

CEPHALOPODS OF THE WORLD

AN ANNOTATED AND ILLUSTRATED CATALOGUE OF
CEPHALOPOD SPECIES KNOWN TO DATE

Volume 2. Myopsid and Oegopsid Squids





CEPHALOPODS OF THE WORLD

AN ANNOTATED AND ILLUSTRATED CATALOGUE OF CEPHALOPOD SPECIES KNOWN TO DATE

Volume 2

Myopsid and Oegopsid Squids

edited by

P. Jereb

Istituto Superiore per la Protezione e la Ricerca Ambientale
Rome, Italy

and

C.F.E. Roper

Smithsonian Institution, National Museum of Natural History
Washington, DC, United States of America

with the support of the
Government of Italy

(Ministero per le Politiche Agricole e Forestali,
Direzione Generale per la Pesca e l'Acquacoltura)

The designations employed and the presentation of material in this information product do not imply the expression of any opinion whatsoever on the part of the Food and Agriculture Organization of the United Nations (FAO) concerning the legal or development status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. The mention of specific companies or products of manufacturers, whether or not these have been patented, does not imply that these have been endorsed or recommended by FAO in preference to others of a similar nature that are not mentioned.

The views expressed in this information product are those of the author(s) and do not necessarily reflect the views of FAO.

ISBN 978-92-5-106720-8

All rights reserved. FAO encourages the reproduction and dissemination of material in this information product. Non-commercial uses will be authorized free of charge, upon request. Reproduction for resale or other commercial purposes, including educational purposes, may incur fees. Applications for permission to reproduce or disseminate FAO copyright materials, and all queries concerning rights and licences, should be addressed by e-mail to

copyright@fao.org

or to the

Chief, Publishing Policy and Support Branch
Office of Knowledge Exchange, Research and Extension
FAO, Viale delle Terme di Caracalla, 00153 Rome, Italy

*The Second Volume of this New Edition of the Cephalopods of the World Catalogue
is heartily dedicated to the*

Worldwide Cephalopod Scientific Community.

*May our knowledge continue to improve with time and this
contribute to a wiser use of the World Oceans. We feel there is no
better way to honour the memory of all our colleagues who have
passed away.*

PREPARATION OF THIS DOCUMENT

This document has been prepared by the Marine and Inland Fisheries Service, Fisheries and Aquaculture Resources Use and Conservation Division, FAO Fisheries and Aquaculture Department. It is part of the regular programme activities and a partial fulfilment of the Organization's role with regards to the marine fisheries resources identification and biodata (FAO Programme Element 232A3). It received support through contributions from the Ministry of Agriculture and Forestry Policies of the Government of Italy and from the Ministry of Foreign Affairs of the Kingdom of Norway to the FAO Global Partnerships for Responsible Fisheries (FISHCODE).

This publication is the second of three volumes of the second edition of the original FAO Catalogue of Cephalopods of the World (Roper *et al.*, 1984), and it constitutes Volume II of Number 4 in the new series: *FAO Species Catalogue for Fisheries Purposes*, that evolved as an independent series in 2001 from the former *FAO Fisheries Synopsis* No. 125.

Because the new Catalogue has expanded apace with recent research and fisheries information and revisions, it now is necessary to publish it as three free-standing volumes. Each volume has separate pagination, terminology/glossary, systematic sections, list of species and a volume-specific bibliography. This allows readers to use each volume independently without having to consult the other volumes for technical terms, measurements or bibliographic purposes. We hope that this added flexibility will provide convenience and utility for users of the Catalogue.

Programme coordinators: Jordi Lleonart and Michel Lambouef (former FAO, Rome).

Programme manager: Johanne Fischer (FAO, Rome).

Scientific and technical editors: Patrizia Jereb (ISPRA, Rome) and Clyde F.E. Roper (Smithsonian Institution, NMNH, Washington DC, USA).

Scientific reviser: Nicoletta De Angelis (FAO, Rome).

Technical, editorial assistance: Ingrid Roper (Smithsonian Institution, NMNH, Volunteer, Washington DC, USA).

Scientific assistance: Michael J. Sweeney (formerly Smithsonian Institution, NMNH, Washington DC, USA).

Scientific illustrator: Emanuela D'Antoni (FAO, Rome).

Page composition and indexing: Michèle S. Kautenberger-Longo (FAO, Rome).

Digitization of distribution maps: Fabio Carocci (FAO, Rome).

Cover illustration: Emanuela D'Antoni (FAO, Rome).

Jereb, P.; Roper, C.F.E. (eds)

Cephalopods of the world. An annotated and illustrated catalogue of cephalopod species known to date. Volume 2. Myopsid and Oegopsid Squids.

FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. 2010. 605p. 10 colour plates.

ABSTRACT

This is the second volume of the entirely rewritten, revised and updated version of the original FAO Catalogue of Cephalopods of the World (1984). The present Volume is a multiauthored compilation that reviews 28 families, i.e. (in alphabetical order), *Ancistrocheiridae*, *Architeuthidae*, *Australiteuthidae*, *Bathyteuthidae*, *Batoteuthidae*, *Brachioteuthidae*, *Chiroteuthidae*, *Chtenopterygidae*, *Cranchiidae*, *Cycloteuthidae*, *Enoploteuthidae*, *Gonatidae*, *Histioteuthidae*, *Joubiniteuthidae*, *Lepidoteuthidae*, *Loliginidae*, *Lycoteuthidae*, *Magnapinnidae*, *Mastigoteuthidae*, *Neoteuthidae*, *Octopoteuthidae*, *Ommastrephidae*, *Onychoteuthidae*, *Pholidoteuthidae*, *Promachoteuthidae*, *Psychroteuthidae*, *Pyroteuthidae* and *Thysanoteuthidae*, with 83 genera and the 295 species known and named to the date of the completion of the volume. It provides accounts for all families and genera, as well as illustrated keys. Information under species accounts includes: valid modern systematic name and original citation of the species (or subspecies); synonyms; English, French and Spanish FAO names for the species; illustrations of dorsal and ventral aspects of the whole animal (as necessary) and other distinguishing illustrations; field characteristics; diagnostic features; geographic and vertical distribution, including GIS map; size; habitat; biology; interest to fishery; local names when available; a remarks section (as necessary) and literature. The Volume is fully indexed and also includes sections on terminology and measurements, an extensive glossary, an introduction with an updated review of the existing biological knowledge on squids (including fisheries information and main catch data for recent years) and a dedicated bibliography. Due to the conspicuous amount of literature addressing many squid species, an appendix is included in the online version, where those references considered most pertinent to the species are listed, by family and species, in alphabetical order by author; key words, also, are reported.

Distribution

Authors

FAO Fisheries Officers

Regional Fisheries Councils and Commissions

Selector SC

For bibliographic reference the different sections should be quoted as follows:

- Jereb, P., Roper, C.F.E. & Vecchione, M.** 2010. Introduction. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 1–11.
- Jereb, P., Roper, C.F.E. & Vecchione, M.** 2010. Family Australiteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 35–37.
- Jereb, P., Vecchione, M. & Roper, C.F.E.** 2010. Family Loliginidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 38–117.
- Roper, C.F.E. & Jereb, P.** 2010. Family Ancistrocheiridae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 118–120.
- Roper, C.F.E. & Jereb, P.** 2010. Family Architeuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 121–123.
- Roper, C.F.E. & Jereb, P.** 2010. Family Bathyteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 124–126.
- Roper, C.F.E. & Jereb, P.** 2010. Family Batoteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 127–128.
- Roper, C.F.E. & Jereb, P.** 2010. Family Brachioteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 129–134.
- Roper, C.F.E. & Jereb, P.** 2010. Family Chiroteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 135–145.
- Roper, C.F.E. & Jereb, P.** 2010. Family Ctenopterigidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 146–147.
- Roper, C.F.E. & Jereb, P.** 2010. Family Cranchiidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 148–178.
- Roper, C.F.E. & Jereb, P.** 2010. Family Cycloteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 179–182.
- Roper, C.F.E. & Jereb, P.** 2010. Family Enoploteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 183–200.
- Roper, C.F.E. & Jereb, P.** 2010. Family Histioteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 223–236.
- Roper, C.F.E. & Jereb, P.** 2010. Family Joubiniteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 237–238.
- Roper, C.F.E. & Jereb, P.** 2010. Family Lepidoteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. n239–240.

- Roper, C.F.E. & Jereb, P.** 2010. Family Lycoteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 241–246.
- Roper, C.F.E. & Jereb, P.** 2010. Family Magnapinnidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 247–249.
- Roper, C.F.E. & Jereb, P.** 2010. Family Mastigoteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 250–256.
- Roper, C.F.E. & Jereb, P.** 2010. Family Neoteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 257–261.
- Roper, C.F.E. & Jereb, P.** 2010. Family Octopoteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 262–268.
- Roper, C.F.E. & Jereb, P.** 2010. Family Onychoteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 348–369.
- Roper, C.F.E. & Jereb, P.** 2010. Family Pholidoteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 370–373.
- Roper, C.F.E. & Jereb, P.** 2010. Family Promachoteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 374–376.
- Roper, C.F.E. & Jereb, P.** 2010. Family Psychroteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 377–378.
- Roper, C.F.E. & Jereb, P.** 2010. Family Pyroteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 379–383.
- Roper, C.F.E. & Jereb, P.** 2010. Family Thysanoteuthidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 384–387.
- Roper, C.F.E., Nigmatullin C. & Jereb P.** 2010. Family Ommastrephidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 269–347.
- Roper, C.F.E., Jorgensen, E. M., Katugin O. N. & Jereb, P.** 2010. Family Gonatidae. In P. Jereb & C.F.E. Roper, eds. *Cephalopods of the world. An annotated and illustrated catalogue of species known to date. Volume 2. Myopsid and Oegopsid Squids.* FAO Species Catalogue for Fishery Purposes. No. 4, Vol. 2. Rome, FAO. pp. 200–222.

Acknowledgements

The authors are pleased to heartily acknowledge the contributions of colleagues who have supplied information or read drafts of this Second Edition of the Cephalopod Catalogue. Without their good efforts this work would have been a less comprehensive, and consequently a less useful tool.

In particular, for this Volume, we want to thank: **Louise Allcock** (Co-editor, Journal of Natural History, Martin Ryan Marine Science Institute, Galway, Ireland), **Freddy Arocha** (Instituto Oceanográfico, Universidad de Oriente, Cumana, Venezuela), **Giambattista Bello** (Mola di Bari, Italy), **John Bower** (Northern Biosphere Field Science Center, Hokkaido University, Hakodate, Hokkaido, Japan), **Norma E. Brunetti** (Instituto Nacional de Investigación y Desarrollo Pesquero (INIDEP), Mar del Plata, Argentina), **Naritoshi Cho** (National Research Institute of Fisheries Science, Fisheries Research Agency, Nagai, Yokosuka, Japan), **Cherdchinda Chotiyaputta** (Department of Marine and Coastal Resources, Ministry of Natural Resources and Environment, Bangkok, Thailand), **Angel F. Gonzalez** and **Angel Guerra** (ECOBIOIMAR, Instituto de Investigaciones Marinas, Vigo, Spain), **Eugenia Lefkaditou** (Institute of Marine Biological Resources-NCMR, Athens, Greece), **Marek Lipinski** (Marine and Coastal Management-DEAT, Cape Town, South Africa), **Chung-Cheng Lu** (Victoria, Australia), **Pilar Martínez** (Servicio de Biología, Instituto Nacional de Toxicología, Madrid, Spain), **Rodrigo S. Martins** (Marine and Coastal Management, University of Cape Town, South Africa), **Ana Moreno** and **Joao M.F. Pereira** (Instituto Nacional De Investigacao Agraria e das Pescas, INIAP/IPIMAR, Lisbon, Portugal), **José A. Alvarez Perez** (Centro de Ciências Tecnológicas da Terra e do Mar, Vale do Itajaí University, Brazil), **Uwe Piatkowski** (Leibniz-Institut fuer Meereswissenschaften, Kiel University, Kiel, Germany), **Antoni Quetglas** (IEO-Centre Oceanogràfic de Balears, Palma de Mallorca, Spain), **Rui Rosa** (Laboratório Marítimo da Guia, Centro de Oceanografia, Lisbon University, Cascais, Portugal), **Toshie Wakabayashi** (Oceanic Squid Section, National Research Institute of Far Seas Fisheries, Fukuura, Yokohama, Japan), **José Xavier** (Centre of Marine Sciences, University of Algarve, Faro, Portugal), and **Karsten Zumholz** (Fisheries School Rendsburg, Rendsburg, Germany).

Very special thanks are due to **Nancy Voss** (Director of the Marine Invertebrate Museum, Rosenstiel School of Marine and Atmospheric Science, Miami, Florida, USA), for her knowledgeable help in solving systematic problems, with reference to species of the Cranchiidae, and to **Richard E. Young** (Professor Emeritus, Department of Oceanography, University of Hawaii at Manoa, Honolulu, Hawaii), for his continuous help and support in addressing and solving systematics and nomenclatural problems throughout the last phase of our work.

In the earliest phase of this work, **Michael J. Sweeney** (formerly Smithsonian Institution, National Museum of Natural History, WA, DC, USA) provided technical support, nomenclatural listing and literature searches, for which we all are grateful.

We gratefully acknowledge **Joerg Loetze**, Director of the Humboldt Field Research Station at Eagle Hill, Steuben, Maine (USA), for his support and generosity during our several visits to this collegial retreat.

Michel Lamboeuf (formerly Programme Manager at FAO, now retired) and **Jordi Leonardt** (formerly Programme Manager at FAO, now back to the Institut de Ciències del Mar, CSIC, Barcelona, Spain), were our principal administrative contacts at FAO until 2008. This publication would not have been forthcoming without their very much appreciated support and encouragement.

We especially want to thank **Michel** for his help and constant support during all the years dedicated to this project.

Of course, a compilation of this nature must rely heavily on already-published works: these, we acknowledge with gratitude. In particular, we acknowledge here that many illustrations from these works have been used for the purposes of this Catalogue, for which we are most appreciative.

We also acknowledge with deep thanks the members of the FAO technical staff who so efficiently contributed to the preparation of this Volume: **Emanuela d'Antoni** for her excellent job in creating the many illustrations needed for the Catalogue and for greatly enhancing many illustrations from the literature; **Nicoletta De Angelis** and **Michèle Kautenberger-Longo** for their skilful collaboration in completing this highly technical and complex document; **Fabio Carocci** for the preparation of the distribution maps. All are premier representatives of their professions.

We especially want to thank **Nicoletta**, for her constant, collegial support and faith that this volume would be completed.

Colour photographs are included in this new edition of the Catalogue to enrich the quality and utility of the book. Therefore we acknowledge with deep gratitude those who contributed with great generosity by offering photographic material: **Howard and Michele Hall** (Howard Hall Production, USA), **Roger T. Hanlon** (Marine Biological Laboratory, Woods Hole, USA), **Tsunemi Kubodera** (National Museum of Nature and Science, Department of Zoology, Tokyo, Japan), **Mark Norman** (Museum of Victoria, Australia), **Malcolm Smale** (Port Elizabeth Museum, Bayworld Centre for Research and Education, Port Elizabeth, South Africa), **Isamu Soyama** (Tsuru-Shi, Yamanashi-Prefecture, Japan), **Michael Vecchione** (National Systematic Laboratory, National Museum of Natural History, Washington, DC, USA), **Peter Wirtz** (Madeira, Portugal), and **Richard E. Young** (Department of Oceanography, University of Hawaii at Manoa, Honolulu, Hawaii).

Last, but not least, very special thanks are due to **Ingrid H. Roper**, for her technical assistance and invaluable support during all stages of the preparation of this Catalogue. Without her technical and linguistic skills and her perseverance, this volume would not have been so well accomplished.

In the years that have elapsed between the publication of the first and the second Volumes of this new Edition, three highly esteemed colleagues and cherished friends have passed away: **Peter R. Boyle**, **Martina Compagno-Roeleveld** and **Martin J. Wells**. Our knowledge of the cephalopod world has benefitted greatly by their universally acknowledged and valued contributions. We all have gained from their collegiality and have enjoyed greatly their friendship.

Our special thanks to them for their lifetime service.

Table of Contents

PREPARATION OF THIS DOCUMENT	v
1. INTRODUCTION.	1
1.1 Plan of the Catalogue	2
1.2 General Remarks on Cephalopods	3
1.3 General Remarks on Squids	3
1.4 Interest to Fishery and Role in the Ecosystem	8
1.5 Illustrated Glossary of Technical Terms and Measurements.	12
1.6 Key to Recent Myopsid and Oegopsid Squids.	25
2. SQUIDS	34
Myopsid Squids	35
Family AUSTRALITEUTHIDAE Lu, 2005	35
<i>Australiteuthis</i> Lu, 2005	36
<i>Australiteuthis aldrichi</i> Lu, 2005	36
Family LOLIGINIDAE Lesueur, 1821	38
Key to the genera of Loliginidae	39
<i>Loligo</i> Lamarck, 1798	40
<i>Loligo vulgaris</i> Lamarck, 1798	40
<i>Loligo forbesii</i> Steenstrup, 1856	43
<i>Loligo reynaudii</i> Orbigny, 1839–1841	46
<i>Afrololigo</i> Brakoniecki, 1986	48
<i>Afrololigo mercatoris</i> (Adam, 1941)	48
<i>Alloteuthis</i> Wülker, 1920	49
<i>Alloteuthis media</i> (Linnaeus, 1758)	50
<i>Alloteuthis africana</i> Adam 1950	52
<i>Alloteuthis subulata</i> (Lamarck, 1798)	53
<i>Doryteuthis</i> Naef, 1912	54
Key to the subgenera of <i>Doryteuthis</i>	54
Subgenus <i>Doryteuthis</i> Naef, 1912	55
<i>Doryteuthis (Doryteuthis) plei</i> (Blainville, 1823)	55
<i>Doryteuthis (Doryteuthis) roperi</i> (Cohen, 1976)	57
Subgenus <i>Amerigo</i> Brakoniecki, 1986	58
<i>Doryteuthis (Amerigo) gahi</i> (d'Orbigny, 1835)	58
<i>Doryteuthis (Amerigo) ocula</i> (Cohen, 1976)	61
<i>Doryteuthis (Amerigo) opalescens</i> (Berry, 1911)	62
<i>Doryteuthis (Amerigo) pealeii</i> (Lesueur, 1821)	64
<i>Doryteuthis (Amerigo) surinamensis</i> (Voss, 1974)	68
<i>Doryteuthis sanpaulensis</i> (Brakoniecki, 1984)	69
<i>Heterololigo</i> Natsukari, 1984	70
<i>Heterololigo bleekeri</i> (Keferstein, 1866)	71
<i>Loliolus</i> Steenstrup, 1856	72
Key to the subgenera of <i>Loliolus</i>	73
Subgenus <i>Loliolus</i> Steenstrup, 1856	73
<i>Loliolus (Loliolus) hardwickei</i> (Gray, 1849)	73
<i>Loliolus (Loliolus) affinis</i> Steenstrup, 1856	75
Subgenus <i>Nipponololigo</i> Natsukari, 1983	76
<i>Loliolus (Nipponololigo) beka</i> (Sasaki, 1929)	76
<i>Loliolus (Nipponololigo) japonica</i> (Hoyle, 1885)	77
<i>Loliolus (Nipponololigo) sumatrensis</i> (D'Orbigny, 1835)	78
<i>Loliolus (Nipponololigo) uyii</i> (Wakiya and Ishikawa, 1921)	80
<i>Lolliguncula</i> Steenstrup, 1881	81

Key to the subgenera of <i>Lolliguncula</i>	81
Subgenus <i>Lolliguncula</i> Steenstrup, 1881	81
<i>Lolliguncula (Lolliguncula) brevis</i> (Blainville, 1823)	81
<i>Lolliguncula (Lolliguncula) argus</i> Brakoniecki and Roper, 1985	84
<i>Lolliguncula (Lolliguncula) panamensis</i> Berry, 1911	85
Subgenus <i>Loliolopsis</i> Berry, 1929	86
<i>Lolliguncula (Loliolopsis) diomedea</i> (Hoyle, 1904)	86
<i>Pickfordiateuthis</i> Voss, 1953	87
<i>Pickfordiateuthis pulchella</i> Voss, 1953	88
<i>Pickfordiateuthis bayeri</i> Roper and Vecchione, 2001	89
<i>Pickfordiateuthis vossi</i> Brakoniecki, 1996	90
<i>Sepioteuthis</i> Blainville, 1824	91
<i>Sepioteuthis sepioidea</i> (Blainville, 1823)	91
<i>Sepioteuthis australis</i> Quoy and Gaimard, 1832	93
<i>Sepioteuthis lessoniana</i> Ferussac in Lesson, 1831	95
<i>Uroteuthis</i> Rehder, 1945	98
Key to the subgenera of <i>Uroteuthis</i>	98
Subgenus <i>Uroteuthis</i> Rehder, 1945	98
<i>Uroteuthis (Uroteuthis) bartschi</i> Rehder, 1945	99
Subgenus <i>Aestuariolus</i> Alexeyev, 1992	100
<i>Uroteuthis (Aestuariolus) noctiluca</i> (Lu, Roper, and Tait, 1985)	100
Subgenus <i>Photololigo</i> Natsukari, 1984	101
<i>Uroteuthis (Photololigo) edulis</i> (Hoyle, 1885)	101
<i>Uroteuthis (Photololigo) abulati</i> (Adam, 1955)	103
<i>Uroteuthis (Photololigo) arabica</i> (Ehrenberg, 1831)	104
<i>Uroteuthis (Photololigo) bengalensis</i> (Jothinayagam, 1987)	105
<i>Uroteuthis (Photololigo) chinensis</i> Gray, 1849	106
<i>Uroteuthis (Photololigo) duvaucelii</i> (Orbigny, 1835)	108
<i>Uroteuthis (Photololigo) machelae</i> Roeleveld and Augustine, 2005	110
<i>Uroteuthis (Photololigo) robsoni</i> Alexeyev, 1992	111
<i>Uroteuthis (Photololigo) sibogae</i> (Adam, 1954)	112
<i>Uroteuthis (Photololigo) singhalensis</i> (Ortmann, 1891)	113
<i>Uroteuthis (Photololigo) vossi</i> (Nesis, 1982)	114
<i>Uroteuthis pickfordi</i> (Adam, 1954)	116
<i>Uroteuthis reesi</i> (Voss, 1962)	117
Oegopsid Squids	118
Family ANCISTROCHEIRIDAE Pfeffer, 1912	118
<i>Ancistrocheirus</i> Gray, 1849	119
<i>Ancistrocheirus lesueurii</i> (d'Orbigny, 1842)	119
Family ARCHITEUTHIDAE Pfeffer, 1900	121
<i>Architeuthis</i> Steenstrup, 1857	121
<i>Architeuthis dux</i> Steenstrup, 1857	122
<i>Architeuthis martensi</i> (Hilgendorf, 1880)	122
<i>Architeuthis sanctipauli</i> (Velain, 1877)	123
Family BATHYTEUTHIDAE Pfeffer, 1900	124
<i>Bathyteuthis</i> Hoyle, 1885	124
Key to species of <i>Bathyteuthis</i> (adults and juveniles)	124
<i>Bathyteuthis abyssicola</i> Hoyle, 1885	125
<i>Bathyteuthis bacidifera</i> Roper, 1968	126
<i>Bathyteuthis berryi</i> Roper, 1968	126
Family BATOTEUTHIDAE Young and Roper, 1968	127
<i>Batoteuthis</i> Young and Roper, 1968	127
<i>Batoteuthis skolops</i> Young and Roper, 1968	127
Family BRACHIOTEUTHIDAE Pfeffer, 1908	129
<i>Brachioteuthis</i> Verrill, 1881	130

<i>Brachioteuthis riisei</i> (Steenstrup, 1882)	130
<i>Brachioteuthis picta</i> Chun, 1910	132
<i>Brachioteuthis beanii</i> Verrill, 1881	133
<i>Brachioteuthis behnii</i> (Steenstrup, 1882).	133
<i>Brachioteuthis bowmani</i> Russell, 1909.	133
<i>Brachioteuthis linkovskyi</i> (Lipinski, 2001)	134
<i>Slosarczykovia</i> Lipinski, 2001	134
<i>Slosarczykovia circumantarctica</i> Lipinski, 2001	134
Family CHIROTEUTHIDAE Gray, 1849	135
Key to the genera of Chiroteuthidae	135
<i>Chiroteuthis</i> d'Orbigny, 1841	136
<i>Chiroteuthis veranyi</i> (Ferussac, 1834)	137
<i>Chiroteuthis calyx</i> Young, 1972	138
<i>Chiroteuthis imperator</i> Chun, 1908	138
<i>Chiroteuthis joubini</i> Voss, 1967	138
<i>Chiroteuthis mega</i> (Joubin, 1932)	139
<i>Chiroteuthis picteti</i> Joubin, 1894	139
<i>Chiroteuthis spoeli</i> Salcedo-Vargas, 1996	139
<i>Asperoteuthis</i> Nesis, 1980	140
<i>Asperoteuthis acanthoderma</i> (Lu, 1977)	140
<i>Asperoteuthis lui</i> Salcedo-Vargas, 1999	141
<i>Asperoteuthis mangoldae</i> Young, Vecchione and Roper 2007	141
<i>Grimalditeuthis</i> Joubin, 1898	141
<i>Grimalditeuthis bonplandi</i> (Verany, 1839)	142
<i>Planctoteuthis</i> Pfeffer, 1912	143
<i>Planctoteuthis exophthalmica</i> (Chun, 1908)	143
<i>Planctoteuthis danae</i> (Joubin, 1931)	144
<i>Planctoteuthis levimana</i> (Lönnerberg, 1896)	145
<i>Planctoteuthis lippula</i> (Chun 1908)	145
<i>Planctoteuthis oligobessa</i> (Young, 1972)	145
Family CHTENOPTERYGIDAE Grimpe, 1922	146
<i>Chtenopteryx</i> Appellöf, 1890	146
<i>Chtenopteryx sicula</i> (Verany, 1851)	146
<i>Chtenopteryx canariensis</i> Salcedo-Vargas and Guerrero-Kommritz, 2000	147
<i>Chtenopteryx sepioloidea</i> Rancurel, 1970	147
Family CRANCHIIDAE Prosch, 1847	148
Key to the genera of Cranchiidae (adults) (from N. A. Voss, 1980)	149
Subfamily CRANCHIINAE Pfeffer, 1912	150
<i>Cranchia</i> Leach, 1817	151
<i>Cranchia scabra</i> Leach, 1817	151
<i>Leachia</i> Lesueur, 1821	152
<i>Leachia cyclura</i> Lesueur, 1821	153
<i>Leachia atlantica</i> (Degner, 1925)	154
<i>Leachia danae</i> (Joubin, 1931)	154
<i>Leachia dislocata</i> Young, 1972	154
<i>Leachia lemur</i> (Berry, 1920)	155
<i>Leachia pacifica</i> (Issel, 1908)	155
<i>Liocranchia</i> Pfeffer, 1884	156
<i>Liocranchia reinhardti</i> (Steenstrup, 1856)	156
<i>Liocranchia valdiviae</i> Chun 1910	157
Subfamily TAONIINAE Pfeffer, 1912	158
<i>Taonius</i> Steenstrup, 1861	158
<i>Taonius pavo</i> (Lesueur, 1821)	159
<i>Taonius belone</i> (Chun 1906)	160
<i>Taonius borealis</i> (Nesis, 1972)	160

<i>Bathothauma</i> Chun, 1906	160
<i>Bathothauma lyromma</i> Chun, 1906	161
<i>Egea</i> Joubin, 1933	162
<i>Egea inermis</i> Joubin, 1933	162
<i>Galiteuthis</i> Joubin, 1898	163
<i>Galiteuthis armata</i> Joubin, 1898	164
<i>Galiteuthis glacialis</i> (Chun, 1906)	165
<i>Galiteuthis pacifica</i> (Robson, 1948)	165
<i>Galiteuthis phyllura</i> Berry, 1911	165
<i>Galiteuthis suhmi</i> (Hoyle, 1886)	166
<i>Helicocranchia</i> Massy, 1907	166
<i>Helicocranchia pfefferi</i> Massy, 1907	167
<i>Helicocranchia joubini</i> (Voss, 1962)	168
<i>Helicocranchia papillata</i> (Voss, 1960)	168
<i>Liguriella</i> Issel, 1908	168
<i>Liguriella podophthalma</i> Issel, 1908	169
<i>Megalocranchia</i> Pfeffer, 1884	170
<i>Megalocranchia maxima</i> Pfeffer, 1884	171
<i>Megalocranchia oceanica</i> (Voss, 1960)	172
<i>Mesonychoteuthis</i> Robson, 1925	172
<i>Mesonychoteuthis hamiltoni</i> Robson, 1925	173
<i>Sandalops</i> Chun, 1906	174
<i>Sandalops melancholicus</i> Chun, 1906	174
<i>Teuthowenia</i> Chun, 1910	175
<i>Teuthowenia megalops</i> (Prosch, 1847)	176
<i>Teuthowenia maculata</i> (Leach, 1817)	178
<i>Teuthowenia pellucida</i> (Chun, 1910)	178
Family CYCLOTEUTHIDAE Naef, 1923	179
Key to the genera of Cycloteuthidae	179
<i>Cycloteuthis</i> Joubin, 1919	179
<i>Cycloteuthis sirventi</i> Joubin, 1919	180
<i>Cycloteuthis akimushkini</i> Filippova, 1968	181
<i>Discoteuthis</i> Young and Roper, 1969	181
<i>Discoteuthis discus</i> Young and Roper, 1969	181
<i>Discoteuthis laciniosa</i> Young and Roper, 1969	182
Family ENOPLOTEUTHIDAE Pfeffer, 1900	183
Key to the families of the Enoploteuthid Group	183
<i>Enoploteuthis</i> d'Orbigny in Rüppell, 1844	184
<i>Enoploteuthis leptura leptura</i> (Leach, 1817)	184
<i>Enoploteuthis leptura magnoceani</i> Nesis, 1982	185
<i>Enoploteuthis anapsis</i> Roper, 1964	185
<i>Enoploteuthis chunii</i> Ishikawa, 1914	186
<i>Enoploteuthis galaxias</i> Berry, 1918	186
<i>Enoploteuthis higginsi</i> Burgess, 1982	186
<i>Enoploteuthis jonesi</i> Burgess, 1982	187
<i>Enoploteuthis obliqua</i> (Burgess, 1982)	187
<i>Enoploteuthis octolineata</i> Burgess, 1982	187
<i>Enoploteuthis reticulata</i> (Rancurel, 1970)	188
<i>Enoploteuthis semilineata</i> Alexeyev, 1994	188
<i>Abralia</i> Gray, 1849	188
<i>Abralia armata</i> (Quoy and Gaimard, 1832)	189
<i>Abralia andamanica</i> Goodrich, 1896	190
<i>Abralia astrolineata</i> Berry, 1914	190
<i>Abralia astrostricta</i> Berry, 1909	190
<i>Abralia dubia</i> (Adam, 1960)	190

<i>Abralia fasciolata</i> Tsuchiya, 1991	191
<i>Abralia grimpei</i> Voss, 1959	191
<i>Abralia heminuchalis</i> Burgess, 1992	191
<i>Abralia marisarabica</i> Okutani, 1983	191
<i>Abralia multihamata</i> Sasaki, 1929	192
<i>Abralia omiae</i> Hidaka and Kubodera, 2000	192
<i>Abralia redfieldi</i> Voss, 1955	192
<i>Abralia renschi</i> Grimpe, 1931	192
<i>Abralia robsoni</i> Grimpe, 1931	193
<i>Abralia siedleckyi</i> Lipinski, 1983	193
<i>Abralia similis</i> Okutani and Tsuchiya, 1987	193
<i>Abralia spaercki</i> Grimpe, 1931	193
<i>Abralia steindachneri</i> Weindl, 1912	194
<i>Abralia trigonura</i> Berry, 1913	194
<i>Abralia veranyi</i> (Rüppel, 1844)	194
<i>Abraliopsis</i> Joubin, 1896	194
<i>Abraliopsis hoylei</i> (Pfeffer, 1884)	195
<i>Abraliopsis affinis</i> (Pfeffer, 1912)	196
<i>Abraliopsis atlantica</i> Nesis, 1982	196
<i>Abraliopsis chuni</i> Nesis, 1982	196
<i>Abraliopsis falco</i> Young, 1972	196
<i>Abraliopsis felis</i> McGowan and Okutani, 1968	197
<i>Abraliopsis gilchristi</i> (Robson, 1924)	197
<i>Abraliopsis lineata</i> (Goodrich, 1896)	197
<i>Abraliopsis morisii</i> (Verany, 1839)	197
<i>Abraliopsis pacificus</i> Tsuchiya and Okutani, 1990	198
<i>Abraliopsis tui</i> Riddell, 1985	198
<i>Watasenia</i> Ishikawa, 1914	198
<i>Watasenia scintillans</i> (Berry, 1911)	199
Family GONATIDAE Hoyle, 1886	200
Key to the genera of Gonatidae	201
<i>Gonatus</i> Gray, 1849	202
<i>Gonatus fabricii</i> (Lichtenstein, 1818)	203
<i>Gonatus kamtschaticus</i> (Middendorff, 1849)	204
<i>Gonatus madokai</i> Kubodera and Okutani, 1977	206
<i>Gonatus steenstrupi</i> Kristensen, 1981	207
<i>Berryteuthis</i> Naef, 1921	209
<i>Berryteuthis magister</i> (Berry, 1913)	209
<i>Berryteuthis anonychus</i> (Pearcy and Voss, 1963)	211
<i>Gonatopsis</i> Sasaki, 1920	213
<i>Gonatopsis octopedatus</i> Sasaki, 1920	213
<i>Gonatopsis borealis</i> Sasaki, 1923	215
<i>Gonatopsis japonicus</i> Okiyama, 1969	216
<i>Gonatopsis makko</i> Okutani and Nemoto, 1964	218
SPECIES OF NO CURRENT INTEREST TO FISHERIES, OR RARE SPECIES FOR WHICH ONLY FEW RECORDS EXIST TO DATE	219
<i>Gonatus antarcticus</i> Lönnberg, 1898	219
<i>Gonatus berryi</i> Naef, 1923	219
<i>Gonatus californiensis</i> Young, 1972	219
<i>Gonatus onyx</i> Young, 1972	220
<i>Gonatus oregonensis</i> Jefferts, 1985	220
<i>Gonatus pyros</i> Young, 1972	220
<i>Gonatus ursabrunae</i> Jefferts, 1985	221
<i>Berryteuthis magister nipponensis</i> Okutani and Kubodera, 1987	221
<i>Berryteuthis magister shevtsovi</i> Katugin, 2000	221
<i>Eogonatus</i> Nesis, 1972	222

<i>Eogonatus tinro</i> Nesis, 1972	222
<i>Gonatopsis okutanii</i> Nesis, 1972	222
Family HISTIOTEUTHIDAE Verrill, 1881	223
Key to the species and subspecies of Histioteuthidae (from Voss <i>et al.</i> 1998a)	224
<i>Histioteuthis</i> d'Orbigny, 1841	226
<i>Histioteuthis bonnellii</i> (Ferussac, 1834)	226
<i>Histioteuthis hoylei</i> (Goodrich, 1896)	228
<i>Histioteuthis miranda</i> (Berry, 1918)	229
<i>Histioteuthis reversa</i> (Verrill, 1880)	231
SPECIES OF NO CURRENT INTEREST TO FISHERIES, OR RARE SPECIES FOR WHICH ONLY FEW RECORDS EXIST TO DATE.	232
<i>Histioteuthis arcturi</i> (Robson, 1948)	232
<i>Histioteuthis atlantica</i> (Hoyle, 1885)	232
<i>Histioteuthis celetaria celetaria</i> (Voss, 1960)	233
<i>Histioteuthis celetaria pacifica</i> (Voss, 1962)	233
<i>Histioteuthis corona berryi</i> Voss, 1969	233
<i>Histioteuthis corona cerasina</i> Nesis, 1971	234
<i>Histioteuthis corona corona</i> (Voss and Voss, 1962)	234
<i>Histioteuthis corona inermis</i> (Taki, 1964)	234
<i>Histioteuthis eltaninae</i> Voss, 1969	235
<i>Histioteuthis heteropsis</i> (Berry, 1913)	235
<i>Histioteuthis macrohista</i> Voss, 1969	235
<i>Histioteuthis meleagroteuthis</i> (Chun, 1910)	236
<i>Histioteuthis oceani</i> (Robson, 1948)	236
Family JOUBINITEUTHIDAE Naef, 1922	237
<i>Joubiniteuthis</i> Berry, 1920	237
<i>Joubiniteuthis portieri</i> (Joubin, 1916)	237
Family LEPIDOTEUTHIDAE Pfeffer, 1912	239
<i>Lepidoteuthis</i> Joubin, 1895	239
<i>Lepidoteuthis grimaldii</i> Joubin, 1895	239
Family LYCOTEUTHIDAE Pfeffer, 1908	241
Key to the subfamilies of Lycoteuthidae	241
Subfamily LYCOTEUTHINAE Pfeffer, 1908	241
<i>Lycoteuthis</i> Pfeffer, 1900	242
<i>Lycoteuthis lorigera</i> (Steenstrup, 1875)	242
<i>Lycoteuthis springeri</i> (Voss, 1956)	243
<i>Nematolampas</i> Berry, 1913	244
<i>Nematolampas regalis</i> Berry, 1913	244
<i>Nematolampas venezuelensis</i> Arocha, 2003	245
<i>Selenoteuthis</i> Voss, 1959	245
<i>Selenoteuthis scintillans</i> Voss, 1959	245
Subfamily LAMPADIOTEUTHINAE Berry, 1916	246
<i>Lampadioteuthis</i> Berry, 1916	246
<i>Lampadioteuthis megaleia</i> Berry, 1916	246
Family MAGNAPINNIDAE Vecchione and Young, 1998	247
<i>Magnapinna</i> Vecchione and Young, 1998	247
<i>Magnapinna pacifica</i> Vecchione and Young, 1998	248
<i>Magnapinna atlantica</i> Vecchione and Young, 2006	249
<i>Magnapinna talismani</i> (Fischer and Joubin, 1907)	249
Family MASTIGOTEUTHIDAE Verrill, 1881	250
<i>Mastigoteuthis</i> Verrill, 1881	252
<i>Mastigoteuthis agassizii</i> Verrill, 1881	252
<i>Mastigoteuthis atlantica</i> Joubin, 1933	253
<i>Mastigoteuthis cordiformis</i> Chun, 1908	253

<i>Mastigoteuthis danae</i> (Joubin, 1933)	253
<i>Mastigoteuthis dentata</i> Hoyle, 1904	253
<i>Mastigoteuthis famelica</i> (Berry, 1909)	254
<i>Mastigoteuthis glaukopsis</i> Chun, 1908	254
<i>Mastigoteuthis hjorti</i> Chun, 1913	254
<i>Mastigoteuthis magna</i> Joubin, 1913	254
<i>Mastigoteuthis microlucens</i> Young, Lindgren and Vecchione 2008	255
<i>Mastigoteuthis psychrophila</i> Nesis, 1977	255
<i>Mastigoteuthis pyrodes</i> Young, 1972	255
DOUBTFUL AND QUESTIONABLE SPECIES FOR WHICH ADDITIONAL MATERIAL, NEW DATA AND FURTHER RESEARCH ARE NECESSARY BEFORE THEY CAN BE CONSIDERED VALID	256
<i>Mastigoteuthis hastula</i> (Berry, 1920)	256
<i>Mastigoteuthis inermis</i> Rancurel, 1972	256
<i>Mastigoteuthis iselini</i> MacDonald and Clench, 1934	256
<i>Mastigoteuthis latipinna</i> Sasaki, 1916	256
<i>Mastigoteuthis okutanii</i> Salcedo-Vargas, 1997	256
<i>Mastigoteuthis tyroi</i> Salcedo-Vargas, 1997	256
Family NEOTEUTHIDAE Naef, 1921	257
<i>Neoteuthis</i> Naef, 1921	258
<i>Neoteuthis thielei</i> Naef, 1921	258
<i>Alluroteuthis</i> Odhner, 1923	259
<i>Alluroteuthis antarcticus</i> Odhner, 1923	259
<i>Narrowteuthis</i> Young and Vecchione, 2005	260
<i>Narrowteuthis nesisii</i> Young and Vecchione, 2005	260
<i>Nototeuthis</i> Nesis and Nikitina, 1986	261
<i>Nototeuthis dimegacotyle</i> Nesis and Nikitina, 1986	261
Family OCTOPOTEUTHIDAE Berry, 1912	262
Key to the genera of Octopoteuthidae (adults)	262
Key to the genera of Octopoteuthidae (paralarvae, juveniles)	263
<i>Octopoteuthis</i> Rüppell, 1844	263
<i>Octopoteuthis sicula</i> Rüppell, 1844	264
<i>Taningia</i> Joubin, 1931	265
<i>Taningia danae</i> Joubin, 1931	265
SPECIES OF NO CURRENT INTEREST TO FISHERIES, OR RARE SPECIES FOR WHICH ONLY FEW RECORDS EXIST TO DATE.	267
<i>Octopoteuthis danae</i> Joubin, 1931	267
<i>Octopoteuthis deletron</i> Young, 1972	267
<i>Octopoteuthis indica</i> (Naef, 1923)	267
<i>Octopoteuthis megaptera</i> (Verrill, 1885)	268
<i>Octopoteuthis nielsenii</i> (Robson, 1948)	268
<i>Octopoteuthis rugosa</i> Clarke, 1980	268
Family OMMASTREPHIDAE Steenstrup, 1857	269
Key to the subfamilies and genera of Ommastrephidae	272
Subfamily ILLICINAE Posselt, 1891	276
<i>Illex</i> Steenstrup, 1880	276
Key to the species of <i>Illex</i> (from Roper <i>et al.</i> 1998)	280
<i>Illex illecebrosus</i> (Lesueur, 1821)	280
<i>Illex argentinus</i> (Castellanos, 1960)	285
<i>Illex coindetii</i> (Verany, 1839)	290
<i>Illex oxygonius</i> Roper, Lu and Mangold, 1969	292
Subfamily OMMASTREPHINAE Posselt, 1891	294
<i>Ommastrephes</i> d'Orbigny, 1834 <i>in</i> 1834–1847	295
<i>Ommastrephes bartramii</i> (Lesueur, 1821)	295
<i>Dosidicus</i> Steenstrup, 1857	300
<i>Dosidicus gigas</i> (d'Orbigny 1835)	301
<i>Euclidean</i> Berry, 1916	304

<i>Eucleoteuthis luminosa</i> (Sasaki, 1915)	305
<i>Hyaloteuthis</i> Gray, 1849	306
<i>Hyaloteuthis pelagica</i> (Bosc, 1802)	307
<i>Ornithoteuthis</i> Okada, 1927	308
Key to the species of <i>Ornithoteuthis</i>	309
<i>Ornithoteuthis volatilis</i> (Sasaki, 1915)	309
<i>Ornithoteuthis antillarum</i> Adam, 1957	312
<i>Sthenoteuthis</i> Verrill, 1880	314
Key to the species of <i>Sthenoteuthis</i>	315
<i>Sthenoteuthis oulaniensis</i> (Lesson, 1830)	315
<i>Sthenoteuthis pteropus</i> (Steenstrup, 1855)	318
Subfamily TODARODINAE Adam, 1960	322
<i>Todarodes</i> Steenstrup, 1880	322
<i>Todarodes sagittatus</i> (Lamarck, 1798)	322
<i>Todarodes angolensis</i> Adam, 1962	325
<i>Todarodes filippovae</i> Adam, 1975	326
<i>Todarodes pacificus</i> (Steenstrup, 1880)	328
<i>Todarodes pusillus</i> Dunning, 1988	333
<i>Martialia</i> Rochebrune and Mabile, 1889	334
<i>Martialia hyadesi</i> Rochebrune and Mabile, 1889	334
<i>Nototodarus</i> Pfeffer, 1912	336
<i>Nototodarus sloanii</i> (Gray, 1849)	337
<i>Nototodarus gouldi</i> (McCoy, 1888)	340
<i>Nototodarus hawaiiensis</i> (Berry, 1912)	343
<i>Todaropsis</i> Girard, 1890	345
<i>Todaropsis eblanae</i> (Ball, 1841)	345
Family ONYCHOTEUTHIDAE Gray, 1849	348
Key to the genera of Onychoteuthidae	349
<i>Onychoteuthis</i> Lichtenstein, 1818	349
<i>Onychoteuthis banksii</i> (Leach, 1817)	350
<i>Onychoteuthis borealijaponica</i> Okada, 1927	352
<i>Ancistroteuthis</i> Gray, 1849	353
<i>Ancistroteuthis lichtensteini</i> (Férussac, 1835)	354
<i>Notonykia</i> Nesis, Roeleveld and Nikitina, 1998	355
<i>Notonykia africanae</i> Nesis, Roeleveld and Nikitina, 1998	355
<i>Notonykia nesisii</i> Bolstad, 2007	356
<i>Onykia</i> Lesueur, 1821	356
<i>Onykia carriboea</i> Lesueur, 1821	357
<i>Onykia ingens</i> (Smith, 1881)	359
<i>Onykia knipovitchi</i> (Filippova, 1972)	360
<i>Onykia lönnbergi</i> (Ishikawa and Wakiya, 1914)	362
<i>Onykia robsoni</i> (Adam, 1962)	363
<i>Onykia robusta</i> (Verrill, 1876)	364
<i>Kondakovia</i> Filippova, 1972	365
<i>Kondakovia longimana</i> Filippova, 1972	365
<i>Walvisteuthis</i> Nesis and Nikitina, 1986	366
<i>Walvisteuthis virilis</i> Nesis and Nikitina, 1986	367
SPECIES OF NO CURRENT INTEREST TO FISHERIES, OR RARE SPECIES FOR WHICH ONLY FEW RECORDS EXIST	368
<i>Onychoteuthis compacta</i> (Berry, 1913)	368
<i>Onychoteuthis meridiopacifica</i> Rancurel and Okutani, 1990	368
DOUBTFUL SPECIES, CONSIDERED TO BELONG TO THE GENUS <i>WALVISTEUTHIS</i> BY AN AUTHORITATIVE FRACTION OF THE SCIENTIFIC COMMUNITY	369
<i>Onykia rancureli</i> Okutani, 1981	369
DOUBTFUL AND QUESTIONABLE SPECIES FOR WHICH ADDITIONAL MATERIAL, NEW DATA AND FURTHER RESEARCH ARE NECESSARY BEFORE THEY CAN BE ACCEPTED AS VALID	369

<i>Onykia appellöfi</i> (Pfeffer, 1900)	369
<i>Onykia intermedia</i> (Pfeffer, 1912)	369
<i>Onykia platyptera</i> (d'Orbigny, 1834 (1834-1847))	369
<i>Onykia verrilli</i> (Pfeffer, 1900)	369
Family PHOLIDOTEUTHIDAE Voss, 1956	370
<i>Pholidoteuthis</i> Adam, 1950	370
Key to the species of <i>Pholidoteuthis</i>	371
<i>Pholidoteuthis massyae</i> (Pfeffer, 1912)	371
<i>Pholidoteuthis adami</i> Voss, 1956	372
Family PROMACHOTEUTHIDAE Naef, 1912	374
<i>Promachoteuthis</i> Hoyle, 1885	375
<i>Promachoteuthis megaptera</i> Hoyle, 1885	375
<i>Promachoteuthis sloani</i> Young, Vecchione and Piatkowski 2006	376
<i>Promachoteuthis sulcus</i> Young, Vecchione and Roper, 2007	376
<i>Promachoteuthis</i> sp. B Young, Vecchione and Roper (2007)	376
<i>Promachoteuthis</i> sp. D Young, Vecchione and Roper (2007)	376
Family PSYCHROTEUTHIDAE Thiele, 1920	377
<i>Psychroteuthis</i> Thiele, 1920	377
<i>Psychroteuthis glacialis</i> Thiele, 1920	378
Family PYROTEUTHIDAE Pfeffer, 1912	379
Key to the genera of Pyroteuthidae	379
<i>Pyroteuthis</i> Hoyle, 1904	379
<i>Pyroteuthis margaritifera</i> (Rüppel, 1844)	380
<i>Pyroteuthis addolux</i> Young, 1972	381
<i>Pyroteuthis serrata</i> Riddell, 1985	381
<i>Pterygioteuthis</i> Fischer, 1896	381
<i>Pterygioteuthis giardi</i> Fischer, 1896	382
<i>Pterygioteuthis gemmata</i> Chun, 1908	383
<i>Pterygioteuthis microlampas</i> Berry, 1913	383
Family THYSANOTEUTHIDAE Keferstein, 1866	384
<i>Thysanoteuthis</i> Troschel, 1857	385
<i>Thysanoteuthis rhombus</i> Troschel, 1857	385
3. LIST OF NOMINAL SPECIES	388
4. LIST OF SPECIES BY MAJOR FISHING AREAS	396
5. REFERENCES	404
6. INDEX OF SCIENTIFIC AND VERNACULAR NAMES	579
7. LIST OF COLOUR PLATES	604