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Faunal Lists of the Tertiary Formations of Sioux County, Nebraska

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NEBRASKA GEOLOGICAL SURVEY

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FAUNAL LISTS OF THE TERTIARY FORMATIONS OF
SIOUX COUNTY, NEBRASKA.

BY HAROLD JAMES COOK.

INTRODUCTION.

The object of the faunal lists of the fossil Tertiary mammals here given is to bring up to date a classified list of the genera and species, found in the various Tertiary formations of Sioux County, Nebraska. The region in and about Sioux County is one which abounds in fossil remains of prehistoric animals, and has long been a great collecting ground. But many recent discoveries have added largely to the known faunae from this vicinity, and while any such list must necessarily be provisional and incomplete, it is hoped that these lists may prove a useful reference to students of fossil mammals, and to those interested in knowing something of the range of life forms which existed in this region during ages long past.

The writer is greatly indebted to the work of Dr. W. D. Matthew, in his "Faunal Lists of the Tertiary Mammalia of the West." (Bull. 361, U. S. G. S.) in compiling this work, especially for the Oligocene lists, which are virtually as he gives them.

While all the forms here listed may not have been actually found in Sioux County, all have been found in or adjoining this county, and all are from formations which occur in Sioux County. Owing to the inaccurate data kept by early collectors as to precise localities and levels of the occurrence of any fossil, it is very difficult to place many species accurately, in these respects.

Other formations than those herein listed occur in Sioux County, but present knowledge of their faunae is meagre and scarcely worth recording.

FAUNAL LISTS OF THE TERTIARY FORMATION

LOWER OLIGOCENE**Chadron (White River Group)**

TITANOTHERIUM ZONE

CARNIVORA (CREODONTA)

Hyaenodontidae

Hyaenodon sp.

CARNIVORA (FISSIPEDIA)

Canidae.

Daphoenus dodgei, Scott.

" sp.

Cynodictis sp.*Cynodon* sp.

Felidae.

Dinictis fortis, Adams.

" sp.

PERISSODACTYLA

Hyracodontidae

Hyracodon sp.

Aminodontidae

Metamymodon sp.

Rhinocerotidae

Trigonias osborni, Lucas

" sp.

Leptaceratherium trigonogum, Osborn and Wortman*Caenopus* (*Subhyracodon*) sp. div." *cf. platycephalus*, Osborn and Wortman" *miti*, Cope

Lophiodontidae

Colodon (*Mesatapirus*) *occidentalis*, Leidy

Equidae

Mesohippus proteulophus, Osborn" *hypostylus*" *celer*, Marsh

Titanotheridae (Brontotheridae)

Titanotherium prouti, Leidy" *helocerus*, Cope" *ingens*, Marsh*Megacerops dispar*, Marsh" *tichoceras*, Scott and Osborn" *robustus*, Marsh" *brachycephalus*, Osborn" *bicornutus*, Osborn" *marshi*, Osborn*Allops scrotinus*, Marsh" *crassicornis*, "" *amplus*, "*Symbordon montanus*, Marsh

- Brontotherium ramosum*, Osborn
 " *gigas*, Marsh
 " *curtum*, "
 " *dolichoceras*, Scott and Osborn
 " *platycerus*, " " "
 " *leidy*, Osborn
 ARTIODACTYLA
 Entelodontidae
Entelodon crassum, Marsh
 " sp. div.
 Tagassuidae
Perchoerus sp.
 Leptochoeridae
Stibarus montanus, Matthew
 Anthracotheridae
Ancodon americanus, Leidy
 ?*Anthracotherium* sp.
 Agriochoeridae (Oreodontidae)
Merycoidodon (Oreodon) hybridus, Leidy
 " *affinis*, Leidy
Agriochoerus, sp.
 Hypertragulidae
Leptomeryx sp. div.
Heteromeryx dispar, Matthew

MIDDLE OLIGOCENE

Brule (Lower part) (White River Group)

OREODON ZONE.

MARSUPIALIA

- Peratherium fugax*, Cope
 CARNIVORA (CREODONTA)
 Hyaenodontidae
Hyaenodon horridus, Leidy
 " *cruentus*, "
 " *crucians*, "
 " *paucidens*, Osborn and Wortman
 " *leptocephalus*, Scott and Osborn
 " *mustelinus*, Scott
 CARNIVORA (FISSIPEDIA)
 Canidae

<i>Daphoenus vitus</i> , Leidy	
“ <i>hartshornianus</i> , Cope	
“ <i>felinus</i> , Scott	
“ <i>nebrascensis</i> , Hatcher	
“ <i>inflatus</i> , Hatcher	
<i>Cynodictis gregarius</i> , Cope	
<i>Cynodictis lippincottianus</i> , Cope	Mustelidae
? <i>Oligobunis</i> sp.	Felidae
<i>Dinictis felina</i> , Leidy	
“ <i>squalidens</i> , Cope	
“ <i>paucidens</i> , Riggs	
<i>Hoplophoneus primaevus</i> , Leidy	
“ <i>occidentalis</i> , “	
“ <i>oreodontis</i> , Cope	
“ sp. (Transitional to <i>Eusmilus</i>)	
	INSECTIVORA
	Erinaceidae
<i>Proterix loomisi</i> , Matthew	Leptictidae
<i>Leptictis haydeni</i> , Leidy	
<i>Ictops dakotensis</i> , Leidy	
“ <i>bullatus</i> , Matthew	
“ <i>porcinus</i> , Leidy	Soricidae
<i>Protosorex crassus</i> , Scott	
	RODENTIA
	Castoridae
<i>Eutypomys thomsoni</i> , Matthew	Ischyromyidae
<i>Ischyromys typus</i> , Leidy	Muridae
<i>Eumys elegans</i> , Leidy	Leporidae
<i>Palaeolagus haydeni</i> , Leidy	
“ <i>turgidus</i> , Cope	
	PERISSODACTYLA
	Hyracodontidae
<i>Hyracodon nebrascensis</i> , Leidy	
“ <i>major</i> , Scott and Osborn	Amynodontidae

- Metamynodon planifrons*, Scott and Osborn
Rhinocerotidae
- Caenopus occidentalis*, Leidy
" *copei*, Osborn
" *simplicidens*, Cope
- Leptaceratherium trigonodum*, Osborn and Wortman
" *Hyracodon*" *planiceps*, Scott and Osborn
Lophiodontidae
- Colodon procuspidatus*, Osborn and Wortman
" *dakotensis*, " " "
" *longipes*, " " "
- Tapiridae
- Protapirus simplex*, Wortman and Earle
Equidae
- Mesohippus bairdii*, Leidy
" *obliquidens*, Osborn
- ARTIODACTYLA
Entelodontidae
- Entelodon mortoni*, Leidy
" *ingens*, Leidy
" *crassus*, Marsh
- Tagassuidae
- Perchoerus probus*, Leidy
" *nanus*, Marsh
- Anthracotheridae
- Anthracotherium curtum*, Marsh
Ancodon rostratus, Scott
- Leptochoeridae
- Leptochoerus spectabilis*, Leidy
" *gracilis*, Marsh
- Stibarus quadricuspis*, Hatcher
- Agriochoeridae
- Agriochoerus antiquus*, Leidy
" *latifrons*, "
- Merycoidodon culbertsoni*, "
" *gracilis* "
" *cf. bullatus*, "
- Leptauchenia* sp.
- Hypertragulidae
- Hypertragulus calcaratus*, Cope
" sp. div.

- Leptomeryx* sp. div.
Hypisodus minimus, Cope
 Camelidae
Poebrotherium wilsoni, Leidy
 " *labiatum*, Cope
 " *eximium*, Hay
Paratylopus primaevus, Matthew

UPPER OLIGOCENE

Brule (Upper part) (White River Group)
 PROTOCERAS AND LEPTAUCHENIA ZONES.

CARNIVORA (FISSIPEDIA)

- Canidae
Cynodictis temnodon, Wortman and Matthew
 Felidae
Dinictis bombifrons, Adams
Hoplophoneus insolens, "
Eusmilus dakotensis, Hatcher

RODENTIA

- Castoridae
Steneofiber nebrascensis, Leidy
 PERISSODACTYLA
 Hyracodontidae
Hyracodon sp. div.
 Rhinocerotidae
Caenopus tridactylus, Osborn
 " *platycephalus*, Osborn and Wortman
 Tapiridae
Protapirus obliquidens, Wortman and Earl
 " *validus*, Hatcher
 Equidae.
Meshippus intermedius, Osborn and Wortman
 " *meteuolphus*, Osborn
 " *brachystylus*, Osborn
Miohippus validus, Osborn
 " *gidleyi*, "
 " *crassicuspis*, Osborn

ARTIODACTYLA

Entelodontidae

- Entelodon cf. ingens*, Leidy
 " *?crassus*, Marsh
 " *bothrodon*, "
 " sp.
- Tagassuidae
- Perchoerus robustus*, Marsh
 " *platyops*, Cope
- Leptochoeridae
- Leptochoerus*, sp.
- Anthracotheridae
- Anthracotherium kareense*, Osborn and Wortman
Ancodon brachyrhynchus, " " "
- Agriochoeridae
- Agriochoerus major*, Leidy
 " *gaudryi*, Osborn and Wortman
 " *migrans*, Marsh
- Eporeodon (?Eucrotophus) major*, Leidy
Eucrotophus jacksoni, Leidy
Leptauchenia sp.
- Hypertragulidae
- Leptomeryx*, sp. div.
Protoceras celer, Marsh
 " *comptus*, Marsh
 " *nastus*, "
Calops cristatus, Marsh
 " *consors*, "
- Camelidae
- Pseudolobis dakotensis*, Matthew

BASAL MIOCENE**Monroe Creek Beds**

CARNIVORA

Canidae

- Nothocyon gregorii*, Matthew
 " *cf. lemur*, Cope
Mesocyon, sp.

RODENTIA

Castoridae

- Euhapsis platyceps*, Peterson

PERISSODACTYLA

Rhinocerotidae

Diceratherium sp.

Equidae

? *Parahippus* sp.

ARTIODACTYLA

Agriochoeridae

Mesorcodon megalodon, Peterson*Promerycochoerus carrikeri*, Peterson*Phenacocoelus typus*, Peterson*Leptauchenia*, sp.**LOWER MIOCENE****Lower Harrison**

CARNIVORA

SYNDYOCERAS ZONE

Canidae

Daphoenodon supurbus, Peterson" *periculosus*, Cook*Nothocyon annectens*, Peterson

" sp.

Temnocyon venator, Cook" *percussor*, "

Mustelidae

Paroligobunis simplicidens, Peterson*Oligobunis cf. lepidus*, Matthew

RODENTIA

Castoridae

Steneofiber fossor, Peterson" *barbouri*, "

" sp.

Geomyidae

Entoptychus sp.

Leporidae

Lepus sp.

PERISSODACTYLA

Rhinocerotidae

Diceratherium cooki, Peterson" *niobrarense*, Peterson" *arikarense*, Barbour¹" *petersoni*, Loomis" *schiffi* "

- " *aberrans*,²
 " *loomisi*, Cook
Metacaenopus egregius, Cook
 ? " *stigeri*, Loomis
 Chalicotheridae
Moropus ?elatus, Marsh
 " *cooki*, Barbour
 " *petersoni*, Holland³
 " *parvus*, Barbour
 Equidae
Parahippus, aff. *crenidens*, Scott
 " sp.
 " sp.

FOOT NOTE.

1. It is not entirely clear that this is a valid species, and distinct from *D. cooki*, Peterson. Careful comparative studies are necessary to clear this up.

2. Additional material is necessary to demonstrate the validity of this species.

3. The relationship of *M. petersoni* and *M. parvus* is not clear. They are probably the same species, in which case *petersoni* would have priority. Here again we must wait further evidence. There is either great variation in a few species, or else there are several species of *Moropus* in the Lower Harrison.

ARTIODACTYLA

Entelodontidae

- Dinohyus hollandi*, Peterson
Entelodon, sp.

Tagassuidae

- Desmathyus siouxensis*, Peterson

AGRIOCHOERIDAE

- Promerycochoerus vantasselensis*, Peterson
 ? *Merychys harrisonensis*
 ? " cf. *elegans*, Leidy
 ? " sp.
 ? *Mesoreodon* sp.

Camelidae

- Stenomylus gracilis*, Peterson
 " *hitchcocki*, Loomis
 " *crassipes*, "
Oxydactylus campestris, Cook
 " sp.

Hypertragulidae

- Syndyoceras cooki*, Barbour

LOWER MIOCENE (Late Phase)

Upper Harrison

MERY COCHOERUS ZONE

CARNIVORA

Canidae

Nothocyon sp.*Cynodesmus thomsoni*, Matthew*Borocyon robustum*, Peterson

Mustelidae

Aelurocyon brevifaces, Peterson

RODENTIA

Aplodontiidae

Meniscomys sp.

Mylagaulidae

Mylagaulid, gen. indet.

PERISSODACTYLA

Rhinocerotidae

Diceratherium sp.*Epaiiphelops virgasectus*, Cook

Chalicotheridae

Moropus ?elatus, Marsh¹

FOOT NOTE.

1. Recent discoveries by the writer would seem to indicate that the original Marsh type of *Moropus elatus* is from the Upper Harrison.

Parahippus nebrascensis, Peterson" " *tyleri*, Loomis

? " " sp.

PROBOSCIDEA

?Gomphotherium conodon, Cook

ARTIODACTYLA

Entelodontidae

Dinohyus, sp

Tagassuidae

Desmathyus sp." cf. *subaequans**Pediohyus ferus*, Loomis

Agriochœeridae

Merycochoerus, sp*Merychyus minimus*, Peterson

" sp.

Camelidae

- Oxydactylus longipes*, Peterson
 " *brachyodontus*, Peterson
 " *longirostris*, Peterson
 " *lulli*, Loomis
 " *gibbi*, Loomis
Stenomylus, sp
Protomeryx leonardi, Loomis
 " *?cedrensis*, Matthew
 Merycodontinae
Blastomeryx olcottii, Matthew
 " sp.

MIDDLE MIOCENE**Sheep Creek Beds**

CARNIVORA
 Canidae

- Amphicyon*
Cynodesmus sp. indesc.

PERISSODACTYLA

- ?*Aphelops* sp.

Equidae

- Merychippus* cf. *severus*, Cope
 " cf. *paniensis*, Cope
 " cf. *isonesus*, Cope
 " cf. *sejunctus*, Cope
 " sp. indesc.

ARTIODACTYLA
 Camelidae

- Protolabis angustidens*, Cope
Procamelus cf. *fissidens*, Cope
Alticamelus leptocolon, Matthew
 Cervidae (Palaeomerycinae)
Palaeomeryx sp.
Blastomeryx ? gemmifer, Cope.

LOWER PLIOCENE**Snake Creek Beds**

NEOTRAGOCERAS ZONE

CARNIVORA
 Canidae

- Amphicyon amnicola*, Matthew and Cook
 " sp. indet.

Aelurodon haydeni validus, Matthew and Cook
 " *saevus secundus*, Matthew and Cook
Tephrocyon hippophagus, Matthew and Cook
 cf. *temerarius*, Leidy
 " cf. *vafer*, Leidy
 " sp. maj.

?*Cyon* sp.

Procyonidae

Bassariscus antiquus, Matthew and Cook

Mustelidae

3 sp. gen. indet.

Felidae

Machaerodont gen. indet.

?*Felis* cf. *maxima*, Scott and Osborn

RODENTIA

Mylagaulidae

Mylagaulus cf. *monodon* (Cope)

Castoridae

Dipoides brevis, Matthew and Cook

Dipoides tortus, Leidy

Hystriops cf. *venustus*, Leidy

Geomyidae

Geomys cf. *bisulcatus*, Marsh

EDENTATA

Megalonychidae

Gen. indet.

PERISSODACTYLA

Rhinocerotidae

Teleoceras sp.

Aphelops sp.

?*Caenopus* sp.

Equidae

Hypohippus cf. *affinis*, Leidy.

Parahippus cf. *cognatus* Leidy

Merychippus, 2 or more sp.

Neohipparion, 3 or more sp.

Protohippus, 2 or more sp.

Pliohippus, 3 or more sp.

ARTIODACTYLA

Dicotylidae

Prosthenops cf. *crassigenis*, Gidley

" sp.

Merycoidodontidae

Meteoreodon relictus, Matthew and Cook" " *profectus*, Matthew and Cook

Camelidae

Megatylopus gigas, Matthew and Cook*Alticamelus procerus*, Matthew and Cook

" sp.

" sp.

Procamelus sp.

" sp.

Cervidae

Palaeomeryx sp.*Cervus* sp.*Blastomeryx elegans*, Matthew and Cook" cf. *wellsi* Matthew

Antilocapridae

Merycodus cf. *necatus* Leidy

? " sp. maj.

? " sp. min.

Bovidae

Neotragocerus improvisus, Matthew and Cook

Bovid gen. indet.

Bison sp. indesc.

PROBOSCIDEA

Elephantid, gen. indesc.**PLEISTOCENE****Niobrara River Gravels**

Bovidae

? *Bison* sp.

Cervidae

Odocoileus sp. indesc.

PROBOSCIDEA

Elephantidae

Elephas ? *columbi*

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