

An Annotated
Bibliography on the Breeding Habits
and Development
of Fishes of the
Indian Region



BULLETIN No. 3

CENTRAL MARINE FISHERIES RESEARCH INSTITUTE

SEPTEMBER 1968

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AN ANNOTATED BIBLIOGRAPHY ON THE BREEDING
HABITS AND DEVELOPMENT OF FISHES OF
THE INDIAN REGION

BY

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September 1968

(Abbr: Bull. cent. mar. Fish. Res. Inst.)

CENTRAL MARINE FISHERIES RESEARCH INSTITUTE

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Madras State, India.

THE BULLETIN OF THE CENTRAL MARINE FISHERIES
RESEARCH INSTITUTE IS PUBLISHED AT IRREGULAR
INTERVALS AS AND WHEN INFORMATION OF A GENERAL
NATURE BECOMES AVAILABLE FOR DISSEMINATION.

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FOREWORD

This 'Foreword' should serve as a preface also since I happen to be one of the authors of this Bulletin. Some personal reference, therefore is unavoidable.

My association with investigations relating to breeding habits and development of fishes goes back to a period of about three and a half decades and despite exigencies of service and vicissitudes of official career it had been possible to maintain contact with the subject more or less uninterruptedly. At the time of initiation of work in this field the scattered and sketchy nature of the relevant literature became evident and the need for bringing them together and reviewing them was keenly felt. An attempt was made in this direction resulting in the account entitled "Breeding habits and development of Indian freshwater and brackishwater fishes" which was published by me in 1946 in two parts in the *Journal of the Bombay Natural History Society*. This, I should say, was well received and soon after, with the change of assignment to fisheries research after a decade of service as an entomologist, it became possible for me to carry on work on the life-histories of fishes as a routine rather than as a hobby. With the literature collected till then two fairly comprehensive bibliographies entitled "Bibliography of breeding habits and development of fishes of inland waters of India" and "Bibliography of breeding habits and development of estuarine and marine fishes of India" were published in 1950 and 1951 respectively in the *Journal of the Zoological Society of India*. Incidentally it may be stated that these were the first bibliographies to be published in fisheries and marine sciences in the Indian Region and could be said to have paved the way for others.

The present bibliography covers the earlier ones issued also. The annotations are brief, just to indicate the most salient aspects pertaining to the subject in the concerned reference. No annotation however detailed could substitute any original article and hence those interested are advised to refer the original contributions. To avoid confusion in most cases, scientific names as given by the authors are used and the validity of these has not been gone into. Reference to figures has been inadvertently left out in some of the annotations and this may be condoned.

Every effort has been made to make the bibliography as comprehensive as possible and authors would be thankful for bringing to their notice,

omissions or mistakes if any. In all 1079 references are listed, more than double of the earlier two which had altogether 484 references. To a very great extent this increase in number has been due to the increased interest evinced in the fishery circles in India in life-history studies of fishes during the last two decades. It may be said here that in this respect a dominant role was played by the two Central Fisheries Research Institutes dealing with the marine and inland fisheries research formerly under the Ministry of Food and Agriculture, Government of India and now in the Indian Council of Agricultural Research. Further, while many of the earlier contributions had remained in the abstract stage or in the form of brief notes, most of the recent contributions have come out as full papers thereby enhancing their utility from the reference point of view.

The area covered in the present bibliography is more or less the same as in the previous ones, viz., the subcontinent of India and the adjacent countries, ichthyofauna of which is familiar to Indian workers. Relevant information to the extent available are given on exotic fishes introduced in this country. References to the spawning and life-history stages of fishes distributed in the Indian Ocean based on the work done elsewhere are also included. To make the listing comprehensive references of a casual nature relating to young stages, such as fry, fingerlings and juveniles and their transport, culture etc. are also cited though the same may not strictly come under regular life-history studies. This has been done deliberately with hardly any attempt at selection. The bibliography may therefore appear 'diffuse' but it was felt expedient to 'err' in this direction leaving selection to the need and judgement of the workers concerned.

I wish to record here my appreciation of the efficient way my colleague and co-author, Mr. P. Bensam, collaborated with me in the compilation and annotation of the widely scattered references without prejudice to his routine work. It is also a pleasure to express my appreciation of the very high sense of duty and responsibility shown by staff of the Institute who worked with devotion to bring out the Bulletin in time.

It is hoped that this Bibliography will be found helpful by the fishery biologists engaged in the study of life histories of fishes and would pave the way for further studies in this field and thus enable us to acquire a better knowledge of our resources so essential in fishery development and management.

Mandapam Camp
September, 1968.

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Size at first spawning, locality and time of spawning and resorption of residual eggs in *Neothunnus macropterus*.

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Breeding season, breeding habits, fertilized egg, development of the embryo, newly hatched larva and appearance of scales.

CLASSIFIED LIST OF FISHES WITH RELEVANT REFERENCES
IN THE BIBLIOGRAPHY

Fam. ORECTOLOBIDAE

Chiloscyllium griseum Muller and
Aiyar, 1942. Henle
Aiyar and Nalini, 1938.
Jones, 1951.
Nalini, 1940.
Prasad, 1946.
Raj, 1914.
Samuel, 1945.
Setna and Saranghdar, 1949a.
Southwell and Prashad, 1919.
Uni. Travancore, 1948.

Chiloscyllium indicum (Gmelin)
Deraniyagala, 1934a, 1934b.
Jones, 1951.
Smedley, 1926b.

Stegostoma tigrinum Bonnaterre
Smith, 1949.

Stegostoma varium (Seba)
Jones, 1951.
Smedley, 1926a.

Fam. CARCHARINIDAE

Carcharinus dussumieri (Muller and
Aiyar, 1942. Henle)
Aiyar and Mahadevan, 1939.
Alcock, 1890.
Jones, 1951.
*Prasad, 1951.

Carcharinus limbatus (Muller and
Bensam, 1965b. Henle)
Jones, 1951.
Setna and Saranghdar, 1950a.

Carcharinus melanopterus (Quoy and
Alcock, 1890. Gaimard)
Chidambaram and Menon, 1946b.
Jones, 1951.
Melouk, 1949, 1957.
Setna and Saranghdar, 1950a.

Carcharinus menisorrah (Muller and
Jones, 1951. Henle)
Setna and Saranghdar, 1950a.

Carcharinus sorrah (Muller and Henle)
Jones, 1951.
Setna and Saranghdar, 1950a.

Carcharinus temminckii (Muller and
Jones, 1951. Henle)
Setna and Saranghdar, 1950a. 1950b.

Galeocerdo arcticus (Faber) =
G. tigrinus Muller and Henle
Devanesan and Chidambaram, 1948.
Jones, 1951.
Prasad, 1951.
Saranghdar, 1943, 1946.
Setna and Saranghdar, 1950a.

Galeocerdo spp.
Chidambaram and Menon, 1946b.

Hemigaleus balfouri Day
Aiyar and Mahadevan, 1939.
Jones, 1951.
Prasad, 1946, 1951.
Setna and Saranghdar, 1949b,
1950a, 1950b.

Hypoprion macloiti Muller and Henle
Jones, 1951.
Setna and Saranghdar, 1950a.

Myrnillo mustelus (Linnaeus)
Setna and Saranghdar, 1950b.

Scoliodon acutus (Ruppell)
Setna and Saranghdar, 1950b.

Scoliodon palasorrah (Cuvier)
Aiyar, 1942.
Aiyar and Mahadevan, 1939.
Jones, 1951.
Mahadevan, 1940.
Prasad, 1942, 1951.
Setna and Saranghdar, 1950a.

Scoliodon sorrakowah (Cuvier)
Aiyar, 1942.
Aiyar and Mahadevan, 1939.
Choodamani, 1941.
Jones, 1951.
*Prasad, 1942, 1951.
Setna and Saranghdar, 1949b.

*Mahadevan, 1940.

*Mahadevan, 1940.

Scoliodon sorrakowah (Contd.)
Southwell and Prashad, 1919.
Thillayambalam, 1948.

Scoliodon walbeehmi Bleeker
Aiyar and Mahadevan, 1939.
Anonymous, 1949.
Jones, 1951
Setna and Saranghdar, 1950a.
Southwell and Prashad, 1919.

Fam. SPHYRNIDAE

Sphyrna blochii (Cuvier)
Alcock, 1890.
Jones, 1951.
Setna and Saranghdar, 1950a,
1950b.

Sphyrna spp.
Chidambaram and Menon, 1946b.
Devanesan and Chidambaram, 1948.
Jones, 1951.

Fam. RHINOBATIDAE

Rhinobatus annandalei (Norman)
Day, 1889.
Jones, 1951.
Southwell and Prashad, 1919.

Rhinobatus granulatus (Cuvier)
Aiyar, 1942.
Aiyar and Mahadevan, 1939.
Jones, 1951.
Prasad, 1942, 1946, 1951.
Samuel, 1943.

Rhinobatus obtusus (Muller and
Jones, 1951. Henle)
Melouk, 1949.

Rhinobatus thouiniana (Shaw)
Aiyar and Mahadevan, 1939.
Jones, 1951.

Rhinobatus djiddensis (Forsk.)
Day, 1889.
Jones, 1951.
Melouk, 1949.
Prasad, 1951.
Setna and Saranghdar, 1949a,
1949b, 1950a.

Fam. PRISTIDAE

Hemipristis elongatus (Klunzinger)
Setna and Saranghdar, 1950b.

Pristis cuspidatus Latham
Aiyar, 1942.
Aiyar and Mahadevan, 1939.
Hussakof, 1912.
Jones, 1951.
Prasad, 1951
Setna and Saranghdar, 1950a.
Southwell, 1910

Pristis spp.
Chidambaram and Menon, 1946b.
Devanesan and Chidambaram, 1948.
Jones, 1951.

Fam. TRYGONIDAE.

Dasyatis (Amphotistius) imbricata
Jones, 1951. (Schneider)
Jones and Sujansingani, 1954.
Setna and Saranghdar, 1950a.

Dasyatis (Amphotistius) Kuhlii (Muller
Jones, 1951. and Henle)
Raj, 1914.
Southwell and Prashad, 1919.

Dasyatis (Amphotistius) zugei (Muller
Jones, 1951 and Henle)
Setna and Saranghdar, 1950a.

Dasyatis (Himantura) bleekeri (Blyth)
Alcock, 1890, 1892a.
Jones, 1951.
Setna and Saranghdar, 1950a.

Dasyatis (Himantura) Uarnak (Forsk.)
Anonymus, 1949.
Day, 1889.
Jones, 1951.
Prasad, 1946.
Southwell and Prashad, 1919.

Dasyatis (Pastinachus) sephen (Forsk.)
Anonymous, 1949.
Jones, 1951.
Jones and Sujansingani, 1954.
Southwell and Prashad, 1919.

Gymnura (Gymnura) micrura=
Pteroplatea micrura (Bloch and
Alcock, 1892b. Schneider)
Anonymous, 1949.
Day, 1889.
Jones, 1951.
Wood-Mason and Alcock, 1891.

Gymnura (Gymnura) poecilura (Shaw)
Jones, 1951.

Gymnura (Gymnura) poecilura (Contd.)
Setna and Saranghdar, 1950a.
Southwell and Prashad, 1919.

Fam. MYLIOBATIDAE

Aetobatus narinari (Euphrasen)
Gudger, 1912.
Jones, 1951.
Smith, 1949.

Aetomylaeus nichofii (Schneider)
Alcock, 1890.
Jones, 1951.
Southwell and Prashad, 1919.

Fam. RHINOPTERIDAE

Rhinoptera javanica (Mull. & Henle)
James, 1962.
Jones, 1951.
Setna and Saranghdar, 1950a.

Fam. MOBULIDAE

Mobula diabolus (Shaw)
Jones, 1951.
Setna and Saranghdar, 1950a, 1950b.

Fam. TORPEDINIDAE

Marcine brunnea Annandale
Prasad, 1946.

Narcine dipterygia (Bl. & Schn.)
Aiyar and Mahadevan, 1939.
Jones, 1951.

Narcine indica Henle
Aiyar and Mahadevan, 1939.
Jones, 1951.
Prashad, 1920.

Narcine timlei (Bloch and Schneider)
Aiyar and Mahadevan, 1939.
Jones, 1951.

Fam. CHIMAERIDAE

? *Chimaera monstrosa* (Linnaeus)
Alcock, 1892c.
Jones, 1951.
Wood-Manson and Alcock, 1891.

Fam. RHINCHIMAERIDAE

Harriotta? indica (Garman)
Dean, 1906.
Jones, 1951.
Wood-Mason and Alcock, 1891.

? *Harriotta Pinnata* Schnack
Balakrishnan, 1963b.

Rhinochimaera sp.
Jones, 1951.
Sewell, 1912.

Fam. ELOPIDAE

Elops saurus Linnaeus = *E. Indicus*
Alikunhi *et al.*, 1952. Swainson
Alikunhi and Rao, 1951b.
Basheeruddin and Nayar, 1962.
Chacko, 1949a, 1951d, 1956.
Chacko *et al.* 1953
Chacko and Ganapati, 1949c.
Delsaman, 1926f.
Ganapati *et al.*, 1950.
Gopinath, 1946b.
Jones, 1946a, 1950b, 1951.
Jones and Sujansingani, 1954.
Kuthalingam, 1958.
Nair, R.V. 1946b. 1952.
Panikkar and Nair, 1945.
Raj, 1916.

Fam. MEGALOPIDAE

Megalops cyprinoides (Broussonet)
Alikunhi, 1957b.
Alikunhi *et al.*, 1952.
Alikunhi and Rao, 1951b.
Balakrishnan, 1959.
Bal and Pradhan, 1945b, 1951.
Bapat and Bal. 1950a.
Chacko, 1949a, 1951d, 1956.
Chacko *et al.*, 1953.
Chacko and Ganapati, 1949c.
Chidambaram and Menon, 1948.
Delsman, 1926f.
Delsman and Hardenberg, 1934.
Devanesan and Chidambaram, 1948.
Ganapati *et al.*, 1950.
Gopinath, 1946b.
Hollister, 1939.
Jones, 1946a, 1950b, 1951.
Jones and Sujansingani, 1954.

Megalops cyprinoides (Contd.)

- Kuthalingam, 1958.
Panikkar and Aiyar, 1939.
Raj, 1916.
Rao, N. G. S., 1967.
Thomas, 1870,
Van Kampen, 1908.
Weber and de Beaufort, 1913.

Fam. ALBULIDAE

Albula vulpes (Linnaeus)

- Alexander, 1961.
Delsman, 1926f.
Delsman and Hardenberg, 1934.
Gopinath, 1946b.
Jones, 1951.
Weber and de Beaufort, 1913.

Fam. DUSSUMIERIDAE

Dussumieria acuta Valenciennes

- Delsman and Hardenberg, 1934.
Devanesan and Chidambaram, 1948.
Jones, 1951.
Kuthalingam, 1959c., 1961b.
Sekharan, 1949.

Dussumieria hasselti Bleeker

- Bal and Pradhan, 1945b, 1947,
1951.
Bapat and Bal, 1950.
Bhasheeruddin and Nayyar, 1962.
Chacko, 1950c.
Delsman, 1925.
Devanesan and Chacko, 1944a.
Devanesan and Chidambaram, 1948.
Dharmamba, 1960.
Gopinath, 1946b.
Jones, 1951.
Mahadevan and Chacko, 1962.

Dussumieria spp.

- Bapat, 1955.
Boonprakob, 1963.

Fam. CLUPEIDAE

Harengula bulan (Bleeker)

- Sadasivan, 1953.

Harengula punctata (Ruppel)

- Bapat and Bal, 1950.
Jones, 1951.

Harengula vittata (Valenciennes)

- Bal and Pradhan, 1945b, 1946.
Jones, 1951.

Hilsa ilisha (Hamilton)

- Chacko, 1951d, 1954b.
Chacko and Ganapati, 1949b.
Chacko, Ganapati and Zobairi, 1948.
Chacko and George, 1953.
Chacko and Krishnamurthy, 1948, 1950a.
Chacko and Zobairi, 1948.
Chacko, Zobairi and Krishnamurthy,
1948.
Chandra, 1964.
Day, 1873, 1876-1888, 1877.
Delsman, 1929c.
Devanesan, 1939, 1942.
Devanesan and Chidambaram, 1948.
Dixitulu and Chacko, 1962.
Dutt, 1966.
Hora, 1938, 1940, 1942.
Hora and Nair, 1940a, 1940b.
Jenkins, 1910, 1938.
Job, 1942.
Jones, 1946a, 1950b, 1951, 1952.
Jones and Menon, 1950b, 1951a.
Jones and Sarojini, 1952.
Jones and Sujansingani, 1951, 1954.
Karamchandani, 1961.
Kulkarni, 1950.
Majumdar, 1939.
Mathur, 1967.
Motwani, Jhingran and Karamchan-
dani, 1957.
Naidu, 1939.
Nair, K.K., 1939.
Panikkar, 1955.
Pillay, 1957, 1958, 1964.
Pillay and Ghosh, 1958.
Pillay and Rao, 1963.
Pillay, Rao, and Mathur, 1963.
Pillay and Shaw, 1949.
Prasad, Hora and Nair, 1940.
Raj, 1917, 1930, 1930.
Rao, N. G. S., 1967.
Southwell, 1915, 1917.
Srinivasan, 1955.
Sujansingani, 1957.
Swarup, 1959, 1962.
Wilson, 1908.

Hilsa kanagurta (Bleeker)

- Chacko and Krishnamurthy, 1949.
Delsman, 1926c.
Jones, 1951.

- Hilsa toli* (Valenciennes)
Bal and Pradhan, 1947, 1951.
Bapat and Bal, 1950b.
Chacko and Krishnamurthy, 1949.
Delsman, 1933c.
Jones, 1951
Pillai, 1953a.
- Ilisha elongata* (Bennet)
Bapat and Bal, 1950.
Delsman 1930.
Delsman and Hardenberg, 1934.
Jones, 1950b, 1951.
Uchida *et al.*, 1958.
- Ilisha filigera* (Valenciennes)
Bapat and Bal, 1950.
Jones, 1951.
- Ilisha Indica* (Swainson)
Basheerudhin and Nayar, 1962.
- Ilisha melastoma* (Cuvier)
Jones, 1951.
- Ilisha motius* (Hamilton)
Bal and Pradhan, 1945b, 1946,
1947, 1951.
Bapat and Bal, 1950.
Jones, 1951.
- Kowala coval (Cuvier) = *K. thoracata* (Valenciennes) = *Clupea lile* (Cuvier)
Anonymous, 1949.
Bal and Pradhan, 1945b, 1946,
1947, 1951.
Bapat and Bal, 1950b.
Delsman, 1933b.
Delsman and Hardenberg, 1934.
Devanesan and Chidambaram, 1948.
Devanesan and John, 1941.
Jones, 1951.
Mookerjee and Bhattacharya, 1950.
Nair, R.V. 1952a.
- Opisthopterus tardoore* (Cuvier)
Basheerudhin and Nayar, 1962.
Bensam, 1968c.
John, 1951.
Jones, 1951.
Radhakrishnan, 1961, 1967.
- Pellona ditchela* Valenciennes =
P. hoevenii (Bleeker)
Delsman, 1930a.
Delsman and Hardenberg, 1934.
- Sadasivan, 1953.
Sekharan, 1950.
- Pellona megaloptera* (Swainson)
Bal and Pradhan, 1951.
- Pellona* spp.
Delsman, 1929c.
Jones, 1951.
- Raconda russelliana* Gray
Varghese, 1962.
- Sardinella albella* (Valenciennes) =
Pellona brachysoma = *Ilisha brachysoma* (Bleeker)
Bal and Pradhan, 1945b, 1946, 1951.
Bapat and Bal, 1950b.
Chacko, 1950c.
Chacko and Mathew, 1956b.
Delsman, 1926c.
John, 1939.
Jones, 1951.
Nair, R.V., 1960a.
Radhakrishnan, 1961.
Sekharan, 1955, 1967.
- Sardinella clupeoides* (Bleeker)
Delsman, 1926c.
- Sardinella fimbriata* (Valenciennes)
Bapat, 1955.
Basheeruddin and Nayar, 1962.
Chacko, 1954a.
Delsman, 1926c.
Delsman and Hardenberg, 1934.
Jones, 1951.
Nair, R.V. 1960a.
Radhakrishnan, 1967b.
Ronquillo, 1960.
- Sardinella jussieu* (Lacepede) =
S. gibbosa (Bleeker)
Chacko, 1946a, 1950c.
Dharmamba, 1960.
Ganapati and Rao, 1951.
Jones, 1951.
Nair, R.V. 1960a.
- Sardinella longiceps* Valenciennes
Anonymous, 1949.
Bensam, 1965, 1967, 1968b.
Chacko, 1954a, 1955b.
Chacko and Mathew, 1956a.
Chidambaram, 1950.
Delsman, 1926c.
Devanesan, 1943.
Devanesan and Chidambaram, 1948.

Sardinella longiceps (Contd.)

Dhulkhed, 1964, 1967.
 Hornell and Nayudu, 1923.
 Jones, 1951.
 Kuthalingam, 1959c, 1960b.
 Nair, R.V., 1953, 1958, 1960a,
 1960b.
 Panikkar, 1955.
 Prabhu, 1967.
 Prabhu and Dhulkhed, 1967.
 Radhakrishnan, 1968.
 Raja, 1967.
 Soerjodinoto, 1960.

Sardinella melanura (Cuvier)

Bal and Pradhan, 1951.
 Nair, R.V., 1960a

Sardinella Sirm (Walbaum)

Basheerudhin and Nayar, 1960.
 Chacko and Gnanamekalai, 1963.
 Delsman, 1926c.
 Gnanamekalai, 1964.
 John, 1951.
 Nair, R.V., 1960a
 Ronquillo, 1960.

Sardinella & Clupea spp.

Boonprakob, 1963
 Delsman, 1926c.
 Raju and Ganapati, 1967.

Fam. DOROSOMIDAE

Anodontostoma chacunda=

Dorosoma chacunda (Hamilton)
 Annigeri, 1967.
 Bapat, 1955.
 Basheeruddin and Nayar, 1962.
 Chacko, 1950c, 1954a.
 Delsman, 1926d, 1929c, 1933b.
 Delsman and Hardenberg, 1934.
 Devanesan and Chidambaram, 1941.
 Jones, 1951.
 Rao, M.B., 1965.

Nematalosa nasus =

Dorosoma nasus (Bloch)
 Annigeri, 1967.
 Bapat and Bal, 1950b.
 Chacko, Rajagopal and
 Mohanakrishnan, 1966.
 Delsman, 1926d.
 Jones, 1951.
 Jones and Sujasingani, 1954.

Fam. ENGRAULIDAE

Anchoviella commersonii (Lacepede)

Bal and Pradhan, 1946, 1947, 1951.
 Balakrishnan, 1959.
 Bapat and Bal, 1950b.
 Delsman, 1929c, 1931a.
 Dharmamba, 1960.
 Gopinath, 1946b.
 Jones, 1951.

Anchoviella heterolobus (Ruppel)

Delsman, 1929c, 1931a.
 Delsman and Hardenberg, 1934.
 Devanesan and Varadarajan, 1942.
 Jones, 1951.
 Raju and Ganapati, 1967.
 Sadasivan, 1953.

Anchoviella indica (Van Hasselt)

Bal and Pradhan, 1951.
 Chacko, 1950c.
 Delsman, 1929c, 1931a.
 Jones, 1950b, 1951.
 Jones and Sujasingani, 1954.

Anchoviella pseudoheterolobus (Hardenberg)

Tham, 1965.

Anchoviella tri (Bleeker)

Anonymous, 1949
 Balakrishnan, 1959.
 Bapat and Bal, 1950.
 Delsman, 1931a.
 John, 1951.
 Jones, 1950b, 1951.
 Vijayaraghavan, 1957.

Anchoviella = *Stolephorus* spp.

Bapat, 1955.
 Boonprakob, 1963.
 Chacko, 1954a.
 John, 1951.
 Jones, 1951.
 Kuthalingam, 1958.
 Nair, R.V., 1946b, 1952b, 1952c.
 Panikar and Aiyar, 1939.
 Panikar and Nair, 1945.
 Sudarsan and Rajapandian, 1967.

Coilia borneensis (Bleeker)

Varghese, 1963.

Coilia dussumieri Valenciennes

Bal and Joshi, 1956.
 Delsman, 1932b.
 Delsman and Hardenberg, 1934.

- Coilia dussumieri* (Contd.)
Gadgil, 1967.
Jones, 1950b.
Jones and Menon, 1952.
Palekar and Karandikar, 1953.
- Coilia* sp.
Rao. N.G.S., 1967.
- Setipinna breviceps* (Cantor)
Delsman, 1932a.
Delsman and Hardenberg, 1934.
Jones, 1950b.
- Setipinna godavariensis* Rao
Rao and Joglekar, 1968.
- Setipinna phasa* (Hamilton)=
Engraulis telara (Hamilton)
Chandra, 1964.
Jhingran, 1963.
Jones, 1946a, 1950b, 1951
Mookerjee and Mookerjee, 1950.
Nair, K.K., 1940.
- Setipinna taty* (Valenciennes)
Delsman, 1932a.
- Thrissocles baelama* (Forsk.)
Sadasivan, 1953.
- Thrissocles dussumeiri* (Valenciennes)
Bal and Pradhan, 1951.
Bapat and Bal, 1950b.
Chacko, 1950c.
Dharmamba, 1960.
Jones, 1950b, 1951.
- Thrissocles grayi* (Bleeker)
Delsman, 1929a.
Vijayaraghavan, 1957
- Thrissocles hamiltoni* (Gray)
Bal and Pradhan, 1951.
Jones, 1950b, 1951
Masurekar and Rege, 1960.
Mookerjee and Mookerjee, 1950.
- Thrissocles kammalensis* (Bleeker)
Bal and Pradhan, 1951.
Bapat and Bal, 1950.
Jones, 1950b, 1951.
Rao. N.G.S., 1967.
- Thrissocles mystax* (Schneider)
Basheeruddin and Nayar, 1962.
Delsman, 1929a.
- Dharmamba, 1960.
Ganapati and Rao. 1962.
Gopinath, 1946a, 1946b.
Jones, 1950b, 1951.
Rao. N. G. S., 1967.
Venkatraman, 1956.
- Thrissocles Purava* (Hamilton)
Bal and Pradhan, 1951.
Bapat and Bal, 1950b.
Jones, 1946a, 1950b, 1951.
Palekar and Karandikar, 1952.
Rao. N.G.S., 1967.
- Thrissocles setirostris* (Broussonet)
Basheeruddin and Nayar, 1962.
- Thrissocles & Engraulis* spp.
Bapat, 1955.
Chacko, 1954a.
Delsman, 1929a.
Delsman and Hardenberg, 1934.
John, 1951.
Jones, 1951.
Jones and Sujansingani, 1954.
Nair, R.V., 1952b.
Panikkar and Aiyar, 1939.
Rao. N. G. S., 1967.
- Fam. ALEPOCEPHALIDAE
- Xenodermichthys guentheri* (Alcock)
Alcock, 1892c.
Jones, 1951.
- Fam. CHIROCENTRIDAE
- Chirocentrus dorab* (Forsk.)
Basheeruddin and Nayar, 1962.
Chacko, 1950c.
Delsman, 1922b, 1929c, 1930b.
Delsman and Hardenberg, 1934.
Jones, 1950b, 1951.
*Prabhu, 1953, 1954b, 1956.
- Chirocentrus nudus* Swainson = *C. hypselosoma* Bleeker
Delsman, 1930b.
Delsman and Hardenberg, 1934.
- Fam. CHANIDAE
- Chanos chanos* (Forsk.)
Adams, Montalban and Martin, 1932.
Alikunhi, 1957b.
- *Hora, 1924.

Chanos chanos (Contd.)

- Balanco and Villadolid, 1939.
 Carbine, 1948.
 Chacko, 1942, 1949a, 1950c.
 1954c. 1955a, 1956.
 Chacko, Abraham and Andal, 1953.
 Chacko and Ganapati, 1949a. 1949e.
 Chacko and Mahadevan, 1956.
 Chacko and Thomas, 1962.
 Chidambaram, 1949.
 Chidambaram and Unny, 1946.
 Delsman, 1926f, 1929b, 1929c.
 Delsman and Hardenberg, 1934.
 Devanesan and Chacko, 1944b.
 Durve and George, 1967.
 Frey, 1947.
 Ganapati and Chacko, 1950.
 Ganapati, Chacko, Srinivasan
 and Krishnamurthi, 1950.
 Herre, 1937.
 Herre and Mendoza, 1929.
 Job, 1959.
 Job and Chacko, 1947b.
 Jones, 1950b, 1951.
 Jones and Sarojini, 1952.
 Mammen, 1957.
 Mohapatra, 1966.
 Panikkar, Tampi and Viswanathan,
 1952, 1953.
 Rabanal, 1951.
 Schuster, 1949a, 1952.
 Sunier, 1922.
 Tampi, 1958a, 1958b.

Fam. SALMONIDAE

Salmo fario= *S. trutta fario*

- Ahmad, 1942. Linnaeus
 Chacko and Ganapati, 1952.
 Dhu, 1906, 1918.
 Jones, 1946a, 1950b.
 Mackay, 1944, 1945a, 1945b,
 1945c.
 Tyson, 1941.

Salmo gairdneri Richardson

- Fowke, 1938.
 Howell, 1916.
 Jones, 1946a, 1950b.
 Jones and Sarojini, 1952.
 Mackay, 1944, 1945a, 1945b.
 Molesworth and Bryant, 1921.

Fam. STOMIATIDAE

Stomias spp.

- Weber, 1913.
 Weber and de Beaufort, 1913

Fam. IDIACANTHIDAE

Idiacanthus fasciola Peters

- Balasubrahmanyam, 1968.
 Yabe, 1953a.

Fam. NOTOPTERIDAE

Notopterus chitala (Hamilton)

- Alikunhi, 1957b.
 Job, David and Das, 1955.
 Jones, 1946a, 1950b.
 Mookerjee, 1946a.
 Southwell, 1917.
 Southwell and Prashad, 1919.

Notopterus notopterus (Pallas)

- Chacko, 1951d, 1956.
 Jones, 1946a, 1950b.
 Mookerjee, 1946a.
 Mookerjee and Mazumdar, 1946a.
 Rao, C. N. R., 1919.

Fam. SYNODIDAE

Harpodon nehereus (Hamilton)

- Bapat, 1967.
 Bapat, Banerjee and Bal, 1952.
 Delsman, 1929c.
 Delsman and Hardenberg, 1934.
 Hora, 1938.
 Jones, 1951.
 Pillay, 1948b.
 Raj, 1955.

Saurida gracilis (Quoy and Gaimard)

- Jones, 1951.
 Weber and de Beaufort, 1913.

Saurida tumbil (Bloch)

- Annigeri, 1967.
 Basheerudhin and Nayar, 1962.
 Delsman, 1929c.
 Delsman and Hardenberg, 1934.
 Gopinath, 1946b.
 Jones, 1951.
 Kuthalingam, 1959c, 1959d.

- Saurida tumbil* (Contd.)
Mito, 1961.
Tagawa and Mako, 1965
Vijayaraghavan, 1957.
- Saurida* spp.
Jones, 1951.
Kuthalingam, 1958.
Raju and Ganapati, 1967.
- Saurus* sp.
Bapat, 1955.
- Synodus indicus* (Day)
Gopinath, 1946b.
Jones, 1951.
- Synodus variegatus* (Lacepede)=
S. synodus Bleeker
Jones, 1951.
Mito, 1961.
Regan, 1916.
Weber and de Beaufort, 1913.
- Synodus* spp.
Jones, 1951.
Nair, R.V., 1952a.
- Trachynocephalus myops* (Bloch and
Gopinath, 1946b. Schneider)
Jones, 1951.
Mito, 1961, 1967.
- Fam. SCOPELIDAE
- Myctophum* spp.
Bal and Pradhan, 1945b, 1951.
Delsman, 1938.
Jones, 1951.
Mito, 1961.
Raju and Ganapati, 1967.
Regan, 1916.
Yabe, 1953a.
- Fam. CYPRINIDAE
- Amblypharyngodon melettina* (Valen-
Deraniyagala, 1930b. ciennes)
Jones, 1950b.
Willey, 1910.
- Amblypharyngodon microlepis* (Bleeker)
Jones, 1946a, 1950b.
Raj, 1916.
- Amblypharyngodon mola* (Hamilton)
Jones, 1950b
Mookerjee and Basu, 1946.
- Aristichthys nobilis* (Richardson)
Alikunhi and Sukumaran, 1964.
- Barbus (Lissochilus) hexagonolepis*
Ahmad, 1946, 1948a, McClelland
Alikunhi, 1948a, 1957b.
Chacko, Kuriyan and Thygarajan, 1955.
Chacko and Kuriyan, 1949.
Hora and Nair, K.K., 1943a.
Jones, 1950b.
Smith, 1945.
Smith, 1944.
- Barbus (Puntius) ambassis* Day
Jones, 1946a, 1950b.
Spence and Prater, 1932.
- Barbus (Puntius) amphibius* (Valenciennes)
Chacko, 1951c.
Jones, 1946a, 1950b.
Raj, 1916.
Thomas, 1870.
- Barbus (Puntius) carnaticus* Jerdon
Alikunhi, 1957b.
Chacko, 1951d, 1956.
Chacko and Kuriyan, 1949b.
Day, 1876-1888.
Jones, 1946a, 1950b.
- Barbus (Puntius) chola* (Hamilton)
Jones, 1946a, 1950b.
Stoye, 1935.
- Barbus (Puntius) conchoniensis* (Hamilton)
Baake, 1930d.
Innes, 1935.
Jones, 1946a, 1950b.
Mellen and Lanier, 1935.
Mookerjee, 1946a.
Mookerjee and Ghose, 1945.
Stoye, 1935.
- Barbus (Puntius) curmuca* (Hamilton)
Abraham, 1964.
Chacko, 1950b, 1951d, 1956.
Jones, 1950b.
Raj, 1958.
- Barbus (Puntius) dorsalis* Jerdon
Deraniyagala, 1930b.
Jones, 1946a, 1950b.
Raj, 1916.
Willey, 1910.
- Barbus (Puntius) dubius* Day
Alikunhi, 1957b.
Chacko, 1951d.

- Barbus (Puntius) dubius* (Contd.)
Chacko *et al.*, 1955.
Choodamani and Thygarajan, 1959.
Menon, and Radha, 1964.
- Barbus (Puntius) filamentosus* (Val.) =
B. (P.) machecola (Valenciennes)
Deraniyagala, 1930b.
Jones, 1946a, 1950b.
Spence and Prater, 1932.
- Barbus (Puntius) gelius* (Hamilton)
Innes, 1935.
Jones, 1946a, 1950b.
Stoye, 1935.
- Barbus (Puntius) kolus* Sykes
Bhatnagar, 1967a.
Jones, 1950b.
Suter, 1942.
- Barbus (Puntius) lateristriga* (Val.)
Jones, 1946a, 1950b.
Mellen and Lanier, 1935.
Stoye, 1935.
- Barbus (Puntius) melanampyx* Day
Ganapati and Chacko, 1951b.
Jones, 1946a, 1950b.
- Barbus (Puntius) phutunio* (Hamilton)
Innes, 1935.
Jones, 1946a, 1950b.
Stoye, 1935.
- Barbus (Puntius) sahyadriensis* Silas
Silas, 1953.
- Barbus (Puntius) sarana* (Hamilton)
B. (P.) chrysopoma Valenciennes
Alikunhi, 1957b.
Chacko, 1956.
Chacko and Krishnamurthy, 1950b.
Chaudhuri, 1962b.
Day, 1876-1888.
Deraniyagala, 1930b.
Job, *et al.*, 1955.
Jones, 1946a, 1950b.
Khan, 1934.
Mookerjee, 1943.
Prashad and Mookerjee, 1930.
Quasim and Qayyum, 1962.
Raj, *et al.*, 1945.
- Barbus (Puntius) Stigma* (Val.)
Day, 1876-1888.
Ganapati and Chacko, 1951a.
Jones, 1946a, 1950b.
Kulshrestha and Majupuria, 1957.
Mookerjee *et al.*, 1952.
Mookerjee *et al.*, 1941.
Panikkar and Aiyar, 1939.
Qasim, 1966.
Qayyum and Qasim, 1964.
Raj, 1916.
Sathynesan, 1961, 1964.
- Barbus (Puntius) terio* (Hamilton)
Innes, 1935.
Jones, 1946a, 1950b.
- Barbus (Puntius) ticto* (Hamilton) =
B. (P.) stoliczkanus (Day)
Fraser, 1937.
Ibrahim, 1957.
Innes, 1935.
Jones, 1946a, 1950b.
Khan, 1938a.
Mellen and Lanier, 1935.
Stoye, 1935.
- Barbus (Puntius) titteya* Deraniyagala
Deraniyagala, 1930b.
Jones, 1946a, 1950b.
- Barbus (Puntius) vittatus* Day
Day, 1876-1888.
Ibrahim, 1957.
Innes, 1935.
Jones, 1946a, 1950b.
Stoye, 1935.
- Barbus (Puntius) spp.*
Chacko and George, 1953.
Raj, *et al.*, 1945.
- Barbus (Tor) khudree* Sykes
Lovatt, 1956.
- Barbus (Tor) mosal* var. *mahanadicus*
Job *et al.*, 1955. David
- Barbus (Tor) putitora* (Hamilton)
Edye, 1923.
Jones, 1946a, 1950b.
Jones and Sarojini, 1952.

- Barbus (Tor) putitora* (Contd.)
Quasim and Qayyum, 1962.
Raj, 1945.
Raj, *et al.*, 1945.
- Barbus (Tor) tor* (Hamilton)
Deraniyagala, 1930b.
Devanesan and Chidambaram, 1948.
Jones, 1946a, 1950b.
Khan, 1923a, 1924a, 1934, 1939b.
Nevill, 1915.
Thomas, 1897.
- Barilius auropurpureus* Annandale
Annandale, 1918.
- Barilius barila* Hamilton
Desai and Karamchandani, 1968.
- Barilius bendelisis* (Hamilton)
Chacko and Venkataraman, 1945.
Day, 1877.
Fraser, 1937.
Jones, 1946a, 1950b.
- Barilius bendelisis* var. *chedra*
Desai and Karamchandani, 1968. Hamilton
- Barilius gatensis* (Valenciennes)
Jones, 1946a, 1950b.
- Barilius vagra* Hamilton
Sehgal, 1961.
- Brachydanio albolineatus* (Blyth)
Baake, 1930b.
Jones, 1946a, 1950b.
Mellen and Lanier, 1935.
Stoye, 1935.
- Brachydanio nigrofasciatus* Day
Innes, 1935.
Jones, 1946a, 1950b.
Mellen and Lanier, 1935.
- Brachydanio rerio* (Hamilton)
Innes, 1935.
Jones, 1946a, 1950b.
Mellen and Lanier, 1935.
- Carassius auratus* (Linnaeus)
Basu, 1951c.
Chacko and Ganapati, 1949a.
Jones, 1946a, 1950b.
Khan, 1929.
Mellen and Lanier, 1935.
- Carassius carassius* (Linnaeus)
Chacko, 1951d.
- Ganapati and Chacko, 1951b.
Jones and Sarojini, 1952.
- Carps
- Alikunhi, 1957a, 1958.
Alikunhi, Chaudhuri and Ramachandran, 1951, 1955.
Alikunhi, *et al.*, 1964.
Alikunhi and Jhingran, 1951.
Basu, 1951a, 1951b, 1952b, 1952c.
Beaven, 1877.
Chaudhuri, 1959, 1963, 1964.
Chaudhuri and Alikunhi, 1957.
Chaudhuri *et al.*, 1962.
David, 1954, 1960.
Devasundaram, 1947.
Ganapati, Alikunhi and Zobairi, 1947.
Ganapati and Chacko, 1954.
Gopalakrishnan, Pal and Chakraborty, 1966.
Hora, 1944, 1945a.
Hussain, 1945.
Ibrahim, 1963.
Karamchandani, 1957.
Khan and Hussain, 1947b, 1947c.
Khan, 1959.
Khanna, 1958.
Mitra, 1956, 1957, 1958.
Mitra and Das, 1968.
Mitra and Mohapatra, 1953.
Mookerjee, 1945a, 1945b.
Mookerjee, Ganguly and Mitra, 1952.
Rahimullah, 1948.
Raj and Cornelius, 1948.
Rajan and Rao, 1965.
Ranade and Kevalramani, 1956.
Roy and Das, 1962.
Saha *et al.*, 1967.
Saha *et al.*, 1957.
Saha, Sen and Mazumdar, 1956a, 1956b.
Saha and Chowdhury, 1956.
Saha and Sen, 1958.
Sarbah, 1964.
Srinivasan, Chacko and Valsan, 1955.
Srivastava and Karamchandani, 1967.
- Catla catla* (Hamilton)
Ahmad, 1948b, 1948c, 1955.
Alikunhi, 1957b.
Alikunhi, *et al.*, 1964.
Badami and David, 1964.
Basu, 1950a, 1950b, 1951c, 1952a.
Chacko, 1951d, 1956.
Chacko and Ganapati, 1950b.
Chacko and George, 1953.

Catla catla (Contd.)

Chacko and Kuriyan, 1948b, 1949.
 Chauhan and Ramakrishnan, 1959.
 Das, B.B., 1917.
 Das, B.C., 1959, 1961.
 Das and Gupta, 1945.
 De, 1936.
 Devanesan and Chidambaram, 1948.
 Dubey and Tuli, 1961.
 Ganapati and Alikunhi, 1948a.
 Government of Madras, 1956.
 Gravely, 1931.
 Hornell, 1922b.
 Jagannadhan, 1947.
 Jhingran, 1966.
 Job and Chacko, 1947a.
 Job *et al.*, 1955.
 Jones, 1946a, 1950b.
 Jones and Sarojini, 1952.
 Karamchandani, and Pisolkar, 1968.
 Khan, 1923a, 1924a, 1934, 1942.
 Mammen and Sulochanan, 1962.
 Mitchell, 1875.
 Mitra, 1942.
 Mitra and Das, 1957.
 Mookerjee, 1943, 1946a.
 Mookerjee, *et al.*, 1946.
 Mookerjee, *et al.*, 1944a, 1948b.
 Raj, 1948a, 1948b.
 Raj, 1916.
 Raj, *et al.*, 1945.
 Renganathan, *et al.*, 1967.
 Saha, *et al.*, 1968.
 Sengupta, 1966.
 Southwell, 1915, 1917.
 Srinivasan, 1955.
 Upadhyaya, 1956a.

Chela, argentius, Day

Chacko, *et al.*, 1946.

Chela bacaila (Hamilton)

Qasim, and Qayyum, 1962.
 Upadhyaya, 1956a.

Chela, phula (Hamilton)

Alikunhi, and Chaudhuri, 1954.

Chela Untrahi (Day)

Chacko, 1951b, 1951d.

Cirrhina cirrhosa (Bloch)

Alikunhi, 1957b.

Chacko, 1951d, 1956.

Chacko and George, 1953.

Chacko and Kuriyan, 1949.

Chacko *et al.*, 1955.

Cirrhina mrigala (Hamilton)

Ahmad, 1944b, 1948b, 1948c, 1955.

Alikunhi, 1949, 1957b.

Alikunhi *et al.*, 1951.

Alikunhi *et al.*, 1964.

Basu, 1950a, 1950b, 1951c, 1951d, 1952a.

Chacko, 1951d, 1956.

Chacko and Ganapati, 1951.

Chacko and George, 1953.

Chakraborty and Singh, 1967.

Chauhan and Ramakrishnan, 1959.

Das, 1917, 1959, 1961.

Das and Gupta, 1945.

De, 1936.

Dubey and Tuli, 1961.

Husain, 1945.

Job *et al.*, 1955.

Jones, 1946a, 1950b.

Jones and Sarojini, 1952.

Khan, 1923a, 1924a, 1924b, 1926,

1934, 1938b, 1940a, 1942, 1943,
 1945a, 1947.

Lal, 1963.

Mitra and Das, 1957.

Mookerjee, 1946a.

Mookerjee, *et al.*, 1946.

Mookerjee, *et al.*, 1946b.

Qasim, and Qayyum, 1962.

Raj, *et al.*, 1945.

Renganathan, *et al.*, 1967.

Saha, *et al.*, 1968.

Sarkar and Kaushik, 1959.

Sengupta, 1966.

Southwell, 1915, 1917.

Srinivasan, 1955.

Upadhyaya, 1956a, 1956b.

Vijayalakshmanan, *et al.*, 1962.

Cirrhina reba (Hamilton)

Alikunhi, 1957b, 1958.

Alikunhi *et al.*, 1951, 1955, 1967.

Alikunhi *et al.*, 1964.

Alikunhi and Jhingran, 1951.

(Contd.)

- Cirrhina reba* (Contd.)
 Alikunhi and Rao, 1952a.
 Chacko, 1950a, 1951d, 1956.
 Chacko and George, 1953.
 Chacko and Kuriyan, 1949.
 Das, 1958.
 Ganapati and Alikunhi, 1949a.
 Ganapati *et al.*, 1948.
 Job *et al.*, 1955.
 Jones, 1946a, 1950b.
 Khan, 1923a, 1934.
 Mookerjee, 1943.
 Mookerjee, *et al.*, 1966.
 Varghese, 1963, 1967.
- Crassocheilus latia* (Hamilton)
 Das, 1961.
- Crassocheilus latius latius* (Ham.)
 Bhatnagar, 1967b.
- Ctenopharyngodon idellus* Val.
 Alikunhi *et al.*, 1952.
 Alikunhi and Sukumaran, 1964.
 Alikunhi *et al.*, 1963.
 Chaudhuri, *et al.*, 1966.
 Hickling, 1967.
- Cyprinus carpio* Linnaeus
 Alikunhi, 1957b, 1966.
 Alikunhi *et al.*, 1952.
 Chacko, 1951d, 1956.
 Jones and Sarojini, 1952.
 Rabani, 1951.
 Raj and Cornelius, 1948.
 Ramakrishnan and Alikunhi, 1967.
 Tandon, 1965.
- Cyprinus carpio* var. *communis* (Linn.)
 Alikunhi and Rao, 1948b.
 Bhatnagar, 1967b.
 Das and Pati, 1966.
 Jones, 1950b.
 Punwani, 1952.
 Zobairi and Choodamani, 1948.
- Cyprinus carpio* var. *nudus* (Linn.)
 Alikunhi and Rao, 1948b.
 Punwani, 1952.
- Cyprinus carpio* var. *specularis* (Linn.)
 Alikunhi and Rao, 1948b.
 Chacko, 1945.
 Punwani, 1952.
- Danio malabaricus* (Jerdon)
 Jones, 1938a, 1946a, 1950b.
 Mellen and Lanier, 1935.
- Danio neilgherriensis* Day
 Day, 1876-1888.
 Jones, 1946a, 1950b.
- Esomus danricus* (Hamilton) = *Nuria danrica* (Hamilton)
 Deraniyagala, 1930a.
 Ganapati and Chacko, 1951a.
 Innes, 1935.
 Jones, 1946a, 1950b.
 Mellen and Lanier, 1935.
 Raj, *et al.*, 1945.
 Stoye, 1935.
- Garra ceylonensis ceylonensis* (Bleeker)
 Deraniyagala, 1930b.
 Jones, 1938b, 1941, 1946a, 1950b.
- Garra gotyla* (Gray)
 Bhatnagar, 1967b.
- Garra lamta* (Hamilton)
 Ganapati and Alikunhi, 1949a.
 Soni, 1959, 1961.
- Garra mullya* (Sykes)
 Fraser, 1937.
 Jones, 1941b, 1946, 1950b.
- Garra rupeculus* (McClelland)
 Hora, 1921b.
- Gymnocypris waddellii* Regan
 Jones, 1946b, 1950b.
 Stewart, 1911.
- Hypophthalmichthys molitrix* (Val)
 Alikunhi and Sukumaran, 1964.
 Alikunhi, *et al.*, 1963.
 Chaudhuri, *et al.*, 1966.
- Labeo ariza* (Hamilton)
 Chacko, 1951a, 1956.
- Labeo bata* (Hamilton)
 Alikunhi, 1956, 1957b.
 Alikunhi, *et al.*, 1960.
 Alikunhi, *et al.*, 1951.
 Basu, 1950b, 1951c.
 Bhatnagar, 1967b.
 Das, 1961.
 Das and Gupta, 1945.
 Job, *et al.*, 1955.
 Jones, 1946a, 1950b.
 Mookerjee, 1943.
 Mookerjee, *et al.*, 1944a.
 Upadhyaya, 1956a.

- Labeo boga* (Hamilton)
 Alikunhi, et al., 1962.
 Chacko, 1951d, 1956.
 Das, 1961.
 De, 1936.
 Job, et al., 1955.
- Labeo boggut* (Sykes)
 Chacko, 1951d, 1956.
 Job, et al., 1955.
 Misra, 1950.
 Pillay and Shaw, 1949.
- Labeo calbasu* (Hamilton)
 Alikunhi, 1957b.
 Alikunhi, et al., 1949.
 Alikunhi, et al., 1951.
 Alikunhi, et al., 1960.
 Chacko, 1948b, 1951d, 1956.
 Chacko and George, 1953.
 Chacko and Kuriyan, 1949b.
 Das and Mohanty, 1966.
 De, 1936.
 Job, et al., 1955.
 Jones, 1946a, 1950b.
 Khan, 1923a, 1924a, 1934.
 Mitra and Das, 1957.
 Mookerjee, 1943, 1946a.
 Mookerjee and Mazumdar, 1946a.
 Mookerjee, et al., 1944a, 1944b.
 Qasim and Qayyum, 1962.
 Renganathan, et al., 1967.
 Southwell, 1917.
- Labeo dero* (Hamilton)
 Bhatnagar, 1967b.
 Job, et al., 1955.
 Khan, 1934.
- Labeo dyochoilus* (Hamilton)
 Job, et al., 1955.
- Labeo fimbriatus* (Bloch)
 Alikunhi, 1957b.
 Chacko, 1948b, 1951d, 1956.
 Chacko and George, 1953.
 Chacko and Kuriyan, 1949b.
 Ganapati and Alikunhi, 1948a,
 1949a.
 Ganapati et al., 1948.
 Job, et al., 1955.
 Jones, 1946a, 1950b.
- Labeo gonius* (Hamilton)
 Ahmad, 1936, 1944b.
 Jones, 1946a, 1950b.
- Khan, 1923a, 1924b, 1926, 1934.
 Mookerjee, 1943, 1946a.
 Mookerjee and Ganguly, 1949.
 Mookerjee, et al., 1944a.
 Raj, et al., 1945.
- Labeo kontius* Jerdon
 Alikunhi, 1957b.
 Alikunhi and Rao, 1948a.
 Chacko, 1948b, 1951d, 1956.
 Chacko and George, 1953.
 Ganapati and Alikunhi, 1949a.
 Ganapati, et al., 1947.
 Jones, 1946a, 1950b.
- Labeo (Morulius) angra* (Hamilton)
 Ahmad, 1948b, 1948c, 1955.
 Alikunhi, 1947b.
 Alikunhi, et al., 1951.
 Alikunhi, et al., 1964.
 Alikunhi, et al., 1960.
 Basu, 1950a, 1950b, 1951c, 1951d,
 1952a.
 Chacko, 1948b, 1956.
 Chauhan and Ramakrishnan, 1959.
 Das, 1917, 1959, 1961.
 De, 1936.
 Dubey and Tuli, 1961.
 Goldschmidt, 1954.
 Husain, 1945.
 Ibrahim, 1963.
 Jones, 1946a, 1950b.
 Jones and Sarojini, 1952.
 Khan, 1923a, 1924a, 1924b, 1934,
 1942, 1945a, 1947.
 Mitra, 1942.
 Mitra and Das, 1957.
 Mookerjee, 1943, 1946a.
 Mookerjee, et al., 1946.
 Mookerjee, et al., 1946b.
 Mookerjee, et al., 1944a, 1944b
 Motwani and Bose, 1957.
 Qasim and Qayyum, 1962.
 Raj, et al., 1945.
 Renganathan, et al., 1967.
 Saha, et al., 1968.
 Sarkar and Kaushik, 1959.
 Sengupta, 1966.
 Southwell, 1915.
 Srinivasan, 1955.
 Srivastava and Kulashrestha, 1961.
 Upadhyaya, 1956a, 1956b.
 Vijayalakshmanan et al., 1962.

- Labeo*, spp.
Ganapati and Alikunhi, 1949a
Raj, *et al.*, 1945.
- Laubuca dadiburjori* (Menon)
Padmanabhan, 1959.
- Laubuca laubuca* (Hamilton)
Ganapati and Chacko, 1951a.
- Mylopharyngodon piceus* (Richardson)
Alikunhi and Sukumaran, 1964.
- Mystacoleucus ogilbii* (Sykes)
Jones, 1950b.
Rahimullah, 1944.
- Osteochilus (Osteochilichthys) thomasii* (Day)
Alikunhi, 1957b.
Chacko, 1951d, 1956.
Chacko and Kuriyan, 1948b.
Chacko, *et al.*, 1947.
Ganapati and Alikunhi, 1948a.
Jones, 1946a, 1950b.
Spurgeon, 1948a.
- Osteochilus* sp.
Ganapati and Alikunhi, 1948a.
- Oxygaster gora* (Hamilton)
Sehgal, 1961
Sehgal and Singh, 1962.
- Rasbora daniconius* (Hamilton)
Alikunhi and Rao, 1948.
Innes, 1935.
Jones, 1946a, 1950b.
Mellen and Lanier, 1935.
Raj, 1916.
Stoye, 1935.
- Rasbora elanga* (Hamilton)
Chaudhuri, 1962a.
- Rasbora labiosa* (Mukerjee).
Fraser, 1937.
Jones, 1946a, 1950b.
- Rasbora maculata* (Bleeker)
Jones, 1946a, 1950b.
Mellen and Lanier, 1935.
- Rasbora rasbora* (Hamilton)=
R. buchanaani Day
Jones, 1946a, 1950b.
Raj *et al.*, 1945.
Thomas, 1870.
- Rasbora taeniata* Ahl.
Innes, 1935.
Jones, 1946a, 1950b.
- Schizothorax plagiostoma* Heckel
Bhatnagar, 1967b.
- Thynnichthys sandkhol* (Sykes)
Alikunhi, 1957b.
Chacko, 1951d, 1956.
Chacko and Ganapati, 1950a.
Ganapati and Alikunhi, 1949a.
Moghe, 1941.
- Tinca tinca* (Bloch)
Alikunhi, 1957b.
Alikunhi and Renganathan, 1947.
Jones, 1950b.
Jones and Sarojini, 1952.
- Fam. COBITIDAE
- Botia dayi* Hora
David, 1961.
- Botia qeto* (Hamilton)
Jones, 1946a, 1950b.
- Lepidocephalus thermalis* (Val.)
Bhimachar and David, 1945.
Day, 1876-1888.
Deraniyagala, 1930b.
Ganapati and Chacko, 1951a.
Jones, 1946a, 1950b.
Raj, 1916.
- Nemachilus notostigma* Bleeker
Jones, 1946a, 1950b.
- Nemachilus zonatus* (McClelland)
Das and Moitra, 1957c.
Day, 1876-1888.
Jones, 1946a, 1950b.
- Fam. TACHYSURIDAE
- Osteiogeneiosus militaris* (Linnaeus)
Deraniyagala, 1930-1932c.
Jenkins, 1910.
Jones, 1946a, 1950b.
Jones and Sujansingani, 1954.
Pantulu, 1963.
- Tachysurus Dussumieri* (Valenciennes)
Jones, 1951.
- Tachysurus falcarius* Richardson
Jones, 1946a, 1950b.
Pertwee, 1913.
Raj, 1916.
Willey, 1910.

Tachysurus jatius (Hamilton)
Jenkins, 1910.
Jones, 1946a, 1950b.

Tachysurus Jella Day
Chidambaram, 1941.
Devanesan and Chidambaram, 1948.
Jones, 1946a, 1950b.
Thiyagarajan, 1942.

Tachysurus sagor (Hamilton)
Delsman and Hardenberg, 1934.
Jones, 1951.

Tachysurus sona (Hamilton)
Day, 1889.
Jones, 1946a, 1950b.
Singh, 1965.

Tachysurus thalassinus (Ruppel)
Jones, 1951.

Tachysurus = Arius spp.
Chacko, 1954a.
Jones and Sujansingani, 1954.

Fam. PLOTOSIDAE

Plotosus anguillaris (Bloch)
John, 1951
Jones, 1951.

Plotosus canius Hamilton
Basheeruddin and Nayar, 1962.
Chaudhuri, 1916.
Jones and Sujansingani, 1954.

Fam. SILURIDAE

Ompok bimaculatus, (Bloch)
Chaudhuri, 1962c.
Deraniyagala, 1930- 1932c.
Job *et al.*, 1955.
Jones, 1946a, 1950b.
Qasim, 1966.
Qayyum and Qasim, 1964.
Rao. C.N.R., 1919.

Ompok pabda (Hamilton)
Qasim and Qayyum, 1962.
Qayyum and Qasim, 1961.

Ompok sp.
Das, 1959.

Wallago (= Wallagonia) attu (Schneider)
Ahmad, 1934, 1944a, 1944b.
Alikunhi, 1948b.
Chacko, 1948b.
Das, 1965.
Job and Chacko, 1947.
Job *et al.*, 1955.
Jones, 1946a, 1950b.
Kapoor, 1962.
Khan, 1924a, 1924b, 1926, 1934.
Mazumdar, 1952, 1957.
Mookerjee, 1946a, 1946b.
Qasim and Qayyum, 1962.

Wallago sp.
Das, 1959.
Hora and Mookerjee, 1938.

Fam. BAGRIDAE

Gagata cenia (Hamilton)
Day, 1876-1888.
Jones, 1946a, 1950b.
Karamchandani and Desai, 1966.
Karamchandani and Motwani, 1956.

Gagata itchkeea (Sykes)
Karamchandani and Desai, 1966.

Mystus aor (Hamilton)
Job *et al.*, 1955.
Jones, 1946a, 1950b.
Raj, 1962.
Renganathan, 1964.
Renganathan and Radha, 1966.
Saigal, 1967.

Mystus, bleekeri (Day)
Bhatnagar, 1967b.
Das, 1965.

Mystus cavasius (Hamilton)
Qasim and Qayyum, 1962.

Mystus gulio (Hamilton)
Eggert, 1930.
Jones, 1946a, 1950b.
Mookerjee *et al.*, 1940.

Mystus seenghala (Sykes)
Alikunhi, 1957b.
Bhatnagar, 1967b.
Chacko, 1951d, 1956.
Job *et al.*, 1955.

- Mystus seenghala* (Contd.)
 Jones, 1946a, 1950b.
 Khan, 1934.
 Raj, 1962.
 Saigal and Motwani, 1962.
 Sathyanesan, 1962.
- Mystus vittatus* (Bloch)
 Das and Moitra, 1957a.
 Jones, 1946a, 1950b.
 Prabhu, 1954b, 1956.
 Qasim and Qayyum, 1962.
 Qayyum and Qasim, 1961.
- Mystus*, spp.
 Das, 1959.
- Rita chrysea* Day
 Job *et al.*, 1955.
- Rita, rita* (Hamilton)
 Das, 1965.
 Khan, 1934.
 Karamchandani and Motwani, 1955.
- Rita*, sp.
 Srinivasachar, 1957a.
- Fam. SISORIDAE
- Bagarius bagarius* (Hamilton)
 Das and Moitra, 1957b.
 David, 1962
 Job *et al.*, 1955.
 Karamchandani and Desai, 1966.
 Qasim and Qayyum, 1962.
- Bagarius* spp.
 Das, 1959.
 Ganapati and Alikunhi, 1949a.
- Sisor rhabdophorus* (Hamilton)
 Day, 1889.
 Jones, 1946a, 1950b.
- Fam. SCHILBEIDAE
- Ailia coilia* (Hamilton)
 Karamchandani and Motwani, 1956.
 Srinivasachar, 1956.
- Ailichthys punctata* Day
 Karamchandani and Motwani, 1956.
- Clupisoma garua* (Hamilton)
 Job *et al.*, 1955.
 Karamchandani and Motwani, 1956.
- Clupisoma montana* (Jerdon)
 Bhatnagar, 1967b.
- Eutropichthys vacha* (Hamilton)
 Qasim and Qayyum, 1962.
- Eutropichthys* sp.
 Das, 1959.
- Pangasius pangasius* (Hamilton)
 Alikunhi, 1948b.
 David., 1967.
 Job *et al.*, 1955.
 Srinivasachar, 1956
- Silonia silondia* (Hamilton)=
Silundia gangetica Cuv. & Val.
 Job *et al.*, 1955.
 Karamchandani and Desai, 1966.
 Karamchandani and Motwani, 1956.
 Mookerjee *et al.*, 1955.
 Srinivasachar, 1951.
- Fam. HETEROPNEUSTIDAE
- Heteropneustes fossilis* (Bloch)
 Alikunhi, 1957b.
 Day, 1876-1888.
 Deraniyagala, 1930-1932c.
 Ghosh and Kar, 1952.
 Jones, 1946a, 1950b.
 Qasim and Qayyum, 1962.
 Srinivasachar, 1951b, 1953
- Heteropneustes* spp.
 Das, 1959.
 Ramaswamy, 1958
 Sundararaj and Ramaswamy, 1956
- Fam. CLARIIDAE
- Clarius batrachus* (Linnaeus)
 Alikunhi, 1957b.
 Mookerjee and Mazumdar, 1950.
 Srinivasachar, 1959.
- Clarias teysmanni* Bleeker
 Deraniyagala, 1930-1932c.
 Jones, 1946a, 1950b.
- Clarias* sp.
 Das, 1959.
 Ramaswami, 1958.

Fam. ANGUILLIDAE

Anguilla japonica Temm. & Schl.
Mookerjee, *et al.*, 1952.

Anguilla nebulosa McClelland = *A. Bengalensis* (Gray and Hardwicke) =
A. elphinstonei Sykes
Ibrahim, 1961.
Jones, 1950b.
Pantulu, 1956.
Rahimullah *et al.*, 1944.

Anguilla sp.
Delsman, 1933a.
Mito, 1961.

Fam. MURAENIDAE

Muraena macrura (Bleeker)
Pantulu and Jones, 1954.

Muraena spp.
Bensam, 1968a.
Delsman, 1929c, 1933a.
Ganapati and Raju, 1961b, 1963.
Jones, 1951.
Nair, R.V., 1946a.
Nair and Bhimachar, 1950.
Panikkar and Nair, 1945.
Pantulu and Jones, 1954.
Raju and Ganapati, 1967.
Regan, 1916.

Fam. MURAENESOCIDAE

Muraenesox cinercus (Forsk.)
Gopinath, 1950.
Jones, 1951.
Nair, R.V., 1947, 1948.

Muraenesox talabon (Cantor)
Jones and Pantulu, 1952.
Nair and Mohamed, 1961b.

Muraenesox talabonoides (Bleeker)
Nair and Mohamed, 1961a.

Muraenesox spp.
Jones, 1951.
Nair, R.V., 1946a.
Panikkar and Nair, 1945.

Fam. CONGRIDAE

Congrellus anago (Schlegel)
Gopinath, 1946b, 1950.
Jones, 1951.
Jones and Pantulu, 1955.
Nair, R.V., 1948.

Uroconger lepturus (Richardson)
Jones, 1951.
Nair, R.V., 1946c, 1948.
Nair and Mohamed, 1961c.

Fam. OPHICHTHYIDAE

Leiuranus semicinctus (Lay and Bennet).
Deraniyagala, 1930a.
Jones, 1951.

Ophichthys spp.
Delsman, 1933a.
Ganapati and Raju, 1961b, 1963.
Jones and Pantulu, 1955.
Mito, 1961.
Nair and Bhimachar, 1950.
Nair and Dharmamba, 1961.
Nair and Mohamed, 1961d.
Regan, 1916.

Pisoodonophis hijala (Hamilton)
Jones, 1951.
Jones and Pantulu, 1955.
Nair, K.K., 1945.

Fam. MORINGUIDAE

Moringua (Rataboura) raitaboura (Ham.)
Jones, 1951.
Nair, R.V., 1945.

LEPTOCEPHALI

Aiyar *et al.*, 1944.
Bauchot, 1959.
Delsman, 1933a.
Deraniyagala, 1934c.
Gopinath, 1950.
Mito, 1961.
Nair, R.V., 1961.
Nair and Mohamed, 1961e.
Weber, 1913.
Weber and de Beaufort, 1916.

Fam. BELONIDAE

Tylosurus crocodilus (Lesueur)
Masurekar, 1968.

Tylosurus strongylurus (Van Hass.)
Job and Jones, 1938.
Jones, 1946c, 1950b.
Jones and Menon, 1953.
Jones and Sujansingani, 1954.
Nair, R.V., 1952b.
Panikkar and Aiyar, 1939.

Tylosurus spp.
Devanesan and Chidambaram, 1948.
Gunther, 1889.
Jones, 1951.

Fam. HEMIRHAMPHIDAE

Dermogenys burmanicus Mookerjee
Jones, 1946c, 1950b.
Mookerjee, 1935.

Hemirhamphus far (Forsk.)
Vijayaraghavan, 1957.

Hemirhamphus gaimardi (Val.)
Bhattacharya, 1916.
Job and Jones, 1938.
Jones, 1946c, 1950b.
Jones and Sujansingani, 1954.
Nair, R.V., 1952b, 1952c.
Panikkar and Aiyar, 1939.

Hemirhamphus georgii (Valenciennes)
Chidambaram and Menon, 1948.
Devanesan, 1937.
Jones, 1951.
Devanesan and Chidambaram, 1948.
Kuthalingam, 1959b.
Talwar, 1964a, 1964b.

Hemirhamphus marginatus (Forsk.)
Talwar, 1964a, 1968.

Hemirhamphus quoyi (Valenciennes)
Sudarsan, 1968b.

Hemirhamphus spp.
Balakrishnan, 1959.
Delsman, 1929c.
Delsman and Hardenberg, 1934.
Gunther, 1889.
Jones, 1951.
Kuthalingam, 1958.

Zenarchopterus buffoni (Valenciennes)
Jones and Pantulu, 1958.

Zenarchopterus ectuntio (Hamilton)
Bal and Pradhan, 1946, 1947, 1951.
Bapat and Bal, 1950.
Jones, 1946c, 1951.

Fam. EXOCOETIDAE.

Cypselurus comatus (Mitchill)
Padmanabhan, 1963.

Cypselurus coromandelensis (Hornell)
Arora and Banerji, 1957.
Balasubrahmanyam *et al.*, 1967

Cypselurus poecilopterus (Cuv. & Val.)
Uchida *et al.*, 1958

Cypselurus oligolepis (Bleeker)
Prabhu, 1954b, 1956.

Cypselurus spilopterus (Valenciennes)
Basheeruddin and Nayar, 1962.

Cypselurus spp.
Delsman and Hardenburg, 1934.
Devanesan and Chidambaram, 1948.
Hornell, 1922b.
Jones, 1951.
Nayudu, 1922.

Exocoetus volitans (Linnaeus)
Balasubrahmanyam *et al.*, 1967.

Exocoetus spp.
Mito, 1961.
Yabe, 1953a.

Oxyporhamphus micropterus micropterus
Mito, 1961 (Cuv & Val.)
Uchida, *et al.*, 1958

Parexocoetus brachypterus (Richard.)
Basheeruddin and Nayar, 1962.
Uchida, *et al.*, 1958.

Parexocoetus mento mento Val.
Uchida, *et al.*, 1958.

Fam. BREGMACEROTIDAE

Bregmaceros atripinnis Tickell
Raju and Ganapati, 1967.

Bregmaceros macclellandi Thompson
Bal and Pradhan, 1945b, 1947.

Bregmaceros maccllellandi (Contd.)
 Bapat and Bal, 1950.
 Guthrie, 1889.
 Jones, 1951.
 Jones and Pantulu, 1958.
 Munro, 1950.

Fam. FISTULARIDAE

Fistularia petimba Lacepede
 Mito, 1961.

Fistularia serrata Cuvier
 Delsman, 1922a, 1929c.
 Jones, 1951.

Fistularia spp.
 Balakrishnan, 1959.
 Boonprakob, 1963.
 Delsman and Hardenburg, 1934.

Fam. CENTRISCIDAE

Centriscus scutatus Linnaeus
 Jones, 1951.

Fam. SOLENOSTOMIDAE

Solenostomus cyanopterus Bleeker
 Padmanabhan, 1961.

Fam. SYNGATHIDAE

Hippocampus sp.
 Balakrishnan, 1959.

Ichthyocampus carce (Hamilton)
 Jones and Menon, 1953.
 Jones and Sujansingani, 1954.

Microphis brachyurus (Bleeker)
 Dunker, 1910.
 Jones, 1950b, 1951.

Nerophis sp.
 Kadam, 1959.

Syngnathoides biaculataeatus (Bleeker)
 Jones, 1951.
 Sudarsan, 1968a.
 Weber and de Beaufort, 1922.

Syngnathus cyanopsilus Bleeker
 Bal and Pradhan, 1947, 1951.
 Jones, 1951.

Syngnathus schlegeli Day
 Mito, 1961.

Syngnathus sp.
 Balakrishnan, 1959.

Fam. CYPRINODONTIDAE

Aphanius dispar (Ruppel)
 Jones, 1946c, 1950b.

Aplocheilus blockii (Arnold)
 Innes, 1935
 Job, 1940.
 Jones, 1946c, 1950b.
 Mellen and Lanier, 1935.
 Russel and Jacob, 1939.
 Stoye, 1935
 Thomas, 1887.

Aplocheilus lineatus (Val.)
 Chacko and Ganapati, 1949d.
 Innes, 1939.
 Job, 1940.
 Jones, 1946c, 1950b.
 Jones and Job, 1940.
 Mellen and Lanier, 1935.
 Moody, 1933
 Stoye, 1935.

Aplocheilus panchax (Hamilton)
 Chatterjee, 1934.
 Innes, 1935.
 Job, 1940.
 Jones, 1946c, 1950b.
 Jones and Sujansingani, 1954.
 Mellen and Lanier, 1935.
 Mookerjee, 1946a.
 Norlund, 1937
 Stoye, 1935.
 Sunier, 1922.

Aplocheilus sp.
 Ahl, 1929.
 Hora and Mukerji, 1938.

Oryzias melastigma (McClelland)
 Chatterjee, 1934.
 Chaudhuri, 1916b.
 Ganapati and Chacko, 1951a.
 Jenkins, 1910.
 Job, 1940.
 Jones, 1937a, 1944, 1946c, 1950b.
 Jones and Sujansingani, 1954.

Oryzias melastigma (Contd.)

Mookerjee, 1946a.
Mookerjee, *et al.*, 1955.
Panikkar and Aiyar, 1939.
Raj, 1916.
Rangarajan, 1951.
Stoye, 1935.

Fam. POECILIIDAE

Gambusia affinis (Barid and Girard)& *G. holobrookii* (Girard)

Baake, 1930c.
Chacko, 1948c.
Chacko and Venkataraman, 1947b.
Gopinath, 1943.
Jones, 1946c, 1950b.
Jones and Sarojini, 1952.
Mellen and Lanier, 1935.

Lebistes reticulatus (Peters)

Chacko, 1948d.
Jones, 1946c, 1950b
Mookerjee, *et al.*, 1940.
Purser, 1943.
Stoye, 1935.

Fam. HORAICHTHYIDAE

Horaichthys setnai Kulkarni

Jones, 1946c, 1950b.
Kulkarni, 1940.

Fam. SPHYRAENIDAE

Sphyraena jello Cuvier

Bal and Pradhan, 1945b, 1946,
1947, 1951.
Basheeruddin and Nayar, 1962.
Jones, 1951.

Sphyraena obtusata (Cuv. And Val.)

Basheeruddin and Nayar, 1962.

Fam. MUGILIDAE

Liza strongylocephalus (Richard.)

Luther, 1967a.

Mugil capito (Cuvier)

Basu, 1946.
Faozi, 1936.
Wimpenny, 1932.

Mugil cephalus Linnaeus = *M. oeur* Day

Alikunhi, 1957b.
Basu, 1946.
Breder, 1940.
Chacko, 1949a.
Faozi, 1936.
Ganapati and Chacko, 1951a.
Jacot, 1920.
Jhingran, 1958, 1959.
Jhingran and Mishra, 1965.
Jones, 1946c, 1950b, 1951.
Kuriyan, 1966.
Kuthalingam, 1959c, 1961c.
Luther, 1967a.
Nair, G.S., 1957.
Patnaik, 1966.
Pillay, 1948a.
Rabanal, 1951.
Samant, 1966.
Sanzo, 1930b, 1936.
Sarojini, 1958a.
Thompson, 1963, 1966.
Uchida *et al.*, 1958.
Wimpenny, 1932.

Mugil cunnesius Valenciennes

Luther, 1967a.
Sarojini, 1958a, 1958b.
Thompson, 1966.

Mugil dussumieri Valenciennes

Bal and Pradhan, 1946, 1947, 1951.
Chacko, 1949a.
Hora, 1924.
Jacob and Krishnamurthy, 1949b.
Jones, 1951.
Thompson, 1966.

Mugil macrolepis (Smith) =

M. troschelli Bleeker
Bal and Pradhan, 1946, 1947, 1951.
Basu, 1946.
Chidambaram and Kuriyan, 1952.
Jacob and Krishnamurthy, 1948a.
Jhingran, and Jena, 1964.
Jones, 1951.
Luther, 1967a, 1967b.
Pillay, 1947.
Thompson, 1966.

Mugil parsia (Hamilton)

Basu, 1946.
Ghosh, 1967.
Jones, 1950b.

Mugil parsia (Contd.)

Luther, 1967a.
Mookerjee, *et al.*, 1946.
Sarojini, 1957, 1958a.
Pillay, 1947.
Thompson, 1966.

Mugil tade (Forsk.)

Basu, 1946.
Luther, 1967a.
Jacob and Krishnamurthy, 1948a.
Pillay, 1947, 1954.
Thompson, 1966.

Mugil vaigiensis (Quoy and Gaimard)

Chidambaram and Kuriyan, 1952.
Devanesan and Chacko, 1943.
Jacob and Krishnamurthy, 1948a.
Luther, 1967a.
Pillay, 1947.

Mugil spp.

Basheeruddin and Nayar, 1962.
Basu, 1946.
Chacko *et al.*, 1953.
Chacko and Ganapati, 1949e.
Devanesan and Chacko, 1943.
Durve and Dharmaraja, 1968.
Gravelly, 1931.
John, 1948.
Jones, 1946c, 1950b, 1951.
Mookerjee, 1948b.
Nair, R.V. 1946b, 1952c.
Panikkar, 1952.
Panikkar and Nair, 1945
Pillay, 1949, 1953b.
Pillay and Shaw, 1949.
Rabanal, 1951.
Uni. Travancore, 1948.

Rhinomugil (= *Mugil*) *corsula* (Ham.)

Alikunhi, 1957b.
Basu, 1946.
Hora, 1938.
Jones, 1950b.
Jones and Sarojini, 1952.
Luther, 1967.
Pakrasi and Alikunhi, 1953.
Qasim and Qayyum, 1962.
Sarojini, 1958a.
Thompson, 1966.

Sicamugil (= *Mugil*) *cascasia* (Ham.)

Sehgal, 1961.

Valamugil (= *Mugil*) *seheli* (Forsk.)

Bal and Pradhan, 1947, 1951.
Basu, 1946.
Chacko, 1950c.
Chidambaram and Kuriyan, 1952.
Devanesan and Chacko, 1943.
Pillay, 1947.
Thompson, 1966.
Venkataraman, 1944.

Fam. ATHERINIDAE

Allanetta forskali (Rupp.)

Balakrishnan, 1959.
Gopinath, 1946b.
Jones, 1951.

Fam. POLYNEMIDAE

*Eleutheronema**tetradactylum* (Shaw)

Bal and Pradhan, 1951.
Bapat and Bal, 1950.
Chacko, 1949c.
Chandra, 1964.
Job and Chacko, 1947b.
Karandikar and Palekar, 1950
Kowtal, 1965.
Rao, 1967.
Sarojini and Malhotra, 1952.

Polynemus heptadactylus Cuvier

Nayak, 1965.

Polynemus indicus Shaw

Basheeruddin and Nayar, 1962
Bhatt *et al.*, 1967.
Karekar and Bal, 1960.
Kuthalingam, 1959c, 1961.
Mohamed, 1955.
Nayak, 1960.

Polynemus paradiseus Linnaeus

Chandra, 1964.
David, 1954.
Day, 1876-1888.
Jones, 1946c, 1950b.
Jones and Menon, 1953.

Polynemus sexfilis (Valenciennes)

Basheeruddin and Nayar, 1962.

Polynemus sextarius (Bl. & Schn.)
Basheeruddin and Nayar, 1962.

Polynemus sp.
Pillay and Shaw, 1949.

Fam. OPHICEPHALIDAE

Ophicephalus gachua (Hamilton)
Day, 1876-1888.
Deraniyagala, 1929.
Jones, 1946c, 1950b.
Khan, 1923b, 1924, 1934.
Mookerjee, *et al.*, 1950.
Raj, 1916.

Ophicephalus marulius (Hamilton)
Alikunhi, 1957b.
Chacko, 1948b, 1951d, 1956.
Das, 1965
Deraniyagala, 1929.
Jones, 1946c, 1950b.
Khan, 1923b, 1924a, 1924b, 1926, 1934.
Khan and Bhatia, 1923.
Mookerjee, 1946a.
Qasim and Qayyum, 1962.
Renganathan and Devaraj, 1966.
Thomas, 1870.

Ophicephalus micropeltes Cuvier
Univ. Trivancore, 1948.

Ophicephalus orientalis (Bl. & Schn.)
Deraniyagala, 1929.
Jones, 1946c, 1950b.

Ophicephalus punctatus (Bloch)
Alikunhi, 1948c.
Belsare, 1964.
Chacko, 1951d, 1956.
Day, 1876-1888.
Hosaini and Rahimullah, 1946.
Jones, 1946c, 1950b.
Kapoor, 1962.
Khan, 1934.
Mookerjee, 1946a.
Mookerjee, *et al.*, 1946a.
Qasim, 1966.
Qasim and Bhatt, 1964.
Qasim and Qayyum, 1962.
Qayyum and Qasim, 1961, 1964.
Raj, 1916.
Swarup, 1963.

Ophicephalus stewartii Playfair
Ganguly *et al.*, 1963.

Ophicephalus striatus (Bloch)
Alikunhi, 1948c, 1954, 1957b.
Bhattacharya, 1946.
Chacko, 1951d, 1956.
Iyengar, 1962.
Jones, 1946c, 1950b.
Khan, 1923b, 1924a.
Mookerjee, 1946a.
Mookerjee, *et al.*, 1948.
Pertwee, 1913.
Qasim and Qayyum, 1962.
Rahimullah, 1946a.
Raj, 1916.
Smith, 1945.
Thomas, 1870.
Weber and de Beaufort, 1922.
Willey, 1908, 1909.

Ophicephalus spp.
Devanesan and Chidambaram, 1948.
Jones, 1950b.
Puckle, 1868.
Sundararaj and Ramaswami, 1956.

Fam. HOLOCENTRIDAE

Holocentrus sp.
Jones and Kumaran, 1964a.
Mito, 1967.

Myripristis murdjan Forskal
Jones and Kumaran, 1964a.

Fam. AMPHIPNOIDAE

Amphipnous cuchia (Hamilton)
Das, 1928, 1946.
Jones, 1946c, 1950b.

Fam. SYMBRANCHIDAE

Symbranchus bengalensis (McClelland)
Rengarajan and Jacob, 1961.

Fam. CENTROPOMIDAE

Ambassis ambassis Lacepede
Gopinath, 1946b.
Jones, 1951.

Ambassis commersonii Cuvier
Jones, 1951.

Ambassis gymnocephalus (Lacepede)
Nair, G.S., 1957a.

Ambassis lala (Hamilton)
Baake, 1930a.
Innes, 1935.
Jones, 1946c, 1950b.
Stoye, 1935.

Ambassis miops, Gunther
Jones, 1946c, 1950b.
Nair, R.V., 1946b, 1952c.
Panikkar and Aiyar, 1939.
Panikkar and Nair, 1945.

Ambassis nama (Hamilton)
Jones, 1946c, 1950b.

Ambassis ranga (Hamilton)
Chaudhuri and Sewell, 1912.
Job, 1941b.
Jones, 1946c, 1950b.

Ambassis, spp.
Balakrishnan, 1959.
Delsman, 1926f.
John, 1948.
Jones, 1950b.

Fam. LATIDAE

Lates calcarifer (Bloch)
Alikunhi, 1957b.
Chacko, 1949a, 1949d, 1951d,
1956.
Chacko and Ganapati, 1949d.
Job and Chacko, 1947b.
Jones and Sujansingani, 1954.
Naidu, 1939.
Pertwee, 1913.
Rabanal, 1951.
Raj, 1916.
Rao, T.A., 1967.
Smith, 1945.

Psammoperca waigiensis (Cuvier)
Prabhu, 1954a, 1954b, 1956.

Fam. SERRANIDAE

Epinephelus diacanthus (Val.)
Bal and Pradhan, 1945b, 1946, 1947,
1951.
Jones, 1951.

Epinephelus leopardus (Lacepede)
Bal and Pradhan, 1946, 1947.
Jones, 1951.

Serranus (?= *Epinephelus*) spp.
Bal and Pradhan, 1947, 1951.
Jones, 1951.
Rabanal, 1951.

Fam. THERAPONIDAE

Pelates quadrilineatus (Bloch)
Day, 1876-1888.
Gopinath, 1946b.
Jones, 1946c, 1950b, 1951.
Munro, 1945.
Prabhu, 1954a, 1954b.

Pelates, sp.
Jones, 1951.

Therapon argenteus (Cuv. & Val.)
Bal and Pradhan, 1945b, 1946, 1947,
1951.
Bapat and Bal, 1950a.
Jones, 1951.

Therapon jarbua (Forsk.)
Bal and Pradhan, 1945b, 1947, 1951.
Basheeruddin and Nayar, 1962.
Chacko, 1949a, 1950c.
Jones, 1946c, 1950b, 1951.
Nair, R.V., 1946b, 1952b.
Panikkar and Aiyar, 1939.
Panikkar and Nair, 1945.
Prabhu, 1954b, 1956.
Rao, S. R., 1934.
Weber, 1913.
Weber and de Beaufort, 1931.

Therapon puta (Cuvier)
Prabhu, 1954b, 1955.
Chaudhuri, 1923b.

Therapon theraps, (Cuvier)
Basheeruddin and Nayar, 1962.
Day, 1876-1888.
Jones, 1946c, 1950b, 1951.
Weber, 1913.
Weber and de Beaufort, 1931.

Therapon, spp.
Jones 1951.

Fam. PRIACANTHIDAE

Priacanthus hamur (Forsk.)
Basheeruddin and Nayar, 1962.

Fam. APOGONIDAE

Apogon frenatus (Valenciennes)
Basheeruddin and Nayar, 1962.

Apogon hoeveni Bleeker
Jones, 1951.
Weber and de Beaufort, 1929.

Apogon lateralis (Bleeker)
Basheeruddin and Nayar, 1962.

Apogon wassinki (?= *A. chrysotaenia*) Bleek.
Bal and Pradhan, 1947, 1951
Jones, 1951.

Apogon sp.
Balakrishnan, 1959.

Archamia macroptera (Bleeker)
Basheeruddin and Nayar, 1962.

Fam. SILLAGINIDAE

Sillago sihama (Forsk.)
Chacko, 1949a, 1950c.
Chaudhuri, 1923b.
Gopinath, 1946b.
Hora, 1924.
Jones, 1946c, 1950b, 1951.
Jones and Sujansingani, 1954.
Palekar and Bal, 1960, 1961.
Radhakrishnan, 1954, 1957, 1961.
Uchida *et al.*, 1958.
Ueno and Fujita, 1954.

Sillago panijus (Hamilton)
Krishnayya, 1967.

Fam. LACTARIIDAE

Lactarius lactarius (Schneider)
Basheeruddin and Nayar, 1962.
Chacko, 1954a.
Chidambaram and Venkataraman, 1964.
Devanesan and Chacko, 1944c.
Jones, 1951.
Nair, R.V., 1946b, 1952b.
Panikkar and Nair, 1945.

Fam. CARANGIDAE

Alectis ciliaris (Bloch)
Delsman, 1926b.
Jones, 1951.
Weber and de Beaufort, 1931.

Alectis indica (Ruppel)
Basheeruddin and Nayar, 1962.
Delsman, 1929c.
Jones, 1951.
Rao, K.S.P.B., 1963.
Weber and de Beaufort, 1931.

Atropus atropus (Bloch)
Basheeruddin and Nayar, 1962.

Carangoides armatus (Forsk.)
Basheeruddin and Nayar, 1962.
Jones, 1951.

Carangoides malabaricus (Bloch)
Basheeruddin and Nayar, 1962.

Caranx carangus (Bloch)
Basheeruddin and Nayar, 1962.
Subrahmanyam, 1968.

Caranx djedaba (Forsk.)
Chacko and Mathew, 1955.

Caranx macrosoma (Bleeker)
Delsman, 1926b.

Caranx sexfasciatus Quoy and Gaimard
= *C. hippos* (Linnaeus)
Jones, 1951.
Subrahmanyam, 1964.

Caranx spp.
Delsman and Hardenberg, 1934.
Devanesan and Varadarajan, 1942.
Jones, 1951.
Nair, R.V., 1952a.
Vijayaraghavan, 1957.
Yabe, 1953a.

Chorinemus Iysan (Forsk.)
James, 1967c.

Chorinemus tol (Cuvier)
Basheeruddin and Nayar, 1962.

Decapterus russelli Ruppel = *Caranx kurra* Cuvier and Valenciennes.
Basheeruddin and Nayar, 1962.
Chacko and Mathew, 1915.
Chidambaram, 1943.

Decapterus russelli (Contd.)

Delsman, 1926a, 1929c.
Jones, 1951.
Vijayaraghavan, 1957.

Megalaspis cordyla (Linnaeus)

Basheeruddin and Nayar, 1962.
Datar and Bal, 1955.
Kuthalingam, 1959a, 1959c.

Naucrates ductor (Linnaeus)

Jones, 1951.
Smith, 1949.
Weber, 1913.
Weber and de Beaufort, 1931.

Selar crumenophthalmus (Bloch)

Chacko and Mathew, 1955.
Delsman, 1926a.
Devanesan and Chidambaram, 1941.
Jones, 1951.

Selar kalla (Cuvier)

Bapat and Prasad, 1952.
Chacko and Mathew, 1955.
Chidambaram, 1943.
Gopinath, 1946b.
Jones, 1951.
Kagwade, 1965.
Subrahmanyam, 1968.

Selar mate (Cuvier)

Basheeruddin and Nayar, 1962.
Kuthalingam, 1959a.

Selaroides leptolepis (Cuv.)

Bapat, 1955.
Prabhu, 1954b.
Tandon, 1960, 1961a, 1961b, 1962.

Trachynotus blochi (Lacepede)

Arora, 1951.
Basheeruddin and Nayar, 1962.

Fam. LEIOGNATHIDAE

Gazza minuta (Bloch)

Basheeruddin and Nayar, 1962.

Gazza spp.

Bal and Pradhan, 1945b, 1946,
1951.
Chacko, 1944.
Jones, 1951.

Gerres abbreviatus (Bleeker)

Basheeruddin and Nayar, 1962.

Gerres lucidus Cuvier

Jones, 1951.
Nair, R.V., 1946b, 1952c.
Panikkar and Nair, 1945.
Whitehouse, 1923.

Gerres punctatus Cuvier

Chacko, 1949a.
Jones, 1951.

Gerres setifer (Hamilton)

Basheeruddin and Nayar, 1962.

Leiognathus bindus (Valenciennes)

Balan, 1967.
Chacko, 1950c.
Jones, 1951.

Leiognathus blochii (Valenciennes)

Gopinath, 1946a, 1946b.
Jones, 1951.

Leiognathus brevirostris (Val.)

Balakrishnan, 1959.

Leiognathus equulus (Forsk.)

Basheeruddin and Nayar, 1962.
Jones, 1951.
Whitehouse, 1923.

Leiognathus fasciatus (Lacepede)

Bal and Pradhan, 1945b, 1946,
1947, 1951.
Basheeruddin and Nayar, 1962.
Jones, 1951.

Leiognathus insidiator (Bloch)

Basheeruddin and Nayar, 1962.
John, 1951.
Jones, 1951.

Leigonathus lineolatus (Val.)

John, 1951.
Jones, 1951.

Leiognathus splendens (Cuvier)

Basheeruddin and Nayar, 1962.
Jones, 1951.

Leiognathus spp

Chacko, 1944

Secutor ruconius (Hamilton)

Basheeruddin and Nayar, 1962.
John, 1951.
Jones, 1951.
Nair, R.V., 1946b, 1952c.

Fam. LUTIANIDAE

Lutjanus johnii (Bloch)
Bal and Pradhan, 1945b, 1946, 1947,
1951.
Jones, 1951.

Lutjanus lineolatus (Ruppel)
Basheeruddin and Nayar, 1962.
Chacko, 1949a.
Jones, 1951.

Lutjanus kasmira (Forsk.)
Basheeruddin and Nayar, 1962.

Fam. NEMIPTERIDAE

Nemipterus japonicus (Bloch)
Basheeruddin and Nayar, 1962.

Fam. POMADASYDAE

Plectorhynchus crassipinus (Ruppel)
Jones, 1951.

Pomadasyg hasta Bloch
Smith, 1949.

Pomadasyg maculatus (Bloch)
Basheeruddin and Nayar, 1962.
Day, 1889.
Jones, 1951.

Fam. SCIAENIDAE

Johinius belengerii (Cuvier)
Basheeruddin and Nayar, 1962.
Gopinath, 1946b.
Jacob and Krishnamurthy, 1948b.
Jones, 1950b.

Johinus carutta (Bloch)
Jacob and Krishnamurthy, 1948b.
Rao, T.A., 1967.

Johinus dussumieri (Cuvier)=
Sciaena glauca Day
Hardenberg, 1931.
Jones, 1950b.

Otolithes argenteus (Cuvier)
Annigeri, 1967.
Jacob and Krishnamurthy, 1948b.

Otolithes maculatus (Cuvier)
Jacob and Krishnamurthy, 1948b.
Jones, 1950b.

Otolithes ruber (Schneider)
Chacko, 1950c.
Jacob and Krishnamurthy, 1948b.
Jones, 1951.

Otolithes sp.
Basheeruddin and Nayar, 1962.

Pama pama (Hamilton)
Chandra, 1964.
David, 1954.
Jones, 1951.
Karamchandani and Motwani, 1954.
Motwani *et al.*, 1954.
Pantulu and Jones, 1951.

Pseudosciaena aneus (Bloch)
John, 1951.
Jones, 1951.
Rao, T. A., 1967.

Pseudosciaena bleekeri (Day)
Rao, T.A., 1967.

Pseudosciaena coibar (Hamilton)
Bal and Pradhan, 1945b, 1951.
Jones, 1951.
Rajan, 1968.

Pseudosciaena coitor (Hamilton)
Jacob and Krishnamurthy, 1948b.
Jones, 1950b.
Karamchandani and Motwani, 1954.

Pseudosciaena diacanthus (Lacepede)
Bhatt *et al.*, 1967.
Jacob and Krishnamurthy, 1948b.
Jones, 1950b.
Rao, k. Venkatasubba, 1967.

Pseudosciaena sp.
Nair, R.V., 1952c.

Sciaena dussumieri (Valenciennes)
Basheeruddin and Nayar, 1962.

Fam. LETHRINIDAE

Lethrinus cinereus Valenciennes
Jones, 1951.
Whitehouse, 1923.

Lethrinus lentjan Lacepede
Toor, 1965, 1968.

Lethrinus nebulosus (Forsk.)
Basheeruddin and Nayar, 1962.

Lethrinus nematacanthus Bleeker
Mito, 1956, 1963b.

Fam. MULLIDAE

Parpeneus indicus (Shaw)
Basheeruddin and Nayar, 1962.

Upeneus benasi (Temm. & Schl.)
Uchida, *et al.*, 1958.

Upeneus sulphureus Cuvier
Basheeruddin and Nayar, 1962.

Upeneus taenopterus Cuvier
Basheeruddin and Nayar, 1962.

Upenoides vittatus (Forsk.)
Gopinath, 1946a.
Jones, 1951.

Fam. PEMPHERIDAE

Pempheris moluca Cuvier
Gopinath, 1946b.
Jones, 1951.

Fam. TOXOTIDAE

Toxotes chatareus (Hamilton)
Day 1876-1888.
Jones, 1946c, 1950b.

Fam. DREPANIDAE

Drepane punctata (Linnaeus)
Basheeruddin and Nayar, 1962.
Smith, 1949.

Drepane sp.,
Bapat and Bal, 1950.
Jones, 1951.

Fam. SCATOPHAGIDAE

Scatophagus argus (Bloch)
Bal and Pradhan, 1946, 1947,
1951.
Chacko, 1949a.
Day 1876-1888.
Jones, 1946c, 1950b 1951.
Hora, 1924.
Nair, R.V. 1946b, 1952c.
Panikkar and Nair, 1945.
Rabanal, 1951.

Weber, 1913.
Weber and de Beaufort, 1939.

Scatophagus argus var. *tetracanthus* (Lac.)
Bal and Pradhan, 1945b.
Day 1876-1888.
Jones, 1951.

Fam. CHAETODONTIDAE

Chaetodon spp.
Bal and Pradhan, 1945b, 1946, 1951.
Jones, 1951.

Fam. NANDIDAE

Badis badis (Hamilton)
Innes, 1935.
Jones, 1946c, 1950b.
Mellen and Lanier, 1935.
Stoye, 1935.

Nandus nandus (Hamilton)
Jones, 1946c, 1950b.
Stoye, 1935.
Thomas, 1870.

Fam. CICHLIDAE

Eetroplus maculatus (Bloch)
Alikunhi, 1947.
Baake, 1929.
Chacko, 1951d, 1956.
Jerdon, 1849.
Jones, 1937a, 1937b, 1946c, 1950b.
Mellen and Lanier, 1935.
Panikkar, 1920.
Raj, 1916.
Rice, 1943.
Stoye, 1935.

Eetroplus suratensis (Bloch)
Alikunhi, 1957b.
Alikunhi *et al.*, 1952.
Baskaran, 1946.
Chacko, 1949a, 1949c, 1951d.
Chako *et al.*, 1953.
Chacko and Ganapati, 1949c, 1949e.
Ganapati and Chacko, 1951a.
Ganapati *et al.*, 1950.
Government of Madras, 1956.
Job *et al.*, 1947.

- Etroplus suratensis* (Contd.)
 Job and Chacko, 1947b.
 John, 1948.
 Jones, 1937a, 1946c, 1950b, 1951.
 Jones and Sarojini, 1952.
 Jones and Sujansingani, 1954.
 Panikkar, 1920, 1924.
 Rahimullah, 1946b.
 Raj, 1916.
 Srinivasan, 1955a.
 Thomas, 1870.
 Uni. of Travancore, 1948.
 Willey, 1910.
- Etroplus* sp.
 Gravely, 1931.
- Tilapia mossambica* (Peters)
 Chacko and Krishnamurthi, 1954.
 Panikkar and Tampi, 1954.
 Srivastava and Menon, 1961.
 Vaas and Hofstede, 1952.
- Fam. POMACENTRIDAE
- Amphiprion bicinctus* (Ruppel)
 Bey and Gohar, 1948.
 Jones, 1951.
 Weber and de Beaufort, 1922.
- Amphiprion ephippium* (Bloch)
 Delsman, 1930c.
 Jones, 1951.
 Vetwey, 1930.
- Amphiprion percula* (Lacepede)
 Jones, 1951.
 Verwey, 1930.
- Amphiprion* sp.
 Jones, 1951.
 Verwey, 1930.
- Fam. LABRIDAE
- Coris aygula* Lacepede
 Jones, 1951.
- Fam. BLENNIIDAE
- Andamia heteroptera* (Bleeker)
 Jones 1951.
 Rao and Hora, 1938.
- Petroscirtes bhattacharyae* Chaud.
 Bat and Pradhan, 1946, 1947, 1951.
- Bhattacharya, 1966.
 Jones, 1937a, 1946c, 1950b, 1951.
 Jones and Sujansingani, 1954.
- Petroscirtes bipunctatus* Day
 Dutt and Rao, 1961.
- Petroscirtes punctatus* (Cuv. & Val.)
 Bal and Pradhan, 1945b, 1946, 1947,
 1951.
 Jones, 1951.
- Fam. CALLIONYMIDAE
- Callionymus fluviatilis* Day
 Jones and Menon, 1953.
- Callionymus lyra* Linnaeus
 Qasim, 1966.
- Callionymus melanopterus* Bleeker
 Jones and Pantulu, 1958.
- Fam. SIGANIIDAE
- Siganus fusceseens* (Houttuyn)
 Mito, 1967.
- Teuthis java* Linnaeus
 Basheeruddin and Nayar, 1962.
 Jones, 1951.
 Whitehouse, 1923.
- Teuthis* sp.
 Rabanal, 1951.
- Fam. ACANTHURIDAE
- Acanthurus matoides* Valenciennes
 Basheeruddin and Nayar, 1962.
- Acanthurus* sp.
 Delsman and Hardenberg, 1934.
- Fam. TRICHIURIDAE
- Eupleurogrammus intermedius* (Gray)
 James, 1963, 1967a, 1967b.
- Eupleurogrammus muticus* (Gray)
 James, 1963, 1967b.
- Lepturacanthus* (= *Trichiurus*) *savala* (Cuv.)
 Anonymous, 1949.
 Bapat and Bal, 1950a.
 Chacko, 1950c.
 Delsman, 1927.

Lepturacanthus savala (Contd.)

James, 1963, 1967.
 Jones, 1950b, 1951.
 Nair, R.V, 1946b, 1952b.
 Panikkar and Nair, 1945.
 Prabhu, 1950, 1955.
 Sekharan, 1956.

Trichiurus spp.

Boonprakob, 1963.
 Chacko, 1954.
 Delsman, 1927, 1929c.
 Jacob, 1949.
 Jones, 1951.

Fam. CORYPHAENIDAE

Coryphaena hippurus Linnaeus

Mito, 1960.

Fam. GEMPYLIDAE

Gempylus serpens Cuvier

Jones, 1960a.

Fam. SCOMBRIDAE

Subfam. SCOMBRINAE

Grammatorcynus bicarinatus (Q. & G.)

Silas, 1963a.
 Wade, 1951.

Rastrelliger brachysoma (Bleeker)

Jones and Silas, 1964.
 Jones and Rosa, 1965, 1967.

Rastrelliger Kanagurta (Cuvier)

Balakrishnan, 1957.
 Basheeruddin and Nayar, 1962
 Bennet, 1967.
 Bhimachar and George, 1953.
 Boonprakob, 1967.
 Chacko, 1954a, 1955c.
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