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SECTION A.

LIST OF ANIMALS OF NORTH AMERICA BENEFICIAL OR INJURIOUS TO MAN.

* I. MAMMALS.

ORDER FERÆ.

SUBORDER FISSIPEDIA.

FELIDÆ.

Lynx rufus, (Guldenstädt,) Raf.—BAY LYNX or WILD CAT.—North America.

12476. Mounted. Denver, Col. C. E. Aiken. Dec. 14, 1875.

12477. Mounted. (Young.) Denver, Col. C. E. Aiken.

Lynx canadensis, (Geoff. & Desm.,) Raf.—CANADA LYNX.—Northern North America.

12475. Mounted. Houlton, Me. Rev. R. R. McLeod. Dec. 15, 1875.

Felis eyra, Desm.—EYRA CAT.—Southwestern North America.

9532. Mounted. Tehuantepec, Mex. F. Sumichrast.

Felis yaguarundi, Desm.—YAGUARUNDI CAT.—Southwestern North America.

8480. Mounted. Tabasco, Mex. Col. Sarto.

Felis concolor, Linn.—PUMA or COUGAR.—America generally.

11813. Mounted. Central Colorado. James Stevenson. 1874.

Felis onca, Linn.—JAGUAR.—Southwestern States, Central and South America.

10390 ÷ 12296. Mounted. Died in captivity at Government Insane Asylum, Washington.*

* The numbers prefixed to the enumeration of specimens are Smithsonian catalogue numbers. When two numbers are given, separated by the mark of division (÷), the first mentioned refers to the particular preparation of the animal in question; the second, to some other related part entered in a different series. For example, in 10390 ÷ 12296, the first number belongs to the skin and the second to the skeleton of a specimen of *Felis onca*.

Felis pardalis, Linn.—OCELOT or TIGER CAT.—Southwestern North America.

12179 ÷ 14179. Mounted. Talamanca, Costa Rica. Talamanca expedition. Prof. W. M. Gabb.

12187. Mounted. Talamanca, Costa Rica. Talamanca expedition. Prof. W. M. Gabb.

CANIDÆ.**Canis lupus**, Linn., *var. griseo-albus*.—GRAY WOLF.—North America generally.

3573 ÷ 3520. Mounted. (Winter pelage.) Platte River, Neb. C. Drexler.

Vulpes fulvus, (Desm.,) *var. fulvus*, (Desm.)—RED FOX.—Northern North America.

7124. Mounted. (Male.) La Pierre's House, Rocky Mts. R. Kennicott. Dec., 1831.

6403. Mounted. (Female.) Yukon River. R. Kennicott. Oct. 21, 1860.

Vulpes fulvus, (Desm.,) *var. decussatus*.—CROSS FOX.

6407. Mounted. (Female). Ft. McPherson, Peels River, Hudson's Bay Territory. R. Kennicott. Nov. 28, 1831.

"A very fine cross fox, nearly silver, small and apparently young. The Indians told me she would be a silver fox next year."—Kennicott.

6408. Mounted. (Female.) Ft. McPherson, Peels River, H. B. T. R. Kennicott. Nov. 30, 1831.

"A good typical cross fox; tail rather small."—Kennicott.

6404. Mounted. (Male.) Yukon River. R. Kennicott. Oct. 22, 1860.

"A rather fine cross fox, approaching more nearly the silver fox than the red."—Kennicott.

12465. Mounted. Houlton, Maine. Rev. R. R. McLeod. Dec. 31, 1875.

Vulpes fulvus, (Desm.,) *var. argentatus*.—SILVER FOX: BLACK FOX.

6410. Mounted (Male.) Yukon River. R. Kennicott. Nov. 17, 1830.

"A fine silver fox."—Kenn.

6411. Mounted. (Female.) Ft. McPherson, Peels River, H. B. T. R. Kennicott. Oct. 17, 1831.

"Black fox; some had still less silver."—Kenn.

Vulpes macrurus, Baird.—PRAIRIE FOX.—Western States.

— Mounted. Wyoming.

Vulpes velox, (Say,) Aud. & Bach.—KIT FOX or SWIFT FOX.—Western States.

12470. Mounted. Colorado. Chas. E. Aiken. Jan. 15, 1876.

12469. Mounted. Colorado. Chas. E. Aiken. Jan. 15, 1876.

11085. Mounted. Rocky Mountains.

Vulpes lagopus, (Linn.,) Gray.—ARCTIC FOX.—Alaska.

— Skin. St. Paul's Id., Alaska. G. R. Adams.

Urocyon virginianus, (Schreber,) Gray.—GRAY FOX.—United States generally.

— Mounted. Virginia.

Urocyon virginianus, (Schreber,) *var. littoralis*.—COAST GRAY FOX.—Islands of the California coast.

12440. Mounted. Santa Cruz, Cal. H. W. Henshaw. U. S. Survey W. of 100 M.

MUSTELIDÆ.

Mustela Pennanti, Erxl.—FISHER.—Northern North America.

12472. Mounted. Houlton, Maine. Rev. R. R. McLeod. Jan. 15, 1876.

3279. Mounted. Olympia, W. T. Geo. Gibbes.

Mustela americana, Turton.—PINE MARTIN or AMERICAN SABLE.—Northern United States.

12544. Mounted. Hudson's Bay Territory. R. Kennicott.

379. Mounted. Hudson's Bay Territory. R. Kennicott

— Mounted. Hudson's Bay Territory. R. Kennicott.

1015. Mounted. Hudson's Bay Territory. R. Kennicott.

6414. Mounted. Yukon River, mouth of Porcupine, Hudson's Bay Territory.
R. Kennicott.

6429. Mounted. Yukon River, mouth of Porcupine, Hudson's Bay Territory.
R. Kennicott.

Putorius erminea, (Linn.,) Cuvier.—WHITE WEASEL: ERMINE.—Northern United States.

9355. Mounted. Kodiak. F. Bischoff. 1868.

6498 ÷ 1029. Mounted. (Male.) Yukon River, mouth of Porcupine R. R. Kennicott.

1427. Mounted. (Male.) Middleboro, Mass. J. W. P. Jenks.

Putorius longicauda, Bonaparte.—LONG-TAILED WEASEL.—Western United States.

9350. Mounted. Wyoming Territory. Dr. F. V. Hayden.

Putorius vison, Rich.—MINK.—North America generally.

12432. Mounted. (Male.) Moore's Lake, Minn. J. H. Batty.

4396. Mounted. Liard River. R. Kennicott.

1653 ÷ 12309. Mounted. United States.

2392. Mounted. Cape Flattery, W. T. Dr. Suckley.

Putorius nigripes, Aud. & Bach.—BLACK-FOOTED FERRET.—Western States (in holes of Prairie dogs).

12409. Mounted. Spotted Tail Agency, Neb. Col. A. Chambers, U. S. A. Oct. 1, 1875.

12462. Mounted. Cheyenne, Wyoming. Capt. Jas. Gilliss, U. S. A. Dec. 27, 1875.

Gulo luscus, Sabine.—WOLVERENE or GLUTTON.—Northern North America.

3747. Mounted. Great Salt Lake, Utah. Capt. Stansbury.

4361. Mounted. Ft. Simpson, H. B. T. B. R. Ross.

Taxidea americana, Waterh.—AMERICAN BADGER.—Western United States and Pacific Slope.

12471. Mounted. Colorado. Chas. E. Aiken. Jan. 15, 1876.

Mephitis mephitis, (Shaw) Baird.—COMMON SKUNK.—Eastern United States.

4348. Mounted. Washington, D. C. C. Drexler.

12522. Mounted. Golden, Col. C. E. Aiken.

1071. Mounted. Middleboro, Mass. J. W. P. Jenks.

4127. Mounted. Lynn, Mass. George Welch.

1070. Mounted. (Male.) Middleboro, Mass. J. W. P. Jenks. Dec. 3, 1855.

Mephitis mexicana, Gray.—MEXICAN SKUNK.—Mexico.

8566. Mounted. Orizaba, Mex. Mr. Botteni.

Spilogale zorilla, (Linn.) Coues.—LITTLE STRIPED SKUNK.—Western United States and Pacific Slope.

1188. Mounted. Santa Clara, Cal. Dr. J. S. Newberry. Nov., 1855.

Conepatus mapurito, (Gmelin) Coues.—WHITE-BACKED SKUNK.—Southwestern United States.

790 — 1886. Skin. Western Texas. Capt. J. Pope, U. S. A.

LUTRINÆ.

Lutra canadensis, Sab.—AMERICAN OTTER.—North America generally.

3280. Mounted. Steilacoom, Wash. Ter. George Gibbs.

5145 ÷ 4456. Mounted. Washington, D. C. National Institution.

ENHYDRINÆ.

Enhydra marina, Fleming.—SEA OTTER.—Pacific Coast of the United States.

9457. Mounted. (Adult.) Alaska. Dr. T. T. Minor.

9458. Mounted. Alaska. Dr. T. T. Minor.

URSIDÆ.

Ursus horribilis, Ord.—GRIZZLY BEAR.—Western United States and Pacific Slope.

12308. Mounted. (16 years old.) Laramie, Wyoming. Major Twiss. (Confined in the Government Insane Hospital, Washington, from 1858 to 1874.)

Ursus americanus, Pallas.—BLACK BEAR.—United States generally.

12380. Mounted. Northern Michigan. John Wallace.

Thalarctos maritimus, (Linn.) Gray.—WHITE or POLAR BEAR.—Northern America, Europe and Asia.

12379. Mounted. Greenland. John Wallace.

PROCYONIDÆ.

Procyon lotor, (Linn.) Storr.—RACCOON.—United States generally.

5148. Mounted. National Institution.

5147. Mounted. National Institution.

26789. Mounted. Wyoming, N. Y. H. A. Ward. Rochester, N. Y.

Nasua fusca, —COATIMUNDI.—Texas.

12757. Mounted. Brownsville, Texas. Dr. J. C. Merrill, U. S. A.

PINNIPEDIA.

OTARIIDÆ.

Callirhinus ursinus, (Schreber) Gray.—FUR SEAL.—North Pacific Ocean and Bering's Sea.

12918-34. Mounted. (Group of 17.) Prybilov Islands, Alaska. Alaska Commercial Company, San Francisco.

12935. Mounted. Alaska. H. W. Elliott.

Eumetopias Stelleri, (Fischer) Gray.—SEA LION.—Pacific Coast.

12489. Mounted. (Female.) Prybilov Islands, Alaska. Alaska Commercial Company, San Francisco.

12488. Mounted. (Male.) Prybilov Islands, Alaska. Alaska Commercial Co., San Francisco.

12936. Mounted. (Young.) North Pacific.

Zalophus Gilliespii, (Macbain) Gill.—THE SEA DOG.—Pacific Coast.

12937. Mounted. Southern California. Capt. Baker.

PHOCIDÆ.

PHOCINÆ.

Phoca vitulina, Linn.—THE COMMON SEAL; HARBOR SEAL.—North Atlantic.

12453. Cast. Provincetown, Mass. 1875.

623. Photograph. (Young.) U. S. Fish Commission.

624. Photograph. U. S. Fish Commission.

Phoca Richardsii, (Gray) Gill.—LEOPARD SEAL.—North Pacific.

3742. Mounted. California.
12494. Mounted. Adakh Id. Alaska. W. H. Dall.

Pagophilus grœnlandicus, (Müll.), Gray.—HARP SEAL.—Arctic Seas.

5853. Mounted. Sable Island, N. S. P. W. Dodd.
8122. Mounted. Franklin Harbor, Arctic Seas. R. McFarlane.
5851. Mounted. Sable Island, N. S. P. W. Dodd.
12040. Mounted. St. John's, N. F. Rev. M. Harvey.
5852. Mounted. Sable Island, N. S. P. W. Dodd.
12039. Mounted. St. John's, N. F. Rev. M. Harvey.
12038. Mounted. St. John's, N. F. Rev. M. Harvey.

Erignathus barbatus, (O. Fabricius) Gill.—SQUARE-FLIPPER SEAL.—Arctic Seas.

12422. Skin. Newfoundland. Government of Newfoundland.

Histiophoca equestris, (Pallas) Gill.—BANDED SEAL.—Pacific Coast, Arctic Seas.

7580. Skin (in collection of Furs). Cape Romanzoff. W. H. Dall.

Pusa gryphus, (O. Fabricius) Gill.—GRAY SEAL.—Atlantic Coast.

8694. Mounted. Seeland. Zoological Museum, Copenhagen.

CYSTOPHORINÆ.**Cystophora cristata**, (Erxl.) Nilsson.—HOODED SEAL.—Atlantic Coast.

12043. Mounted. St. John's, N. F. Rev. M. Harvey.

Macrorhinus angustirostris, Gill.—SEA ELEPHANT; ELEPHANT SEAL.—Pacific Coast.

12441. Mounted. (Male.) California. Capt. C. M. Scammon.

ROSMARIDÆ.**Rosmarus obesus**, (Illig.) Gill.—WALRUS.—North Atlantic.

11870. Mounted. Greenland. Dr. I. I. Hayes.

Rosmarus Cookii, (Fremery) Gill.—WALRUS.—Northern Pacific.

12493. Mounted. Prybilov Islands, Alaska. Alaska Commercial Co., San Francisco.

ORDER, UNGULATA.

BOVEDÆ.

BOVINÆ.

Bison americanus, (Gmelin) Gray.—AMERICAN BUFFALO.—
Plains between Rocky Mountains and Missouri River.

12919. Mounted. Colorado. C. E. Aiken.

Ovibos moschatus, Blainville.

12298. Mounted. (Female.) Arctic Coast, H. B. T. W. L. Hardestie. Jan. 23, 1875. Also skeleton of same animal.

12297. Mounted. (Male.) Arctic Coast, H. B. T. W. L. Hardestie. Jan. 23, 1875. Also skeleton of same animal.

6255. Mounted. (Male.) Ft. Good Hope, H. B. T. J. S. Onion.

ANTILOPINÆ.

Mazama montana, (Ord) Gill.—MOUNTAIN GOAT.—Northern
Rocky Mountains of the United States and British America.

11894. Mounted. (Male.) Montana. W. F. Wheeler and J. Armitage.

11893. Mounted. Washington Territory. U. S. Northern Boundary Survey.

OVINÆ.

Ovis montana, Cuvier.—BIGHORN; MOUNTAIN SHEEP.—Rocky
Mountain regions.

11891. Mounted. (Male.) Ft. Fetterman, Dakota. James Stevenson, U. S. Geol. Survey.

1608. Horns. H. B. Möllhausen.

ANTILOCAPRIDÆ.

Antilocapra americana, Ord.—PRONGHORN ANTELOPE or
CABREE.—Plains west of Missouri from Lower Rio Grande
to Saskatchewan.

2034. Mounted. (Male.) Yellowstone River. Dr. F. V. Hayden.

2471. Horns. Ft. Chadbourne, Texas. Dr. Swift, U. S. A.

6914. Horns. Ft. Whipple, Arizona Ty. Dr. Elliott Coues, U. S. A.

5084. Horns. Upper Missouri. ?

CERVIDÆ.

Alces machlis, (Linn.) Gray.—MOOSE.—Northwestern United
States.

11868. Mounted. (Adult male.) Nova Scotia. Geo. A. Boardman.

12542. Mounted. (Adult male.) Nova Scotia. Mr. Jack.

11861. Mounted. (Young calf.) Nova Scotia. Dr. Bernard Gilpin.

857. Antlers. Maine. General S. Churchill, U. S. A.

— . Antlers. Adirondacks, N. Y. Henry J. Biddle.

Tarandus rangifer, J. Brookes, subspecies **caribou**, Aud. & Bach.—WOODLAND CARIBOU.—Northeastern North America.

12473. Mounted. Houlton, Me. Rev. R. R. McLeod.
 12407. Mounted. Houlton, Me. Rev. R. R. McLeod.
 11865. Mounted. Lake Superior. J. Barnston.
 3289. Antlers. (Female.) Nelson River.
 3290. Antlers. (Female.) Nelson River.

Tarandus rangifer, (Br.) subsp. **grœnlandicus**, Br.—BARREN GROUND CARIBOU.—Arctic America.

6255. Mounted. Arctic America.
 905. Antlers. North Greenland. S. Sternberg.
 903. Antlers. North Greenland. S. Sternberg.
 6782. Antlers. Plover Bay. Capt. C. M. Scammon, U. S. R. M.
 7539. Antlers. Yukon River. W. H. Dall.
 4636. Antlers. Port Foulke, N. Greenland. Dr. I. I. Hayes.

Cervus canadensis, Erxl.—AMERICAN ELK.—Northern North America.

12474. Mounted. Ft. Sanders, Wyoming. Col. A. G. Brackett, U. S. A.
 4457. Antlers. Elk Co., Penna. Prof. S. S. Haldeman.
 2911. Antlers. Ft. Berthold, Missouri River. Lt. Warren, U. S. A., Dr. F. V. Hayden.
 867. Antlers. Utah. Col. O. Cross, U. S. A.
 2579. Antlers. Platte River. Lt. Bryan, U. S. A.
 3552. Antlers. Ft. Tejon, Lower Cal. John Xantus.
 3551. Antlers. Ft. Tejon, Cal. John Xantus.
 840. Antlers. Ft. Union, Mo. A. Culbertson.
 761. Antlers. Ft. Union, Mo. A. Culbertson.
 760. Antlers. Ft. Union, Mo. A. Culbertson.
 2916. Antlers. Ft. Berthold, Missouri River. Lt. Warren, U. S. A., Dr. F. V. Hayden.
 2905. Antlers. Ft. Berthold. Dr. F. V. Hayden.
 2903. Antlers. Ft. Berthold. Dr. F. V. Hayden.
 2910. Antlers. (Male.) Ft. Berthold. Dr. F. V. Hayden.
 3483. Antlers. Oregon. U. S. Expl. Exped. Capt. Wilkes, U. S. N.
 3487. Antlers. Oregon. U. S. Expl. Exped. Capt. Wilkes, U. S. N.

Cariacus virginianus, (Boddært) Gray.—VIRGINIA DEER.—United States east of the Missouri.

12461. Mounted. Cumberland, Md. D. P. Welpley. Dec. 26, 1875.
 1889 ÷ 2587. Mounted. (Young female.) Medicine Bow River, Ark. W. S. Wood. Sept. 6, 1856.
 12349. Mounted. (Albino.) Peshtigo, Wis. J. H. Leavenworth.
 2909. Antlers.
 763. Antlers. (Male.) Lewisburg, Pa. J. C. Barber.
 4174. Antlers.
 668. Antlers. (Male.) Cumberland, Md.
 3386. Antlers. (Male.) Ft. Mason, Tex. Maj. G. H. Thomas.
 914. Antlers. (Male.) Washington, D. C.
 961. Antlers. (Male.) Arkansas. J. M. Stanley.

Cariacus virginianus, (Boddært) Gray—Continued.

383. Antlers. (Male.) Ft. Mason, Tex. Maj. G. H. Thomas.
 3387. Antlers. (Male.) Ft. Mason, Tex. Maj. G. H. Thomas.
 896. Antlers. St. Louis, Mo. J. S. Bowman.
 3388. Antlers. (Male.) Ft. Mason, Tex. Maj. G. H. Thomas.
 667. Antlers. (Male.) Cumberland, Md.
 3062. Antlers. (Male.) Essex Co., N. Y.
 895. Antlers. (Male.) St. Louis, Mo. J. S. Bowman.
 9843. Antlers. Near Denver, Colo. E. Palmer.
 5077. Antlers. (Male.) Washington, D. C.
 5083. Antlers. Upper Missouri?

Cariacus virginianus, (Bodd.) Gray, *var. mexicanus*.—VIRGINIA DEER.

11859. Mounted. Talamanca, Costa Rica. Prof. W. M. Gabb.

Cariacus macrotis, (Say) Gray.—MULE DEER.—Central North America.

11864. Mounted.
 12583. Mounted. Cheyenne, Wyo. Capt. J. M. Gilliss, U. S. A.
 6615. Antlers. Prescott, Ariz. Dr. E. Coues.
 831. Antlers. Big Sioux. ? T. Culbertson.
 4175. Antlers.
 6918. Antlers. Ft. Laramie. Col. W. O. Collins.
 3682. Antlers. Mountains of New Mexico. Dr. J. S. Newberry.

Cariacus columbianus, (Rich.) Gray.—COLUMBIA BLACK-TAILED DEER.—Pacific Slope.

8154. Antlers. Puget Sound. J. G. Swan.
 3203. Antlers. Whidby's Island, Puget Sound, W. T. Dr. Geo. Suckley.
 5080. Antlers. Puget Sound. Dr. C. B. Kennerly.
 3204. Antlers. Whidby's Island, Puget Sound. Dr. Geo. Suckley.

Cervus dama, Linn.—FALLOW DEER (introduced).

1200. Antlers. Park, Clarke Co., Va. Col. J. Fuley.
 2257. Antlers. Clarke Co., Va. Col. J. Fuley.

DICOTYLIDÆ.**Dicotyles torquatus**, Cuv.—PECCARY.—Red River, Arkansas, and South.

12346. Mounted. Talamanca, Costa Rica. Talamanca Exped. Prof. W. M. Gabb.

ORDER, SIRENIA.**TRICHECHIDÆ.****Trichechus manatus**, Linn.—MANATEE.—Florida, West Indies, and N. E. South America.

12295. Mounted. Florida. P. T. Barnum.
 16037. Skeleton. Florida. H. A. Ward.

ORDER, CETE.
DELPHINIDÆ.

DELPHINAPTERINÆ.

Delphinapterus catodon, (Linn.) Gill.—WHITE-FISH or WHITE WHALE.—Arctic and Subarctic Seas (ascending large rivers).

12490. Cast. Gulf of St. Lawrence. G. R. Renfrew & Co., Quebec.

16038. Skeleton. Gulf of St. Lawrence. G. R. Renfrew & Co.

389. Photograph. U. S. Fish Commission.

Monodon monoceros, Linn.—NARWHAL.—Arctic Seas.

15304. Tusk. Greenland. Purchased from George Y. Nickerson.

DELPHININÆ.

Leucorhamphus borealis, (Peale) Gill.—RIGHT-WHALE PORPOISE.—Pacific Coast.

— . Skeleton.

Delphinus Bairdii, Dall.—BAIRD'S PORPOISE.—California Coast.

16042. Skeleton. California. W. H. Dall.

15403. Skull. San Gabriel River, Cal. Lieut. Bergland, U. S. A.

Delphinus bombifrons, Cope.—PORPOISE.—Atlantic Coast.

12481. ? Cast. New York Harbor. John Wallace.

Tursiops erebennus, (Cope) Gill.—PORPOISE.—Atlantic Coast.

15786. Skeleton. Rockaway, Long Id. Alfred Lawrence.

Tursiops Gillii, Dall.—COW-FISH.—Pacific Coast.

16043. Skeleton. California. W. H. Dall.

Lagenorhynchus perspicillatus, Cope.—SKUNK PORPOISE.—Eastern Coast.

12305. Cast. Cape Cod. Vinal N. Edwards.

Lagenorhynchus obliquidens, Gill.—STRIPED or COMMON PORPOISE.—Pacific Coast.

14329. Skeleton. California. C. M. Scammon.

Lagenorhynchus gubernator, Cope.—Eastern Coast.

— . Cast. Casco Bay, Me. U. S. Fish Commission.

Lagenorhynchus leucopleurus, (Raasch) Gray.—COW-FISH.—Eastern Coast.

12939. Cast. Cape Cod, Mass. U. S. Fish Commission.

Lagenorhynchus thicola, Gray.—PORPOISE.—West coast of North America.

Orca atra, Cope.—KILLER.—Pacific Coast.

13018. Jaw. California. Capt. C. M. Scammon.

Orca gladiator, (Bonnaterre) Gray.—KILLER.—Atlantic Coast.

11918. Skull. South Atlantic. S. F. Baird.

Phocæna vomerina, Gill.—BAY PORPOISE.—Pacific Coast.

16044. Skeleton. California. W. H. Dall.

Phocæna lineata, Cope.—STRIPED PORPOISE.—Atlantic Coast.

621. Photograph. U. S. F. C.

Phocæna brachycion, Cope.—THE SNUFFING PIG or HERRING HOG.—Atlantic Coast.

12302. Cast. Cape Cod. Vinal N. Edwards.

GLOBICEPHALINÆ.

Globicephalus Scammoni, Cope.—BLACK-FISH.—Pacific Coast.

9076. Skull. California. Capt. C. M. Scammon.

Globicephalus intermedius, (Harlan) Gray.—BLACK-FISH.—Atlantic Coast.

12479. Cast. (Fœtus.) Cape Cod. U. S. Fish Commission.

12480. Plaster cast, (7 feet.) Cape Cod. Edwards. Nov. 14, 1874.

12480. Cast.

12840. Cast 351. Cast of head. South Dennis, Mass. U. S. Fish Commission. 1875.

12841. Cast 352. Cast of head. South Dennis, Mass. U. S. Fish Commission. 1875.

Grampus griseus, (Cuv.) Gray.—GRAMPUS; COW-FISH.—North Atlantic.

15771 ÷ 12759, 508. Cast. Dec. 2, 1875.

15772 ÷ 12760, 503. Skulls. Nov. 29, 1875.

15773 ÷ 12761, 506. Cast of head and cast of whole. Nov. 30, 1875.

506 A. Cast. (Over entrance.)

622. Photograph. U. S. Fish Commission.

12940. Cast of head. Cape Cod, Mass. V. N. Edwards.

12941. Cast of head. Cape Cod, Mass. V. N. Edwards.

12942. Cast of head. Cape Cod, Mass. V. N. Edwards.

Grampus Stearnsii, Dall.—WHITE-HEADED or MOTTLED GRAMPUS.—Pacific Coast.

13021. Skeleton. California. W. H. Dall.

ZIPHIIDÆ.**ZIPHIINÆ.**

Mesoplodon Sowerbiensis, (Blainv.) Gervais.—SOWERBY'S WHALE.—Atlantic Coast.

ANARNACINÆ.

Anarnacus semijunctus, (Cope) Gill.—BOTTLE-HEAD WHALE.—Atlantic Coast.

PHYSETERIDÆ.**PHYSETERINÆ.**

Physeter macrocephalus, Linn.—SPERM WHALE.—Tropico-politan Seas.

25052. Iron model. Made by captain of whaling ship. J. H. Thompson. New Bedford, Mass.

16046. Jaws. U. S. Fish Commission.

16047. Jaws. National Institute.

25004. Wooden model. Capt. Benj. Russell. New Bedford, Mass.

KOGIINÆ.

Kogia Floweri, Gill.—PORPOISE SPERM WHALE.—Pacific Coast.

8016. Lower jaw. Lower California.

BALÆNOPTERIDÆ.**AGAPHELINÆ.**

Agaphelus gibbosus, (Cope) Cope.—SCRAGG WHALE.—Atlantic Ocean.

Rhachianectes glaucus, Cope.—GRAY WHALE.—Pacific Ocean.

13803. Skull. California. W. H. Dall.

MEGAPTERINÆ.

Megaptera versabilis, Cope.—HUMPBACK WHALE.—Pacific Coast.

13804. Vertebra. Aleutian Islands. W. H. Dall.

Megaptera osphyia, Cope.—HUMPBACK WHALE.—Atlantic Coast.

Eschrichtius robustus, Lilljeborg.—GRÄSÖ WHALE.—Atlantic Coast.

BALÆNOPTERINÆ.

Sibbaldius tectirostris, Cope.—FINBACK WHALE.—Atlantic Ocean.

16045. Skeleton. Cape Cod. U. S. Fish Commission.

Sibbaldius tuberosus, Cope.—FINBACK WHALE.—Atlantic Ocean.

Sibbaldius borealis, (Fischer) Geoffroy.—SULPHUR-BOTTOM WHALE.—Atlantic Ocean.

16039. Skeleton. Cape Cod. U. S. Fish Commission.

Sibbaldius sulfureus, Cope.—SULPHUR-BOTTOM WHALE.—Pacific Ocean.

Balænoptera rostrata, (Müller) Gray.—GRAMPUS.—Atlantic Coast.

Balænoptera velifera, Cope.—FINBACK WHALE; OREGON FINNER.—Pacific Ocean.

Balænoptera Davidsonii, Scammon.—SHARP-HEADED FINNER WHALE.—Pacific Coast.

16040. Skeleton. California. Capt. C. M. Scammon.

BALÆNIDÆ.

Balæna mysticetus, Linn.—BOWHEAD WHALE.—Arctic Seas.

12938. Model in plaster. From drawings and measurements of Capt. C. M. Scammon.

16041. Jaws. Arctic Ocean. U. S. Fish Commission.

Eubalæna Cullamach, (Chamisso) Cope.—PACIFIC RIGHT WHALE.—North Pacific.

12988. Model in plaster. From drawings and measurements of Capt. C. M. Scammon.

Eubalæna cisarctica, Cope.—RIGHT WHALE.—Atlantic Coast.

ORDER, INSECTIVORA.

TALPIDÆ.

Scalops aquaticus, (Linn.) Cuv.—Eastern United States.

3965. Mounted. (Male.) Washington, D. C. G. Exall.

5830. Mounted. (Female.) Washington, D. C. G. Exall.

3966. Mounted. District of Columbia, 1858. C. Drexler.

3964. Mounted. (Albino.) Virginia, October 30, 1846. D. F. Kent.

Scalops argentatus, Aud. & Bach.—SILVERY MOLE.—Western United States.

11351. Alcoholic. Mt. Carmel, Ill. R. Ridgway.

783. Mounted. Tremont, Ill. W. J. Shaw.

Scapanus Townsendii, (Bachman) Pomel.—OREGON MOLE.—
Pacific Slope.

3963. Mounted. Oregon. T. R. Peale. U. S. Exploring Expedition.
1963. Mounted. Ft. Steilacoom, Wash. Ter. Dr. George Suckley, U. S. A.

Scapanus Breweri, (Bachman) Pomel.—HAIRY-TAILED MOLE.—
Eastern United States.

823. Mounted. Cleveland, Ohio. Dr. J. P. Kirtland.

Condylura cristata, (Linn.) Illiger.—STAR-NOSED MOLE.—North-
ern cismontane States.

3968. Mounted. Washington, D. C.

ORDER, GLIRES.

SCIURIDÆ.

Sciurus cinereus, Linn.—FOX SQUIRREL.—Eastern United States.

4143. Mounted. District of Columbia. C. Drexler.
321 — 1240. Mounted. Western Missouri. Dr. P. R. Hoy. 1854.
4044. Mounted. (Male.) District of Columbia. A. R. Jenkins.

Sciurus carolinensis, Gmelin.—GRAY SQUIRREL.—United States.

4042. Mounted. District of Columbia. S. F. Baird.
334 ÷ 1252. Mounted. Racine, Wis. Rev. A. C. Barry.
332 ÷ 1250. Mounted. Racine, Wis. Dr. P. R. Hoy.
11071. Mounted. New York. J. G. Bell.
5844. Mounted. Washington, D. C. J. K. Townsend.

Sciurus fessor, Peale.—CALIFORNIA GRAY SQUIRREL.—Pacific
Slope.

4040. Mounted. (Male.) California. Dr. Heerman.

Sciurus Abertii, Woodhouse.—TUFT-EARED SQUIRREL.—Southern
Colorado, New Mexico, &c.

12576. Mounted. (Male.) Colorado Springs, Colo. C. E. Aiken.
12578. Mounted. (Male.) Colorado Springs, Colo. C. E. Aiken.
2430. Mounted. San Francisco Mts., N. M. Dr. Woodhouse.

Sciurus hudsonius, Pallas.—RED SQUIRREL; CHICKAREE.—
Cismontane United States and Alaska.

12435. Mounted. (Male.) Hartford, Minn. J. H. Batty.
9241. Mounted. New Brunswick. G. A. Boardman.
3264. Mounted. Laramie Peak. J. Henman.

Tamias striatus, (Linn.) Cuv.—CHIPMUNK.—Eastern United
States.

4013. Mounted. Washington, D. C. A. J. Falls.

Tamias quadrivittatus, (Say) Rich.—MISSOURI STRIPED SQUIRREL.—Pacific Slope, in mountains.

4661. Mounted. Yreka, Cal. W. Vielle.

4662. Mounted. Yreka, Cal. W. Vielle.

Tamias lateralis, (Say) Allen.—SAY'S STRIPED SQUIRREL.—Rocky Mountains, from Mexico northward.

9320. Mounted. Carson City, Nevada. U. S. Survey of Fortieth Parallel. Robert Ridgway. March, 1868.

Spermophilus grammurus, (Say) Bach.—CALIFORNIA GROUND SQUIRREL.—Western Texas and New Mexico west to Sierra Nevada Mountains.

1046÷2215. Mounted. Los Nogales, Sonora. Maj. W. H. Emory, U. S. A.

Spermophilus grammurus, (Say) Bach., *var. Beechyi*.—CALIFORNIA GROUND SQUIRREL.—Cala. and Lower Cala., west of Sierra Nevadas.

469. Mounted. Tejon Valley, Cal. Dr. A. L. Heerman.

470. Mounted. Tejon Valley, Cal. Dr. A. L. Heerman.

Spermophilus Harrisii, Aud. & Bach.—HARRIS' GROUND SQUIRREL.—The Great Interior Basin and Lower California.

471÷1600. Mounted. Mohave Desert. Lieut. R. S. Williamson.

Spermophilus Franklini, (Sabine) Rich.—GRAY GOPHER.—Northern Illinois, northward to the Saskatchewan.

985. Skin. Racine, Wis. Dr. P. R. Hoy.

Spermophilus tereticaudis, Aud. & Bach.—ROUND-TAILED GROUND SQUIRREL.—Arizona.

1584. Skin. Fort Yuma, Cal. Maj. G. H. Thomas.

Spermophilus tridecem-lineatus, (Mitchell) Aud. & Bach.—STRIPED GOPHER; PRAIRIE SQUIRREL.—The prairies of the United States.

437÷1303. Mounted. Head of Arkansas River. Capt. E. G. Beckwith.

Spermophilus mexicanus, (Erxleben) Wagner.—MEXICAN GROUND SQUIRREL.—Southwestern Texas and Southern New Mexico, southeastward into Mexico.

3662. Mounted. Eagle Pass, Texas. Dr. W. S. King, U. S. A.

Spermophilus Parryi, Rich.—PARRY'S MARMOT.—Northern parts of the Continent, from Hudson's Bay to Behring's Strait.

8736. Mounted. Pelly Lake. R. R. MacFarlane. June 21, 1864.

5789. Mounted. Lockhart River, H. B. T. B. R. Ross. July 4, 1860.

9366. Mounted. Kodiak. F. Bischoff. Sept. 13, 1868.

Spermophilus pilosoma, Bennett.—SONORA GROUND SQUIRREL.—Eastern base of the Rocky Mountains north to Western Wyoming.

2620. Fort Thorn, N. Mex. Dr. T. C. Henry.

Spermophilus richardsoni, (Sabine) Baird.—YELLOW GOPHER.—Plains of the Saskatchewan southward to the Upper Missouri.

12360. Skin. Fort Saunders, Wyo. Col. A. G. Brackett.

Spermophilus townsendi, Bach.—TOWNSEND'S GROUND SQUIRREL.—Plains of Columbia.

3775. Camp Lloyd, Utah. Capt. J. H. Simpson, U. S. A.

Spermophilus annulatus, Aud. & Bach.—RINGED GROUND SQUIRREL.—Plains of Colima, Mexico.

—Skins.

Cynomys ludovicianus, (Ord) Baird.—PRAIRIE DOG.—Great plains east of the Rocky Mountains.

4057. Mounted. (Female.) Platte River, Ark. Dr. Woodhouse.

7770 ÷ 345. Mounted. (Male.) Ft. Larned. Dr. E. Coues. May 31, 1854.

11458. Mounted. Colorado. J. H. Batty.

9559. Mounted. Soda Springs, Colo. Jas. Stevenson.

Cynomys columbianus, (Ord) Allen.—SHORT-TAILED PRAIRIE DOG.—The parks and plains within and west of the Rocky Mountains to the plains of Columbia.

5849. Mounted. Fort Bridger, Utah. C. Drexler.

Arctomys monax, Linn.—WOODCHUCK.—Eastern North America.

26788. Mounted. Wyoming, N. Y. H. A. Ward, Rochester, N. Y.

Arctomys caligatus, Eschscholtz.—NORTHWESTERN MARMOT.—Puget's Sound northward, west of the Rocky Mountains.

9493. Mounted. Ft. Kenag, Alaska. F. Bischoff. May 16, 1869.

12485. Mounted.

Arctomys flaviventer, Aud. & Bach.—YELLOW-FOOTED MARMOT.—Rocky Mountains west of the Pacific Coast.

8834. Mounted. Fort Anderson. R. McFarlane.

12753. Mounted. Near Fort Ellis, Montana. W. B. Platt.

HAPLODONTIDÆ.

Haplodontia leporina, Rich.—SEWELLEL; SHOWT'L.—Pacific Slope (especially about Puget's Sound).

1966. Mounted. (Male.) Ft. Steilacoom, Wash. Ter. Dr. Geo. Suckley.

4046. Mounted. Puget's Sound. Ex. Ex.

CASTORIDÆ.

Castor canadensis, Kuhl.—AMERICAN BEAVER.—United States generally.

9724. Mounted. (Young.) Henry Fork, G. R. Dr. F. V. Hayden. Oct., 1870.

GEOMYIDÆ.

Geomys bursarius, Rich.—POUCHED or POCKET GOPHER.—Missouri to Minnesota and Nebraska.

91. Mounted. Columbia River, Oregon. Acad. Nat. Sci. Phila.

Geomys tuza, (Ord,) Coues.—FLORIDA SALAMANDER.—Southeastern States.

11905. Skins. Jacksonville, Fla. G. Brown Goode.

Geomys castanops, Baird.—TEXAS POUCHED GOPHER.—Texas and New Mexico.

4007. Mounted. Bent's Fork. Lt. Abert.

Thomomys talpoides, (Rich) Baird.—CALIFORNIA GOPHER.—Northern and Western North America.

366÷1280. Mounted. Monterey, California. Lt. W. P. Trowbridge.

Thomomys clusius, Coues.—SMALL-FOOTED POUCHED GOPHER.—Rocky Mountains.

— Skins. Ft. Bridger, Utah.

MURIDÆ.

Mus decumanus, Pallas.—BROWN RAT.—United States generally. (Introduced.)

5847. Mounted. Washington, D. C.

Mus rattus, Linn.—BLACK RAT.—United States generally, but rare. (Introduced.)

12÷921. Skin. Foxburg, Pa. S. F. Baird.

Mus musculus.—COMMON MOUSE.—United States generally. (Introduced.)

4051. Mounted. (Albino.) District of Columbia.

Hesperomys leucopus, Wagner.—WHITE-FOOTED MOUSE.—Northern United States west of the Mississippi River.

1358. Mounted. Halifax, N. S. A. Downes.

Bull. N. M. No. 14—2

Neotoma floridana, Say & Ord.—FLORIDA RAT; WOOD RAT.—Atlantic Slope northward to New York.

4334. Mounted. Hillsboro, Va. N. Janney.

Neotoma cinerea, (Ord) Baird.—ROCKY MOUNTAIN RAT.—Pacific Slope and Upper Missouri.

5665. Mounted. Fort Liard, Hudson's Bay Terr. Ross and Hardesty.

Fiber zibethicus, Cuv.—MUSK RAT.—United States generally.

4060. Mounted. (Female.) District of Columbia. R. O. Pollard.

HYSTRICIDÆ.

Erethizon dorsatus, (Linn.) Flem., *var. dorsatus*.—WHITE-HAIRED PORCUPINE.—Northern United States.

11086. Mounted. Maine. John Wallace.

12402. Mounted. (Female.) Mt. Washington, N. H. C. J. King. July 3, 1875.

Erethizon dorsatus, (Linn.) F. Cuv., *var. epixanthus*.—YELLOW-HAIRED PORCUPINE.—Pacific Slope and Upper Missouri region.

9745. Mounted. Fort Bridger, Wyoming. Dr. F. V. Hayden, U. S. Geologist. Sept. 29, 1870.

SUBORDER DUPLICIDENTATA.

LEPORIDÆ.

Lepus timidus, Fab., *var. arcticus*.—POLAR HARE.—Arctic and Subarctic America.

1356. Mounted. (Young.) Newfoundland. John Downes. Summer 1856.

5181. Mounted. Newfoundland. J. R. Willis.

353. Mounted. Newfoundland. J. G. Bell. Winter 1854.

Lepus americanus, Erxl., *var. americanus*, Allen.—NORTHERN HARE; WHITE HARE.—Northeastern North America.

12478. Mounted. Cumberland, Md. D. P. Welpley.

Lepus americanus, Erxl.—NORTHERN HARE; WHITE RABBIT.—Alaska and British North America east of the Rocky Mountains.

4430. Mounted. (Male.) Ft. Liard, H. B. T. Robert Kennicott.

Lepus americanus, *var. virginianus*.—VIRGINIA HARE.—Eastern United States south of Nova Scotia.

11067. Mounted. J. G. Bell.

959. Mounted. Middleboro, Mass. J. W. P. Jenks.

Lepus americanus, Erxl., *var.* **Washingtonii**.—RED HARE.—
West of Rocky Mountains from Columbia River into British
Columbia.

3817. Mounted. Chiloweyuck Depot, Oregon. Dr. C. B. Kennerly, U. S. A.
June, 1859.

Lepus americanus, Erxl., *var.* **Bairdii**.—BAIRD'S HARE.—
Higher parts of Rocky Mountains.

4265. Mounted. (Female.) Wind River Mountains. Dr. F. V. Hayden.

5882. Mounted. Head of Flathead River, Washington Ty. Dr. C. B. Kennerly,
N. W. Boundary Survey. Winter 1860.

3791. Mounted. Ft. Bridger, Utah. J. H. Simpson.

303. Mounted. Shoalwater Bay. Dr. J. G. Cooper, Pacific R. R. Survey.
March 5, 1854.

Lepus campestris, Bach.—PRAIRIE HARE.—Central plains of
North America.

1552. Mounted. Upper Missouri. Dr. F. V. Hayden.

4240. Mounted. (Male.) Deer Creek. Dr. F. V. Hayden. Dec. 18, 1859.

69 ÷ 972. Mounted. Ft. Union, Neb. T. Culbertson.

12013. Mounted. (Male.) Frenchman's Creek, Montana. Dr. E. Coues, U. S. A.,
Northern Boundary Survey. July 5, 1874.

Lepus callotis, Wagler.—JACKASS HARE; JACK RABBIT.—South-
western United States.

1170. Mounted. Klamath Lake. Dr. J. S. Newberry.

8477. Mounted. (Female.) Ft. Whipple, Arizona. Dr. E. Coues, U. S. A.
May 17, 1865.

450. Mounted. Red River, Ark. Capt. Marcy.

Lepus californicus, Gray.—CALIFORNIA HARE.—California.

11070. Mounted. California. J. G. Bell.

1980. Mounted. Petaluma, California. E. Samuels.

12586. Mounted. Cape St. Lucas. John Xantus.

Lepus sylvaticus, Bach.—GRAY RABBIT.—Eastern United States.

12483. Mounted. Fairfax Co., Va. G. Brown Goode.

11069. Mounted. New York? J. G. Bell.

11068. Mounted. New York? J. G. Bell.

4017. Mounted. New York. J. G. Bell.

Lepus Bachmani, Waterhouse.—BACHMAN'S HARE.—Texas.

234; 243. Skins. Brownsville, Texas. Couch and Van Vliet.

Lepus sylvaticus, Bach., *var.* **Audubonii**.—AUDUBON'S HARE.
—Southern Arizona and California.

1596. Mounted. San Diego, Cal. Dr. J. F. Hammond. Dec., 1855.

1594. Mounted. (Female.) San Diego, Cal. Dr. J. F. Hammond. Dec. 28,
1856.

Lepus sylvaticus, Bach., *var. Nuttalli*.—SAGE RABBIT.—United States west of 97th meridian.

8896. Mounted. (Female.) Camp Grant, Ariz. Edward Palmer. Feb. 20, 1867.

Lepus Trowbridgii, Baird.—TROWBRIDGE'S HARE.—California.

1183. Mounted. Santa Clara, Cal. Dr. J. S. Newberry. Nov., 1855.

2974 ÷ 351. Mounted. Petaluma, Cal. E. Samuels.

Lepus aquaticus, Bach.—WATER RABBIT.—Gulf States.

2306. Mounted. Prairie Mer Rouge, La. James Fairie.

2309. Mounted. Prairie Mer Rouge, La. James Fairie.

Lepus palustris, Bach.—MARSH RABBIT.—Southeastern United States, on lowlands.

4018. Mounted. St. Simon's Island, Ga. Dr. Wilson. 1860.

1256. ? Mounted. Society Hill, S. C. M. A. Curtis. 1856.

1621. Mounted. St. Simon's Island, Ga. Dr. S. M. Wilson.

ORDER, EDENTATA.

DASYPODIDÆ.

Tatusia septem-cinctus, (Linn.,) Gray.—ARMADILLO.—Southwestern United States and South.

10197. Mounted. Tobasco, Mexico. C. H. Laszlo.

ORDER, AMARSUPIALI.

DIDELPHIDÆ.

Didelphys virginiana, Shaw.—POSSUM.—United States generally.

12951. Stuffed skins. Family group of nine. Washington, D. C. G. Brown Goode.

II. BIRDS.

From want of space it has not been thought desirable to exhibit a collection of North American birds.

III. REPTILES.

ORDER, CROCODILIA.

CROCODILIDÆ.

Crocodylus americanus, Seba.—FLORIDA CROCODYLE.—Southern Florida.

8384. Mounted. Biscayne Bay, Fla. Purchased from H. A. Ward.

Alligator mississippiensis, Daudin.—ALLIGATOR.—Southeastern North America.

9980. Cast. Jacksonville, Fla. F. C. Goode.

8543. Cast. Jacksonville, Fla. G. Brown Goode.

ORDER, TESTUDINATA.

TESTUDINIDÆ.

Testudo carolina, Linn.—FLORIDA GOPHER-TORTOISE.—Southeastern North America.

9627. Cast. Florida. G. Brown Goode.

Testudo Berlandieri, Agassiz.—Southwestern United States.

8926. Brownsville, Tex. Dr. J. C. Merrill, U. S. A.

EMYDIDÆ.

Malacoclemmys palustris, Gmelin.—DIAMOND-BACK TERRAPIN.—Coast from New York to Texas.

8709. Washington Market. J. W. Milner.

9028. Cast. Mandeville, La. G. Kohn.

Pseudemys rugosa, Shaw.—RED-BELLIED TERRAPIN.—New Jersey to Virginia.

8910. Cast. Kinston, N. C. J. W. Milner.

Pseudemys concinna, Leconte.—FLORIDA TERRAPIN.—Southeastern United States.

8907-8. Cast. Florida. Professor Baird.

Pseudemys mobiliensis,

9023. Cast. Mandeville, La. G. Kohn.

CHELYDRIDÆ.**Macrochelys lacertina**, Schw.—ALLIGATOR TURTLE.

9211. Cast. Greenville, Miss. S. W. Ferguson.

Chelydra serpentina, Linn.—SNAPPING TORTOISE.—Canada to Ecuador.

8916. Cast. Washington, D. C. Joseph Palmer.

TRIONYCHIDÆ.**Aspionectes ferox**, Schw.—SOFT-SHELL TURTLE.—Georgia to Western Louisiana.

8708. Cast. Milledgeville, Ga. Tarleton H. Bean.

8899. Florida. Professor Baird.

Aspionectes spinifer, Les.—SOFT-SHELL TURTLE.—Middle and northern tributaries of the Mississippi and the Saint Lawrence.

8309. Mounted. Rising Sun, Ind.

9614. Alcoholic. Mt. Carmel, Ill. R. Ridgway.

CHELONIIDÆ.**Chelonia mydas**, Schw.—GREEN TURTLE.—Atlantic Coast south of Long Island.

8392÷15267. Cast in papier-maché. New York market. E. G. Blackford.

Chelonia virgata, Schw.—PACIFIC GREEN TURTLE.—Pacific Coast.

9639. Cast. San Diego, Cal. G. N. Hitchcock.

Thalassochelys caouana, Linn.—LOGGERHEAD TURTLE.

8386÷15259. Cast. New York market. E. G. Blackford.

Eretmochelys imbricata, Linn.—HAWK'S BILL TURTLE.—Southern Atlantic Coast.

— . Cast. New York market. E. G. Blackford.

Eretmochelys squamata, Linn.—PACIFIC HAWK'S BILL TURTLE.—Pacific Coast.

12388. Shells. Fiji Island. U. S. Expl. Expedition.

SPHARGIDIDÆ.**Sphargis coriacea**, Rondelet.—LEATHERBACK TURTLE.—Atlantic Coast to Massachusetts.

8389—15263. Cast. New York market. E. G. Blackford.

V. FISHES.

ORDER, PEDICULATI.

MALTHEIDÆ.

Malthe cubifrons, Rich.—SEA BAT.—West Indian Fauna.

16727. Cast. St. Augustine, Fla. Dr. J. M. Laing, U. S. A.
800. Photograph. U. S. Fish Commission.

Malthe vespertilio, (Linn.) Cuv.—SEA BAT.—West Indian Fauna.

12575. Alcoholic specimen. Amazons. British Museum.

LOPHIIDÆ.

Lophius piscatorius, Linn.—GOOSE FISH; ANGLER.—Nova Scotia to Cape Hatteras.

15085. Alcoholic specimen. Tompkinsville, N. Y. Copley.
14910. Cast. Wood's Holl, Mass. U. S. Fish Commission. June 22, 1873.
16657. Cast. Wood's Holl, Mass. U. S. Fish Commission.
12, 13, 14, 15. Photographs. U. S. Fish Commission.

ANTENNARIIDÆ.

Pterophryne histrio, (Linn.) Gill.—MOUSE-FISH.—Pelagic.

20383. Alcoholic specimens. Wood's Holl, Mass. V. N. Edwards.

ORDER, PLECTOGNATHI.

MOLIDÆ.

Mola rotunda, Cuv.—SUN-FISH.—Newfoundland to Cape Hatteras.

15832. Cast. Noank, Conn. U. S. Fish Commission. Sept. 16, 1874.
15833. Cast. Noank, Conn. U. S. Fish Commission. Sept. 16, 1874.
1. Photograph. U. S. Fish Commission.
784. Color sketch. (Richard.) U. S. Fish Commission.

DIODONTIDÆ.

Chilomycterus geometricus, (Linn.) Kaup.—BUR-FISH.—
South of Cape Cod; West Indian Fauna, &c.

15572. Cast. New York market. E. G. Blackford. Oct. 7, 1875.
15883. Cast. Wood's Holl, Mass. U. S. Fish Commission. Aug. 1, 1873.
523-4-5. Color sketch. (Richard.) U. S. Fish Commission.

Chilomycterus fuliginosus, (De Kay,) Gill.

13938. Alcoholic specimen. Watch Hill, R. I. U. S. Fish Commission. Sept. 18, 1874.

Trichodiodon pilosus, (Mitch.) Bleeker.—HAIRY BOX-FISH.—
Cape Cod to Cape Hatteras.

— . Alcoholic specimen. Beesly's Point, N. J. Prof. S. F. Baird. 1854.

TETRODONTIDÆ.

Tetrodon lævigatus, (Linn.) Gill.—RABBIT-FISH.—Cape Cod to Florida.

14867. Cast. Vineyard Sound, Mass. U. S. Fish Commission. July 13, 1874.
2, 3. Photographs. U. S. Fish Commission.

Chilichthys turgidus, (Mitch.) Gill.—SWELL-FISH.—Cape Cod to Florida.

10740. Cast. Wood's Holl, Mass. U. S. Fish Commission.
499. Color sketch. (Richard.) U. S. Fish Commission.
615-16. Color sketch. Prof. Alex. Agassiz.

OSTRACIIDÆ.

Ostracium quadricorne, Linn.—COW-FISH.—West Indian Fauna.

10008. Cast. Bermudas. G. Brown Goode. March, 1872.
664. Color sketch. (Burkhardt.) Florida. Prof. Alex. Agassiz. Alive in Boston Aquarial Garden June, 1860.

Ostracium triquetrum, Linn.—CUCKOLD.—West Indian Fauna.

579-80. Color sketch. (Burkhardt.) Santa Cruz. Prof. Alex. Agassiz; Dr. Jeffries.

Lactophrys trigonus, (Linn.) Poey.—TRUNK-FISH.—West Indian Fauna; occasional in Massachusetts.

20610. Alcoholic specimens. Wood's Holl, Mass. V. N. Edwards.

BALISTIDÆ.

Balistes ringens, Linn.—SPOTTED FILE-FISH.—West Indian Fauna.

581. Color sketch. (Burkhardt.) Island of Sombbrero, W. I. Prof. Alex. Agassiz. Sept., 1859.

Balistes vetula, Linn.—OLDWIFE; FILE-FISH.—West Indian Fauna; accidental on coast.

14909. Cast. Wood's Holl, Mass. U. S. Fish Commission. Oct. 8, 1873.
11380. Photograph. U. S. Fish Commission.

Balistes capriscus,

15233. Alcoholic specimen. East Coast. John Sutherland.

Stephanolepis setifer, (Bennet) Gill.—STORER'S FILE-FISH.—
Nova Scotia to Florida.

16519. Alcoholic specimen. Wood's Holl, Mass. U. S. Fish Commission.
Sept., 1875.

617. Color sketch. (Burkhardt.) Cape Cod. Prof. Alex. Agassiz. Aug., 1859.

498. Color sketch. (Richard.) Wood's Holl, Mass. U. S. Fish Commission.
Aug., 1875.

Canthorhinus occidentalis.—West Indian Fauna, &c.

16746. Alcoholic specimen. Chesapeake Bay. Capt. John Evans. Oct., 1875.

Alutera cuspicauda, De Kay.—LONG-TAILED FILE-FISH.—Cape
Cod to Florida.

16341. Cast. Wood's Holl, Mass. U. S. Fish Commission. Sept. 13, 1875.

15569. Cast. New York. E. G. Blackford.

15827. Cast. New York market. E. G. Blackford.

15839. Cast. New York market. E. G. Blackford. Oct. 9, 1875.

412-13-14. Color sketches. U. S. Fish Commission.

Ceratacanthus aurantiacus, (Mitch.) Gill.—ORANGE FILE-
FISH.—Cape Cod to Florida.

14914. Cast. Wood's Holl, Mass. U. S. Fish Commission. Aug. 14, 1873.

15870. Cast. Wood's Holl, Mass. U. S. Fish Commission. Aug. 14, 1873.

14916. Cast. Wood's Holl, Mass. U. S. Fish Commission. Aug. 14, 1873.

5, 6, 7, 8, and 9. Photographs. U. S. Fish Commission.

500. Color sketch.

ORDER, LOPHOBRANCHII.

HIPPOCAMPIDÆ.

Hippocampus antiquorum, Leach.—SEA-HORSE; HORSE-FISH.
—Cape Cod to Cape Hatteras.

21044. Alcoholic specimen. St. George's Banks. G. Brown Goode.

SYNGNATHIDÆ.

Syngnathus Peckianus, Storer.—PIPE-FISH.—Newfoundland to
Cape Hatteras.

16492. Alcoholic specimen. Wood's Holl, Mass. U. S. Fish Commission.

ORDER, TELEOCEPHALI.

HETEROSOMATA.

SOLEIDÆ.

Achirus lineatus, (Linn.) Cuv.—AMERICAN SOLE; HOG CHOKER.
—Cape Cod to Florida.

15743. Cast, (upper side.) Wood's Holl, Mass. U. S. Fish Commission. Feb. 21, 1874.
15743. Cast, (under side.) Wood's Holl, Mass. U. S. Fish Commission. Feb. 21, 1874.
380. Photograph. U. S. Fish Commission.
448. Photograph, (upper side.)
449. Photograph, (under side.)
561. Color sketch. Prof. Alex. Agassiz.

Solea vulgaris, Quensel.—SOLE.—Coast of Europe.

12513. Cast. England.
16. Photograph. U. S. Fish Commission.

PLEURONECTIDÆ.

Euchalarodus Putnami, Gill.—PUTNAM'S FLAT-FISH.—Found only in Salem Harbor.

5368. Alcoholic specimen. Salem, Mass. F. W. Putnam.

Pseudopleuronectes americanus, (Walb.) Gill.—FLAT-FISH;
WINTER FLOUNDER.—Nova Scotia to Cape Hatteras.

14911. Cast. Wood's Holl, Mass. U. S. Fish Commission. July 22, 1873.
15692. Cast. Wood's Holl, Mass. U. S. Fish Commission. Dec., 1873.
15709. Cast. Wood's Holl, Mass. U. S. Fish Commission. Feb. 28, 1874.
14891. Cast. Wood's Holl, Mass. U. S. Fish Commission. Feb. 20, 1874.
14913. Cast. Wood's Holl, Mass. U. S. Fish Commission. Feb. 2, 1874.
15934. Cast. Wood's Holl, Mass. U. S. Fish Commission.
18, 19, 20, 21, 22, 330. Photographs. U. S. Fish Commission.
785. Color sketch. (Richard.) U. S. Fish Commission.

Myzopsetta ferruginea, (Storer) Gill.—RUSTY FLOUNDER.—
Nova Scotia to Cape Cod.

15068. Cast. New York market. E. G. Blackford.
15067. Cast. New York market. E. G. Blackford. March 22, 1875.
23. Photograph. U. S. Fish Commission.
786. Color sketch. (Richard.) U. S. Fish Commission.

Pleuronectes glaber, (Storer) Gill.—SMOOTH-BACK FLOUNDER.—
Northern New England Coast.

20873. Cast. Portland, Me. Tarleton H. Bean.

Glyptocephalus cynoglossus, (Linn.) Gill.—POLE FLOUNDER.
—Maine.

24. Photograph. U. S. Fish Commission.
12685. Alcoholic specimen. Treat's Island, Eastport, Me. U. S. Fish Commission. Aug., 1872.

Lophopsetta maculata, (Mitch.) Gill.—WATERY FLOUNDER;
SPOTTED TURBOT.—Cape Cod to Cape Hatteras.

15693. Cast. Wood's Holl, Mass. U. S. Fish Commission.
10662. Cast. Wood's Holl, Mass. U. S. Fish Commission.
25, 26. Photographs. U. S. Fish Commission.
780-1. Color sketch. (Richard.) U. S. Fish Commission.

Chenopsetta ocellaris, (De Kay) Gill.—COMMON FLOUNDER.—
Cape Cod to Cape Hatteras.

15177. Cast. Norfolk, Va. U. S. Fish Commission.
10721. Cast. Wood's Holl, Mass. U. S. Fish Commission.
14899. Cast. Block Island, R. I. U. S. Fish Commission. Sept. 24, 1874.
10684. Cast. Wood's Holl, Mass. U. S. Fish Commission.
15176. Cast. Norfolk, Va. U. S. Fish Commission.
27, 28. Photographs. U. S. Fish Commission.
533-4. Color sketch. (Richard.) U. S. Fish Commission.

Chenopsetta oblonga, (Mitch.) Gill.—FOUR-SPOTTED FLOUNDER.
—Cape Cod to Cape Hatteras.

10716. Cast. Wood's Holl, Mass. U. S. Fish Commission.
10661. Cast. Wood's Holl, Mass. U. S. Fish Commission.
29, 30. Photographs. U. S. Fish Commission.

Chenopsetta dentata, (Linn.) Gill.—SOUTHERN FLOUNDER.—
Cape Hatteras to Florida.

18048. Alcoholic specimen. St. John's River, Fla. Professor Baird.

Hippoglossus americanus, Gill.—HALIBUT.—Newfoundland to
Cape Hatteras.

15698. Cast. Eastern Mass. U. S. Fish Commission. Feb. 28, 1874.
15705. Cast. Eastern Mass. U. S. Fish Commission. Feb. 28, 1874.
16587. Cast. Boston, Mass. F. H. Johnson. Sept. 24, 1875.
15732. Cast.
31, 32. Photographs. U. S. Fish Commission.
767. Color sketch. (Richard.) U. S. Fish Commission.

Hippoglossoides limandoides, Günther.—SAND DAB.

21037. Alcoholic specimen. Halifax, N. S. U. S. Fish Commission. Sept. 11, 1877.
21818. Alcoholic specimen. Gloucester, Mass. U. S. Fish Commission. July 29, 1878.
14913. Cast. Wood's Holl, Mass. V. N. Edwards. Feb. 2, 1874.

Reinhardtius hippoglossoides, (Walb.) Gill.—GREENLAND
TURBOT.—Greenland.

14869. Cast, (upper side.) Newfoundland. E. G. Blackford. Feb., 1874.
14869. Cast. Newfoundland. E. G. Blackford. Feb., 1874.
33. Photograph. U. S. Fish Commission.
21564. Cast. Le Have Bank. U. S. Fish Commission.

Psettichthys melanostictus, Girard.—CALIFORNIA "SPOTTED
SOLE."—Coast of California.

16701. Cast. San Francisco, Cal. L. Stone. Jan. 27, 1876.
16699. Cast. San Francisco, Cal. L. Stone. Jan. 27, 1876.
16700. Cast. San Francisco, Cal. L. Stone. Jan. 27, 1876.
16699, 16700, 16701. Alcoholic specimens. San Francisco. U. S. Fish Commission.
36, 39. Photographs. U. S. Fish Commission.
777. Color sketch. U. S. Fish Commission.
754. Color sketch. (Agassiz.) Prof. Alex. Agassiz.

Platichthys stellatus, (Pall.) Gill.—ROUGH FLOUNDER.—Coast
of California.

16698. Cast. San Francisco, Cal. L. Stone.
38. Photograph. U. S. Fish Commission.
531-2. Color sketch. (Richard.) U. S. Fish Commission.
657. Color sketch. (Agassiz.) San Francisco. Prof. Alex. Agassiz. Nov.,
1859.

Parophrys vetulus.—"SOLE."—Coast of California.

17064. Alcoholic specimen. San Francisco, Cal. U. S. Fish Commission.
776. Color sketch. (Richard.) U. S. Fish Commission.

Ancylopsetta quadrocellata, Gill.

- 17123-4. Alcoholic specimens. Charleston, S. C. Prof. S. F. Baird. March,
1877.
17123. Cast. Charleston, S. C. Prof. S. F. Baird. March, 1877.

Rhombus maximus, Will.—TURBOT.—Coasts of Europe.

12511. Cast. England. Middleton, Carman & Co.
35, 391. Photograph. U. S. Fish Commission.

Rhombus lævis, Rondel.—BRILL.—Coasts of Europe.

12512. Cast. England. Middleton, Carman & Co.
34. Photograph. U. S. Fish Commission.

ANACANTHINI.

MACRURIDÆ.

Macrurus rupestris, Bl.—ONION-FISH.—North Atlantic.

15608. Cast. St. George's Banks. E. G. Blackford. Oct. 27, 1875.
783. Color sketch. (Richard.) U. S. Fish Commission.

Macrurus Bairdii, Goode & Bean.—SPIKE-TAIL.

21014. Alcoholic specimen. (Type.) Gulf of Maine. U. S. Fish Commission.
Aug. 19, 1877.

GADIDÆ.**Pollachius carbonarius**, (Linn.) Bon.—POLLACK.—Greenland to Cape Hatteras.

15971. Cast. Wood's Holl, Mass. U. S. Fish Commission.
16254. Cast. Martha's Vineyard. U. S. Fish Commission. July 30, 1875.
41, 42, 43. Photographs. U. S. Fish Commission.
787. Color sketch. (Richard.) U. S. Fish Commission.

Gadus morrhua, Linn.—COD-FISH.—Polar Regions to Cape Hatteras.

16770. Cast. Irish Sea. Liverpool Free Public Museum.
14902. Cast. New York market. E. G. Blackford. April 3, 1874.
15923. Cast. Portland, Me. U. S. Fish Commission.
44, 45, 381, 392. Photographs. U. S. Fish Commission.
610. Color sketch. Prof. Alex. Agassiz.

Microgadus proximus, (Girard) Gill.—TOM COD.—Coast of California.

16696. Cast. San Francisco, Cal. L. Stone. June 27, 1876.
47. Photograph. U. S. Fish Commission.
616. Color sketch. (Agassiz.) San Francisco. Prof. Alex. Agassiz. Nov.,
1859.

Microgadus tomcodus, (Walb.) Gill.—TOM COD; FROST-FISH.—Newfoundland to Cape Hatteras.

14884. Cast. Wood's Holl, Mass. U. S. Fish Commission. June 11, 1873.
14885. Cast. Wood's Holl, Mass. U. S. Fish Commission. June 11, 1873.
16608. Cast. Wood's Holl, Mass. U. S. Fish Commission. Sept. 27, 1875.
46. Photograph. U. S. Fish Commission.
662. Color sketch. (Agassiz.) Prof. Alex. Agassiz.

Melanogrammus æglefinus, (Linn.) Gill.—HADDOCK.—Newfoundland to Cape Hatteras.

14897. Cast. Wood's Holl, Mass. U. S. Fish Commission. June 18, 1873.
14896. Cast. Portland, Me. U. S. Fish Commission. Aug. 2, 1873.
48, 49, 50. Photograph. U. S. Fish Commission.
427. Color sketch. (Richard.) U. S. Fish Commission.

Phycis chuss, (Walb.) Gill.—HAKE.—Newfoundland to Cape Hatteras.

16598. Cast. Boston, Mass. F. H. Johnson.

Phycis tenuis, (Mitch.) De Kay.—SQUIRREL HAKE.—Newfoundland to Cape Hatteras.

15729. Cast. Wood's Holl, Mass. U. S. Fish Commission. June 18, 1873.
51. Photograph. U. S. Fish Commission.

Phycis Chesteri, Goode & Bean.—LONG-FINNED HAKE.

21840. Alcoholic specimen. (Type.) Gulf of Maine. U. S. Fish Commission.
Aug. 27, 1878.

Urophycis regius, (Walb.) Gill.—SPOTTED CODLING.—Cape Cod to Cape Hatteras.

788. Color sketch. (Emerton.) U. S. Fish Commission.
16845-6. Casts and alcoholic specimens. New York. Fred. Mather.

Molva vulgaris, Fleming.—LING.—Polar Seas.

16775. Cast. Coast of England. Liverpool Free Public Museum.
390. Photograph. U. S. Fish Commission.

Rhinonemus caudacuta, (Storer) Gill.—FOUR-BEARDED ROCK-LING.—Nova Scotia to Cape Cod.

16656. Alcoholic specimen. Wood's Holl, Mass. V. N. Edwards.

Ciliata argentata, (Reinh.) Gill.—MACKEREL MIDGE.—Greenland to Cape Hatteras.

16179. Alcoholic specimen. Vineyard Sound, Mass. U. S. Fish Commission.

Hypsiptera argentea, Günther.

21831. Alcoholic specimen. Off Cape May, N. J. Capt. R. H. Hurlbert.

Brosmius americanus, Gill.—CUSK.—Nova Scotia to Cape Cod.

16605. Cast. Boston, Mass. Wm. Prior, jr., & Co. Sept. 25, 1875.
15886. Cast. Wood's Holl, Mass. U. S. Fish Commission. Feb. 21, 1874.
52. Photograph. U. S. Fish Commission.
429. Color sketch. (Richard.) U. S. Fish Commission.

Haloperphyrus viola, Goode & Bean.—BLUE HAKE.

21837. Alcoholic specimen. (Type.) Banquereau. Capt. Jos. W. Collins. Aug.,
1878.

Lota maculosa, (Les.) Rich.—BURBOT.—Fresh waters of Northern North America.

16640. Cast. New York. E. G. Blackford.
16638. New York. E. G. Blackford.
53, 54, 55. Photographs. U. S. Fish Commission.
428. Color sketch. (Richard.) U. S. Fish Commission.
491. Color sketch. (Rötter.) Prof. Alex. Agassiz.

MERLUCIIDÆ.**Merlucius bilinearis**, (Mitch.) Gill.—WHITING; SILVER HAKE.—Nova Scotia to Cape Hatteras.

15747. Cast. U. S. Fish Commission.
15931. Cast. Wood's Holl, Mass. U. S. Fish Commission. Oct. 28, 1873.
56. Photograph. U. S. Fish Commission.
562. Color sketch. Prof. Alex. Agassiz.

OPHIDIIDÆ.**Ophidium marginatum**, Mitch.—Cape Cod to Cape Hatteras.

10762. Alcoholic specimen. Tompkinsville, N. Y. C. Copley.

LYCODIDÆ.**Zoarces anguillaris**, (Peck) Storer.—EEL POUT.—Newfoundland to Cape Hatteras.

14888. Cast. New York market. E. G. Blackford. March, 1874.

15694. Cast. Nantucket Shoals. U. S. Fish Commission.

651. Color sketch. Prof. Alex. Agassiz.

CRYPTACANTHIDÆ.**Cryptacanthodes maculatus**, Storer.—SPOTTED WRY-MOUTH.—Nova Scotia to Cape Cod.

16621. Provincetown, Mass. U. S. Fish Commission.

15889. Cast. Portland, Me. U. S. Fish Commission.

15890. Cast. Portland, Me. U. S. Fish Commission.

423. Color sketch. (Richard.) U. S. Fish Commission.

613. Color sketch. (Burkhardt.) Boston. Prof. Alex. Agassiz. Dec., 1861.

Cryptacanthodes inornatus, Gill.—GHOST-FISH.—Coast of Massachusetts.

1761. Alcoholic specimen. Maine. W. Stimpson.

AMMODYTIDÆ.**Ammodytes americanus**.—SAND EEL.

382. Photograph. U. S. Fish Commission.

422. Color sketch. (Richard.) U. S. Fish Commission.

STICHÆIDÆ.**Stichæus punctatus**, (Fabr.) Reinh.—North Atlantic Coast.

590. Color sketch. (Burkhardt.) Prof. Alex. Agassiz.

21068. Alcoholic specimen. Halifax, N. S. U. S. Fish Commission. Sept. 4, 1877.

Eumesogrammus subbifurcatus, (Storer) Gill.—Nova Scotia to Cape Cod.

21067. Alcoholic specimen. Halifax, N. S. U. S. Fish Commission. Aug. 25, 1877.

XIPHIDIONTIDÆ.

Murænoides mucronatus, (Mitch.,) Gill.—ROCK EEL.—Nova Scotia to Cape Hatteras.

13847. Alcoholic specimen. Eastport, Me. U. S. Fish Commission.
488. Color sketch. Prof. Alex. Agassiz.

Murænoides ornatus, (Girard) Gill.—PACIFIC ROCK EEL.—Pacific Coast.

639. Color sketch. (Agassiz.) Ft. Roberts, Gulf of Georgia, Wash. Terr. Prof. Alex. Agassiz. July, 1859.

ANARRHICHADIDÆ.

Anarrhichas vomerinus, (Ag.) Storer.—WOLF-FISH.—Greenland to Cape Hatteras.

16439. Cast. Boston, Mass. F. H. Johnson. Sept. 8, 1875.
14900. Cast. Coxswain's Ledge, R. I. U. S. Fish Commission. July 25, 1875.
57. Photograph. U. S. Fish Commission.
770. Color sketch. (Richard.) U. S. Fish Commission.

Anarrhichas lupus, Linn.

21875. Specimen in brine. Gloucester. U. S. Fish Commission. 1878.

BATRACHIDÆ.

Batrachus tau, Linn.—TOAD-FISH; OYSTER-FISH.—Nova Scotia to Gulf of Mexico.

10743. Cast. Wood's Holl, Mass. U. S. Fish Commission.
501-2. Color sketch. (Richard.) U. S. Fish Commission.

Porichthys notatus.—Pacific Coast.

640. Color sketch. (Agassiz.) Simiahmoo, Wash. Terr. Prof. Alex. Agassiz. June, 1859.

URANOSCOPIDÆ.

Astroscopus anoplus, (Cuv. & Val.) Brevoort.—NAKED STAR-GAZER.—New York to Florida.

4622. Alcoholic specimen. Norfolk, Va. Prof. Theo. Gill.
571. Color sketch. (Burkhardt.) Pensacola, Fla. Prof. Alex. Agassiz; Dr. Jeffreys. April, 1854.
572. Color sketch. (Burkhardt.) Hampton Roads, Va. Prof. Alex. Agassiz; T. Leib. April, 1854.
584. Color sketch. (Burkhardt.) Jacksonville, Fla. Prof. Alex. Agassiz. 1853.
585. Color sketch. (Burkhardt.) Charleston, S. C. Prof. Alex. Agassiz. 1854.
586. Color sketch. (Burkhardt.) Coney Island, N. Y. Prof. Alex. Agassiz. April, 1854.

CYCLOPTERIDÆ.**Cyclopterus lumpus**, Linn.—LUMP-FISH.—North Atlantic.

15688. Cast. New York. E. G. Blackford. May 15, 1874.
 15730. Cast. New York. E. G. Blackford. April 18, 1874.
 16660. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 58. Photograph. U. S. Fish Commission.
 788. Color sketch. (Emerton.) Young specimen. Fisher's Island Sound.
 U. S. Fish Commission. Aug., 1874.

LIPARIDIDÆ.**Liparis lineata**, (Lepechin) Kroyer.—STRIPED LIPARIS.—North Atlantic.

13960. Alcoholic. Watch Hill Reef, R. I. U. S. Fish Commission. Aug., 1874.
 788. Color sketch. (Emerton.) U. S. Fish Commission.

Liparis Montagui, Don.—SEA SNAIL.—North Atlantic.

20432. Alcoholic. Wood's Holl, Mass. U. S. Fish Commission.

TRIGLIDÆ.**Dactylopterus volitans**, (Linn.) Lacep.—FLYING GURNARD.—Temperate and Tropical Atlantic and Mediterranean.

15873. Cast. Wood's Holl, Mass. U. S. Fish Commission. Aug. 8, 1873.
 —. Color sketch. (Richard.) U. S. Fish Commission.

Prionotus carolinus, (Linn.) Cuv. & Val.—BROAD-FINGERED SEA ROBIN.—Cape Cod to Florida.

59. Photograph. U. S. Fish Commission.
 443. Color sketch. (Richard.) U. S. Fish Commission.
 566. Color sketch. (Burkhardt.) Prof. Alex. Agassiz.

Prionotus evolans, (Linn.) Gill.—STRIPED SEA ROBIN.—Cape Cod to Florida.

15735. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 15727. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 16411. Cast. Wood's Holl, Mass. U. S. Fish Commission. Sept. 25, 1875.
 60, 61, 62. Photographs. U. S. Fish Commission.
 401, 402. Color sketch. (Richard.) U. S. Fish Commission.

AGONIDÆ.**Aspidophoroides monoptygius**, (Bloch.) Storer.—Polar Seas and south to Connecticut.

21700. Alcoholic. Massachusetts Bay. U. S. Fish Commission.

COTTIDÆ.

Cottus octodecimspinosus, Mitch.—SCULPIN.—Nova Scotia to Cape Hatteras.

16437. Cast. Boston, Mass. F. H. Johnson. Sept. 8, 1875.

63. Photograph. U. S. Fish Commission.

537-8. Color sketch. Prof. Alex. Agassiz.

Cottus grœnlandicus, Cuv. & Val.—GREENLAND SCULPIN.—Polar Regions to Cape Cod.

16436. Cast. Boston, Mass. F. H. Johnson.

65. Photograph. U. S. Fish Commission.

545. Color sketch. Prof. Alex. Agassiz.

Cottus Mitchilli, Cuv. & Val.—PIGMY SCULPIN.—New England Coast.

14806. Alcoholic specimens. Wood's Holl, Mass. U. S. Fish Commission.

62. Photograph. U. S. Fish Commission.

546. Color sketch. Prof. Alex. Agassiz.

Uranidea viscosa, (Hald.) De Kay.—AMERICAN MILLER'S THUMB.

609. Color sketch. (Roetter.) Plymouth, Mass. Prof. Alex. Agassiz. March, 1869.

HEMITRIPTERIDÆ.

Hemitripteris americanus, (Gmel.) Cuvier.—SEA RAVEN.—Newfoundland to New York; Seas of Japan.

15736. Cast. Wood's Holl, Mass. U. S. Fish Commission.

16414. Cast. Wood's Holl, Mass. U. S. Fish Commission. Sept. 2, 1875.

66, 67. Photographs. U. S. Fish Commission.

471-2. Photographs.

476. Photograph of young.

SCORPÆNIDÆ.

Sebastes marinus, (Linn.) Lütken.—NORWAY HADDOCK; HEM-DURGAN; RED PERCH.—Polar Seas and south to Cape Cod.

— Alcoholic. Eastport, Me. U. S. Fish Commission.

Sebastes viviparus, Kroyer.—ROSE-FISH.—North Atlantic.

15879. Cast. Wood's Holl, Mass. U. S. Fish Commission.

397. Photograph. U. S. Fish Commission.

789. Color sketch. Prof. Alex. Agassiz.

Sebastomus rosaceus, (Girard) Gill.—ROSY ROCK-FISH.—Coast of California.

16688. Cast. San Francisco, Cal. L. Stone.

68. Photograph. U. S. Fish Commission.

Sebastomus auriculatus, (Girard) Gill.—BLACK-EARED ROCK-FISH.—Coast of California.

612. Color sketch. (Agassiz.) San Francisco, Cal. Prof. Alex. Agassiz. Nov., 1859.

Sebastomus fasciatus, (Girard) Gill.—BANDED ROCK-FISH.—Coast of California.

483. Color sketch. (Richard.) San Francisco. Livingston Stone. U. S. Fish Commission. March, 1876.

614. Color sketch. (Agassiz.) Deep Bay, Mayne Id., W. T. Prof. Alex. Agassiz. May 20, 1859.

Sebastomus elongatus, (Girard) Gill.—Pacific Coast.

643. Color sketch. (Agassiz.) San Francisco. Prof. Alex. Agassiz. Nov., 1859.

Sebastosomus melanops, (Girard) Gill.—BLACK-HEADED ROCK-FISH.—Coast of California.

653. Color sketch. (Agassiz.) San Francisco. Prof. Alex. Agassiz. Nov., 1859.

16689. Cast. San Francisco, Cal. L. Stone.

482. Color sketch. (Richard.) U. S. Fish Commission.

Sebastodes paucispinis, (Ayres) Gill.—Coast of California.

637. Color sketch. (Agassiz.) San Francisco. Prof. Alex. Agassiz. Nov., 1859.

Chirus constellatus, (Girard) Gill.—"ROCK TROUT."—Coast of California.

16697. Cast. San Francisco, Cal. L. Stone.

69. Photograph. U. S. Fish Commission.

455. Photograph. U. S. Fish Commission.

Chirus pictus, Girard.—Pacific Coast.

642. Color sketch. (Agassiz.) San Francisco. Prof. Alex. Agassiz. Nov., 1859.

Chirus guttatus, Girard.—Coast of California.

638. Color sketch. (Agassiz.) San Francisco. Prof. Alex. Agassiz. Nov., 1859.

SCARIDÆ.**Scarus squalidus**, Poey.—TAWNY PARROT-FISH.—West Indian Fauna.

973. Stuffed skin. Havana market. Prof. F. Poey.

Scarus Abildgaardii.—PARROT-FISH.—West Indian Fauna.

9738. Stuffed skin. Havana market. Prof. F. Poey.

Scarus radians, Val.—SPANISH PORGY.—West Indian Fauna.

550. Color sketch. (Burkhardt.) New Providence. Prof. Alex. Agassiz;
F. S. Shaw. April, 1861.

Pseudoscarus cœruleus.—BLUE PARROT-FISH; KILMAGORE.—
West Indian Fauna.

9733. Stuffed skin. Havana market. Prof. F. Poey.

LABRIDÆ.

Tautoga onitis, (Linn.) Günther.—TAUTOG; BLACK-FISH.—Bay of
Fundy to South Carolina.

10598. Cast. Wood's Holl, Mass. U. S. Fish Commission.
15622. Cast. Wood's Holl, Mass. U. S. Fish Commission.
14893. Cast. Chesapeake Bay. U. S. Fish Commission. May 12.
10599. Cast. Wood's Holl, Mass. U. S. Fish Commission. May 12.
10643. Cast. Wood's Holl, Mass. U. S. Fish Commission.
15959. Cast. Wood's Holl, Mass. U. S. Fish Commission.
10599. Cast. Wood's Holl, Mass. U. S. Fish Commission.
70, 71. Photographs. U. S. Fish Commission.
450. Color sketch. (Adult.) (Richard.) U. S. Fish Commission.
451. Color sketch. (Young.) U. S. Fish Commission.
554. Color sketch. (Burkhardt.) Prof. Alex. Agassiz.
661. Color sketch. Prof. Alex. Agassiz.

Tautogolabrus adspersus, (Walb.) Gill.—CUNNER; CHOGSET.—
Newfoundland to Cape Hatteras.

14894. Cast. Wood's Holl, Mass. U. S. Fish Commission.
10746. Cast. Wood's Holl, Mass. U. S. Fish Commission.
381. Photograph. U. S. Fish Commission.
383. Photograph.
645. Color sketch. Prof. Alex. Agassiz.
431-433. Color sketch. U. S. Fish Commission.

Harpe rufus (Linn.) Gill.—SPANISH LADY-FISH.—West Indian
Fauna.

597. Color sketch. (Burkhardt.) Santa Cruz. Prof. Alex. Agassiz; Dr.
Jeffries.

Chærojulis radiatus, (Linn.) Goode.—BLUE-FISH.—West Indian
Fauna.

596. Color sketch. (Burkhardt.) New Providence. Prof. Alex. Agassiz; F.
S. Shaw. April, 1861.

Lachnolæmus falcatus, (Linn.) Val.—West Indian Fauna.

20780. Cast. Key West, Fla. E. G. Blackford.
598. Color sketch. Prof. Alex. Agassiz.
599. Color sketch. (Burkhardt.) Prof. Alex. Agassiz.
600. Color sketch. Prof. Alex. Agassiz.
601. Color sketch. Prof. Alex. Agassiz.

POMACENTRIDÆ.

Glyphidodon saxatilis, (Linn.) Cuv.—SERGEANT-MAJOR.—West Indian Fauna.

589. Color sketch. (Burkhardt.) Prof. Alex. Agassiz.

591. Color sketch. (Dall.) Bermudas. Alive in Barnum's Aquarium. Prof. Alex. Agassiz. Dec., 1862.

Pomacentrus leucostictus, M. & T.—West Indian Fauna.

21703. Alcoholic. Ft. Jefferson, Fla. Thos. Moore.

Heliastes insolatus, C. & V.—West Indian Fauna.

21704. Alcoholic. Ft. Jefferson, Fla. Thos. Moore.

EMBIOTOCIDÆ.

Embiotoca Webbi, Girard.—Coast of California.

626. Color sketch. (Agassiz.) San Francisco. Prof. Alex. Agassiz. Nov., 1859.

Embiotoca Jacksoni, Agassiz.—Coast of California.

625. Color sketch. (Agassiz.) San Francisco. Prof. Alex. Agassiz. Nov., 1859.

Tæniotoca lateralis, (Ag.) A. Ag.—STRIPED PERCH.—Coast of California.

16691. Cast. San Francisco, Cal. L. Stone.

72. Photograph. U. S. Fish Commission.

456. Photograph. U. S. Fish Commission.

658. Color sketch. (Agassiz.) Crescent City, Cal. Prof. Alex. Agassiz. May, 1859.

659. Color sketch. (Female.) (Agassiz.) San Francisco. Prof. Alex. Agassiz. Nov., 1859.

660. Color sketch. San Francisco. Prof. Alex. Agassiz. April, 1860.

Damalichthys vacca, Girard.—Coast of California.

627. Color sketch. (Agassiz.) San Francisco. Prof. Alex. Agassiz. April, 1860.

Metrogaster aggregatus, Ag.—Pacific Coast.

641. Color sketch. (Female.) (Agassiz.) San Francisco, Cal. Prof. Alex. Agassiz. Dec., 1859.

Hypsurus Caryi, Agass.—PERCH.—Pacific Coast.

606. Color sketch. San Francisco, Cal. Prof. Alex. Agassiz. April 1, 1860.

Phanerodon furcatus, Girard.—Coast of California.

636. Color sketch. (Female.) (Agassiz.) San Francisco. Prof. Alex. Agassiz. Nov., 1859.

Amphistichus argenteus, Ag.—Coast of California.

635. Color sketch. (Agassiz.) (Male.) San Francisco. Prof. Alex. Agassiz. April, 1850.

Amphistichus similis, Girard.—Coast of California.

634. Color sketch. (Agassiz.) San Francisco. Prof. Alex. Agassiz. Nov., 1859.

Rhachochilus toxotes, Agassiz.—Coast of California.

633. Color sketch. (Agassiz.) San Francisco. Prof. Alex. Agassiz. March, 1860.

Holconotus pulchellus, A. Ag.—Coast of California.

632. Color sketch. (Male.) (Agassiz.) San Francisco. Prof. Alex. Agassiz. April, 1860.

Holconotus rhodoterus, Girard.—Coast of California.

641. Color sketch. (Female.) (Agassiz.) San Francisco. Prof. Alex. Agassiz. Dec., 1859.

Hyperprosopon argenteus, Gibbon.—Coast of California.

620. Color sketch. (Female.) (Agassiz.) San Francisco. Prof. Alex. Agassiz. March, 1860.

628. Color sketch. (Female.) (Agassiz.) San Francisco. Prof. Alex. Agassiz. April, 1860.

Abeona Trowbridgii, Girard.—Coast of California.

629. Color sketch. (Female.) (Agassiz.) California. Prof. Alex. Agassiz.

TENTHIDIDÆ.**Acanthurus chirurgus**, (Bl.) Schn.—DOCTOR-FISH.—West Indian Fauna.

569. Color sketch. (Burkhardt.) Florida. Prof. Alex. Agassiz. Alive in Boston Aquarial Gardens. June, 1860.

570. Color sketch. (Burkhardt.) Florida. Prof. Alex. Agassiz. Alive in Boston Aquarial Gardens. June, 1860.

Acanthurus nigricans, (Linn.) Gill.—BLACK DOCTOR-FISH.—West Indian Fauna and occasional north.

21367. Alcoholic. Bermudas. G. Brown Goode.

21693. Dried specimen. Key West, Fla. Thomas Moore. Nov., 1878.

CHAETODONTIDÆ.**Sarothrodus capistratus**, (Linn.) Poey.—COQUETTE.—West Indian Fauna.

588. Color sketch. (Burkhardt.) New Providence. Prof. Alex. Agassiz; F. S. Shaw. April, 1861.

592. Color sketch. (Burkhardt.) Prof. Alex. Agassiz.

603. Color sketch. Prof. Alex. Agassiz.

Sarothrodus maculocinctus, Gill.

16955. Alcoholic specimens. Wood's Holl, Mass. U. S. Fish Commission. 1876.

Holacanthus tricolor, (Bl.) Lac.—BLACK ANGEL-FISH.—West Indian Fauna.

593. Color sketch. (Burkhardt.) Santa Cruz. Prof. Alex. Agassiz; Dr. Jeffries.

594. Color sketch. (Burkhardt.) Sombrero Id., W. I. Prof. Alex. Agassiz; S. R. Knox.

Holacanthus ciliaris, (Linn.) Lac.—ANGEL-FISH.—West Indian Fauna.

575. Color sketch. (Burkhardt.) Florida. Prof. Alex. Agassiz. Alive in Boston Aquarial Gardens. June, 1860.

576. Color sketch. (Burkhardt.) Florida. Prof. Alex. Agassiz. Alive in Boston Aquarial Gardens. June, 1860.

577. Color sketch. (Burkhardt.) Florida. Prof. Alex. Agassiz. Alive in Boston Aquarial Gardens. June, 1860.

21876. Alcoholic. Bermudas. G. Brown Goode.

583. Color sketch. (Burkhardt.) Bermudas. Prof. Alex. Agassiz. Alive in Barnum's Aquarium. 1862.

Pomacanthus arcuatus, (Linn.) Cuv.—PALOMETTA.—West Indian Fauna.

602. Color sketch. (Burkhardt.) Florida. Prof. Alex. Agassiz. Alive in Boston Aquarial Garden. June, 1860.

XIPHIIDÆ.**Xiphias gladius**, SWORD-FISH.—Atlantic and Mediterranean.

16126. Cast in *papier-maché*. Off Noman's Land, Mass. U. S. Fish Commission. Aug., 1875.

21699. Sword $1\frac{5}{8}$ inches long. Taken from nostril of *Lamna cornubica*. Gloucester, Mass. U. S. Fish Commission. Sept. 26, 1878.

Tetrapturus albidus, Poey.—SPIKE-FISH.—Cape Cod to West Indies.

15834. Cast. Wood's Holl, Mass. U. S. Fish Commission. July 23, 1873.

73. Photograph. U. S. Fish Commission.

411. Water-color sketch. U. S. Fish Commission.

Histiophorus americanus, Cuv. & Val.—SAIL-FISH.—Atlantic Coast of America.

16634. Cast. Wood's Holl, Mass. U. S. Fish Commission. Aug., 1872.

74. Photograph. U. S. Fish Commission.

TRICHIURIDÆ.**Trichiurus lepturus**, Linn.—HAIR-TAIL; SCABBARD-FISH.—Temperate and Tropical Atlantic.

14874. Cast. Wood's Holl, Mass. U. S. Fish Commission.

559. Color sketch. (Burkhardt.) Prof. Alex. Agassiz.

SCOMBRIDÆ.**Scomber scombrus**, Linn.—MACKEREL.—Northern Atlantic.

16443. Cast. New York market. E. G. Blackford. Sept. 10, 1875.
 10604. Cast. (Male.) Washington market. S. F. Baird.
 10650. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 10650. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 76, 77, 78, 393, 395. Photographs. U. S. Fish Commission.
 755-6-7. Color sketches. U. S. Fish Commission.
 654. Color sketch. Prof. Alex. Agassiz.

Sarda pelamys, (Linn.) Cuv.—BONITO.—Atlantic and Mediterranean.

16325. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 15748. Cast. New York market. E. G. Blackford.
 79, 80, 81. Photographs. U. S. Fish Commission.
 467-8. Color sketches. (Richard.) Wood's Holl. U. S. Fish Commission.
 1875.
 558. Color sketch. New York. Prof. Alex. Agassiz. Oct. 20, 1847.

Orcynus secundi-dorsalis, (Storer) Gill.—TUNNY; HORSE-MACKEREL.—Newfoundland to Florida.

16509. Cast. New York market. E. G. Blackford.
 82, 83, 84. Photographs. U. S. Fish Commission.
 436, 37, 96, 513. Color sketches. (Richard.) U. S. Fish Commission.

Orcynus alliteratus, (Raf.) Gill.—LITTLE TUNNY; ALBICORE.—Pelagic.

15710. Cast. Noank, Conn. U. S. Fish Commission.
 15683. Cast. Noank, Conn. U. S. Fish Commission.
 85. Photograph. U. S. Fish Commission.
 497. Color sketch. (Richard.) U. S. Fish Commission.

Orcynus pelamys, (Linn.) Poey.—OCEANIC BONITO.—Temperate and Tropical Seas.

21852. Alcoholic. Chilmark, Mass. U. S. Fish Commission.
 21562-3. Casts. Wood's Holl, Mass. U. S. Fish Commission.
 21566. Alcoholic. New York market. E. G. Blackford.

Orcynus alalonga, (Gmelin) Risso.—LONG-FINNED BONITO.—Atlantic, Mediterranean.

21844. Alcoholic. Banquereau. Capt. Wm. Thompson.

Orcynus argenti-vittatus, (C. & V.) Goode & Bean?—Atlantic.

21702. Skins. Banquereau. Capt. Wm. Thompson.

Cybium maculatum, (Mitch.) Cuv.—SPANISH MACKEREL.—Atlantic shores of Tropical and Temperate America.

15367. Cast. Norfolk, Va. U. S. Fish Commission.
 16407. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 15750. Cast. New York. E. G. Blackford.
 86. Photographs. U. S. Fish Commission.
 514. Color sketch. (Richard.) U. S. Fish Commission.
 663. Color sketch. Prof. Alex. Agassiz.

Cybium regale, (Bl.) Cuv.—SPOTTED CERO.—West Indian Fauna and north to Cape Cod.

16522. Cast. Key West, Fla. E. G. Blackford.
 87, 88, 89. Photographs. U. S. Fish Commission.
 405-515. Color sketch. (Richard.) U. S. Fish Commission.
 21612. Stuffed. Cuba. Prof. Felipe Poey.

Cybium caballa, Cuv. & Val.—CERO.—Atlantic Shores of Tropical and Temperate America.

16478. Cast. New York market. E. G. Blackford. Sept. 14, 1875.
 90, 91, 92, 93, 94, and 95. Photographs. U. S. Fish Commission.
 405-486-7. Color-sketch. (Richard.) U. S. Fish Commission.
 21611. Stuffed. Cuba. Prof. Felipe Poey.

CARANGIDÆ.**Vomer setipinnis**, (Mitch.) Ayres.—SILVER-FISH.—Maine to Florida. West Indian Fauna.

16915. Cast. Wood's Holl, Mass. V. N. Edwards. Sept. 7, 1873.
 16315. Cast. New York. E. G. Blackford.

Argyreus vomer, Lac.—SILVER-FISH.—Cape Cod to Florida, and West Indian Fauna.

16475. Cast. New York. E. G. Blackford.
 15905. Cast. Wood's Holl, Mass. V. N. Edwards.
 96. Photograph. U. S. Fish Commission.
 440, 495. Color sketches. (Richard.) U. S. Fish Commission.

Paratractus pisquetus, (Cuv. & Val.) Gill.—YELLOW CRE-VALLÉ.—Cape Cod to Florida.

16471. Cast. Wood's Holl, Mass. U. S. Fish Commission. Sept. 14, 1875.
 15843. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 15888. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 15887. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 98, 99, 100. Photographs. U. S. Fish Commission.
 778-9. Color sketches. (Richard.) U. S. Fish Commission.

Trachurops crumenophthalmus, (Bloch.) Gill.—BIG-EYED SCAD; GOGGLE-EYE.—Pelagic.

16481. Alcoholic. New York market. E. G. Blackford.
 97. Photograph. U. S. Fish Commission.

Decapterus punctatus, (Mitch.) Gill.—ROUND ROBIN.—West Indian Fauna and north to Massachusetts.

18951. Alcoholic. Wood's Holl, Mass. U. S. Fish Commission.
21365. Alcoholic. Bermudas. G. Brown Goode.

Decapterus macarellus, (C. & V.) Gill.—MACKEREL SCAD.—West Indian Fauna and north to Massachusetts.

16239. Alcoholic specimen. Wood's Holl, Mass. U. S. Fish Commission.
21630. Alcoholic. Newport, R. I. Samuel Powel.

Carangus hippos, (Linn.) Gill.—HORSE CREVALLÉ.—Atlantic Coasts of Temperate and Tropical America, East Indian and Australian Seas.

14859. Cast. Florida. E. G. Blackford.
101. Photograph. U. S. Fish Commission.
21654. Alcoholic. Newport, R. I. Samuel Powel.

Carangus chrysos, (Mitch.) Gill.—YELLOW MACKEREL.—West Indian Fauna and north to Cape Cod.

15708. Cast. Wood's Holl, Mass. U. S. Fish Commission. Sept. 15, 1873.
15746. Cast. Wood's Holl, Mass. U. S. Fish Commission. Oct. 8, 1873.
15696. Cast. Wood's Holl, Mass. U. S. Fish Commission.
102, 103. Photographs. U. S. Fish Commission.

Blepharichthys crinitus, (Akerly) Gill.—THREAD-FISH.—West Indian Fauna and north to Cape Cod.

16520. Cast. Wood's Holl, Mass. U. S. Fish Commission. Sept. 18, 1875.
105-105. Photographs. U. S. Fish Commission.
475. Color sketch. (Richard.) U. S. Fish Commission.

Zonichthys fasciatus, (Bloch.) Sw.—BERMUDA BONITO; MED-REGAL.—Cuba, South Carolina, Bermuda.

15828. Cast. New York. E. G. Blackford.
494. Color sketch. U. S. Fish Commission.

Trachinotus carolinus, (Linn.) Gill.—POMPANO.—Atlantic Coasts of America south of Cape Cod.

15904. Cast. Norfolk, Va. U. S. Fish Commission. June 20, 1873.
15809. Cast. New York market. E. G. Blackford. October 12, 1875.
106, 107. Photographs. U. S. Fish Commission.
473-4. Color sketches. (Richard.) U. S. Fish Commission.

Trachinotus ovatus, (Linn.) Gthr.—SHORT POMPANO.—Pelagic.

16707. New York. E. G. Blackford.
400. Color sketch. (Young.) (Richard.) Vineyard Haven, Mass. U. S. Fish Commission.
547. Color sketch. (Richard.) U. S. Fish Commission.

Halatractus zonatus, (Mitch.) Gill.—BANDED RUDDER-FISH.—
Cape Cod to Florida.

16472. Cast. Wood's Holl, Mass. U. S. Fish Commission. Sept. 14, 1875.
 16532. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 108-9. Photographs. U. S. Fish Commission.
 477. Color sketch. U. S. Fish Commission.
 478. Color sketch. U. S. Fish Commission.
 479. Color sketch. U. S. Fish Commission.

Seriola Lalandii, C. & V.?—AMBER-FISH.—Atlantic Ocean; Japan.

16709. Cast. Florida. E. G. Blackford.
 110. Photograph. U. S. Fish Commission.

Oligoplites occidentalis, (Linn.) Gill.—LEATHER JACKET.—
West Indies; occasional on coast.

16354. Cast. New York market. E. G. Blackford. Aug. 13, 1875.
 111. Photograph. U. S. Fish Commission.
 429. Color sketch. (Richard.) U. S. Fish Commission.

CORYPHÆNIDÆ.**Coryphæna Sueuri**, Cuv. & Val.—DOLPHIN.—Pelagic; occa-
sional on coast.

16441. Cast. New York market. E. G. Blackford.
 —. Color sketch. (Richard.) U. S. Fish Commission.
 16420. Cast. New York. E. G. Blackford.
 16482. Cast. New York. E. G. Blackford.

Coryphæna punctulata, (Cuv. & Val.) Gthr.—SMALL-SPOTTED
DOLPHIN.—Pelagic; occasional on coast.

16406. Cast. Noank, Conn. J. H. Latham. Aug. 25, 1875.
 112, 113, and 114. Photographs. U. S. Fish Commission.

STROMATEIDÆ.**Palinurichthys perciformis**, (Mitch.) Gill.—BLACK RUDDER-
FISH.—Newfoundland to Cape Hatteras.

16616. Cast. Martha's Vineyard. U. S. Fish Commission. Sept. 25, 1875.
 15935. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 544. Color sketch. (Richard.) U. S. Fish Commission.

Poronotus triacanthus, (Peck.) Gill.—HARVEST-FISH; BUTTER-
FISH.—Maine to Cape Hatteras.

16591. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 115. Photograph. U. S. Fish Commission.
 359-60-61. Color sketches. (Richard.) U. S. Fish Commission.
 516-17. Color sketches.

Peprilus Gardenii, (Bl., Schn.) Gill.—SHORT HARVEST-FISH.—
West Indian Fauna and north to New York.

16819. Cast. Chesapeake Bay. Sibley.

15234. New York market. John Sutherland.

LATILIDÆ.**Caulolatilus microps**, Goode & Bean.—Gulf of Mexico.

20971. Alcoholic. Pensacola, Fla. Silas Stearns.

BERYCIDÆ.**Holocentrum sogo**, Bloch.—SQUIRREL.—West Indian Fauna,
accidental on coast; found at Newport, R. I.578. Color sketch. (Burkhardt.) Bermudas. Prof. Alex. Agassiz. Alive
in Barnum's Aquarium. Dec., 1862.595. Color sketch. (Burkhardt.) New Providence. Prof. Alex. Agassiz; F
S. Shaw. April, 1861.

21232. Alcoholic. Bermudas. J. M. Jones.

SCIAENIDÆ.**Cynoscion regalis**, (Bl.) Gill.—SQUETEAGUE; WEAK-FISH.—Cape
Ann to Florida.

16216. Cast. Wood's Holl, Mass. U. S. Fish Commission. July 27, 1875.

12216. Cast. Wood's Holl, Mass. U. S. Fish Commission. July 27, 1875.

116, 117, 118, 119. Photographs. U. S. Fish Commission.

469-70. Color sketches. (Richard.) U. S. Fish Commission.

Cynoscion carolinensis, (Cuv. & Val.) Gill.—SPOTTED SQUE-
TEAGUE.—Gulf of Mexico and Southern Atlantic States.

15928. Cast.

15929. Cast.

120, 121, 122. Photographs. U. S. Fish Commission.

790. Color sketch. (Richard.) U. S. Fish Commission.

Cynoscion nothus, Holbrook.—SILVER SQUETEAGUE.—Southern
Coast.

21480. Alcoholic. Pensacola, Fla. Silas Stearns.

Pogonias chromis, Lacep.—DRUM.—Cape Cod to Florida; Gulf
of Mexico.

15699. Cast. Wood's Holl, Mass. U. S. Fish Commission.

15686. Cast. Fisher's Island Sound. Charles Potter. July 10, 1874.

123, 124, 125. Photographs. U. S. Fish Commission.

791. Color sketch. (Richard.) U. S. Fish Commission.

21282. Alcoholic. St. John's River, Fla. G. Brown Goode.

Haploidonotus grunniens, Raf.—FRESH-WATER DRUM.—Great Lakes and Mississippi Valley.

15701. Cast. Sandusky, Ohio. J. W. Milner. 1873.

126-127. Photographs. U. S. Fish Commission.

Liostomus obliquus, (Mitch.) De Kay.—SPOT.—Cape Cod to Florida.

15816. Cast. Norfolk, Va. U. S. Fish Commission.

15817. Cast. June 10, 1873.

141. Photograph. U. S. Fish Commission.

567. Color sketch. New York. Prof. Alex. Agassiz. Oct. 26, 1847.

Liostomus xanthurus, Lacep.—YELLOW-TAILED SPOT.—Southern Atlantic States.

142. Photograph. U. S. Fish Commission.

Bairdiella punctata, (Linn.) Gill.—SILVER-FISH; YELLOW TAIL.—Cape Cod to Florida.

143. Photograph. U. S. Fish Commission.

19060. Alcoholic. St. John's River, Florida. G. Brown Goode.

Sciaenops ocellatus, (Linn.) Gill.—RED BASS; SPOTTED BASS.—Cape Cod to Florida; Gulf of Mexico.

15463. Cast. Washington market. J. W. Milner.

15739. Cast. New York. E. G. Blackford.

128, 129, 130. Photographs. U. S. Fish Commission.

— Oil painting. (J. H. Richard.)

Menticirrus alburnus, (Linn.) Gill.—SOUTHERN KING-FISH.—Cape Hatteras to Florida.

137. Photograph. U. S. Fish Commission.

19081. Alcoholic. St. John's River, Fla. G. Brown Goode.

Menticirrus nebulosus, (Mitch.) Gill.—KING-FISH.—Cape Cod to Florida.

16219. Cast. Wood's Holl, Mass. U. S. Fish Commission. July 27, 1875.

15579. Cast. New York market. E. G. Blackford. October 14, 1875.

15579. Cast. New York market. E. G. Blackford. October 14, 1875.

131, 132, 133, 134, 135, and 136. Photographs. U. S. Fish Commission.

508-9-10-11-12. Color sketches. (Richard.) U. S. Fish Commission.

Micropogon undulatus, (Linn.) Cuv. & Val.—CROAKER.—Atlantic Coasts of America south of Cape Cod.

15845. Cast. Norfolk, Va. U. S. Fish Commission. June 19, 1873.

15810. Cast. Norfolk, Va. U. S. Fish Commission. July 18, 1873.

138, 139, 140. Photographs. U. S. Fish Commission.

19056. Alcoholic. St. John's River, Fla. G. Brown Goode.

GERRIDÆ.

Eucinostomus argenteus, B. & G.—Cape Cod and southward.

16960. Alcoholic. Wood's Holl, Mass. U. S. Fish Commission.

Eucinostomus Lefroyi, Goode.—BERMUDA SHAD.—West Indian Fauna.

21358. Alcoholic. Bermudas. G. Brown Goode.

PIMELEPTERIDÆ.

Pimelepterus Boscii, Lacep.—BREAM.—West Indian Fauna and north to Cape Cod.

20844. Alcoholic. Newport, R. I. S. Powell.

20635. Alcoholic. Wood's Holl, Mass. U. S. Fish Commission.

21368. Alcoholic. Bermudas. G. Brown Goode.

SPARIDÆ.

Lagodon rhomboides, (Linn.) Holbrook.—SAILOR'S CHOICE.—West Indian Fauna and north to Cape Cod.

21280. Alcoholic. St. John's River, Fla. G. Brown Goode.

Archosargus probatocephalus, (Walb.) Gill.—SHEEPSHEAD.—Cape Cod to Florida; Gulf of Mexico.

10685. Cast. Washington market. J. W. Milner.

15825. Cast. New York market. E. G. Blackford. October 20, 1875.

15826. Cast. New York market. E. G. Blackford. October 14, 1875.

14880. Cast. Norfolk, Va. U. S. Fish Commission. July 11, 1872.

15818. Cast. New York. E. G. Blackford.

144, 145. Photographs. U. S. Fish Commission.

548. Color sketch. (Richard.) U. S. Fish Commission.

Stenotomus argyrops, (Linn.) Gill.—SCUPPAUG; SCUP; PORGY.—Cape Ann to Florida.

16035. Cast. Buzzard's Bay. U. S. Fish Commission. July 10, 1875.

10668. Cast. Wood's Holl, Mass. V. N. Edwards.

16209. Cast.

10601. Cast. Wood's Holl, Mass. V. N. Edwards.

146-47. Photographs. U. S. Fish Commission.

439. Color sketch. (Young.) (Richard.) U. S. Fish Commission.

Sargus Holbrookii, Bean.—CHARLESTON BREAM.—Carolinas.

20979. Cast. Charleston, S. C. G. Brown Goode.

Sparus aculeatus, (Cuv. & Val.) Gill.?—BASTARD SNAPPER.—Southern Coast.

20981. Cast. Charleston, S. C. G. Brown Goode.

PRISTIPOMATIDÆ.

Hæmylum arcuatum, Cuv. & Val.—BLUE-CHECKED RED-MOUTH.
—South Atlantic Coast of United States.

14907. Cast. Florida. E. G. Blackford.

Hæmylum formosum, (Linn.) Cuv.—SQUIRREL RED-MOUTH.—
South Atlantic Coast of United States.

15846. Cast. Florida. E. G. Blackford.

Hæmylum, sp.—South Atlantic Coast of United States.

15840. Cast. Florida. E. G. Blackford.

Hæmylum chrysopterum, (Linn.) Cuv.?—YELLOW-FINNED
GRUNT.—South Atlantic Coast of United States.

15918. Cast. Florida. E. G. Blackford.

Hæmylum elegans, Cuv. & Val.—BLUE-STRIPED RED-MOUTH.—
South Atlantic Coast of United States.

15815. Cast. Florida. E. G. Blackford.

573. Color sketch. (Dall.) Florida. Prof. Alex. Agassiz. Alive in Boston
Aquarial Garden. June, 1860.

574. Color sketch. (Burkhardt.) Bermudas. Prof. Alex. Agassiz. Alive in
Barnum's Aquarium. Nov. 1862.

Hæmylum arara, Poey?—ARARA RED-MOUTH.—West Indian
Fauna.

552. Water-color sketch. (Burkhardt.) Florida. Prof. Alex. Agassiz. Alive
in Boston Aquarial Garden. June, 1860.

Orthopristis fulvomaculatus, (Mitch.) Gill.—SPECKLED
GRUNT.—South Atlantic Coast of United States.

15812. Cast. Norfolk, Va. U. S. Fish Commission.

15814. Cast. Norfolk, Va. U. S. Fish Commission.

15908. Cast.

Anisotremus virginicus, (Linn.) Gill.—South Atlantic Coast of
United States.

15903. Cast. Florida. E. G. Blackford. April 16, 1874.

148. Photograph. U. S. Fish Commission.

551. Color sketch. (Burkhardt.) New Providence. Prof. Alex. Agassiz; F.
S. Shaw. April, 1861.

Lutjanus Blackfordii, Goode & Bean.—RED SNAPPER.—West
Indian Fauna and north to Savannah Bank.

15700. Cast. New York market. E. G. Blackford. May 7, 1874.

12515. Cast. Washington market. J. W. Milner.

149. Photograph. U. S. Fish Commission.

Lutjanus, sp.—SNAPPER.—West Indian Fauna and Southern Atlantic States.

15917. Cast. Florida. E. G. Blackford.

Lutjanus, sp.—South Atlantic Coast of United States.

16641. Cast. Key West, Fla. E. G. Blackford.

Lutjanus caxis, (Bl., Schn.) Gill.—GRAY SNAPPER.—West Indian Fauna and Southern Atlantic States.

18101. Alcoholic. Bermudas. G. Brown Goode.

Lutjanus Stearnsii, Goode & Bean.—GULF SNAPPER.—Gulf of Mexico.

21330. Cast. Pensacola, Fla. Silas Stearns.

Rhomboplites, aurorubens, (Cuv. & Val.) Gill.—MANGROVE SNAPPER.—West Indian Fauna.

21224. Alcoholic. Charleston, S. C. C. C. Leslie.

21338. Alcoholic. Pensacola, Fla. Silas Stearns.

Ocyurus chrysurus, (Bl.) Gill.—GOLDEN TAIL.—West Indian Fauna.

14905. Cast. New York market. Florida. E. G. Blackford. April 16, 1874.

150. Photograph. U. S. Fish Commission.

555. Color sketch. (Burkhardt.) New Providence. Prof. Alex. Agassiz; F. S. Shaw. April, 1861.

CENTRARCHIDÆ.

Eupomotis aureus, (Walb.) Gill & Jordan.—SUN-FISH.—Fresh waters of Eastern North America.

14941. Cast. Washington market. G. Brown Goode. February, 1875.

151, 152. Photograph. U. S. Fish Commission.

505. Color sketch. (Richard.) U. S. Fish Commission.

Lepiopomus pallidus, (Mitch.) Gill & Jordan.—BLUE-NOSE BREAM.—Great Lakes and Southeastern United States.

18368. Alcoholic. St. John's River, Fla. G. Brown Goode.

Pomoxys nigromaculatus, (Les.) Girard.—GRASS BASS.—Great Lakes, Mississippi Valley, and Southern Atlantic States.

10382. Cast. Norfolk, Va. Dr. H. C. Yarrow.

153, 154. Photograph. U. S. Fish Commission.

Ambloplites rupestris, (Raf.) Gill.—ROCK BASS.—Great Lakes and Mississippi Valley.

15958. Cast. U. S. Fish Commission.

151. Photograph. U. S. Fish Commission.

Micropterus pallidus, (Raf.) Gill & Jordan.—LARGE-MOUTH BLACK BASS.—Great Lakes, Mississippi River and tributaries; Southern States; introduced northward.

10380. Cast. Norfolk, Va. Dr. H. C. Yarrow.
 10668. Cast. Norfolk, Va. U. S. Fish Commission. Nov. 5, 1873.
 10381. Cast. Norfolk, Va. Dr. H. C. Yarrow.
 15880. Cast. Carrollton, Ky. J. W. Milner.
 10380. Cast. Norfolk, Va. Dr. H. C. Yarrow.
 155, 156. Photographs. U. S. Fish Commission.

Micropterus salmoides, (Lac.) Gill.—SMALL-MOUTHED BLACK BASS.—Great Lakes and Mississippi Valley; introduced eastward.

15297. Cast. Potomac River. Maj. Hobbs.

PERCIDÆ.

Perca fluviatilis, L.—YELLOW PERCH.—Fresh waters of Eastern United States and Western Europe.

14976. Cast. Washington market. G. Brown Goode. Feb. 27, 1875.
 167, 168, 169. Photographs. U. S. Fish Commission.
 792. Color sketch. (Richard.) U. S. Fish Commission.

Stizostedium vitreum, (Mitch.) Jordan & Copeland, (Val.) Cope.—YELLOW PIKE-PERCH.—Fresh waters of Central United States.

15658. Cast. New York market. E. G. Blackford.
 14862. Cast. Sandusky, Ohio. J. W. Milner. Oct., 1873.
 611. Color sketch. (Roetter.) Sackett's Harbor, N. Y. Prof. Alex. Agassiz. Nov., 1868.
 15658. Cast. New York market. E. G. Blackford. Nov. 5, 1875.
 170, 171, 172, 173, 174. Photographs. U. S. Fish Commission.
 793. Color sketch. (Richard.) U. S. Fish Commission.

Stizostedium canadense, (Smith) Jordan.—CANADA PIKE-PERCH.—St. Lawrence River to the Upper Missouri.

178. Photograph. U. S. Fish Commission.
 15752. Cast. Ohio River. J. W. Milner.
 15837. Cast.
 175, 176, 177. Photographs. U. S. Fish Commission.

SERRANIDÆ.

Epinephelus morio, (Cuv.) Gill.—RED-BELLIED SNAPPER.—West Indian Fauna and Southern Atlantic States.

12516. Cast. Washington market. J. W. Milner.
 165. Photograph. U. S. Fish Commission.

Epinephelus, sp.—SNAPPER.—West Indian Fauna and Southern Atlantic States.

14923. Cast. Florida. E. G. Blackford.

Epinephelus Drummond-Hayi, Goode & Bean.—STAR SNAPPER; HIND; JOHN PAW.—West Indian Fauna.

16795. Cast. South Florida. E. G. Blackford.
 21255. Alcoholic. Pensacola, Fla. Silas Stearns.
 —. Color sketch. Bermuda. Col. H. Drummond-Hay.

Epinephelus nigritus, Holbrook.—BLACK GROUPEL.—Coast of Florida.

21239. Cast. Pensacola, Fla. Silas Stearns.

Epinephelus striatus, (Bloch.) Gill.—HAMLET; GROUPEL.—West Indian Fauna.

18088. Alcoholic. Bermudas. G. Brown Goode.
 582. Color sketch. (Burkhardt.) Bermudas. Prof. Alex. Agassiz. Alive in Barnum's Aquarium. Nov., 1862.

Epinephelus guttatus, (Gmel.) Goode.—BERMUDA HIND.—West Indian Fauna.

18118. Alcoholic. Bermudas. G. Brown Goode.
 587. Color sketch. (Burkhardt.) Bermudas. Prof. Alex. Agassiz. Alive in Barnum's Aquarium. Nov., 1862.

Trisotropis undulosus, (Cuv.) Gill.?—ROCK GROUPEL.—Cape Hatteras to Florida; West Indian Fauna.

15462. Cast. New York market. E. G. Blackford. June 14, 1875.
 15881. Cast. New York market. E. G. Blackford. June 14, 1875.
 794. Color sketch. (Richard.) U. S. Fish Commission.

Promicrops guasa, (Poey) Gill.—JEW-FISH; GUASA.—West Indian Fauna.

15305. Cast. Key West. E. G. Blackford.
 444. Color sketch. (Richard.) U. S. Fish Commission.

Centropristis atrarius, (Linn.) Barn.—SEA BASS.—Cape Cod to Florida.

10642. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 10597. Cast. Wood's Holl, Mass. U. S. Fish Commission. May 12, 1874.
 15684. Cast. (Male.) Noank, Conn. U. S. Fish Commission. August, 1874.
 15685. Cast. Wood's Holl, Mass. U. S. Fish Commission. September 2, 1875.
 10667. Cast. (Female.) Wood's Holl, Mass. U. S. Fish Commission.
 15963. Cast. Hog-fish Rocks, Va. U. S. Fish Commission. July 5, 1873.
 157, 158, 159, 160, 161, 162, 163, 164, 381. Photographs. U. S. Fish Commission.
 463-4 and 5. Color sketches. (Richard.) U. S. Fish Commission.

Diplectrum fasciculare, (Cuv. & Val.) Holb.—SQUIRREL.—Cape Hatteras to Florida; West Indian Fauna.

15844. Cast. New York. E. G. Blackford.
 166. Photograph. U. S. Fish Commission.

LABRACIDÆ.

Roccus lineatus, (Schn.) Gill.—STRIPED BASS; ROCK-FISH.—St. Lawrence to Florida.

10664. Cast. (Female.) Potomac River. Dr. H. C. Yarrow.
 15737. Cast. Wood's Holl, Mass. U. S. Fish Commission. May 27, 1873.
 15725. Cast. Washington market. G. Brown Goode.
 15706. Cast. New York. E. G. Blackford. Nov. 28, 1874.
 185-186, 187. Photographs. U. S. Fish Commission.
 782-3. Color sketch. (Richard.) U. S. Fish Commission.

Roccus chrysops, (Raf.) Gill.—WHITE BASS.—Great Lakes and Mississippi Valley.

15807. Cast. New York market. E. G. Blackford. Oct. 7, 1875.
 188. Photographs. U. S. Fish Commission.
 503. Color sketch. (Richard.) U. S. Fish Commission.

Morone americana, (Gmel.) Gill.—WHITE PERCH.—Nova Scotia to Florida.

10748. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 10729. Cast. (Female.) Wood's Holl, Mass. U. S. Fish Commission.
 10730. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 16618. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 179, 180, 181, 182, 183, 184. Photographs. U. S. Fish Commission.
 766. Color sketch. (Richard.) U. S. Fish Commission.

EPHIPPIIDÆ.

Parephippus quadratus, (Gun.) Gill.—MOON-FISH.—Cape Cod to Florida; West Indian Fauna.

14886. Cast. Norfolk, Va. U. S. Fish Commission. July, 1873.
 14887. Cast. Norfolk, Va. U. S. Fish Commission. July, 1873.
 15820. Cast. Norfolk, Va. U. S. Fish Commission.
 196, 197. Photographs. U. S. Fish Commission.

LOBOTIDÆ.

Lobotes surinamensis, Cuv.—TRIPLE-TAIL FLASHER.—Cape Cod to Florida; West and East Indies.

15702. Cast. Wood's Holl, Mass. U. S. Fish Commission. August 28, 1873.
 16202. Cast. New York market. E. G. Blackford. July 20, 1875.
 201, 202. Photographs. U. S. Fish Commission.

POMATOMIDÆ.

Pomatomus saltatrix, (Linn.) Gill.—BLUE-FISH.—Pelagic.

15871. Cast. Wood's Holl, Mass. V. N. Edwards. June 11, 1873.
 13166. Cast. Norfolk, Va. G. Brown Goode.
 15753. Cast.
 189, 190, 191, 192, 193, 194, 195, 386. Photographs. U. S. Fish Commission.
 528-2-30. Color sketches. (Richard.) U. S. Fish Commission.

ELACATIDÆ.

Elacate canadus, (Linn.) Gill.—COBIA; CRAB-EATER.—Cape Cod to West Indies.

16250. Cast. New York market. E. G. Blackford. July 30, 1875.
 14922. Cast. Point Lookout, Va. J. H. Skidmore. July 9, 1874.
 198, 199, 200. Photographs. U. S. Fish Commission.

PRIACANTHIDÆ.

Pseudopriacanthus altus, (Gill) Bleeker.—SHORT BIG-EYE.—Cape Cod to Cape Hatteras.

203. Photograph. U. S. Fish Commission.
 441. Color sketch. (Richard.) U. S. Fish Commission.
 15583. Alcoholic. Wood's Holl, Mass. U. S. Fish Commission. Sept., 1875.
 16954. Alcoholic. Wood's Holl, Mass. U. S. Fish Commission. 1876.

ECHENEIDIDÆ.

Leptecheneis naucrateoides, (Zuiew.) Gill.—REMORA; SUCKER-FISH.—Coast generally.

16071. Cast. Wood's Holl, Mass. U. S. Fish Commission. July 10, 1875.
 16617. Cast. Wood's Holl, Mass. U. S. Fish Commission. Sept. 18, 1875.
 16344. Cast. Wood's Holl, Mass. U. S. Fish Commission. Aug. 10, 1875.
 206, 207, 208. Photographs. U. S. Fish Commission.
 541-2-3. Color sketch. (Richard.) U. S. Fish Commission.

Remoropsis brachyptera, (Lowe) Gill.—SWORD-FISH SUCKER.—Parasite of the Sword-fish (*Xiphias gladius*).

21693. Alcoholic. Sable Id Bank. Capt. G. A. Johnson.

Rhombochirus osteochir, (Cuv.) Gill.—SPEAR-FISH SUCKER.—Parasites of the Bill-fish (*Tetrapturus albidus*).

15842. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 209, 210, 211. Photographs. U. S. Fish Commission.
 764-5. Color sketches. (Richard.) U. S. Fish Commission.

SPHYRÆNIDÆ.

Sphyræna borealis, De Kay.—NORTHERN BARRACUDA.—Cape Cod to Florida.

14978. Cast. Florida. E. G. Blackford.
 204, 205. Photographs. U. S. Fish Commission.
 407. Color sketch. (Richard.) U. S. Fish Commission. Probably identical with *Sphyræna spet* (Hauy) Goode, the common species of the Mediterranean.

Sphyræna picuda.—SOUTHERN BARRACUDA.—West Indian Fauna, &c.

21886. Alcoholic. Bermudas. G. Brown Goode.

PERCESOCES.

MUGILIDÆ.**Mugil lineatus,** Mitch.—STRIPED MULLET.—Cape Cod to Florida; Gulf of Mexico.

15723. Cast.

212, 213, 214, 215, 216. Photographs. U. S. Fish Commission.

421. Color sketch. (Richard.) U. S. Fish Commission.

Mugil albula, Linn.—WHITE MULLET.—Cape Cod to Florida (probably young of the preceding species).

420. Color sketch. (Richard.) U. S. Fish Commission.

21302. Alcoholic. Florida. G. Brown Goode.

ATHERINIDÆ.**Chirostoma notatum,** (Mitch.) Gill.—SILVER-SIDES; FRIAR.—Maine to Florida.

14930. Cast.

16612. Cast.

16620. Cast. Wood's Holl, Mass. U. S. Fish Commission.

380, 382. Photographs. U. S. Fish Commission.

518. Color sketch. (Richard.) U. S. Fish Commission.

Chirostoma californiense, (Girard) Gill.—“SMELT.”—Coast of California.

506. Color sketch. (Richard.) U. S. Fish Commission.

16693. Alcoholic. San Francisco. Livingston Stone.

16693. Cast. San Francisco. U. S. Fish Commission.

HEMIBRANCHII.

GASTEROSTEIDÆ.**Pygosteus occidentalis,** (Cuv. & Val.) Brevoort.—TEN-SPINED STICKLE-BACK.—Newfoundland to Cape Hatteras.

384. Photograph. U. S. Fish Commission.

644. Color sketch. (Burkhardt.) Prof. Alex. Agassiz.

Gasterosteus noveboracensis, Cuv. & Val.—NEW YORK STICKLE-BACK.—New Brunswick to Cape Hatteras.

644. Color sketch. (Burkhardt.) Prof. Alex. Agassiz.

Apeltes quadracus, (Mitch.) Brev.—FOUR-SPINED STICKLE-BACK.
—New Brunswick to Florida.

384. Photograph. U. S. Fish Commission.

644. Color sketch. (Burkhardt.) Prof. Alex. Agassiz.

Many other species of *Gasterosteus* are included in the series, which were not of sufficient importance to be enumerated.

AULOSTOMIDÆ.

Aulostoma maculatum, Val.—TRUMPET-FISH.—West Indian Fauna.

568. Color sketch. (Burkhardt.) Prof. Alex. Agassiz.

FISTULARIIDÆ.

Fistularia serrata, Cuv.—TOBACCO-PIPE-FISH.—Cape Cod to Florida; West Indian Fauna.

16957. Alcoholic. Wood's Holl, Mass. U. S. Fish Commission. 1876.

SYNENTOGNATHI.

BELONIDÆ.

Belone longirostris, (Mitch.) Gill.—SILVER GAR-FISH.—Cape Cod to Florida.

16555. Cast. Wood's Holl, Mass. U. S. Fish Commission. Sept. 21, 1875.

16423. Cast. Wood's Holl, Mass. U. S. Fish Commission. Sept. 6, 1875.

217. Photograph. U. S. Fish Commission.

563. Color sketch. Prof. Alex. Agassiz.

540. Color sketch. (Richard.) U. S. Fish Commission.

Belone latimanus, Poey.—SILVER GAR-FISH.—Cape Cod to Florida.

16121. Cast. Wood's Holl, Mass. U. S. Fish Commission. July 15, 1875.

795. Color sketch. (Richard.) U. S. Fish Commission.

218. Photograph. U. S. Fish Commission.

Belone hians, Cuv. & Val.—BOW-MOUTHED GAR-FISH.—West Indian Fauna.

21810. Alcoholic. New York market. G. Brown Goode.

Belone Jonesii, Goode.—HOUND-FISH.—West Indian Fauna.

21392. Alcoholic. Bermudas. G. Brown Goode.

SCOMBERESOCIDÆ.

Exocætus exiliens, Gmel.—BUTTERFLY FLYING-FISH.—West Indian Fauna and north to Cape Cod.

21410. Alcoholic. Bermudas. G. Brown Goode. Mar., 1872.

Exocætus noveboracensis, Mitch.?—BLACK-WINGED FLYING-FISH.—Cape Cod to Florida.

—Alcoholic. Block Island, R. I. U. S. Fish Commission. Aug., 1874.

Exocætus Rondeletii, Cuv. & Val.—Mediterranean and Atlantic.

21409. Alcoholic. Bermudas. G. Brown Goode.

Cypselurus furcatus, (Mitch.) Weinland.—BEARDED FLYING-FISH.—Atlantic.

21412. Alcoholic. Bermudas. G. Brown Goode.

Euleptorhamphus longirostris, (Cuv. & Val.) Gill.—Cape Cod to Florida.

15648. Alcoholic. Newport, R. I. Mr. Brown.

Scomberesox scutellatus, Les.—HALF-BEAK; SKIPPER.—Nova Scotia to Florida.

13164. Cast.

410, 539. Color sketches. (Richard.) U. S. Fish Commission.

HAPLOMI.

ESOCIDÆ.

Esox americanus, Gmelin.—BROOK PICKEREL.—Massachusetts to Maryland.

17766. Alcoholic. Keeseville, N. Y. H. N. Hewitt.

796. Color sketch. (Richard.) U. S. Fish Commission.

493. Color sketch. Prof. Alex. Agassiz.

Esox reticulatus, Lesueur.—PICKEREL.—Atlantic slope, New England to Alabama.

15012. Cast. Washington, D. C. G. Brown Goode.

222. Photograph. U. S. Fish Commission.

758. Color sketch. U. S. Fish Commission.

619. Color sketch. (Roetter.) East Wareham, Mass. Museum of Comp. Zoology. Feb., 1869.

Esox lucius, Linn.—PIKE.—Northern America, Asia, and Europe.

14876. Cast. Sandusky, Ohio. J. W. Milner. Oct. 25, 1873.

14875. Cast. Sandusky, Ohio. J. W. Milner. Nov. 3, 1873.

219. Photograph. U. S. Fish Commission.

618. Color sketch. (Roetter.) Museum of Comp. Zoology. Sackett's Harbor. Nov., 1869.

494. Color sketch. Prof. Alex. Agassiz.

Esox nobilior, Thompson.—MUSKELLUNGE (weight 37 pounds).—Great Lakes and Southern British Provinces east of Rocky Mountains.

14895. Cast. Sandusky, Ohio. J. W. Milner. Oct., 1873.

220, 221. Photographs. U. S. Fish Commission.

CYPRINODONTIDÆ.

Cyprinodon variegatus, Lac.—SHORT CYPRINODON.—Cape Cod to Florida.

13986. Alcoholic. Noank, Conn. U. S. Fish Commission.

Fundulus pisculentus, (Mitch.) Val.—MUMMICHOG.—Nova Scotia to Florida.

13970. Alcoholic. Noank, Conn. U. S. Fish Commission.

434, 797. Color sketches. (Richard.) U. S. Fish Commission.

Hydrargyra majalis, (Walb.) Val.—MAY-FISH.—Brackish waters; Cape Ann to Cape Hatteras.

223-383. Photographs. U. S. Fish Commission.

13974. Alcoholic. Noank, Conn. U. S. Fish Commission.

434. Color sketch. (Richard.) U. S. Fish Commission.

ISOSPONDYLI.**SYNODONTIDÆ.**

Synodus fœtens, (Linn.) Gill.—SNAKE-FISH.—Cape Cod to Florida.

16583. Cast. New York market. E. G. Blackford. Sept. 24, 1875.

424. Color sketch. (Richard.) U. S. Fish Commission.

MICROSTOMIDÆ.

Mallotus villosus, (Müll.) Cuv.—CAPELIN.—Polar Seas and south to Nova Scotia.

3417. Alcoholic. Gross Water Bay. Dr. E. Coues.

Osmerus pacificus, (Rich.)—OULACHAN; CANDLE-FISH.—North Pacific.

20584. Alcoholic. Washington Ter. U. S. Fish Commission.

Osmerus mordax, (Mitch.) Gill.—SMELT; FROST-FISH.—Nova Scotia to Cape Hatteras.

385. Photograph. U. S. Fish Commission.

507. Color sketch. (Richard.) U. S. Fish Commission.

13863. Alcoholic. Eastport, Me. U. S. Fish Commission.

Argentina syrtensium, Goode & Bean.—WESTERN ARGENTINE.—Deep-sea Fauna of Western Atlantic.

21624. Alcoholic. Sable Island Bank. Capt. J. W. Collins.

COREGONIDÆ.**Coregonus clupeiformis**, (Mitch.) Milner. — WHITE-FISH.—
Great Lakes and British America.

16741. Cast. Michigan.
 14973. Cast. Ecorse, Mich. George Clark.
 15741. Cast. Ecorse, Mich. George Clark.
 14854. Cooperstown, N. Y. Elihu Phinney.
 224, 225, 226, 227, 228, 229, 230. Photographs. U. S. Fish Commission.

Coregonus labradoricus, Rich.—LAKE WHITING.—Northern
Lakes.

232. Photograph. U. S. Fish Commission.
 16868. Alcoholic. Lake Winnepiseogee, Me. U. S. Fish Commission.

Prosopium quadrilaterale, (Rich.) Milner.—“SHAD-WAITER.”
—Great Lakes and northward.

233. Photograph. U. S. Fish Commission.
 12360. Alcoholic. Grand Lake, Me. U. S. Fish Commission.

Prosopium Couesii, Milner.—CHIEF MOUNTAIN LAKE WHITE-
FISH.—Upper Missouri Region.

14146. Alcoholic. Chief Mountain Lake. Dr. Elliott Coues, U. S. A.

Argyrosomus Artedi, (Les.) Hoy.—HERRING WHITE-FISH.—
Great Lakes, etc.

235. Photograph. U. S. Fish Commission.
 752. Color sketch. (Richard.) U. S. Fish Commission.
 11195. Alcoholic. Au Sable, Michigan. U. S. Fish Commission.

SALMONIDÆ.**Salmo salar**, Linn.—SALMON.—Northern America and Europe.

14898. Cast. Bucksport, Me. Joseph Palmer. July 1, 1873.
 16744. Cast. Bucksport, Me. C. G. Atkins. Nov., 1873.
 16743. Cast. Bucksport, Me. C. G. Atkins. Nov., 1873.
 10314. Cast. Bucksport, Me. C. G. Atkins. July 1, 1873.
 239, 240, 241, 242. Photographs. U. S. Fish Commission.
 415. Water-color sketch. U. S. Fish Commission.

Salmo salar, *var. sebago*, Girard.—SEBAGO SALMON (land-locked.)
—St. Croix River and Sebago Lake. Introduced into other
lakes.

15467. Cast. Sysladobsis Lake, Me. “Dobsis Club,” through Judge Harvey
 Jewell. June, 1875.
 15977. Cast.
 15978. Cast.
 535-6. Color sketches. (Richard.) U. S. Fish Commission.

Salmo fario, Linn.—RIVER TROUT.—Rivers of Europe.

252. Photograph. U. S. Fish Commission.

Oncorhynchus quinnat, (Rich.) Günther.—QUINNAT or SACRAMENTO SALMON.—Northwest Coast of America; south to California.

10340. Cast. New York market. E. G. Blackford.

10347. Cast. Sacramento River, Cal. L. Stone. March, 1873.

248, 249, 250, 251. Photographs. U. S. Fish Commission.

416. Color sketch. (Richard.) U. S. Fish Commission.

Cristivomer namaycush, (Penn.) Gill & Jordan.—NAMAYCUSH TROUT; LAKE TROUT.—Northern Lakes.

246, 247. Photographs. U. S. Fish Commission.

10312. Cast. Moosehead Lake, Me. E. M. Stillwell.

16670-71. Casts. Lake Winnepiseogee. U. S. Fish Commission.

463, 526-7. Color sketches. (Richard.) U. S. Fish Commission.

Salvelinus fontinalis, (Mitch.) Gill & Jordan.—BROOK TROUT.—Rivers and Lakes of British North America and of the northern parts of the United States and Appalachian Range.

16626. Cast. Wood's Holl, Mass. V. N. Edwards.

15961. Cast. Sysladobsis Lake, Me. "Dobsis Club," through Judge Harvey Jewell. June, 1875.

15728. Cast. New York market. E. G. Blackford. March 22, 1875.

10311. Cast. New York market. E. G. Blackford. March 22, 1875.

15470. Cast. Sysladobsis Lake, Me. "Dobsis Club," through Judge Harvey Jewell. June, 1875.

243, 244. Photographs. U. S. Fish Commission.

751. Color sketch. (Richard.) U. S. Fish Commission.

26792. Mounted. (Male.) Rangely Lake, Me. Geo. Shepard Page. Weight 10 pounds. The largest Brook Trout on record. Taken by Geo. Shepard Page in 1867. Transported alive in a box of water (which also contained a female trout weighing $8\frac{1}{4}$ pounds) to Stanley, Morris Co., New Jersey.**Salvelinus oquassa**, (Girard) Gill & Jordan.—OQUASSA TROUT.—Rangely Lake, Me., and vicinity.

245. Photograph. U. S. Fish Commission.

549. Color sketch. (Richard.) U. S. Fish Commission.

750. Color sketch. (Richard.) U. S. Fish Commission.

Thymallus tricolor, Cope.—MICHIGAN GRAYLING.—Northern portion southern peninsula of Michigan.

15226. Cast. Au Sable River, Mich. Fred. Mather. April 7, 1875.

236, 238. Photographs. U. S. Fish Commission.

ALBULIDÆ.

Albula vulpes, (Linn.) Goode.—LADY-FISH.—Pelagic; Tropical and Subtropical Seas.

255. Photograph. U. S. Fish Commission.
21859. Alcoholic. Wood's Holl, Mass. U. S. Fish Commission.

HYODONTIDÆ.

Hyodon tergisus, Les.—MOON-EYE.—Great Lakes and Mississippi Valley.

15561. Cast. New York market. E. G. Blackford. Nov. 15, 1875.
14863. Cast. Cincinnati, Ohio. J. W. Milner. Nov., 1873.
253, 254. Photographs. U. S. Fish Commission.
753. Color sketch. (Richard.) U. S. Fish Commission.

ELOPIDÆ.

Elops saurus, Linn.—BIG-EYED HERRING.—Tropical and Subtropical Seas.

15824. Cast. New York market. E. G. Blackford. Oct. 11, 1875.
15821. Cast. New York market. E. G. Blackford. Oct. 11, 1875.
15823. Cast. New York market. E. G. Blackford. Oct. 11, 1875.
15822. Cast. New York market. E. G. Blackford. Oct. 14, 1875.
15744. Cast. New York market. E. G. Blackford. Oct. 14, 1875.
15824. Cast. New York market. E. G. Blackford. Oct. 11, 1875.
256. Photograph. U. S. Fish Commission.
772. Color sketch. (Richard.) U. S. Fish Commission.

Megalops thrissoides, (Schn.) Günther.—TARPUM.—Cape Cod to Florida.

14924. Cast. New Jersey. E. G. Blackford. July 9, 1874.
398. Photograph. Newport, R. I. S. Powell. Aug., 1874.

DUSSUMERIDÆ.

Etrumeus teres, (DeKay) Brevoort.—ROUND HERRING.—Cape Cod to Cape Hatteras.

20216. Alcoholic. Newport, R. I. S. Powel.

CLUPEIDÆ.

Brevoortia tyrannus, (Latr.) Goode.—MENHADEN; MOSS-BUNKER; POGIE.—Newfoundland to Gulf of Mexico.

10696. Cast. Wood's Holl, Mass. U. S. Fish Commission.
16313. Cast. Wood's Holl, Mass. U. S. Fish Commission. Aug., 1875.
257, 258, 259, 260, 386, 387. Photographs. U. S. Fish Commission.
564. Color sketch. Prof. Alex. Agassiz.

Brevoortia patronus, Goode.—GULF MENHADEN.—Gulf of Mexico.

892. Alcoholic. Brazos Santiago, Texas.

Alosa sapidissima, (Wilson) Storer.—SHAD.—Newfoundland to Florida.

10641. Cast. Potomac River. J. W. Milner. 1873.

10625. Cast. Potomac River, D. C. J. W. Milner.

14878. Cast. Connecticut River. E. G. Blackford. May 7, 1874.

261, 262, 263, 264, 265. Photographs. U. S. Fish Commission.

Opisthonema thrissa, Gill.—THREAD HERRING.—West Indian Fauna and north to Cape Cod.

20218. Alcoholic. Newport, R. I. U. S. Fish Commission.

Pomolobus pseudoharengus, (Wilson) Gill.—ALEWIFE; FRESH-WATER HERRING; GASPÉREAU.—Newfoundland to Florida.

10622. Cast. (Female.) Wood's Holl, Mass. U. S. Fish Commission.

266, 267, 268, 269, 386. Photographs. U. S. Fish Commission.

457. Color sketch. (Richard.) U. S. Fish Commission.

Pomolobus mediocris, (Mitch.) Gill.—MATTAWOCCA; TAILOR HERRING; SEA SHAD.—Newfoundland to Florida.

10657. Cast. Potomac River. J. W. Milner. 1873.

269, 270, 271. Photographs. U. S. Fish Commission.

458, 771. Color sketches. (Richard.) U. S. Fish Commission.

Clupea harengus, Linn.—HERRING; SEA HERRING.—North Atlantic.

399. Photograph. U. S. Fish Commission.

13855. Alcoholic. Eastport, Me. U. S. Fish Commission.

Clupea mirabilis, Girard.—HERRING.—Coast of California.

605. Color sketch. Galians Id., Gulf of Georgia, W. T. Prof. Alex. Agassiz. June, 1859.

DOROSOMIDÆ.**Dorysoma Cepedianum**, (Lac.) Gill.—MUD SHAD; WINTER SHAD.—Cape Cod to St. John's River, Fla.

14991. Cast. Potomac River. G. Brown Goode. March 1, 1875.

15695. Cast. Washington market. G. Brown Goode. Dec., 1874.

272, 273. Photographs. U. S. Fish Commission.

798. Color sketch. (Richard.) U. S. Fish Commission.

Dorysoma Cepedianum, *var. heterurum*, (Raf.) Jordan.—OHIO GIZZARD SHAD.—Ohio River and Lower Mississippi.

20836. Alcoholic. Sarnia, Lake Huron. S. Wilmot.

ENGRAULIDIDÆ.

Engraulis vittata, (Mitch.) B. & G.—ANCHOVY.—Cape Cod to Cape Hatteras.

382. Photograph. U. S. Fish Commission.
14086. Alcoholic. Watch Hill, R. I., &c. U. S. Fish Commission.

EVENTOGNATHI.**CATOSTOMIDÆ.**

Catostomus teres, (Mitchill) Les.—COMMON SUCKER.—Eastern Northern America.

279. Photograph. U. S. Fish Commission.
18258. Alcoholic. Potomac River. U. S. Fish Commission.

Myxostoma macrolepidotum, (Les.) Jordan.—STRIPED SUCKER.—Mississippi Valley and Great Lakes.

15930. Cast. Washington market. J. W. Milner.
16786. Cast. Washington market. J. W. Milner.
16785. Cast. Washington market. J. W. Milner.
278. Photograph. U. S. Fish Commission.

Cycleptus elongatus, (Les.) Ag.—BLACK SUCKER.—Mississippi Valley.

16781. Cast. Ohio River. J. W. Milner. Nov. 5, 1875.
280. Photograph. U. S. Fish Commission.

Erimyzon sucetta, (Lac.) Jordan.—CHUB SUCKER.—Eastern United States.

281. Photograph. U. S. Fish Commission.

Erimyzon Goodei, Jordan.—GOODE'S SUCKER.—Florida.

19071. Alcoholic. St. John's River, Fla. G. Brown Goode.

Bubalichthys bubalus, Ag.—BUFFALO-FISH.—Mississippi Valley.

14883. Cast. Cincinnati, Ohio. J. W. Milner. Nov. 5, 1873.

Carpionodes cyprinus, (Les.) Ag.—CARP.—Eastern United States.

10735. Cast. Potomac River, D. C. J. W. Milner.
16780. Cast. Sandusky, Ohio. J. W. Milner. Nov. 3, 1875.

CYPRINIDÆ.

Ptychocheilus grandis, (Ayres) Girard.—“PIKE.”—Pacific Slope.

282. Photograph. U. S. Fish Commission.

Notemigonus americanus, (Linn.) Jordan.—SHINER.—Southern Rivers.

19063. Alcoholic. St. John's River, Fla. G. Brown Goode.

Notemigonus chrysoleucus, (Mitch.) Jordan.—SHINER.—Eastern Atlantic States.

435. Color sketch. (Richard.) U. S. Fish Commission.

Leuciscus pulchellus, Storer.

630. Color sketch. (Burkhardt.) New Bedford, Mass. Prof. Alex. Agassiz. 1861.

Carassius auratus, (Linn.) Bleeker.—GOLD-FISH.—Domesticated; native of China and Japan.

16667. Cast. Washington, D. C. J. H. Richard.

18290. Alcoholic. Ponds of Maryland. U. S. Fish Commission.

ORDER NEMATOGNATHI.

SILURIDÆ.

Elurichthys marinus, (Mitch.) B. & G.—FORK-TAILED CAT-FISH.—Cape Cod to Florida; Gulf of Mexico.

15575. Cast. New Bedford, Mass. U. S. Fish Commission. Oct. 11, 1875.

283, 284, 285. Photographs. U. S. Fish Commission.

522. Color sketch. (Richard.) U. S. Fish Commission.

Amiurus catus, (Linn.) Gill.—HORN POUT.—Eastern North America.

466. Color sketch. Prof. Alex. Agassiz. Natural size drawing by P. Roetter from a fresh specimen, East Wareham, Mass., Feb., 1869; weight, 1½ lbs. "S. T. Tisdale says he has seen the young of this species following the mother like a brood of chickens."—*Ms. note.*

Ichthælorus furcatus, (C. & V.) Gill.—CHANNEL CAT-FISH.—Mississippi Valley.

15690. Cast. Carrollton, Ky. J. W. Milner.

15787. Cast. Carrollton, Ky. J. W. Milner. Nov. 5, 1873.

Pelodichthys olivaris, (Raf.) Gill & Jordan.—MUD CAT-FISH.—Ohio Valley to Iowa and south.

15689. Cast. Carrollton, Ky. J. W. Milner. Nov. 5, 1875.

ORDER APODES.

CONGRIDÆ.

Conger oceanica, (Mitch.) Gill.—CONGER EEL.—Newfoundland to West Indies.

14873. Cast. Weight 11 lbs. Block Id., R. I. U. S. Fish Commission. Sept. 26, 1874.
 14872. Cast. Block Island, R. I. U. S. Fish Commission. Sept. 26, 1874.
 287. Photograph. U. S. Fish Commission.

ANGUILLIDÆ.

Anguilla rostrata, (Les.) DeKay.—COMMON EEL.—Eastern United States.

15731. Cast. New York. E. G. Blackford. Aug. 26, 1874.
 16392. Cast. New York. E. G. Blackford. Aug. 26, 1874.
 16729. Cast. Potomac River. J. W. Milner.
 16416. Cast. Wood's Holl, Mass. Wm. Palmer. Sept. 6, 1875.
 10749. Cast. Wood's Holl, Mass. V. N. Edwards.
 286. Photograph. U. S. Fish Commission.
 480-81. Color sketches. (Richard.) U. S. Fish Commission.
 773. Color sketch. Prof. Alex. Agassiz.

NEMICHTHYIDÆ.

Nemichthys scolopaceus? Rich.—SNIPE EEL.—Deep waters of the Atlantic.

21195. Alcoholic. George's Bank. U. S. Fish Commission.

SYNAPHOBRANCHIDÆ.

Synaphobranchus pinnatus, (Gronow) Günther.—MADEIRA EEL.—Deep waters of the Atlantic.

21848. Alcoholic. Sable Island Bank. U. S. Fish Commission.

ORDER CYCLOGANOIDEI.

AMIIDÆ.

Amia calva, Linn.—MUD-FISH.—Central and Southeastern United States.

11134. Cast. Sandusky, Ohio. J. W. Milner.
 16534. Cast. New York market. E. G. Blackford. Sept. 24, 1875.
 288, 289. Photograph. U. S. Fish Commission.
 556. Color sketch. (Burkhardt.) Charleston, S. C. Prof. Alex. Agassiz. 1853.

ORDER RHOMBOGANOIDEI.

LEPIDOSTEIDÆ.

Lepidosteus osseus, Linn.—GAR PIKE.—Mississippi Valley and Atlantic States south of Delaware River.

10736. Cast. Sandusky, Ohio. J. W. Milner.
 10717. Cast. Sandusky, Ohio. J. W. Milner.
 15366. Cast. Potomac River. J. W. Milner.
 290, 291. Photographs. U. S. Fish Commission.

Lepidosteus platystomus, Raf.—SHORT-NOSED GAR PIKE.—Great Lakes and streams south and west to the Rocky Mountains.

3241. Alcoholic. Cleveland, Ohio. Prof. Baird.

ORDER SELACHOSTOMI.

POLYODONTIDÆ.

Polyodon folium, Lac.—PADDLE-FISH.—Fresh waters of Mississippi Valley.

14871. Cast. Cincinnati, Ohio. J. W. Milner. Nov. 5, 1873.
 15475. Cast. Madison, Ind. George Spangler. June, 1875.
 292. Photograph. U. S. Fish Commission.

ORDER CHONDROSTEI.

ACIPENSERIDÆ.

Acipenser sturio, Linn.—SHARP-NOSED STURGEON.—North Atlantic; ascending rivers.

15745. Cast. New York. E. G. Blackford.
 14866. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 14877. Potomac River. J. W. Milner.
 293, 294. Photographs. U. S. Fish Commission.
 519. Color sketch. (Richard.) U. S. Fish Commission.

Acipenser brevirostris, Les.—SHORT-NOSED STURGEON.—Atlantic Coast of United States.

- 295, 296. Photographs. U. S. Fish Commission.
 520. Color sketch. (Richard.) U. S. Fish Commission.

Acipenser rubicundus, Les.—LAKE STURGEON.—Great Lakes and south.

- 297, 298, 299, 300, and 301. Photographs. U. S. Fish Commission.

Acipenser maculosus, Les.—LONG-NOSED STURGEON.—Great Lakes and Western Rivers.

607-8. Color sketch. Huntsville, Ala. Prof. Alex. Agassiz. 1853.

Scaphyrhynchops platyrhynchus, (Raf.) Gill.—SHOVEL-NOSED STURGEON.—Mississippi Valley.

15939½. Cast. Ohio River. J. W. Milner.

15939. Cast. Ohio River. J. W. Milner.

15476. Cast. Madison, Ind. George Spangler. June, 1875.

302, 303. Photographs. U. S. Fish Commission.

VI. ELASMOBRANCHIATES.

ORDER HOLOCEPHALI.

CHIMÆRIDÆ.

Chimæra plumbea, Gill.—BROWN CHIMÆRA.—Deep waters of Western Atlantic.

21904. Cast. Banquereau. Capt. Joseph W. Collins.

Hydrolagus Colliei, (Bennett) Gill.—PACIFIC CHIMÆRA.—North-west coast of North America.

993. Alcoholic. Puget Sound. Dr. George Suckley.

ORDER RAIÆ.

MYLIOBATIDÆ.

Myliobatis Fremenvillei, (Les.) Storer.—EAGLE RAY.—Cape Cod to Florida.

16603. Cast. Wood's Holl, Mass. U. S. Fish Commission. Sept. 23, 1875.

14417. Cast. Wood's Holl, Mass. U. S. Fish Commission.

306-319. Photographs. U. S. Fish Commission.

760. Color sketch. U. S. Fish Commission.

Myliobatis californicus, Gill.—CALIFORNIA STING RAY.—Coast of California.

16687. Cast. San Francisco, Cal. L. Stone.

320. Photograph. U. S. Fish Commission.

959. Color sketch. U. S. Fish Commission.

Rhinoptera quadriloba, (Les.) Cuv.—COW-NOSED RAY.—Cape Cod to Florida.

304, 305. Photographs. U. S. Fish Commission.

Bull. N. M. No. 14—5

TRYGONIDÆ.**Trygon centrura**, (Mitch.) Gill.—STING RAY.—Cape Cod to Florida.

14920. Cast. Wood's Holl, Mass. U. S. Fish Commission. June, 1873.

14882. Cast. Portland, Me. Skillings.

324, 325, 326, 327, 328, 329. Photographs. U. S. Fish Commission.

Trygon Sabina, Lesueur.—RIVER STING RAY.—Southern Coast entering rivers.

18058. Alcoholic. Lake Monroe, Fla. Prof. Baird.

Trygon hastata, (De Kay) Storer.—SMOOTH STING RAY.—Southern Coast.

21626. Skin. West Florida. Dr. J. W. Velie.

Pteroplatea maclura, Mull. & Henle.—BUTTERFLY RAY.—Cape Cod to Florida.

16319. Cast. Wood's Holl, Mass. U. S. Fish Commission. Aug. 5, 1875.

321, 322, 323. Photographs. U. S. Fish Commission.

TORPEDINIDÆ.**Torpedo occidentalis**, Storer.—TORPEDO; CRAMP-FISH.—Cape Cod to Florida.

14912. Cast. Wood's Holl, Mass. U. S. Fish Commission. July 22, 1873.

14919. Cast. Wood's Holl, Mass. U. S. Fish Commission. July 5, 1873.

16665. Cast. Wood's Holl, Mass. U. S. Fish Commission. July 5, 1873.

330, 331, 332, 333, 334, 335. Photographs. U. S. Fish Commission.

RAIIDÆ.**Raia erinacea**, Mitchill.—CLEAR-NOSED SKATE.—Nova Scotia to Florida.

343, 344, 345, 346. Photographs. U. S. Fish Commission.

14881. Cast. Portland, Me. U. S. Fish Commission.

10612. Cast. Wood's Holl, Mass. V. N. Edwards.

16508. Cast. Wood's Holl, Mass. V. N. Edwards. May 14, 1873.

336, 337, 338, 339, 340, 341, 342. Photographs. U. S. Fish Commission.

408, 409. Color sketches. (Richard.) U. S. Fish Commission.

761-2-3. Color sketches. U. S. Fish Commission.

768-9. Color sketches. U. S. Fish Commission.

774-5. Color sketches. Prof. Alex. Agassiz.

Raia ocellata, Mitchill.—SPOTTED SKATE.—New England Coast.

19434. Alcoholic. Nahant, Mass. Mus. of Comp. Zoology.

Raia radiata, Donovan.—SPINY SKATE.—Northern Atlantic.

19432. Alcoholic. Nahant, Mass. Mus. of Comp. Zoology.

Raia eglanteria, Lacep.—EGLANTINE SKATE.—Cape Ann and southward.

19439. Alcoholic. S. New England. Mus. of Comp. Zoology.

Raia lævis, Mitch.—SHARP-NOSED SKATE.—Nova Scotia to Florida.

14904. Cast. (Young male.) Montauk Point, N. Y. U. S. Fish Commission.
Aug. 1, 1874.

402. Color sketch. U. S. Fish Commission.

15704. Cast. (Young.) Noank, Conn. U. S. Fish Commission. Aug. 1, 1874.

15703. Cast. Noank, Conn. U. S. Fish Commission.

16658. Cast. (Young male.)

15707. Cast.

16659. Cast.

347, 348, 349, 350, 351. Photographs. U. S. Fish Commission.

RHINOBATIDÆ.**Rhinobatus productus**, Girard.—LONG-NOSED SKATE.—Coast of California.

16704. Cast. San Francisco, Cal. L. Stone.

352. Photograph. U. S. Fish Commission.

PRISTIDÆ.**Pristis antiquorum**, (Linn.) Lath.—SAW-FISH.—Cape Cod to Florida; Tropical Seas.

12453. Stuffed skin. Florida. H. A. Ward.

SQUATINIDÆ.**Squatina Dumerili**, Les.—MONK-FISH; FIDDLE-FISH.—Cape Cod to Florida; Temperate and Tropical Seas.

14890. Cast. Wood's Holl, Mass. V. N. Edwards. Sept. 1, 1873.

16410. Cast. Menemsha Bight, Mass. Jason Luce. Sept. 1, 1875.

353, 354, 355. Photographs. U. S. Fish Commission.

ORDER SQUALI:**LAMNIDÆ.****Lamna cornubica**, (Gmel.) Fleming.—PORBEAGLE SHARK.—Atlantic, Mediterranean, Japan.

21856. Alcoholic. Gloucester, Mass. U. S. Fish Commission.

Isuropsis Dekayi, Gill. (d. s.)—MACKEREL SHARK.—Newfoundland to Florida.

15949. Cast. Wood's Holl, Mass. V. N. Edwards. Sept. 20, 1873.

15973. Cast. Wood's Holl, Mass. V. N. Edwards. Dec., 1875.

446. Color sketch. (Richard.) U. S. Fish Commission.

Carcharodon Atwoodi, (Storer) Gill.—ATWOOD'S SHARK; MAN-EATER.—Newfoundland to Florida.

— Jaws.

Cynocephalus glaucus, (Linn.) Gill.—BLUE-HEADED SHARK.—Atlantic.

19929. Alcoholic. Wood's Holl, Mass. V. N. Edwards.

ODONTASPIDIDÆ.**Eugomphodus littoralis**, Gill.—SAND SHARK.—Pelagic.

16647. Cast. Wood's Holl, Mass. U. S. Fish Commission.

16648. Cast. Wood's Holl, Mass. U. S. Fish Commission.

419. Color sketch. (Richard.) U. S. Fish Commission.

445. Color sketch. (Richard.) U. S. Fish Commission.

ALOPECIDÆ.**Alopias vulpes**, (Linn.) Bon.—THRESHER; SWINGLE-TAIL.—Atlantic and Mediterranean.

16256. Cast. Menemsha Bight, Mass. U. S. Fish Commission. July 30, 1875.

15733. Cast. Wood's Holl, Mass. U. S. Fish Commission.

417. Color sketch. (Richard.) U. S. Fish Commission.

SPHYRNIDÆ.**Sphyrna zygaena**, (Linn.) Mull. & Henle.—HAMMER-HEAD SHARK.—Tropical and Subtropical Seas.

15833. Cast. Noank, Conn. U. S. Fish Commission.

360, 361, 362, 363, 364. Photographs. U. S. Fish Commission.

462. Color sketch. (Richard.) U. S. Fish Commission.

Reniceps tiburo, (Linn.) Gill.—SHOVEL-HEAD SHARK.—Atlantic and Western Pacific.

12714. Cast.

— Alcoholic. Beesley's Point, N. J. S. F. Baird.

GALEORHINIDÆ.**Eulamia Milberti**, (Mull. & Henle) Gill.—BLUE SHARK.—Cape Cod to Florida.

15742. Cast. Wood's Holl, Mass. V. N. Edwards.

366, 367, 368, 369. Photographs. U. S. Fish Commission.

418. Color sketch. (Richard.) U. S. Fish Commission.

Eulamia obscurus, (Les.) Gill.—DUSKY SHARK.—Cape Cod to Florida.

16070. Cast. Wood's Holl, Mass. U. S. Fish Commission. July 10, 1875.

Isogomphodon maculipinnis, Poey.—SPOTTED-FIN SHARK.—Tropical and Subtropical Seas.

356, 357, 358, 359. Photographs. U. S. Fish Commission.

425. Color sketch. (Richard.) U. S. Fish Commission.

16401. Cast. Wood's Holl, Mass. U. S. Fish Commission.

Galeocerdo tigrinus, Mull. & Henle.—TIGER SHARK.—Atlantic; Indian Ocean.

15740. Cast. Wood's Holl, Mass. V. N. Edwards. July 22, 1873.
 16069. Cast. Buzzard's Bay, Mass. U. S. Fish Commission. 1875.
 370, 371. Photographs. U. S. Fish Commission.

Mustelus canis, (Mitch.) De Kay.—SMOOTH DOG-FISH.—Cape Cod to Cape Hatteras.

14908. Cast. Norfolk, Va. U. S. Fish Commission. June 25, 1873.
 14925. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 10734. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 10733. Cast. Wood's Holl, Mass. U. S. Fish Commission.
 16649. Cast. (Male.) Wood's Holl, Mass. U. S. Fish Commission.
 372, 373, 374, 375. Photographs. U. S. Fish Commission.
 —. Color sketches. (Richard.) U. S. Fish Commission.

GINGLYMOSTOMATIDÆ.**Ginglymostoma cirratum**, (Gmel.) M. & H.—NURSE SHARK.—Tropical Atlantic.

16909. Alcoholic. Chesapeake Bay. Maryland Academy of Science.

SPINACIDÆ.**Squalus americanus**, (Storer) Gill.—SPINED DOG-FISH.—Newfoundland to Cape Hatteras.

16255. Cast. Martha's Vineyard. U. S. Fish Commission. July 30, 1875.
 376, 377. Photographs. U. S. Fish Commission.
 426. Color sketch. (Richard.) U. S. Fish Commission.

Centroscyllium Fabricii, (Reinh.) M. & H.—GREENLAND DOG-FISH.—Deep waters of Western Atlantic.

21622. Cast. Lat. 42° 52' N., Lon. 63° 50' W. 220 to 260 fathoms. U. S. Fish Commission.

SCYMNIDÆ.**Somniosus microcephalus**, (Bloch.) Gill.—SLEEPER SHARK.—North Atlantic.

- 378, 379. Photographs. U. S. Fish Commission.
 447. Color sketch. (Richard.) U. S. Fish Commission.
 16630. Cast. Gulf of St. Lawrence. Renfrew & Co. Nov. 20, 1875.

Centroscymnus cœlolepis, Bocage & Capello.—BLACK DOG-FISH.—Deep waters of North Atlantic.

21621. Cast. Lat. 42° 40' N., Lon. 63° 50' W. 220 to 260 fathoms. U. S. Fish Commission.

ECHINORHINIDÆ.

Echinorhinus spinosus, (Gmel.) Delamoille.—SPINY SHARK.—
North Atlantic.

21913. Cast. Provincetown, Mass. E. E. Small.

VII. MARSIPOBRANCHIATES.

ORDER HYPEROARTIA.

PETROMYZONTIDÆ.

Petromyzon americanus.—LAMPREY EEL.

489-90. Color sketches. Prof. Alex. Agassiz.

ORDER HYPEROTRETI.

MYXINIDÆ.

Myxine glutinosa, Linn.—HAG-FISH; SLIME-FISH.—North At-
lantic.

21679. Alcoholic. Le Have Bank, N. B. U. S. Fish Commission.

VIII. LEPTOCARDIANS.

ORDER CIRROSTOMI.

BRANCHIOSTOMIDÆ.

Branchiostoma lubricum, Costa.—LANCELET.—Cosmopolitan.

21877. Alcoholic. Bermudas. G. Brown Goode.