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DEPARTMENT OF COMMERCE

BUREAU OF FISHERIES

HUGH M. SMITH, Commissioner

AN ANALYTICAL SUBJECT BIBLIOGRAPHY OF THE
PUBLICATIONS OF THE BUREAU OF FISHERIES
1871-1920

By ROSE M. E. MACDONALD

Librarian, U. S. Bureau of Fisheries

APPENDIX V TO THE REPORT OF THE U. S. COMMISSIONER
OF FISHERIES FOR 1920



Bureau of Fisheries Document No. 899

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1871-1920

LETTER OF TRANSMITTAL.

DEPARTMENT OF COMMERCE,
BUREAU OF FISHERIES,
Washington, June 15, 1920.

Hon. HUGH M. SMITH,
Commissioner of Fisheries.

DEAR SIR: I have the honor to submit herewith "An Analytical Subject Bibliography of the Publications of the Bureau of Fisheries, 1871-1920," being an analysis of the reports, appendixes, special papers, bulletins, economic circulars, occasional papers, and of "The Fisheries and Fishery Industries."

Covering the investigations of the Bureau since its incipency, it shows, in a measure, the work of a number of men of no mean fame in the field of biology. Much of it was pioneer work, which modern investigators can not afford to ignore.

The work here transmitted was started in 1912, as a catalogue of the publications of the Bureau. Later it was decided to assemble these titles under subjects pertinent to the work of the Bureau.

In compiling this subject index it was found that references to many valuable results would be lost unless a meticulous analysis of the publications be made. Each paper was therefore examined searchingly, and when the discussion was found to be of sufficient detail, a title for it was made. For instance, of the 141 titles of *Food of fishes*, 87 were made from the subject contents.

It had long been realized and often stated by those cognizant of the ideals of the Bureau that there was a veritable fund of valuable information in the publications of the Bureau, which was lost because the modern investigator knew not how to find it. It is hoped that this work will prove a valuable key.

The arrangement differs from that usually employed in bibliographies, the object having been to arrange it from the viewpoint of the investigator. Into a work of such detail, the preparation of which has necessarily extended over several years, some mistakes will doubtless appear. For these I am quite willing to assume responsibility, knowing that a bibliography of such magnitude can not be perfect.

In its entirety it stands as a slight tribute to the builders of the Bureau of Fisheries and to all who have labored with them. It has been a pleasure and an inspiration to do the work, and I hope it may prove of value. I have the honor to be,

Very respectfully,

ROSE M. E. MACDONALD, *Librarian.*

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AN ANALYTICAL SUBJECT BIBLIOGRAPHY OF THE PUBLICATIONS OF THE BUREAU OF FISHERIES, 1871-1920.

By ROSE M. E. MACDONALD, *Librarian.*

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^a Analytical subject table of contents is given with each part, except in parts 3 and 6, where it is given with each section.

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EXPLANATORY NOTE.

The bibliography is composed of two styles of titles, those given just as they appear in the publications and those resulting from the analysis of each article. For the first style, cards have been printed by the Library of Congress from copy prepared in this Bureau. These cards may be purchased from the Library of Congress, the card wanted to be designated by the call number, which appears in the right-hand margin of each page. The second style, or "made titles," are designated by brackets and have no printed cards.

The arrangement under each subject is by authors listed alphabetically. The arrangement under each author is chronological.

Work or investigations covered in the annual report of the Commissioner are combined under the authorship of the United States Commissioner of Fisheries. To give the name of the Commissioner sponsoring the work would frequently destroy the chronological arrangement. For those who may care to cite the Commissioner's name the following list is given:

Baird, Spencer Fullerton, 1871-1887.

Goode, G. Brown, 1887-1888.

McDonald, Marshall, 1888-1895.

Gill, Herbert A. (acting), 1895-1896.

Brice, John J., 1896-1898.

Bowers, George M., 1898-1913.

Smith, Hugh M., 1913-

For the purpose of chronological arrangement, divisional reports are given under the authorship of the United States Bureau of Fisheries.

In analyzing reports (meaning also appendixes and special papers) and bulletins, the analysis in each case has been of the bound volume, and the date of issue given for each title is therefore that of the volume. In the majority of cases, however, the articles comprising the bound volume are first issued as separates. In all such instances, in addition to the date of issue of the volume, the date of issue of the article as a separate is given in italics. The one exception is in the treatment of the annual reports, page 7, where the date of issue of the separate only is given.

Being an analysis of publications of the Bureau of Fisheries only, which are always printed in Washington and, with few exceptions, by the Government Printing Office, the place of publication is omitted in every case, and the printer given only in the exceptions.

REPORT OF THE UNITED STATES BUREAU OF FISHERIES

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^a For "Fish-cultural stations" and "Cars" see Part 3, Section 2. For "Vessels" see Part 2.

PART 1.—UNITED STATES BUREAU OF FISHERIES.

HISTORY.

- Brice, John J.:** The work of the United States Fish commission from December 1, 1896, to November 3, 1897. Bulletin, 1897 (1898), vol. XVII, p. 135-139. *Doc.* 354 issued Feb. 4, 1898. F12-243
- Goode, George Brown:** The first decade of the United States Fish commission, its plan of work and accomplished results, scientific and economical. Report, 1880 (1883), p. 53-62. F16-23
- Ibid. Bulletin, 1881 (1883), vol. II, p. 169-178. F12-356
- Smiley, Charles Wesley:** Four tables, showing the amount of public money appropriated for carrying on the United States Commission of fisheries, and the various State commissions, from 1865 to 1882, inclusive. Bulletin, 1883 (1883), vol. III, p. 140-152. F18-122
- The organization and personnel of the United States Fish commission, June 1, 1883. Bulletin, 1883 (1883), vol. III, p. 115-116. F18-117
- Smith, Hugh M.:** The United States Bureau of fisheries, its establishment, functions, organization, operations, and achievements. 80 p., front. (ports), illus. *Doc.* 641 issued September, 1908. 8-35683
- U. S. Bureau of Fisheries:** Directory of officers, collaborators, employees, etc., of the Smithsonian institution, National museum, Geological survey, and Fish commission. 8 p. *Doc.* 39 issued June, 1882. F14-134
- U. S. Commission of fish and fisheries. Laws and regulations. 32 p. *Doc.* 49 issued June 26, 1882. F12-240
- [Origin and functions.] Printed for distribution at the Lewis and Clark centennial exposition, Portland, Oregon, 1905, by the U. S. Department of commerce and labor, section of the Bureau of fisheries. 6 p., illus.
- ~~xxx~~ — [Origin and functions.] Printed for distribution at the Ter-Centennial Exposition, near Norfolk, Va., 1907, by the U. S. Bureau of fisheries. 1907. 10 p.; illus.

ANNUAL REPORTS.

- U. S. Commissioner of Fisheries:** Annual report, 1871 and 1872, *Doc.* 3 issued 1873, 1872 and 1873, *Doc.* 4 issued 1874; 1873-74 and 1874-75, *Doc.* 15 issued July 24, 1876; 1875 and 1876, *Doc.* 17 issued 1879; 1877, *Doc.* 25 issued Oct. 17, 1879; 1878; *Doc.* 28, issued 1880; 1879, *Doc.* 46 issued June, 1882; 1880, *Doc.* 62 issued 1883; 1881, *Doc.* 65 issued Jan. 22, 1884; 1882, *Doc.* 77 issued Aug. 15, 1884; 1883, *Doc.* 95 issued Dec. 19, 1885; 1884, *Doc.* 108 issued Nov. 24, 1886; 1885, *Doc.* 115 issued May 16, 1887; 1886, *Doc.* 134 issued 1889; 1887, *Doc.* 176 issued Dec. 1, 1891; 1888-89, *Doc.* 192 issued 1893; 1889-1891, *Doc.* 213 issued 1893; 1892, *Doc.* 283 issued Dec. 26, 1894; 1893, *Doc.* 298 issued May 28, 1896; 1894, *Doc.* 315 issued 1896; 1895, *Doc.* 331 issued Jan. 6, 1897; 1896, *Doc.* 337 issued May 29, 1897; 1897, *Doc.* 344 issued Feb. 21, 1898; 1898, *Doc.* 398 issued Mar. 16, 1899; 1899, *Doc.* 430 issued Sept. 8, 1900; 1900, *Doc.* 450 issued Dec. 15, 1900; 1901, *Doc.* 481 issued June 30, 1902; 1902, *Doc.* 524 issued Apr. 16, 1903; 1903, *Doc.* 548 issued May 9, 1904; 1904, *Doc.* 553 issued Jan. 11, 1905; 1905, *Doc.* 594 issued Jan. 19, 1906; 1906, *Doc.* 608 issued Dec. 31, 1906; 1907, *Doc.* 629 issued Dec. 13, 1907; 1908, *Doc.* 642 issued Dec. 23, 1908; 1909, *Doc.* 727 issued Feb. 12, 1910; 1910, *Doc.* 734 issued Nov. 25, 1910; 1911, *Doc.* 753 issued May 4, 1912; 1912, *Doc.* 772 issued Feb. 1, 1913; 1913, *Doc.* 78 issued Jan. 27, 1914; 1914, *Doc.* 807 issued Dec. 9, 1914; 1915, *Doc.* 827 issued Dec. 24, 1915; 1916, *Doc.* 836 issued Dec. 16, 1916; 1917, *Doc.* 845 issued Dec. 6, 1917; 1918, *Doc.* 862 issued Dec. 11, 1918; 1919, *Doc.* 877 issued Dec. 11, 1919; 1920, *Doc.* 894 issued Dec. 16, 1920. F10-2-3

PUBLICATIONS.

- Seudder, Charles W.:** A list of the blank forms, circulars, and minor publications of the U. S. Fish commission from August 1, 1883, to August, 1884. Bulletin, 1884 (1884), vol. IV, p. 397-400. F18-350
- List of publications of the United States Fish commission from its establishment in February, 1871, to February, 1896. Report, 1894 (1896), p. 617-706. *Doc.* 329 issued Dec. 14, 1896.

Smiley, Charles Wesley: List of papers relating to the work of the United States Fish commission from its organization in 1871, to July 1, 1883, and which have been published under the direction of the United States Fish commission, National museum, and Tenth census, together with a topical synopsis of the titles. Bulletin, 1883 (1883), vol. III, p. 1-85. F18-114

— A list of the blank forms, circulars, and minor publications of the United States Fish commission from its organization in 1871 to August 1, 1883. Bulletin, 1883 (1883), vol. III, p. 129-148. F18-121

— Chronological list of pamphlet publications of the U. S. Fish commission from its organization in 1871 to January, 1885. Bulletin, 1885 (1885), vol. V, p. 41-48. F18-376

U. S. Bureau of Fisheries: Publications of the United States Commission of fish and fisheries available for distribution on June 30, 1897. Appendix 7, Report, 1896 (1897), p. 343-356. *Doc. 354 issued Feb. 4, 1898.*

— Publications of the United States Commission of fish and fisheries available for distribution on March 1, 1899. Report, 1899 (1900), p. 313-327. *Doc. 406 issued Mar. 28, 1899.*

— Publications of the United States Commission of fish and fisheries available for distribution on June 30, 1903. Report, 1903 (1905), p. 529-551. *Doc. 552 issued Oct. 27, 1904.*

— List of publications of the Bureau of fisheries available for distribution. *Doc. 614 issued Sept. 4, 1907; Jan. 23, 1908; Apr. 25, 1908; Dec. 21, 1908; Mar. 20, 1909; May 7, 1910; Feb. 19, 1911; Aug. 15, 1913; Oct. 20, 1914; July 17, 1915; May 26, 1916.*

LABORATORIES.

BEAUFORT, N. C.

HISTORY.

U. S. Bureau of Fisheries: The Bureau of fisheries and its biological station at Beaufort, N. C. 1916. 11 p., illus. [Occasional papers.] F16-104

U. S. Commissioner of Fisheries: [Establishment of station.] Report, 1901 (1902), p. 14-15.

— [Description of laboratory.] Report, 1903 (1905), p. 14-15, illus.

— [Improvements and repairs.] Report, 1915 (1917), p. 34-35.

BRIEF MENTION OF WORK.

U. S. Commissioner of Fisheries: Report, 1905 (1907), p. 26; 1906 (1908), p. 15; 1908 (1910), p. 11; 1909 (1911), p. 16; 1910 (1911), p. 19; 1911 (1913), p. 23; 1912 (1914), p. 57; 1913 (1914), p. 31-32; 1915 (1917), p. 35; 1918 (1920), p. 28; 1919 (1921), p. 29.

RÉSUMÉ OF INVESTIGATIONS.

Smith, Hugh McCormick: [Investigation for 1898-1903.] Report, 1899 (1900), p. CXLII-CXLIII; 1900 (1901), p. 125-126; 1901 (1902), p. 131-132; 1902 (1904), p. 138; 1903 (1905), p. 99-100; 1904 (1905), p. 118-120.

U. S. Commissioner of Fisheries: [Report of investigation for 1906.] Report, 1907 (1909), p. 12-13.

— [Report of investigations for 1913.] Report, 1914 (1915), p. 68-69.

— [Service of the Beaufort laboratory.] Report, 1916 (1917), p. 46-47.

FAIRPORT, IOWA.

HISTORY.

Coker, Robert Ervin: The Fairport fisheries biological station: its equipment, organization, and functions. Bulletin, 1914 (1916), vol. XXXIV, p. 383-405, illus., pl. LXXVI-LXXXI. *Doc. 826 issued July 7, 1916.* F16-131

— The Fisheries biological station at Fairport, Iowa. Appendix I, Report, 1920 (192-). *Doc. 895 issued 1921.*

U. S. Commissioner of Fisheries: [Fisheries laboratory at Fairport.] Report, 1914 (1915), p. 69-70; 1915 (1917), p. 33-34.

— [Service of Fairport laboratory.] Report, 1916 (1917), p. 47-48.

— [Destruction by fire.] Report, 1918 (1920), p. 28.

Wilson, Charles Branch: [Description of ponds at Fairport.] Bulletin, 1917-18 (1921), vol. XXXVI, p. 186-188.

BRIEF MENTION OF WORK.

- U. S. Commissioner of Fisheries:** Report, 1911 (1913), p. 20; 1912 (1914), p. 57; 1913 (1914), p. 32; 1916 (1917), p. 47-48; 1917 (1919), p. 87; 1918 (1920), p. 28; 1919 (1921), p. 28.

KEY WEST, FLA.

HISTORY.

- U. S. Commissioner of Fisheries:** [Acquisition of land and plans for laboratory.] Report, 1916 (1917), p. 47.
 ——— [Construction started.] Report, 1917 (1919), p. 87.

BRIEF MENTION OF WORK.

- U. S. Commissioner of Fisheries:** Report, 1918 (1920), p. 28; 1919 (1921), p. 28.

WOODS HOLE, MASS.

HISTORY.

- Baird, Spencer Fullerton:** The Woods Hole station. (Records, inception, rise, progress, and current condition.) Report, 1882 (1884), p. XXXVIII-XLI; 1883 (1885), p. LIII-LVI; 1884 (1886), p. XXXVII-XXXIX; 1885 (1887), p. XLIX-LI.
- Kidder, Jerome Henry:** Report upon the water supply of the Fish commission station at Wood's Holl, Massachusetts. Report, 1884 (1886), p. 215-221, illus., pl. F17-124
- Ravenel, William de Chastignier:** [Installation of aquarium.] Report, 1895 (1896), p. 18.
- U. S. Bureau of Fisheries:** The Bureau of fisheries and its station at Woods Hole, Mass. 1915. 11 p., illus. [Occasional papers.] F15-77
- U. S. Commissioner of Fisheries:** Selection of Woods Hole. Report, 1875-1876 (1878), p. 4*.
- Memoranda for the construction of a harbor of refuge at Woods Hole, Mass. (Circular typewritten and lithographed). 6 p. *Doc. 44 issued Apr. 28, 1882.*
- [Appropriation by Congress.] Report, 1882 (1884), p. XLI.
- [Purchase of land by private subscription; also donation of shore line.] Report, 1883 (1885), p. LIV.
- [Service of Woods Hole laboratory.] Report, 1916 (1917), p. 45-46.

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- U. S. Commissioner of Fisheries:** Report, 1885 (1887), p. 11; 1887 (1891), p. 16; 1896 (1898), p. 3; 1898 (1899), p. XVI; 1901 (1902), p. 10; 1906 (1908), p. 15; 1908 (1910), p. 11; 1909 (1911), p. 16; 1910 (1911), p. 19; 1911 (1913), p. 23; 1912 (1914), p. 58; 1913 (1914), p. 31; 1917 (1919), p. 86; 1918 (1920), p. 28; 1919 (1921), p. 28.

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- Evermann, Barton Warren:** [Report of investigations for 1903.] Report, 1904 (1905), p. 93-98.
- Rathbun, Richard:** [Report of investigations for 1887 to 1895.] Report, 1888-89 (1892), p. XLI-CVII; 1889-1891 (1893), p. 151-167; 1892 (1894), p. CIX-CX; 1893 (1895), p. 36-38; 1894 (1896), p. 96-99; 1895 (1896), p. 89-92; 1896 (1898), p. 116-118.
- Ryder, John Adam:** Report of operations at the laboratory of the U. S. Fish commission, Woods Hole, Mass., during the summer of 1888. Report, 1888-89 (1892), p. 513-522. *Doc. 181 issued June 30, 1892.* F12-223
- Smith, Hugh McCormick:** [Report of investigations for 1897 to 1903.] Report, 1897 (1898), p. CXX-CXXI; 1898 (1899), p. CXLIII-CXLV; 1899 (1900), p. 122-124; 1900 (1901), p. 122-124; 1901 (1902), p. 127-130; 1902 (1904), p. 136; 1903 (1905), p. 93-98.
- U. S. Commissioner of Fisheries:** [Report of investigations.] Report, 1905 (1907), p. 26-27; 1907 (1909), p. 12; 1914 (1915), p. 67-68; 1915 (1917), p. 34; 1916 (1917), p. 46.

Part 2.—VOYAGES AND INVESTIGATIONS.

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VESSELS, DESCRIPTION OF.

ALBATROSS.

- Baird, George Washington:** Report on the working of the boilers and engine of the U. S. Fish commission steamer *Albatross*. Bulletin, 1884 (1884), vol. IV, p. 145-151. F18-256
- Annual report on the electric lighting of the United States steamer *Albatross*, December 31, 1883. Bulletin, 1884 (1884), vol. IV, p. 153-158, illus. Doc. 73 issued June 25, 1884. F13-90
- Tanner, Zera Luther:** Report on the work of the United States Fish commission steamer *Fish Hawk* for the year ending December 31, 1882, and on the construction of the steamer *Albatross*. Report, 1882 (1884), 32 p. F11-270
- Report on the construction and outfit of the United States Fish commission steamer *Albatross*. Report, 1883 (1885), p. 3-116, LV pl. Doc. 107 issued Sept. 7, 1886. F11-295
- Deep-sea exploration: a general description of the steamer *Albatross*, her appliances and methods. Bulletin, 1896 (1897), vol. XVI, p. 257-428, illus., LX pl. Doc. 330 issued June 24, 1897. F12-112
- U. S. Bureau of Fisheries:** Specifications for building the new boilers, etc., for the steamer *Albatross*. 25 p. Doc. 109 issued 1886.
- U. S. Commissioner of Fisheries:** [Proposed steamer *Albatross*.] Report, 1881 (1884), p. XXIII-XXIV.
- [Repairs to *Albatross*.] Report, 1899 (1900), p. XXVII.

BLUE LIGHT.

- U. S. Commissioner of Fisheries:** [Detail by Secretary of Navy of *Blue Light*.] Report, 1877 (1879), p. 2*.

CANVAS BACK.

- U. S. Bureau of Fisheries:** Specifications for the paddle-wheel steam sein boat *Canvas Back*, for service in the river and bay fisheries. 12 p. Doc. 35 issued Feb. 18, 1882. F12-234
- U. S. Commissioner of Fisheries:** [*Canvas Back* loaned to State of Virginia.] Report, 1893 (1895), p. 9.

FISH HAWK.

- Tanner, Zera Luther:** Report on the construction and work in 1880 of the Fish commission steamer *Fish Hawk*. Report, 1881 (1884), 53 p. incl. tables, XVIII pl. Doc. 70 issued May 1, 1884. F12-234
- U. S. Commissioner of Fisheries:** Specifications for building the screw-steamer *Fish Hawk*. (U. S. Lighthouse establishment.) 46 p. Doc. 24 issued July, 1879. F12-235
- [Construction of the *Fish Hawk*.] Report, 1879 (1882), p. XVIII.
- [Description of the *Fish Hawk*.] Report, 1880 (1883), p. XXVI.

GRAMPUS.

- Baird, Spencer Fullerton:** [Description of the *Grampus*.] Report, 1885 (1887), p. XXIV-XXXII.
- Collins, Joseph William:** Report on the construction and equipment of the schooner *Grampus*. Report, 1887 (1891), p. 437-490, XVIII pl. Doc. 171 issued Aug. 24, 1891. F11-333
- Libbey, William:** [Description of the *Grampus*.] Bulletin, 1889 (1891), vol. IX, p. 393-394.

SPEEDWELL.

U. S. Commissioner of Fisheries: [Detail of the *Speedwell*.] Report, 1877 (1879), p. 2*–3*.

SCIENTIFIC APPARATUS AND INSTRUMENTS.

- Beardslee, Lester Anthony:** Experiments upon the time of exposure required for accurate observations on the Casella-Miller deep-sea thermometer. Report, 1877 (1879), p. 887–900. F16-125
- Casella, Louis P.:** Treatment of the Casella-Miller thermometer. Bulletin, 1884 (1884), vol. IV, p. 415. F18-351
- Kidder, Jerome H.:** Report on the thermometers of the U. S. Commission of fish and fisheries. Report, 1885 (1887), p. 185–214, illus. *Doc. 116 issued Oct. 7, 1887.* F11-300
- Libbey, William:** [Appliances used in the work of a physical investigation of the waters off the southern coast of New England.] Bulletin, 1889 (1891), vol. IX, p. 394–398.
- Rathbun, Richard:** Descriptive catalogue of the collection illustrating the scientific investigation of the sea and fresh waters. (Great International fisheries exhibition. London, 1883.) 109 p. *Doc. 69 issued Apr. 19, 1884.* F12-296
- Tanner, Zera Luther:** [Apparatus for deep-sea research, on the U. S. Fish commission steamer *Albatross*.] Report, 1883 (1885), p. 53–102.
- [Appliances and apparatus on the U. S. Fish commission steamer *Albatross*.] Report, 1886 (1889), p. 636–644.
- On the appliances for collecting pelagic organisms, with special reference to those employed by the U. S. Fish commission. Bulletin, 1894 (1895), vol. XIV, p. 143–151, pl. 9–12. *Doc. 289 issued Nov. 22, 1894.* F12-176
- [Description of Sigsbee's gravitating trap.] Bulletin, 1894 (1895), vol. XIV, p. 145–146.
- [Description of the Chun-Peterson tow net.] Bulletin, 1894 (1895), vol. XIV, p. 146–147.
- [Description of the Tanner intermediate tow net.] Bulletin, 1894 (1895), vol. XIV, p. 147–151.
- Deep-sea explorations: a general description of the steamer *Albatross*, and her appliances and methods. Bulletin, 1896 (1897), vol. XVI, p. 257–428, illus., LX pl. *Doc. 330 issued June 24, 1897.* F12-112
- Townsend, Charles Haskins:** Description of a closing tow net for submarine use at all depths. Report, 1894 (1896), p. 279–282. *Doc. 322 issued Nov. 28, 1896.* F11-188
- Verrill, Addison Emory:** Description of some of the apparatus used by the United States Commission of fish and fisheries in dredging off the New England coast. Report, 1880 (1883), p. 65–74, 4 pl. F16-303

INVESTIGATIONS AND RESULTS.

- Karsten, Gustav:** On the scientific investigation of the Baltic Sea and the German Ocean. Report, 1878 (1880), p. 283–294. F16-162
- Martens, J. B.:** [First investigation of the depths of the ocean.] Bulletin, 1882 (1883), vol. II, p. 260–262.
- [The *Challenger* scientific voyage around the world.] Bulletin, 1882 (1883), vol. II, p. 262–264.
- Prussia. Kommission zur wissenschaftlichen Untersuchung der Deutschen Meere in Kiel:** Popular extracts from the investigations of the commission for the scientific examination of the German seas. [By H. A. Meyer, K. Möbius, G. Karsten, V. Hensen.] Report, 1879 (1882), p. 525–548. *Doc. 40 issued Apr. 3, 1882.* F11-214
- Sars, George Ossian:** Report on the Norwegian deep-sea expedition of 1878. Report, 1878 (1880), p. 257–281. F16-161

ALBATROSS.

- Alexander, Alvin Burton:** Notes on the boats, apparatus, and fishing methods employed by the natives of the South Sea islands, and results of fishing trials by the *Albatross*. Report, 1901 (1902), p. 741–829, pl. 30–37. *Doc. 509 issued Oct. 29, 1902.* F11-31
- Alexander, Alvin Burton, and H. B. Joyce:** Preliminary examination of halibut grounds of the Pacific coast. With introductory notes on the halibut fishery. Report and special papers, 1911 (1913), 56 p. *Doc. 763 issued July 22, 1912.* F12-203

- Collins, Joseph William:** The *Albatross* work useful to fishermen. Bulletin, 1885 (1885), vol. V, p. 466.
- Report on the discovery and investigation of the fishing-grounds made by the Fish commission steamer *Albatross* during a cruise along the Atlantic coast and in the Gulf of Mexico, with notes on the Gulf fisheries. Report, 1885 (1887), p. 217-311, X pl. Doc. 119 issued Nov. 3, 1887. F11-298
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Part 2--FISHES.

Section 1--BIOLOGY OF FISHES.

Section 2--FISH CULTURE.

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Part 3.—FISHES.

Section 1.—BIOLOGY OF FISHES.

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