

AN INDEXED BIBLIOGRAPHY OF CENOZOIC VERTEBRATE TRACKS

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Abstract—A bibliography of 584 references describing Cenozoic or Holocene vertebrate tracks and trackways with a world-wide distribution is presented. We have analyzed the reports by decade; there has been a steady increase in the publication of such studies since the first verifiable report of a Cenozoic track in 1859. We show all described occurrences on two maps, one for the Paleocene to Miocene, and another for the Pliocene and Pleistocene, with map symbols for each Epoch. We provide an extensive cross-index by categories of age, geographical location and taxa. Finally, we list all described Cenozoic vertebrate ichnotaxa known to us.

INTRODUCTION

The earliest report of Cenozoic vertebrate tracks that we have been able to locate is Desnoyer's report of giant bird tracks from the Late Eocene gypsum beds in the vicinity of Paris, France (Desnoyers 1859; reference 148 herein). Since that time, Cenozoic tracks and trackways have taken a backseat to Mesozoic occurrences, with dinosaurs, other reptiles and amphibians receiving more attention than their later mammalian and avian counterparts. Nevertheless, there has been a steady increase in scientific publications dealing with Cenozoic tracks since then, with 140 publications appearing so far in the current decade (Fig. 1). The curve shows a steady increase, with just two anomalies. There is a significant increase above the curve in the decade beginning in 1880, which is based almost entirely on just two localities – the Carson City, Nevada Pleistocene track site (66, 117, 144, 185, 207, 283, 284, 285, 323) and the discovery of Holocene human footprints in Nicaragua (19, 81, 164, 165, 166, 168, 169, 170, 237, 326, 420). For the dip in the decade beginning in 1970 we have no explanation.

The number of references for each epoch increases with time (Fig. 2). There are only 8 (2%) citations for the Paleocene, 42 (8%) for the Eocene, 38 (7%) for the Oligocene, 86 (16%) for the Miocene, 89 (17%) for the Pliocene, 179 (33%) for the Pleistocene, and 99 (17%) for the Holocene, which is a much shorter interval relative to the others.

Geographically, most of the citations are for either Europe or the United States (Fig. 3). Together, those two regions account for more than half (54%) of all references.

Analyzed by class (Fig. 4), reptile or amphibian tracks are each described in less than 2% of the references, while bird tracks are de-

scribed in 24% of the references. Among the mammals, which together are mentioned in approximately 83% of the references, hominids are mentioned in 24%, artiodactyls in 24%, carnivores in 19%, perissodactyls in 11% and other groups in less than 10% each.

In terms of ichnotaxa that we have been able to find, 1.0% are Amphibia, 2.0% are Reptilia, 32.7% are Aves and 64.3% are Mammalia.

In the following bibliography we have endeavored to collect all references to Cenozoic, including Holocene, tracks and trackways. While we have made an effort to examine as many of these as possible, given that publications on Cenozoic tracks appear in a diverse array of journals and other publications, we do not claim that the following bibliography is complete. We were not able to locate copies of a number of the references, and have accepted them at face value, extracting what information we could from their titles or references to them in other publications. We attempted to collect data in three categories from each reference: age, geographic location and taxa reported. Because of the rather uneven reporting of these three factors in the various publications, we have kept the analysis rather coarse-grained. Age is given as the epoch, as this is available from nearly all references. A few have been listed as Neogene or Paleogene where finer definition was lacking. Geographic area is given as continent and country. Finally, we have listed the taxa given in each reference to the lowest taxonomic category mentioned. We have listed ichnotaxa when possible, but in some cases the tracks have been referred only to biological taxa and these have been listed when the information is available. We have provided a few references to field or identification guides to the tracks of modern vertebrates.

Following the bibliography proper, we have provided a cross index for the three major categories of age, location and taxa. After each citation we have provided a list of the key or index words pertinent to that citation. We have also provided a list of all Cenozoic ichnotaxa of

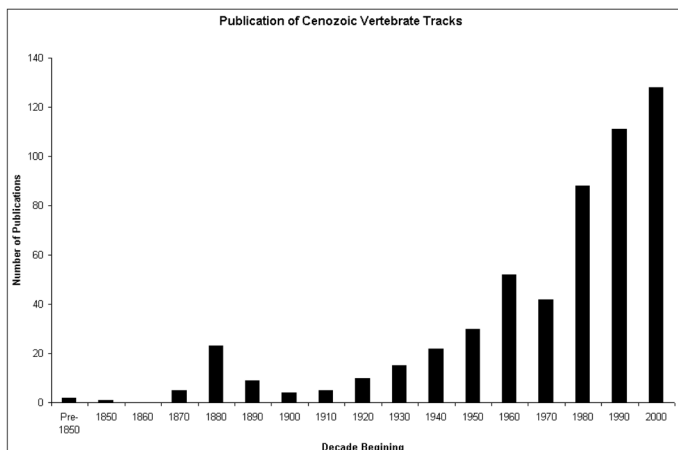


FIGURE 1. Cenozoic track and trackway references graphed by decade.

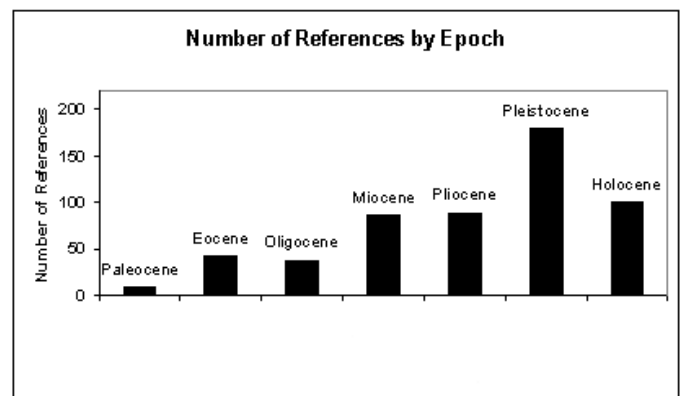


FIGURE 2. Cenozoic track and trackway references graphed by epoch.

which we are aware. It should be noted that the rigor with which accepted taxonomic principals have been followed by those describing ichnotaxa has varied considerably. We note in particular difficulties in determining the actual date of description of many taxa, particularly those described by Panin or Panin and Avram. Panin himself often cites different dates as the date of description of his own taxa. We have also noted inconsistencies in spelling for some of the ichnotaxa even by the

original author in subsequent publications. Our spellings follow that utilized in the original description of the taxon. No attempt has been made to examine possible synonymies or other changes in the taxonomy as that is beyond the scope of this paper. Our goal has been to provide as comprehensive a list as possible with a basic index in order to facilitate and encourage future work on tracks from the Cenozoic, whether it is systematic, functional, sedimentological, paleoecological or biostratigraphical.

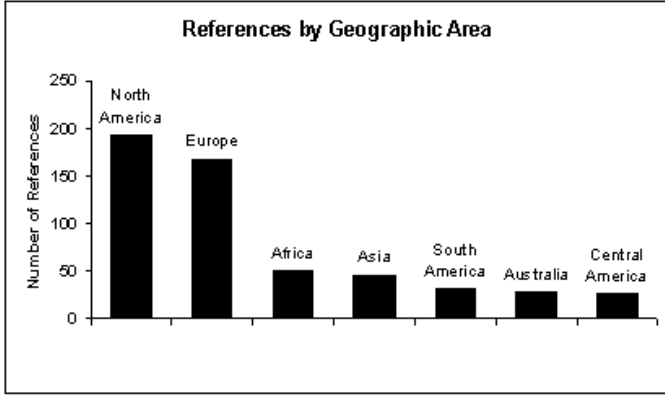


FIGURE 3. Cenozoic track and trackway references graphed by continent.

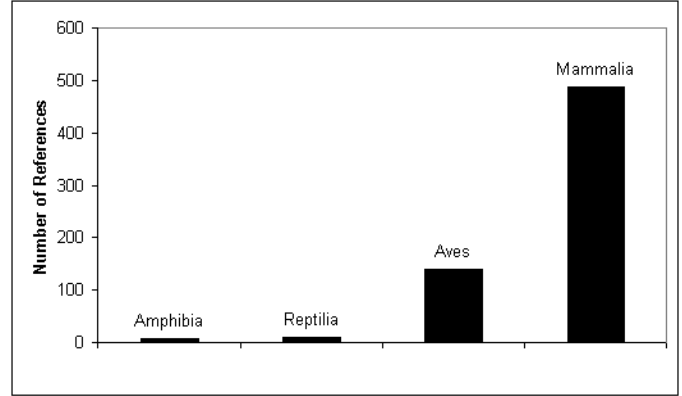


FIGURE 4. Cenozoic track and trackway references graphed by taxonomic class.



FIGURE 5. Distribution of Paleocene – Miocene tracks sites. Paleocene – open circle, Eocene – solid circle, Oligocene – open square, Miocene – open triangle.



FIGURE 6. Distribution of Pliocene-Pleistocene track sites. Pliocene – open circle, Pleistocene – solid circle. The map does not include Pliocene or Pleistocene sites that produced only hominid tracks.

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Hominidae	7, 8, 15, 19, 25, 26, 47, 51, 52, 54, 55, 56, 57, 59, 61, 64, 67, 81, 82, 88, 92, 106, 110, 111, 113, 123, 125, 126, 135, 136, 137, 138, 140, 141, 142, 164, 165, 166, 167, 168, 169, 170, 171, 179, 180, 189, 190, 191, 192, 193, 195, 203, 208, 211, 222, 223, 232, 233, 235, 237, 247, 248, 249, 250, 268, 275, 276, 277, 278, 279, 280, 281, 282, 289, 297, 302, 315, 316, 318, 319, 322, 326, 333, 335, 336, 354, 360, 372, 379, 380, 392, 394, 397, 403, 404, 405, 406, 407, 420, 421, 426, 433, 434, 435, 440, 455, 457, 459, 460, 462, 464, 469, 473, 483, 484, 506, 512, 522, 523, 524, 525, 526, 528, 529, 530, 534, 553, 554, 557, 558, 560, 561, 565, 566, 568, 569, 580, 584	
Proboscidea	6, 33, 35, 48, 66, 77, 78, 91, 97, 130, 133, 162, 184, 212, 215, 216, 218, 221, 239,	

INDEX TO CENOZOIC VERTEBRATE ICHNOTAXA

We have included in this index each combination of names used to describe ichnotaxa in the literature we have seen. We have not made an attempt to produce synonymies; thus, the canoid species *gracilis*, which has been referred by various authors to three different ichnogenera (*Canipeda*, *Bestiopedia* and *Chelipus*) is listed three separate times in the index. We have done our best to provide the author and date for the original description, and have followed the standard practice of giving the author's name and date *in parens* when the genus is different from that used by the original describer. We have not provided the name and date of the subsequent revision. We have used the age and locality information directly from the reference in which the specific combination of generic

and trivial name is used, and thus the data may vary slightly for the same taxon under different generic attributions.

We have placed these ichnotaxa in the framework of a Linnaean taxonomy at the higher levels, following the lead of several modern workers. This seems to us the best compromise between a completely biological taxonomy, impossible to obtain in the case of tracks, and a completely artificial taxonomy devoid of any biological implications. Within the Mammalia, the order of Orders follows McKenna and Bell's 1997 classification. Where family level designations are provided, as within the Carnivora, they are arranged alphabetically.

Where an entry consists only of a genus name, no trivial name was associated with the genus, at least in the reference available to us.

Amphibia

Ambystomichnus montanensis (Gilmore, 1928)
Ammobatrachus montanensis Gilmore, 1928

Paleocene, Montana
Paleocene, Montana

Testudina

Chelonipus chadronicus Sargeant and Langston, 1994
Chelonipus parvus Sargeant and Langston, 1994

Late Eocene, Texas
Late Eocene, Texas

Crocodylia

Albertasuchipes russellia McCrea, et al., 2004
Borealosuchipus hanksi Erikson, 2005

Late Paleocene, Alberta
Paleocene, North Dakota

Aves

Alaripeda lofgreni Sarjeant and Reynolds, 2001
Anatipeda alfi Sarjeant and Reynolds, 2001
Anatipeda anas Panin and Avram, 1962
Anatipeda californica Sarjeant and Reynolds, 2001
Antarctichnus fuenzalidae Covacevich and Lamperein, 1970
Ardeipeda egretta Panin and Avram, 1962
Ardeipeda gigantea Panin and Avram, 1962
Ardeipeda incerta Panin and Avram, 1962
Aviadactyla media Kordos, 1985
Aviadactyla panini (Kordos and Prakfalvi, 1990)
Aviadactyla vialovi (Kordos and Prakfalvi, 1990)
Avipeda adunca Sargeant and Langston, 1994
Avipeda filiportatis Vialov, 1965
Avipeda gryponyx Sarjeant and Reynolds, 2001
Avipeda (Tridactypeda) gaurlenis Vialov, 1983
Avipeda ipolyensis (Kordos, 1983)
Avipeda (Tridactypeda) istchenkoi Vialov, 1983
Avipeda phoenix Vialov, 1965
Avipeda sirin Vialov, 1965
Avipeda thrinax Sarjeant and Reynolds, 2001
Carpathipeda panini Kordos and Prakfalvi, 1990
Carpathipeda vialovi Kordos and Prakfalvi, 1990
Charadriipeda becassi Panin and Avram, 1962
Charadriipeda disjuncta Panin and Avram, 1962
Charadriipeda limosa Radan and Brustur, 1993
Charadriipeda minima Panin and Avram, 1962
Charadriipeda minor Panin, 1965
Charadriipeda recurvirostra Panin, 1965
Charadriipeda recurvirostrioides Panin and Avram, 1962
Culcitapeda ascia Sarjeant and Reynolds, 2001
Culcitapeda eccentrica Sarjeant and Reynolds, 2001
Culcitapeda tridens Sarjeant and Reynolds, 2001
Fuscinapeda meunieri Sargeant and Langston, 1994
Fuscinapeda sirin (Vialov, 1965)
Fuscinapeda texana Sargeant and Langston, 1994
Gruipeda abeli (Lambrecht, 1938)

Miocene, California
Miocene, California
Early Miocene, Romania
Miocene, California
Late Miocene, Antarctica
Early Miocene, Romania
Early Miocene, Romania
Early Miocene, Romania
Early Miocene, Hungary
Neogene, Europe
Neogene, Europe
Late Eocene, Texas
Early Miocene, Ukraine, Romania
Miocene, California
Pliocene, Turkmenia
Early Miocene, Hungary
Pliocene, Turkmenia
Early Miocene, Ukraine
Early Miocene, Ukraine
Miocene California
Neogene, Europe
Neogene, Europe
Early Miocene, Romania
Early Miocene, Romania
Late Oligocene, Romania
Early Miocene, Romania
Early Miocene, Romania
Early Miocene, Romania
Early Miocene, Romania
Early Miocene, Romania
Miocene, California
Miocene, California
Miocene, California
Late Eocene, Texas
Miocene, Ukraine
Late Eocene, Texas
Pliocene, Iran

<i>Gruipeda becassi</i> (Panin and Avram, 1962)	Miocene, Romania
<i>Gruipeda calcarifera</i> Sargeant and Langston, 1994	Late Eocene, Texas
<i>Gruipeda diabloensis</i> Remeika, 1999	Blancan, California
<i>Gruipeda disjuncta</i> (Panin and Avram, 1962)	Miocene, Romania
<i>Gruipeda filiportatis</i> (Vialov, 1965)	Miocene, Hungary
<i>Gruipeda intermedia</i> Panin, 1965	Early Miocene, Romania
<i>Gruipeda lambrechtii</i> Ataabadi and Khazae, 2004	Middle Eocene, Iran
<i>Gruipeda maxima</i> Panin and Avram, 1962	Early Miocene, Romania
<i>Gruipeda minima</i> (Panin and Avram, 1962)	Miocene, Romania
<i>Gruipeda minor</i> (Panin, 1965)	Miocene, Romania
<i>Iranipeda abeli</i> (Lambrecht, 1928)	Miocene, Iran
<i>Iranipeda millumi</i> Doyle et al., 2004	Late Miocene, Spain
<i>Leptotilostipus pyrenaeicus</i> Payros et al., 2000	Late Eocene, Spain
<i>Ludicharadripodiscus edax</i> Ellenberger, 1980	Upper Eocene, France
<i>Ornithoformipes controversus</i> Patterson and Lockley, 2004	Eocene, Washington
<i>Ornithoidichnites badensis</i> Boehm, 1896 ²	Oligocene, Germany
<i>Ornithotarnocia lambrechtii</i> Kordos, 1985	Early Miocene, Hungary
<i>Ornithichnites argenterae</i> Portis, 1879	Upper Eocene, Italy
<i>Ornithichnites taurinus</i> Portis, 1888	Upper Eocene, Italy
<i>Phoenicopterichnus rector</i> Aramayo and Manera de Bianco, 1987	Pleistocene, Argentina
<i>Passeripeda ipolyensis</i> Kordos, 1983	Early Miocene, Hungary
<i>Presbyorniformipes feducci</i> Lockley and Hunt, 1995	Eocene, Utah
<i>Pulchravipes magnificus</i> Demathieu et al., 1984	Early Oligocene, France
<i>Roepichnus grahami</i> Doyle et al., 2004	Late Miocene, Spain
<i>Tetraornithopeda tasnadii</i> Kordos, 1983	Early Miocene, Hungary
<i>Urmioris abeli</i> Lambrecht, 1938 ¹	Pliocene, Iran
<i>Venatoripes riojanus</i> Frenguelli, 1950	Miocene, Argentina

Mammalia

“Micromammal” incertae sedis

<i>Ucetipodiscus inanis</i> Ellenberger, 1980	Upper Eocene, France
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Xenarthra

<i>Acugnaichnus dorregoensis</i> Casamiquela, 1983	Pleistocene, Argentina
<i>Iribarbichnum megamericanum</i> Casamiquela, 1983	Pleistocene, Argentina
<i>Neomegatherichnium pehuencoensis</i> Aramayo and Manera de Bianco, 1987	Pleistocene, Argentina
<i>Mylodontidichnum rosalensis</i> Aramayo and Manera de Bianco, 1987	Pleistocene, Argentina
<i>Megatherichnum oportoi</i> Casamiquela, 1974	Pleistocene, Argentina
<i>Venatoripes riojanus</i> Frenguelli, 1950	Mio-Pliocene, Argentina

Rodentia

<i>Ptyariopus aichmanteicheirus</i> Sargeant and Langston, 1994	Late Eocene, Texas
<i>Tricornynopus elaphrus</i> Sargeant and Langston, 1994	Late Eocene, Texas

Creodonta

<i>Creodontipus almenarensis</i> Santamaria et al., 1989	Oligocene, Spain
<i>Creodontipus mongayensis</i> Santamaria et al., 1989	Oligocene, Spain
<i>Dischidodacylus stevensi</i> Sarjeant and Wilson, 1988	Late Eocene, Texas
<i>Hyaenodontipus praedator</i> Ellenberger, 1980	Upper Eocene, France
<i>Quiritipes impendens</i> Sarjeant et al., 2002	Eocene, Wyoming
<i>Sarcotherichnus enigmaticus</i> Demathieu et al., 1984	Oligocene, France
<i>Sarjeantipes whitea</i> McCrea et al., 2004	Upper Paleocene, Alberta
<i>Zanclonychopus cinicalcator</i> Sarjeant and Langston, 1994	Late Eocene, Texas

Carnivora

<i>Bestiopeda bockhi</i> Vialov, 1985	Lower Miocene, Hungary
<i>Bestiopeda guoides</i> Thenius, 1967	Pliocene Hungary
<i>Bestiopeda hungarica</i> Vialov, 1985	Lower Miocene, Hungary
<i>Bestiopeda tarnocensis</i> Vialov, 1985	Lower Miocene, Hungary
<i>Bestiopeda turkomanica</i> Vialov, 1983	Pliocene, Turkmenia
<i>Carnivoripeda nogradensis</i> Kordos, 1987	Miocene, Hungary

Amphicyonidae

- Axiciapes ferox* Sargeant and Langston, 1994 Late Eocene, Texas
Axiciapes curvidigitatus Sargeant and Langston, 1994 Late Eocene, Texas
Hirpexipes alfi Sarjeant et al., 2002 Miocene, California

Canidae

- Bestiopedina amphicyonoides* Thenius, 1967 Pliocene, Austria
Bestiopedina gracilis Vialov, 1965 Miocene, Ukraine
Canipeda amphicyonoides (Thenius, 1967) Pliocene, Austria
Canipeda gracilis (Vialov, 1966) Miocene, Ukraine
Canipeda longigriffa Panin and Avram, 1962 Miocene, Romania
Canipeda therates (Remeika, 1999) Early Pleistocene, California
Chelipus gracilis (Vialov, 1965) Miocene, Ukraine
Chelipus therates Remeika, 1999 Pliocene, California
Pehuencoichnum gracilis (Vialov, 1965) Pleistocene, Argentina

Felidae

- Bestiopedina bestia* Vialov, 1965 Miocene, Ukraine
Bestiopedina biancoi (Aramayo and Manera de Bianco, 1987) Pleistocene, Argentina
Bestiopedina maxima Kordos, 1985 Miocene, Hungary
Bestiopedina sanguinolenta Vialov, 1966 Miocene, Ukraine
Felipeda bestia (Vialov, 1966) Miocene, Ukraine
Felipeda biancoi (Aramayo and Bianco, 1987) Pleistocene, Argentina
Felipeda bottjeri Sarjeant et al., 2002 Miocene, California
Felipeda felis Panin, 1965 Miocene, Romania
Felipeda lynxi Panin and Avram, 1962 Miocene, Romania
Felipeda maxima (Kordos, 1985) Miocene, Hungary
Felipeda milleri (Remeika, 1999) Pleistocene, California
Felipeda parvula Anton et al., 2004 Miocene, Spain
Felipeda sanguinolenta (Vialov, 1966) Miocene, Ukraine
Felipeda scrivneri Sarjeant et al., 2002 Miocene, California
Pumaeichnum biancoi Aramayo and Manera de Bianco, 1987 Pleistocene, Argentina
Pumaeichnum milleri Remeika, 2001 Pliocene, California
Pumaeichnum stouti Remeika, 1999 Pliocene, California
Pycnodactylopus achrus Sarjeant et al., 2002 Miocene, California
Tetrastoibopus phoros Sargeant and Langston, 1994 Late Eocene, Texas

Miacidae

- Falcatipes floriformis* Sargeant and Langston, 1994 Late Eocene, Texas

Mustelidae

- Mustelidichnum enigmaticum* Aramayo and Bianco, 1987 Pleistocene, Argentina
Mustelidichnum vallecitoensis Remeika, 2001 Pliocene, California
Mustelipeda punctata Kordos, 1985 Miocene, Hungary
Phacelpus therates Sargeant and Langston, 1994 Late Eocene, Texas

Ursidae

- Platykopus ilyalcator* Sarjeant et al., 2002 Miocene, Nevada

Insectivora

- Schyromorphipus oxypages* Sargeant and Langston, 1994 Late Eocene, Texas

Mesonychia

- Corymbipes superstes* Sargeant and Langston, 1994 Late Eocene, Texas

Artiodactyla

- Anoplotheriipus compactus* Ellenberger, 1980 Upper Eocene, France
Anoplotheriipus lavocati Ellenberger, 1980 Upper Eocene, France
Anoplotheriipus similicommunis Ellenberger, 1980 Upper Eocene, France
Anoplotheriipus viai (Casanovas-Cladellas and Santafe-Llopis, 1982) Oligocene, Spain
Anoplotheriipus zeuctus Sargeant and Langston, 1994 Late Eocene, Texas
Bifidipes aeolis Fornos et al., 2002 Pleistocene, Mallorca
Bifidipes velox Demathieu et al., 1984 Oligocene, France
Bijugopeda simplex Sarjeant and Reynolds, 1999 Miocene, California

<i>Bothriodontipus rovirai</i> Santamaria et al., 1990	Oligocene, Spain
<i>Bovipedidae</i> Vialov	
<i>Camelipeda turkomenica</i> Vialov, 1984	Miocene, Turkmenistan
<i>Camelopichnum</i> sp. Remeika, 2001	Pliocene, California
<i>Cervipeda dicrocerooides</i> (Vialov, 1965)	Miocene, Ukraine
<i>Diplartioptus longipes</i> Ellenberger, 1980	Upper Eocene, France
<i>Dizygopodium dorydium</i> Sarjeant and Reynolds, 1999	Miocene, California
<i>Dizygopodium elachistum</i> Sarjeant and Reynolds, 1999	Miocene, California
<i>Dizygopodium quadracordatum</i> Sarjeant and Reynolds, 1999	Miocene, California
<i>Entelodontipus viai</i> Casanovas-Cladellas and Santafe-Llopolis, 1982	Oligocene, Spain
<i>Gambapes hastatus</i> Sarjeant and Langston, 1994	Late Eocene, Texas
<i>Gambapes satyri</i> (Vialov, 1965)	Miocene, Ukraine
<i>Lamaichnum alfi</i> Sarjeant and Reynolds, 1999:	Miocene, California
<i>Lamaichnum borregoensis</i> Remeika, 1999	Pliocene, California
<i>Lamaichnum etoromorphum</i> Sarjeant and Reynolds, 1999	Miocene, California
<i>Lamaichnum guanicoe</i> Aramayo and Manera de Bianco, 1987	Pleistocene, Argentina
<i>Lamaichnum marcopodum</i> Sarjeant and Reynolds, 1999	Miocene, California
<i>Lamaichnum obliquiclavum</i> Sarjeant and Reynolds, 1999	Miocene, Nevada
<i>Megalamaichnum albus</i> Remeika, 2001	Pliocene, California
<i>Megalamaichnum tulipensis</i> Aramayo and Manera de Bianco, 1987	Pleistocene, Argentina
<i>Megapecoripeda miocaenica</i> Kordos, 1985	Miocene, Hungary
<i>Odocoileinichnum commune</i> Aramayo and Manera de Bianco, 1987	Pleistocene, Argentina
<i>Pecoripeda abeli</i> Vialov, 1986	Lower Miocene, Hungary
<i>Pecoripeda amalphaea</i> Vialov, 1965	Miocene, Ukraine
<i>Pecoripeda dicrocervoides</i> Vialov, 1965	Miocene, Ukraine
<i>Pecoripeda djali</i> Vialov, 1965	Miocene, Ukraine
<i>Pecoripeda gazella</i> Vialov, 1965	Miocene, Ukraine
<i>Pecoripeda hamori</i> Vialov, 1986	Lower Miocene, Hungary
<i>Pecoripeda satyri</i> Vialov, 1965	Miocene, Ukraine
<i>Pecoripeda tasnadi</i> Vialov, 1986	Lower Miocene, Hungary
<i>Tayassuichnum</i> Remeika, 2001	Pliocene, California

Machrauchenidae

<i>Eumacrauchenichnus patachonicus</i> Aramayo and Manera de Bianco, 1987	Pleistocene, Argentina
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Perissodactyla

<i>Ancylotheriops tanzaniae</i> Guerin, 1987	Pliocene, Tanzania
<i>Apoxyopus tessellates</i> Sargeant and Langston, 1994	Late Eocene, Texas
<i>Dicerotiniichnus laetoliensis</i> Guerin and Demathieu, 1993	Pliocene, Tanzania
<i>Dicerotiniichnus serengetiensis</i> Guerin and Demathieu, 1993	Pliocene, Tanzania
<i>Hippipeda absidata</i> Sarjeant and Reynolds, 1999	Miocene, California
<i>Hippipeda araiochelata</i> Sarjeant and Reynolds, 1999	Miocene, California
<i>Hippipeda aurelianus</i> Vialov, 1966	Neogene, Ukraine
<i>Hippipeda downsi</i> Remeika, 1999	Pliocene, California
<i>Hippipeda gyripeza</i> Sarjeant and Reynolds, 1999	Miocene, California
<i>Hippipeda parva</i> Kulchitskij, 1980	Miocene, Europe
<i>Hippipeda</i> sp. A Scrivner, 1984	Miocene, California
<i>Hippipeda</i> sp. B Scrivner, 1984	Miocene, California
<i>Hippipeda</i> sp. C Scrivner, 1984	Miocene, California
<i>Lophiopus latus</i> Ellenberger, 1980	Upper Eocene, France
<i>Lophiopus rapidus</i> Ellenberger, 1980	Upper Eocene, France
<i>Paleotheriops</i> Ellenberger, 1980	Late Eocene, France
<i>Palaeotheriopus sarjeanti</i> Ataabadi and Khazae, 2004	Middle Eocene, Iran
<i>Palaeotheriopus similimedius</i> Ellenberger, 1980	Eocene, France
<i>Plagiolophustipes montfalcoensis</i> Santamaria et al., 1989	Oligocene, Spain
<i>Rhinoceripeda tasnadyi</i> Kordos, 1987	Miocene, Hungary
<i>Ronzotherichnus voconcense</i> Demathieu et al., 1984	Oligocene, France
<i>Thrinaxopus hoplephoreus</i> Sargeant and Langston, 1994	Late Eocene, Texas

Perissodactyla or Creodonta incertae sedis

<i>Palimmecopus praecursor</i> Sargeant and Langston, 1994	Late Eocene, Texas
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Proboscidea

<i>Mammuthichnum</i> Remeika, 2001	Pliocene, California
<i>Mastodontipeda</i> Vialov 1984	Lower Miocene, Hungary

Proboscipeda Perez Llorente et al., 1999

Stegomastodonichnum australis Aramayo and Manera de Bianco, 1987

Stegomastodonichnum garbanii Remeika, 2001

Upper Miocene, Spain

Pleistocene, Argentina

Pliocene, California

¹*Urmiornis* was described by Mecquenem in 1925 for certain body fossils from the lower Pliocene of the Ukraine. *Urmiornis abeli* was described by Lambrecht in 1938 for a footprint from the late Miocene of the Hamrin Mountains in Iran, but was placed in the Linnaean taxon *Urmiornis*. Vialov later created the ichnogenus *Iranipeda* to receive *U. abeli*.

² *Ornithoidichnites badensis* Boehm 1896 is a tapir, not a bird.