



SUPPLEMENTARY MATERIAL TO THE ARTICLE:

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Appendix

Localities with remains of fossil theriofauna from Wielkopolska in an alphabetical order

Locality: Bednary.

Site details: 52°31'29"N, 17°12'14"E.

Age: uncertain, probable Holocene.

***Alces alces*:** antler.

Main references: Lubicz-Niezabitowski, 1929b; Pawłowska, 2015b.

Locality: Bogusław.

Site details: 51°53'42"N, 17°56'51"E.

Found in 1916.

Age: Late Pleistocene.

***Mammuthus primigenius*:** molar.

***Coelodonta antiquitatis*:** vertebrae.

Main references: Kaczmarek, 2004; Pawłowska, 2015a.

Locality: Broniszewo.

Site details: 52°20'59"N, 17°41'19"E.

Age: uncertain, probable Holocene.

***Bos primigenius*:** bones.

Main references: Łukasiewicz, 1952; Kowalski, 1959.

Locality: Brudzyń.

Site details: 52°46'41"N, 17°27'38"E.

Found in 1909 in peat.

Age: Late Pleistocene.

***Equus ferus*:** 5 fr. of bones.

Main references: Kaczmarek, 2004.

Locality: Czarnków.

Site details: 52°54'16"N, 16°33'51"E.

Found in 1909.

Age: Late Pleistocene.

***Coelodonta antiquitatis*:** scapula.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015b.

Locality: Czerniejewo.

Site details: 52°25'45"N, 17°29'30"E.

Found in 1911.

Age: Late Pleistocene-Holocene.

***Equus ferus*:** vertebrae, pelvis, ribs.

Main references: Kaczmarek, 2004.

Locality: Czerwieńsk.

Site details: 52°0'56"N, 15°24'18"E.

Found in 1914 while cleaning the Wrześnica river canal.

Age: Late Pleistocene-Holocene.

***Bos priscus*:** skull fr., pelvis, ribs.

Main references: Kaczmarek, 2004.

Locality: Czerwonak.

Site details: 52°28'11"N, 16°58'51"E.

Found in Warta river in 1909.

Age: Late Pleistocene.

***Coelodonta antiquitatis*:** scapula, right humerus, radius.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Kaczmarek, 2004; Pawłowska, 2015b.

Locality: Dębica.

Site details: 52°34'36"N, 17°28'14"E.

Found in 1915.

Age: Late Pleistocene-Holocene.

***Equus ferus*:** molar, long bone.

Main references: Kaczmarek, 2004.

Locality: Dobromierz.

Site details: 52°34'36"N, 17°28'14"E.

Found in 1913 in gravel pit.

Age: Late Pleistocene.

***Coelodonta antiquitatis*:** 5 fr. of bones.

Main references: Kaczmarek, 2004.

Locality: Gądk.

Site details: 52°18'50"N, 17°2'50"E.

Age: Late Pleistocene.

***Rangifer tarandus*:** bones.

Main references: Lubicz-Niezabitowski, 1914; Kowalski, 1959; Pawłowska, 2015b.

Locality: Gniezno.

Site details: 52°32'42"N, 17°36'13"E.

Age: uncertain, probable Late Pleistocene.

***Rangifer tarandus*:**

Main references: Lubicz-Niezabitowski, 1914; Kowalski, 1959; Pawłowska, 2015b.

Locality: Gołaszyn.

Site details: 52°32'42"N, 17°36'13"E.

Age: Late Pleistocene.

***Coelodonta antiquitatis*:** premolar.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015b.

Locality: Gościeszyn, Obra river.

Site details: 52°5'33"N, 16°12'17.68"E.

Age: Late Pleistocene-Holocene.

***Alces alces*:** antler fr.

Main references: Lubicz-Niezabitowski, 1929b; Kowalski, 1959; Pawłowska, 2015b.

Locality: Gryżyna.

Site details: 52°1'52"N, 16°42'34"E.

Age: Late Pleistocene.

***Bison priscus*:** bones.

Main references: Lubicz-Niezabitowski, 1948b; Kowalski, 1959.

Locality: Grzybno.

Site details: 52°10'28"N, 16°50'37"E.

Found in 1908 in peat at 1.5 m depth.

Age: Holocene.

***Alces alces*:** antler.

Main references: Kaczmarek, 2004.

Locality: Jabłonna.

Site details: 52°12'19.8"N, 16°12'17.4"E.

Found in 1891 in peat.

Age: Holocene.

***Cervus elaphus*:** antler.

Main references: Kaczmarek, 2004.

Locality: Iwno.

Site details: 52°24'19"N, 17°16'29"E.

Age: Late Pleistocene-Holocene.

***Bos primigenius*:** bones.

Main references: Lubicz-Niezabitowski, 1938ab; Łukasiewicz, 1952; Kowalski, 1959.

Locality: Jankowo.

Site details: 52°15'18"N, 17°18'7"E.

Found in 1909.

Age: Late Pleistocene.

***Coelodonta antiquitatis*:** right tibia fr.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015b; Marciszak et al., 2019a.

Locality: Jarocin.

Site details: 51°58'25"N, 17°30'4"E.

Age: Late Pleistocene-Holocene.

***Bos primigenius*:** complete skeleton.

Main references: Łukasiewicz, 1952; Kowalski, 1959; Marciszak et al., 2019a.

Locality: Jarocin, vicinity.

Site details: 51°58'25"N, 17°30'4"E.

Age: Late Pleistocene.

***Coelodonta antiquitatis*:** mandible fr. with 1 molar.

Main references: Maas, 1899; Lubicz-Niezabitowski, 1926.

Locality: Kąkolewo.

Site details: 51°52'3"N, 16°41'45"E.

Found in 1889 in gravel pit.

Age: Late Pleistocene.

***Mammuthus primigenius*:** tusk.

Main references: Kaczmarek, 2004; Pawłowska, 2015a.

Locality: Kalisz-Piwonice.

Site details: 51°43'15"N, 18°6'17"E.

Age: Late Pleistocene.

***Mammuthus primigenius*:** mandible, tusk, femur, pelvis.

Main references: Pawłowska, 2015a.

Locality: Karzec.

Site details: 51°45'26"N, 16°54'9"E.

Found in 12.03.1889.

Age: Late Pleistocene.

***Coelodonta antiquitatis*:** right femur fr., right pelvis fr.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015a; Marciszak et al., 2019a.

Locality: Klempicz.

Site details: 52°46'2"N, 16°29'35"E.

Age: Late Pleistocene.

***Mammuthus primigenius*:** molar.

Main references: Pawłowska, 2015a.

Locality: Kobylnica.

Site details: 52°26'40"N, 17°4'37"E.

Age: Late Pleistocene.

***Coelodonta antiquitatis*:** skull fr., left m3.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015b.

Locality: Kobylnica.

Site details: 52°26'40"N, 17°4'37"E.

Found in 1895.

Age: Holocene.

***Bos primigenius*:** 2 horn fr.

Main references: Kaczmarek, 2004.

Locality: Koło.

Site details: 52°12'7"N, 18°38'50"E.

Age: Holocene.

***Alces alces*:** antler.

Main references: Stefaniak, 2015; Stefaniak et al., 2020.

Locality: Konarzyce Śrem.

Site details: 52°4'43"N, 17°11'59"E.

Found in 1974.

Age: Late Pleistocene.

***Mammuthus primigenius*:** molar.

Main references: Pawłowska, 2015a.

Locality: Konin, Brown Coal Mine called "Morzysław", "Niesłusz", "Gosławice", "Pątnów", "Kazimierz", "Józwin".

Site details: 52°19'21"N, 18°14'55"E.

Age: MIS 5e-3.

***Ursus arctos taubachensis*:** left maxilla with M1-M2, distal half of left humerus.

***Palaeoloxodon antiquus*:** partially preserved skeleton of large tusker.

***Mammuthus primigenius*:** 2 skull fr., 6 tusks and tusk fragments, 5 molars, mandible fr., 3 costae, ulna, pelvis fr., 128 bone fr.

***Stephanorhinus kirchbergensis*:** left molar, fr. of left pelvis.

***Coelodonta antiquitatis*:** partially preserved skeleton of one individual, among them skull, tusk, molars, m3, tibia, astragalus, calcaneus, navicular, cuboid, fibula, mesocuneiform, metatarsal 5, phalanges, sesamoids, femur.

***Bos primigenius*:** right femur, femur fr.

***Bison prisus*:** 2 skull fr. with partially preserved horns.

Main references: Stankowski & Tobolski, 1982; Fedorowicz & Olszak, 1988; Gorczyca, 1988; Jakubowski, 1988, 1996; Stankowski, 1988; Lorek, 1988; Maćkowiak, 1988; Pawłowska, 2015ab; Fedorowicz & Lorek,

2019; Frydrychowicz, 2021; Stefaniak et al., 2023.

Locality: Kotowiecko.

Site details: 51°46'9.12"N, 17°56'40.22"E.

Age: uncertain, probable Holocene.

***Alces alces*:** antler fr.

Main references: Lubicz-Niezabitowski, 1929b; Kowalski, 1959; Pawłowska, 2015b.

Locality: Kowanowo.

Site details: 52°39'12"N, 16°51'0"E.

Found in 1898 and in 1909.

Age: Late Pleistocene.

***Mammuthus primigenius*:** 2 tusk fr., 2 molars, teeth.

***Coelodonta antiquitatis*:** mandible fr. with m1.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Kaczmarek, 2004; Pawłowska, 2015ab.

Locality: Kowanówko (Kowanówek).

Site details: 52°40'23.22"N, 16°50'55.6"E.

Age: MIS 3.

***Panthera spelaea spelaea*:** fragment of left mandible without symphyseal area with worn m1 of large male.

***Coelodonta antiquitatis*:** left p2, left and right p4, right m1, 2 right m2, right metacarpal 3.

***Bos primigenius*:** bones.

Main references: Lubicz-Niezabitowski, 1926, 1938ab; Łukasiewicz, 1952; Kowalski, 1959; Barycka, 2008; Pawłowska, 2015a.

Locality: Krosinko.

Site details: 52°14'1.42"N, 16°48'51.88"E.

Age: MIS 3-1.

***Ursus sp.*:** distal half of right humerus.

***Panthera spelaea spelaea* (3/2):** left mandible with p4-m1, right mandible, right ulna.

***Mammuthus primigenius* (70/):** 2 skull fr., 23 isolated teeth, 2 mandibles, atlas, vertebrae, 7 ribs, 3 scapulae, humerus, 2 carpals, 1 metacarpal, 7 pelvises, 3 femurs, fibula, talus, tarsal.

***Coelodonta antiquitatis*:** NISP 41: 5 skulls fr., 3 isolated teeth, mandible, 6 vertebrates,

rib, scapula, 2 humeri, 3 radii, 2 ulnae, carpal, 3 pelvises, 4 femurs, 2 patella, 2 tibiae, 2 metatarsals, phalanx.

***Equus sp.* (31/):** skull, 5 isolated teeth, 2 atlases, 4 vertebrates, 2 ribs, 2 radii, 2 metacarpals, pelvis, 3 tibiae, 2 talus, 3 metatarsals, 4 phalanges.

***Megaloceros giganteus* (3/):** skull with antler fr., talus, metatarsal.

***Alces alces* (5/):** bones.

***Cervus elaphus* (3/):** radius, metacarpal, calcaneus.

***Rangifer tarandus* (13/):** 2 skull fr., 11 antler fr.

***Dama dama* (1/1):** antler.

***Bison priscus* (1/1):** skull.

***Bos primigenius* (6/):** skull, isolated tooth, mandible, 2 ribs, radius.

***Bos sp. or Bison sp.* (25/):** 2 skull fr., tooth, mandible, 2 atlas, axis, 2 vertebrates, rib, 3 scapula fr., humerus fr., radius, 2 metacarpals, femur fr., 2 tibiae fr., talus, 2 metatarsals, 2 phalanges.

Ruminantia (5): bones.

Main references: Lorenc & Pawłowska, 2010; Pawłowska, 2015ab, 2022; Marciszak et al., 2021; Pawłowska et al., 2022.

Locality: Kruchowo.

Site details: 52°36'25"N, 17°48'10"E.

Found in 1903 in peat at the 1 m depth.

Age: Holocene.

***Cervus elaphus*:** antler.

Main references: Kaczmarek, 2004.

Locality: Krześlce.

Site details: 52°31'19.78"N, 17°15'2.52"E.

Found in 1861.

Age: uncertain, probable Holocene.

***Alces alces*:** almost complete skeleton.

Main references: Anonymous, 1860; Szafarkiewicz, 1863ab; Lubicz-Niezabitowski, 1929b, 1932; Kowalski, 1959; Pawłowska, 2015b.

Locality: Krzykosy.

Site details: 52°6'36"N, 17°22'20"E.

Found in 2011.

Age: Late Pleistocene.

Mammuthus primigenius: rib.

Main references: Pawłowska, 2015a.

Locality: Leszno.

Site details: 51°50'45"N, 16°34'50"E.

Age: Late Pleistocene.

Mammuthus primigenius: molar, bones.

Coelodonta antiquitatis: horn.

Bos primigenius: complete skull, skull fr. with fr. of left horn.

Main references: this paper.

Locality: Luboń.

Site details: 52°20'44.9"N, 16°52'42.1"E.

Found in gravel pit in 1874 and 1910 (*M. primigenius*), found in 1906 and 1910 (*C. antiquitatis*).

Age: Late Pleistocene.

Mammuthus primigenius: molar, bones.

Coelodonta antiquitatis: upper teeth.

Main references: Schwartz, 1875; Lubicz-Niezabitowski, 1926; Kowalski, 1959; Kaczmarek, 2004; Pawłowska, 2015ab.

Locality: Luboń-Żabikowo.

Site details: 52°20'51"N, 16°51'47"E.

Found in 1889 and 1904 in sands (*M. primigenius*).

Age: Late Pleistocene.

Mammuthus primigenius: tusk fr., molar.

Coelodonta antiquitatis: mandible with tooth, molar.

Main references: Pawłowska, 2015ab.

Locality: Lubosz.

Site details: 52°31'46"N, 16°10'54"E.

Age: uncertain, probable Holocene.

Alces alces: antler fr.

Main references: Lubicz-Niezabitowski, 1929b; Kowalski, 1959; Pawłowska, 2015b.

Locality: Łabiszyn, Noteć river.

Site details: 52°57'11"N, 17°55'10"E.

Age: uncertain, probable Holocene.

Alces alces: antler.

Main references: Lubicz-Niezabitowski, 1929b; Kowalski, 1959; Pawłowska, 2015b.

Locality: Łukaszewko.

Site details: 52°36'26"N, 17°43'19"E.

Found in 1928.

Age: uncertain, probable Holocene.

Alces alces: almost complete skeleton.

Main references: Lubicz-Niezabitowski, 1929b, 1932; Rakowski, 1933; Hoyer, 1937; Kostróń, 1938; Kowalski, 1959; Pawłowska, 2015b; Marciszak et al., 2019a.

Locality: Łukowo.

Site details: 53°0'18"N, 21°18'25"E

Age: Late Pleistocene.

Mammuthus primigenius: bones.

Main references: Conventz, 1898; Kowalski, 1959; Pawłowska, 2015a.

Locality: Mechowó (Wierzenica-Mechowó).

Site details: 52°26'44"N, 17°3'1"E.

Found in 20.03.1890 and 28.06.1890 in gravel pit.

Age: Late Pleistocene.

Canis lupus spelaeus: m1 fr., left metatarsal 5.

Ursus arctos taubachensis: distal half of right humerus, right metacarpal 5.

Mammuthus primigenius: tusk, molars, bones.

Coelodonta antiquitatis: skull fr., 2 maxilla fr. with teeth, mandible with teeth, lower teeth, metacarpal 4, pelvis.

Bison priscus: bones.

Capreolus capreolus: bones.

Main references: Maas, 1899; Wahnschaffe, 1909; Hermann, 1913; Lubicz-Niezabitowski, 1926; Kowalski, 1959; Kaczmarek, 2004; Pawłowska, 2015ab.

Locality: Miłosław.

Site details: 52°12'10"N, 17°29'22"E.

Age: uncertain, probable Holocene.

Alces alces: antler fr.

Main references: Lubicz-Niezabitowski, 1929b; Kowalski, 1959; Pawłowska, 2015b; Marciszak et al., 2019a.

Locality: Mosina.

Site details: 52°14'48"N, 16°50'42"E.

Age: Late Pleistocene.

Coelodonta antiquitatis: skull fr.

Main references: Stefaniak et al., 2023.

Locality: Mrowino.

Site details: 52°30'56"N, 16°42'7"E.

Found in 1888 and 1894 in peat.

Age: uncertain, probable Holocene.

Cervus elaphus: 4 antler fr.

Main references: Kaczmarek, 2004.

Locality: Murowana Goślina.

Site details: 52°34'27.02"N, 17°0'32.14"E.

Age: Late Pleistocene.

Rangifer tarandus: bones.

Main references: Lubicz-Niezabitowski, 1914, 1915; Kowalski, 1959; Pawłowska, 2015b.

Locality: Nowe Dwory.

Site details: 52°53'58.9"N, 16°19'9.9"E.

Found in 1907 in sands, 2 m depth, in peatbog.

Age: Late Pleistocene.

Alces alces: antler.

Cervus elaphus: antler fr.

Main references: Kaczmarek, 2004.

Locality: Nowe Miasto nad Wartą.

Site details: 52°5'24"N, 17°24'39"E.

Found in 1907 during building a bridge on Warta river.

Age: Late Pleistocene.

Mammuthus primigenius: molar.

Main references: Pawłowska, 2015a.

Locality: Oborniki.

Site details: 52°38'41"N, 16°48'51"E.

Multiple findings since the half of 19th c., among others before 1896, and in 1900, 1914, 1925, 1926, 1930, 2007, from 2011 till recent. All finds in gravels pits.

Age: Pliocene, Late Pleistocene.

Mammuthus primigenius: deciduous m3.

Palaeoloxodon antiquus: M2, m3.

Mammuthus trogontherii: no data.

Tetralophodon longirostris: right M3.

Stephanorhinus kirchbergensis: mandible, teeth.

Coelodonta antiquitatis: multiple bones, among others: skull fr., mandible with teeth, 16 molars, 3 scapulae, 2 humeri, thoracic vertebra, radii, pelvis, femur, astragalus, metatarsus 3.

Equus ferus: bones.

Rangifer tarandus: bones.

Megaloceros giganteus: bones.

Bison priscus: bones.

Main references: Wahnschaffe, 1897, 1900ab; Chłapowski, 1904, 1905; Krause, 1904, 1925; Menzel, 1911; Hermann, 1911, 1913; Kiernik, 1914; Wolff, 1914; Lubicz-Niezabitowski, 1912, 1914, 1926; Sonntag, 1919; Schroeder, 1930; Kowalski, 1959; Pawłowska, 2015ab.

Locality: Obrzycko.

Site details: 52°42'23"N, 16°31'45"E.

Found in 1905 during road construction.

Age: Late Pleistocene.

Mammuthus primigenius: molar.

Main references: Kaczmarek, 2004; Pawłowska, 2015a.

Locality: Ołobok, Proсна river.

Site details: 51°38'3"N, 18°4'2"E.

Found in 1907 in sands, 2 m depth, in peatbog.

Age: Late Pleistocene.

Cervus elaphus: antler fr.

Main references: Kaczmarek, 2004.

Locality: Orzechowo, Warta river.

Site details: 52°7'35"N, 17°28'40"E.

Found in 1900 in sands, 2 m depth.

Age: uncertain, probable Holocene.

Equus ferus: pelvis.

Cervus elaphus: antler.

Bison priscus: horn.

Main references: Kaczmarek, 2004.

Locality: Ostrów Wielkopolski.

Site details: 51°39'17"N, 17°48'26"E.

Age: uncertain, probable Holocene.

Bos primigenius: skull.

Main references: Łukasiewicz, 1952; Kowalski, 1959.

Locality: Ostrzeszów.
Site details: 51°25'30"N, 17°55'47"E.
Age: Late Pleistocene.
Coelodonta antiquitatis: skull fr.
Main references: Chłapowski, 1905; Lubicz-Niezabitowski, 1926; Kowalski, 1959; Kaczmarek, 2004; Pawłowska, 2015b.

Locality: Pamiątkowo.
Site details: 52°33'11"N, 16°40'49"E.
 Found in a peat.
Age: Late Pleistocene.
Megaloceros giganteus: bones.
Main references: Kowalski, 1959.

Locality: Paproć.
Site details: 52°17'58"N, 16°9'25"E.
 Found in 1903 in peatbog.
Age: uncertain, probable Holocene.
Bos primigenius: 2 horn fr.
Main references: Kaczmarek, 2004.

Locality: Perzów.
Site details: 51°16'36"N, 17°48'48"E.
Age: Late Pleistocene.
Coelodonta antiquitatis: pelvis.
Main references: Gűrich, 1885; Kowalski, 1959.

Locality: Piła-Koszyce (Kuźnica Piłska).
Site details: 53°10'26"N, 16°44'30"E.
Age: Late Pleistocene.
Mammuthus primigenius: bones.
Main references: Conventz, 1907; Kowalski, 1959; Pawłowska, 2015a.

Locality: Piłka.
Site details: 52°47'28"N, 16°3'19"E.
 Found in Paklica river while cleaning.
Age: uncertain, probable Holocene.
Bos primigenius: skull.
Main references: Kaczmarek, 2004.

Locality: Połajewo.
Site details: 52°47'55"N, 16°44'5"E.
Age: uncertain, probable Holocene.
Alces alces: antler fr.
Main references: Lubicz-Niezabitowski, 1929b; Kowalski, 1959; Pawłowska, 2015b.

Locality: Poznań.
Site details: 52°24'30"N, 16°56'3"E.
 Found in 1905 (*B. primigenius*) and in 1909 (*C. antiquitatis*).
Age: Late Pleistocene.
Coelodonta antiquitatis: skull fr., molar, scapula fr.
Cervus elaphus: bones.
Capreolus capreolus: bones.
Bison priscus: skull.
Bos primigenius: molar.
Main references: Maas, 1900; Herman, 1913; Sonntag, 1919; Kowalski, 1959; Lubicz-Niezabitowski, 1948a; Kaczmarek, 2004.

Locality: Poznań, vicinity.
Site details: 52°24'30"N, 16°56'3"E.
Age: Late Pleistocene.
Mammuthus primigenius: bones.
Rangifer tarandus: bones.
Cervus elaphus: bones.
Main references: Maas, 1899, 1900; Chłapowski, 1904; Wahnschaffe, 1909; Kowalski, 1959; Lubicz-Niezabitowski, 1948a.

Locality: Poznań-Brama Bydgoska.
Site details: 52°24'25.7"N, 16°55'9.2"E.
 Found in 1903 in gravel pit.
Age: Late Pleistocene.
Mammuthus primigenius: thoracic.
Main references: Kaczmarek, 2004.

Locality: Poznań-Dębiec.
Site details: 52°21'0"N, 16°54'0"E.
 Found in 1904 in gravel pit at 2 m depth (*M. primigenius*). Findings in 1905, 1907, 1909, 1911 and 1919 (*C. antiquitatis*).
Age: Late Pleistocene.
Mammuthus primigenius: 8 tusk fr., 18 bones, rib, scapula, metatarsal.
Coelodonta antiquitatis: 2 skulls, scapula, 2 humeri, metacarpal 4, pelvis.
Equus ferus: molar.
Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Kaczmarek, 2004; Pawłowska, 2015ab.

Locality: Poznań-Dębiec/Górczyn.
Site details: 52°23'54"N, 16°53'57.9"E.
 Found in 1936 in gravel pit, 2.5 m depth.
Age: Late Pleistocene.
Mammuthus primigenius: 1.5 m long tusk fr., other remains.
Main references: Lubicz-Niezabitowski, 1926; Rakowski, 1933; Kowalski, 1959; Kaczmarek, 2004; Pawłowska, 2015a.

Locality: Poznań-Główna.
Site details: 52°25'49"N, 16°58'50"E.
 Found before 1898 and in 1907-1908 (*M. primigenius*) and in 1928 (*A. alces*).
Age: Late Pleistocene.
Mammuthus primigenius: 2 molars, bones.
Coelodonta antiquitatis: bones.
Equus ferus: bones.
Alces alces: skeleton.
Cervus elaphus: bones.
Bos primigenius: bones.
Main references: Beuschausen & Kühn, 1898; Maas, 1899; Lubicz-Niezabitowski, 1926, 1929b; Kowalski, 1959; Pawłowska, 2015ab.

Locality: Poznań-Malta.
Site details: 52°24'28"N, 16°58'47"E.
 Found in 25.10.1889 (*C. antiquitatis*).
Age: Late Pleistocene.
Mammuthus primigenius: bones.
Coelodonta antiquitatis: mandible with teeth, 2 pelvis fr.
Bos primigenius: 2 skull fr., 3 bones.
Main references: Maas, 1899; Lubicz-Niezabitowski, 1926; Kowalski, 1959; Kaczmarek, 2004; Pawłowska, 2015ab.

Locality: Poznań-Malta (Dolina Świętojańska).
Site details: 52°24'7"N, 16°58'14"E.
 Found in 1917 in gravel pit.
Age: Late Pleistocene.
Mammuthus primigenius: bones.
Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Kaczmarek, 2004; Pawłowska, 2015a.

Locality: Poznań-Malta (Młyn Świętojański).
Site details: 52°24'7"N, 16°58'14"E.
 Found in 1890 during groundworks.
Age: Late Pleistocene.
Mammuthus primigenius: molar.
Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015a.

Locality: Poznań-Naramowice.
Site details: 52°27'35"N, 16°56'45"E.
Age: Late Pleistocene.
Rangifer tarandus: bones.
Main references: Lubicz-Niezabitowski, 1914; Kowalski, 1959; Pawłowska, 2015b.

Locality: Poznań-Ostrów Tumski.
Site details: 52°24'41.08"N, 16°56'52.29"E.
 Found in 1897 and 1902.
Age: Late Pleistocene.
Mammuthus primigenius: 4 remains: molar, thoracic.
Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Kaczmarek, 2004; Pawłowska, 2015a.

Locality: Poznań-Rataje.
Site details: 52°23'12.12"N, 16°56'54.96"E.
 Found in 1897.
Age: Late Pleistocene.
Mammuthus primigenius: pelvis.
Coelodonta antiquitatis: bones.
Main references: Maas, 1899; Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015ab.

Locality: Poznań-Sołacz.
Site details: 52°25'25.55"N, 16°54'7.49"E.
 Found in 20th century.
Age: Late Pleistocene.
Mammuthus primigenius: bones.
Main references: Kaczmarek, 2004.

Locality: Poznań-Spławie.
Site details: 52°21'3.96"N, 17°1'26.76"E.
Age: Late Pleistocene.
Mammuthus primigenius: teeth.
Main references: Maas, 1899; Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015a.

Locality: Poznań-Starołęka.

Site details: 52°22'2.5"N, 16°55'51.8"E.

Age: Late Pleistocene.

***Mammuthus primigenius*:** teeth.

***Coelodonta antiquitatis*:** bones.

Main references: Maas, 1899; Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015ab.

Locality: Poznań-Szelągowska (Poznań-Szeląg).

Site details: 52°25'43"N, 16°57'5"E.

Found in 1897 and 1915, in gravel pit at 16 m depth (*M. primigenius*).

Found in 1910 and 1913 (*C. antiquitatis*) and before 1929 (*E. ferus* and *B. priscus*).

Age: Late Pleistocene.

***Mammuthus primigenius*:** molar, right-scapula.

***Coelodonta antiquitatis*:** radius, tibia, metatarsal 3.

***Equus ferus*:** bones.

***Cervus elaphus*:** bones.

***Bison priscus*:** skull.

***Bos primigenius*:** bones.

Main references: Beuschausen & Kühn, 1898; Maas, 1899; Lubicz-Niezabitowski, 1926, 1929a; Hoyer, 1937; Łukasiewicz, 1952; Kowalski, 1959; Pawłowska, 2015ab.

Locality: Poznań, vicinity.

Site details: Found in 2009 (*M. primigenius*).

Found before 1926 (*C. antiquitatis*).

Age: Late Pleistocene.

***Mammuthus primigenius*:** femur, tibia.

***Coelodonta antiquitatis*:** skull fr.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015ab.

Locality: Poznań-Wilda.

Site details: 52°23'35"N, 16°55'13"E.

Found in 1889-1893, 1895, 1897, 1900, 1906, 1907 (*M. primigenius*).

Found in 1893 and 1897 (*C. antiquitatis*).

Found in 1906 in gravel pit at 1.5 m depth.

Age: Late Pleistocene.

***Mammuthus primigenius*:** tusk fr., molars, bones.

***Coelodonta antiquitatis*:** skulls, upper tooth, humerus, femur, radius, pelvis.

***Alves alves*:** antler.

Main references: Maas, 1899; Lubicz-Niezabitowski, 1926; Kowalski, 1959; Kaczmarek, 2004; Pawłowska, 2015ab.

Locality: Poznań-Wilczy Młyn.

Site details: 52°26'21"N, 16°57'22"E

Found in 24.10.1896 and in 1906.

Age: Late Pleistocene.

***Coelodonta antiquitatis*:** scapula, pelvis.

Main references: Maas, 1899; Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015b.

Locality: Poznań-Żegrze.

Site details: 52°23'21"N, 16°57'53"E.

Found in 1909.

Age: Late Pleistocene.

***Coelodonta antiquitatis*:** molar, pelvis.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015b.

Locality: Promno.

Site details: 52°27'17"N, 17°16'2"E.

Found in 1907 while repairing the road.

Age: Late Pleistocene.

***Mammuthus primigenius*:** tusk.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska 2015a.

Locality: Prosna river, Gizałki.

Site details: 52°2'40"N, 17°45'56"E.

Age: Late Pleistocene.

***Coelodonta antiquitatis*:** mandible with teeth, rib.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015b.

Locality: Prosna river.

Site details: no data.

Age: uncertain, probable Holocene.

***Alces alces*:** antler fr.

Main references: Lubicz-Niezabitowski, 1929b; Kowalski, 1959; Pawłowska, 2015b.

Locality: Przysieka Stara.

Site details: 52°2'8.09"N, 16°36'14.09"E.

Found in 1909.

Age: uncertain, probable Holocene.

***Equus ferus*:** skull.

Main references: Kaczmarek, 2004.

Locality: Pyzdry.

Site details: 52°10'13"N, 17°41'24"E.

Age: MIS 3.

***Mammuthus primigenius*:** tusk, radius, vertebrates.

***Coelodonta antiquitatis*:** bones.

***Equus ferus*:** bones.

***Megaloceros giganteus*:** bones.

***Cervus elaphus*:** bones.

***Rangifer tarandus*:** bones.

***Bison priscus*:** bones.

***Ovibos moschatus*:** damaged skull.

Main references: Pawłowska, 2015ab; Stefaniak, 2015; Stefaniak et al., 2020, 2021a.

Locality: Robaków, Proсна river.

Site details: 52°2'14"N, 17°43'24"E.

Found before 1896.

Age: Late Pleistocene.

***Megaloceros giganteus*:** antler.

Main references: Nehring, 1896; Kiernik, 1911, 1912; Lubicz-Niezabitowski, 1926, 1934, 1935; Kowalski, 1959; Pawłowska, 2015b; Marciszak et al., 2019a.

Locality: Rogówek.

Site details: 51°56'6"N, 17°30'21"E.

Age: uncertain, probable Holocene.

***Alces alces*:** antler fr.

Main references: Lubicz-Niezabitowski, 1929b; Kowalski, 1959; Pawłowska, 2015b; Marciszak et al., 2019a.

Locality: Rososzyca.

Site details: 51°37'53"N, 18°0'56"E.

Age: Late Pleistocene.

***Ursus arctos priscus*:** right mandible with damaged ramus and present m1-m3.

Main references: this paper.

Locality: Rudki.

Site details: 52°36'19.95"N, 16°29'5.08"E.

Found in 1889.

Age: uncertain, probable Holocene.

***Cervus elaphus*:** antler fr.

Main references: Kaczmarek, 2004.

Locality: Siedlimowo.

Site details: 52°29'25"N, 18°13'27"E.

Found in 1913.

Age: uncertain, probable Holocene.

***Bos primigenius*:** skull fr.

Main references: Kaczmarek, 2004.

Locality: Skwierzyzna-Oberski Młyn.

Site details: 52°35'56"N, 15°30'22"E.

Found in 1904 in riverbed of Obra river.

Age: Late Pleistocene.

***Mammuthus primigenius*:** mandible.

Main references: Kaczmarek, 2004.

Locality: Szkaradowo.

Site details: 51°35'8"N, 17°9'5"E.

Age: MIS 5-3.

***Panthera spelaea spelaea*:** distal end of right femur.

Material status: Marciszak et al., 2021.

Locality: Sptawie.

Site details: 51°59'22.31"N, 16°37'53.98"E.

Found in 1896.

Age: Late Pleistocene.

***Mammuthus primigenius*:** mandible, vertebrate.

***Coelodonta antiquitatis*:** skull, 3 sinister mandibles with teeth, left M2 and M3, right M3, right scapula, left radius fr., right radius juv. fr., left ulna, 2 right pelvis, left tibia, left talus; metapodium fr.

Main references: Stefaniak et al., 2021a.

Locality: Starkówiec Piątkowski.

Site details: 52°12'2"N, 17°24'37"E.

Age: uncertain, probable Holocene.

***Bos primigenius*:** skull.

Main references: Łukasiewicz, 1952; Kowalski, 1959.

Locality: Starołęka.

Site details: 52°22'28.12"N, 16°56'11.74"E

Age: Late Pleistocene.

***Coelodonta antiquitatis*:** bones.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015b.

Locality: Stęszew.

Site details: 52°16'44"N, 16°42'29"E.

Found before 1879 (*M. primigenius*) and in 1908 (*C. antiquitatis*) in a gravel pit.

Age: Late Pleistocene.

***Mammuthus primigenius*:** molar.

***Coelodonta antiquitatis*:** 2 bones.

Main references: Kaczmarek, 2004; Pawłowska, 2015a.

Locality: Śmigiel.

Site details: 52°0'33"N, 16°31'7"E.

Age: Late Pleistocene.

***Mammuthus primigenius*:** molar.

Main references: this paper.

Locality: Śrem.

Site details: 52°5'19"N, 17°0'53"E.

Found in 1907 (*C. antiquitatis*) and in 1906 (*E. ferus*).

Age: Late Pleistocene.

***Coelodonta antiquitatis*:** atlas.

***Equus ferus*:** 3 molars.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015b.

Locality: Środa Wielkopolska.

Site details: 52°13'55"N, 17°15'59"E.

Found in 1905.

Age: Late Pleistocene.

***Mammuthus primigenius*:** long bone fr.

***Alces alces*:** antler fr.

Main references: Lubicz-Niezabitowski, 1929b; Kowalski, 1959; Kaczmarek, 2004; Pawłowska, 2015b.

Locality: Trzemeszno.

Site details: 52°33'40"N, 17°49'20"E.

Found in 1906.

Age: Late Pleistocene.

***Mammuthus primigenius*:** molar.

Main references: Kaczmarek, 2004.

Locality: Turek vicinity, "Adamów" and "Kozmin" Brown Coal Mine.

Site details: 52°0'49.5"N, 18°30'23.3"E

Findings in 1970s, 1980s, 1990s, and 2014.

Age: MIS 3-1.

***Mammuthus primigenius*:** tusks, M2, M3, mandible, atlas, ribs, scapulae, femurs.

***Coelodonta antiquitatis*:** skull.

***Equus ferus*:** bones.

***Megaloceros giganteus*:** bones.

***Rangifer tarandus*:** bones.

***Bison prisus*:** bones.

Main references: Pawłowska, 2015ab; Stefaniak, 2015; Stefaniak et al., 2020.

Locality: Ujście.

Site details: 53°3'9"N, 16°43'59"E.

Found in 1900 during dredging of Noteć river.

Age: uncertain, probable Holocene.

***Equus ferus*:** pelvis.

Main references: Kaczmarek, 2004.

Locality: Wałownica.

Site details: 53°1'35"N, 18°0'12"E.

Probable location of *M. primigenius* in 1935.

Age: Late Pleistocene.

***Mammuthus primigenius*:** skeleton?

Main references: Kaczmarek, 2004.

Locality: Warta River near Oborniki.

Site details: 52°36'17"N, 16°55'58"E.

Age: uncertain, probable Holocene.

***Alces alces*:** antler fr.

Main references: Lubicz-Niezabitowski, 1929b; Pawłowska, 2015b.

Locality: Warta River near Poznań.

Site details: no data.

Found in 1868, 1875, 1893, 1910 (*M. primigenius*) and in 1910 (*C. antiquitatis*, *A. alces*, *C. elaphus*)

Age: Late Pleistocene.

***Mammuthus primigenius*:** mandible half with molar, 6 molars, pelvis.

Main references: Kaczmarek, 2004; Pawłowska, 2015a.

Locality: Warta River near Puszczykowo.

Site details: 52°16'54"N, 16°51'15"E.

Loose find before 1885.

Age: Late Pleistocene.

Mammuthus primigenius: tibia.

Main references: Kaczmarek, 2004; Pawłowska, 2015a.

Locality: Warta River near Wronki.

Site details: 52°42'28"N, 16°22'43"E.
Found in 1910.

Age: Late Pleistocene.

Coelodonta antiquitatis: tooth.

Main references: Kaczmarek, 2004.

Locality: Wielkopolska region, no specific sites.

Site details: no data.

Found in 1918 (*C. antiquitatis*).

Age: Late Pleistocene.

Coelodonta antiquitatis: ulna fr.

Alces alces: 3 skulls.

Main references: Lubicz-Niezabitowski, 1929b; Kaczmarek, 2004; Pawłowska, 2015b.

Locality: Wielowieś.

Site details: 51°35'10"N, 18°5'53"E.

Age: uncertain, probable Holocene.

Alces alces: antler fr.

Main references: Lubicz-Niezabitowski, 1929b; Pawłowska, 2015b; Marciszak et al., 2019a.

Locality: Wierzenica.

Site details: 52°27'42"N, 17°4'5"E.

Age: Late Pleistocene.

Coelodonta antiquitatis: left radius.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015b.

Locality: Winnagóra.

Site details: 52°12'17"N, 17°26'48"E.
Found in 1906.

Age: uncertain, probable Holocene.

Bos bonasus: horn fr.

Main references: Lubicz-Niezabitowski, 1938b; Kowalski 1959.

Locality: Wołogoszcz.

Site details: 52°59'30"N, 15°50'32"E.

Age: Late Pleistocene.

Mammuthus primigenius: bones.

Main references: Pawłowska, 2015a.

Locality: Wólka.

Site details: 52°19'16.31"N, 17°46'49.33"E.
Found in 1917.

Age: Late Pleistocene.

Mammuthus primigenius: bones.

Main references: Kaczmarek, 2004.

Locality: Września.

Site details: 52°19'30.4"N, 17°33'54.9"E.

Age: MIS 3.

Coelodonta antiquitatis: skull fragment.

Main references: Stefaniak et al., 2023.

Locality: Zalesie.

Site details: 51°59'29"N, 17°22'49"E.

Found in 1906, in gravel pit, 6 m depth (*M. primigenius*). Found in 1906 and 1910 (*C. antiquitatis*).

Age: Late Pleistocene.

Mammuthus primigenius: right m2, bones.

Coelodonta antiquitatis: lower molar, scapula, pelvis.

Equus ferus: bones.

Rangifer tarandus: bones.

Bison priscus: bones.

Main references: Behr & Tietze, 1911; Herman, 1913; Sonntag, 1919; Lubicz-Niezabitowski, 1914, 1915, 1926; Kowalski, 1959; Pawłowska, 2015ab; Marciszak et al., 2019a.

Locality: Zaniemyśl.

Site details: 52°9'24"N, 17°9'36"E.

Age: Late Pleistocene.

Mammuthus primigenius: ulna.

Main references: Pawłowska, 2015a.

Locality: Żabiczyn.

Site details: 52°47'12.55"N, 17°21'54.28"E.

Age: uncertain, probable Holocene.

Alces alces: antler fr.

Main references: Szafarkiewicz, 1863ab; Kowalski, 1959.

Locality: Żabikowo.

Site details: 52°13'37"N, 17°13'15"E.

Age: Late Pleistocene.

Mammuthus primigenius: bones.

Coelodonta antiquitatis: mandible with teeth, lower teeth; right m1; mandible with p4.

Alces alces: antler fr.

Megaloceros giganteus: bones.

Main references: Maas, 1899; Kiernik, 1913, 1914; Lubicz-Niezabitowski, 1926, 1929b; Kowalski, 1959; Pawłowska, 2015b.

Locality: Żegocin.

Site details: 52°0'8"N, 17°46'46.9"E.

Age: Late Pleistocene-Holocene.

Alces alces: skull fr.

Megaloceros giganteus: skull fr.

Main references: Kiernik, 1913; Marciszak et al., 2019a.

Locality: Żerków.

Site details: 52°4'6"N, 17°33'46"E.

Found in 1902 in gravel pit.

Age: Late Pleistocene.

Ursus arctos taubachensis: maxilla with C1 and M1-M2.

Panthera spelaea cf. fossilis: left C1, right mc 5.

Mammuthus primigenius: long bone.

Coelodonta antiquitatis: bones.

Equus ferus: bones.

Rangifer tarandus: bones.

Main references: Lubicz-Niezabitowski, 1926; Kowalski, 1959; Pawłowska, 2015a; Kaczmarek, 2004; Marciszak et al., 2019a.

Editors note:

The literature listed in the Appendix is included in the References section of the article.