

OLD SERIES, } CONTINUATION OF THE } NEW SERIES,  
VOL. XVIII } BULLETIN OF THE NUTTALL ORNITHOLOGICAL CLUB. } VOL. X

---

# The Auk

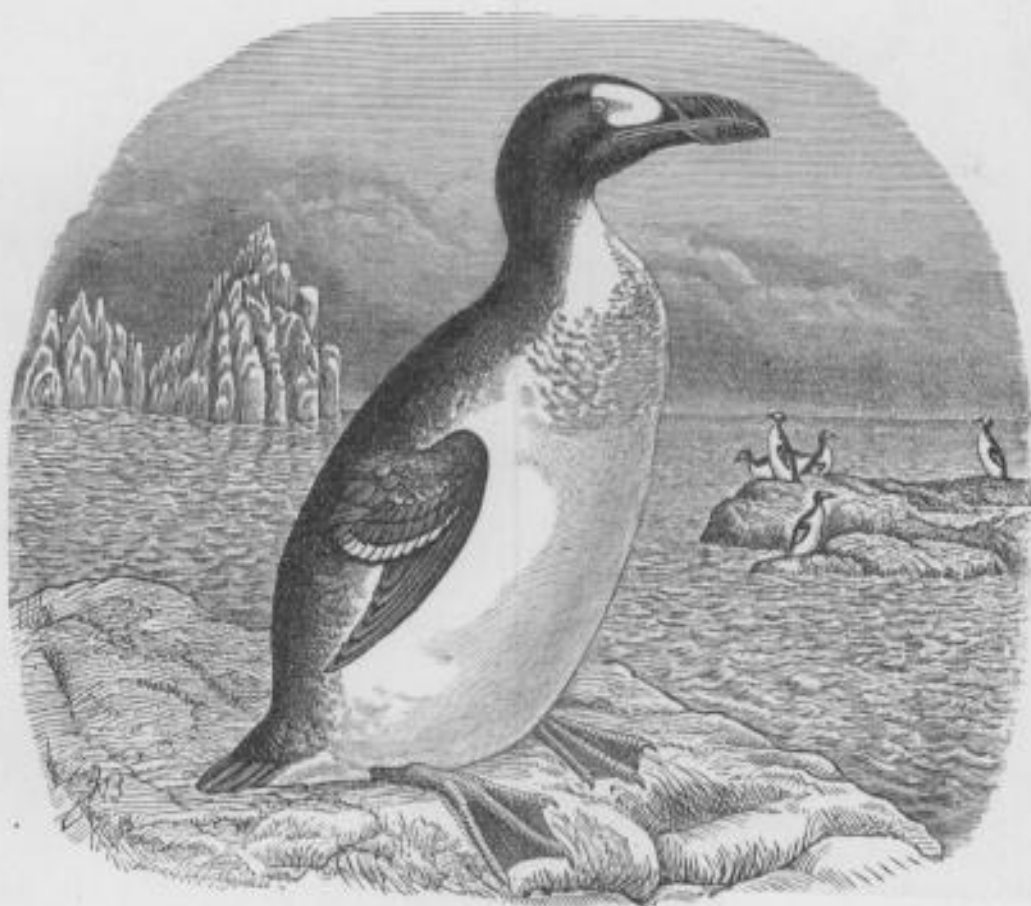
A Quarterly Journal of Ornithology

EDITOR

J. A. ALLEN

ASSOCIATE EDITOR

C. F. BATCHELDER



VOLUME X

PUBLISHED FOR

**The American Ornithologists' Union**

NEW YORK

L. S. FOSTER

1893

Volume 10 No. 1

OLD SERIES,  
VOL. XVIII }

CONTINUATION OF THE  
BULLETIN OF THE NUTTALL ORNITHOLOGICAL CLUB.

{ NEW SERIES,  
VOL. X

# The Auk

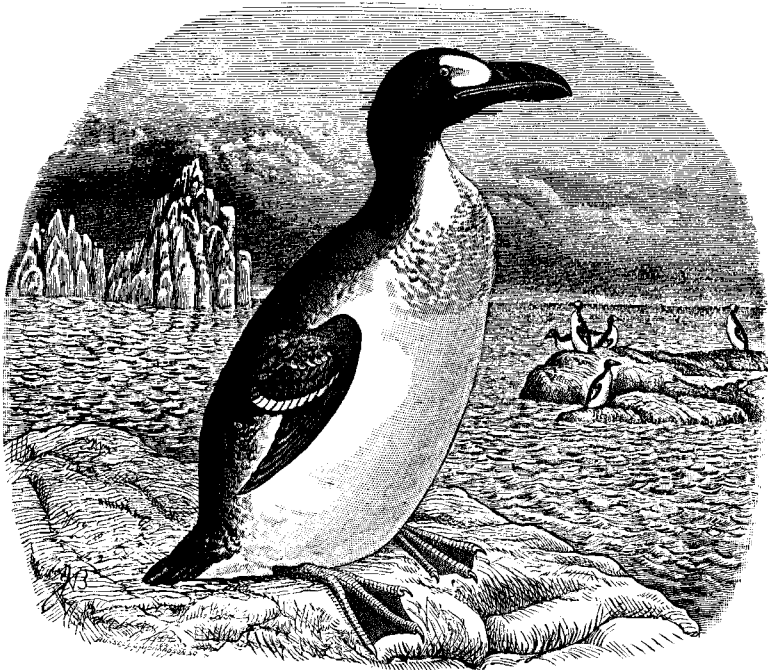
A Quarterly Journal of Ornithology

EDITOR

J. A. ALLEN

ASSOCIATE EDITOR

C. F. BATCHELDER



VOLUME X

PUBLISHED FOR

**The American Ornithologists' Union**

NEW YORK

L. S. FOSTER

1893

## CONTENTS OF VOLUME X.

### NUMBER I.

	PAGE
SUMMER BIRDS OF PRINCE EDWARD ISLAND. By <i>Jonathan Dwight</i> , <i>Fr.</i>	I
NOTES ON CERTAIN WASHINGTON AND BRITISH COLUMBIA BIRDS. By <i>Samuel N. Rhoads</i> .	16
OBSERVATIONS ON THE KNOT ( <i>Tringa canutus</i> ). By <i>George H.</i> <i>Mackay</i> .	25
SUMMER BIRDS OF INDIANA AND CLEARFIELD COUNTIES, PENN- SYLVANIA. By <i>W. E. Clyde Todd</i> .	35
DESCRIPTION OF A NEW JUNCO FROM CALIFORNIA. By <i>Leverett M.</i> <i>Loomis</i> .	47
ADDITIONS TO THE LIST OF MANITOBAN BIRDS. By <i>Ernest E.</i> <i>Thompson</i> .	49
ON THE GENUS <i>Pitta</i> VIEILLOT. By <i>D. G. Elliot</i> .	51
THE NESTING OF THE BLACK DUCK ON PLUM ISLAND. By <i>Charles</i> <i>Slover Allen</i> .	53
FIFTH SUPPLEMENT TO THE AMERICAN ORNITHOLOGISTS' UNION CHECK-LIST OF NORTH AMERICAN BIRDS.	59
TENTH CONGRESS OF THE AMERICAN ORNITHOLOGISTS' UNION.	63

### RECENT LITERATURE.

The British Museum Catalogue of the Picariæ, 66; Cory's 'Catalogue of West Indian Birds,' 69; Dixon's 'The Migration of Birds,' 70; Torrey's 'The Foot-path Way,' 74; Ornithological Report of the Canadian Institute, 74; Publications Received, 75.

### GENERAL NOTES.

*Larus argentatus smithsonianus*, 76; *Branta canadensis*, 77; *Branta bernicla*, 77; Notes on the American Bittern, 77; *Tringa alpina* on Long Island, New York, 78; The Migration of *Numenius borealis* in Massachusetts in 1892, 79; *Charadrius squatarola*, 79; The Migration of *Charadrius dominicus* in Massachusetts in 1892, 79; Black Vulture in Maine, 82; Some Additional Eastern Records of Swainson's Hawk (*Buteo swainsoni*), 82; Swainson's Hawk in the East, 83; The Nest of *Panyptila cayenensis*, 84; Sharp-tailed Finches of the New Jersey Coast, 85; Capture of

1401398

the Louisiana Tanager at New Haven, Connecticut, 86; *Dendroica kirtlandi* in Minnesota, 86; Occurrence and Breeding of the Kentucky Warbler in Connecticut, 86; *Heleodytes* vs. *Campylorhynchus*, 86; *Salpinctes obsoletus* in Washington and Oregon, 87; The Carolina Wren in the Lower Hudson Valley, 87; *Sitta canadensis* appearing in Numbers in the District of Columbia, 88; Notes from Connecticut, 89; On the Occurrence of Three Rare Birds on Long Island, New York, 90; Rare Birds near Washington, D. C., 91.

## CORRESPONDENCE.

A Neglected Branch of Ornithology, 93.

## NOTES AND NEWS.

Obituary, Professor John Strong Newberry, 95; Dr. Philo R. Hoy, 95. A. O. U. By-Laws and Rules, 96; British Ornithologists' Club, 96; A New Journal, 96.

## NUMBER II.

THE GEOGRAPHICAL ORIGIN AND DISTRIBUTION OF NORTH AMERICAN BIRDS, CONSIDERED IN RELATION TO FAUNAL AREAS OF NORTH AMERICA. By <i>F. A. Allen</i> .	97
NOTES ON THE PLUMAGE OF SOME BIRDS FROM UPPER SOUTH CAROLINA. By <i>Leverett M. Loomis</i> .	151
FURTHER NOTES ON THE EVENING GROSBEAK. By <i>Amos W. Butler</i> .	155
THE CHIONIDIDÆ. By <i>R. W. Shufeldt</i> .	158
OUR SCOTERS. By <i>G. Trumbull</i> .	165
OBSERVATIONS ON THE BIRDS OF JAMAICA, WEST INDIES. II. A LIST OF THE BIRDS RECORDED FROM THE ISLAND, WITH ANNOTATIONS. By <i>W. E. D. Scott</i> .	177
SUPPLEMENTARY REMARKS ON THE GENUS <i>Pitta</i> . By <i>L. Stejneger</i> .	181
VIAILLOT'S 'ANALYSE' AND BUFFON'S 'BRÈVE.' By <i>D. G. Elliot</i> .	184

## RECENT LITERATURE.

Keeler on the 'Evolution of the Colors of North American Land Birds,' 189; Beddard's 'Animal Coloration,' 195; 'Our Hawks and Owls in their Relation to Agriculture,' 199; Bolles's 'Chronicles,' 201; Foster's 'Bibliography of the Ornithological Writings of George N. Lawrence,' 202; Publications Received, 203.

## GENERAL NOTES.

*Alle alle* in Virginia, 204; The American Woodcock (*Philohela minor*) in Great Numbers at Mount Pleasant, South Carolina, 204; Gabel's Partridge at San Bernardino, California, 204; *Antrostomus vociferus* in South Carolina in Winter, 205; The Horned Lark (*Otocoris alpestris*) near Charleston, South Carolina, 205; *Acanthis linaria* in Alabama, 205; The Field Sparrow Wintering in Massachusetts, 205; *Junco ridgwayi* in Colorado, 205; Unusual Habits of Lincoln's Sparrow, 206; Wintering of *Regulus calendula* at Washington, D. C., 206; Notes on some Connecticut Birds, 206; Winter Birds in Connecticut, 207; Notes on *Helminthophila chrysoptera*, *pinus*, *leucobronchialis*, and *lawrencei* in Connecticut, 208; Correction, 209; The Occurrence in Summer of Certain Warblers at Beaver, Pennsylvania, 209.

## CORRESPONDENCE.

"A Neglected Branch of Ornithology," 210.

## NOTES AND NEWS.

The Audubon Monument, 211; Captain Bendire's Work, 211; Pterylography of the Gallinæ, 211; Mr. Chapman in Trinidad, 211; A New Edition of 'Lewis and Clarke,' 212; 'The Birds of Montreal,' 212; A. O. U. Membership Lists, 212.

## NUMBER III.

A HYBRID SPARROW ( <i>Zonotrichia albicollis</i> + <i>Junco hyemalis</i> ). By <i>Witmer Stone</i> .	213
DESCRIPTION OF A NEW HUMMINGBIRD FROM NORTHERN MEXICO. By <i>William Brewster</i> .	214
DESCRIPTION OF A NEW MARSH WREN, WITH CRITICAL NOTES ON <i>Cistothorus muriana</i> SCOTT. By <i>William Brewster</i> .	215
A LIST OF THE BIRDS COLLECTED ON THE ISLAND OF TOBAGO, WEST INDIES, BY W. W. BROWN, JR., DURING APRIL AND MAY, 1892. By <i>Charles B. Cory</i> .	220
BIRDS OBSERVED ON MACKINAC ISLAND, MICHIGAN, DURING THE SUMMERS OF 1889, 1890, AND 1891. By <i>Stewart Edward White</i> .	221
A BROOD OF YOUNG FLICKERS ( <i>Colaptes auratus</i> ) AND HOW THEY WERE FED. By <i>William Brewster</i> .	231
ON THE OCCURRENCE OF CERTAIN BIRDS IN BRITISH COLUMBIA. By <i>William Brewster</i> .	236
THE <i>Vireo huttoni</i> GROUP, WITH DESCRIPTION OF A NEW RACE FROM VANCOUVER ISLAND. By <i>Samuel N. Rhoads</i> .	238

SOME ADDITIONS TO THE AVIFAUNA OF NORTH CAROLINA, WITH NOTES ON SOME OTHER SPECIES. By <i>C. S. Brimley</i> . . . . .	241
FLY LINES. By <i>George H. Mackay</i> . . . . .	245
THE GEOGRAPHICAL DISTRIBUTION OF THE GENUS <i>Megascops</i> IN NORTH AMERICA. By <i>Edwin M. Hasbrouck</i> . . . . .	250
BIRD NOTES FROM LONG ISLAND. By <i>William Dutcher</i> . . . . .	265
NOTES ON SOME RARE BIRDS IN THE COLLECTION OF THE LONG ISLAND HISTORICAL SOCIETY. By <i>William Dutcher</i> . . . . .	267
NOTES ON TWO COSTA RICAN BIRDS. By <i>George K. Cherrie</i> . . . . .	278
NOTES ON THE TRUNK SKELETON OF A HYBRID GROUSE. By <i>R. W. Shufeldt</i> . . . . .	281

## RECENT LITERATURE.

Ornithology of the Death Valley Expedition, 285; Hatch's 'Notes on the Birds of Minnesota,' 288; Rhoads's Observations on British Columbia and Washington Birds, 290; Minor Ornithological Publications, 292; Publications Received, 297.

## GENERAL NOTES.

Notes on Cassin's Auklet, 298; Behavior of a Sandhill Crane, 300; *Ionornis martinica* in Kansas, 300; *Pseudogryphus californianus*, 300; *Cathartes aura* in Chenango County, New York, 301; *Strix pratincola* in New York, 301; Short-eared Owl Nesting on Plum Island, New York, 301; *Xanthocephalus xanthocephalus* and *Spiza americana* in Maine, 302; the Ipswich Sparrow (*Ammodramus princeps*) on the Coast of Georgia, 302; A Hybrid Tanager, 302; The Summer Tanager in Connecticut, 303; Cape May Warbler at Shelter Island, New York, 303; Nesting Habits of *Galeoscoptes carolinensis*, 303; Connecticut Notes, 305; Correction, 305; The Faunal Position of Lower California, 305.

## NOTES AND NEWS.

Obituary, Jenness Richardson, 307; Unveiling of the Audubon Monument, 308; Prof. Newton's 'Dictionary of Birds,' 308; Mr. Chapman in Trinidad, 308.

## NUMBER IV.

ON THE CHANGES OF PLUMAGE IN THE BOBOLINK ( <i>Dolichonyx oryzivorus</i> ). By <i>Frank M. Chapman</i> . . . . .	309
THE FOOD OF HUMMINGBIRDS. By <i>Frederic A. Lucas</i> . . . . .	311
ORNITHOLOGY AT THE WORLD'S FAIR. By <i>Frank M. Chapman</i> . . . . .	315

THE HUDSONIAN CHICKADEE AND ITS ALLIES, WITH REMARKS ON THE GEOGRAPHIC DISTRIBUTION OF BIRD RACES IN BOREAL AMERICA. By <i>Samuel N. Rhoads</i> . . . . .	321
OBSERVATIONS ON THE BREEDING HABITS OF <i>Larus atricilla</i> IN MASSACHUSETTS. By <i>George H. Mackay</i> . . . . .	333
ADDITIONAL NOTES ON THE BIRDS OF THE SUWANEE RIVER. By <i>Arthur T. Wayne</i> . . . . .	336
OBSERVATIONS ON THE BIRDS OF JAMAICA, WEST INDIES. II. A LIST OF THE BIRDS RECORDED FROM THE ISLAND, WITH ANNOTATIONS. By <i>W. E. D. Scott</i> . . . . .	339
PRELIMINARY DESCRIPTIONS OF ONE NEW SPECIES AND TWO NEW SUBSPECIES OF BIRDS FROM THE ISLAND OF TRINIDAD. By <i>Frank M. Chapman</i> . . . . .	342

RECENT LITERATURE.

Shufeldt on Fossil Birds from Oregon, 343; Shufeldt on *Icthyornis*, and on the Classification of the Longipennes, 345; The Affinities of Hummingbirds and Swifts, 345; Ridgway on New Birds from Mexico and the West Indies, 346; Stejneger on Japanese Birds, 346; Food Habits of Birds, 347; Hasbrouck on 'Evolution and Dichromatism in the Genus *Megascops*,' 347; Cook's 'Birds of Michigan,' 351; Averill's List of the Birds of Bridgeport, Conn., 352; Summer Birds of Greene County, Pa., 353; Nutting's Zoological Explorations on the Lower Saskatchewan River, 353; A New List of Chilian Birds, 354; Berlepsch and Peters on Birds from Curaçao, 355; Hartert on Birds from Aruba, Bonaire and Curaçao, 355; Newton's 'Dictionary of Birds,' 357; Publications Received, 360.

GENERAL NOTES.

Capture of the Black-capped Petrel Inland in Virginia, 361; *Fregata aquila* in California, 362; the Cinnamon Teal (*Anas cyanoptera*) in Florida, 362; an Additional Specimen of the Labrador Duck, 363; Capture of Another *Ardetta neoxena* at Toronto, Ontario, 363; Another *Megascops flammeolus* for Colorado, 364; the Road-runner in Kansas, 364; Two Corrections, 365; the Number of Ribs in *Cypseloides*, 365; an Attractive Addition to the Avifauna of the United States—*Icterus gularis yucatanensis* von Berlepsch, 366; Behavior of a Summer Tanager, 367; Breeding of the Rough-winged Swallow at Shelter Island, New York, 369; *Cereba* versus *Certhiola*, 369; Stray Notes from the Vicinity of Muskeget Island, Massachusetts, 370; Notes on some Connecticut Birds, 371; Connecticut Notes, 371; Rare Birds near Baltimore, Maryland, 371.

CORRESPONDENCE.

The Evolution of the Colors of North American Land Birds—a Reply to Criticism, 373; Birds of British Columbia and Washington, 380.

## NOTES AND NEWS.

Obituary, Austin F. Park, 384; Benjamin F. Goss, 385; Charles F. Adams, 385; Eleventh Congress of the A. O. U., 386; a 'Congress on Birds,' 386; Nehrling's 'Birds of Song and Beauty,' 387; Postage on Natural History Specimens, 388; 'Novitates Zoologicæ,' 388; 'Avifauna of Laysan,' 388.

INDEX . . . . .	389
ERRATA . . . . .	407
TITLE PAGE AND CONTENTS . . . . .	i-viii
OFFICERS AND COMMITTEES OF THE A. O. U. . . . .	ix
MEMBERS OF THE A. O. U. . . . .	x

## PLATES IN VOLUME X.

I. Black Duck's Nest. . . . .	I
II. Black Duck Group. . . . .	I
III. Map of North American Region, showing Subregions and Provinces. . . . .	97
IV. Map, showing the Subprovinces of the Warm Temperate. . . . .	97
V. Bills of <i>Oidemia deglandi</i> . . . . .	176
VI. Hybrid, <i>Funco</i> + <i>Zonotrichia</i> . . . . .	213
VI.a Map, showing the Distribution of the North American Forms of <i>Megascops</i> . . . . .	264
VI.b Map, showing the Distribution of the Central American Forms of <i>Megascops</i> . . . . .	264
VII. Bobolink ( <i>Dolichonyx oryzivorus</i> ) . . . . .	309



OFFICERS AND COMMITTEES OF THE AMERICAN  
ORNITHOLOGISTS' UNION. 1892-93.

---

	Expiration of Term
COUES, ELLIOTT, <i>President</i> .....	November, 1893.
BREWSTER, WILLIAM, } <i>Vice-Presidents</i> .....	" 1893.
HENSHAW, HENRY W., }	
SAGE, JOHN H., <i>Secretary</i> .....	" 1893.
DUTCHER, WILLIAM, <i>Treasurer</i> .....	" 1893.

ADDITIONAL MEMBERS OF THE COUNCIL.

ALLEN, J. A.....	November, 1893.
BATCHELDER, C. F. ....	" 1893.
CORY, CHARLES B.....	" 1893.
ELLIOT, D. G.....	" 1893.
MERRIAM, C. HART.....	" 1893.
RIDGWAY, ROBERT.....	" 1893.
STEJNEGER, LEONHARD.....	" 1893.

EDITORIAL STAFF OF 'THE AUK.'

ALLEN, J. A., <i>Editor</i> .....	November, 1893.
BATCHELDER, C. F., <i>Associate Editor</i> .....	" 1893.

COMMITTEES.

*Committee on Publications.*

COUES, ELLIOTT, <i>Chairman</i> .	ALLEN, J. A.
SAGE, JOHN H., <i>Secretary</i> .	BATCHELDER, C. F.
	DUTCHER, WILLIAM.

*Committee of Arrangements for the Meeting of 1893.*

COUES, ELLIOTT, <i>Chairman</i> .	BATCHELDER, C. F.
SAGE, JOHN H., <i>Secretary</i> .	BREWSTER, WILLIAM.
	CORY, CHARLES B.

MEMBERS OF THE AMERICAN ORNITHOLOGISTS'  
UNION. DECEMBER, 1892.

ACTIVE MEMBERS.

[Omission of date indicates a Founder.]

	Date of Election.
ALDRICH, Hon. CHARLES, Boone, Iowa.....	—
ALLEN, Dr. J. A., Am. Mus. Nat. Hist., 77th St. and 8th Ave., New York City.....	—
BARROWS, Prof. W. B., Dept. of Agriculture, Washington, D. C.....	1883
BATCHELDER, CHARLES FOSTER, Cambridge, Mass.....	—
BELDING, LYMAN, Stockton, Cala.....	1883
BENDIRE, Capt. CHARLES E., U. S. A., Smiths. Inst., Washington, D. C.....	—
BICKNELL, EUGENE P., P. O. Box 2958, New York City.....	—
*BREWSTER, WILLIAM, Cambridge, Mass.....	—
BROWN, NATHAN CLIFFORD, 85 Vaughan St., Portland, Me.....	—
BRYANT, WALTER E., Box 2247, San Francisco, Cala.....	1888
CHADBOURNE, Dr. ARTHUR P., care of Baring Bros., London.....	1889
CHAMBERLAIN, MONTAGUE, Harvard College, Cambridge, Mass....	—
CHAPMAN, FRANK M., Am. Mus. Nat. Hist., 77th St. and 8th Ave., New York City.....	1888
COOKE, Prof. W. W., Burlington, Vt.....	1884
*CORY, CHARLES B., 8 Arlington St., Boston, Mass.....	—
*COUES, Dr. ELLIOTT, Smiths. Inst., Washington, D. C.....	—
DEANE, RUTHVEN, 61 Wabash Ave., Chicago, Ill.....	1883
DUTCHER, WILLIAM, 525 Manhattan Ave., New York City.....	1886
DWIGHT, JONATHAN, Jr., 2 East 34th St., New York City.....	1886
ELLIOT, DANIEL G., Am. Mus. Nat. Hist., 77th St. and 8th Ave., New York City.....	—
FISHER, Dr. ALBERT K., Dept. of Agriculture, Washington, D. C....	—
FOSTER, LYMAN S., 35 Pine Street, New York City.....	1888
GILL, Prof. THEODORE N., Smiths. Inst., Washington, D. C.....	1883
GRINNELL, Dr. GEORGE BIRD, 'Forest and Stream' Office, New York City.....	1883
HENSHAW, HENRY W., Bureau of Ethnology, Washington, D. C....	1883
LANGDON, Dr. F. W., 65 West 7th St., Cincinnati, O.....	1887
LAWRENCE, NEWBOLD T., 51 Liberty St., New York City.....	1883
LOOMIS, LEVERETT M., Tryon, N. C.....	1892
LUCAS, FREDERIC A., U. S. Nat. Mus., Washington, D. C.....	1892

\*Life Member.

McILWRAITH, THOMAS, Hamilton, Ontario.....	—
MEARNS, Dr. EDGAR A., U. S. A., Fort Snelling, Minn.....	—
MERRIAM, Dr. C. HART, Dept. of Agriculture, Washington, D. C....	—
*MERRILL, Dr. JAMES C., U. S. A., Surgeon General's Office, Wash- ington, D. C.....	1883
NEHRLING, H., Public Museum, Milwaukee, Wis.....	1883
NELSON, E. W., care of Ornithological Division, U. S. Department of Agriculture, Washington, D. C.....	1883
PRENTISS, Dr. D. W., 1101 14th St., N. W., Washington, D. C.....	—
PURDIE, HENRY A., West Newton, Mass.....	—
RIDGWAY, ROBERT, Smiths. Inst., Washington, D. C.....	—
ROBERTS, Dr. THOMAS S., 810 6th Ave., S. Minneapolis, Minn.....	1883
*SAGE, JOHN H., Portland, Conn.....	1883
SAUNDERS, WILLIAM E., 188 Dundas St., London, Ontario.....	1883
SCOTT, W. E. D., 58 William St., New York City.....	1886
*SENNETT, GEORGE B., Am. Mus. Nat. Hist., 77th St. and 8th Ave., New York City.....	1883
SHUFELDT, Dr. ROBERT W., U. S. A., Smiths. Inst., Washington, D. C.....	—
STEJNEGER, Dr. LEONHARD, Smiths. Inst., Washington, D. C.....	1884
STONE, WITMER, Acad. Nat. Sci., Philadelphia, Pa.....	1892
*TRUMBULL, GURDON, 970 Asylum Ave., Hartford, Conn.....	1888
WIDMANN, OTTO, Old Orchard, Mo.....	1884

HONORARY MEMBERS.

BERLEPSCH, Count HANS VON, Münden, Germany.....	1890
BOCAGE, Prof. J. V. BARBOZA DU, Royal Museum, Lisbon.....	1883
CABANIS, Prof. Dr. JEAN, Alte Jacobsstrasse, 103 a, Berlin.....	1883
DRESSER, HENRY E., Topclyffe Grange, Farnborough, Beckenham, Kent, England.....	1883
FINSCH, Dr. OTTO, Delminhorst, near Bremen.....	1883
GÄTKE, HEINRICH, Helgoland, via Bremen.....	1884
GIGLIOLI, Dr. HENRY HILLYER, Director Royal Zoölogical Museum, Florence.....	1883
GUNDLACH, Dr. JUAN, Institute de 2a Enseñanza, Havana, Cuba....	1883
HARTLAUB, Dr. GUSTAV, Bremen.....	1883
HUME, ALLAN OCTAVIAN, Simla, India.....	1883
HUXLEY, Prof. THOMAS H., 4 Marlborough Place, Abbey Road, Lon- don, N. W.....	1883
LAWRENCE, GEORGE N., 45 East 21st Street, New York City.....	1890
MILNE-EDWARDS, Prof. ALPHONSE, Rue Cuvier, 57, Paris.....	1883
NEWTON, Prof. ALFRED, University of Cambridge, Cambridge, Eng..	1883
REICHENOW, Dr. ANTON, Königl. Mus. für Naturkunde, Invaliden Str., 43, Berlin.....	1891

\* Life Member.

SALVADORI, Prof. Count TOMMASO, Zoöl. Museum, Turin, Italy.....	1883
SALVIN, OSBERT, Hawksfold, Fernhurst, Haslemere, England.....	1883
SAUNDERS, HOWARD, 7 Radnor Place, Hyde Park, London, W.....	1884
SCLATER, DR. PHILIP LUTLEY, 3 Hanover Sq., London, W.....	1883
SEEBOHM, HENRY, 6 Tenterden St., Hanover Sq., London, W.....	1884
SHARPE, DR. RICHARD BOWDLER, British Museum (Natural History), Cromwell Road, London, S. W.....	1883
WALLACE, Prof. ALFRED RUSSEL, Nutwood Cottage, Frith Hill, Godalming, England.....	1883

## CORRESPONDING MEMBERS.

ALFARO, ANASTASIO, Director National Museum, San José, Costa Rica.....	1888
ALTUM, Dr. C. A., Eberswalde, Germany.....	1884
ANDERSON, DR. JOHN, India Museum, Calcutta.....	1884
BALDAMUS, DR. EDUARD, Moritzzwinger, No. 7, Halle, Germany.....	1884
BLANFORD, W. T., Arts Club, London.....	1884
BLASIUS, DR. RUDOLPH, Brunswick, Germany.....	1884
BLASIUS, DR. WILHELM, Brunswick, Germany.....	1884
BROOKS, W. E., Milton, Ontario.....	1886
BULLER, Sir WALTER LAWRY, 15 Victoria St., Westminster, Lon- don, S. W.....	1883
BUREAU, DR. LOUIS, École de Médecine, Nantes, France.....	1884
BUTLER, Lieut.-Col. E. A., Herringfleet Hall, Lowestoft, England..	1884
BÜTTIKOFER, DR. J., Leyden, Holland.....	1886
CLARKE, WM. EAGLE, Science and Art Museum, Edinburgh.....	1889
COLLETT, Prof. ROBERT, Zoölogical Museum, Christiania, Norway.	1883
COOPER, DR. J. G., Haywards, California.....	1884
CORDEAUX, JOHN, Eaton Hall, Retford, Notts, England.....	1884
DALGLEISH, JOHN J., 8 Atholl Crescent, Edinburgh.....	1883
DAVID, L'Abbé ARMAND, Rue de Sèvres, 95, Paris.....	1883
DOLE, SANFORD B., Honolulu, Hawaiian Ids.....	1888
DUBOIS, DR. ALPHONSE, Museum Nat. History, Brussels.....	1884
DUGÈS, Prof. ALFREDO, Colegio del Estado, Guanajuato, Mexico....	1884
ECHT, ADOLPH BACHOFEN VON, Nussdorf, near Vienna.....	1883
FATIO, DR. VICTOR, Geneva, Switzerland.....	1884
FEILDEN, Lieut.-Col. H. W., West House, Wells, Norfolk, Eng- land.....	1884
FERRARI-PEREZ, Prof. FERNANDO, Naturalist Mexican Geol. Expl. Commission, Pueblo, Mexico.....	1885
FREKE, PERCY EVANS, Rosemount, Dundrum, Co. Dublin, Ireland..	1883
FÜRBRINGER, DR. MAX, Jena, Germany.....	1891
GADOW, DR. HANS, Zoölogical Museum, Cambridge, England.....	1884
GIRTANNER, DR. A., St. Galle, Switzerland.....	1884
GODMAN, F. DU CANE, 10 Chandos Street, Cavendish Sq., London..	1883

GODWIN-AUSTEN, Lieut-Col. H. H., Shalford House, Guilford, Eng-land.....	1884
GRANDIDIER, ALFRED, 6 Rond-Point des Champs Elysées, Paris.....	1883
GURNEY, JOHN HENRY, Keswick Hall, Norwich, England.....	1883
HARGITT, EDWARD, Gladstone Villa, South View, Basingstoke, Hampshire, England.....	1884
HARTERT, ERNST, Zoölogical Museum, Tring, England.....	1891
HARTING, JAMES EDMUND, Linnean Society, Burlington House, Piccadilly, London.....	1883
HARVIE-BROWN, JOHN A., Dunipace House, Larbert, Stirlingshire, Scotland.....	1883
HAYEK, DR. GUSTAV VON, Vienna.....	1884
HENSON, HARRY V., Yokohama.....	1888
HOLUB, DR. EMIL, Vienna.....	1884
KNUDSON, VALDEMAR, Kauai, Hawaiian Ids.....	1888
KRUKENBERG, DR. E. F. W., Würzburg, Germany.....	1884
KRÜPER, DR. THEOBALD J., University Museum, Athens, Greece....	1884
LAYARD, E. L., H. B. M. Consul, Noumea, New Caledonia.....	1884
LEGGE, WILLIAM V., Cullenswood House, St. Mary's, Tasmania....	1891
LEVERKÜHN, PAUL, Munich.....	1890
LYTTLETON, THOMAS, Lord LILFORD, Lilford Hall, Oundle, England.	1889
MACFARLANE, ROBERT, Winnipeg, Manitoba.....	1886
MADARÁSZ, DR. JULIUS VON, National Museum, Budapest, Hungary.	1884
MALMGREN, DR. A. J., University, Helsingfors, Finland.....	1884
MENZBIER, DR. M., Moscow.....	1884
MEYER, DR. A. B., Königl. Zool. Museum, Dresden.....	1884
MIDDENDORF, DR. A. VON, Dorpat, Russia.....	1884
MOJSISOVICS, DR. A. VON, Gratz, Austria.....	1884
NAMIYE, M., Tokio.....	1886
NICHOLSON, FRANK, 62 Fountain St., Manchester, England.....	1884
OATES, E. W., 6 Tenterden St., Hanover Sq., London.....	1884
OUSTALET, DR. EMILE, Jardin des Plantes, 55 Rue de Buffon, Paris.	1888
PALMÉN, Prof. J. A., Helsingfors, Finland.....	1883
PHILIPPI, DR. R. A., Santiago, Chili.....	1884
RADDE, DR. GUSTAV FERDINAND, Tiflis, Russia.....	1884
RAMSEY, E. P., Sydney, New South Wales.....	1884
RINGER, FREDERIC, Nagasaki, Japan.....	1888
SCHALOW, DR. HERMAN, 28 Paul Str., N. W., Berlin.....	1884
SCHRENCK, DR. LEOPOLD VON, St. Petersburg.....	1884
SELYS-LONGSCHAMPS, BARON EDMOND DE, Liége, Belgium.....	1884
SHELLEY, Capt. G. E., 6 Tenterden St., Hanover Sq., London.....	1884
THEEL, DR. HJALMAR, University of Upsala, Upsala, Sweden.....	1884
TRISTRAM, Rev. Canon H. B., The College, Durham, England.....	1884
TSCHUSI ZU SCHMIDHOFFEN, Count VICTOR RITTER VON, Hallein, (Villa Hännenhof), Salzburg, Austria.....	1884
WATERHOUSE, F. H., 3 Hanover Square, London, W.....	1889
WHARTON, HENRY T., 39 St. George's Road, Kilburn, London, N. W.	1884
ZELEDON, DON JOSÉ C., San José, Costa Rica.....	1884

## ASSOCIATE MEMBERS.

ADAMS, C. F., Champaign, Ill.....	1890
ADAMS, STEPHEN J., Cornish, Me.....	1892
ADNEY, E. T., 189 West 136th St., New York City.....	1885
ALLEN, DR. CHARLES SLOVER, 21 East 28th St., New York City....	1888
ALLEN, FRANCIS H., West Roxbury, Mass.....	1888
AMERY, CHARLES F., 123 Bible House, New York City.....	1886
ANTHONY, A. W., 2042 Albatross St., San Diego, Cala.....	1885
ARCHER, W. C., 252 7th St., Jersey City, N. J.....	1888
ATKINS, J. W., Key West, Florida.....	1887
ATTWATER, H. P., Rockport, Texas.....	1891
AVERILL, C. K., Jr., Bridgeport, Conn.....	1885
AVERY, DR. WILLIAM C., Greensboro, Ala.....	1887
AYER, ED. E., cor. Dearborn and Adams Sts., Chicago, Ill.....	1889
BABBITT, JAMES P., Taunton, Mass.....	1891
BACON, CARRINGTON C., Nashville, Tenn.....	1890
BACON, SAMUEL E., JR., 2d National Bank, Erie, Pa.....	1891
BAGG, EGBERT, 187 Genesee St., Utica, N. Y.....	1883
BALL, CARLETON R., Little Rock, Iowa.....	1891
BAILEY, VERNON, Elk River, Minn.....	1887
BAILY, CHARLES E., Malden, Mass.....	1890
BAILY, WILLIAM L., 138 South 4th St., Philadelphia, Pa.....	1885
BANGS, EDWARD APPLETON, 31 Pemberton Sq., Boston, Mass.....	1884
BANGS, OUTRAM, 31 Pemberton Sq., Boston, Mass.....	1884
BANKS, J. W., St. John, N. B.....	1887
BARBOUR, E. H., Lincoln, Nebraska.....	1892
BARNARD, JOB, 500 5th St., N. W., Washington, D. C.....	1886
BARNES, HON. R. M., Lacon, Ill.....	1889
BARNEY, EVERETT H., Springfield, Mass.....	1891
BARRE, WILL DE LA, 1301 7th St., Minneapolis, Minn.....	1891
BASKETT, J. N., Mexico, Mo.....	1892
BAUR, DR. G., Univ. of Chicago, Chicago, Ills.....	1892
BEAL, F. E. L., 1414 Corcoran St., Washington, D. C.....	1887
BEAN, J. BELLFIELD, Nicollet, Minn.....	1892
BEARD, DANIEL C., 110 Fifth Ave., New York City.....	1887
BEHR, EDWARD A., 428 Henry St., Brooklyn, N. Y.....	1892
BELL, JAMES P. H., Gainesville, Fla.....	1889
BELLOWS, ED. D., 215½ 4th St., Jersey City, N. J.....	1889
BENNER, FRANKLIN, 110 2d St., North Minneapolis, Minn.....	1883
BENNERS, GEO. B., 122 Walnut St., Philadelphia, Pa.....	1889
BENSON, Lieut. H. C., U. S. A., The Presidio, San Francisco, Cala..	1886
BENT, ARTHUR CLEVELAND, Plymouth, Mass.....	1889
BERTOLD, DR. W. H., 56 Allen St., Buffalo, N. Y.....	1889
BERIER, DELAGNEL, Bay Ridge, Kings Co., N. Y.....	1885
BILL, CHARLES, Springfield, Mass.....	1889
BISHOP, DR. LOUIS B., 77 Whitney Ave, New Haven, Conn.....	1885

*Associate Members.*

xv

BOARDMAN, GEORGE A., Calais, Maine.....	1883
BOGERT, M. T., Flushing, Queens Co., N. Y.....	1889
BOIES, A. H., Hudson, Mich.....	1890
BOLLES, FRANK, Harvard College, Cambridge, Mass.....	1889
BOND, FRANK, Cheyenne, Wyoming.....	1887
BOND, HARRY L., Sioux City, Iowa.....	1890
BOWDISH, B. S., Tallapoosa, Ga.....	1890
BOWLES, J. H., Ponkapog, Mass.....	1891
BRADFORD, L. M. B., Providence, R. I.....	1889
BRANDRETH, FRANKLIN, Sing Sing, N. Y.....	1889
BRIMLEY, C. S., Raleigh, N. C.....	1888
BROCKUNIER, SAMUEL H., Wheeling, West Virginia.....	1889
BROOKS, EARLE A., French Creek, Upshur Co., W. Va.....	1892
BROWN, A. D., Pipestone, Minn.....	1891
BROWN, EDWARD J., 820 20th St. N. W., Washington, D. C.....	1891
BROWN, HERBERT, Tucson, Arizona.....	1885
BROWN, HUBERT H., 22 Collier St., Toronto, Ontario.....	1889
BROWN, JOHN CLIFFORD, 85 Vaughan St., Portland, Maine.....	1888
BROWN, WILMOT W., Jr., Somerville, Mass.....	1892
BROWNE, FRANCIS CHARLES, Framingham, Mass.....	1883
BULLEY, REGINALD H., Canton, Ohio.....	1889
BURNS, FRANK L., Bervyn, Chester Co., Pa.....	1891
BUTLER, AMOS W., Brookville, Ind.....	1885
CAIRNS, JOHN S., Weaverville, N. C.....	1889
CAMPBELL, HARVEY C., Lansingburg, Rens. Co., N. Y.....	1890
CARRUTH, CHARLES THEODORE, 119 Milk St., Boston,.....	1891
CASE, CLIFFORD M., 54 Babcock St., Hartford, Conn.....	1892
CAULK, WM. B., Terre Haute, Ind.....	1891
CHAMBERLAIN, C. W., 51 Lincoln St., Boston, Mass.....	1885
CHASE, VIRGINIUS H., Wady Petra, Ills.....	1892
CHERRIE, GEORGE K., Museo Nacional, San José, Costa Rica.....	1891
CHURCHILL, GEORGE B., 912 Spruce St., Philadelphia, Pa.....	1890
CLARK, HUBERT LYMAN, 3922 5th Ave., Pittsburgh, Pa.....	1886
CLARK, J. N., Saybrook, Conn.....	1885
CLARKE, Prof. S. F., Williamstown, Mass.....	1890
CLUTE, WILLARD N., 11 Jarvis St., Binghamton, N. Y.....	1889
COALE, H. K., 131 Wabash Ave., Chicago, Ill.....	1883
COBB, MISS JULIAETTE J., West Brookfield, Mass.....	1892
COLBURN, A. E., 738 Broadway, New York City.....	1891
COLBURN, W. W., Springfield, Mass.....	1889
COLLINS, Capt. J. W., Smiths. Inst., Washington, D. C.....	1888
COLT, WILLIAM C., 59 Pleasant St., Worcester, Mass.....	1892
COMEAU, NAPOLEON A., Godbout, P. Q.....	1885
CONKLIN, CHARLES E., Roslyn, N. Y.....	1892
CONKLIN, Dr. WILLIAM A., 10th Ave. cor. 187th St., New York City.....	1885
COOK, Prof. CHARLES B., Agricultural College P. O., Mich.....	1890
COOMBS, FRANK E., Natick, Mass.....	1890

COPE, ALBAN, Germantown, Pa.....	1885
COPE, FRANCIS R., Jr., Germantown, Pa.....	1892
COPELAND, A. M., Springfield, Mass.....	1889
CORNING, ERASTUS, Jr., Albany, N. Y. ....	1891
COUES, ELLIOTT BAIRD, care of Dr. E. Coues, Smiths. Inst., Wash- ington, D. C.....	1886
COUES, WILLIAM PEARCE, 14 Ash St., Cambridge, Mass.....	1888
CRAMPTON, H. E., Jr., 256 W. 121st St., New York City .....	1891
CRANDALL, C. W., Woodside, Queen's Co., N. Y. ....	1891
CULYER, Col. JOHN Y., Room 150, Potter Building, New York City.....	1890
DAENZER, CARL, 13 North 3d St., St. Louis, Mo.....	1888
DAFFIN, W. H., 938 Silver St., Philadelphia, Pa.....	1892
DAGGETT, FRANK S., Duluth, Minn.....	1889
DANA, ROY, Warren, Ohio.....	1889
DAVIS, GEORGE A., Mexico, N. Y.....	1890
DAVISON, J. L., Lockport, Niagara Co., N. Y.....	1885
DELAFIELD, JOSEPH L., 475 5th Ave., New York City.....	1888
DENNE, DAVID, 104 St. Francois St., Montreal.....	1890
DETWILLER, Dr. JNO. W., Bethlehem, Pa.....	1891
DEWEY, MARGARET, 108 Pearl St., Springfield, Mass.....	1892
DICKINSON, EDWIN, Springfield, Mass.....	1885
DICKINSON, W. S., Tarpon Springs, Fla. ....	1891
DILLE, FREDERIC M., 806 Boston Bldg., Denver, Colo.....	1892
DIXON, FREDERIC J., Hackensack, N. J. ....	1891
DOUGHERTY, CAPT. W. E., U. S. A., Angel Island, Cala. ....	1890
DOUGLASS, BERT H., Burlington, Kansas .....	1890
DUNBAR, W. LINFRED, Public Library, Bridgeport, Conn.....	1892
DURFEE, OWEN, Box 125, Fall River, Mass. ....	1887
DUTCHER, B. H., 525 Manhattan Ave., New York City.....	1886
DYCHE, Prof. L. L., Lawrence, Kansas.....	1886
EAMES, Dr. EDWIN H., Bridgeport, Conn. ....	1888
EASTMAN, HARRY D., Framingham, Mass. ....	1891
EATON, ALVAH A., Riverdale, Cala.....	1890
EDDY, N. A., 615 North Grant St., Bay City, Michigan.....	1885
EDGAR, NEWBOLD, 28 E. 39th St., New York City .....	1891
EDSON, JOHN M., New Whatcom, Washington.....	1886
ELDON, CHARLES H., Williamsport, Pa. ....	1891
ELROD, Prof. M. J., Illinois Wesleyan Univ., Bloomington, Ills.....	1892
EMERSON, W. OTTO, Haywards, Cala.....	1885
EVANS, EVAN M., Englewood, N. J.....	1888
EVANS, SAMUEL C., JR., Riverside, Cala. ....	1889
EVERMANN, Prof. BARTON W., U. S. Fish Commission, Washington, D. C.....	1883
FAIRBANKS, Hon. FRANKLIN, St. Johnsbury, Vt.....	1885
FANNIN, JOHN, Provincial Museum, Victoria, B. C.....	1888
FARLEY, JOHN A., Newton, Mass.....	1892
FAXON, WALTER, Mus. Comp. Zoöl., Cambridge, Mass.....	1891



FERNALD, ROBERT H., Orono, Me.....	1890
FIGGINS, J. D., Kensington, Md.....	1889
FISHER, WILLARD J., Medway, Mass.....	1892
FISHER, WILLIAM HUBBELL, 12 Wiggins Block, Cincinnati, Ohio....	1883
FLINT, H. W., Yale National Bank, New Haven, Conn.....	1888
FLINT, WILLIAM R., Madera, Fresno Co., Cala.....	1890
FLOYD, HARRY WEBB, 164 S. Elliott Place, Brooklyn, N. Y.....	1892
FORBUSH, EDWARD H., Malden, Mass.....	1887
FOWLER, Capt. J. L., 2d Calvary U. S. A., Fort Bowie, Ariz.....	1892
FOX, DR. WILLIAM. H., 1826 Jefferson Place, Washington, D. C.....	1883
FUERTES, LOUIS AGASSIZ, Ithaca, N. Y. ....	1891
GALE, DENIS, Gold Hill, Boulder Co., Colorado.....	1886
GAULT, B. T., Glen Ellyn, DuPage Co., Ill.....	1885
GESNER, Rev. A. H., Sing Sing, N. Y.....	1885
GIBSON, LANGDON, Flushing, N. Y. ....	1887
GILBERT, CARLETON, 1155 Grenshaw St., Chicago, Ill.....	1889
GILBERT, CHARLES H., Palo Alto, Cala.....	1892
GOODALE, JOSEPH LINCOLN, 67 Sparks St., Cambridge, Mass.....	1885
GORDON, THEODORE, Savannah, Ga.....	1891
GOSS, B. F., Pewaukee, Waukesha Co., Wis.....	1883
GOULD, JOSEPH E., 281½ North High St., Columbus, Ohio.....	1889
GRANGER, WALTER W., Am. Mus. Nat. Hist., New York City.....	1891
GRANT, JNO. B., 233 Madison Ave., New York City.....	1890
GREEN, MORRIS M., 410 Graves St., Syracuse, N. Y.....	1886
GREENE, I. C., Amherst, Mass.....	1891
GREGG, DR. WILLIAM H., 143 West 21st St., New York City.....	1883
HALES, HENRY, Ridgewood, N. J.....	1890
HAMFELDT, A., Ottawa, Ills.....	1892
HANMER, C. C., Burnside, Conn.....	1888
HARGITT, CHARLES W., 904 E. Genesee St., Syracuse, N. Y.....	1892
HARDY, MANLY, Brewer, Maine.....	1883
HARTE, CHARLES R., Columbia College, New York City.....	1890
HARTZELL, Prof. JAMES C., JR., Orangeburg, S. C. ....	1892
HASBROUCK, EDWIN M., 1303 Corcoran St., Washington, D. C.....	1887
HAWLEY, A. H., Vineland, N. J.....	1886
HAZARD, R. G., 2d, Peace Dale, R. I.....	1885
HAZZARD, DR. T. L., Alleghany, Pa.....	1891
HEDGES, CHARLES F., New Haven, Conn.....	1891
HEIMSTREET, DR. T. B., 14 Division St., Troy, N. Y.....	1888
HELME, ARTHUR H., Miller's Place, Suffolk Co., N. Y.....	1888
HENDRICKSON, W. F., 860 Broadway, New York City.....	1885
HENNING, CARL FRITZ, Boone, Iowa.....	1892
HICKS, BENJAMIN D., Old Westbury, N. Y.....	1892
HICKS, HENRY, Westbury Station, Queens Co., N. Y.....	1888
HIGGINS, HENRY C., Cincinnati, N. Y.....	1892
HINE, Mrs. JANE L., Sedan, Ind.....	1890
HITCHCOCK, FRANK HENRY, Dept. of Agriculture, Washington, D.C.	1891

HOADLEY, Dr. FREDERIC H., 9 W. 30th St., New York City.....	1891
HOAG, BENJAMIN, Stephentown, N. Y.....	1892
HOLBROOK, Judge S. T., Norwich, Conn.....	1885
HOOPES, JOSIAH, West Chester, Pa.....	1889
HORNADAY, W. T., 42 Niagara St., Buffalo, N. Y.....	1888
HOUGH, ROMEYN B., Lowville, N. Y.....	1883
HOWELL, ARTHUR H., 212 Madison St., Brooklyn, N. Y.....	1889
HOYLE, CHARLES E., West Millbury, Mass.....	1889
HOYT, F. R., Watkins, N. Y.....	1891
HOYT, WILLIAM H., Stamford, Conn.....	1888
HOWE, C. P., Waukesha, Wis.....	1891
HUBBARD, Mrs. SARA A., 39 33rd St., Chicago, Ill.....	1891
HUGHES, Dr. WILLIAM E., 3726 Baring St., Philadelphia, Pa.....	1891
HULL, WALTER B., Box 47, Milwaukee, Wis.....	1889
HURD, THEODORE D., Riverside, Cala.....	1890
HVOSLEF, Dr. J. C., Lanesboro, Minn.....	1885
HYATT, Miss MARY, Stanfordville, N. Y.....	1891
INGALLS, CHARLES E., East Templeton, Mass.....	1885
INGERSOLL, ALBERT M., 816 5th St., San Diego, Cala.....	1885
INGRAHAM, D. P., Elmira, N. Y.....	1889
ISHAM, C. B., Am. Mus. Nat. Hist., New York City.....	1891
JACKSON, THOMAS H., West Chester, Pa.....	1888
JACOBS, J. WARREN, Waynesburg, Pa.....	1889
JAMES, HOWARD K., Rockville, Conn.....	1888
JEFFRIES, WILLIAM AUGUSTUS, 78 Devonshire St., Boston, Mass.....	1883
JENKS, Prof. J. W. P., 62 George St., Providence, R. I.....	1888
JESURUN, Dr. MORTIMER, Douglas, Wyoming.....	1890
JOHNSON, ALBERT I., Hull, Iowa.....	1885
JOHNSON, FRANK E., Parkville, Kings Co., N. Y.....	1888
JOHNSON, FREDERIC O., Los Angeles, Cala.....	1888
JOHNSTON, Dr. A. D., Allegheny City, Pa.....	1891
JONES, LYNDS, Oberlin, Ohio.....	1888
JONES, Prof. MARCUS E., Salt Lake City, Utah.....	1890
JORDAN, A. H. B., Willsborough, Essex Co., N. Y.....	1888
JORDAN, DAVID STARR, Leland Stanford, Jr., Univ., Menlo Park, Cala.....	1885
JOUY, P. L., Smiths. Inst., Washington, D. C.....	1883
KEELER, CHARLES A., Berkeley, Alameda Co., Cala.....	1889
KELLER, CLYDE L., 318 Exchg. Blk., Salem, Oregon.....	1892
KELLOGG, VERNON L., Lawrence, Kansas.....	1888
KENDALL, W. C., U. S. Fish Commission, Washington, D. C.....	1889
KENNARD, FREDERIC HEDGE, Brookline, Mass.....	1892
KEYSER, LEANDER S., Springfield, Ohio.....	1891
KING, GEORGE GORDON, Newport, R. I.....	1888
KIRKPATRICK, H. C., Meadville, Pa.....	1891
KIRKWOOD, F. C., 115 Concord St., Baltimore, Md.....	1892
KNOWLTON, F. H., U. S. Nat. Mus., Washington, D. C.....	1883

KOCH, Prof. AUGUST, Williamsport, Pa.....	1891
KOCH, FREDERIC W., Twin Oaks, San Diego Co., Cala.....	1891
KOHN, GUSTAVE, 14 Carondelet St., New Orleans, La.....	1886
KOUMLY, Rev. PIRMINÉ M., Seneca, Kas.....	1892
LADD, SAMUEL B., West Chester, Pa.....	1889
LAMB, Prof. ELI M., Friends' High School, Baltimore, Md.....	1891
LANGDON, EDWIN, Central National Bank, New York City.....	1891
LANO, ALBERT, Madison, Minn.....	1890
LANTZ, Prof. D. E., Manhattan, Kansas.....	1885
LAWRENCE, ROBERT B., Mills Building, New York City.....	1883
LAWRENCE, ROBERT HOE, Duarte, Cala.....	1890
LEVINGS, GLENN V. B., 117 W. 58th St., New York City.....	1892
LEWIS, E. G., Hartford, Conn.....	1888
LEWIS, WILLIAM H., Pawtucket, R. I.....	1890
LEWIS, JOHN B., Eubanks, Pulaski Co., Ky.....	1890
LINSKILL, DAVID J., Plymouth, Pa.....	1891
LOYD, WILLIAM, Brownsville, Texas.....	1885
LOCKWOOD, Dr. SAMUEL, Freehold, N. J.....	1890
LONG, H. B., Lake View, Mass.....	1889
LOOMIS, JOHN A., Paint Rock, Concho Co., Texas.....	1887
LORING, J. ALDEN, Owego, N. Y.....	1889
MACDOUGALL, GEO. R., 88 Wall St., New York City.....	1890
MACGILLIVRAY, ALEXANDER D., Cornell Univ., Ithaca, N. Y.....	1890
MACKAY, Prof. A. H., Halifax, Nova Scotia.....	1885
MACKAY, GEORGE H., Nantucket, Mass.....	1890
MACOUN, Prof. JOHN, Geol. and Nat. Hist. Surv., Ottawa, Ontario.....	1883
MARCY, Prof. OLIVER, Evanston, Ills.....	1892
McCORMACK, F. W., Leighton, Ala.....	1891
McGREGOR, R. C., 2847 Champa St., Denver, Col.....	1889
MAITLAND, ROBERT L., 70 Broad St., New York City.....	1889
MALI, CHARLES M., 329 Broadway, New York City.....	1889
MARSHALL, ALFRED, 59 South Canal St., Chicago, Ills.....	1886
MASON, EDWARD CAMPBELL, 377 Main St. Buffalo, N. Y.....	1888
MELZER, JAMES P., Milford, N. H.....	1891
MERRIAM, FLORENCE A., Locust Grove, Lewis Co., N. Y.....	1885
MERRILL, HARRY, Bangor, Maine.....	1883
METCALFE, WILLIAM C., 21 Cortlandt St., New York City.....	1886
MILLER, GERRIT SMITH, JR., 120 Brattle St., Cambridge, Mass.....	1886
MILLER, Mrs. OLIVE THORNE, 244 Macon St., Brooklyn, N. Y.....	1887
MONTGOMERY, THOMAS H., JR., West Chester, Pa.....	1891
MOORE, J. PERCY, 3740 Powelton Ave., Philadelphia, Pa.....	1886
MOORE, Dr. H. D., New Lexington, Pa.....	1891
MORCOM, G. FREAN, 870 North Park Ave., Chicago, Ill.....	1886
MORRIS, GEORGE SPENCER, Olney, Philadelphia, Pa.....	1887
MORRIS, ROBERT O., Springfield, Mass.....	1888
MORRISON, GEORGE A., Fox Lake, Wis.....	1891
MORTIMER, BENJAMIN, 348 Lafayette Ave., Brooklyn, N. Y.....	1888

MURDOCH, JOHN, Middleboro, Mass.....	1883
NACHTRIEB, HENRY F., Univ. of Minn., Minneapolis, Minn.....	1892
NASH, H. W., Pueblo, Colorado.....	1892
NICHOLAS, DR. GEORGE L., North Brother Island, New York City....	1888
NICHOLS, HOWARD GARDNER, Newton, Mass.....	1892
NICHOLS, J. M., Greene, Maine.....	1890
NORRIS, J. PARKER, 723 Walnut St., Philadelphia, Pa.....	1886
NORTON, ARTHUR H., Westbrook, Maine.....	1890
NORTON, RICHARD, Cambridge, Mass.....	1888
OBERHOLSER, HARRY C., Wooster, Ohio.....	1888
OLDFIELD, W. A., Port Sanilac, Mich.....	1891
OLDRIGHT, CHARLES D., Austin, Texas.....	1890
ONG, PLUMMER L., Milan, Sullivan Co., Mo.....	1888
ORTH, GEORGE S., 406 S. Highland Ave., Pittsburgh, Pa.....	1892
OSBORN, REV. WILLIAM, Golden, Col.....	1890
PAINÉ, AUGUSTUS G., Jr., Room 60, Times Bldg., New York City....	1886
PALMER, E. L., New Haven, Conn.....	1891
PALMER, THEODORE S., Dept. of Agriculture, Washington, D. C....	1888
PALMER, WM., U. S. Nat. Mus., Washington, D. C.....	1888
PANNEPACKER, D. E., 2550 North 12th St., Philadelphia, Pa.....	1888
PARK, AUSTIN F., 31 Boardman Building, Troy, N. Y.....	1885
PARK, J. T., Warner, Tenn.....	1890
PEABODY, REV. P. B., Owatonna, Minn.....	1891
PEABODY, WILLIAM RODMAN, Cambridge, Mass.....	1890
PEACOCK, W. F., Marysville, Cala.....	1888
PEARSON, T. GILBERT, Archer, Fla.....	1891
PENNOCK, C. J., Kennett Sq., Chester Co., Pa.....	1888
PERKINS, CHARLES E., Hartford, Conn.....	1888
PERNOT, E. A., Corvallis, Oregon.....	1891
PETERSON, J. P., Luck, Wis.....	1885
PHILLIPS, A. H., 77 Biological Laboratory, Princeton, N. J.....	1891
PIERCE, A. K., Renovo, Pa.....	1891
PIERS, HARRY, Willow Park, Halifax, N. S.....	1891
PLEASANTS, J. H., Jr., 606 Cathedral St., Baltimore, Md.....	1888
POPENOE, Prof. E. A., Manhattan, Kan.....	1886
POSSON, NEIL F., Medina, N. Y.....	1890
PRAEGER, WILLIAM E., Keokuk, Iowa.....	1892
PRATT, W. E., Lake Forest, Ill.....	1890
PREBLE, EDWARD A., Dept. of Agriculture, Washington, D. C.....	1892
PRENTISS, D. W., JR., Washington, D. C.....	1890
PRILL, DR. A. G., Sodaville, Oregon.....	1890
PRIME, REV. WENDELL, 38 Park Row, New York City.....	1889
RAGSDALE, G. H., Gainesville, Texas.....	1885
RAINE, WALTER, 181 Bleeker St., Toronto, Ontario.....	1889
RALPH, DR. W. L., 26 Court St., Utica, N. Y.....	1888
RAUB, DR. M. W., Lancaster, Pa.....	1890
RATHBUN, FRANK R., 40 Franklin St., Auburn, N. Y.....	1883

RAWSON, CALVIN L., Norwich, Conn.....	1885
REDINGTON, ALFRED P., 23 Second St., San Francisco, Cal.....	1890
REED, CHARLES K., Worcester, Mass.....	1890
REED, J. HARRIS, Beverly, N. J.....	1890
REISER, Rev. F., Marysville, Cal.....	1892
RHOADS, SAMUEL N., Haddonfield, N. J.....	1885
RICE, FRANK L., 47 S Canal St., Chicago, Ills.....	1886
RICHARDS, JOHN BION, 8 Barnaby St., Fall River, Mass.....	1888
RICHARDSON, JENNESS, Am. Mus. Nat. Hist., New York City.....	1888
RICHARDSON, W. M., Am. Mus. Nat. Hist., New York City.....	1891
RICHMOND, CHARLES W., Bluefields, Nicaragua.....	1888
RIDGWAY, JOHN L., U. S. Geol. Surv., Washington, D. C.....	1890
RIECKER, ERNST, 900 South 4th St., St. Louis, Mo.....	1888
RIKER, C. B., South Orange, N. J.....	1885
RILEY, Prof. C. V., U. S. Entomologist, Washington, D. C.....	1885
RIVES, Dr. WILLIAM C., 113 East 38th St., New York City.....	1885
ROBBINS, WILLIAM A., 178 Garfield Place, Brooklyn, N. Y.....	1888
ROBERTS, GEORGE W., West Chester, Pa.....	1891
ROBERTS, W. F., 1421 G St., N. W., Washington, D. C.....	1888
RODDY, Prof. H. JUSTIN, Millersville, Pa.....	1891
ROOSEVELT, Hon. THEODORE, Oyster Bay, Queens Co., N. Y.....	1888
ROWLAND, THOMAS, 182 6th Ave., New York City.....	1890
ROWLEY, J., JR., Am. Mus. Nat. Hist., New York City.....	1889
RUSSELL, GEORGE C., 144 West 7th St., Erie, Pa.....	1888
RUSSELL, ROY, Kokomo, Indiana.....	1891
SAGE, HENRY M., Albany, N. Y.....	1885
SARGENT, HARRY B., Niagara Falls, N. Y.....	1892
SCHLEGEL, MATILDE, East Aurora, N. Y.....	1889
SCHURR, THEODORE A., Pittsfield, Mass.....	1888
SCHWAB, Rev. L. H., 101 Lawrence St., New York City.....	1892
SCOTT, W. L., 74 Sparks St., Ottawa, Ontario.....	1883
SCROGGS, Dr. G. A., Beaver, Pa.....	1891
SEE, ABRAM W., Arlington, N. J.....	1888
SEITER, PHILIP J., Bridgeport, Ala.....	1888
SHEPPARD, EDWIN, Acad. Nat. Sci., Philadelphia, Pa.....	1892
SHERATT, W. J., 263 North 2d St., Philadelphia, Pa.....	1891
SHORES, Dr. E. I., Soldiers' Home, Hampton, Va.....	1883
SHORT, ERNEST H., Chili, N. Y.....	1891
SLADE, JOHN A., 1134 Herkimer St., Brooklyn, N. Y.....	1888
SMALL, FREDERIC L., Provincetown, Mass.....	1891
SMITH, CLARENCE A., 30 W. Bijou St., Colorado Springs, Col.....	1889
SMITH, HORACE G., JR., 2918 Lafayette St., Denver, Col.....	1888
SMITH, Dr. HUGH M., 1248 New Jersey Ave., Washington, D. C.....	1886
SMITH, JAMES E., East Killingly, Conn.....	1889
SMITH, LUTHER H., Box 132, Pittsburgh, Pa.....	1891
SMITH, PHILO W., JR., Mona House, St. Louis, Mo.....	1890
SMITH, S. SIDNEY, 59 Wall St., New York City.....	1888

SMYTH, ELLISON A., JR., Va. Agr. and Mech. Coll., Blacksburg, Va.	1892
SORNBORGER, JEWELL D., Cambridge, Mass.	1888
SOUTHWICK, E. B., Arsenal Bldg., Central Park, New York City	1888
SOUTHWICK, WILLIAM C., Raritan, N. J.	1891
SPELMAN, HENRY MUNSON, 62 Sparks St., Cambridge, Mass.	1883
SPRAGUE, JOHN C., 38 Wall St., New York City	1891
STANTON, Prof. J. Y., Bates College, Lewiston, Me.	1883
STEERE, Prof. J. B., Ann Arbor, Mich.	1890
STEPHENS, F., Santa Ysabel, San Diego Co., Cala.	1883
STOEY, W. W., Harrisburg, Pa.	1891
STONE, D. D., Lansing, N. Y.	1891
STREATOR, CLARK P., Garrettsville, O.	1889
STRODE, Dr. W. S., Lewistown, Ill.	1889
STRONG, REUBEN M., Wauwatosa, Wis.	1889
STUDER, JACOB H., P. O. Box 2417, New York City	1888
SURBER, THADDEUS, White Sulphur Springs, West Va.	1890
SWALLOW, C. W., Willsburgh, Multuoma Co., Oregon	1890
SWINBURNE, JOHN, Guernsey, England	1887
TALBOT, D. H., Sioux City, Iowa	1885
TATLOCK, JOHN, JR., Mutual Life Ins. Co., New York City	1887
TAYLOR, ALEXANDER O'DRISCOLL, 124 Bellevue Ave., Newport, R. I.	1888
TAYLOR, TRUMAN R., 90 William St., Rochester, N. Y.	1892
TEST, F. C., U. S. Nat. Mus., Washington, D. C.	1892
THOMPSON, ERNEST E., 86 Howard St., Toronto, Ontario	1883
THOMPSON, FRANK J., Zoölogical Garden, Philadelphia, Pa.	1885
THOMSON, Prof. GEORGE S., Boulder, Colo.	1892
THORNE, Capt. PLATTE M., 22d Inf. U. S. A., Ft. Keogh, Montana	1885
THURBER, E. CARLETON, Alhambra, Cala.	1886
TODD, LOUIS M., Calais, Me.	1887
TODD, W. E. CLYDE, Dept. Agriculture, Washington, D. C.	1890
TOPPAN, GEORGE L., 138 Jackson St., Chicago, Ill.	1886
TORREY, BRADFORD, Wellesley Hills, Mass.	1883
TORTAT, W. R. M., Atchison, Kansas	1890
TOWNSEND, C. H., Smiths. Inst., Washington, D. C.	1883
TREAT, WILLARD E., East Hartford, Conn.	1885
TREICHLER, Dr. A. C., Elizabethtown, Pa.	1891
TROMBLEY, JEROME, Petersburg, Mich.	1885
TROTTER, Dr. SPENCER, Swarthmore College, Swarthmore, Pa.	1888
TUTTLE, Dr. CARL, Berlin Heights, O.	1890
VAN CORTLANDT, Miss ANNE S., Croton-on-Hudson, N. Y.	1885
VAN RIPER, PAUL, Niles, Mich.	1891
VELIE, Dr. J. W., Academy of Sciences, Chicago, Ill.	1886
VERRILL, Prof. ALPHEUS H., 86 Whaley Ave., New Haven, Conn.	1888
VILARO, Dr. JUAN, Havana Univ., Havana, Cuba	1888
VOORHEES, CLARK G., 59 East 75th St., New York City	1888
WAKEFIELD, J. R., Dedham, Mass.	1885
WALKER, Dr. R. L., Mansfield Valley, Pa.	1888

WARREN, DR. B. H., West Chester, Pa.....	1885
WARREN, O. B., Palmer, Mich.....	1892
WEBSTER, FREDERIC S., 14 E. 42d St., New York City.....	1886
WEBB, WALTER F., Geneva, N. Y.....	1891
WEST, LEWIS H., Roslyn, Queens Co., N. Y.....	1887
WEST, SAMUEL H., 76 Devoe St., Brooklyn, N. Y.....	1889
WHEELER, DAVID E., cor. Park Ave. and 71st St., New York City.....	1888
WHITE, FRANCIS BEACH, Cambridge, Mass.....	1891
WHITE, HARRY GORDON, 39 Union St., Taunton, Mass.....	1889
WHITE, STEWART E., Grand Rapids, Mich.....	1890
WHITNEY, Prof. E. R., Binghamton, N. Y.....	1891
WHOLEY, W. N., Johns Hopkins Univ., Baltimore, Md.....	1891
WICKHAM, H. H., Beaver, Pa.....	1890
WICKS, M. L., JR., Los Angeles, Cal.....	1890
WILLIAMS, J. B., 171 Johns St., Toronto, Ontario.....	1889
WILLIAMS, ROBERT S., Columbia Falls, Montana.....	1888
WINTLE, ERNEST D., 11 Hospital St., Montreal.....	1887
WOOD, A. H., Painted Post, N. Y.....	1887
WOODCOCK, Rev. C. E., Ansonia, Conn.....	1891
WOODMAN, EDMUND J., Denver, Colo.....	1890
WOODRUFF, LEWIS B., 14 East 68th St., New York City.....	1886
WORTHEN, CHARLES K., Warsaw, Ill.....	1891
WORTHINGTON, WILLIS W., Shelter Island, Suffolk Co., N. Y.....	1889
WYE, SAMUEL A., Ocosta, Washington.....	1891
YORKE, DR. F. HENRY, Hallock, Minn.....	1891
YOUNG, CURTIS CLAY, 63 Greene Ave., Brooklyn, N. Y.....	1891
ZEREGA, DR. LOUIS A., Barrett House, New York City.....	1883

## DECEASED MEMBERS.

## ACTIVE MEMBERS.

*Date of Death*

BAIRD, SPENCER FULLERTON .....	Aug. 19, 1887
GOSS, N. S.....	March 10, 1891
HOLDER, JOSEPH B.....	Feb. 28, 1888
JEFFRIES, JOHN AMORY.....	March 26, 1892
WHEATON, JOHN M.....	Jan. 28, 1887

## HONORARY MEMBERS.

BURMEISTER, HERMANN.....	May 1, 1892
GURNEY, JOHN HENRY.....	April 20, 1890
KRAUS, FERDINAND.....	Sept. 15, 1890
PARKER, WILLIAM KITCHEN.....	July 3, 1890
PELZELN, AUGUST VON.....	Sept. 2, 1891
SCHLEGEL, HERMANN .....	Jan. 17, 1884
TACZANOWSKI, LADISLAS.....	Jan. 17, 1890

## CORRESPONDING MEMBERS.

BLAKISTON, THOMAS W.....	Oct. 15, 1891
BOGDANOW, MODEST N.....	March 4, 1888
HAAST, JULIUS VON.....	Aug. 15, 1887
HOMeyer, E. F. VON.....	May 31, 1889
MARSCHALL, A. F.....	Oct. 11, 1887
PREJEVALSKI, N. M.....	Oct. 20, 1887
PRYER, HARRY JAMES STOVIN.....	Feb. 17, 1888
SEVERTZOW, N.....	Feb. 8, 1885
STEVENSON, HENRY.....	Aug. 18, 1888

## ASSOCIATE MEMBERS.

ATKINS, H. A.....	May 19, 1885
BECKHAM, CHARLES WICKLIFFE.....	June 8, 1888
BREESE, WILLIAM L.....	Dec. 7, 1889
COE, W. W.....	April 26, 1885
ELLIOTT, S. LOWELL.....	Feb. 11, 1889
HOWLAND, JOHN SNOWDON.....	Sept. 19, 1885
KUMLIEN, THURE.....	Aug. 5, 1888
LINDEN, CHARLES.....	Feb. 3, 1888
MABBETT, GIDEON.....	Aug. 15, 1890
MINOT, HENRY DAVIS.....	Nov. 13, 1890
NORTHROP, JOHN I.....	June 26, 1891
SMALL, EDGAR A.....	April 24, 1884
VENNOR, H. G.....	June 8, 1884
WILLARD, SAMUEL WELLS.....	May 24, 1887
WOOD, WILLIAM.....	Aug. 9, 1885

*N. B.—Members of the Union and Subscribers to 'The Auk' are requested to promptly notify the publisher of 'The Auk' of any change of address.*