (1974b): 88, 200, 207
BOCHEŃSKI (1988): Tbl. 7
 2. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446 (cf.)
BOCHEŃSKI, TOMEK (1991): 555
 3. Nad Mosurem Starym Duża Cave, l. 4 [Neolithic]
NADACHOWSKI et al. (1989a): 505

- Pleistocene:**
1. Koziarnia Cave, l. 11 [Vistulian]
BOCHEŃSKI (1974b): 88, 200, 207, Pl. V: Phot. 3
BOCHEŃSKI (1977): 69 (Fig. 3a)
BOCHEŃSKI (1988): Tbl. 7
 2. Mamutowa Cave, l. 2g, 2 [Vistulian]
BOCHEŃSKI (1974b): 88, 200, 207
BOCHEŃSKI (1977): 69 [I]
BOCHEŃSKI (1981): 12
 3. Sąspowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 52, 72, Tbl. 7
 4. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 284, 286

- Pliocene:**
1. Rębiełice Królewskie 1A [MN 16]
JÁNOSSY (1974): 532, 551-552 (aff.)
BOCHEŃSKI (1977): 68 (aff.)
BOCHEŃSKI (1989): 93 (aff.)

Asio otus (LINNAEUS, 1758)

- Holocene:**
1. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1982): 174
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 53
 2. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446
BOCHEŃSKI, TOMEK (1991): 555
 3. Nad Mosurem Starym Duża Cave, l. 4 [Neolithic]
NADACHOWSKI et al. (1989a): 505

- Pleistocene:**
1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 86-88, 200, 207
 2. Rockshelter at Zalas [Late Vistulian]
BOCHEŃSKI et al. (1985): 23 (cf.)
 3. Sąspowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 52, 72, Tbl. 7

Asio sp.

[I *Asio flammeus* / *otus*]

- Holocene:**
1. Rockshelter above Niedostępna Cave, l. 5K [Neolithic]
BOCHEŃSKI (1974b): 89, 200, 207
 2. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555, 556 [I]

Aegolius funereus (LINNAEUS, 1758)

[I Polish name "włóchatka"]

[II *Athene noctua veta*]

[III *Athene veta*]

- Holocene:**
1. Nad Mosurem Starym Duża Cave, l. 4 [Neolithic]
NADACHOWSKI et al. (1989a): 505
 2. Poszukiwaczy Skarbów Cave, on surface [Late Holocene]
TOMEK (1989): 607
 3. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

- Pleistocene:**
1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 82-83
BOCHEŃSKI (1977): 69 [I]
 2. Sąspowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 52-53, 72, Tbl. 7

- Pliocene:**
1. Rębiełice Królewskie 1A [MN 16]
JÁNOSSY (1974): 532, 555-556, Pl. XXIV: Phot. 1 [II]
BOCHEŃSKI (1977): 68 [II]
JÁNOSSY (1979): 19 [III]
BOCHEŃSKI (1989): 93 [III]
BOCHEŃSKI (1992): 83 [II], 90 [III]
MLÍKOVSKÝ (1992): 443 [II]
JÁNOSSY (1992): 17 [III]

On the basis of the coracoid from Rębiełice JÁNOSSY (1974) described a new subspecies, *Athene noctua veta*, which next was raised to the rank of species (JÁNOSSY 1979). After a brief examination of the holotype,

MLÍKOVSKÝ (1992) thinks that it belongs to the genus *Aegolius* and does not differ from the contemporary species *A. funereus*; hence he synonymizes it with this last species. Apart from the foregoing, having admitted the presence of one of the characters of *Aegolius* in the holotype, JÁNOSSY (1992) leaves the newly described material from Beremend together with the holotype in the genus *Athene*, explaining this with the mosaic nature of its morphological features. It is very probable that we are concerned with a fossil species of the genus *Aegolius*, which however cannot be unambiguously separated at the present stage of study.

Strigiformes juv. indet.

Holocene: 1. Nad Mosurem Starym Duża Cave, l. 3 [Late Holocene]
NADACHOWSKI et al. (1989a): 505

Apodidae

Apus apus (LINNAEUS, 1758)

Holocene: 1. Rockshelter above Niedostępną Cave, l. 5K [Neolithic]
BOCHEŃSKI (1974b): 89, 200, 207, Pl. VI: Phot. 2
BOCHEŃSKI (1988): Tbl. 7
2. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446
BOCHEŃSKI, TOMEK (1991): 555
3. Nad Mosurem Starym Duża Cave, l. 3 [Late Holocene]
NADACHOWSKI et al. (1989a): 505

Apus melba (LINNAEUS, 1758)

Pleistocene: 1. Zamkowa Dolna Cave, l. 6 [Vistulian]
BOCHEŃSKI (1974b): 89-91, 200, 207, Pl. VI: Phot. 1

Alcedinidae

Alcedo atthis (LINNAEUS, 1758)

[*l. alcedo ispida*]

Holocene: 1. Gdańsk [Early Middle Ages]
JAWORSKI (1952): 91 [I]

Coraciidae

Coracias garrulus LINNAEUS, 1758

Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

*Upupidae**Upupa epops* LINNAEUS, 1758

Holocene: 1. Nad Mosurem Starym Duża Cave, l. 3 [Late Holocene]
NADACHOWSKI et al. (1989a): 505

Pleistocene: 1. Nad Mosurem Starym Duża Cave, l. 5 [Vistulian]
NADACHOWSKI et al. (1989a): 505

*Picidae**Picoides major* (LINNAEUS, 1758)

[*Dendrocopos major*]

Holocene: 1. Nad Mosurem Starym Duża Cave, l. 4, 2 [Neolithic, Late Holocene]
NADACHOWSKI et al. (1989a): 505 [1]
2. Cave in Dziadowa Skała, l. 10 [undefined period of the Holocene]
BOCHEŃSKI JR. (1990): 142 [1]

Picoides major (LINNAEUS, 1758) aut *Picoides leucotos* (BECHSTEIN, 1803)

[*Dendrocopos major* aut *D. leucotos*]

Holocene: 1. Cave in Dziadowa Skała, l. 10 or 11, [undefined periods of the Holocene]
BOCHEŃSKI JR. (1990): 142 [1]

Picoides medius (LINNAEUS, 1758)

[*Dendrocopos medius*]

Holocene: 1. Rockshelter above Niedostępna Cave, l. 5. [Neolithic]
BOCHEŃSKI (1974b): 92-93, 200, 207 [1]
BOCHEŃSKI (1988): Tbl. 7 [1]

Dryocopus martius (LINNAEUS, 1758)

Holocene: 1. Tunel Wielki Rockshelter [Modern Ages]
BOCHEŃSKI (1974b): 92, 200, 207
BOCHEŃSKI (1988): Tbl. 7
2. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446
BOCHEŃSKI, TOMEK (1991): 555

Pleistocene: 1. Sąspowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 53-54, 72, Tbl. 7

Picus viridis LINNAEUS, 1758

- Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446
BOCHEŃSKI, TOMEK (1991): 555

*Alaudidae**Melanocorypha clandra* (LINNAEUS, 1766)

- Pleistocene: 1. Raj Cave, l. 10 [Vistulian]
BOCHEŃSKI (1974b): 93-95, 200, 207 (cf.)
2. Mamutowa Cave, l. IX [Vistulian]
BOCHEŃSKI (1981): 12-13

Galerida cristata (LINNAEUS, 1758)

- Pleistocene: 1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 98-99, 200, 207

Lullula arborea (LINNAEUS, 1758)

- Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555
- Pleistocene: 1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 99-100, 200, 207
2. Raj Cave, l. 10 [Vistulian]
BOCHEŃSKI (1974b): 99-100, 200, 207

Alauda arvensis LINNAEUS, 1758

- Holocene: 1. Rockshelter in Biały Stream Valley [Late Holocene ?]
TOMEK (1989): 608
2. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555
- Pleistocene: 1. Mamutowa Cave, l. III [Vistulian]
BOCHEŃSKI (1974b): 101-102, 200, 207
2. Rockshelter above Niedostępna Cave, l. 4 [Vistulian]
BOCHEŃSKI (1974b): 101-102, 200, 207
BOCHEŃSKI (1988): Tbl. 7
3. Raj Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 100-102, 200, 207
4. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 286, 287

Eremophila alpestris (LINNAEUS, 1758)

Holocene: 1. Nad Mosurem Starym Duża Cave, l. 4 [Neolithic], 3 [Bronze Age]
NADACHOWSKI et al. (1989a): 505 (cf.)

Pleistocene: 1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 94-98, 200, 207, Pl. VI: Phot. 3
2. Raj Cave, l. 6 [Vistulian]
BOCHEŃSKI (1974b): 95-98, 200, 207
3. Rockshelter at Zalas, l. 9 [Vistulian]
BOCHEŃSKI et al. (1985): 23-24

Alaudidae indet.

Pleistocene: 1. Koziarnia Cave, l. 11 [Vistulian]
BOCHEŃSKI (1974b): 102
BOCHEŃSKI (1988): Tbl. 7

*Hirundinidae**Hirundo rustica* LINNAEUS, 1758

Holocene: 1. Sąspowska Zachodnia Cave, l. 4/6 [undefined period of the Holocene]
BOCHEŃSKI (1988): 54, 72, Tbl. 7
2. Jaskinia Dużej Sowy [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Pleistocene: 1. Rockshelter above Niedostępna Cave, l. 4 [Vistulian]
BOCHEŃSKI (1974b): 102-104, 200, 207
BOCHEŃSKI (1988): Tbl. 7
2. Raj Cave, l. 2, 3, 4, 6, 8, boundary of 8 and 10 [Vistulian]
BOCHEŃSKI (1974b): 102-104, 200, 207, Pbl. VI: Phot. 5, 6.
3. Sąspowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 54, 72, Tbl. 7
4. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 286

Hirundo sp.Lack of stratigraphic data [Pleistocene – Holocene]:

1. One of the caves near Ojców

"Eine Knochenhöhle bei Ojców in Russ. Polen" - specimen collected by ROEMER, so it is possible that it is the bone from the Nietoperzowa C. as mentioned below

NEHRING (1880): 484

2. Nietoperzowa Cave

ROEMER (1883): 28

*Motacillidae**Motacilla alba* LINNAEUS, 1758

Holocene: 1. Nad Mosurem Starym Duża Cave, l. 3 [Bronze Age]
NADACHOWSKI et al. (1989): 506

Pleistocene: 1. Nad Mosurem Starym Duża Cave, l. 5 [Vistulian]
NADACHOWSKI et al. (1989): 506

Motacilla sp.

Holocene: 1. Rockshelter above Niedostępna Cave, l. 5K [Neolithic]
BOCHEŃSKI (1974b): 131-132, 200, 208
BOCHEŃSKI (1988): Tbl. 7

Anthus cf. cervinus (PALLAS, 1811)

Pliocene: 1. Rębielice Królewskie 1A [MN 16]
JÁNOSSY (1974): 532, 558-559
BOCHEŃSKI (1989): 93

Anthus trivialis (LINNAEUS, 1758)

Holocene: 1. Rockshelter above Niedostępna Cave, l. 5K, 5 [Neolithic]
BOCHEŃSKI (1974b): 130, 200, 208 (cf.)
BOCHEŃSKI (1988): Tbl. 7 (cf.)
2. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Pleistocene: 1. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 286, 287

Anthus sp.

Holocene: 1. Raj Cave, l. 11B [Late Holocene?]
BOCHEŃSKI (1974b): 130-131, 200, 208
2. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555 (cf. *pratensis*?)

*Laniidae**Lanius cf. collurio* LINNAEUS, 1758

Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Lanius excubitor LINNAEUS, 1758

- Pleistocene: 1. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 286, 287 (juv.)

*Cinclidae**Cinclus cinclus* (LINNAEUS, 1758)

- Holocene: 1. Nad Mosurem Starym Duża Cave, l. 4, 3, 2 [Neolithic – Late Holocene]
NADACHOWSKI et al. (1989a): 506

*Muscicapidae**Erithacus rubecula* (LINNAEUS, 1758)

- Holocene: 1. Bramka Rockshelter, l. 6 [Early Holocene]
BOCHEŃSKI (1988): 56 (cf.)
2. Nad Mosurem Starym Duża Cave, l. 2 [Late Holocene]
NADACHOWSKI et al. (1989a): 506
3. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Erithacus sp.

- [I *Luscinia* (array of *L. svecica*)]
[II *Luscinia* sp. (z grupy *svecica*) (= from group *svecica*)]

- Pliocene: 1. Rębielice Królewskie 1A [MN 16]
JÁNOSSY (1974): 532, 558 [I]
BOCHEŃSKI (1989): 93 [II]

cf. *Phoenicurus ochruros* (GMELIN, 1774)

- Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

- Pleistocene: 1. Rockshelter in Żytunia Skąła, loess with rubble [Vistulian]
BOCHEŃSKI (1974b): 117-120, 200, 207

cf. *Oenanthe oenanthe* (LINNAEUS, 1758)

- Holocene: 1. Nad Mosurem Starym Duża Cave, l. 4 [Neolithic]
NADACHOWSKI et al. (1989a): 506

Monticola cf. *saxatilis* (LINNAEUS, 1766)

- Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Turdus merula LINNAEUS, 1758Holocene:

1. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965a): 135
WALUSZEWSKA-BUBIEŃ (1973): 202
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 53
2. Raj Cave, l. 11B [Late Holocene]
BOCHEŃSKI (1974b): 124-125, 200, 207
3. Bramka Rockshelter, l. 6 [Early Holocene]
BOCHEŃSKI (1988): 57, 72, Tbl. 7
4. Nad Mosurem Starym Duża Cave, l. 3, 2 [Late Holocene]
NADACHOWSKI et al. (1989a): 506
5. Cave in Dziadowa Skała, l. 10 [undefined period of the Holocene]
BOCHEŃSKI JR. (1990): 143
6. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Pleistocene:

1. Sąspowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 57, 70, 72, Tbl. 7
2. Cave in Dziadowa Skała, l. 7, 8 [Vistulian]
BOCHEŃSKI JR. (1990): 143

Turdus philomelos C.L. BREHM, 1831Holocene:

1. Rockshelter above Niedostępna Cave, l. 5 [Neolithic]
BOCHEŃSKI (1974b): 125-127, 200, 207
BOCHEŃSKI (1988): Tbl. 7
2. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 447
BOCHEŃSKI, TOMEK (1991): 555
3. Nad Mosurem Starym Duża Cave, l. 3, 2 [Late Holocene]
NADACHOWSKI et al. (1989a): 506
4. Cave in Dziadowa Skała, l. 10 [undefined period of the Holocene]
BOCHEŃSKI JR. (1990): 143

Pleistocene:

1. Raj Cave, l. 4 [Vistulian]
BOCHEŃSKI (1974b): 125-127, 200, 207
2. Sąspowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 57- 58, 72, Tbl. 7
3. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 286 (cf., juv.)

Turdus iliacus LINNAEUS, 1766

- Pleistocene: 1. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 286, 287 (ad.+ juv.)

Turdus torquatus LINNAEUS, 1758

[I *Merula torquata*]

Lack of stratigraphic data [Pleistocene – Holocene]:

1. Koziarnia Cave
ROEMER (1883): 27-28 [I]

- Holocene: 1. Nad Mosurem Starym Duża Cave, l. 3, 2 [Late Holocene]
NADACHOWSKI et al. (1989a): 506

- Pleistocene: 1. Rockshelter above Niedostępna Cave, l. 4 [Vistulian]
BOCHEŃSKI (1974b): 120-122, 200, 207, Pl. VII: Phot. 1
BOCHEŃSKI (1988): Tbl. 7
2. Sąspowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 56-57, 70 (cf.), Tbl. 7

Turdus pilaris LINNAEUS, 1758

- Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Turdus torquatus LINNAEUS, 1758 aut *Turdus pilaris* LINNAEUS, 1758

- Holocene: 1. Mamutowa Cave, humus [Early Holocene]
BOCHEŃSKI (1974b): 122-124, 200, 207
2. Cave in Dziadowa Skała, l. 10, 11 [undefined periods of the Holocene]
BOCHEŃSKI JR. (1990): 143

Turdus viscivorus LINNAEUS, 1758

- Holocene: 1. Nad Mosurem Starym Duża Cave, l. 4, 3, 2 [Neolithic – Late Holocene]
NADACHOWSKI et al. (1989a): 506
2. Cave in Dziadowa Skała, l. 10 or 11 [undefined periods of the Holocene]
BOCHEŃSKI JR. (1990): 143
3. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555
- Pleistocene: 1. Zamkowa Dolna Cave, l. 6 [Vistulian]
BOCHEŃSKI (1974b): 128, 200, 207
2. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1981): 17-18

Turdus sp.[I *Turdus* sp. I][II *Turdus* sp. II]

- Holocene:
1. Nad Mosurem Starym Duża Cave, l. 3, 2 [Late Holocene]
NADACHOWSKI et al. (1989a): 506
 2. Cave in Dziadowa Skała, l. 10, 10/11 [undefined periods of the Holocene]
BOCHEŃSKI JR. (1990): 144
 3. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555
 4. Koło [Late Middle Ages – Modern Ages]
KRUPSKA (in press b)
- Pleistocene:
1. Rockshelter in Żytunia Skała, II level of loess, streaked loess [Vistulian]
BOCHEŃSKI (1974b): 128 (cf.)
 2. Kozi Grzbiet [Middle Pleistocene: Mindel]
BOCHEŃSKI (1984): 183-184, Pl. XI: Phot. d
BOCHEŃSKI (1989): 93 [II]
 3. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 286
- Pliocene:
1. Rębielice Królewskie 1A [MN 16]
JÁNOSSY (1974): 532, 557-558
BOCHEŃSKI (1989): 93 [I]

Turdus ?

- Pliocene:
1. Rębielice Królewskie 1A [MN 16]
JÁNOSSY (1974): 559

Acrocephalus arundinaceus (LINNAEUS, 1758)

- Holocene:
1. Nad Mosurem Starym Duża Cave, l. 4 [Neolithic]
NADACHOWSKI et al. (1989a): 506

Acrocephalus palustris (BECHSTEIN, 1798)

- Holocene:
1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Sylvia communis LATHAM, 1787

- Holocene:
1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Phylloscopus sp.

- Holocene: 1. Nad Mosurem Starym Duża Cave, l. 2 [Late Holocene]
NADACHOWSKI et al. (1989a): 506

Regulus cf. *regulus* (LINNAEUS, 1758)

- Pleistocene: 1. Nietoperzowa Cave, l. 13 [Eemian]
BOCHEŃSKI (1974b): 129-130, 200, 208, Pl. VII: Phot. 3

Muscicapinae gen. et sp. indet.

- Holocene: 1. Nad Mosurem Starym Duża Cave, l. 2 [Late Holocene]
NADACHOWSKI et al. (1989a): 506

*Aegithalidae*cf. *Aegithalos caudatus* (LINNAEUS, 1758)

- Pleistocene: 1. Nietoperzowa Cave, l. 13 [Eemian]
BOCHEŃSKI (1974b): 117, 200, 207

*Paridae**Parus major* LINNAEUS, 1758

- Holocene: 1. Nad Mosurem Starym Duża Cave, l. 3, 2 [Late Holocene]
NADACHOWSKI et al. (1989a): 506

Parus cf. *palustris* LINNAEUS, 1758

- Holocene: 1. Nad Mosurem Starym Duża Cave, l. 3 [Bronze Age]
NADACHOWSKI et al. (1989a): 506

*Sittidae*cf. *Sitta europaea* LINNAEUS, 1758

- Holocene: 1. Nad Mosurem Starym Duża Cave, l. 2 [Late Holocene]
NADACHOWSKI et al. (1989a): 506

Sitta cf. *carolinensis* LATHAM, 1790

- Pleistocene: 1. Rockshelter above Niedostępna Cave, l. 4 [Vistulian]
BOCHEŃSKI (1974a): 52
BOCHEŃSKI (1974b): 109-115, 200, 207, Pl. VII: Phot. 2
BOCHEŃSKI (1988): Tbl. 7

Sitta sp. (small species)

[*I Sitta* sp. (mały gatunek)]

- Pliocene: 1. Rębielice Królewskie 1A [MN 16]
JANOSSY 532, 556-557
BOCHEŃSKI (1989): 93 [I]

cf. *Tichodroma muraria* (LINNAEUS, 1766)

- Pleistocene: 1. Mamutowa Cave, l. 2. [Vistulian]
BOCHEŃSKI (1974b): 115-117, 200, 207
2. Rockshelter in Puchacza Skała, loess formation III [Vistulian]
BOCHEŃSKI (1974b): 115-117, 200, 207, Pl. VI: Phot. 4.

Emberizidae

Emberiza citrinella LINNAEUS, 1758

- Holocene: 1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Emberiza cf. *schoeniclus* (LINNAEUS, 1758)

- Pleistocene: 1. Raj Cave, l. 2 [Vistulian]
BOCHEŃSKI (1974b): 136-137, 201, 208

Emberiza sp.

Lack of stratigraphic data [Pleistocene – Holocene]:

1. Nietoperzowa Cave
ROEMER (1883): 28

Fringillidae

Fringilla coelebs LINNAEUS, 1758

- Holocene: 1. Tunel Wielki Rockshelter, l. 14 [Neolithic]
BOCHEŃSKI (1988): 58, 71, Tbl. 7
2. Nad Mosurem Starym Duża Cave, l. 3 [Bronze Age]
NADACHOWSKI et al. (1989a): 506
- Pleistocene: 1. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 286, 287

Fringilla sp.Lack of stratigraphic data [Pleistocene – Holocene]:

1. One of the caves near Ojców

"Eine Knochenhöhle bei Ojców in Russ. Polen" - specimen collected by ROEMER, so it is possible that it is *Acanthis cannabina* described from the Nietoperzowa Cave by ROEMER (1883) under the synonym "*Fringilla linota*"

NEHRING (1880): 484

cf. *Fringilla* sp.

- Holocene: 1. Rockshelter in Żytnia Skała, clayey-rubble formation [Early Holocene]
BOCHEŃSKI (1974b): 133-134, 200, 208

Carduelis chloris (LINNAEUS, 1758)

[I cf. *Chloris chloris*]

[II *Carduelis* cf. *chloris*]

- Holocene: 1. Nad Mosurem Starym Duża Cave, l. 4 [Neolithic]
NADACHOWSKI et al. (1989a): 506 [II]

- Pleistocene: 1. Raj Cave, l. 4 [Vistulian]
BOCHEŃSKI (1974b): 134, 201, 208 [I]
2. Obłazowa 2 [Vistulian]
NADACHOWSKI et al. (1993): 286

Carduelis spinus (LINNAEUS, 1758)

- Holocene: 1. Nad Mosurem Starym Duża Cave, l. 3 [Bronze Age]
NADACHOWSKI et al. (1989a): 506

Carduelis cf. *carduelis* (LINNAEUS, 1758)

[I *Frinziella* conf. *carduelis*]

Lack of stratigraphic data [Pleistocene – Holocene]:

1. Nietoperzowa Cave
ROEMER (1883): 28 [I]

Carduelis sp.

- Holocene: 1. Nad Mosurem Starym Duża Cave, l. 3 [Bronze Age]
NADACHOWSKI et al. (1989a): 506

Acanthis cannabina (LINNAEUS, 1759)[I *Fringilla linota*]Lack of stratigraphic data [Pleistocene – Holocene]:

1. Nietoperzowa Cave

ROEMER (1883): 28 [I]

Holocene:

1. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI, TOMEK (1991): 555

Loxia curvirostra LINNAEUS, 1758Holocene:

1. Nad Mosurem Starym Duża Cave, l. 2 [Late Holocene]

NADACHOWSKI et al. (1989a): 506

Pyrrhula pyrrhula (LINNAEUS, 1758)Holocene:

1. Sąpowska Zachodnia Cave, l. 3 [Vistulian]

BOCHEŃSKI (1988): 58-59, Tbl.6, 7

2. Nad Mosurem Starym Duża Cave, l. 4 [Neolithic]

NADACHOWSKI et al. (1989a): 506

Coccothraustes coccothraustes (LINNAEUS, 1758)

[I Polish name "grubodziób"]

Holocene:

1. Józefów [Atlantic]

BOCHEŃSKI et al. (1968): 64

BOCHEŃSKI (1974b): 134-137, 201, 208, Pl. VII: Phot. 5

2. Niedźwiedź [Neolithic]

BOCHEŃSKI (1974b): 134-137, 201, 208, Pl. VII: Phot. 4

3. Lower Cave in Sobczański Gorge [Atlantic/Subboreal]

ALEXANDROWICZ et al. (1985): 67

Pleistocene:

1. Mamutowa Cave, l. 2 [Vistulian]

BOCHEŃSKI (1974b): 134-137, 201, 208

BOCHEŃSKI (1977): 69 [I]

2. Cave in Dziadowa Skala, l. 7 [Vistulian]

BOCHEŃSKI JR. (1990): 144

cf. *Fringillidae* indet.Holocene:

1. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI, TOMEK (1991): 555

*Sturnidae**Sturnus vulgaris* LINNAEUS, 1758

- Holocene:
1. Wrocław [Early Middle Ages]
MYCZKOWSKI (1960): 166
 2. Nad Mosurem Starym Duża Cave, l. 2 [Late Holocene]
NADACHOWSKI et al. (1989): 506
 3. Cave in Dziadowa Skala, l. 10 [undefined period of the Holocene]
BOCHEŃSKI JR. (1990): 143
- Pleistocene:
1. Raj Cave, l. 6 [Vistulian]
BOCHEŃSKI (1974b): 132, 200, 207

Sturnus sp.Lack of stratigraphic data [Pleistocene – Holocene]:

1. One of the caves near Ojców
"Eine Knochenhöhle bei Ojców in Russ. Polen"
NEHRING (1880): 484

*Corvidae**Garrulus glandarius* (LINNAEUS, 1758)Lack of stratigraphic data [Pleistocene – Holocene]:

1. Nietoperzowa Cave
ROEMER (1883): 28

- Holocene:
1. Rochshelter above Niedostępną Cave, l. 5K [Neolithic]
BOCHEŃSKI (1974b): 109, 170, 200, 207
BOCHEŃSKI (1988): Tbl. 7
 2. Cedynia [Early Middle Ages]
NOGALSKI (1981): 100
 3. Szczecin [Early Middle Ages]
NOGALSKI (1984): 29-30, 54-55, 64-65, 92, Pl. VIII: Phot. 3, 4, 6
 4. Wolin [Early Middle Ages]
NOGALSKI (1984): 29-30, 56-57, 64-65, 92, Pl. VIII: Phot. 5
 5. Dąbrówka [Late Middle Ages]
BENECKE (1986): 14
 6. Nad Mosurem Starym Duża Cave, l. 3, 2 [Late Holocene]
NADACHOWSKI et al. (1989a): 506
 7. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

8. Ciechanów [Late Middle Ages - Modern Ages]
NOGALSKI, KOSIŃSKA (in press b)

Pleistocene:

1. Koziarnia Cave, l. 13 [Vistulian]
BOCHEŃSKI (1974b): 108-109, 200, 207
BOCHEŃSKI (1988): Tbl. 7
2. Sąspowska Zachodnia Cave, l. 3 [Vistulian]
BOCHEŃSKI (1988): 54-55, 72, Tbl. 7 (cf.)

Pica pica (LINNAEUS, 1758)Holocene:

1. Człuchów [Middle Ages - Modern Ages]
NOGALSKI, SAŁACIAK (1990): 52, 61
2. Gniew [Late Middle Ages]
NOGALSKI (1992b): 60, 61, 64, 68
2. Mała Nieszawka [Late Middle Ages]
NOGALSKI et al. (1992): 81, 83, 85

Pleistocene:

1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1981): 13-17, Tbl. I, Fot 5, 6.

Nucifraga caryocatactes (LINNAEUS, 1758)Holocene:

1. Bramka Rockshelter, l. 6 [Early Holocene]
BOCHEŃSKI (1988): 55, 69, Tbl. 7

Pyrrhonorax graculus (LINNAEUS, 1766)Pleistocene:

1. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1981): 16, Pl. I: Phot. 7

Pyrrhonorax pyrrhonorax (LINNAEUS, 1758)Holocene:

1. Rockshelter in Biały Stream Valley [Late Holocene ?]
TOMEK (1989): 609

Corvus corax LINNAEUS, 1758

[1 Polish name "kruk"]

Holocene:

1. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965a): 135
WALUSZEWSKA-BUBIEŃ (1973): 202
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 53
2. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1971): 408
WALUSZEWSKA-BUBIEŃ (1981): 157

- WALUSZEWSKA-BUBIEŃ (1984): 247
 WALUSZEWSKA-BUBIEŃ (1985): 53
3. Za Murem Cave, on surface [Late Holocene ?]
 BOCHEŃSKI (1974b): 105, 200, 207
 4. Ujście [Early Middle Ages]
 WALUSZEWSKA-BUBIEŃ (1975b): 90
 WALUSZEWSKA-BUBIEŃ (1984): 247
 5. Żukowice [Early Middle Ages]
 WALUSZEWSKA-BUBIEŃ (1976b): 80, 85
 6. Santok [Early Middle Ages]
 WALUSZEWSKA-BUBIEŃ (1984): 249
 7. Szczecin [Early Middle Ages]
 NOGALSKI (1984): 33-34, 54-55, 64-65, 95, Pl. VIII: Phot. 20
 8. Gdańsk [Early Middle Ages]
 NOGALSKI (1984): 33-34, 60-61, 64-65, 95, Pl. VIII: Phot. 19
 9. Stare Drawsko [Early Middle Ages]
 KRUPSKA, WALUSEWSKA-BUBIEŃ (1984): 36, 50
 WALUSZEWSKA-BUBIEŃ (1984): 247
 10. Szamotuły [Modern Ages]
 KRUPSKA (1987b): 24, 27
 11. Gródek Nadbużny [Funnel Beaker Culture]
 GUMIŃSKI (1989): 33 [I]
 12. Jaskinia Dużej Sowy [Late Holocene]
 BOCHEŃSKI, TOMEK (1991): 555
 13. Koło [Late Middle Ages - Modern Ages]
 KRUPSKA (in press b)
 14. Bardo Śląskie [Late Middle Ages]
 CHRZANOWSKA (in press)
- Pleistocene:
1. Raj Cave, l. 10 [Vistulian? It may have penetrated from Holocene layer 11]
 BOCHEŃSKI (1974b): 105, 200, 207
 2. Mamutowa Cave, l. 2 [Vistulian]
 BOCHEŃSKI (1981): 13

Corvus corone LINNAEUS, 1758

[I *Corvus cornix*]

[II Polish name "wrona"]

- Holocene:
1. Szczecin [Early Middle Ages]
 KUBASIEWICZ (1955): 74, 79 [II]

2. Milicz [Early Middle Ages]
KUBASIEWICZ (1957a): 85
3. Wrocław [Early Middle Ages]
MYCZKOWSKI (1960): 166 [I]
WALUSZEWSKA-BUBIEŃ (1981): 157
4. Rockshelter above Niedostępną Cave, l. 6 [Late Holocene]
BOCHEŃSKI (1974b): 105-106, 200, 207
BOCHEŃSKI (1988): Tbl. 7
5. Brześć Kujawski [Neolithic]
BOGUCKI (1981): 3, 5
6. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1982): 176
7. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI et al. (1983): 446
BOCHEŃSKI, TOMEK (1991): 555
8. Stare Drawsko [Early Middle Ages, Modern Ages]
KRUPSKA, WALUSZEWSKA-BUBIEŃ (1984): 36, 51 [I]
9. Dąbrówka [Late Middle Ages]
BENECKE (1986): 14
10. Rockshelter in Biały Stream Valley [Late Holocene ?]
TOMEK (1989): 608-609
11. Gronowo [Early Middle Ages]
MAKOWIECKI, LESZCZYSZYN (1990): 146
12. Gniew [Late Middle Ages]
NOGALSKI (1992a): 50, 51, 52, 55
13. Mała Nieszawka [Late Middle Ages]
NOGALSKI et al. (1992): 81, 83, 85

Corvus frugilegus LINNAEUS, 1758

[1 Polish name "gawron"]

Holocene:

1. Kruszwica [Early Middle Ages]
SOBOCIŃSKI (1964): 163 [I]
2. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1965a): 135

It is a preliminary report – in none of the later publications of the author this species reappears, she however mentions *C. corone* and, above all, undivided *C. frugilegus* and *C. corone* (see WALUSZEWSKA-BUBIEŃ 1973, 1982, 1984, 1985)

3. Gniezno [Middle Ages]
SOBOCIŃSKI, SCHRAMM (1972): 173 [I]

4. Dąbrówka [Late Middle Ages]
BENECKE (1986): 14
5. Lubiń [Middle Ages – Modern Ages]
KRUPSKA (1991): 9, 14
6. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Corvus corone LINNAEUS, 1758 aut *Corvus frugilegus* LINNAEUS, 1758

[I *Corvus cornix*, *C. segetum* erinnernd]

[II *Corvus frugilegus*, *Corvus corone* or vice versa]

Lack of stratigraphic data [Pleistocene – Holocene]:

1. Kalinów [not strictly defined place and datation]
ROEMER (1883): 28 [I]

Holocene:

1. Gniezno [Middle Ages]
WALUSZEWSKA-BUBIEŃ (1969b): 158, (183: *C. frugilegus*)
WALUSZEWSKA-BUBIEŃ (1984): 247
2. Wrocław [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1971): 408
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 49 [II], but in table p. 53: *C. corone* - mistake?!
3. Opole [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1973): 201-202 [II]
WALUSZEWSKA-BUBIEŃ (1984): 247
WALUSZEWSKA-BUBIEŃ (1985): 49 [II], but in table p. 53: *C. corone* - mistake?!
4. Nakło [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1975c): 136 [II]
WALUSZEWSKA-BUBIEŃ (1984): 247
5. Bnin [Middle Ages]
WALUSZEWSKA-BUBIEŃ (1975d): 257 [II]
WALUSZEWSKA-BUBIEŃ (1984): 247
6. Gwieździn [Early Middle Ages]
WALUSZEWSKA-BUBIEŃ (1977a): 438, 449 [II]
WALUSZEWSKA-BUBIEŃ (1984): 247
7. Szczecin [Early Middle Ages]
NOGALSKI (1980): 28
NOGALSKI (1984): 31-33, 54-55, 64-65, 92-95,

8. Santok [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 247

9. Stare Drawsko [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 247

Only *C. corone* under the synonym *C. cornix* occurs in the original publications (KRUPSKA, WALUSZEWSKA-BUBIEŃ 1984)

10. Węgry [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 247

In the original description of the material (WALUSZEWSKA-BUBIEŃ 1976a) members of the genus *Corvus* are not mentioned.

11. Pelplin-Maciejewo, Lubiszewo [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1984): 247

12. Wolin [Early Middle Ages]

NOGALSKI (1984): 31-33, 56-57, 64-65, 92-95

14. Kołobrzeg [Early Middle Ages]

NOGALSKI (1984): 31-33, 58-59, 64-65, 92-95, Pl. VIII: Phot. 11-18

Corvus monedula LINNAEUS, 1758[I *Coloeus monedula*]

[II Polish name "kawka"]

Holocene:

1. Opole [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1965a): 135 [I]

WALUSZEWSKA-BUBIEŃ (1973): 201

WALUSZEWSKA-BUBIEŃ (1982): 175

WALUSZEWSKA-BUBIEŃ (1984): 247

WALUSZEWSKA-BUBIEŃ (1985): 53

2. Gniezno [Middle Ages, Modern Ages]

WALUSZEWSKA-BUBIEŃ (1969b): 158, 179, 182 [I]

SOBOCIŃSKI, SCHRAMM (1972): 173 [II]

WALUSZEWSKA-BUBIEŃ (1984): 247

3. Wrocław [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1971): 408

WALUSZEWSKA-BUBIEŃ (1981): 157

WALUSZEWSKA-BUBIEŃ (1984): 247

WALUSZEWSKA-BUBIEŃ (1985): 53

4. Gwieździn [Early Middle Ages]

WALUSZEWSKA-BUBIEŃ (1977a): 438, 449

WALUSZEWSKA-BUBIEŃ (1984): 247

5. Mamutowa Cave, l. 1 [Early Holocene]

BOCHEŃSKI (1981): 13-14

6. Santok [Early Middle Ages]
WALUSZEWSKA-BUBIENI (1984): 247
7. Smuszewo [Early Middle Ages]
WALUSZEWSKA-BUBIENI (1984): 247
8. Wolin [Early Middle Ages]
NOGALSKI (1984): 30-31, 56-57, 64-65, 92, Pl. VIII: Phot. 9
9. Kołobrzeg [Early Middle Ages]
NOGALSKI (1984): 30-31, 58-59, 64-65, 92, Pl. VIII: Phot. 7, 8, 10
10. Szamotuły [Modern Ages]
KRUPSKA (1987b): 24, 27
11. Bramka Rockshelter, l. 6 [Late Holocene]
BOCHEŃSKI (1988): 55, Tbl. 7
12. Nad Mosurem Starym Duża Cave, l. 2 [Late Holocene]
NADACHOWSKI et al. (1989a): 506 (cf.)
13. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555
14. Lubiń [Middle Ages]
KRUPSKA (1991): 9, 14
15. Koło [Late Middle Ages – Modern Ages]
KRUPSKA (in press b)

Pleistocene:

1. Mamutowa Cave, l. 2, 3 [Vistulian]
BOCHEŃSKI (1974b): 106-107, 200, 207
BOCHEŃSKI (1981): 13-14
2. Cave in Dziadowa Skała, l. 7, 8 [Vistulian]
BOCHEŃSKI JR. (1990): 142

Corvus sp.Holocene:

1. Milicz [early Iron Age]
KUBASIEWICZ (1957b): 180, 193

Corvidae indet.[1 *Corvidae*]Holocene:

1. Dużej Sowy Cave [Late Holocene]
BOCHEŃSKI, TOMEK (1991): 555

Pleistocene:

1. Raj Cave, l. 9 [Vistulian]
BOCHEŃSKI (1974b): 109.
2. Mamutowa Cave, l. 2 [Vistulian]
BOCHEŃSKI (1981): 16

3. Cave in Dziadowa Skała, l. 7 [Vistulian]

BOCHEŃSKI JR. (1990): 142

Pliocene:

1. Rębielice Królewskie 1A [MN 16]

JÁNOSSY (1974): 559 [I]

Passeriformes indet.[I *Passeriformes*][II *Passeriformes* I][III *Passeriformes* II]Holocene:

1. Cave in Dziadowa Skała, l. 10 [undefined period of the Holocene]

BOCHEŃSKI JR. (1990): 144

2. Dużej Sowy Cave [Late Holocene]

BOCHEŃSKI, TOMEK (1991): 555

Pleistocene:

1. Raj Cave, l. 1 [Vistulian]

BOCHEŃSKI (1974b): 137-138, 201, 208

2. Żabia Cave [Early Biharian]

BOSAK et al. (1982): 221 [I]

3. Cave in Dziadowa Skała, l. 8 [Vistulian]

BOCHEŃSKI JR. (1990): 144

Pliocene:

1. Rębielice Królewskie 1A [MN 16]

JÁNOSSY (1974): 532, 559 [I]

Oligocene:

1. Hłudno [MN 1]

BOCHEŃSKI, SZYMczyk (1979): 55

BOCHEŃSKI (1989): 93 [II]

2. Bachów [MN 1]

BOCHEŃSKI (1989): 93 [III]

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