







U. S. Surgeon General

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LIST OF SKELETONS AND CRANIA

IN THE

SECTION OF COMPARATIVE ANATOMY

OF THE

UNITED STATES ARMY MEDICAL MUSEUM,

FOR USE DURING THE

INTERNATIONAL EXHIBITION OF 1876

IN CONNECTION WITH THE

REPRESENTATION OF THE MEDICAL DEPARTMENT U. S. ARMY.

ARMY MEDICAL MUSEUM, WASHINGTON, D. C.
1876.

PHILADELPHIA:
COLLINS, PRINTER.
705 Jayne Street.

North American Mamm.

Class Mammalia

Subclass Placentalia

Super Order Educabilia

Order Ferac

Sub Order Fissipedia

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" Canidae 6

" Mustelidae 6

" Ursidae 7

" Procyonidae 7

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Sub Order Artiodactyli 8

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ADVERTISEMENT.

THIS list of the skeletons and crania in the Section of Comparative Anatomy of the United States Army Medical Museum was prepared by Dr. H. C. YARROW, and is intended for distribution, during the Centennial Exhibition, among naturalists and others interested in comparative anatomy, for the purpose of showing the deficiencies of our collection, and soliciting contributions.

This collection constitutes one section of the Army Medical Museum, which, at present, is divided into six sections, as follows:—

In charge of Assistant Surgeon G. A. OTIS, U. S. A., Curator,

Surgical section	6539 specimens.
Anatomical section	1254 “
Miscellaneous section	240 “

In charge of Assistant Surgeon J. J. WOODWARD, U. S. A. :—

Medical section	1279 specimens.
Microscopical section	7275 “
Comparative Anatomy section	1522 “

The Army Medical Museum was created primarily for the purpose of preserving specimens illustrative of the wounds and diseases which produce death and disability during war, with the view of thereby facilitating the study of methods for diminishing mortality and alleviating suffering among soldiers. It is now the desire of the Surgeon General that, so far as the means placed at his disposal will permit, the collection shall be extended so as to embrace all forms of injuries and disease, so that it shall eventually become a general Pathological Museum, accessible for study to all medical men who are prosecuting original inquiries. Of the great usefulness of such a collection, it is unnecessary here to speak, or to point out how vain all hopes have proved that any large collection of this kind can be created except with the aid

and support of government. A cabinet of comparative anatomy furnishes the means for useful collateral studies, subordinate to the general purposes of a Pathological Museum: hence, such cabinets are found in connection with most of the great Pathological Collections of Europe, and one has been commenced at the Army Medical Museum.

The appropriations for the support of the Museum have been hitherto too limited to permit the expenditure of any considerable sum on the collection of comparative anatomy. The specimens enumerated in the following list were for the most part collected by medical and other officers of the army on duty at frontier posts. For the present, any increase of the collection can only be expected from such donations, which will thankfully be received from army officers or others, or from exchanges of duplicate specimens, which, however, as yet are only possible to a very limited extent.

Specimens presented need not be thoroughly cleaned and mounted. This laborious work is done in the Museum by Dr. F. SCHAFFHIRT, by whom the greater part of the specimens enumerated in the following list were prepared. It will be sufficient, in the case of large skeletons or crania, if the flesh is roughly dissected from bone and the viscera, brain, &c., removed. The preparation thus prepared can be packed in a mixture of sawdust and salt, or simply dried, for transportation. Small animals are best preserved in alcohol, in which case an incision should be made along the middle line of the abdomen to give the alcohol access to the viscera.

J. J. WOODWARD,

Assistant Surgeon U. S. A.

*In charge of the Medical, Microscopical, and Comparative
Anatomy Sections, Army Medical Museum.*

and of

*The Representation of the Medical Department U. S. Army,
at the International Exhibition.*

LIST OF CRANIA AND SKELETONS OF NORTH AMERICAN MAMMALS.

Note.—In the preparation of this list the classification adopted is substantially the same as that of Dr. Theo. Gill in his paper entitled “*Arrangement of the Families of Mammals*,” Smithsonian Miscellaneous Collections, No. 230, 1872, and the nomenclature of the species is in accordance, for the most part, with the more recent views of prominent American Mammalogists.

CLASS MAMMALIA.

SUB-CLASS Placentalia.

SUPER-ORDER EDUCABILIA.

ORDER Ferae.

SUB-ORDER FISSIPEDIA.

Family FELIDÆ: *Cats, etc.*

Sub-Family *Felinæ*: Typical Cats.

Cran.	Skel.	Lynx rufus (Guldenstädt), Raf.	<i>Wild Cat.</i>
952,	✓		
1059,	✓		
1160,	✓		
1383,	✓		
Cran.	Skel.	Lynx rufus maculatus, Cs. and Yar.	<i>Texas Wild Cat.</i>
1080,	✓		
1080,	✓		
793,	✓		
Cran.	Skel.	Lynx rufus fasciatus, Cs. and Yar.	<i>Red Cat.</i>
1396,	✓		
Cran.	Skel.	Lynx canadensis (Geoff and Desm.), Raf.	<i>Canada Lynx.</i>
180,	✓		
Cran.	Skel.	Felis concolor, Linn.	<i>Panther; Painter; Puma; Cougar;</i>
178,	✓	631,	✓ <i>American or California Lion.</i>
179,	✓		
828,	✓		
954,	✓		
Cran.	Skel.	Felis onça, Linn.	<i>Jaguar; Mexican Tiger.</i>
1412,	✓		

Family CANIDÆ: *Dogs, etc.*Sub-Family Caninæ: *Wolves.*

- Cran. Skel.** *Canis lupus occidentalis*, Cs. and Yar. *American Wolf*;
 184, ✓ 712, ✓ *Timber or Buffalo Wolf*; *Lobo of the Mexicans.*
 185, ✓
 713, ✓
 714, ✓
 1417, ✓
 1418, ✓

- Cran. Skel.** *Canis latrans*, Say. *Coyote*; *Prairie Wolf.*
 186, ✓ 907, ✓
 710, ✓ 1084, ✓
 711, ✓
 715, ✓

Sub-Family Vulpinæ: *Foxes.*

- Cran. Skel.** *Vulpes vulgaris pennsylvanicus*, Cs. *Red Fox.*
 189, ✓ 99, ✓
 190, ✓
 191, ✓
 192, ✓

- Cran. Skel.** *Vulpes macrourus*, Baird. *Prairie Fox.*

- Cran. Skel.** *Vulpes velox*, And. and Bach. *Kit Fox*; *Swift Fox.*
 955, ✓ 1314, ✓

- Cran. Skel.** *Vulpes littoralis*, (Baird.) *Island Fox.*

- Cran. Skel.** *Urocyon cinereo-argentatus* (Schreber), Cs. *Gray Fox.*
 193, ✓ 2523
 194, ✓
 195, ✓
 196, ✓

Family MUSTELIDÆ: *Weasels, etc.*Sub-Family Mustelinæ: *Martins.*

- Cran. Skel.** *Mustela pennanti*, Erxl. *Fisher*; *Black Cat.*
 198, ✓

- Cran. Skel.** *Mustela americana*, Turton. *Pine Martin*; *American Sable.*
 197, ✓
 957, ✓

- Cran. Skel.** *Putorius longicauda*, Rich. *Long-tailed Ermine.*
 852, ✓
 1424, ✓

- Cran. Skel.** *Putorius erminea*, (Linn.), Cuv. *White Weasel*; *Ermine.*
 1058, ✓ 722, ✓
 1075, ✓



Cran. Skel. Putorius vison, Rich. *Brown Mink.*

199, ✓

595, ✓

1315, ✓

1316. ✓

Cran. Skel. Gulo luscus, Sabine. *Wolverine.*

200. ✓

Sub-Family *Melinæ*: Badgers.

Cran. Skel. Taxidea americana (Bodd), Baird. *Missouri Badger.*

203, ✓ 795. ✓

612, ✓

834, ✓

950, ✓

1419. ✓

1236 ✓
1244 ✓

~~Sub-Family Mephitinae: Skunks.~~

Cran. Skel. Mephitis mephitica (Shaw), Baird. *American Skunk.*

825, ✓ 161. ✓

202, ✓ 2185 ✓

704, ✓

956, ✓

1193. ✓

2084 ✓

Sub-Family *Lutrinae*: Otters.

Cran. Skel. Lutra canadensis (Turton), Cuv. *American Otter.*

201, ✓

951. ✓

Family *URSIDÆ*: Bears.

Cran. Skel. Ursus arctos horribilis (Ord.), Cs. and Yar. *Grizzly Bear.*

205, ✓ 1042. ✓

672, ✓

1006, ✓

1043. ✓

22401

Cran. Skel. Ursus americanus, Pallas. *Black Bear.*

206, ✓ 1210. ✓

207, ✓ 1200 ✓

208, ✓ 1243 ✓

209, ✓ 2463 ✓

210. ✓

Ursus

Cran. Skel. ~~Thalarectos~~ maritimus (Linn.), ~~Guy.~~ *White or Polar Bear.*

211. ✓

Family *PROCYONIDÆ*: Raccoons, etc.

~~Sub-Family Procyoninae: Typical Raccoons.~~

Cran. Skel. Procyon lotor (Linn.), Starr. *Common Raccoon.*

204, ✓ 134. ✓

613, ✓ 2078 ✓

1069. ✓

2077 ✓

1380
1381

SUB-ORDER **PINNIPEDIA.**Family OTARIIDÆ: *Eared Seals.*

- Cran. Skel.** Callirhinus ursinus (Schreber), Gray. *Fur Seal.*
1057. ✓
- Cran. Skel.** Eumetopias stelleri (Fischer), Gray. *Sea Lion.*
1048. ✓
- Cran. Skel.** Zalophus gilliespii (MacBain), Gill. *Sea Dog.*
261. ✓

Family PHOCIDÆ: *Hair Seals.*Sub-Family *Phocinæ.*

- Cran. Skel.** Phoca vitulina, Linn. *Common Seal; Harbor Seal.*
259. ✓
- (142) **Cran. Skel.** Erignathus barbatus (O. Fabr.), Gill. *Square-Flipper Seal.*
258. ✓

Sub-Family *Cystophorinæ*: *Crested Seals.*

- 260 **Cran. Skel.** Cystophora cristata (Erxl.), Nilsson. *Hooded Seal.*
266. ✓

Family ROSMARIDÆ: *Walruses.*

- Cran. Skel.** Rosmarus obesus (Illiger), Gill. *Atlantic Walrus.*
888. ✓ 1053. ✓

ORDER **Ungulata.**SUB-ORDER **ARTIODACTYLI.**Family BOVIDÆ: *Bovines.*Sub-Family *Bovinæ*: *Typical Bovines.*

- (Bison) **Cran. Skel.** ~~Bos~~ americanus (Gmelin), *American Buffalo.* Gray
832. ✓ 686. ✓
959. ✓

Sub-Family *Ovinæ*: *Sheep.*

- (1061) **Cran. Skel.** Ovis montana, Cuvier. *Rocky Mountain Sheep; Bighorn.*
671. ✓ ~~1051.~~
1049. ✓
1422. ✓
2259. ✓

Family ANTILOCAPRIDÆ: *American Antelopes.*

- Cran. Skel.** Antilocapra americana (Ord.). *Antelope; Prong-horn*
252. ✓
253. ✓
682. ✓
683. ✓
27 ~~680.~~
1050. ✓



~~Cervus~~ *macrotis* var. *columbianus*, Rich. Columbia
bran. Black tailed Deer.
2241. ✓

Delphinus chymene, Gray. Porpoise
bran.
1148 ✓
1266 ✓
1267 ✓

Phocaena americana, Agassiz. Snuffer or
bran. Puffing Pig.
1854 ✓

Family CERVIDÆ: *Deer*.

Sub-Family Cervinæ: Typical Deer.

Cran. Skel. Cervus canadensis, Erxl. *American Elk; Wapiti.*

247, ✓ 1069. ✓

1022, ✓

1077, ✓

1525, ✓

1537. ✓

Cran. Skel. Cariacus macrotis (Say), Gray. *Mule, or Black tailed Deer.*

248, ✓ 1545. ✓

1894. ✓ 1589. ✓

Cran. Skel. Cariacus virginianus (Bodd), Gray. *Virginia Deer; Red Deer.*

249, ✓ 634. ✓

250, ✓

251, ✓

622, ✓

635. ✓

Cran. Skel. Cariacus virginianus macrourus (Raf.), Cs. *White-tailed Deer.*

833, ✓ 1544. ✓

1395. ✓

Family DYCOTYLIDÆ: *Peccaries.*Cran. Skel. Dicotyles torquatus, Cuvier. *Peccary.*

244. ✓ 829. ✓

ORDER Cete.

SUB-ORDER DENTICETE.

Family DELPHINIDÆ: *Dolphins, etc.*

Sub-Family Delphininæ: Typical Dolphin.

Cran. Skel. Delphinus delphis, Linn.

262. ✓ 1308. ✓

SUPER-ORDER INEDUCABILIA.

ORDER Chiroptera.

~~SUB-ORDER ANIMATIVORA~~Family NOCTILIONIDÆ: *Free-tailed Bats.*Cran. Skel. Nyctinomus nasutus (Spix.), Tomes. *Snouty Bat.*

238. ✓ 601. ✓

Family VESPERTILIONIDÆ: *Ordinary Bats.*Cran. Skel. Corynorhinus macrotis (Le Conte), Allen. *Big-eared Bat.*

986. ✓

Cran. Skel. Antrozous pallidus (Le Conte), Allen. *Pale Bat.*

981. ✓ 848. ✓

Cran. Skel. Atalapha (*Nycticejus*) crepuscularis (Le Conte), Cs. *Twilight Bat.*

1192. ✓ 1009. ✓

227 ✓
231 ✓
232 ✓

- Cran. Skel.** *Atalapha (Lasiurus) noveboracensis* (Erxl.), Cs. *Red Bat*;
1353. ✓ 1198. ✓ *New York Bat.*
- Cran. Skel.** *Vespertilio subulatus*, Say. *Little Brown Bat.*
992. ✓ 113 ✓
996. ✓ 600 ✓
997. ✓
1208. ✓
- Cran. Skel.** *Vespertilio (Vesperus) fuscus*, Beauv. *Carolina Brown Bat.*
1008. ✓ 174. ✓
854. ✓
- Cran. Skel.** *Vespertilio (Vesperugo) georgianus*, F. Cuv. *Georgia Bat.*
1134. ✓ 849. ✓

ORDER **Insectivora.**SUB-ORDER **INSECTIVORA VERA.**Family **TALPIDÆ**: *Moles.*Sub-Family *Talpinae*: Typical Moles.

- Cran. Skel.** *Scalops aquaticus* (Linn.), Cuvier. *Common Mole.*
112. ✓
- Cran. Skel.** *Condylura cristata* (Linn.), Illiger. *Star-nosed Mole.* ←
1106. ✓

Family **SORICIDÆ**: *Shrews.*

- Cran. Skel.** *Sorex personatus*, Geoff. *Masked Shrew.* ←
232. ✓

ORDER **Glires.**SUB-ORDER **SIMPLICIDENTATA.**Family **ZAPODIDÆ**: *Jumping Mice.*

- Cran. Skel.** *Zapus hudsonius* (Zimm.), Cs. *Jumping Mouse.*
1326. ✓ 2113 ✓
1797 ✓
2136 ✓
2137 ✓
- Family **MURIDÆ**: *Mice.*
- Sub-Family *Murinae*: Typical Mice.

- Cran. Skel.** *Mus decumanus*, Pallas. *Common Rat.*
130. ✓ 19. ✓
222. ✓
223. ✓
552. ✓
- Cran. Skel.** *Mus tectorum*, Savi. *White bellied Rat.*
984. ✓
985. ✓
- Cran. Skel.** *Mus musculus*, Linn. *Common House Mouse.*
225. ✓ 69. ✓
226. ✓ 1191 ✓
227. ✓
- Cran. Skel.** *Neotoma floridana* (Say), Ord. *Wood Rat.*
224. ✓ 2156 ✓
983. ✓
2154 ✓
2157 ✓

Scalops argentatus, Aud. Silvery mole.
Cran. Skel.
2155 ✓

Sorex cooperi, Bach. Cooper's Shrew
Cran. Skel.
2166 ✓
2167 ✓
2168 ✓
2169 ✓

Sorex pachyurus, Baird. Thick tailed
Cran. Skel. Shrew
2182 ✓
2183 ✓

Blarina brevicauda, Gray. Short tailed
Cran. Skel. Shrew
2142 ✓ 2141 ✓
2143 ✓



cran. Skel. *Hesperomys (Onychomys) leucogaster* (Max)
2138 ✓ 2089 ✓
2135 ✓ bones. Missouri Mole Mouse

cran. Skel. *Ochetodon longicauda* (Baird) Es. Long-
1574 ✓ 2068 ✓
2069 ✓ tailed mouse.
2070 ✓
2071 ✓
2072 ✓
2073 ✓

cran. Skel. *Arvicola (Myonomys) townsendi*, Bach.
2223 ✓ Townsend's meadow mouse.

cran. Skel. *Arvicola (Podomys) austerus*, Le. Prairie
2133 ✓ 2150 ✓
2134 ✓ meadow mouse
2151 ✓
2152 ✓

cran. Skel. *Perognathus hispidus*, Baird
1705 ✓
1706 ✓

- Cran. Skel.** *Neotoma cinerea* (Ord.), Baird. *Rocky Mountain Rat.*
2111 ✓ 1356. ✓
- Cran. Skel.** *Sigmodon hispidus* (Say), Ord. *Cotton Rat.*
967, ✓
968, ✓
969, ✓
970. ✓
- Cran. Skel.** *Hesperomys (Vesperimus) leucopus* (Raf.). *White-footed Mouse.*
597, ✓ 1406. ✓
1328. ✓
1573 ✓
1708 ✓
- Sub-Family *Arvicolinæ*: Field Mice.
- Cran. Skel.** *Arvicola (Myonomes) riparius*, Ord. *Field Mouse.*
608, ✓ 1709 ✓
1040, ✓ 2087 ✓
1404. ✓
- Cran. Skel.** *Fiber zibethicus* (Linn.), Cuvier. *Musk Rat.*
228, ✓ 2066 ✓
229, ✓
230, ✓
1194. ✓
1317 ✓
1421 ✓
- Family SACCOMYIDÆ: Pouched Mice.
Sub-Family *Dipodomysinæ*
- Cran. Skel.** *Dipodomys phillipsi ordi* (Woodh.), Cs. *Kangaroo Rat.*
681, ✓
1137. ✓ 1569 ✓
- Cran. Skel.** *Cricetodipus flavus*, Baird. *Western Mouse.*
990. ✓
- Family GEOMYIDÆ: Gophers.
- Cran. Skel.** *Geomys bursarius*, Shaw. *Pouched Gopher.*
719, ✓ 1703 ✓
2064 ✓ 1895 ✓
827. ✓ 2062 ✓
2065 ✓ 2063 ✓
- Cran. Skel.** *Thomomys talpoides* (Rich.), Baird. *Fort Union Gopher.*
1310. ✓ 1704 ✓
- Cran. Skel.** *Thomomys talpoides umbrinus* (Rich.), Cs. *Black-faced Gopher.*
1001, ✓ 1572 ✓
1002. ✓
1551 ✓
2474 ✓
- Family CASTORIDÆ: Beavers.
- Cran. Skel.** *Castor canadensis*, Kuhl. *American Beaver.*
220, ✓ 1081, ✓
221, ✓ 1082. ✓
794, ✓ 1901 ✓
822. ✓
- Family SCIURIDÆ*: Squirrels, etc.
Sub-Family *Sciurinae*: Typical Squirrels.
- Cran. Skel.** *Sciurus aberti*, Woodh. *Tuft-eared Squirrel.*
975. ✓ 1357. ✓

* Nomenclature according to Mr. S. A. Allen "Proc. Brit. Soc. Nat. Hist. Vol XVI Feb. 4, 1874.

- Cran. Skel. *Sciurus hudsonius*, Pallas. *Red Squirrel*.
 216. ✓ 1355. ✓
 (2059 ✓)
- Cran. Skel. *Sciurus vulpinus*, Gmelin. *Southern Fox Squirrel*.
 623. ✓ *niger var. cinereus (Linn.) Allen*
 624. ✓
 to
- Cran. Skel. *Sciurus cinereus*, Linn. *Fox or Cat Squirrel of Middle States*.
 214. ✓
 215. ✓
- Cran. Skel. *Sciurus carolinensis*, Gmelin. *Gray Squirrel*.
 14. ✓
 (10)
- Sciuropterus* Cran. Skel. *Pteromys volucella*, Cuv. *Flying Squirrel*.
 175. ✓
- Sciuropterus* Cran. Skel. *Pteromys volucella oregonensis* (Bach). *Oregon Flying Squirrel*.
 896. ✓
- Cran. Skel. *Tamias striatus* (Linn.). *Chipmunk*.
 596. ✓ 561. ✓ (2067 ✓)
- Cran. Skel. *Tamias quadrivittatus* (Say), Rich. *Four-striped Squirrel*.
 1361. ✓ 1362. ✓
 (2139 ✓)
- Cran. Skel. *Tamias lateralis* (Say), Allen. *Rocky Mountain Chipmunk*.
 1363. ✓
 (1667 ✓) (1687 ✓) (1549 ✓)
- Cran. Skel. *Spermophilus grammurus* (Say), Bach. *Line-tail Squirrel*.
 974. ✓
 1398. ✓
- Cran. Skel. *Spermophilus tridecem-lineatus* (Mitch.), Aud. and Bach.
 1312. ✓ 1311. ✓ *Striped Prairie Squirrel*.
 1313. ✓ (2060 ✓)
- Cran. Skel. *Spermophilus richardsoni* (Sabine), Bd. *Richardson's Gopher*.
 1433. ✓
- Cran. Skel. *Cynomys ludovicianus* (Ord.), Bd. *Prairie Dog*.
 217. ✓ 905. ✓
 218. ✓ 1409. ✓
 835. ✓ 1410. ✓
 903. ✓
 904. ✓
- Cran. Skel. *Cynomys columbianus* (Ord.), Allen. *Short-tailed Prairie Dog*.
 1352. ✓
 (1686 ✓)
- Sub-Family *Arctomyinae*: Woodchucks.
- Cran. Skel. *Arctomys monax*, Linn. *Woodchuck*.
 219. ✓ 1205. ✓
 (2056 ✓)
- Cran. Skel. *Arctomys flaviventer*, Aud. and Bach. *Yellow-bellied Marmot*.
 1358. ✓
- Family *HYSTRICIDÆ*: Porcupines.
- Cran. Skel. *Erethizon dorsatus*, Cuvier. *Porcupine*.
 978. ✓

from *Sciurus hudsonius*

cran. Skel. *Sciurus hudsonius* var. *fremonti* (Pallas) Allen. Fremont's squirrel.

cran. Skel. *Sciurus hudsonius* var. *dougllassii* (Bach) Allen. Oregon red squirrel

cran. Skel. *Sciurus niger* var. *ludovicianus* (Lust) Allen. Western Fox Squirrel

var. *volucella* (Desm.) Allen

var. *hudsonius* (Bach) Allen.

cran. Skel. *Tamias harrisi* (Aud. & Bach) Allen. Harris' chipmunk

cran. Skel. *Spermophilus richardsoni* var. *torrensii* (Sab.) Allen. Torrens's spermophile.

cran. Skel. *Spermophilus franklini* (Sab.) Leeson. Franklin's Spermophile: Gray-headed spermophile.

cran. Skel. *Spermophilus mexicanus* (Licht) Wagner Mexican Spermophile

cran. Skel. *Spermophilus leecheyi* (Rich) Allen. California ground squirrel.



Cran. Skel. *Lepus campestris*, Baird. Northern Prairie
2390 v Hare.

Cran. Skel. *Lepus sylvaticus auduboni* (Baird) Allen
2295 v Audubon Rabbit

Cran. Skel. *Lepus townsendi*, Baird. Town-
2094 v s' Hare

Order *Pruta*

Sub-Order *Loricata*

Family *Dasypodidae*

~~Sub-Family *Fatuciinae*~~

Cran. Skel. *Fatuciia septem-cinctus* L. Rio
2127 v 2070 v Grande Armadillo

Cran. Skel. Erethizon epixanthus, Brandt. *Yellow-haired Porcupine.*
 231, ✓ 2320 ✓
 1680 ✓

SUB-ORDER DUPLICIDENTATA.

Family LEPORIDÆ: *Hares.*

Cran. Skel. Lepus americanus, Erxl. *Great Northern Hare.*
 239, ✓

Cran. Skel. Lepus callotis, Wagler. *Jackass Rabbit.*
 237, ✓ 1756 ✓
 797, ✓ 1896 ✓

1238, ✓
 1360, ✓

Cran. Skel. Lepus sylvaticus, Bach. *Eastern Gray Rabbit.*
 240, ✓ 164, ✓

241, ✓
 212, ✓
 243, ✓

Cran. Skel. Lepus sylvaticus nuttali (Bach), Allen. *Sage Rabbit.*

972, ✓
 987, ✓
 988, ✓
 989, ✓

Cran. Skel. Lepus palustris, Bach. *Marsh Rabbit.*
 238, ✓

SUB-CLASS *Didelphia.*

ORDER *Marsupialia.*

SUB-ORDER DIDELPHIMORPHIA.

Family DIDELPHIDÆ: *Opossums.*

Cran. Skel. Didelphys virginianus, Shaw. *Common Opossum.*
 212, ✓ 1, ✓
 213, ✓ 162, ✓
 787, ✓ 163, ✓
 945, ✓

Cran. Skel. *Didelphys californica*, Bennett. *Black Opossum*
 2074 ✓

LIST OF CRANIA AND SKELETONS OF FOREIGN
AND DOMESTIC MAMMALS.

CLASS **MAMMALIA.**

SUB-CLASS **Placentalia.**

SUPER-ORDER **EDUCABILIA.**

ORDER **Primates.**

SUB-ORDER **ANTHROPOIDEA.**

Family **SIMIIDÆ.**

Sub-Family *Simiinae.*

Saele
2526 Hylobates
Sibon

Cran. Skel. *Simia satyrus*, Linn. *Orang Outang.*
1407. ✓ 7

Family **CYNOPITHECIDÆ.**

Sub-Family *Cynopithicinae.*

Cran. Skel. *Cercopithecus fuliginosus*, Cuvier. *Moor Ape Monkey.*
1066. ✓

Cran. Skel. *Cercopithecus pygerythus*, Cuvier. *Vervet.*
1299. ✓

Cran. Skel. *Macacus senicus* (Desm.), Gray. *Capped Macaque.*
1300. ✓

Cran. Skel. *Macacus cynomolgus*, Desm. *The Kra.*
1382. ✓

Cran. Skel. *Cynocephalus porcarius*, Desm. *Chacma.*
1297. ✓

Family **CEBIDÆ.**

Sub-Family *Mycetinae.*

Cran. Skel. *Mycetes seniculus*, Kuhl. *Golden Howler.*
1298. ✓

Sub-Family *Cebinae.*

Cran. Skel. *Ateles paniscus*, Geoff. *Spider Monkey.*
1296. ✓
2203 ✓

Family **MIIDIDÆ.**

Cran. Skel. *Œdipus titi*, Lesson. *Pinche.*
1302. ✓

SUB-ORDER **PROSIMIÆ.**

Family **TARSIIDÆ.**

Cran. Skel. *Tarsius spectrum*, Geoff. *Tarsius.*
1301. ✓

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Cran. Skull Sub Fam Colobinae

- 2481 *Leuconopithecus cucullatus*
- 2482 *Lagothrix*

Cran. Skull

- 2483 *Cynopithecus niger*
Blue Macaque

Skull 2527 *Midas rosalia*

~~440~~ *Acapace jacchus* - Marmoset

{ Cran. Skull *Lagothrix humboldtii*, Hoffmann
 2418 ✓ *A. Hilarii*. *Humboldtia montana*.

Fam. Lemnuriidae

Cran. Skull Sub Fam Lemnuriinae

- 2483 - *Varuca varia* Ruffed Lemur
- 2520 *Mytilicbus tardigradus* - Slow Lemur

Sub Fam Lorissinae

Skull 2484 *Loris gracilis*. Slender Loris
 Sub Fam Galagidae

Skull 2524 *Galago olotincus*



Family Viverridae

Crossed out

2487 *Neopetes madaagascaria*

Mongoose

2529 *Genetta vulgaris* -

Civet

Crossed out Family Ursidae

2488 *Ursus arctos*. European

Brown Bear

ORDER **Feræ.**SUB-ORDER **FISSIPEDIA.**Family **FELIDÆ**: *Cats, etc.*Sub-Family *Felinæ*: Typical Cats.

Cran.	Skel.	<i>Felis domesticus</i> , Linn. <i>Common Cat.</i>
95, ✓	20, ✓	
181, ✓	683,	
182, ✓	580,	
183, ✓		

Cran.	Skel.	<i>Felis tigris</i> , Cuv. <i>Bengal Tiger.</i>
	1307, ✓	

Family **CANIDÆ**: *Dogs, Wolves, etc.*Sub-Family *Caninæ*: Typical Dogs.

Cran.	Skel.	<i>Canis familiaris</i> , Linn. <i>Common Dog.</i>
29, 35, ✓	76, ✓	
187, ✓		
188, ✓		
739, ✓		

Family **MUSTELIDÆ**: *Martins, Weasels, etc.*Sub-Family *Mustelinæ*; Typical Weasels.

Cran.	Skel.	<i>Mustela martes</i> , Brisson. <i>Forest Mink.</i>
723, ✓		
Cran.	Skel.	<i>Putorius foetidus</i> , Linn. <i>European Iltis.</i>
724, ✓		
Cran.	Skel.	<i>Putorius vulgaris</i> (Briss.). <i>Field Weasel.</i>
730, ✓		
Cran.	Skel.	<i>Putorius erminea</i> (Linn.). <i>Great Weasel.</i>
732, ✓		

Sub-Family *Meline*: Badgers.

Cran.	Skel.	<i>Meles taxus</i> , Schreber. <i>European Badger.</i>
736, ✓		

Sub-Family *Lutrinæ*: Otters.

Cran.	Skel.	<i>Lutra vulgaris</i> , Linn. <i>European Otter.</i>
740, ✓		

ORDER **Ungulata.**SUB-ORDER **ARTIODACTYLLI.**Family **BOVIDÆ**: *Bovines.*Sub-Family *Bovinæ*: Typical Bovines.

Cran.	Skel.	<i>Bos taurus</i> (Linn.), Cuvier. <i>Cow.</i>
50, ✓	802, ✓	

222, ✓

Sub-Family *Antilopinæ*: European Antelope; Chamois, etc.

Cran.	Skel.	<i>Rupicapra tragus</i> , Linn. <i>Chamois.</i>
738, ✓	871, ✓	

Sub-Family *Caprinæ*: Goats, etc.

Cran.	Skel.	<i>Capra hircus</i> . <i>Common Goat</i> .
254, ✓	106, ✓	
255, ✓		
256, ✓		

Sub-Family *Ovinæ*: Sheep.

Cran.	Skel.	<i>Ovis aries</i> , Linn. <i>Common Sheep</i> .
257, ✓		
619, ✓		
620, ✓		

Family PHACOCHERIDÆ.

Cran.	Skel.	<i>Phacochoerus æliani</i> , Gretz. <i>Wart Hog</i> .
1309, ✓		

Family SUIDÆ: *Swine*.

Cran.	Skel.	<i>Sus scrofa</i> , Linn. <i>Common Hog</i> .
47, ✓	123, ✓	
52, ✓	853,	
245, ✓	856,	
246, ✓		

SUB-ORDER PERISSODACTYLI.

Family EQUIDÆ: *Horses, etc.*

Cran.	Skel.	<i>Equus caballus</i> , Linn. <i>Horse</i> .
34, ✓	801, ✓	
Cran.	Skel.	<i>Equus asinus caballus</i> , Linn. <i>Mule</i> .
1408, ✓		

SUPER-ORDER INEDUCABILIA.

ORDER Chiroptera.

SUB-ORDER ANIMALIVORA.

Family VESPERTILIONIDÆ.

Sub-Family *Vespertilionines*.

Cran.	Skel.	<i>Vesperugo noctula</i> , Blas. <i>Shining Bat</i> .
731, ✓		
Cran.	Skel.	<i>Vesperugo pipistrellus</i> , Blas. <i>Common European Bat</i> .
728, ✓		
Cran.	Skel.	<i>Vesperugo discolor</i> , Blas. <i>Parti-colored Bat</i> .
729, ✓		
Cran.	Skel.	<i>Plecotus auritus</i> (Linn.), Geoff. <i>Long-eared Bat</i> .
727, ✓		

ORDER Insectivora.

~~SUB-ORDER INSECTIVORA-VERA.~~Family TALPIDÆ: *Moles*.Sub-Family *Talpinae*: Typical Moles.

Cran.	Skel.	<i>Talpa europæa</i> , Linn. <i>Black Mole</i> .
734, ✓		
735, ✓		

snail Family Tragulidae
 2492 *Tragulus javanicus*
 Java Sumatra Deer or Chevrotain

snail Family Camelidae
 2491 *Stomax parvus*. Alpaca

Order Viverra
 Family Halicoridae
 snail 2490 *Halicore australis* - Kangaroo

Order Cetacea
 Sub-order Platanista
 snail 2489 Family, Delphinidae
 2489 *Delphinus tursio*

snail 2486 Family Centetidae
 2486 *Centetes caudatus* Parua

Fam. ~~Paupaiidae~~ Paupaiidae
Shrew
2521 Paupaias minor
Squirre shrew

Family SORICIDÆ: *Shrews.*

Cran. Skel. *Crocidura araneus* (Schreber.). *Common Shrew.*
733. ✓

Family ERINACEIDÆ: *Hedgehogs.*

~~Sub-Family Eritaccinæ: Typical Hedgehogs.~~

Cran. Skel. *Erinaceus europæus*, Linn. *Hedgehog.*
725. ✓

ORDER Glires.

SUB-ORDER SIMPLICIDENTATI.

Family MURIDÆ: *Rats, Mice, etc.*

~~Sub-Family Murinæ: Typical Mice.~~

Cran. Skel. *Arvicola amphibius*, Linn. *Water-Rat.*
726. ✓

Family CAVIIDÆ: *Cavies, etc.*

Cran. Skel. *Cavia cabaya*, Linn. *Guinea Pig.*
869, ✓ ~~872.~~
870, ✓ 1918 ✓
908, ✓
909. ✓

SUB-ORDER DUPLICIDENTATI.

Family LEPORIDÆ: *Rabbits, Hares, etc.*

Cran. Skel. *Lepus timidus*, Linn. *European Hare.*
737. ✓

Cran. Skel. *Lepus cuniculus*, Linn. *English Rabbit.*
234, ✓ 48. ✓
235, ✓
236, ✓
1023. ✓

Cran. Skel. *Lepus madagascarensis*, Linn. *Lop-eared Rabbit.*
818. ✓

ORDER Bruta.

SUB-ORDER TARDIGRADA.

Family BRADYPODIDÆ.

Sub-Family *Cholæpodinæ.*

Cran. Skel. *Cholæpus hoffmanii*, Gray. *Two-toed Sloth.*
1303. ✓

2

Skel

2493

Sub order Eutomophaga
Family Myrmecophagidae
Cyclothurus didactylus
Slender or Two-toed Anteater

Sub Fam. Phascolarinae
 2500 Phascolarator cinereus 18
 Native Desm.

SUB-CLASS Didelphia.

ORDER **Marsupialia.**

SUB-ORDER ~~SYNDACTYLI~~ *Liprodontia*

FAMILY PHALANGISTIDÆ.

Sub-Family *Phalangistine.*

Cran. Skel. Phalangista vulpina, Desm. *Australian Opossum.*

1306.

2447

SUB-CLASS Ornithodelphia.

ORDER **Monotremata.**

SUB-ORDER **TACHYGLOSSA.**

FAMILY TACHYGLOSSIDÆ.

Cran. Skel. *Echidna aculeata*, Gray. *Porcupine Ant-eater.*

1305.

2496

SUB-ORDER **PLATYPODA.**

FAMILY ORNITHORHYNCHIDÆ.

Cran. Skel. Ornithorhynchus anatinus, Shaw. *Duck-bill Platypus.*

1304.

LIST OF CRANIA, SKELETONS, AND STERNA OF BIRDS.

Note.—The Classification adopted is that of Dr. Elliot Coues, U. S. A., in his *Key to North American Birds*, 1872, and the nomenclature corresponds with his *Check List of North American Birds*, 1873.

CLASS AVES.

ORDER **Passeres**: Perchers.

SUB-ORDER **OSCINES**: Singing Birds.

FAMILY **TURDIDÆ**: *Thrushes.*

Sub-Family *Turdinæ*: Typical Thrushes.

Cran. Skel. Turdus migratorius (L.). *Robin.*

83, 56, 46.

294.

295.

Cran. Skel. Turdus mustelinus, Gm. *Wood Thrush.*

296.

297.

298.

2284.

2285.

sternum

2283

See page 32
33

See page 39

Tachyglossus

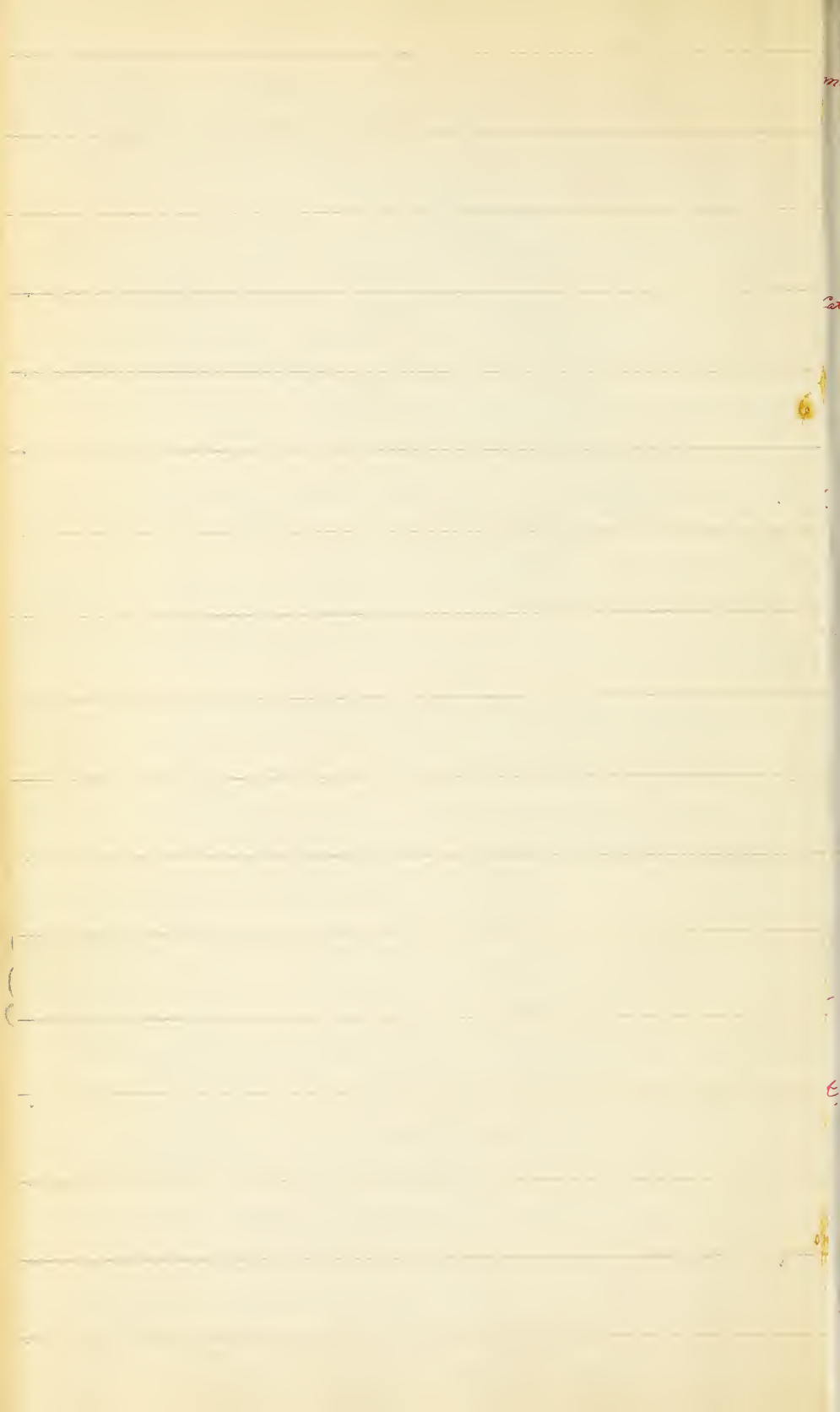
Incert
Sub Class
Passerinae
various Birds

Monstrosities of Mammals

579	853	1253	1259	1321	2170	
580	856	1255	1260	1368	2184	2466
680	872	1256	1261	1712	2385	2570
683	1176	1257	1275	2067	2393	2571
791	1178	1258	1320	2153	2448	

Miscellaneous Spec. of and from Mammals.

22	651	749	776	910	1263	2467	2468
30	660	750	777	948	1270	2468	
72	661	751	778	953	1290	2455	
100	670	752	779	1007 1024	1364	2472	
121	676	753	780	1029 1041	1366	2473	
122	678	754	781	1045	1411	2475	
128	685	755	782	1046	1416	2548	
159	687	756	783	1047	1423	2515	
160	688	757	784	1056 1056	1440		
176	689	758	785	1062 1065	1441		
177	690	759	786	1067 1068	1523		
581	691	760	792	1083 1138	1524		
625	692	761	798	1177	1526		
636	693	762	799	1181	1557		
637	694	763	804	1184	1591 1721		
638	695	764	805	1189	1722		
639	696	765	808	1195	1737		
640	697	766	810	1209	1757		
641	698	767	813	1217	1755		
642	699	769	814	1218	1996		
644					2055	2057	
645	721	770	816	1219	2087		
646	744	771	841	1220	2204		
647	745	772	873	1224	2205		
648	746	773	889	1234	2222		
649	747	774	890	1245	2237		
650	748	775	906	1254	2407 2462		





cran. Skel. Stern. *Turdus swainsoni*, Cal. var.
2305. 2306 ✓ *aliciae* (Bd) ls. Alice's thrush

cran. *Harporhynchus pedionus*, Cal. Sickle-bill thrush
1567 ✓

Family *Sylviidae* - Sylvia.
Sub-family *Regulinae*. Kinglets
Regulus satrapa, Licht. Golden Crested Kinglet.

cran. Skel. Ster.
2307 ✓ 2319 ✓
2318 ✓

cran. *Regulus calendula* Ruby crowned
2443 Kinglet.

cran. Stern. *Parus atricapillus* L., var. *septem-*
2407 ✓ 2220 ✓ *trionalis* (Harri's) All. Song-tailed
2408 ✓ chickadee.

- Stomium*
2266 ✓
- Cran. Skel.** *Turdus pallasi*, Cab., var. *Nanus* (Aud.), Cs. *Dwarf Thrush.*
303. ✓
- Cran. Skel.** *Turdus Swainsoni*, Cab. *Olive-backed Thrush.*
304. ✓
- Cran. Skel.** *Turdus fuscescens*, Steph. *Wilson's Thrush; Veery.*
299. ✓
300. ✓
301. ✓
302. ✓

Sub-Family *Miminae*: Mocking Thrushes.

- Cran. Skel.** *Mimus polyglottus* (L.), Boie. *Mockingbird.*

340. ✓ 883. ✓

341. ✓

- Cran. Skel.** *Mimus carolinensis* (L.), Gr. *Catbird.*

342. ✓

343. ✓

344. ✓

345. ✓

- Cran. Skel.** *Harporhynchus rufus* (L.), Cab. *Brown Thrush; Thrasher.*

346. ✓ 45. ✓ *Stem.*

347. ✓ 2301 ✓

- Cran. Stern.** *Harporhynchus curvirostris* (Sw.), Cab., var. *palmeri*, Ridg. *Curve-billed Thrush.*

1478. ✓

- Cran. Stern.** *Harporhynchus crissalis*, Henry. *Red-vented Thrush.*

1465. ✓

Family *SAXICOLIDÆ*: Stone Chats.

- Cran. Skel.** *Sialia sialis* (L.), Haldeman. *Eastern Bluebird.*

305. ✓ 1109. ✓

306. ✓

307. ✓

Sub-Family *Polioptilinae*: Gnatcatchers.

- Cran. Skel.** *Polioptila caerulea*, Scf. *Blue-Gray Gnatcatcher.*

355. ✓

356. ✓

Family *PARIDÆ*: Titmice.

- Cran. Skel.** *Lophophanes bi-color* (L.), Bp. *Tufted Titmouse.*

354. ✓

- Cran. Stern.** *Lophophanes inornatus* (Gamb.), Cass. *Plain Titmouse.*

1495. ✓ 1496. ✓

- Cran. Stern.** *Lophophanes wollweberi*, Bp. *Bridled Titmouse.*

1476. ✓

- Cran. Skel.** *Parus atricapillus*, L. *Black-capped Chickadee.*

357. ✓

358. ✓

l. c.

stem
2196 ✓2195 ✓
2289 ✓

2279 ✓

2300 ✓

2265 ✓

2267 ✓

- Cran. Skel.** *Parus atricapillus*, L., var. *carolinensis* (Aud.), Cs. *Carolina Chickadee*.
 1871, ✓
 1872, ✓
 1873, ✓
 1874, ✓

Family SITTIDÆ: *Nuthatches*.

- Cran. Skel.** *Sitta carolinensis*, Gm. *White-bellied Nuthatch*.
 350, ✓ *Stern. 2200*
 351, ✓

2198 ✓
2199 ✓

- Cran. Skel.** *Sitta canadensis*, L. *Red-bellied Nuthatch*.
 852, ✓
 853, ✓

Family CERTHIDÆ: *Creepers*.

- Cran. Stern.** *Certhia familiaris*, L. *Brown Creeper*.
 1507, ✓

- Cran. Skel. Stern.** *Campylorhynchus brunneicapillus* (Lafr.), Gr.
 1516, ✓ 1402, ✓ 1517, ✓ *Brown-headed Creeper-Wren*.

Skel.
1713Family TROGLODYTIDÆ: *Wrens*.

- Cran. Skel.** *Troglodytes ædon*, V. *House Wren*.
 849, ✓

- Cran. Skel.** *Troglodytes ædon*, V., var. *parkmanni* (Aud.), Cs. *Western House Wren*.
 1513, ✓

2439 ✓

- Cran. Skel.** *Telmatodytes palustris* (Nils.), Cab. *Long-billed Marsh Wren*.
 348, ✓

- Cran. Skel.** *Cistothorus stellaris* (Licht.), Cab. *Short-billed Marsh Wren*.
 1848, ✓

Family ALAUDIDÆ: *Larks*.

- Cran. Skel. Stern.** *Eremophila alpestris* (Forst.), Boie. *Horned Lark; Shore Lark*.
 859, ✓ 1434, ✓ 1480, ✓
 918, ✓
 914, ✓

2406 ✓

Family SYLVICOLIDÆ: *American Warblers*.

- Cran. Skel.** *Parula americana* (L), Bp. *Blue Yellow-backed Warbler*.
 309, ✓
 310, ✓

- Cran. Stern.** *Helminthophaga peregrina* (Wils.), Cal. *Tennessee Warbler*.
 1849, ✓ 1850, ✓

2276 ✓
2277 ✓
2304 ✓

- Cran. Stern.** *Dendroæca æstiva* (Gm.), Bd. *Summer Warbler*.
 321, ✓ 1831, ✓

- 322, ✓
 1830, ✓
 1832, ✓

- Cran. Skel.** *Dendroæca virens* (Gm.), Bd. *Black-throated Green Warbler*.
 316, ✓ 2313 ✓

2273 ✓

- Cran. Skel.** *Dendroæca cærulescens* (L.), Bd. *Black-throated Blue Warbler*.
 315, ✓

2444 ✓

Loran. Ster. *Sitta carolinensis*, Em. var. *aculeata*
 2398 ✓ 2405 ✓ (bars) All. Slender-billed Nuthatch.

Loran
 2317 *Thryothorus ludovicianus* Bon

Loran. *Anothura tringoides* (L) Gs., var. *hyemalis*
 2308 ✓ (Wils.) Gs. Winter Wren.

Loran. Skel. Ster. *Mniotilta varia* (L) V. Black & White Creeper
 271 ✓ 2297 ✓ 2271^a ✓
 292 ✓ 2272 ✓
 440

Stern.
 2274 ✓

Skel. *Dendroeca caerulea* (Wils) Bd. Caerulean Warbler
 2288 ✓

Sub Family Ovisae: Sheep

No	Object	
128	encephalon	<i>Ovis aries</i> , Linn. Common Sheep.
581	embryo	
1252	Three feet on one leg.	

Family Antilocapridae: American Antelope

No	Object	
910	Calcvarium of horn cutting skeleton of horns.	<i>Antilocapra americana</i> (Ord). Antelope, Prong horn Antelope; Caribee.
1721	two embryos	

Family Cervidae: Deer

Sub-Family Cervinae: Typical Deer.

No	Object	
676	Calcvarium	<i>Cervus canadensis</i> , Linn. American Elk, Wapiti.
721	Embryo	
1181	Horn ball from stomach	

No	Object	
685	embryo	<i>Cervus virginianus</i> (Bodl), Gray. Virginia Deer. Red Deer.

No	Object	
2237	Ball of matter rejected from stomach.	<i>Cervus virginianus mac^{cervus}rossi</i> (Raf) Co. White tailed deer.

Cran.	Stem.	<i>Sciurus aurocapillus</i> (L) Sw. Golden crowned thumb
2290 ✓	2291 ✓	
2316 ✓		
2438		
2442		

Cran.	<i>Pyrranga aestiva</i> (L) V. Summer Red Bird
2264 ✓	

- 2298 ✓
 2428 ✓
 2429 ✓
 2268 ✓
 2311 ✓
 2269 ✓
 2430 ✓
- Cran. Skel.** *Dendroeca coronata* (L.), Gr. *Yellow-rumped Warbler* ;
 325, ✓ *Myrtle Bird.* (Stern. 2299 ✓)
- Cran. Skel.** *Dendroeca blackburniae* (Gm.), Bd. *Blackburnian Warbler.*
- Cran. Skel.** *Dendroeca striata* (Forst.), Bd. *Black-poll Warbler.* (Stern. 2312 ✓)
- Cran. Skel.** *Dendroeca castanea* (Wils.), Bd. *Bay-breasted Warbler.* (Stern. 2270 ✓)
- Cran. Skel. Stern.** *Dendroeca pennsylvanica* (L.), Bd. *Chestnut-sided*
 319, ✓ 1347. ✓ 1847. ✓ *Warbler.* (1347 ✓)
- Cran. Skel.** *Dendroeca discolor* (V.), Bd. *Prairie Warbler.*
- Cran. Skel.** *Geothlypis trichas* (L.), Cab. *Maryland Yellow-throat.*
 311, ✓
 312, ✓
 313, ✓
 314, ✓
- Cran. Stern.** *Geothlypis macgillivrayi* (Aud.), Bd. *Macgillivray's Warbler.*
 1431, ✓ 1432, ✓
- Cran. Skel.** *Icteria virens* (L.), Bd. *Yellow-breasted Chat.*
 393, ✓
- Cran. Skel.** *Setophaga ruticilla* (L.), Sw. *Redstart.*
 329, ✓
 330, ✓
 331, ✓
 332, ✓

Family TANAGRIDÆ: *Tanagers.*

- Cran. Skel.** *Pyranga rubra* (L.), V. *Scarlet Tanager.*
 308, ✓
- Cran. Skel.** *Pyranga æstiva* (L.), V., var. *cooperi* (Ridg.), Cs. *Cooper's*
 1510, ✓ *Tanager.*
- Cran. Skel.** *Pyranga hepatica*, Sw. *Hepatic Tanager.*
 1497, ✓

Family HIRUNDINIDÆ: *Swallows.*

- 1499 ✓
Cran. Skel. Stern. *Hirundo horreorum*, Barton. *Barn Swallow.* (157 ✓)
 1449, ✓ 187, ✓ 1521, ✓
- Cran. Skel.** *Tachycineta bicolor* (V.), Cs. *White-bellied Swallow.*
 335, ✓ 101, ✓
 551, ✓
 1013, ✓
 1014, ✓

Cran. Skel. Petrochelidon lunifrons (Say), Cab. *Cliff Swallow; Eave Swallow.*
 333, ✓ 2404 ✓
 334. ✓

5/ Cran. Stern. Stelgidopteryx serripennis (Aud.), Bd. *Rough-winged Swallow.*
 1514. ✓ 1513. ✓

Cran. Skel. Progne purpurea (L.), Boie. *Purple Martin.*
 1621 ✓
 1622 ✓
 1623. ✓

Family AMPELIDÆ: Waxwings.

4/ Cran. Skel. Ampelis cedrorum (V.), Bd. *Cedar Bird; Cherry Bird.*
 32, ✓ 62, ✓
 65, ✓ 336. ✓

Family VIREONIDÆ: Greenlets.

Cran. Skel. Vireo olivaceus (L.), V. *Red-eyed Vireo.*
 337, ✓
 338, ✓
 339. ✓

2314 ✓ Cran. Stern. Vireo vicinior, Coues. *Gray Vireo.*
 1460. ✓ 1461. ✓

Family LANIIDÆ: Shrikes.

Cran. Stern. Collurio borealis (V.), Bd. *Great Northern Shrike; Butcher-bird.*
 1474. ✓

Family FRINGILLIDÆ: Finches.

5 Cran. Skel. Carpodacus purpureus (Gm.), Gr. *Purple Finch.*
 382, ✓
 1372. ✓

Cran. Skel. Stern. Carpodacus frontalis (Say), Gr. *Crimson-fronted Finch; House Finch.*
 1501. ✓ 1519. ✓ 1502. ✓

Cran. Skel. Loxia curvirostra, L., var. americana (Wils.), Cs. *Common Crossbill.*
 374. ✓

Cran. Skel. Chrysomitris tristis (L.), Bp. *American Goldfinch; Yellow-bird.*
 375, ✓ 1207. ✓
 376, ✓
 1376. ✓

Cran. Stern. Chrysomitris psaltria (Say), Bp. *Arkansas Goldfinch.*
 1493. ✓ 1494. ✓

1333 ✓
 1334 ✓ Cran. Stern. Passerculus savanna (Wils.), Bp. *Savannah Sparrow.*
 383, ✓ 1335. ✓
 384, ✓
 385. ✓

Cran. Skel. Melospiza palustris (Wils.), Bd. *Swamp Sparrow.*
 369, ✓ 2303 ✓
 370. ✓

Cran. Skel. Melospiza melodia (Wils.), Bd. *Song Sparrow.*
 392, ✓ 2130 ✓
 1379. ✓ 2289 ✓
 2201 ✓
 2202 ✓

com. Skel. Ster. *Cotyle riparia* (L) Boie. Bank Swallow
29: 2402^v, 1630^v

Stern.
1624^v

Gram. Stern. *Progne subis*, Baird. Purple Martin
2115^v

Gram. Stern. *Campelis garrulus* L. Bohemian war wing
2394^v 2396^v
2395^v

✓ Duerst Family, Fringillidae page 37

Gram. *Carpodacus Cassini*, Baird. Cassin's purple
2095^v finch.

Gram. Stern. *Leucosticte tephrocotis* Sw. Gray crowned
2401^v 2400^v finch

Gram. Stern. *Aegithus linaria* (L) Cab. Red Poll
2397^v 2399^v Linnet.

Gram. *Plectrophanes macrourus* Sawr. Microon's
684^v Lark Bunting

Gram. Stern. *Plectrophanes nivalis* (L) Meyer. Snow
409^v 2409^v Bunting
410^v

Gram. Stern. *Poecetes gramineus* (Gm.) Bd. Bay-
563^v 1666 winged Bunting.
564^v
565^v

431 *Poecetes gramineus* var. *confinis* (Gm.) Bd.
Western Grass Finch.

loan
2117

Zonotrichia leucophrys (Forst.) Sw. White
crowned sparrow

loan
2112

Chondestes grammaca (Say) Bp. Lark Finch

- Cran. Skel. Melospiza melodia (Wils.), Bd. var. fallax (Bd.), Ridg.
 976. ✓ *Gray Song-Sparrow.*
- Cran. Skel. Junco hyemalis (L.), Sel. *Snowbird.*
 386, 4. ✓ *(Stern. 2194)*
- 387, ✓
 388, ✓
 389. ✓
- Cran. Skel. Junco cinereus (Sw.), Cab., var. caniceps (Woodh.), Cs.
 1518. ✓ *Cinereous Snow Bird.*
- Cran. Skel. Spizella monticola (Gm.), Bd. *Tree Sparrow.*
 390, ✓ *2403 ✓*
 1378. ✓
- Cran. Skel. Spizella socialis (Wils.), Bp. *Chipping Sparrow.*
 381. ✓
- Cran. Skel. Spizella socialis (Wils.), Bp., var. arizonæ, Cs. *Arizona*
 1488. ✓ *Chipping Sparrow.*
- Cran. Stern. Spizella pusilla (Wils.), Bp. *Field Sparrow.* *(Skel. 2310)*
 380, ✓ 1448. ✓
- 2293 ✓
 2294 ✓ 1447. ✓
- Cran. Stern. Spizella pallida (Sw.), Bp. var. breweri (Cass.), Cs.
 1503, ✓ 1505. ✓ *Brewer's Sparrow.*
 1504. ✓
- Cran. Skel. Zonotrichia albicollis (Gm.), Bp. *White-throated Sparrow.*
 371, ✓ *(Stern. 2302)*
 372, ✓
 373, ✓
 1377. ✓
- Cran. Skel. Passerella iliaca (Merrem.), Sw. *Fox Sparrow.* *(Stern. 2263 ✓)*
 368. ✓
- 2262 ✓
 Cran. Stern. Calamospiza bicolor (Townsend), Bp. *Lark Bunting; White-*
 1486. ✓ 1487. ✓ *winged Blackbird.*
- 1610 ✓
 Cran. Skel. Euspiza americana (Gm.), Bp. *Black-throated Bunting.* *(Stern. 1639 ✓)*
 367. ✓
- 1636 ✓
 Cran. Skel. Stern. Goniaphea ludoviciana (L.), Bowdich. *Rose-*
 1345. ✓ 1136. ✓ 1346. ✓ *breasted Grosbeak.*
- 1638 ✓
 Cran. Stern. Goniaphea melanocephala (Sw.), ———. *Black-headed*
 1511. ✓ 1512. ✓ *Grosbeak.*
- 426 ✓
 427 ✓ 2110 ✓
 Cran. Skel. Cyanospiza cyanea (L.), Bd. *Indigo Bird.*
 391. ✓
- Cran. Stern. Cardinalis virginianus (Brisson), Bp. *Cardinal Redbird.*
 40, ✓ 1278. ✓
 360, ✓
 361, ✓
 362. ✓

- Cran. Skel.** *Pipilo erythrophthalmus* (L.), V. *Towhee Bunting*; *Che-wink*.
 363, ✓ 2280 ✓
 364, ✓
 365, ✓
 366, ✓
Cran. Skel. *Pipilo fuscus*, Sw. *Brown Towhee*; *Cañon Finch*.
 1489, ✓

Family ICTERIDÆ: *American Starlings*.

- Cran. Skel. Stern.** *Dolichonyx oryzivorus* (L.), Sw. *Bobolink*; *Reed-bird*; *Ricebird*.
 37, 79, ✓ 584, ✓ 1344, ✓
 394, ✓
 395, ✓
Cran. Skel. *Molothrus ater* (Gm.), Sw. *Cowbird*.
 396, ✓ 1325, ✓
Cran. Skel. *Agelæus phœniceus* (L.), V. *Red-winged Blackbird*.
 70, ✓ 117, ✓
 397, ✓
 398, ✓
 399, ✓
Skel. Stern. *Xanthocephalus icterocephalus* (Br.), Bd. *Yellow-headed Blackbird*.
 1492, ✓ 1479, ✓
Cran. Skel. *Sturnella magna* (L.), Sw. *Field-Lark*; *Meadow-Lark*.
 400, ✓ 14, ✓
 401, ✓
 402, ✓
Cran. Stern. *Sturnella magna* (L.), Sw. var. *neglecta* (Aud.), All. *Western Field-Lark*.
 1471, ✓
Cran. Skel. *Icterus baltimore* (L.), Daudin. *Baltimore Oriole*.
 403, ✓
Cran. Skel. *Icterus bullockii* (Sw.), Bp. *Bullock's Oriole*.
 1472, ✓ 2411 ✓
 1525, ✓
Cran. Skel. *Scolecophagus ferrugineus* (Gm.), Sw. *Rusty Grackle*.
 404, ✓ 809, ✓
 405, ✓
 406, ✓
Cran. Stern. *Scolecophagus cyanocephalus* (Magl.), Cab. *Blue-headed Grackle*.
 939, ✓ 1473, ✓
Cran. Skel. Stern. *Quiscalus purpureus* (Bartr.), Licht. *Purple Grackle*; *Crow Blackbird*.
 39, ✓ 824, ✓ 1279, ✓
 407, ✓
 408, ✓
 409, ✓

1613 ✓
 1614 ✓
 1615 ✓

1627 ✓

2118 ✓
 o/

Stern
 1628 ✓

Skil
1612 ✓

cran.	Skel.	Stem.	<i>Tyrannus verticalis</i> (Say) Arkansas
1642 ✓	1641 ✓	1646 ✓	Flycatcher
1643 ✓			
1644 ✓			
1645 ✓			
cran.	Skel.	Stem.	<i>Sayornis fuscus</i> (Sm) Bd. Pewee Pewit
2128 ✓	1752 ✓	2129 ✓	Phoebe bird.
2287 ✓			

Family CORVIDÆ: Crows.

Sub-Family *Corvinæ*: Ravens and Crows.

- 1568
Cran. Skel. *Corvus corax*, Linn. *Raven*.
 410, ✓
 707, ✓
 927, ✓
 1467, ✓
Cran. Skel. *Corvus cryptoleucus*, Couch. *White-necked Raven*.
 411, ✓
Cran. Skel. *Corvus americanus*, Aud. *Common Crow*.
 412, ✓ 133, ✓
 413, ✓
 838, ✓
Cran. Skel. *Corvus ossifragus*, Wils. *Fish Crow*.
 414, ✓
Cran. Skel. *Picicorvus columbianus* (Wils.), Bp. *Clarke's Crow*.
 926, ✓
 979, ✓
 1391, ✓
Cran. Skel. *Gymnokitta cyanocephala*, Maxim. *Blue Crow*.
 971, ✓

Sub-Family *Garrulinæ*: Jays.

- Cran. Skel.** *Pica melanoleuca*, V., var. *nuttalli* (Aud.), Cs. *Yellow-billed Magpie*. *Stern. 2102*
 1400, ✓
Cran. Skel. *Cyanurus cristatus* (L.), Sw. *Blue Jay*.
 415, ✓ 115, ✓
 416, ✓
 417, ✓
 418, ✓
Cran. Stern. *Aphelocoma floridana* (Bartr.), Cab., var. *Woodhousei*
 1469, ✓ (Bd.), All. *Woodhouse's Jay*.
Cran. Skel. *Perisoreus canadensis* (L.), Bp. *Canada Jay*.
 419, ✓

SUB-ORDER Clamatores.

Family TYRANNIDÆ: *American Flycatchers*.

- Cran. Skel. Stern.** *Tyrannus carolinensis* (L.), Bd. *Kingbird; Bee-*
 291, ✓ 1339, ✓ 1342, ✓ *Martin*.
 292, ✓
 1340, ✓
 1341, ✓
Cran. Skel. *Contopus virens* (L.), Cab. *Wood Pewee*.
 293, ✓
Cran. Skel. Stern. *Contopus virens* (L.), Cab., var. *richardsonii*
 1508, ✓ 1498, ✓ 1509, ✓ (Sw.), Cs. *Western Wood Pewee*.

ORDER **PICARIAE**: Picarian Birds.SUB-ORDER **CYPSELI**: Cypseliform Birds.Family CAPRIMULGIDÆ: *Goatsuckers*.

- Cran. Skel.** *Antrostomus vociferus* (Wils.), Bp. *Whippoorwill*; *Night-Jar*.
861. ✓

Family CYPSELIDÆ: *Swifts*.

- Cran. Skel.** *Panyptila saxatilis* (Woodh.), Cs. *White-throated Swift*.
1500. ✓

- Cran. Skel.** *Chætura pelasgia* (L.), Steph. *Chimney Swift*.
171. ✓

Family TROCHILIDÆ: *Humming-Birds*.

- Cran. Skel.** *Trochilus colubris*, L. *Ruby-throated Humming-Bird*.
290. ✓

- Cran. Stern.** *Trochilus alexandri*, Bourc. *Black-chinned Humming-Bird*.
1456. ✓ 1459. ✓
1457. ✓
1458. ✓

- Cran. Stern.** *Selasphorus rufus* (Gm.), Sw. *Rufous-backed Humming-Bird*.
1453. ✓ 1455. ✓
1454. ✓

2 2 3 3 ✓

- Cran. Stern.** *Selasphorus platycercus* (Sw.), Gld. *Broad-tailed Humming-Bird*.
1449. ✓ 1452. ✓
1450. ✓
1451. ✓

- Cran. Stern.** *Stellula calliope* (—), Gld. *Calliope Humming-Bird*.
1522. ✓

Family ALCIDINIDÆ: *Kingfishers*.

- Cran. Skel.** *Ceryle alcyon* (L.), Boie. *Belted Kingfisher*.
155. ✓

Family CUCULIDÆ: *Cuckoos*.

- Cran. Stern.** *Geococcyx californianus* (Less.), Bd. *Ground Cuckoo*; *Chaparral Cock*.
1466. ✓ 1464. ✓

- Cran. Skel.** *Coccyzus erythrophthalmus* (Wils.), Bd. *Black-billed Cuckoo*.
281. ✓ 2140. ✓

- Cran. Skel.** *Coccyzus americanus* (L.), Bp. *Yellow-billed Cuckoo*.
278. ✓
279. ✓
280. ✓

Family PICIDÆ: *Woodpeckers*.

- Cran. Skel.** *Hylotomus pileatus* (L.), Bd. *Pileated Woodpecker*; *Log-cock*.
621. ✓ 550. ✓
718. ✓

Bran.
1648 ✓
1649 ✓
1650 ✓

Skel. Stem.
1647 ✓ 1651 ✓

Chordeiles virginianus (Brisson) Raf.
var. *henryi* (Garrison) Allen. Western
Nighthawk.

Bran.
2121 ✓

Picus albolarvatus (Garr.) Baird. White-
headed woodpecker.

(Skeleton)
2275

bran.
2295

Stem.
2296

Centurus carolinus (L) Bp. Red-
bellied woodpecker

bran.
2116

Agndesmus torquatus (Wils.) Gs. Lewis
woodpecker

Insert fam. Psittacidae page 37

Insert Bubo maximus page 37

484 Cran. Skel. *Picus scalaris*, Wagl. var. ~~nuttalli~~ (Gamb.), Cs. ~~Nuttall's~~ *Ladder-back*
1400. Woodpecker.

Cran. Skel. *Picus villosus*, L. *Hairy Woodpecker*.
602, ✓
1370. ✓

Cran. Stern. *Picus villosus*, L., var. *harrisi* (Aud.), All. *Harris' Wood-*
1491. ✓ 1477. ✓ *pecker*.

Cran. Skel. *Picus pubescens*, L. *Downy Woodpecker*.
282, ✓ 2197. ✓
283. ✓

2131 Cran. Stern. *Picoides americanus*, Brehm., var. *dorsalis* (Bd.), All.
1475. ✓ *Striped-backed Woodpecker*.

1329 Cran. Skel. Stern. *Sphyrapicus varius* (L.), Bd. *Yellow-bellied*
1336. ✓ 811. ✓ 1276. ✓ *Woodpecker*.

2309 Cran. Stern. *Sphyrapicus thyroideus* (Cass.), Bd. *Brown-headed Wood-*
1397. ✓ *pecker*.

Cran. Skel. *Centurus uropygialis*, Bd. *Gila Woodpecker*.
1483. ✓

2 Cran. Skel. Stern. *Melanerpes erythrocephalus* (L.), Sw. *Red-headed*
284. ✓ 1106. ✓ 1338. ✓ *Woodpecker*.
285. ✓
1337. ✓

Cran. Skel. Stern. *Colaptes auratus* (L.), Sw. *Golden-winged Wood-*
286. ✓ 118. ✓ 1327. ✓ *pecker; Flicker*.
287. ✓
288. ✓
289. ✓

2079 Cran. Stern. *Colaptes mexicanus*, Sw. *Red-shafted Woodpecker*.
2164 ✓ 1470. ✓

ORDER Psittaci: Parrots.

Family ARIDE: *Parroquets*.

Cran. Skel. *Conurus carolinensis* (L.), Kuhl. *Carolina Parroquet*.
277. ✓

ORDER Raptores: Birds of Prey.

Family STRIGIDE: *Owls*.

Cran. Skel. *Strix flammea*, L., var. *americana* (Aud.), Cs. *Barn Owl*.
1351. ✓

Cran. Skel. *Bubo virginianus* (Gm.), Bp. *Great Horned Owl*.
270. ✓ 860. ✓
837. ✓ 2144. ✓

420 Cran. Skel. *Scops asio* (L.), Bp. *Screech Owl; Mottled Owl*.
274. ✓ 610. ✓

Cran. Skel. Stern. *Otus vulgaris* (L.), var. *wilsonianus* (Less.), All.
603. ✓ 1241. ✓ *Long-eared Owl*.

- Cran. Skel.** *Brachyotus palustris* (Bechst), Bp. *Short-eared Owl*.
 273. ✓ 591. ✓
 788. ✓
- Cran. Skel.** *Syrnium nebulosum* (Forst.), Gr. *Barred Owl*.
 272. ✓ 156. ✓
- Cran. Skel.** *Nyctea nivea* (Daud.), Gr. *Snowy Owl*.
 271. ✓
- Cran. Skel.** *Nyctale acadica* (Gm.), Bp. *Acadian Owl*; *Saw-whet Owl*.
 897. ✓
- Cran. Stern.** *Glaucidium passerinum* (L.), Bp., var. *californicum* (Scl.),
 1403. ✓ Ridg. *Pygmy Owl*.

Family FALCONIDÆ: *Diurnal Birds of Prey.*

- Cran. Skel.** *Circus cyaneus* (L.), Lacép., var. *hudsonius* (L.), Cs.
 268. ✓ *Marsh Hawk*; *Harrier*. *Stern.* 2392 ✓

- Cran. Skel. Stern.** *Accipiter fuscus* (Gm.), Bp. *Sharp-shinned*
 949. ✓ 604. ✓ 1295. ✓ *Hawk*; *Pigeon Hawk*.
 1294. ✓ 2461

- Cran. Skel.** *Accipiter cooperi*, Bp. *Cooper's Hawk*; *Chicken Hawk*.
 266. ✓ 800. ✓
 717. ✓

- Cran. Skel.** *Astur atricapillus* (Wils.), Bp. *Goshawk*. *Stern.* 2225 ✓

- Cran. Skel.** *Falco* (*Hiero-falco*) *gyrfalco* (Linn.), var. *islandicus* Sabine.
 922. ✓

- Cran. Stern.** *Falco mexicanus* (Licht.), var. *polyagrus*, Ridg. *Lanier*
 2230 ✓ 1386. ✓ *Falcon*.

- Cran. Skel.** *Falco communis Variorum*. *Peregrine Falcon*; *Duck Hawk*.
 923. ✓

- Cran. Skel.** *Falco columbarius*, L. *Pigeon Hawk*.
 924. ✓
 269. ✓

- Cran. Skel.** *Buteo borealis* (Gm.), V. *Red-tailed Buzzard*; *Hen Hawk*.
 263. ✓ 15. ✓ *Stern.* 2083 ✓
 264. ✓
 716. ✓

- Cran. Skel. Stern.** *Buteo borealis* (Gm.), V., var. *calurus* (Cass.),
 1485. ✓ 1369. ✓ 1462. ✓ Ridg. *Western Red-tailed Buzzard*.

- Cran. Skel.** *Buteo lineatus* (Gm.), Jard. *Red-shouldered Buzzard*.
 267. ✓
 708. ✓

- Cran. Stern.** *Buteo swainsoni*, Bp. *Swainson's Buzzard*.
 1685 ✓ 1385. ✓

Skel.
 2186 ✓

Crom.
2209 ✓

Elanus leucurus (V) Bp. White-tailed Kite.
Black-tailed Kite.

Crom. Stern. *Falco sparverius* L. Sparrow-hawk
1594. 1595 ✓
2108 ✓

Insert Fam Vulturidae page 37a

Insert Gyparobius papa page 37a

Insert all columbidae p. 37

Insert Families Phasianidae and
Numididae pp 37 & 38

Cran. Skel. Archibuteo lagopus (Brunn.), Gr., var. sancti-johannis
936, ✓ 2080 ✓ (Gm.), Ridg. *Rough-legged Buzzard*.

937, ✓

938, ✓

Cran. Stern. Asturina plagiata, Schlegel. *Gray Hawk*.
1463, ✓

Cran. Skel. Pandion haliaetus (L.), Savigny. *Fish Hawk; Osprey*.
135, ✓

Cran. Skel. Aquila chrysaetus, (L.). *Golden Eagle*.

891, ✓ 796, ✓

353 ✓ 1197, ✓ 2085 ✓

Cran. Skel. Haliaetus leucocephalus (L.), Savigny. *White-headed Eagle; Bald Eagle*.
836, ✓ 583, ✓

892, ✓

893, ✓

107 ✓ → Family CATHARTIDÆ: *American Vultures*.

Cran. Skel. Cathartes aura (L.), Illiger. *Turkey Buzzard*.
709, ✓ 138, ✓

ORDER **Columbæ**: Pigeons, etc.

Family COLUMBIDÆ: *Pigeons*.

Cran. Skel. Columba fasciata, Say. *Band-tailed Pigeon*.
1490, ✓

Cran. Skel. Ectopistes migratorius (L.), Sw. *Wild Pigeon*.
424, ✓ 958, ✓

Cran. Skel. Zenædura carolinensis (L.), Bp. *Carolina Dove*.
425, ✓ 114, ✓

426, ✓

427, ✓

428, ✓

ORDER **Gallinæ**: Gallinaceous Birds.

Family MELEAGRIDIDÆ: *Turkeys*.

Cran. Skel. Meleagris gallopavo, L. *Turkey*.
429, ✓ 141, ✓

430, ✓

Cran. Skel. Stern. Meleagris gallopavo, L., var. americana (Bartr.),
965, ✓ 1390, ✓ ~~1446~~ ✓ Cs. *Common Wild Turkey*.

966, ✓ 1445, ✓

1446, ✓ ~~1446~~ ✓

Family TETRAONIDÆ: *Grouse, etc.*

Sub-Family Tetraoninæ: *Grouse*.

Cran. Skel. Tetrao canadensis, L. *Canada Grouse; Spruce Partridge*.
435, ✓

Cran. Stern. Centrocercus urophasianus (Bp.), Sw. *Sage Cock; Cock-
of-the-plains*.
1426, ✓ 1427, ✓

1672, ✓

1673, ✓

1674, ✓

1446^a ✓

- Cran. Skel.** *Pediœetes phasianellus* (L.), Ell. *Northern Sharp-tailed Grouse*.
 436, ✓ 1428. ✓
 1429. ✓
- Cran. Skel.** *Cupidonia cupido* (L.), Bd. *Pinnated Grouse; Prairie Hen*.
 437, ✓ 140. ✓
 438, ✓
 439. ✓
- Cran. Skel.** *Bonasa umbellus* (L.), Steph. *Ruffed Grouse; Partridge; Pheasant*.
 126. ✓
- Cran. Skel.** *Lagopus albus* (Gm.), Aud. *Willow Ptarmigan*.
 940. ✓

Sub-Family *Odontophorinæ*: American Partridge.

- Cran. Skel. Stern.** *Ortyx virginianus* (L.), Bp. *Virginia Partridge; Quail; Bob-white*.
 31, ✓ 125. ✓ 1280. ✓
 77, ✓
 78, ✓
 440. ✓
- Cran. Skel.** *Oreortyx pictus* (Dougl.), Bd. *Plumed Partridge*.
 925. ✓
- Cran. Skel.** *Lophortyx californicus* (Shaw), Bp. *California Partridge*.
 973. ✓
- Cran. Skel. Stern.** *Cyrtonyx massena* (Less.), Gld. *Massena Partridge*.
 1392. ✓ 1389. ✓ 1393. ✓

ORDER **Grallatores**: Wading Birds.SUB-ORDER **LIMICOLÆ**: Shore Birds.Family **CHARADRIIDÆ**: Plover.Sub-Family *Charadriinæ*: True Plover.

- Cran. Skel.** *Charadrius fulvus*, Gm., var. *virginicus* (Borek.), Cs. *Golden Plover*.
 868, ✓ 867. ✓
 920. ✓
- Cran. Skel.** *Ægialitis vociferus* (L.), Cass. *Kildeer Plover*.
 606, ✓ 150. ✓
 607, ✓
 991. ✓
 2260. ✓

Family **RECURVIROSTRIDÆ**: Avocets.

- Cran. Stern.** *Recurvirostra americana*, Gm. *Avocet*.
 1387. ✓
 1597. ✓
- Cran. Skel.** *Himantopus nigricollis*, V. *Stilt*.
 2099. ✓ 1359. ✓

Family **PHALAROPODIDÆ**: Phalaropes.

- Cran. Stern.** *Steganopus wilsoni* (Sab.), Cs. *Wilson's Phalarope*.
 1435. ✓ 1437. ✓
 1436. ✓

1598.
 15199.
 1676.
 2100.

Skel.
 1596.

Skel.
 1640.

<p> <i>Oran.</i> 1681 ✓ 1682 ✓ 1683 ✓ </p>	<p> <i>Aegialitis asiatica</i> (Pall.) var. <i>montana</i> (Towns.) <i>lesnes</i>. Mountain Plover, </p>
<p> <i>Oran.</i> 2255 ✓ 2256 ✓ </p>	<p> <i>Stern.</i> <i>Hematopus palliatus</i>. Temmin. Oyster 2246 ✓ <i>catcher</i> </p>

<p> <i>Oran.</i> 2122 ✓ 2123 ✓ </p>	<p> <i>Stel.</i> 2120 ✓ </p>	<p> <i>Stern.</i> 2124 ✓ </p>	<p> <i>Lobipes hyperboreus</i> (L) Cur. Northern Phalarope </p>
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cran. Skel. Stem. *Tringa minutilla* V. Least Sand-
1617 ✓ 1616 ✓ 1620 ✓ piper

cran. *Tringa bairdii*, Cones. Baird's
1626 ✓ Sandpiper

cran. Stem. *Tringa bonapartei*, Dohl., white
1631 ✓ 1635 ✓ rumped Sand Piper

cran. Skel. Sem. *Totanus semipalmatus* Gm. Tattler
1607 ✓ 1605 ✓ 1606 ✓ Semipalmated Tattler

Stem. *Heteroscelus incanus* (Gm) Cones
2226 ✓ Wandering Tattler

Cran
1162

Tantalus loculator
Wood Shrike

Family SCOLOPACIDÆ: *Snipe, etc.*

- This is a skeleton of Gallinago melanoleuca from the Smithsonian Institution*
- Cran. Skel. Philohela minor (Gm.), Gr. *American Woodcock.*
449. ✓ 116. ✓
- Cran. Skel. Stern. Gallinago wilsoni (Temm.), Bp. *American Snipe;*
450. ✓ 151. ✓ 1292. ✓ *Wilson's Snipe.*
- 297 ✓ Cran. Skel. Stern. Ereunetes pusillus (L.), Cass. *Semi-palmated*
1481. ✓ 1480. ✓ 1482. ✓ *Sandpiper.*
- Cran. Skel. Tringa maculata V. *Pectoral Sandpiper.* (Stern. 1654 ✓)
1843. ✓ 862. ✓
- 653 ✓ Cran. Skel. Tringa alpina, L., var. americana, Cass. *American Dunlin.*
451. ✓
- Cran. Skel. Limosa fedoa (L.), Ord. *Great Marbled Godwit.*
456. ✓ 1652 ✓
- 1698 ✓ Cran. Skel. Totanus melanoleucus, Gm. *Greater Tell-tale.*
1293. ✓
- Cran. Skel. Totanus flavipes, Gm. *Yellow-Shanks.*
452. ✓ 102. ✓
- Cran. Skel. Totanus solitarius, Wils. *Solitary Tattler.*
453. ✓
- Cran. Skel. Tringoides macularius (L.), Gr. *Spotted Sandpiper.*
454. ✓
455. ✓
- Cran. Skel. Actiturus bartramius (Wils.), Bp. *Bartramian Sandpiper;* (Stern. 1661 ✓)
1425. ✓ *Upland Plover.*
- 1659 ✓
1660 ✓ Cran. Skel. Numenius longirostris, Wils. *Long-billed Curlew.*
458. ✓
459. ✓
1079. ✓
- Cran. Skel. Numenius hudsonicus, Lath. *Hudsonian Curlew.*
457. ✓
- Cran. Skel. Numenius borealis (Forst.), Lath. *Esquimaux Curlew.*
928. ✓
929. ✓

SUB-ORDER **HERIODIONES**: Herons and their allies.Family TANTALIDÆ: *Ibises, etc.*Sub-Family *Ibidinae*: True Ibises.

- Cran. Skel. Ibis falcinellus, Auct., var. ordii (Bp.), All. *Glossy Ibis.* (Stern. 2104 ✓)
448. ✓
- 2097 ✓ Cran. Skel. Ibis alba (L.), V. *White Ibis.*
447. ✓
~~1162. ✓~~
- Cran. Skel. Platalea ajaja, L. *Roseate Spoonbill.*
1016. ✓
1163. ✓

Family ARDEIDÆ: Herons.

Sub-Family Ardeine: True Herons.

- 2189 ✓ Cran. Skel. Ardea herodias, L. *Great Blue Heron.* *Stern. 2190 ✓*
 1012 ✓ 582. ✓
 Cran. Skel. Ardea leucogastra, Gm., var. leucopyrmyna (Licht.), Cs.
 442. ✓ *Louisiana Heron.*
 Cran. Skel. Stern. Ardea virescens, L. *Green Heron.*
 1014 ✓ 443, ✓ 511. 1281. ✓
 444. ✓
 445. ✓
 Cran. Skel. Nyctiardea grisea (L.), Steph., var. nævia (Bodd.), Allen.
 446. ✓ *Night Heron.*
 Cran. Skel. Botaurus minor (Gm.). *Bittern; Indian Hen.*
 1289. ✓

SUB-ORDER ALECTORIDES: Cranes, Rails, etc.

Family GRUIDÆ: Cranes.

- Cran. Skel. Grus canadensis (L.), Temm. *Brown Crane; Sandhill*
 441. ✓ 3078 ✓ *Crane.*
 1678 ✓
 4098 ✓

Family RALLIDÆ: Rails.

Sub-Family Ralline: True Rails.

- 460 ✓ Cran. Skel. Rallus virginianus, L. *Virginia Rail.*
 977. ✓
 Cran. Skel. Porzana carolina (L.), V. *Carolina Rail; Sora; Ortolan.*
 461. ✓
 466. ✓
 Cran. Skel. Fulica americana, Gm. *Coot.*
 462. ✓ 124. ✓
 463. ✓
 464. ✓

ORDER Lamellirotres: Anserine Birds.

Family ANATIDÆ: Swan, Geese, and Ducks.

Sub-Family Cygninæ: Swans.

- Cran. Skel. Cygnus americanus, Sharpless. *Whistling Swan.*
 465. ✓ 12. ✓ *Stern. 2389 ✓*
 901. ✓
 902. ✓

Sub-Family Anserinæ: Geese.

- Cran. Skel. Anser hyperboreus, Pall. *Snow Goose.*
 980. ✓
 Cran. Skel. Branta bernicla, L. *Brant Goose.*
 473. ✓ *Stern. 2188 ✓*
 474. ✓ 479. ✓
 2187 ✓

Leon
2227. ✓

Ardea egretta Em. Great white
Egret

Leon.
2076 ✓

Grus americanus (L) Ord. White crane;
whooping crane.

Skel.
2258 ✓

Rallus longirostris, Bodd. Slapper rail;
Salt water marsh hen

Insert *Cygnus olor* p. 38^a

Insert all *Anserinae* p. 38

Insert all Anatinae p. 387 38^a

Exam.

1691 ✓

1692 ✓

1693 ✓

1694 ✓

Chaulelasmus streperus (L) Gray.

Gadwall; Gray Duck.

- Cran. Skel. *Branta bernicla*, var. *nigricans* (L.), Cs. *Brant Goose*.
 941, ✓
 484a. ✓
- Cran. Skel. *Branta canadensis* (L.) *Canada Goose*; *Wild Goose*.
 470, ✓ 17. ✓ *Stern.*
 471, ✓ *1671 ✓*
 472, ✓
 1127. ✓
- Cran. Skel. *Branta canadensis* (L.), var. *hutchinsii* (Rich.), Cs. *Hutchins's Goose*.
 931, ✓
 932, ✓
 933. ✓

Sub-Family *Anatinae*: River Ducks.

- Cran. Skel. *Anas boschas*, L. *Mallard*.
 477, ✓ 1115. ✓
 478, ✓
 839 ✓ ~~889.~~
- Cran. Skel. *Anas obscura*, Gm. *Dusky Duck*.
 479. ✓
- Cran. Stern. *Dafila acuta* (L.), Jenyns. *Pintail*; *Sprigtail*.
 480, ✓ 1284. ✓ *Skel.*
 481. ✓ *1112 ✓*
- Cran. Skel. *Mareca americana* (Gm.), Steph. *American Widgeon*;
 486, ✓ 1114. ✓ *Baldpate*.
 487, ✓
 488, ✓
 935. ✓
- Cran. Skel. *Querquedula carolinensis* (Gm.). *Green-winged Teal*.
 482, ✓ 1117. ✓
 483. ✓
- Cran. Skel. *Querquedula discors* (L.), Steph. *Blue-winged Teal*.
 934. ✓ 791
- Cran. Stern. *Querquedula cyanoptera* (V.), Cass. *Cinnamon Teal*.
 1668 ✓
 2106 ✓
 119 ✓
 1388. ✓
- Cran. Skel. *Spatula clypeata* (L.), Boie. *Shoveller*.
 484, ✓ 1122. ✓ *Stern.*
 485, ✓ *1285 ✓*
 942, ✓
 943. ✓
- Cran. Skel. *Aix sponsa* (L.), Boie. *Summer Duck*; *Wood Duck*.
 489, ✓ 109. ✓
 490, ✓
 491. ✓

Sub-Family *Fuligulinae* : Sea Ducks.

- Cran. Skel.** *Fuligula marila* (L.), Steph. *Greater Blackhead*.
492. ✓
- Cran. Skel.** *Fuligula affinis*, Eyton. *Lesser Blackhead*.
493, ✓ 1124. ✓
494, ✓
495. ✓
- Cran. Skel.** *Fuligula collaris* (Donovan), Bp. *Ring-necked Duck*.
496, ✓ 2193 ✓
497, ✓
498. ✓
- Cran. Skel.** *Fuligula ferina* (L.), Sw. var. *americana* (Eyton), Cs.
499, ✓ 1123. ✓ *Red-head; Pochard*.
500, ✓
946, ✓
947. ✓
- Cran. Skel.** *Fuligula vallisneria* (Wils.), Steph. *Canvas-back*.
501, ✓ 1125. ✓
502, ✓
503, ✓
504. ✓
- Cran. Skel. Stern.** *Bucephala clangula* (L.), Gr. *Golden-eyed Duck*.
505, ✓ 1128. ✓ 1468. ✓
506, ✓ 1553 ✓
507, ✓
508. ✓
- Cran. Skel.** *Bucephala albeola* (L.), Bd. *Buffle-headed Duck*.
509, ✓ 129. ✓
510, ✓
511, ✓
512. ✓
- Cran. Skel.** *Harelda glacialis* (L.), Leach. *Long-tailed Duck*.
514, ✓ 1119. ✓
515, ✓
918. ✓
- Cran. Skel.** *Histrionicus torquatus* (L.), Bp. *Harlequin Duck*.
513. ✓
- Cran. Skel.** *Somateria spectabilis* (L.), Leach. *King Eider*.
917. ✓
- Cran. Skel.** *Edemia fusca* (L.), Sw. (? var. *velvetina*, Cass). *Velvet*
628, ✓ 627. ✓ *Scoter*.
1132. ✓
- Cran. Skel.** *Edemia perspicillata* (L.), Fleming. *Surf Duck*.
894. ✓

Loan.
1695 ✓
1696 ✓

Stern.
1697 ✓

Pucephala islandica (Linn) Bd.
Barrow's Golden-eye.

Insect Family Phoenicopteridae p 36^a

Oran
1699 ✓
1700 ✓

Stern
1701 ✓

Graculus dilophus (Sw.) Gray.
Double-crested Cormorant.

Stern. 2101. *Larus delawarensis* var. *Californicus* (Lawr.) Coues. California Gull.

Cran. Skel. *Erismatura rubida* (Wils.), Bp. *Ruddy Duck*.
 516, ✓ 1111. ✓
 517 → 617. ✓

Sub-Family *Merginæ*: Mergansers.

Cran. Skel. Stern. *Mergus merganser*, L. *Merganser*; *Goosander*.
 614, ✓ 8. ✓ 1286.

840. ✓ 2009 ✓
 Cran. Skel. *Mergus serrator*, L. *Red-breasted Merganser*.
 2391 ✓ 1130. ✓ ^{Stern.} 2380 ✓

Cran. Skel. *Mergus cucullatus*, L. *Hooded Merganser*.
 518, ✓ 1118. ✓
 519. ✓

ORDER **Steganopodes**: Totipalmate Birds.

Family PELECANIDÆ: Pelicans.

Cran. Skel. *Pelecanus trachyrhynchus*, Lath. *White Pelican*.
 520, ✓ ^{Stern.} 1690 ✓
 1076. ✓ 2099 ✓

1689 ✓
 2092 ✓
 Cran. Skel. *Pelecanus fuscus*, L. *Brown Pelican*.
 895, ✓
 1037. ✓

Family PHALACROCORACIDÆ: Cormorants.

Cran. Skel. *Graculus carbo* (L.), Gray. *Common Cormorant*; *Shag*.
 521. ✓

Cran. Stern. *Graculus bicristatus* (Pall.), Bd. *Red-faced Cormorant*.
 1287. ✓

Cran. Skel. *Plotus anhinga*, L. *Anhinga*; *Darter*.
 522. ✓

ORDER **Longipennes**: Long-winged Swimmers.

Family LARIDÆ: Gulls, Terns, etc.

Sub-Family *Lestrudinæ*: Jaegers, or Skua Gulls.

Cran. Skel. *Stercorarius parasiticus* (Brunn.), Gray. *Richardson's Jaeger*.
 916. ✓

Sub-Family *Larinæ*: True Gulls.

Cran. Skel. *Larus glaucescens*, Licht. *Glaucous-winged Gull*.
 900 ✓ 1246. ✓

1657 ✓
 Cran. Skel. *Larus argentatus*, Brunn. *Herring Gull*; *Common Gull*.
 1055. ✓ 826. ✓ ^{Stern.} 1658 ✓

Cran. Skel. *Larus delawarensis*, Ord. *Ring-billed Gull*.
 153. ✓

Cran. Stern. *Larus tridactylus*, L. *Kittewake*.
 1248. ✓

Cran. Skel. *Larus philadelphia* (Ord.), Cs. *Bonaparte's Gull*.
 525, ✓ 2519

899. ✓

^{ster} 2529
 Cran. Skel. *Larus franklini*, Rich. *Franklin's Ross Gull*.
 1625 ✓

Sterna
1656 ✓
2103 ✓

Sub-Family *Sterninae*: Terns.

Cran. Skel. Hydrochelidon fissipes (L.), Gray. *Black Tern.*
1654 ✓ 173. ✓
2105 ✓ 2125 ✓

Family PROCELLARIIDÆ: Petrels.

Sub-Family *Diomedinae*: Albatrosses.

Cran. Skel. Diomedea nigripes, Aud. *Black-footed Albatross.*
523. ✓

Sub-Family *Procellariinae*: True Petrels.

Cran. Skel. Fregetta grallaria (V.), Bp. *White-bellied Petrel.*
524. ✓

ORDER **Pygopodes**: Diving Birds.

Family COLYMBIDÆ: Loons.

Cran. Skel. Colymbus torquatus, Brunn. *Loon; Great Northern Diver.*
611. ✓ 2522

Cran. Skel. Colymbus arcticus, L. *Black-throated Diver.*
944. ✓

Cran. Skel. Colymbus arcticus, L., var. pacificus (Lawr.), Cs. *Pacific Diver.*
526. ✓

Cran. Skel. Colymbus septentrionalis, L. *Red-throated Diver.*
527. ✓ ~~2522~~

Family PODICIPIDÆ: Grebes.

Cran. Skel. Podiceps griseigena (Bodd.), Gray, var. holbüllii (Reinh.), Cs. *Red-necked Grebe.*
919 ✓

Cran. Skel. Podiceps cornutus (Gm.), Lath. *Horned Grebe.*
1121. ✓ 1120. ✓

Cran. Skel. Podilymbus podiceps (L.), Lawr. *Pied-billed Dabchick.*
720. ✓

Family ALCIDÆ: Auks.

Cran. Stern. Phalaris psittacula (Pall.), Temm. *Paroquet Auk.*
1250. ✓

Cran. Stern. Simorhynchus cristatellus (Pall.), Merrem. *Crested Auk.*
1251. ✓

Cran. Stern. Simorhynchus camtschaticus (Lepech.), Schl. *Whiskered Auk.*
1249. ✓

Cran. Skel. Uria, sp.
1247. ✓

Insert Sub Class *Ratitae*

Cran. Skel. Stern. *Sterna anglica*, Montagu. Bull-billed Tern. Marsh Tern.

2248 ✓
2249 ✓
2250 ✓
2459 ✓
Skel. 2247 ✓
Stern. 2251 ✓
Stern. 2245 ✓

Sterna regia. Gambel. Royal Tern.

Cran. Skel. Stern. *Sterna hirundo* L. Common Tern; Sea Swallow.

1702 ✓
2252 ✓
2253 ✓
Skel. 1662 ✓
Stern. 2254 ✓

Cran. Skel. Stern. *Sterna forsteri*, Nutt. Forster's Tern.

1602 ✓
1603 ✓
1604 ✓
2114 ✓
Skel. 1600 ✓
Stern. 1601 ✓

Sub Fam *Rhynchopsinae*

Cran. Skel. *Rhynchops nigra* L. Black Skimmer

2476
2477
2478
Skel. 2257 ✓

Cran. Stern. *Podiceps occidentalis* Saww. Western Grebe

2109 ✓
Stern. 2090 ✓

Order Raptores ←
Fam. Cathartidae

372

Orn. Skel
2469 *Cyporhynchus papa*

Fam. Vulturidae

Orn. Skel

2460 *Neophron percnopterus*

Family Strigidae

skel

2499 *Bubo maximus*

Great Owl

LIST OF CRANIA AND SKELETONS OF FOREIGN AND DOMESTIC BIRDS.

SUB-CLASS *Carinatae*: Carinate Birds.

ORDER *Passeres*: Passerine Birds.

Family FRINGILLIDÆ: Finches, etc.

- Cran. Skel.** *Fringilla canaria*, Linn. *Canary Bird*.
 377, ✓ 593. ✓ *Stern*
 378, ✓ *1277 ✓*
 379, ✓
 1010. ✓
- Cran. Skel.** *Pyrrhula vulgaris*, Cuv. *Bulfinch*.
 1101. ✓
- Cran. Skel.** *Carduelis elegans*, Bp. *Goldfinch*.
 1110. ✓

ORDER *Psittaci*: Parrots.

Family PSITTACIDÆ: Typical Parrots.

- Cran. Skel.** *Psittacus erythacus*, Linn. *Red-tailed Parrot*.
 275. ✓
- Cran. Skel.** *Chrysotis ochrocephala* (Gm.). *Yellow-fronted Parrot*.
 276. ✓

ORDER *Columbæ*: Pigeons, etc.

Family COLUMBIDÆ: Typical Pigeons.

- Cran. Skel.** *Columba liria* (domestica), Linn. *Common Pigeon*.
 420, ✓ *18 ✓*
 421, ✓
 422, ✓
 423. ✓

ORDER *Gallinæ*: Gallinaceous Birds.

Family PHASIANIDÆ: Pheasants.

- Cran. Skel.** *Pavo cristatus*, Linn. *Peacock*.
 586. ✓ 1044. ✓
- Cran. Skel.** *Gallus bankivi* (var.), Temm. *Domestic Fowl*.
 88, 41, ✓ *38*
 431, ✓ 1365. ✓
 432, ✓
 433. ✓

Family NUMIDIDÆ: Guinea Fowls.

- Cran. Skel. Numida meleagris, Linn. *Guinea Fowl.*
434. ✓ 27. ✓

ORDER Lamellirostres: Anserine Birds.

Family ANATIDÆ: Swans, Geese, etc.

Sub-Family Anserine: Geese.

- Cran. Skel. Anser ferus (domesticus), Linn. *Common Goose.*
466, ✓
467, ✓
468, ✓
469. ✓
- Cran. Skel. Anser cygnoides, Linn. *Swan Goose.*
149. ✓

Sub-Family Anatine: River Ducks.

- Cran. Skel. Anas boschas (domesticus), Linn. *Common Duck.*
97, ✓
98, ✓
475, ✓
476. ✓
- Stem.*
1282 ✓
1283 ✓

SUB-CLASS Ratitæ: Struthious Birds.

ORDER Struthionēs: Struthious Birds.

Family STRUTHIONIDÆ: Ostrich.

- Cran. Skel. Struthio camelus, Linn. *Ostrich.*
1438. ✓

Family CASUARIIDÆ: Emeus, etc.

Sub-Family Dromaine: Emeus.

- Cran. Skel. Dromæus novæ-hollandiæ, Lath. *Common Emeus.*
1459. ✓

Sub-family Cygminae
Typical Swans

Exam. Skel. Stern. *Cygnus olor* L. European Swan
2419 ✓ 1586 ✓

Skel.
1051 ✓

Castor moschata, Musk-Duck

Skel
2498

Family Phoenicopteridae
Phoenicopterus antiquorum
Flamingo

Monstrosities of Birds

158 ✓	643 ✓	912 ✓	1074 ✓	1264 ✓	1917 ✓
578 ✓	842 ✓	960 ✓	1108 1139 ✓	1354 ✓	2239 ✓
618 ✓	855 ✓	1020 ✓	1179 1180 1242 ✓	1556 ✓	2386 ✓ 2456

Miscellaneous

7 ✓	137 ✓	1116 ✓	1199 ✓	2516
119 ✓	143 ✓	1126 ✓	1268 ✓	2577
127 ✓	1039 ✓	1129 ✓	1415 ✓	2518
136 ✓	1113 ✓	1131 ✓	2416	
			2417	
			2425	
			2464	
			2513	
			2512	

594
1015
1016
1017
1030
1032
1033
1034

Order Trachystomata
Family Sirenidae (The Sirens)
Siren lacertina, Linn. Mud Eel or Siren

Skel.
1322 ✓

Order Proteida
Family Proteidae (The Mud-puppies)

Skel. *Necturus lateralis*, Say, membrachus, Mud-puppy,
1922 ✓ Water-dog, Dogfish.

Order Caduceibranchiata

Cran. Skel. Family Menopomidae (The Hellbenders)
1935, 160 ✓ *Menopoma allegheniense*, Harlan. Alleghany Hell-Bender. Big
1924 ✓ water lizard
1503 *Siboidia ussua* Great Salamander

Family Amblystomidae (The Big Salamanders)

Cran. Skel. *Amblystoma macrotum*, Bd. Spotted Salamander
964 ✓ 857 ✓
963 ✓

Skel. *Amblystoma tigrinum*, Green, Axolotl. Tiger Salamander
679 ✓

ORDER Urodela.

Family PLETHEDONTIDÆ: Salamanders, etc.

(2019) Cran. Skel. *Plethodon glutinosus*, Green. Salamander. 915 ✓

Cran. Skel. *Spelerpes ruber ruber* (Daudin), Red Triton. 549 ✓

2005 ✓

The of
viscid Salamander
loop

Family Desmognathidae (The Desmognaths)

Cran. *Desmognathus fusca fusca* (Raf) Cope. Dusky Salamander
2052 ✓
2057 ✓

Family Pleurodelidae (The Newts)

Skel. *Diemyctylus torosus*. Eschl. Western spotted Newt or
2046 ✓ Ewet

Cran. *Diemyctylus ornatus viridescens* (Raf) Cope. Spotted
1993 ✓ Triton, Newt; Ewet; Eft.
2003 ✓

Skel. *Bufo halophilus*, Baird.
2179 ✓

Skel. *Bufo columbiensis*, Baird. The Columbian Toad.
2172 ✓

Skel. *Amblystoma punctatum*. Linn. Spotted Salamander
2424

LIST OF CRANIA AND SKELETONS OF NORTH AMERICAN BATRACHIA AND REPTILIA.

NOTE.—The classification and nomenclature adopted are according to Prof. Edward D. Cope, in his "*Check List of North American Batrachia and Reptilia*," Bull. U. S. Nat. Mus. No. 1. *(Constantly added)*

CLASS BATRACHIA.

ORDER Anura.

~~Sub-Order RANIFORMIA.~~

~~Family RANIDÆ: Frogs.~~

- ~~Cran. Skel. Rana halerina halerina, Hall. Gold-striped Frog; Stud -6- Frog.~~
~~Cran. Skel. Rana palustris, Le Conte. Yellow-legged Frog; Marsh Ho7. 884. Frog.~~
~~Cran. Skel. Rana pipiens (Linn.), Holbrook. Bull Frog. 60.~~

~~SUB-ORDER FIRMISTERNIA.~~

~~Family ENGYSTOMIDÆ.~~

- ~~Cran. Skel. Engystoma carolinense, Holbrook. Chestnut-colored Frog. 1265. 90.~~

~~SUB-ORDER BUFONIFORMIA.~~

~~Family BUFONIDÆ: Toads.~~

- ~~Cran. Skel. Bufo microscaphus, Cope. Western Toad. Small Spade Foot 1541. 1401. ✓~~
~~Cran. Skel. Bufo lentiginosus frontosus, Cope. (Shaw) 1532. 1531. ✓~~
~~Cran. Skel. Bufo lentiginosus cognatus (Say), Cope 1539. 1538. ✓~~
~~Cran. Skel. Bufo lentiginosus americanus (Le Conte), American Toad. 80. ✓~~
~~Cran. Skel. Bufo lentiginosus lentiginosus, var. (Latr.) Red-signed 1943. 1102. ✓~~
~~Cran. Skel. Bufo quercicus, Holbrook. Oak Toad. 1981. 1232. ✓~~

~~SUB-ORDER FIRMISTERNIA.~~

~~Family ENGYSTOMIDÆ.~~

- ~~Cran. Skel. Engystoma carolinense, Holbrook. Chestnut-colored Frog. 1265. 93. ✓~~

~~SUB-ORDER ARCIFERA.~~

~~Family HYLIDÆ: Tree Toads. Frogs~~

- ~~Cran. Skel. Acris gryllus gryllus (Holbrook), Gray. Cricket Frog. 167. ✓~~

Southern

SUB-ORDER RANIFORMIA.

(The) Family RANIDÆ: Frogs. (Kalm) Cope

- Cran. Skel. Rana halecina halecina, Hall. Gold-striped Frog; Shad
6. ✓ Frog.
- Cran. Skel. Rana palustris, Le Conte. Yellow-legged Frog; Marsh
1107. ✓ 884. ✓ Frog. Pickerel Frog.
- Cran. Skel. Rana pipiens (Linn.), Holbrook. Bull Frog.
1990. ✓ 60. ✓ cateshiana, Shaw.
- 1923 ✓

Skel. Rana temporaria sylvatica (Lee) Cope
2207 ✓ Swamp Frog.

Skel. Rana punctosa, Baird
2180 ✓

CLASS REPTILIA.

ORDER Ophidia: Serpents.

SUB-ORDER SOLENOGLYPHA.

Family CROTALIDÆ: Rattlesnakes, etc.

- Cran. Skel. Crotalus horridus, Linn. Banded Rattlesnake; Northern
545. ✓ 1968 ✓ Rattlesnake.
615. ✓

Cran. Skel. Crotalus adamanteus adamanteus (Beauv.), Bd. and Gird. Cope
1582. ✓ 700. ✓ ~~Gird.~~ Diamond Rattlesnake.

Cran. Skel. Crotalus adamanteus atrox (Beauv.), (Bd. and Gird.) Cope
993. ✓ 1758 ✓ ~~Sonora Rattlesnake.~~

1787. ✓ 1979 ✓

Cran. Skel. crotalus lucifer, Baird & Girard
2174. ✓ California Rattlesnake

Cran. Skel. crotalus confluentus, Say. Common
2043 ✓ 1980 ✓ " Western Rattlesnake.

Cran. Skel. crotalus molossus. Bd &
2211 ✓ Girard Rattlesnake.

Skel. 2039 ✓ *Hyla carolinensis*, Pennant. Carolina Tree Toad

Skel. 2051 ✓ *Hyla versicolor*, Leconte. Common Tree Toad

Cran. Skel. 1952 ✓ 1953 ✓ 1955 ✓ *Candisora miliaria*, Linn. Sand Rattler. Small spotted Rattlesnake.

Cran. Skel. 2215 ✓ 1992 ✓ *Candisora tergemina*, Say. Black Rattle. Snake: Prairie Rattlesnake: Massasauga.

Skel. 1925 ✓ *Ancistrodon piscivorus piscivorus* (Lac) Cope. Water Moccasin.

Cran. Skel. 1003 ✓ 1959 ✓ *Ancistrodon contortrix*, Bd. and Gird. Moccasin.

SUB-ORDER PROTEROGLYPHA.

Family ELAPIDE: ^{The} Vipers.

Cran. Skel. 1319. ✓ 90. ✓ *Elaps fulvus fulvus* (Linn.), Bd. and Gird. ^{Harlequin} ^{Cope} Snake. ^{Bead} Snake

1581 ✓

Cran. Skel. 1976 ✓ 1956 ✓ 1972 ✓ *Elaps fulvus tener* (Baird & Girard) Cope. Harlequin Snake.

Continued on next page, (40^b)

(40 b) 72

SUB-ORDER ASINEA.
Family COLUBRIDÆ: Colubrine Serpents.

The

Skel. 1941 ✓ *Carphophiops helenae*, Kennicott.

Cran. 859. ✓ Skel. 94. ✓ *Carphophiops amoenus*, Say. Red Snake. Ground Snake. Worm Snake. 2029 ✓

Skel. 1985. ✓ *Haldea striatula*, Linn. Brown Snake

Skel. 2036 ✓ *Tantilla gracilis*, Baird & Girard.

Cran. Skel. *Tantilla nigriceps*, Kenn. 1020. ✓

Cran. 2041 ✓ Skel. 1946 ✓ *Tarancia abacura*, Holbrook. Red bellied Horn Snake.

Skel. 2038 ✓ *Oemophora coccinea*, Blumenbach. Scarlet Snake.

Skel. 1733 ✓ 1963 ✓ *Rhinodrilus lecontei*, Baird & Girard. Le Conte's Snake

Skel. 1945 ✓ *Ophibolus doliatus coccineus* (Schlegel) Cope. Ring Snake

Cran. 1091. ✓ Skel. 83 ✓ *Ophibolus doliatus gentilis* (Linn.) (Bd. and Grd.) Cope King Snake

Cran. Skel. *Ophibolus doliatus doliatus* (Linn.) 1038. ✓ Cope: Red Snake: Corn Snake.

Skel. 1961 ✓ *Ophibolus doliatus triangulus* (Boie) Cope. Milk Snake: House Snake: Spotted Adder: Thunder & lightning Snake: Chicken Snake.

Cran. 2021 ✓ Skel. 994. ✓ *Ophibolus getulus boylii* (Linn.) (Bd. and Grd.) Boyle's Cope Chain Snake. 2012 ✓

9 Cran. 1090. ✓ Skel. 1974 ✓ *Ophibolus getulus sayi* (Holbrook) Say's Chain Snake. Cope

Cran. Skel. *Ophibolus getulus getulus* (Linn.), Bd. and Grd. 701. ✓ Thunder Snake; King Snake. 1947 ✓ 1984 ✓ Cope

Skel. 2018 ✓ *Ophibolus polyzonus*

Cran. 1414. ✓ Skel. 706. ✓ 831. ✓ *Diadophis punctatus punctatus* (Linn.), Bd. and Grd. Cope Ring-necked Snake. 2014 ✓

(Continued on next page)

Cran. Skel. Diadophis punctatus amabilis (Linn.) (Bd. and Grd.) Cope
851. ✓ King necked Snake
1970 ✓

Skel. Hypsiglena schlorhyncha, Cope
2044 ✓

Skel. Sibon annulatum septentrionale (Kennicott) Cope
1964 ✓

1942 ✓ Ophiothya grahamiae, Baird & Girard. Graham's Snake.

Cran. Skel. Cyclophis vernalis, De Kay. Green Snake.

548, ✓ 590. ✓

1231, ✓ 2025 ✓

1970 ✓ 1971 ✓ Cyclophis aestivus, Linn. Green Snake.

1089 ✓ Coluber emoryi, Baird & Girard. Emory's Snake.
1969 ✓

Cran. Skel. Coluber vulpinus, Bd. and Grd. Fox Snake.

743. ✓

1931 ✓

1958 ✓ Coluber quadrivittatus, Holbrook. Chicken Snake
2010 ✓

Cran. Skel. Coluber obsoletus obsoletus (Say), Kenn. Pilot Black Snake; Racer.

1018. ✓

2017 ✓

Cope /

Cran. Skel. Coluber obsoletus confinis (Say) (Bd. and Grd.) Cope
1087 ✓ Pilot Snake. Racer.

1928 ✓

Cran. Skel. Coluber guttatus, Linn. Chicken Snake. Spotted Racer

1233. ✓

1948 ✓

2216 ✓ 2011 ✓

1988 ✓ Pityophis sayi sayi (Schlegel) Cope. Pine Snake. King Snake

Cran. Skel. Pityophis sayi mexicanus, Dum. and Bib. Gopher Snake.

1222. ✓ 1221. ✓

Cran. Skel. Pityophis sayi bellona, Bd. and Grd. Bull Snake.

980. ✓ 1223. ✓

2047, ✓ 1536. ✓

1999 ✓

Cran. Skel. Bascanium constrictor (Linn.), Bd. and Grd. Black Snake. Chaser

53. ✓

1944 ✓ Bascanium flagelliforme flagelliforme (Caterley) Cope
whip. Snake. Coach Whip Snake.

Cran. Skel. Bascanium flagelliforme testaceum (Say.), Bd. and Grd. Cope

702. ✓ 1759 ✓

982. ✓ 1991 ✓

2081 ✓

Cran. Skel. Bascanium tæniatum laterale, (Hall) Cope

1530. ✓

Cran. Skel. Bascanium tæniatum tæniatum, Hall.

1529. ✓

1934 ✓

Cran. Skel. Eutania saurita (Linn.), Bd. and Girard. Ribbon Snake. Linn.

705. ✓

Swift Garter Snake

2002 ✓

40
44
Cran. Skel. Eutænia faireyi, Bd. and Gird. Fairie's Garter Snake.
995. ✓ 1088. ✓
2008 ✓

1994 ✓ Eutænia proxima, Say. Say's Garter Snake.

2022 ✓ Eutænia ^{ae}radix, Baird + Girard. Hoag's Garter Snake
2023 ✓

2173 ✓ Eutænia radix trivirgii, Co + Var. Trivirgins Garter Snake

1973 ✓ Eutænia macrostemma megalops. (Kern) Cope

Cran. Skel. Eutænia mareiana, Bd. and Gird. Marcy's Garter Snake.

547. ✓ 84. ✓

1233. ✓ 2013 ✓

2048 ✓

Cran. Skel. Eutænia vagrans vagrans (Bd. and Gird.) Common Western Garter Snake. Cope

1528. ✓ 1527. ✓

2026 ✓ 2024 ✓

Cran. Skel. Eutænia elegans, Bd. and Gird. Elegant Garter Snake.

1229. ✓

1998 ✓ Eutænia ornata, Baird

2027 ✓

Cran. Skel. Eutænia sirtalis dorsalis, Bd. and Gird. Eastern Garter Snake.

1318. ✓ 85. ✓

Cran. Skel. Eutænia sirtalis ordinata (Linn.), Bd. and Gird.

1533. ✓ 1230. ✓

Cran. Skel. Eutænia sirtalis sirtalis (Linn.), Bd. and Gird.

1228. ✓ 42. ✓

546. ✓ 1227. ✓ (200)

Cran. Skel. Eutænia sirtalis parietalis (Linn.), Say.

911. ✓

1898 ✓ Eutænia sirtalis obscura (Linn) Cope. Drunken Garter Snake
Black Bark Garter Snake: ~~Linn~~

2030 ✓ Eutænia sirtalis pikeringii (Bd + Gir) Cope, Pickering's Garter Snake

1939 ✓ Eutænia cooperii. Kennicott, Cooper's Garter Snake

1989 ✓ Storeria occipitomaculata, Storer, Redbellied Snake

2053. 2033 ✓ Storeria dekayi, Holbrook. Dekay's Brown Snake.

Cran. Skel. Tropidonotus grahamii, Bd. and Gird. Graham's Water Snake.

858. ✓

Cran. Skel. Tropidonotus leberis (Linn.), Bd. and Gird. Yellow-bellied Snake. Leather Snake. 27 07

2034 ✓ 598. ✓

1997 ✓

1950 ✓ Tropidonotus fasciatus Linn. Banded Water Snake.
Big Snake.

1962 ✓

1977 ✓

Cran. Skel. Tropidonotus sipedon sipedon (Linn.), Bd. and Gird. Water Snake. Water Adder. Water Moccasin. Cope

629. ✓ 830. ✓

1949 ✓ 1558. ✓

Cran. Skel. Tropidonotus sipedon woodhouseii (Linn.), Bd. and Gird. Woodhouse's Snake. Cope

1214. ✓

2066 ✓ Tropidonotus sipedon erythrogaster (Shaw) Cope.
Redbellied Water Snake

Cran. Skel. Heterodon platyrhinus (Lata.), Bd. and Gird. Western

1916 ✓ 703. ✓

1954 ✓ 1086. ✓

1957 ✓

Noze Snake.

(Latreille)

Cran. Skel.

1926. Heterodon platychirrus atrinodes (Baird & Girard) Cope. Hog-nose Snake: Spreading adder

2016. Heterodon platychirrus niger (Baird & Girard) Janow. Black Viper: Black Adder.

1583. 1587. Heterodon simus simus (Linn) Cope. Hog-nosed Snake
2178.

Cran. Skel. Heterodon simus nasicus, (Bd. and Girard) Hog-nosed Snake; Sand Viper. Cope

1226. 768. 2000. 1760. 1986. Western Spreading Adder.

Insert Family Boidae Page 45

ORDER Lacertilia. (The Lizards)

Sub-Order Ophrosauri

Family Amphisbaenidae

1910. Rhinciera floridana, Cope.
1995.

ORDER PLEURODONTA.

Sub-Order Leptoglossa

Family SCINCIDÆ: Skinks.

Cran. Skel. Eumeces obsoletus, Bd. and Gir. Pale Lizard.
1103. 962.

Cran. Skel. Eumeces guttulatus, Hallowell. Spotted Lizard or Skink.
998. 999.

2181. Eumeces skiltonianus, Bd & Gir. Skilton's Skink.

Cran. Skel. Eumeces fasciatus, Linn. Striped Lizard; Blue-tailed Skink.
876. 1215.

1216. 1271. 1272. 1899. 1273. 1274.

2028.

Family TEIDÆ.

Cran. Skel. Cnemidophorus sex-lineatus, Linn. Six-lined Lizard.

91, 92. 541. 1542. 1543. 1990. 2004.

Cran. Skel.

- 1902 *Onemidophorus tessellatus tigris* (Bd + Girard) Cope
Tiger Lizard.
- 1717 *Onemidophorus tessellatus tessellatus* (Say) Cope
- 1718 Tesselated Lizard.
- 1719
- 1720

Present all Squamida p. 43

Sub-Order Diploglossa

Family Anguillidae (The Glass Snakes)

- 1915-1937 *Ophiosaurus ventralis*, Daudin. Glass Snake
- 2049, 1960

Family Gerrhonotidae

- 1906 *Gerrhonotus multicarinatus*, Blainville.

Family HELODERMIDÆ.

Cran. Skel. *Heloderma suspectum*, Cope. Gila Monster.

- 166. ✓
- 1736 ✓
- 2243

Family IGUANIDÆ: Iguanas.

Cran. Skel. *Holbrookia maculata maculata* (Girard), Prairie Lizard.

- 1004, ✓ 684. ✓
- 1005. ✓

Cope

- 1753-1909 *Sauromalus ater*, Dumeril. Big Bellied Lizard
- 1921 ✓

Cran. Skel. *Crotaphytus collaris*, Say. Ring-necked or Collared Lizard.

- 803. ✓ 742. ✓
- 1584, 1911 ✓
- 1585, 1927 ✓

- 1930 ✓ 1905 *Crotaphytus wislizenii*, Baird & Girard, Wislizenus' Lizard.
- 2015 ✓

- 1904 *Dipsosaurus dorsalis*, Baird & Girard

- 2035 *Uta stansburiana*, Baird & Girard. Stansbury's Lizard

- 2040 *Sceloporus poinsettii*, Baird & Girard. Poinsetto Lizard

Cran. Skel. *Sceloporus undulatus undulatus* (Harlan), Common

- 88, 89, ✓ 86. ✓
- 539, ✓
- 546. ✓

Lizard; Brown Swift. Pine Tree Swift; Pine Lizard.

Cope

Cran. Skel. Sceloporus consobrinus, Bd. and Girard. Western Lizard.
1540. ✓

Cran. Skel. Sceloporus spinosus, Wiegmann. Western Spiny Lizard.
1442. ✓ 1104. ✓

1929 ✓

2175 ✓ *Sceloporus clarkii clarkii* (Baird and Girard)
Cope. *caluki* Lizard.

1566 ✓ 1565 ✓ *Phrynosoma modestum*, Girard. Horned Toad

2032 ✓

2218 ✓ 2217 ✓ *Phrynosoma hernandezii* Girard

2219

1564 ✓ 1563 ✓ *Phrynosoma platyabinum*, Girard. Horned
1912 ✓ 2045 ✓ Toad.

Cran. Skel. *Phrynosoma maccallii*, Hallowell. MacCall's Horned
1555. ✓ Lizard.

Cran. Skel. *Phrynosoma regale*, Girard. Regal Horned Lizard.
1534. ✓

Cran. Skel. *Phrynosoma cornutum*, Harlan. Horned Lizard.

538. ✓ 82. ✓

Cran. Skel. *Phrynosoma douglassii douglassii*, (Bell) *Douglass's*
1443. ✓ 1399. ✓ Horned Lizard. Horned Toad. *Regustin*

Cope

1913 ✓

2020 ✓

1903 ✓ 1562 ✓ *Phrynosoma blainvilliei*, Gray. Blainville's Horned
Lizard

1561 ✓ 1559 ✓ *Phrynosoma coronatum*, Blainville. California
1965 ✓ Horned Toad

Family Anolis

1914 ✓ 2042 ✓ *Anolis principalis* Linn. Chamelion Green
Lizard

ORDER Testudinata: Shield Reptiles.

SUB-ORDER CRYPTODIRA.

Family CHELONIDÆ: Sea Turtles.

Cran. Skel. *Thalassochelys caonana*, Linn. Hawksbill Turtle.

528. ✓

529. ✓

577. ✓

675. ✓

Cran. Skel. *Chelonia mydas*, Schw. Green Turtle.

530. ✓

682. ✓

789. ✓

2458

Chelonia caretta Sm.

Order Chelonidæ

Family CHELYDRIDÆ.

Cran.	Skel.	<i>Chelydra serpentina</i> , Linn.	<i>Snapping Turtle.</i>
531, ✓	49, ✓		
843, ✓			
847, ✓			

Family CINOSTERNIDÆ.

Cran.	Skel.	<i>Cinosternum pennsylvanicum pennsylvanicum</i> , (Bosc)	<i>lope</i>
666, ✓	674, ✓	<i>Mud Turtle.</i>	
667, ✓			
668, ✓			
669, ✓			

Family EMYDIDÆ: *Tortoises.*

Cran.	Skel.	<i>Pseudemys rugosa</i> , Shaw.	<i>Red-bellied Terrapin.</i>
652, ✓	9, ✓		
653, ✓			
654, ✓			
655, ✓			
Cran.	Skel.	<i>Pseudemys concinna</i> , Le Conte.	
	1252, ✓		

27
27

Cran.	Skel.	<i>Pseudemys scabra</i>, Linn.	<i>Rough Shelled Turtle</i>
533, ✓			

Cran.	Skel.	<i>Malacoclemmys concentrica</i>, Terrapin.	<i>palustris, Sm. Salt</i>
532, ✓	154, ✓	<i>marsh Turtle. Diamond Back.</i>	

Cran.	Skel.	<i>Chrysemys picta</i> , Herp.	<i>Painted Turtle.</i>
534, ✓	1019, ✓	<i>Tortoise</i>	<i>m/</i>
535, ✓			

Cran.	Skel.	<i>Chelopus guttatus</i> , Schneider.	<i>Yellow-Spotted Turtle.</i>
	172, ✓		

Cran.	Skel.	<i>Chelopus insculptus</i> , Le Conte.	<i>Wood Tortoise.</i>
533,			

Cran.	Skel.	<i>Cistudo clausa clausa</i> , (Gmelin.)	<i>Common Land Turtle;</i>
536, ✓	2, ✓	<i>Box Tortoise.</i>	<i>Cape</i>
537, ✓			

Family Testudinidae

1580 *Testudo carolina* Linn.; *Gopher*

ORDER **Crocodylia**

Family CROCODYLIDÆ.

Cran.	Skel.	<i>Alligator mississippiensis</i> , Daud.	<i>Common Alligator.</i>
1576, ✓	819, ✓		
1938, ✓	1185, ✓		

2242

bram.	Skil.	<i>Iguana rhinolopha</i> , Wegmann.
1900 ✓	1907 ✓	
	1908	<i>Cyclura hemilopha</i>

Miscellaneous of Reptiles

87 ✓	1028 } 844 ✓	1221 ✓
96 ✓	1031 } 1182 ✓	1535 ✓
820 ✓	1183 ✓	1560 ✓
	1186	
821 ✓	1187 ✓	1590 ✓
	1188	1932
		2387.
		2460
		2496
		2514

record

LIST OF CRANIA AND SKELETONS OF FOREIGN
REPTILES.

CLASS **REPTILIA.**

ORDER **Ophidia.**

SUB-ORDER **ASINEA.**

Family **BOIDE:** *Boas.*

Cran. Skel. *Boa constrictor*, Linn. *Boa.*

547, ✓

543, ✓

544. ✓

ORDER **Lacertilia.**

SUB-ORDER **PLEURODONTA.**

Family **IGUANIDÆ:** *Iguanas.*

Cran. Skel. *Metapocerus cornutus*, Wagler. *South American Lizard.*
44. ✓

Cran. Skel. *Iguana tuberculata*, Wagler. *Banded Iguana.*
1444. ✓

Skel
1175 *Iguana* (?)

Rhynchocephalia
Order ~~Rhyncho~~

Family *Notteridae*

Skel

2502

Notteria punctata

LIST OF CRANIA AND SKELETONS OF FISHES.

NOTE.—The classification adopted is that of Dr. Theodore Gill, in his paper "Arrangement of the Families of Fishes," Smithsonian Miscellaneous Collections, No. 247, 1872, and the nomenclature for marine forms is substantially in accordance with his "Catalogue of the Fishes of the East Coast of North America," Smithsonian Miscellaneous Collections, No. 283, 1873.

CLASS PISCES.

SUB-CLASS Teleostei.

ORDER Plectognathi.

SUB-ORDER GYMNODONTES.

Family TETRODONTIDÆ.

Cran. Skel. *Chilichthys turgidus* (Mitch.), Gill. Rough Puffer; Porcupine Fish; Blower; *Smell-fish*; *Tambour*.
1920 ✓ 1413 ✓
1834 ✓

ORDER Pediculati.

Family LOPHIIDÆ.

Cran. Skel. *Lophius americanus*, De Kay. Goose Fish; Fishing Frog; Sea Devil. *piscautorius*, Simm.
1156 ✓ 1164 ✓
1157 ✓ 2376 ✓

ORDER Teleocephali.

SUB-ORDER HETEROSOMATA.

Family PLEURONECTIDÆ.

Cran. Skel. *Pseudopleuronectes americanus* (Walb.) Gill. Common
1153. ✓ 13. ✓ Flounder.

Skel. *Pleuronectes glaber* (Storer) Gill. Smooth
1795 ✓
2359 ✓ Plate; Smooth back Flounder.

Skel. *Glyptocephalus cynoglossus* (Bottsch.) Günth.
2373 ✓ Craig Fluke.

Skel. Sub-family Rhombinæ
1788 ✓ *Lophojosetta maculata* (Mitch.) Gill. Spotted
Tombot; Window-pane; Sand Flounder.

Sub-family Hippoglossinæ

Cran. Skel. *Chenopsetta ocellaris* (De Kay), Gill. Long-toothed
107. ✓ Flounder.

1771 ✓
2454 *Pleuronichthys verticalis* G & G

Continued on p. 46

Family Diodontidae

- Skel. *chilomycterus geometricus* (Linn) Kaup. Spiny
 1723 ✓
 1839 ✓
 hog-fish; Rabbit-fish; Erizo; Porcupine fish

Sub-Order Scelerosderma

Family Balistidae

- Skel. *alutera cuspidata*, DeKay. Long Tailed File Fish
 1837 ✓
- Skel. *alutera Schoepfi* (Walb). Hog Fish; File Fish.
 1714 ✓
 1821 ✓
- Skel. *Stephanolepis setifer* (Bennett) Gill. Storer's File-Fish
 1814 ✓
 Fool Fish.
- Skel. *Balistes vetula* Linn. File Fish
 2345 ✓

Order Hemibranchii

Family Gasterosteidae

Sub-Family Gasterosteinae

- Skel. *Gasterosteus biculeatus*, Shaw. Two-spined
 1850 ✓
 Stickleback
- Skel. *Gasterosteus pungitius*, Linn.
 2325 ✓
- Skel. *Apeltes quadracus* (Mitch) Brev. Four-spined
 1867 ✓
 Stickleback.

Family Soleidae

Sub-family Soleinae

- Skel. *Achirus lineatus* (Linn) Cuv. American Sole; Corlizo
 1873 ✓
 Hogchoker; Coverclip; Spotted Sole.
- Skel. *Solea vulgaris*, Linn. Sole.
 2347 ✓
 2348 ✓

Cran. Skel. *Chaenopsetta dentata* (Storer) Gill. Southern Flounder
1785 ✓
2360 ✓

Skel. *Chaenopsetta oblonga* (Mitch) Gill. Four spots Flounder
1830 ✓

Cran. Skel. *Hippoglossus americanus*, Gill. Halibut.
152. ✓

Skel. *Platysomatichthys hippoglossoides* (Walb.) Gooden
2206 ✓
Bean. Turbot.

Sub-Order Jugulares.

Family GADIDÆ.

Sub-family Gadinae
1832 ✓ *Polladrius carbonarius* (Linn.) Bon. Pollock; Coal fish

Cran. Skel. *Gadus morrhua*, Linn. Common Codfish.
553. ✓ 111. ✓

Sub-family Phycinae
Skel. *Phycis chues* (Walb.) Gill. Codling; Old English Hake
2368 ✓ Squinull Hake; Chues; Fork Beard; Ling.

2363 ✓ 2357 ✓ *Phycis tenuis* (Mitch.) DeKay. Codling; White Hake; Squinull Hake

2331 ✓ *Urophycis regius* (Walb.) Gill. Spotted Codling

Cran. Skel. *Microgadus tomcodus* (Walb.), Gill. Tom Cod; Frost
616. ✓ Fish.
177 2 ✓

Cran. Skel. *Melanogrammus æglefinus* (Linn.), Gill. Haddock.
554. ✓ 26. ✓

Sub-family Lotinae.

1816 ✓ *Lota maculata*, Les. Ling; Barbot; Lake Lawyer
Eel-pout; Lake-cusk.

Sub-family Ciliatinae

2337 ✓ *Oros cimbrius* (Linn.) Gooden & Bean. Rockling

Sub-family Brosminae

Cran. Skel. *Brosmius americanus*, Gill. European Cusk; Polar Cod
626. ✓ Fish.

Family MERLUCIDÆ.

Cran. Skel. *Merluccius bilinearis* (Mitch.), Gill. American Hake.
1141 ✓
1841 ✓

1141

Cran. Skel.

Family Lycodidae
Sub-family Zoarcinae

1777 ✓ *Zoarcetes anguillarius* (Pock.) Storer. Eelpout; Conger
Eel; Lampen = Eel.

SUB-ORDER ACANTHOPTERI.

Family CRYPTACANTHIDÆ.

Cran. Skel. *Cryptacanthodes maculatus*, Storer. Ghost Fish; Wry-
Sl. ✓ mouth.

2329 ✓

Family Hippidiiontidae

1862 ✓ *Muraenoides mucronatus* (Mitch) Gill. Common
Butter-fish.

Family Batrachidae

1726 ✓ *Batrachus tau*, Linn. Toad Fish; Oyster-fish.
1842 ✓

2370 ✓ *Porichthys porocephalus*, Günther (Cuv. & Val)

2340

Fam. Uranoscopidae
Urolophus aurophilus

Family Gobiidae

Sub-family Eleotridinae

1863 ✓ *Eleotris*

1859 ✓ *Dormitator* Sleeper

Family Triglidae

Sub-family Dactylopterinae

1794 ✓ *Dactylopterus volitans* (Linn) Lac. Flying robin;
2414 ✓ *Muraenelago*; Bat-fish; Civetta de mare.

Sub-family Triglinae

2356 ✓ 1729 ✓ *Prionotus evolans* (Linn) Gill .. lined sea robin;

1730 ✓ Flying fish

2530 ✓ *Pealiripes*

1783 ✓ *Prionotus carolinus* (Linn) Cuv. & Val. Web fin =
ground sea robin; Carolina robin.

Family Agonidae.

Sub-family Leptagoninae

2323 ✓

Aepidophoroides monopterygius (Bloch.) Storer
Greenlander.

Family Cottidae

Sub-family Cottinae

1812 ✓ *Cottus octodecimspinosus* Mitch. Slender
sculpin; Smulley.

Cran. Skel.

Family *Scorpaenidae*

- 2375 ✓ *Sebastes marinus* (Linn) Lütken. Red-fish; Sea
- 2452 *Sebasticthys mystinus* For & Bill.
- 2423 ✓ *Sebasticthys chlorostictus* J & G.
- 2445 *Sebasticthys atrovirens*, For. & Bill.
- 2422 ✓ *Sebasticthys nebulosus* (Agass) Bill,
- 2446 → *Sebasticthys carnatus* For & Bill

Family LABRIDÆ.

Cran. Skel. *Tautoga onitis* (Linn.), Günther. Black Fish; Tautog.
576. ✓ 54. ✓

1775 ✓ *Tautoglabrus adspersus* (Walb) Gill. Currier,
Perch-stripper.

Sub-family *Julidinae*

1858 ✓ *Oxajulis modestus* (Srd) Gill.

Family *Embiotocidae*

1739 ✓ *Holcomotus rhodoterus*, Suard. California vivip.
1740 ✓ parous perch.

2372 ✓ *Saemiotoca lateralis* (Agass.) A. Agass.

2371 ✓ *Embiotoca Jacksoni*, Agassiz.

Family *Pomacentridae*

1813 ✓ 1751 *Glyphidodon saxatilis* (Linn) Bur & Val. Cow-pile
Sergeant-major.

Family *Tenthitidae*

1725 *Acanthurus chirurgus*, Bloch & Schneider. Surge
Fish; Barber; Doctor-fish.

Family *Chaetodontidae*

Sub-family *Chaetodontinae*

1762 *Sarothrodus bimaculatus* (Bloch) Poey. Four-
eyed fish.

1861 ✓ *Aeros*

1773 ✓ *Holocanthus ciliaris*, Lac. Isabelita; Angel-fish.

Family *Trichiuridae*

1711 ✓ *Trichiurus lepturus*, Linn. Silver Hair-tail;
1868 ✓ Sword-fish
1869 ✓

2455 *Sebasticthys maliger* For & Bill.

Family SCARIDÆ.

1748 ✓ 1743 ✓ *Scarus radians* Val. Spanish Porgy.
1744 ✓

Cran. Skel. *Pseudocarus guacamaia* (Cuv. and Val.), Günther,
812, ✓ *Parrot Fish.*
846. ✓

Family SCOMBRIDÆ.

Cran. Skel. *Scomber scombrus*, Linn. Mackerel.
1100. ✓ 59. ✓

2412 ✓ *Scomber pneumatophorus*, Dela Roche.

Sub-family Orcyninae.

1800 *Sarda pelamys* (Linn) Cuv. Bonito; Skip-jack

Cran. Skel. *Oreynus ~~secundi-dorsalis~~ (Storer), Gill.* Horse Mackerel ;
1169, ✓ 1868. ✓ Tunny. *(Thynnus)* (Linn) Goode
1170. ✓

2378 ✓ *Enthynnus pelamys* (Linn) Liitken. Oceanic
Bonito

Cran. Skel. *Cybium maculatum* (Mitch.), Cuv. Spanish Mackerel.
1092. ✓ 790. ✓

Family CARANGIDÆ.

Sub-family Vomerinae

1769 ✓ *Vomer petaspinus* (Mitch) Ayres. Horsefish
Jorobado.

1894 *Selene vomer* (Lac) Liitken, Jorobado
Horseman.

1715 *Selene capillaris* Mitch. Moonfish

Subfamily Caranginae.

1801 ✓ *Decapterus punctatus* (Ag.) Gill. Dottel Scad;
Round Robin

1838 *Trachirops crumenophthalmus* (Block) Gill
Big-eyed scad; Chicharro; Goggler; Goggle-
eyed Jack

1825 *Paratractus pisquetos* (Cuv & Val) Gill. Yellow
Crevalle; Cojinna; Jack; Buffalo Jack

1888, 1822 ✓ *Caranx hippos* (Linn) Gill. Horse Cre.
1828 ✓ valli; Jiguagua.

1768 ✓ *Blepharichthys cinctus* (Ackerly) Gill. Thread-
fish; Taylor

Cran. Skel.

Sub-family Trachynotinae

1716 Trachynotus ovatus (Linn) Günther. Short Pompano; ~~Pompano~~ Palometa

Cran. Skel. Trachynotus carolinus (Linn.), Gill. Pompano; Crevallé.
1211. ✓

1761 ✓
1820 ✓

Sub-family Centronotinae

1811 Halatractus zonatus (Mitch) Gill. Rudder-fish; Bonito.

Family Coryphaenidae

1881 Coryphaena ^{sea}sueuri, Cuv. & Val. Lesueurs Dolphin

Family Stromateidae

Sub-family Centrolophinae

1829 Palimnrichthys perciformis (Mitch) Gill. Black rudder fish

Sub-family Stromateinae

1774 Poronotus triacanthus (Pak) Gill. Hamlet-fish; Britten-fish
1831 ✓

1778 Peprilus gardenii (Bl. Schn.) Gill.

Family Benjeidae

Sub-family Holocentrinae

1750 ✓ 1746 ✓ Holocentrum sago, Bloch. Matajuelo; Squire
1749 ✓

Family SCIENIDÆ.

Cran. Skel. Cynoscion carolinensis (Cuv. and Val.), Gill. Salmon
1190. ✓ 1146. ✓ Trout; Spotted Sea Trout.

Cran. Skel. Cynoscion regalis (Bloch), Gill. Squeteague; Weak Fish;
556. ✓ 105. ✓ Gray Trout.
110. ✓

2410 Royceador stearusii, Dr G.
Sub-family Haploidonotinae

1879 Haploidonotus grummiens, Raf. Lake Sheephead
1796 ✓ white perch; Grunter; Drum.

Cran. Skel. Pogonias chromis, Lacep. Drum; *ayatu*-Drum.
120. ✓ 1096. ✓

Cran Skel.

Cran.	Skel.	Liostomus xanthurus, Lacep.	Yellow Tail; Spot.
878, ✓	877, ✓		
886, ✓	885, ✓		
887, ✓			

2332 *Liostomus obliquus* (Mitch) DeKay. La Fayette; Gordy; Lohm; Roach.

Sub-family Sciaeninae

Cran.	Skel.	Sciaenops ocellatus (Linn.), Gill.	Red Bass; Bass; Sea Bass; Red Fish; Ocellated Drum.
559, ✓	142, ✓		

1855 *Bairdiella punctata* (Linn) Gill. Silver Perch

Cran.	Skel.	Menticirrus nebulosus (Mitch.), Gill.	King Fish; White-ing, Hake; Barb.
1149, ✓	1145, ✓		
1151, ✓	1154, ✓		

2434 ^{1782 ✓} *Menticirrus undulatus* (Gud) Gill.
1846 *Menticirrus littoralis* (Holl) Gill. Shore-whiting

Cran.	Skel.	Micropogon undulatus (Linn.), Cuv. and Val.	Croaker; Hick Fish.
1147, ✓	1044, ✓		

2349
Family Georidae

1804 *Excinostomus lefroyi*, Goode. Long ^{Boned} ~~Boned~~ Shad

Family Pimlepteridae

1770 1745 *Pimlepterus boscii*, Lac. Chopa-banca; Bream.

Family SPARIDÆ.

Sub-family Sparinae

1892 *Lagodon rhomboides* (Linn) Holl. Sargo

Cran.	Skel.	Archosargus probatocephalus (Walb.), Gill.	Sheephead.
574, ✓	61, ✓		
	1781, ✓		

2341 *Sargus holbrookii*, Bean.

Cran.	Skel.	Stenotomus argyrops (Linn.), Gill.	Scup; Porgy.
1202, ✓	1201, ✓		
1203, ✓	1212, ✓		
1204, ✓	1776, ✓		

Family Pristopomatinae

2361 *Orthopristis fulvomitris* (Mitch) Gill

1843 *Haemulon anthopteron*, Cuv & Val. Grunt

1891 *Haemulon flaviguttatus*, Gill. Yellow Spotted Grunt

Cran. Skel

1871 ✓ *Haemylum*
2352 ✓ *Rhomboplites aurozabens* (C + V.) Gill
Bastard Snapper.

Sub-family Lutjaninae

1798 ✓ *Lutjanus caxio* (Bl + Schr.) Gill. Gray Snapper
2165 ✓ *Lutjanus blackfordii*, Goode + Bean. Blackford's Snapper

Family SERRANIDÆ.

Sub-family Serraninae

1792 ✓ *Epinephelus striatus* (Bleek) Gill. Hamlet; Group
1806 ✓ *Epinephelus guttatus* (Gmelin) Goode. Hind
2354 ✓ *Epinephelus morio* (Cuv) Gill. Red Grouper

Cran. Skel. *Centropristes atrarius* (Linn.). Black Sea Bass.
575. ✓ 11. ✓

1835 ✓ 1734 ✓

Family Etheostomidae

2415 ✓ *Diplexium blennioides* (Raf) Jordan. Green-side Darter.

Family PERCIDÆ.

Cran. Skel. *Perca flavescens* (Mitch.). Yellow Perch.
568. ✓ 24. ✓
863. 1833 ✓
1884 ✓

27

americana Schrank.

2355 ✓ 148 ✓ *Stizostedion vitreum* (Mitch) Jor. + Copeland.
1875 ✓ Pike Perch

1741 ✓ 2333 ✓ *Stizostedion griseum* (DeKay) Milner. Saug
Gray Pike; Perch.

Cran. Skel. *Percina caprodes* (Raf.), Girard. Hog Fish.
170. ✓

74 ✓ *Boleichthys fusiformis* (Girard) Jor. Darter

Family LABRACIDÆ.

Cran. Skel. *Morone americana* (Gmelin), Gill. White Perch.
558. ✓ 23. ✓

1870 ✓ *Paralabrax clathrata* Grd.

Cran. Skel. *Roccus lineatus* (Bl. Schu.), Gill. Striped Bass; Rock
43. ✓ 3. ✓ Fish.

1872 *Roccus dycoops* (Raf) Gill. White Bass;
Staiped Lake Bass

Family CENTRARCHIDÆ.

Cran. Skel. *Lepomis auritus*, Gill. Long-eared Sunfish.
860, 5. ✓
865. ✓ 1886 ✓ (Linn.)

1883 *Lepomis pallidus* (Mitch.) Gill & Jordan. Pale Sunfish

1893 *Lepomis apiatus*, Leafe. Fly-speckled Sun Fish

1854 *Lepomis sanguinolentus* (Ag) Jordan. Blue and
orange Sun-fish; Sun Perch.

1747 815 *Lepomotis aureus* (Walb) Gill & Jordan. Common
Sun-fish; Pumpkin-seed; Tobacco-buf.

1735 ✓

1889 *Lepomotis speciesus* (Holbr) Gill. Southern Sunfish.

Cran. Skel. *Enneacanthus obesus*, Gill. Mottled Sunfish.
1150. ✓ 817. ✓ (Grd.)

1890 *Chaenobryttus viridis* (Lew. & Val) Jordan. Green
Sunfish

2320 *Telipomus cyanellus* Raf. Blue Spotted Sun-fish

2413 *Centrarchus irideus* C & V. Shining Bass.

823 *Pomoxys nigromaculatus* (Le S.) Grd. Grass Bass
1779 ✓ Callion Bass; Bar fish; Stranburg Bass; Bitterhead.

2335 *Pomoxys annularis*, Raf. Crappie; Bachelor.

Cran. Skel. *Micropterus salmoides* (Lac.), Gill. Small-mouthed
147. ✓ Black Bass; Black Bass. dol

1799 1789 ✓ (Sac) Vail & Boc

Cran. Skel. *Micropterus floridanus* (Les.), Gill. Oswego Bass. Large
1787 1142. ✓ smallmouth Black Bass.

1877 *Ambloplites rupestris* (Raf) Gill. Rock Bass;
Coggle-eye; Red eye.

Family ERHIPPIIDÆ.

850 68 *Chaetodipterus gigas*

1876 *Chaetodipterus quadratus* (Linn) Gill. Moonfish

Family POMATOMIDÆ.

Cran. Skel. *Pomatomus saltatrix* (Linn.), Gill. Mackerel; Skip-Jack. Horn
67, 63. ✓
555, ✓
1158. ✓
Mackerel; Greenfish; Taylor
Snapping mackerel.

Sub-Order Incertae sedis
Family Ammodytidae.

1865 ✓ *Ammodytes americanus*, DeKay. Sand lance; Sand

(E) Family ECHINEIDIDÆ.
Cran. Skel. *Leptecheneis naucrateoides* (Zuiew.), Gill. Sucker.
2369 ✓ 71. ✓

Family Sphyraenidae

1815 ✓ *Sphyrena borealis*, DeKay; Northern ? ; Sea

SUB-ORDER PERCESOCES.

Family Mugilidae (Muller)

1887 ✓ *Mugil*

1880 ✓ *Mugil cephalotus* (?)

Family Atherinidæ.

Cran. Skel. *Chirostoma notata* (Mitch.), Gill. Silver-sides.
882. ✓ 1767 ✓

SUB-ORDER SYNENTOGNATHI.

Family Belonidæ.

Cran. Skel. *Belone longirostris* (Mitch.), Gill. Silver Gar; Bill Fish.
562. ✓ 55. ✓

2350 ✓ *Belone latimannus*, Poey. Garfish.

Family Scomberesocidæ.

Cran. Skel. *Exocoetus exiliens*, Gmelin. Flying Fish.
1054.

2451 *Exocoetus californicus* (Cooper)

1793 *Hemirhamphus pleii*, Val. Red-billed Gar.

1840 *Scomberesox scutellatus*, Seb. Stripper; Saury; Strip

SUB-ORDER HAPLOMI.

Family Esocidæ.

1817 ✓ *Esox nobilior*, Thompson. Muskallunge; Great Pike

Cran. Skel. *Esox lucius*, Linn. Lake Pike; Mascalunge. (Maskinongys)
609. ✓ 146. ✓

1809 ✓

1740 ✓ *Esox americanus*, Lac. Banded Pickerel; Trout Pickerel

Cran. Skel. *Esox reticulatus*, Lesueur. Pickerel.
557. ✓ 16. ✓

Family CYPRINODONTIDÆ.

- Cran. Skel. Fundulus heteroclitus (Linn.), Gill. Mummichog.
 1133. ✓ 880. ✓
- Cran. Skel. Fundulus ~~bairdii~~, Agass. Baird's Stone-tugger.
 103. ✓ *Sp*

1763 ✓ Fundulus piciculentus (Mitch. Val) Mummichog; Minnow.
 1764 ✓

- Cran. Skel. Hydrargyra majalis (Walb.), Val. Mummichog.
 881. ✓

1766 ✓ 1765 ✓

Family Umbudæ

1848 ✓ Melanura limi (Kirt) Ag. Mud-minnow; Mud-dace; Dogfish

SUB-ORDER ISOSPONDYLI.

Family Synodontinæ

1847 ✓ Synodus foetens (Linn.) Gill. Snake fish

Family MICROSTOMIDÆ.

- Cran. Skel. Osmerus mordax (Mitch.), Gill. Smelt.
 1064. ✓

2321 ✓ Osmerus pacificus; Pacific Smelt.

Family SALMONIDÆ.

- 2362 ✓ Oncorhynchus quinnat (Rich) Günther, California, Colum.
 2421 ✓ Oncorhynchus kisutch (Walb.) Jordan & Gill. Salmon.
 2058 ✓ Salmo splilurus Leafe
 2367 ✓ Salmo sebago, Girard. Land-locked Salmon.
 1885 ✓ Salvelinus ogmussa (Brd) Gill & Jor. Blue backed Trout
 571 ✓ 58 ✓ Salvelinus fontinalis (Mitch) Gill & Jor. Brook-Trout.
 1845 ✓
 1288 ✓ 144 ✓ Cristivomer namaycush (Walb) Gill & Jor. Lake Trout
 1578 Thymallus tricolor, Cope, Grayling.
 131 ✓ Coregonus clupeformis (Mnt) Milner. White Fish;
 Bighead Fish.

Family Albulidæ

1780 Albula conorhynchus Bl. and Schw. Lady-fish
 2365 ✓

Family ELOPIDÆ.

1802 ✓ Elops saurus, Linn. Big-eyed herring;

- Cran. Skel. Megalops thrissoides (Bl. Sch.), Günther. Jew Fish;
 1140. ✓ Turpum.

- Cran Skel Family *Dussumieridae*
 1866 ✓ *Etrumeus teres* (Delav) Brevoort. Round Herring
 1797 ✓ *Hyodon tergius*, Seb. Moon-eye; Silver Bass. ^{For} _(Herr)

Family *CLUPEIDÆ*.

- 1791 ✓ *Brevoortia tyrannus* (Lat.) Goode. Menhaden; M
 lunker. Hard head; bony fish; lunker on
 fish; fat-back; yellow tail; long-fish
 2358 ✓ *Brevoortia patronus*, Goode. Alewife.

Cran. Skel. *Alosa sapidissima* (Wilson), Storer. Shad.
 570. ✓ 36. ✓

- 1879 ✓ *Opisthonema thaisa*, Gill. Thread herring; Menha

Cran. Skel. *Pomolobus pseudoharengus* (Wilson), Gill. Herring;
 1070, ✓ 1078. ✓ Alewife. Saw-belly; Spring-Herring;
 1071, ✓ Blue back.
 1072, ✓
 1073. ✓

- 1786 ✓ *Pomolobus mediocris* (Mitch) Gill. Sailor herring; ^{F.} _{S.}
 1807 ✓ *Clupea harengus* Linn. English herring

Family *DOROSOMIDÆ*.

Cran. Skel. *Dorosoma cepedianum* (Lac.), Gill. Toothed Herring.
 567. ✓ 108. ✓
_{com}

- Family *Engraulidae*
 1857 ✓ *Engraulis* Anchovy

SUB-ORDER *EVENTOGNATHI*.Family *CATOSTOMIDÆ*.

- 572 ✓ 57 ✓ *Hypentelium nigricans* (Le S.) Ford. Hog Sucker; ^{St.} _{S.}
 1844 ✓ collar; Crawd-a-bottom.
 662 ✓ 659 ✓ *Catostomus commersonii* (Lac.) Ford. Chub; ^{St.} _{S.}
 663 ✓ 1731 ✓
 664 ✓ 2346 ✓
 665 ✓
 1856 ✓ *Catostomus longirostris* de S. Long-nosed Sucker
 1805 ✓ *Erimyzon sucetta* (Lac) Ford. Creek fish; ^{Chub-} _{su-}
 807 ✓ 806 ✓ yellow mullet; Horned Sucker.
 66 ✓ *Carpoides*

Family *CYPRINIDÆ*.

Cran. Skel. *Carassius auratus*, Bleeker. Goldfish.
 569. ✓ 28, ✓
 630.

1742 ✓

Cran Skel

- 2334 ✓ *Cyprinus carpio* (Linn) Carp.
- 169 ✓ *Semotilus corporalis* (Mitch) Putnam Common chub; Horned dace; Creek chub.
- 1853 ✓
- 573 ✓ 585 ✓ *Semotilus bullaris* (Raf) Jordan Fall fish; chub; Roach; Swamp carp.
- 866 ✓ 1874 ✓

Cran. Skel. *Hybognathus regius*, Girard. Gudgeon; River Smelt.
560. ✓ 75. ✓

- 864 ✓ 168 ✓ *Luxilus cornutus* (Mitch) Jordan. Shiner. Red-fin; Rough-head; Roach; Rat-gut.
- 1851 ✓
- 2338 ✓ *Idus melanotus* Heckel. The Ide

Cran. Skel. *Hybopsis hudsonius*, (Clinton) Putnam. Sparrow-eater
879. ✓
1849 ✓

- Cran. Skel. *Ceratichthys biguttatus* (Kirtland) ^(Grd) Horned Chub. Honey-head
588. ✓ 592. ✓ *ferrieri*; *River Chub.*
- 1852 ✓ *Rhinichthys cataractae* (Val) Jordan. Long nosed Dace; Niagara Gudgeon.
- 1897 ✓

- 599 ✓ *Notemigonus chrysoleucus* (Mitch) Jordan. Shiner. Golden Shiner
- 1724 ✓
- 1810 ✓

alostanus

Cran. Skel. *Luxilus kentuckiensis*, Gill. ^(Grd) Gold-striped Dace. *Silver-side*
73. ✓

Cran. Skel. *Exoglossum maxillingua* (Lesueur) ^(Waldemom) Tonguejaw. *Say* chub;
587. ✓ *Cut-lips*; *Wiggen-chub.*

ORDER Nematognathi.

Family SILURIDÆ.

- 1882 ✓ *Ichthaelurus punctatus* (Raf) Jordan. Channel Cat; Blue cat; White cat.
- 1727 ✓ *Amiurus albidus* (Les) Gill. Fork-tailed cat-fish; Channel cat of the Potomac
- 1728 ✓
- 2336 ✓
- 1784 ✓ *Amiurus lophius* (Grd) Gill. Big mouthed Catfish
- 2322 ✓ *Amiurus melas* (Raf) Jord + Cope. Small Black Catfish.
- 2339 ✓ *Amiurus natalis lividus* (Les.) Raf. Cat fish; Yellow Cat
- 1143 ✓ *Amiurus acutus* (L) Gill. Black Catfish; Horned Pout; Bullhead; Minnow.
- 1836 ✓
- 563 ✓ 21 ✓ *Amiurus nigricans* (Les.) Gill. Lake cat fish; Black Catfish; Great Minnow-pike
- 564 ✓
- 1860 ✓ *Noturus insignis* (Rich) Gill + Jord. Margined Stone Cat.

- 2326 *Noturus exilis*, Nelson. Slender Stone loat
- 2324 *Noturus gyrinus* (Mitch.) Raf. Tadpole Stone loat
- 2351 *Ariopsis milberti* (Val) Gill; Sea Catfish

Cran.	Skel.	Rhamdia brachypterus (Cope), Gill.	Mexican Catfish.
	51.		

ORDER Apodes.
SUB-ORDER ENCHELYCEPHALI.

Family Congridae
 Sub-family Congrinae

- 2344 *Conga oceanica* (Mitch) Gill Conger-eel.

Family ANGUILLIDÆ.

Cran.	Skel.	Anguilla bostoniensis (Les.), DeKay.	Common Eel.
1094.	25.	<i>vulgaris</i> (Fleming)	
1095.	1105.		

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- Family Muraenidae
- 2374 *Muraena sanctae helenae*, Günther.
- Family Synbranchidae
- 2328 *Synbranchius pinnatus*, Günther
- Family Simenchelyidae
- 2327 *Simenchelys parasiticus*, Gill. Pigmy eel.

SUB-CLASS Ganoidei.
SUPER-ORDER HYOGANOIDEI.

Order Cycloganoidei
 Family Amniidae

- 1803 *Amia* ~~&~~ *calva* Sim. Bow fish; Dog-fish; Muddy

ORDER Rhomboganoidei.

Family LEPIDOSTEIDÆ.

Cran.	Skel.	Lepidosteus osseus (Lac.)	Common Gar Fish.
565.	62.		
566.	1823.		

- 2504 " "
- 1827 *Litholepis platyotomus* (Lac) Jordan. Short-nose gar pike.

Order Selachostomi
 Family Polyodontidae. Spoon-billed

- 1808. 1577 *Polyodon folium*, Lac.

Superorder Dipnoi

Order Sirenidae
 Family Ceratodontidae

See Cases
 43
 60

248 *keratodus fosteri* 61

SUPER-ORDER **CHONDROGANOIDE.**

ORDER **Chondrostei.**

Family ACIPENSERIDÆ.

Cran. Skel. *Acipenser oxyrhynchus*, Mitch. *Sharp-nosed Sturgeon.*
 1152. ✓ 971. ✓
 1864

2342 ✓ *Acipenser ruthenus*, Linn. *Sturgeon*

1819 ✓ *Scaphirhynchops platyrhynchus* (Raf.) Cope. *Shovel
 mouth Sturgeon*

SUB-CLASS **Elasmobranchii.**

Super-Order Holocephali

Family Chimæridæ

2377 ✓ *Chimæra plumbea*, Gill; *Brown Chimæra*

SUPER-ORDER **PLAGIOSTOMI.**

ORDER **Raiæ.**

SUB-ORDER **MASTICURA.**

Family TRYGNIDÆ.

Cran. Skel. *Trygon centrura* (Mitch.), Gill. *Sting Ray; Stingaree*
 1174. ✓ 1165. ✓
 1588 ✓

Sub-Order Sarcura

Family RAIIDÆ.

Cran. Skel. *Raja undulata*, Lacep. *Whip-tailed Ray.*
 874. ✓

Cran. Skel. *Raja lævis*, Mitch. *Sharp-nosed Skate.*
 1159. ✓

2383 ✓ *Raja erinacea*, Mitchell. *Bluenosed Skate.*

2384 ✓ 2379 ✓ *Raja radiata*, Donovan *Skate*

2449 *Raja stellulata* For & Gill

ORDER **Squali.**

Sub-Order Rhinal

Family Sphyrnidae

2343 ✓ *Sphyrna zygaena* (Linn) Müll. & Henle

Hammerhead Shark; Hornmound - Mognosa

Family ODONTASPIDIDÆ.

Cran. Skel. *Eugomphodus littoralis*, Gill. *Sand Shark; Shovel-nose.*
 1171. ✓ 1166. ✓

Family GALEORHINIDÆ.

Cran. Skel. *Eulamia milbertii* (Müll. and Henle), Gill. *Blue Shark.*
 673, ✓ 1878 ✓
 1269.

62

Cran.	Skel.	<i>Eulamia obscurus</i> (Lesueur), Gill.	<i>Dusky Shark.</i>
1172.	✓		
1262.	✓		
Cran.	Skel.	<i>Galeocерdo tigrinus</i> , Müll. and Henle.	<i>Tiger Shark.</i>
1052.	✓		
Cran.	Skel.	<i>Mustela canis</i> (Mitch.), DeKay.	<i>Smooth Dogfish.</i>
1167.	✓ 1819 ✓		
Family SPINACIDÆ.			
Cran.	Skel.	<i>Squalus americanus</i> (Storer), Gill.	<i>Dogfish; Dog Shark.</i>
1155.	✓		
1826	✓		

2366 *Centrophorus coelolepis*, *Siintha*

Sub-order Galei

Family Heterodontidae

2506 *Cetracion philippi*

104
132
145 ✓

630 ✓

863 ✓

875 ✓

1015 ✓

1035

1036

Miscellaneous

1063 ✓ 1173 ✓

1093 ✓ 1269 ✓

1097 ✓ 1732 ✓

1098 ✓ 2191

1099 ✓ 2236 ✓

1135 ✓ 2382 ✓

2447





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