

# LIST OF REFERENCES ON THE BIOLOGY OF SHRIMP

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UNITED STATES DEPARTMENT OF THE INTERIOR  
FISH AND WILDLIFE SERVICE

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The series embodies results of investigations, usually of restricted scope, intended to aid or direct management or utilization practices and as guides for administrative or legislative action. It is issued in limited quantities for the official use of Federal, State, or cooperating Agencies and in processed form for economy and to avoid delay in publication.

United States Department of the Interior, Fred A. Seaton, Secretary  
Fish and Wildlife Service, Arnie J. Suomela, Commissioner

A LIST OF REFERENCES ON THE BIOLOGY OF SHRIMP  
(Family Penaeidae)

by

Edward Chin and Donald M. Allen  
Fishery Research Biologists  
Bureau of Commercial Fisheries



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Special Scientific Report--Fisheries No. 276

Washington, D. C.  
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**U. S. *Fish and Wildlife Service.***

Special scientific report : fisheries. no. 1-  
[Washington, 1949-

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1. Fisheries—Research.

SH11.A335                              639.2072                              59-60217

Library of Congress

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This paper contains references on the biology of shrimp (Family Penaeidae) and fishing methods and gear used by the shrimp fishery. Works are listed only by authors.

## INTRODUCTION<sup>1/</sup>

The references contained in this bibliography were compiled by the authors in the course of biological studies on commercially important shrimp, a phase of the work carried on by the Gulf Fishery Investigations, U. S. Fish and Wildlife Service. The references are listed only by authors. Although we recognize the limitations imposed by the lack of subject and taxonomic indexes, we decided to release the bibliography in this form to make it immediately available to other workers.

In order to keep the bibliography within reasonable compass, only those references which contain specific mention of shrimp belonging to the family Penaeidae are included. Because many of the publications were not available to us, some are listed incompletely or possibly erroneously; those we were unable to consult have been marked with an asterisk. No attempt was made to gather references on subjects such as the technological aspects of the shrimp processing industry, palaeontological studies, or shrimp statistics, but a few references in those fields are listed. Shrimp statistics are published annually in the Fishery Statistics of the United States by the U. S. Fish and Wildlife Service. Articles dealing with fishing methods and gear have been included because of their general interest to fishery biologists.

We hope that any errors or omissions will be brought to our attention.

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<sup>1/</sup> We are grateful to Mr. Thomas J. Costello, Gulf Fishery Investigations, for supplying us with a number of references and considerable encouragement.





## LIST OF ABBREVIATIONS

Abhand. Ber. Zool. Anthropol. Ethnolog. Mus.

Abhandlungen und Berichte des Königlich Zoologisches und  
Anthropologisch-Ethnologisches Museum  
Dresden, Germany

Abhand. K. Bayer. Akad. Wiss. Math. Phys. Kl., München

Abhandlungen der Koeniglich Bayerische  
Akademie der Wissenschaften, Math. Phys. Kl.,  
München, Germany

Abhand. Senckenb. Naturf. Ges.

Abhandlungen der Senckenbergischen Naturforschenden  
Gesellschaft  
Frankfurt, Germany

Act. Biochim.

Actualités Biochimiques  
Paris, France

Act. Soc. Esp. Hist. Nat.

Actas, Sociedad Española de Historia Natural  
Madrid, Spain

Act. Soc. Linn. Bordeaux

Actes, Société Linnéenne de Bordeaux  
Bordeaux, France

Acta Adriatica Split

Acta Adriatica  
Institut za Oceanografiju i Ribarstvo  
Split, Yugoslavia

Acta Univ. Lund. N. S.

Acta Universitatis Lundensis, Nova Series  
Lunds Universitets Årsskrift  
Lund, Sweden

Allatt. Kozlem.

Alattani Kozlemenyek  
Budapest, Hungary

Amer. J. Sci. Arts

American Journal of Science and Arts  
New Haven, Conn.

Amer. Mid. Nat.

American Midland Naturalist  
University of Notre Dame  
South Bend, Indiana

An. Acad. Bras. Cien.

Annaes, Academia Brasileira de Ciencias  
Rio de Janeiro, Brazil

An. Acad. Cien. Med. Fis. Nat. Habana

Anales, Academia de Ciencias Médicas, Físicas y  
Naturales de la Habana  
Havana, Cuba

An. Asoc. Esp. Progr. Cien.

Anales, Asociacion Española para el Progreso de las  
Ciencias  
Madrid, Spain

An. Durban Mus.

Annals, Durban Museum  
Durban, South Africa

An. Inst. Biol. Univ. Nac. Mexico

Anales, Instituto de Biología  
Universidad Nacional Autónoma de México  
Mexico City, Mexico

An. Inst. Jamaica

Annals, Institute of Jamaica  
Kingston, Jamaica

An. Inst. Océanog. Monaco

Annales, Institut Océanographique de Monaco  
Monaco

An. Jta. Invest. Colon.

Annaes, Junta das Missões Geograficas e de Investigações  
Coloniais  
Lisbon, Portugal

An. Lyc. Nat. Hist. N. Y.

Annals, Lyceum of Natural History of New York  
New York, N. Y.

An. Lyons. Univ.

Annales, Lyons Université  
Lyons, France

An. Mag. Nat. Hist.

Annals and Magazine of Natural History  
London, England

An. Mus. Hist. Nat., Marseille

Annales, Musée d'Histoire Naturelle  
Marseille, France

An. Mus. Roy. Congo Belge

Annales, Musée Royal du Congo Belge  
Tervueren, Belgium

An. Nat. Hist.

Annals of Natural History  
London, England

An. Naturhist. Hofmus. Wien

Annalen, K. K. Naturhistorisches Hofmuseums  
Wien, Austria

An. S. Afr. Mus.

Annals, South African Museum  
Cape Town, South Africa

An. Sci. Nat.

Annales des Sciences Naturelles  
Paris, France

An. Soc. Cient. Argentina

Anales, Sociedad Científica Argentina  
Buenos Aires, Argentina

An. Soc. Entomologique France

Annales, Société Entomologique de France  
Paris, France

An. Soc. Roy. Zool. Malac. Belgique

Annales, Société Royale Zoologique et Malacologique de  
Belgique  
Brussels, Belgium

An. Sta. Océanog. Salammbô

Annales, Station Océanographique de Salammbô  
Salammbô, Tunis

Ann. Rep. Sec. Comm., U. S. Bur. Fish

Annual Report to Secretary of Commerce  
United States Bureau of Fisheries  
Washington, D. C.

Annot. Zool. Japon.

Annotations Zoologicae Japonenses  
Tokyo University  
Tokyo, Japan

Anz. Akad. Wiss. Math. Kl. Wien

Anzeiger der Kaiserlichen, Akademie der Wissenschaften  
Math. Kl.  
Wien, Austria

Arb. Zool. Inst. Univ. Wien

Arbeiten aus den Zoologischen Instituten der Universität  
Wien und der Zoologischen Station in Triest  
Wien, Austria

Arch. Biochem.

Archives of Biochemistry  
New York, N. Y.

Arch. Ges. Physiol.

Archiv für die Gesamte Physiologie  
Leipzig, Germany

Arch. Miss. Sci. Lit.

Archives des Missions Scientifiques et Littéraires  
Commission des Missions Scientifiques et Littéraires  
Paris, France

Arch. Naturg.

Archiv für Naturgeschichte  
Berlin, Germany

Arch. Port. Sci. Biol.

Archives Portugaises des Sciences Biologiques  
Lisbon, Portugal

Arch. Zool. Italiano

Archivio Zoologico Italiano  
Turin, Italy

Ark. Zool.

Arkiv för Zoologi  
K. Svenska Vetenskapsakademien  
Stockholm, Sweden

Atoll Res. Bull.

Atoll Research Bulletin, National Research Council,  
Pacific Science Board  
Washington, D. C.

Atti Soc. Ital. Sci. Nat.

Atti della Società Italiana di Scienze Naturali e del  
Museo Civile di Storia Naturale  
Milan, Italy

Austral. J. Mar. Fresh. Res.

Australian Journal of Marine and Freshwater Research  
Commonwealth Scientific and Industrial Research  
Organization  
Melbourne, Australia

Austral. J. Sci.

Australian Journal of Science  
Australian National Research Council  
Sydney, Australia

Austral. Mus. Mag.

Australian Museum Magazine  
Sydney, Australia

Austral. Zool.

Australian Zoologist  
Royal Zoological Society of New South Wales  
Sydney, Australia

Beitr. Kenn. Meer. Bewohn.

Beitrage zur Kenntnis des Meeres und seiner Bewohner  
Jena, Germany

Beitr. Kenn. Meeresfauna Westafricas

Beitrage zur Kenntnis der Meeresfauna Westafrikas  
Hamburg, Germany

Bears Bluff Lab. Contr.

Bears Bluff Laboratories, Contributions  
Wadmalaw Island, South Carolina

Bijdr. Dierkunde

Bijdragen tot der Dierkunde  
Amsterdam, Netherlands

Biol. Bull.

Biological Bulletin  
Marine Biological Laboratory  
Woods Hole, Mass.

Biol. Res. Fish. Exp. "Endeavour"

Biological Results of the Fishing Experiments carried out  
by F. J. S. "Endeavour", 1909-14  
Melbourne, Australia

Bol. Minist. Agric. Brazil

Boletim do Ministerio da Agricultura (Industria e Commercio)  
Rio de Janeiro, Brazil

Bol. Mus. Nac., Zool.

Boletim do Museu Nacional, Zoologia  
Rio de Janeiro, Brazil

Bol. Pesca, Venezuela

Boletin de Pesca de la Republica de Venezuela  
Ministerio de Agricultura y Cria  
Caracas, Venezuela

Boll. Mus. Zool. Anat. Comp., Genoa

Bollettino dei Musei di Zoologia e di Anatomia Comparata  
della R. Universita  
Genoa, Italy

Boll. Mus. Zool. Anat. Comp., Turin

Bollettino dei Musei di Zoologia e di Anatomia Comparata  
della R. Universita  
Turin, Italy

Boll. Pesca Pisc. Idrobiol.

Bolletino di Pesca, Piscicoltura e Idrobiologia  
Ministero dell' Agricoltura e delle Foreste  
Uffico Centrale per la Pesca e per la Caccia  
Rome, Italy

Boll. Soc. Ent. Ital.

Bollettino della Società Entomologica Italiana  
Florence, Italy



Boll. Soc. Nat. Napoli

Bollettino, Societa di Naturalisti in Napoli  
Naples, Italy

Brit. Ant. ("Terra Nova") Exped. Nat. Hist. Rep. Zool.

British Antarctic ("Terra Nova") Expedition, 1910. Natural  
History Report - Zoology, British Museum (Natural History)  
London, England

Bull. Acad. Roy. Sci. Belgique

Bulletin, Academie Royales des Sciences, des Lettres et  
des Beaux-Arts de Belgique  
Brussels, Belgium

Bull. Amer. Mus. Nat. Hist.

Bulletin, American Museum of Natural History  
New York, N. Y.

Bull. Bingham Oceanog. Coll.

Bulletin, Bingham Oceanographic Collection  
Peabody Museum of Natural History  
New Haven, Conn.

Bull. Brit. Mus. (Nat. Hist.) Zool.

Bulletin, British Museum (Natural History) - Zoology  
London, England

Bull. Bur. Fish.

Bulletin, Bureau of Fisheries  
U. S. Department of Commerce  
Washington, D. C.

Bull. Cent. Res. Inst. Univ. Travancore

Bulletin, Central Research Institute of the University of  
Travancore  
Travancore, Trivandrum, India

Bull. Essex Inst.

Bulletin Essex Institute  
Salem, Mass.

Bull. Fan Mem. Inst. Biol. (Zool.)

Bulletin, Fan Memorial Institute of Biology (Zoology)  
Peking, China

Bull. Fish. Exp. Sta. Gov. Eng. Tyōsen

Bulletin, Fisheries Experiment Station of the Government-  
General of Tyōsen  
Korea

Bull. Gulf Biol. Stat.

Bulletin, Gulf Biologic Station  
Cameron, Louisiana

Bull. Inst. Océanog. Monaco

Bulletin Institut Océanographique de Monaco  
Monaco

Bull. Japan. Soc. Sci. Fish.

Bulletin, Japanese Society of Scientific Fisheries  
Tokyo, Japan

Bull. La. Dept. Conserv.

Bulletin, Louisiana Department of Conservation  
New Orleans, Louisiana

Bull. Madras Gov. Mus., N. S.

Bulletin, Madras Government Museum, New Series  
Madras, India

Bull. Mar. Sci. Gulf Carib.

Bulletin of Marine Science of the Gulf and Caribbean  
Miami, Florida

Bull. Mus. Comp. Zool.

Bulletin, Museum of Comparative Zoology  
Harvard University  
Cambridge, Mass.

Bull. Mus. Hist. Nat., Paris

Bulletin, Muséum d'Histoire Naturelle  
Paris, France

Bull. Mus. Océanog. Monaco

Bulletin Musée Océanographique de Monaco  
Monaco

Bull. Mus. Roy. Hist. Nat. Belgique

Bulletin, Musée Royal d'Histoire Naturelle de Belgique  
Brussels, Belgium

Bull. Sci. France Belgique

Bulletin Scientifique de la France et de la Belgique  
Paris, France

Bull. Soc. Chim. Biol.

Bulletin, Société de Chimie Biologique  
Paris, France

Bull. Soc. Sci. Nat. Tunis.

Bulletin, Société des Sciences Naturelle du Tunisie  
Tunis, Tunisia

Bull. Soc. Zool. France

Bulletin, Société Zoologique de France  
Paris, France

Bull. Sta. Océanog. Salammbô

Bulletin, Station Océanographique de Salammbô  
Salammbô, Tunisia

Bull. Torrey Bot. Club

Bulletin, Torrey Botanical Club  
New York, N. Y.

Bull. Trav. Sta. Aquicult. Pêche Castiglione

Bulletin, Travaux Publiés par la Station d'Aquiculture et  
de Pêche de Castiglione  
Algiers, Algeria

Bull. U. S. Fish Com.

Bulletin, U. S. Fish Commission  
Washington, D. C.

Bull. Vanderbilt Mar. Mus.

Bulletin, Vanderbilt Marine Museum  
Long Island, N. Y.

Bull. Zool. Nomen.

Bulletin of Zoological Nomenclature  
London, England

C. R. Acad. Sci.

Comptes Rendus Hebdomaires des Séances de l'Académie  
des Sciences  
Paris France

C. R. Assoc. Franc. Av. Sci.

Compte Rendu de la Session Association Française pour  
l'Avancement des Sciences  
Paris, France

C. R. Soc. Biol.

Comptes Rendus de la Séances de la Société Biologie  
Paris, France

Calif. Fish and Game

California Fish and Game  
California Department of Fish and Game  
San Francisco, Calif.

Centro Invest. Pesqueras, Contr.

Centro de Investigaciones Pesqueras, Contribución  
Dependencia de la Division Agricola del Banco de Fomento  
Agricola e Industrial de Cuba  
Havana, Cuba

Charleston Mus. Leaflet

Charleston Museum Leaflet  
Charleston, South Carolina

Ciencia

Ciencia, Revista Hispano-Americana de Ciencias Puras y  
Aplicadas, Patronato de Ciencia  
Mexico City, Mexico

Comm. Fish. Rev. F.W.S.

Commercial Fisheries Review, Fish and Wildlife Service  
U. S. Department of the Interior  
Washington, D. C.

Comun. Inst. Trop. Invest. Cient., El Salvador

Comunicaciones, Instituto Tropical de Investigaciones  
Cientificas, Universidad de El Salvador  
San Salvador, El Salvador

Comun. Mus. Nac, Buenos Aires

Comunicaciones, Museo Nacional de Buenos Aires  
Buenos Aires, Argentina

Conserv. Bull. U.S.D.I.

Conservation Bulletin, U.S. Department of the Interior  
Washington, D. C.

Contr. Yamaguchi Pref. Inland Sea Fish. Exp. Sta.

Contributions, Yamaguchi Prefectural Inland Sea Fisheries  
Experimental Station  
Japan

Conv. Papers Nat. Shellfish. Assoc.

Convention Papers, National Shellfisheries Association  
Washington, D. C.

Copeia

Copeia  
American Society of Ichthyologists and Herpetologists  
Pittsburg, Pa.

Curr. Sci.

Current Science  
Current Science Association Malleswaram  
Bangalore, India

Daily Consul. and Trade Rep. U.S. Dept. Comm.

Daily Consular and Trade Reports  
U. S. Department of Commerce  
Washington, D. C.

Debats Doc. Tech. Gen. Fish. Coun. Medit.

Débats et Documents Techniques  
General Fisheries Council for the Mediterranean  
FAO, United Nations  
Rome, Italy

Deep-Sea Res.

Deep-Sea Research  
New York, N. Y.

Denkschr. K. Akad. Wiss., Math.-Nat. Kl., Wien

Denkschriften der Kaiserlichen Akademie der Wissenschaften,  
Mathematisch-Naturwissenschaftlichen Klasse  
Wien, Austria

Denkschr. Med.-Nat. Ges. Jena

Denkschriften der Medizinisch-Naturwissenschaftlichen  
Gesellschaft zu Jena  
Jena, Germany

Deutsche Tierärztl. Wochenschr.

Deutsche Tierärztliche Wochenschrift  
Hanover, Germany

Deutsche Sudpolar-Exped.

Deutsche Sudpolar-Expedition  
Berlin, Germany

Discovery

Discovery  
London, England

"Discovery" Rep.

"Discovery Reports  
Cambridge, England

Ecol. Monog.

Ecological Monographs  
Ecological Society of America  
Durham, N. C.

Ecology

Ecology  
Ecological Society of America  
Durham, N. C.

Exp. Parasit.

Experimental Parasitology  
New York, N. Y.

Far East. Quart.

Far Eastern Quarterly; Review of Eastern Asia and the  
Adjacent Pacific Islands  
Menasha, Wis.

Fish. Bull. F.W.S.

Fishery Bulletin, Fish and Wildlife Service  
U. S. Department of Interior  
Washington, D. C.

Fish. Newslett.

Fisheries Newsletter  
Commonwealth Fisheries Office  
Sydney, Australia

Fishery Leaflet, F.W.S.

Fishery Leaflet, Fish and Wildlife Service  
U. S. Department of Interior  
Washington, D. C.

Fla. State Bd. Conserv. Educ. Ser.

Florida State Board of Conservation Educational Series  
Tallahassee, Florida

Fla. State Bd. Conserv. Tech. Ser.

Florida State Board of Conservation Technical Series  
Tallahassee, Florida

Food Res.

Food Research  
Champaign, Ill.



Gegenbaurs Morphol. Jahrb.

Gegenbaurs Morphologisches Jahrbuch  
Leipzig, Germany

Gulf. Biol. Sta. Bienn. Rep.

Gulf Biologic Station, Biennial Report  
Cameron, La.

Gulf States Mar. Fish. Com. Ann. Rep.

Gulf States Marine Fisheries Commission, Annual Report  
New Orleans, La.

Harriman Alaska Ser.

Harriman Alaska Series  
Smithsonian Institution  
Washington, D. C.

Holmbergia

Holmbergia  
Buenos Aires, Argentina

Ind-Com J.

Ind-Com Journal  
Department of Industries and Commerce  
Madras, India

Indian Fmg.

Indian Farming  
Imperial Council of Agricultural Research  
Calcutta, India

Indian J. Fish.

Indian Journal of Fisheries  
New Delhi, India

Indo-Pac. Fish. Coun. Contr. Publ.

Indo-Pacific Fisheries Council, Contributed Publications  
FAO Regional Office for Asia and the Far East  
Bangkok, Thailand

Indo-Pac. Fish. Coun. Spec. Publ.

Indo-Pacific Fisheries Council, Special Publications  
FAO Regional Office for Asia and the Far East  
Bangkok, Thailand

Indo-Pac. Fish. Coun. Symp.

Indo-Pacific Fisheries Council, Symposium  
FAO Regional Office for Asia and the Far East  
Bangkok, Thailand

Indo-Pac. Fish. Coun. Tech. Pap.

Indo-Pacific Fisheries Council, Technical Papers  
FAO Regional Office for Asia and the Far East  
Bangkok, Thailand

Invest. Rep. Bur. Fish.

Investigational Report, Bureau of Fisheries  
U. S. Department of Commerce  
Washington, D. C.

J. Acad. Nat. Sci. Phila.

Journal, Academy of Natural Sciences of Philadelphia  
Philadelphia, Pa.

J. Ala. Acad. Sci.

Journal of the Alabama Academy of Science  
Birmingham, Ala.

J. Animal Ecol.

Journal of Animal Ecology  
British Ecological Society  
Oxford, England

J. Biol. Chem.

Journal of Biological Chemistry  
American Society of Biological Chemists  
New Haven, Conn.

J. Bombay Nat. Hist. Soc.

Journal, Bombay Natural History Society  
Bombay, India

J. Coll. Agri., Imp. Univ. Tokyo

Journal, College of Agriculture  
Imperial University of Tokyo  
Tokyo, Japan

J. Elisha Mitchell Sci. Soc.

Journal, Elisha Mitchell Scientific Society  
University of North Carolina  
Chapel Hill, N. C.

J. Fac. Sci. Tokyo Univ.

Journal, Faculty of Science  
Tokyo Imperial University  
Tokyo, Japan

J. Fish. Res.

Journal of Fisheries Research  
(Suisan Kenkyūshi)  
Tokyo, Japan

J. Fish. Soc. Japan

Journal, Fisheries Society of Japan  
(Suisankai)  
Tokyo, Japan

J. Imp. Fish. Bur.

Journal, Imperial Fisheries Bureau  
Tokyo, Japan

J. Imp. Fish. Inst.

Journal, Imperial Fisheries Institute  
Yokosuka, Japan

J. Linn. Soc. (Zool.), London

Journal, Linnean Society (Zoology)  
London, England

J. Madras Univ.

Journal of Madras University  
Madras, India

J. Mammal.

Journal of Mammalogy  
Baltimore, Md.

J. Mar. Biol. Assoc. U.K.

Journal, Marine Biological Association of the United Kingdom  
Plymouth, England

J. Paleontology

Journal of Paleontology  
Tulsa, Okla.

J. Parasit.

Journal of Parasitology  
American Society of Parasitologists  
Lancaster, Pa.

J. Roy. Asiat. Soc. Bengal

Journal, Royal Asiatic Society of Bengal  
Calcutta, India

J. Sci. Hiroshima Univ.

Journal of Science  
Hiroshima University  
Japan

J. Sci. Indus. Res.

Journal of Scientific and Industrial Research  
Council of Scientific and Industrial Research  
New Delhi, India

J. Sci. Math. Fis. Nat.

Journal de Ciências Matemáticas, Físicas e Naturais  
Academia das Ciências de Lisboa  
Lisbon, Portugal

J. Tokyo Coll. Fish.

Journal, Tokyo College of Fisheries  
Tokyo, Japan

J. Tokyo Univ. Fish.

Journal, Tokyo University of Fisheries  
Tokyo, Japan

J. Univ. Bombay

Journal, University of Bombay  
Bombay, India

J. Wash. Acad. Sci.

Journal, Washington Academy of Science  
Washington, D. C.

J. Yamaguchi Pref. Naikai Fish. Exp. Sta.

Journal, Yamaguchi Prefectural Naikai  
Fisheries Experimental Station  
Japan

**J. Zool. Soc. India**

Journal, Zoological Society of India  
Calcutta, India

**Japan. J. Zool.**

Japanese Journal of Zoology  
National Research Council  
Tokyo, Japan

**John Murray Exped. Sci. Rep.**

John Murray Expedition to the Indian Ocean, 1933-1934  
Scientific Reports  
British Museum (Natural History)  
London, England

**Johns Hopkins Univ. Circ.**

Johns Hopkins University Circular  
Baltimore, Maryland

**Kong. Danske Vidensk. Selsk. Skr.**

Kongelige Danske  
Videnskabernes Selskabs Skrifter  
Copenhagen, Denmark

**La. Conserv.**

Louisiana Conservationist  
Louisiana Wildlife and Fisheries Commission  
New Orleans, La.

**La. Conserv. Rev.**

Louisiana Conservation Review  
Louisiana Department of Conservation  
New Orleans, La.

**La. Dept. Conserv., Bienn. Rep.**

Louisiana Department of Conservation, Biennial Report  
New Orleans, La.

La. Dept. Conserv., Tech. Pap.

Louisiana Department of Conservation, Technical Paper  
New Orleans, La.

La. Dept. Wildlife and Fish., Bienn. Rep.

Louisiana Department of Wildlife and Fisheries, Biennial Report  
New Orleans, Louisiana

Landbouw

Landbouw ( Vereeniging van Landbouwconsulenten in  
Nederlandsch-Indië)  
Buitenzorg, Java

Limnol. and Oceanog.

Limnology and Oceanography  
American Society of Limnology and Oceanography  
Baltimore, Maryland

Lingnan Sci. J.

Lingnan Science Journal  
College of Science  
Lingnan University  
Canton, China

Mar. Invest. S. Africa

Marine Investigations in South Africa  
Department of Agriculture  
Capetown, South Africa

Medd. Grønland

Meddelelser om Grønland, af Kommissionen for Ledelsen  
af de geologiske og geographiske  
Undersøgelser i Grønland  
Copenhagen, Denmark

Med. Acad. Sci. Lisboa

Memorias, Academia das Sciencias de Lisboa  
Lisbon, Portugal

Mem. Asiat. Soc. Bengal

Memoirs, Asiatic Society of Bengal  
Calcutta, India

Mem. Austral. Mus.

Memoirs, Australian Museum  
Sydney, Australia

Mem. Estud. Mus. Zool. Univ. Coimbra

Memórias e Estudos, Museu Zoológico da Universidade de  
Coimbra  
Coimbra, Portugal

Mem. Ind. Mus.

Memoirs, Indian Museum  
Calcutta, India

Mem. Mus. Comp. Zool.

Memoirs, Museum of Comparative Zoology  
Harvard University  
Cambridge, Mass.

Mem. Nat. Acad. Sci.

Memoirs, National Academy of Sciences  
Washington, D. C.

Mem. Rev. Soc. Cient. Alzate

Memorias y revista, Sociedad Científica "Antonio Alzate"  
Mexico City, Mexico



Mem. Soc. Cubana Hist. Nat.

Memorias, Sociedad Cubana de Historia Natural  
Universidad de la Habana  
Havana, Cuba

Memo. Bur. Fish.

Memorandum, Bureau of Fisheries  
U. S. Department of Commerce  
Washington, D. C.

Mitt. Zool. Sta. Neapel

Mitteilungen aus der Zoologischen Station zu Neapel  
Berlin, Germany

Monit. Zool. Ital.

Monitore Zoologico Italiano  
Unione Zoologica Italiana  
Florence, Italy

Monog. Univ. Sydney Dept. Zool.

Monographs, University of Sydney  
Department of Zoology  
Sydney, Australia

Mycologia

Mycologia  
Lancaster, Pa.

Nat. Geogr. Mag.

National Geographic Magazine  
National Geographic Society  
Washington, D. C.

Nat. Malgache

Naturaliste Malgache  
Parc Zoologique et Botanique  
Tananarive, Madagascar

Nat. Siciliano

Naturalista Siciliano  
Palermo, Italy

Notes Leyden Mus.

Notes, Leyden Museum  
Leyden, Netherlands

Notes Stat. Océanog. Salammbô

Notes, Station Océanographie de Salammbô  
Salammbô, Tunisia

Occ. Papers Calif. Acad. Sci.

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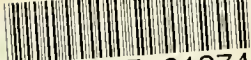
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