

SUPPLEMENTARY MATERIAL TO:

Marciszak, A., Lipecki, G. & Wolsan, M., 2024. *Baranogale helbingi* Kormos, 1934 (Mustelidae, Carnivora) from the late Pliocene site Węże 1 (Poland). *Annales Societatis Geologorum Poloniae*, 94: 255–272.

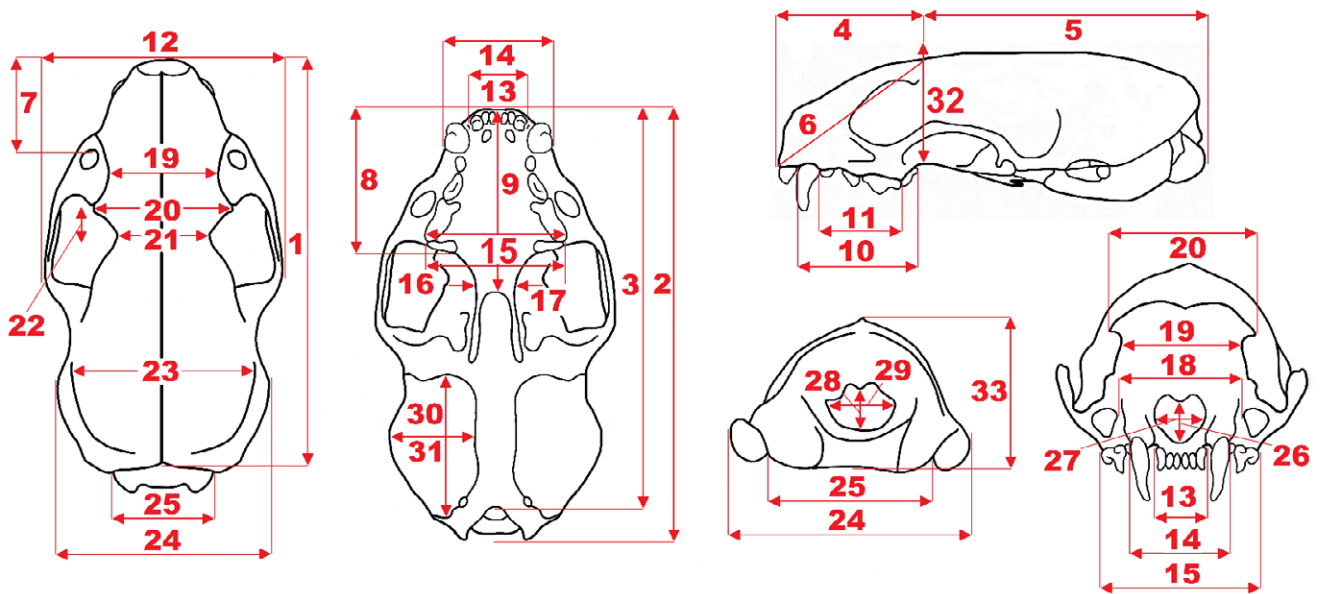


Fig. S1. Scheme of the cranium measurements.

Table S1.

The cranial measurements were made according to the following scheme (Fig. 3):

(1)	total length (prosthion-acrocranium)
(2)	condylobasal length (prosthion-occipital condyles)
(3)	basal length (prosthion-basion)
(4)	viscerocranium length (prosthion-point F)
(5)	neurocranium length (point F-acrocranium)
(6)	facial length (prosthion-point F)
(7)	rostrum length (prosthion-infraorbital)
(8)	rostrum length (mesial margin of I1 to distal margin of M1)
(9)	palatal length (prosthion-staphylion)
(10)	C1-M1 length on alveoli (mesial margin of alveolus of C1 to distal margin of alveolus of M1)
(11)	P2-P4 length on alveoli (mesial margin of alveolus of P2 to distal margin of alveolus of P4)
(12)	breadth at zygomatic arches (zygion-zygion)
(13)	incisor row breadth (I3-I3 breadth)
(14)	maximum breadth at canine alveoli (C1-C1 breadth)
(15)	maximum breadth at P4 alveoli (P4-P4 breadth)
(16)	maximum breadth at M1 alveoli (M1-M1 breadth)

(17)	least palatal breadth
(18)	least distance between infraorbital foramina
(19)	least distance between orbits (entorbital-entorbital)
(20)	frontal breadth (ectorbital-ectorbital)
(21)	postorbital least breadth (postorbital bar)
(22)	distance between ectorbital and postorbital bar
(23)	maximal neurocranium breadth (euryon-euryon)
(24)	mastoid breadth (otion-otion)
(25)	maximum breadth of occipital condyles
(26)	nasal aperture height
(27)	nasal aperture breadth
(28)	height of foramen magnum (basionopisthion)
(29)	breadth of foramen magnum
(30)	tympanic bullae length
(31)	tympanic bullae breadth
(32)	cranial height (acrocranium-basion)
(33)	maximum cranial height (staphylion-frontal)

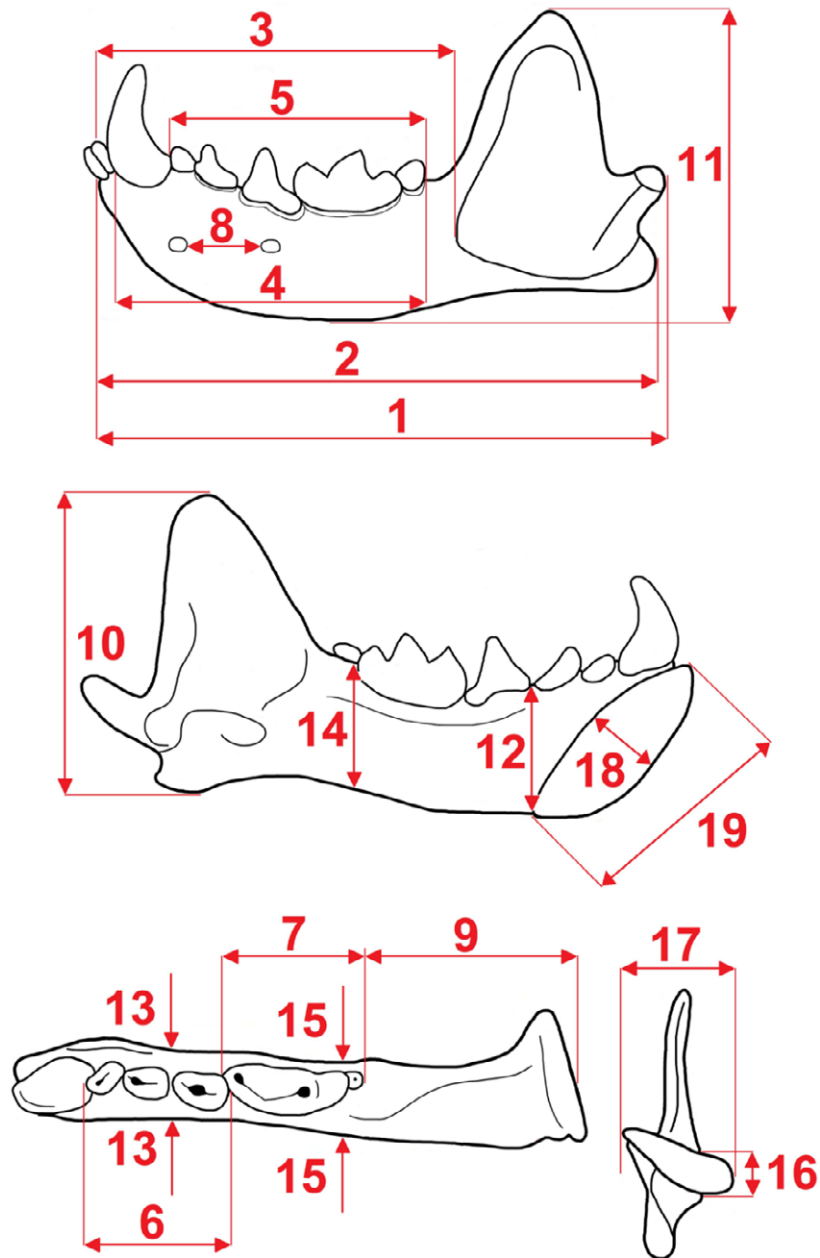


Fig. S2. Scheme of measurements of mandible.

Table S2.

The mandibular measurements were made according to the following scheme.

(1)	total length (infradentale to condyle)
(2)	length from infradentale to angular process
(3)	length infradentale to mesial margin of masseteric fossa
(4)	c1-m2 length (mesial margin of c1 to distal margin of m2)
(5)	p2-m2 length (mesial margin of p1 to distal margin of m2)
(6)	p2-p4 length (mesial margin of p2 to distal margin of p4)
(7)	m1-m2 length (mesial margin of m1 to distal margin of m2)
(8)	distance between mental foramina
(9)	length from distal margin of m2 to condyle

(10)	ramus height (from the base of angular process to the apex of coronoid process)
(11)	mandible maximum height
(12)	mandibular body height between p3 and p4
(13)	mandibular body thickness between p3 and p4
(14)	mandibular body height between m1 and m2
(15)	mandibular body thickness between m1 and m2
(16)	condyle height
(17)	condyle breadth
(18)	symphysis maximum diameter
(19)	symphysis minimum diameter

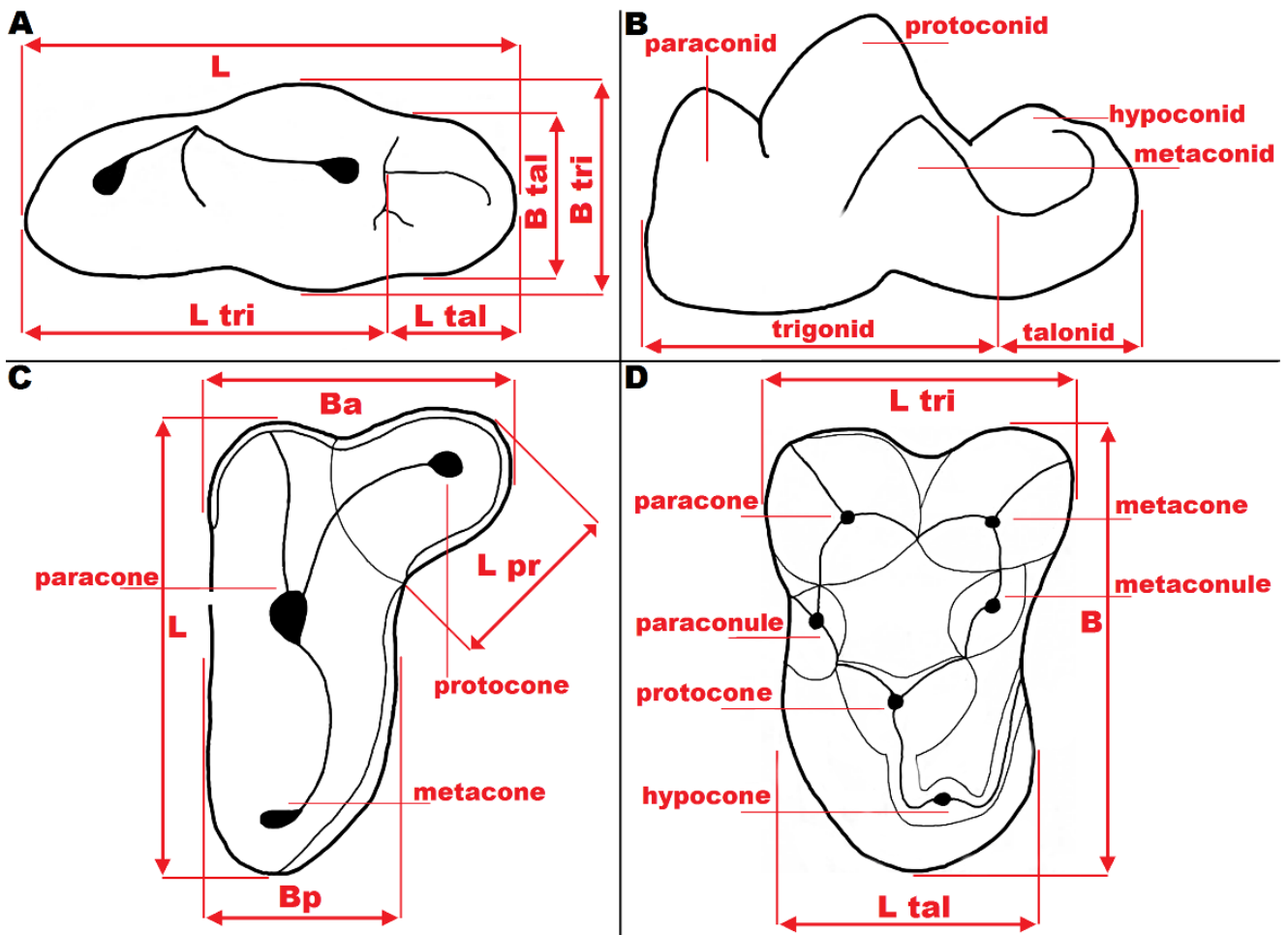


Fig. S3. The scheme of measurements and cusp terminology of mustelid teeth: ml (A-B), P4 (C) and MI (D).

Table S3.

The teeth measurements were made according to the following scheme:

(L)	total length
(L pr)	protocone length of P4
(L tri)	trigon/trigonid length
(L tal)	talon/talonid length
(B)	total breadth
(Ba)	mesial breadth
(Bp)	distal breadth
(B tri)	trigonid breadth
(B tal)	talonid breadth

Table S4.

List of taxa from Węże 1 (compiled from Samsonowicz, 1934; Stach, 1951, 1953, 1954, 1957, 1959, 1961; Młynarski, 1953, 1955, 1956a,b, 1959, 1961, 1962, 1964; Viret, 1954; Czyżewska, 1958, 1959, 1960, 1968, 1969, 1978, 1981a, b, 1982, 1985, 1989; Thenius, 1959; Kowalski, 1959a, b, 1960a, b, 1961a, b, 1962a, b, 1963, 1964, 1966, 1970, 1971, 1974a, b, 1978, 1979, 1989a–d, 1990; Schaub and Kowalski, 1959; Sulimski, 1959, 1960, 1962a, b, 1964; Sych, 1964, 1965, 1967a, b, 1980; Kurtén, 1968; Fahlbusch, 1969; Ryziewicz, 1969; Vergnaud-Grazzini and Młynarski, 1969; Anderson, 1970; Rzebik-Kowalska, 1971, 1975, 1976, 1981, 1989a, b, 1990a, b, 1991, 1994, 1998, 2005, 2009, 2014; Radulesco and Samson, 1972; Black and Kowalski, 1974; Jánossy, 1974; Głazek *et al.*, 1976; Rabeder, 1976; Skoczeń, 1976, 1980, 1993; Szyndlar, 1977, 1993, 2014, 2015a, b; Mayhew, 1978; Brandy, 1979; Hendej, 1980; Qiu and Schmidt-Kittler, 1983; Szyndlar, 1984, 1991a, b; Rümke, 1985; Wolsan, *et al.*, 1985; Žuk, 1985; Shevyreva, 1986; Wolsan, 1986, 1989a–c, 1990; Bocheński, 1989, 1991; Kubiak, 1989; Młynarski and Szyndlar, 1989; Nadachowski, 1989, 1990; Nadachowski *et al.*, 1989; Wołoszyn, 1989; Dybka, 1990; Agustí *et al.*, 2001; Lopatin *et al.*, 2003; Weers and Rook, 2003; Wagner, 2006, 2010; Fostowicz-Frelik, 2007; Mackiewicz *et al.*, 2010; Zijlstra, 2010; Wagner *et al.*, 2011; Bocheński *et al.*, 2012; Ivanoff *et al.*, 2014; Sansalone *et al.*, 2016; Stefaniak, 2015; Jiangzuo and Flynn, 2020; Marciszak and Lipecki, 2020; Stefaniak *et al.*, 2020; Czernielewski, 2021, 2022, 2023; Jiangzuo *et al.*, 2021; Marciszak, *et al.*, 2021, 2023; Sianis *et al.*, 2023).

Amphibia Linnaeus, 1758	<i>Salamandra salamandra</i> (Linnaeus, 1758)	Eulipotyphla Waddell, Okada and Hasegawa, 1999	<i>Parascalops agrarius</i> (Skoczeń, 1980)
	<i>Triturus cristatus</i> (Laurenti, 1768)		<i>Talpa minor</i> Freudenberg, 1914
	<i>Pliobatrachus</i> cf. <i>langhae</i> Fejérváry, 1917		<i>Talpa fossilis</i> Petényi, 1864
	<i>Bombina bombina</i> (Linnaeus, 1758)		<i>Desmana nehringi</i> Kormos, 1913
	<i>Eopelobates</i> sp.		<i>Galemys sulimskii</i> Rümke, 1985
	<i>Pelobates fuscus</i> (Laurenti, 1768)		<i>Paenelimnoecus pannonicus</i> Kormos, 1934
	<i>Bufo bufo</i> (Linnaeus, 1758)		<i>Beremendia fissidens</i> (Petényi, 1864)
	<i>Rana arvalis</i> Nilsson, 1842		<i>Asoriculus gibberodon</i> (Petényi, 1864)
	<i>Rana</i> cf. <i>latastei</i> Bulenger, 1879		<i>Quyania europaea</i> Rzebik-Kowalska, 2014
Reptilia Laurenti, 1768	<i>Geomyda mossoczyi</i> Młynarski, 1964		<i>Sorex minutus</i> Linnaeus, 1766
	<i>Emys orbicularis wermuthi</i> Młynarski, 1956		<i>Sorex subminutus</i> Sulimski, 1962
	<i>Testudo</i> sp. (large form)		<i>Sorex araneus</i> Linnaeus, 1758
	<i>Testudo globosa</i> Portis, 1890		<i>Sorex subaraneus</i> Heller, 1958
	<i>Ophisaurus pannonicus</i> Kormos, 1911		<i>Sorex runtonensis</i> Hinton, 1911
	<i>Anguis fragilis</i> Linnaeus, 1758		<i>Sorex praeearaneus</i> (Kormos, 1934)
	<i>Lacerta</i> sp.		<i>Sorex bor</i> Reumer, 1984
	<i>Lacerta</i> cf. <i>sicula</i> Rafinesque-Schmaltz, 1810		<i>Sorex pseudoalpinus</i> Rzebik-Kowalska, 1991
	<i>Coluber</i> cf. <i>viridiflavus</i> (Lacépède, 1789)		<i>Sorex</i> cf. <i>praealpinus</i> Heller, 1930
	<i>Natrix longivertebra</i> Szyndlar, 1984		<i>Sorex</i> sp.
	<i>Vipera ammodytes</i> (Linnaeus, 1758)		<i>Crocidura</i> cf. <i>kornfeldi</i> Kormos, 1934
Aves Linnaeus, 1758	<i>Lagopus</i> sp.		<i>Crocidura</i> sp.
	<i>Tetrao conjugens</i> Jánossy, 1974	<i>Mafia</i> cf. <i>csarnotensis</i> Reumer, 1984	
	<i>Plioperdix ponticus</i> (Tugarinov, 1940)	<i>Sulimskia kretzoi</i> (Sulimski, 1962)	
	<i>Plioperdix capeki</i> (Lambrecht, 1933)	<i>Blarinoides mariae</i> Sulimski, 1959	
Mammalia Lin- naeus, 1758 Eulipotyphla Waddell, Okada and Hasegawa, 1999	<i>Erinaceus samsonowiczi</i> Sulimski, 1959	<i>Zelceina soriculoides</i> (Sulimski, 1959)	
	<i>Condylura kowalskii</i> Skoczeń, 1976	<i>Allobrarinella europaea</i> (Reumer, 1984)	
	<i>Urotrichus</i> sp.	<i>Petenyia hungarica</i> Kormos, 1934	
	<i>Scaptonyx dolichochoir</i> (Gaillard, 1899)	<i>Deinsdorfia hibbari</i> (Sulimski, 1962)	
		<i>Deinsdorfia</i> cf. <i>kordosi</i> Reumer, 1984	
	<i>Rzebikia polonica</i> Skoczeń, 1980		
	<i>Rzebikia skoczeni</i> (Zijlstra, 2010)		
	Soricidae gen. et sp. indet.		

Chiroptera Blumenbach, 1779	<i>Plecotus rabederi</i> Wołoszyn, 1987
	<i>Myotis danutae</i> Kowalski, 1956
	<i>Myotis</i> cf. <i>exilis</i> Heller, 1936
	<i>Myotis helleri</i> Kowalski, 1962
	<i>Rhinolophus wenzensis</i> Wołoszyn, 1987
	<i>Rhinolophus</i> cf. <i>variabilis</i> Topál, 1975
	<i>Miniopterus approximatus</i> Wołoszyn, 1987
	<i>Myotis</i> sp.
	<i>Myotis gundersheimensis</i> Heller, 1936
	<i>Myotis podlesicensis</i> Kowalski, 1956
Lagomorpha Brandt, 1855	<i>Hypolagus beremendensis</i> (Petényi, 1864)
Rodentia Bowdich, 1821	<i>Blackia polonica</i> Black and Kowalski, 1974
	<i>Pliopetaurista schaubi</i> (Sulimski, 1964)
	<i>Pliopetes hungaricus</i> Kretzoi, 1959
	<i>Sciurus warthae</i> Sulimski, 1964
	<i>Tamias orlovi</i> (Sulimski, 1964)
	<i>Boreofiber wenzensis</i> (Sulimski, 1964)
	<i>Democricetodon</i> sp.
	<i>Baranomys longidens</i> (Kowalski, 1960)
	<i>Trilophomys pyrenaicus</i> (Depéret, 1890)
	<i>Prospalax priscus</i> (Nehring, 1897)
	<i>Germanomys weileri</i> Heller, 1936
	<i>Stachomys trilobodon</i> Kowalski, 1960
	<i>Ungaromys</i> sp.
	<i>Dolomys</i> cf. <i>milleri</i> Nehring, 1898
	<i>Mimomys gracilis</i> (Kretzoi, 1954)
	<i>Mimomys hassiacus</i> Heller, 1936
	<i>Mimomys</i> cf. <i>stehlini</i> Kormos, 1931
	<i>Propiomys hungaricus</i> Kormos, 1934
	<i>Micromys</i> cf. <i>praeminutus</i> Kretzoi, 1959
	Muridae gen. et sp. indet.
<i>Parapodemus schaubi</i> Papp, 1947	

Rodentia Bowdich, 182	<i>Rhagapodemus frequens</i> Kretzoi, 1959
	Gliridae gen. et sp. indet.
	<i>Glis minor</i> Kowalski, 1956
	<i>Muscardinus</i> sp.
	<i>Muscardinus pliocaenicus</i> Kowalski, 1963
	<i>Plioselenium gromovi</i> Sulimski, 1962
	<i>Sminthozapus janossyi</i> Sulimski, 1962
	<i>Hystrix primigenia</i> (Wagner, 1848)
	<i>Hystrix velunensis</i> Czernielewski, 2023
Primates Linnaeus, 1758	
Carnivora Bowdich, 1821	<i>Eucyon davisii</i> (Merriam, 1911)
	<i>Nyctereutes donnezani</i> (Depéret, 1890)
	<i>Agriotherium insigne</i> (Gervais, 1859)
	<i>Ursus minimus</i> Devèze et Bouillet, 1827
	<i>Plesiogulo</i> sp.
	<i>Arctomeles pliocaenicus</i> Stach, 1951
	<i>Martes wenzensis</i> Stach, 1959
	<i>Baranogale helbingi</i> Kormos, 1934
	<i>Mustela plioerminia</i> Stach, 1959
	<i>Mustela pliocaenica</i> Stach, 1959
	<i>Homotherium crenatidens</i> Fabrini, 1890
	<i>Lynx issiodorensis issiodorensis</i> (Croizet and Jobert, 1828)
	<i>Felis lunensis</i> Martelli, 1906
	<i>Megaviverra carpathorum</i> (Kretzoi and Fejfar, 1982)
Perissodactyla Owen, 1848	<i>Dichoplos megarhinus</i> (Christol, 1834)
<i>Hipparion</i> sp.	
Artiodactyla (Owen, 1848)	<i>Procapreolus wenzensis</i> (Czyżewska, 1960)
	<i>Praeclaphus warthae</i> (Czyżewska, 1968)
	<i>Muntiacus polonicus</i> Czyżewska, 1968
	<i>Procapreolus moldavicus</i> (Janovskaya, 1954)
	<i>Arvernoceros</i> cf. <i>ardei</i> (Vekua, 1996)

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