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SELECTED BIBLIOGRAPHY ON PELAGIC FISH EGG AND LARVA SURVEYS

BIBLIOGRAPHIE SELECTIVE SUR LES PROSPECTIONS D'OEUFs ET DE LARVES DE POISSONS PELAGIQUES

BIBLIOGRAFIA SELECCIONADA SOBRE RECONOCIMIENTOS DE HUEVOS Y LARVAS DE PECES PELAGICOS

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ORGANISATION DES NATIONS UNIES POUR L'ALIMENTATION ET L'AGRICULTURE
ORGANIZACION DE LAS NACIONES UNIDAS PARA LA AGRICULTURA Y LA ALIMENTACION

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1. SCOPE, COVERAGE AND ORGANIZATION

This bibliography is intended to provide access to published information on ichthyoplankton survey methods, identification of fish eggs and larvae, and results of surveys that have been carried out in the past. Although the bibliography is selective, its coverage includes all published works through 1973, and it has been extended by the addition of all papers presented at the Oban Symposium and published in the symposium proceedings (Blaxter, J.H.S. (ed.) 1974. The early life history of fish. Springer-Verlag, Berlin).

The first five sections of this bibliography list works by name and date only according to subject category. Section 2 contains references on survey equipment and methods. Section 3 includes descriptions of early life stages organized by taxonomic group. Section 4 lists references on species identification of fish eggs and larvae by region (specifically, by FAO statistical area). Section 5 has reports of survey results, also by region. The bibliography itself, with full citations, is Section 6.

1. PORTEE, CHAMP D'APPLICATION ET ORGANISATION

Cette bibliographie a pour objet d'ouvrir l'accès à l'information publiée touchant les méthodes de prospection d'ichtyoplancton, l'identification des oeufs et des larves de poisson et les résultats des études qui ont été faites dans le passé. Bien qu'elle soit sélective, son champ d'application inclut tous les travaux publiés jusqu'en 1974, et on l'a élargi par l'adjonction de tous les documents soumis au Symposium d'Oban et publiés dans le rapport de ce symposium (Blaxter, J.H.S. (ed.) 1974. The early life history of fish. Springer-Verlag, Berlin).

Dans les cinq premières sections de cette bibliographie sont énumérés des travaux dont on indique le nom et la date, avec ventilation par catégorie de sujets. La Section 2 contient des références sur les méthodes suivies et l'équipement utilisé pour les prospections. La Section 3 inclut des descriptions des stades biologiques initiaux classés par groupe taxonomique. La Section 4 comporte des listes de références sur l'identification des espèces d'oeufs et de larves par région (plus précisément, par zone statistique de la FAO). A la Section 5 figurent des rapports donnant les résultats des prospections, eux-mêmes par région. La bibliographie elle-même, assortie de citations complètes, se trouve à la Section 6.

1. FINALIDAD, ALCANCE Y ESTRUCTURACIÓN

Esta bibliografía se propone facilitar el acceso a la información publicada sobre métodos de reconocimiento ictioplanctónico, identificación de huevos y larvas de peces, y resultados de reconocimientos efectuados en el pasado. Aunque se trata de una bibliografía selectiva, se han incluido todas las obras publicadas hasta 1973, añadiendo además los documentos presentados al simposio de Oban y publicados en las actas del mismo (Blaxter, J.H.S. (ed.) 1974. The early life history of fish. Springer-Verlag, Berlin).

En las cinco primeras secciones de esta bibliografía se indica sólo el autor y la fecha de las publicaciones, agrupadas por temas. La Sección 2 reúne los trabajos sobre equipo y métodos de reconocimiento. La Sección 3 presenta las descripciones de las primeras fases vitales ordenadas por grupos taxonómicos. En la Sección 4 figuran las publicaciones que se ocupan de identificación de especies de huevos y larvas de peces, por regiones (áreas estadísticas de la FAO). La Sección 5 incluye los informes publicados sobre resultados de reconocimientos, también por regiones. La bibliografía propiamente dicha, con citas bibliográficas completas, constituye la Sección 6.

The following specialists have kindly collaborated in the compilation of this selected bibliography, each for the region he or she is most familiar with:

Les spécialistes dont les noms suivent ont collaboré à la préparation de cette bibliographie sélective, chacun d'entre eux pour la région avec laquelle il est particulièrement familiarisé:

En la preparacion de este bibliografica han colaborado los siguientes especialistas:

Northwest Atlantic/Atlantique nord-ouest/Noroeste del Atlántico: R. MARAK (MARMAP Field Office, Narragansett, U.S.A.)

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Western Central Atlantic/Atlantique centre-ouest/Atlántico Centro-occidental: C.R. FUTCH (Marine Research Laboratory, St. Petersburg, Florida, U.S.A.)

Indian Ocean Coastal Waters/Eaux côtières de l'océan Indien/Agua costeras del océano Indico: W. NELLEN (Institut für Meereskunde, Kiel, F.R.G.)

Western Central Pacific/Pacifique centre-ouest/Pacífico Centro-occidental: S. MITO (South-east Asian Fisheries Development Center, Singapore)

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Southwest Atlantic/Atlantique sud-ouest/Sudoeste del Atlántico: J.D. de CIBOMONSKI (Instituto de Biología Marina, Mar del Plata, Argentina), E.C. VON (Institut für Meereskunde, Kiel) and/et/y Y. MATSUURA (Instituto Oceanografico, São Paulo, Brazil)

2. REFERENCES ON SURVEY EQUIPMENT AND METHODS/REFERENCES SUR L'EQUIPEMENT ET LES METHODES
DE PROSPECTION/BIBLIOGRAFIA SOBRE EQUIPO Y METODOS DE RECONOCIMIENTO

- Adron, J.W., A. Blair & C.B. Cowey, 1974
Alderdice, D.F. & F.P.J. Velsen, 1968
Bachop, W.E. & F.J. Schwartz, 1974
Bagenal, T.B., 1971
Barnabe, G., 1974
Bary, B.M. et al., 1958
Battle, H.T., 1943
Be, A.W.H., 1962
Berry, F.H. & W.J. Richards, 1973; 1974
Bishai, H.M., 1960; 1960a; 1960b; 1961; 1961a
Bjorke, H. et al., 1974
Blaxter, J.H.S., 1957; 1960; 1965; 1969
Blaxter, J.H.S. & K.F. Ehrlich, 1974
Boyar, H.C. & R.A. Clifford, 1967
Breder, C.M., Jr., 1943; 1962
Breder, C.M., Jr. & D.E. Rosen, 1966
Bridger, J.P., 1956
Counts, R.C., 1961
Crawford, D.R., 1923
Cushing, D.H., 1969; 1974
Daykin, P.N., 1965
Delsman, H., 1930
Dementjeva, T.F., 1964
Dragesund, O., 1970
Ehrenbaum, E., 1904
Ehrlich, K.F., 1974
Fahy, W.E., 1964
Farris, D.A., 1959; 1960; 1963a
Fluchter, J., 1974
Fonds, M., H. Rosenthal & D.F. Alderdice, 1974
Galkina, L.A., 1969
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Gjosæter, J. & R. Sætre, 1974
Hempel, G., 1965
Hiemstra, W.H., 1962
Holliday, F.G.T., 1965
Hoss, D.E., W.F. Hettler, Jr. & L.C. Coston, 1974
Houde, E.D., 1973
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Hubbs, C.L., 1943
Hunter, J.R. & G.L. Thomas, 1974
Irvin, D.N., 1974
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Jones, A., R. Alderson & B.R. Howell, 1974
Kelley, A.M., 1946
Lasker, R., 1962; 1965
Lee, J.L., 1966
Lenars, W.H., 1972
Leong, R., 1967; 1971
Lillelund, K. & R. Lasker, 1971
Lindquist, A., 1964
Mahnken, C.V.W. & J. Jossi, 1967
Marshall, N.B., 1953
May, R.C., 1970; 1971a; 1971b; 1974
Metsinger, E.L., 1973
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Mito, S., 1950
 Morris, R.W., 1955; 1956
 Murphy, G.I. & R.I. Clutter, 1972
 Orton, G., 1953a; 1955; 1957
 Packard, A. & A.W. Mainwright, 1974
 Parrish, B.B., I.G. Baxter & M.J.D. Mowat, 1960
 Pommeranz, T., 1974
 Powles, P.M., 1974
 Purdom, C.E. & R.F. Lincoln, 1974
 Rass, T.S., 1947; 1953; 1964
 Rice, S.D. & R.M. Stokes, 1974
 Richards, W.J. & F.H. Berry, 1973
 Richards, W.J. & B.J. Palko, 1969
 Rosenthal, H. & K.R. Sperling, 1974
 Saville, A., 1964
 Schnack, D., 1974
 Schumann, G.O., 1965
 Shelbourne, J.E., 1964; 1965
 Silva, C. de, 1974
 Simpson, A.C., 1956
 Smith, P.E. & R.I. Clutter, 1965
 Smith, P.E., R.C. Counts & R.I. Clutter, 1968
 Surtzer, 1967
 Tanaka, S., 1974
 Tanning, A.V., 1952
 Taunti, M., 1927
 Taylor, W.R., 1967
 Theilacker, G.H. & R. Lasker, 1974
 Wilson, K.W., 1974

3. REFERENCES ON SPECIES IDENTIFICATION OF EGGS AND LARVAE, GROUPED TAXONOMICALLY/REFERENCES
 SUR L'IDENTIFICATION DES ESPECES D'OEUF ET DE LARVES, GROUPEES SELON DES CRITERES
 TAXONOMIQUES/BIBLIOGRAFIA SOBRE IDENTIFICACION DE ESPECIES DE HUEVOS Y LARVAS, POR GRUPOS
 TAXONOMICOS

3.1 Anguilliformes

Beebe, W. & J. Crane, 1936; 1937
 Bertin, L., 1938
 Blache, J., 1964; 1968; 1968a; 1971; 1972
 Castle, P.H.J., 1963; 1965; 1965a; 1965b; 1969; 1970
 Eldred, B., 1966; 1967; 1968; 1968a; 1968b; 1968c; 1968d; 1969; 1969a; 1970; 1970a;
 1970b; 1971
 Eziuzo, E.N.C., 1965
 Grassi, G.B., 1913
 Orton, G., 1963; 1964a; 1964b
 Raju, S.N., 1974
 Richardson, S.L., 1974
 Roule, L. & L. Bertin, 1929
 Schmidt, J., 1925
 Smith, D.G., 1969; 1970
 Smith, D.G. & P.H.J. Castle, 1972
 Sparta, A., 1938; 1939
 Tommasi, L.R., 1960
 Uchida, K., A. Kataoka & T. Takai, 1968

3.2 Elopiformes

Wode, R.A., 1962

3.2.1 Elopidae

Eldred, B., 1967a; 1968a; 1972
Eldred, B. & W.G. Lyons, 1966
Gehring, J.W., 1959
Mercado, J.E.S. & A. Ciardelli, 1972
Wade, R.A., 1962

3.2.2 Albulidae

Alexander, E.C., 1961
Eldred, B., 1967
Fitch, J.E., 1950
Smith, J.L.B., 1966

3.3 Clupeiformes

3.3.1 Clupeidae

Ahlstrom, E.H., 1943
Bainbridge, V., 1961; 1962
Baker, A.N., 1972; 1973
Bensam, P., 1971; 1971a
Conand, F. & E. Fagetti, 1971
Dakin, W.J. & A. Colifax, 1934
Davies, D.H., 1954
Dessier, A., 1969
Hettler, W.F., Jr., 1968; 1970
Houde, E.D. & P.L. Fore, 1973
Houde, E.D. et al., 1974
Hukuda, H., 1934
Kondo, K., 1951
Krezelj, S., 1971
Lebour, M.V., 1921
Lewis, R.M., E.P.H. Wilkens & H.R. Gordy, 1972
Matsura, Y., 1974
Miller, D.J., 1952
Nakai, Z., 1948
Reintjes, J.W., 1962
Richards, W.J. et al., 1973
Richards, W.J., R.V. Miller & E.D. Houde, 1974
Saville, A.M., 1964a
Scofield, E.C., 1934
Scofield, E.C. & M.J. Linder, 1930
Simpson, J.G. & G. Gonzalez, 1967
Suttkus, R.D., 1956
Takita, T., 1966
Turner, W.R., 1969
Zhen-Ran, Chen & Chang Hsiao-Wei, 1965

3.3.2 Clupeidae - Engraulidae

Ciechomski, J.D., 1973; 1973a
Page, L., 1920
Marchal, E.G., 1967

3.3.3 Engraulidae

Atlan, H., 1957
Balakrishnan, K.P., 1969
Bolin, Rolf L., 1936
Ciechomski, J.D. de 1965
Einarsson, H. & B. Rojas de Mendiola, 1963
Fischer, W.K., 1958a
Marchal, E.G., 1966
Simpson, J.G., 1959; 1965
Takita, T., 1967

3.4 Salmoniformes

3.4.1 Argentinoidei (Argentinidae, Bathylagidae, Opisthoproctidae)

Ahlstrom, E.H., 1971a
Beebe, W., 1933
Schmidt, J., 1906; 1918
Taning, A.V., 1931

3.4.2 Salmonoidei (Osmeridae)

Hikita, T., 1958
Yap-Chiongco, J.V., 1949

3.4.3 Stomiatoidi

3.4.3.1 Gonostomatidae - Sternoptychidae

Ahlstrom, E.H., 1974
Ahlstrom, E.H. & R.C. Counts, 1958
Ahlstrom, E.H. & H.G. Moser, 1969
Badcock, J.R. & N.R. Merritt, 1972
Grey, M., 1964
Jespersen, P. & A.V. Taning, 1919; 1926
Kawaguchi, K. & R. Marumo, 1967
Okiyama, M., 1971
Sanzo, L., 1912; 1913; 1913a; 1930
Silas, E.G. & K.C. George, 1971

3.4.3.2 Other Stomiatoid Families/Autres familles de poissons stomiatoides/
Otras familias de peces estomatoides

Beebe, W., 1934
Beebe, W. & J. Crane, 1939
Ege, V., 1934; 1948

3.5 Myctophiformes

Okiyama, M., 1974

3.5.1 Myctophidae

(see Moser and Ahlstrom 1970, for additional references)/(voir Moser et Ahlstrom 1970, pour références supplémentaires)/(véase Moser y Ahlstrom 1970, para otras referencias)

Moser, H.G. & E.H. Ahlstrom, 1970; 1972; 1974
Pertseva-Ostroumova, T.A., 1964; 1967; 1974
Taning, A.V., 1919

3.5.2 Other Myotophiform Families/Autres familles de poissons myotophiformes/
Otras familias de peces miotefiformes

Anderson, W.W., J.W. Gehringer & F.H. Berry, 1966
Ege, V., 1930; 1953; 1957; 1958
Gibbs, R.H., Jr., 1959
Johnson, R.K., 1971
Merrett, N.R., J. Badcock & P.J. Herring, 1973
Okiyama, M., 1974
Rofen, R.R., 1966; 1966a; 1966b
Zvjagina, O.A., 1965

3.6 Gadiformes

3.6.1 Gadoidei (Gadidae and Related)

Ahlstrom, E.H. & R.C. Counts, 1955
Barans, C.A. & A.C. Barans, 1972
Belyaninam, T.N., 1974
Cipria, G., 1939b
D'Ancona, U. & G. Cavinato, 1965
DeGaetani, D., 1928; 1933
Fischer, W.K., 1959
Gorbunova, N.N., 1954
Marak, R., 1967
Matthews, J.P., & V.v.D. DeJager, 1951
Miller, D. & R.R. Marak, 1959
Mukhacheva, V.A., 1957
Mukhacheva, V.A. & O.A. Zvyagina, 1960
Musick, J.A., 1969; 1974
Santander, H. & O.S. de Castillo, 1969a
Sauskan, V.I. & V.P. Serebriakov, 1968
Schmidt, J., 1905; 1906
Seaton, D.D. & R.S. Bailey, 1971
Yamamoto, G. & C. Nishioka, 1952
Yusa, T., 1954

3.6.2 Ophidioidae

3.6.2.1 Ophidiidae-Brotulidae

Nielsen, J.G., 1966
Sparta, A., 1929; 1932
Wourms, J.P. & O. Bayne, 1973

3.6.2.2. Carapidae

Sparta, A., 1925

3.7 Gobiescoiformes (Gobiesocidae)

Fujita, S. & Y. Dotsu, 1965
Runyan, S., 1961
Shiogaki, M. & Y. Dotsu, 1971; 1971a; 1971b; 1971c

3.8 Lophiiformes

Adams, J.A., 1960
Beretelsen, E., 1951
Fujita, S. & K. Uchida, 1959
Taning, A.V., 1923

3.9 Atheriniiformes

3.9.1 Atherinoidei (Atherinidae)

Chirinos de Vildoso, A. & E.D. Chuman, 1964
Ciechowski, J.D. de, 1972
Ehrlich, K.F. & D.A. Farris, 1970; 1971
Foster, N.R., 1968
Hildebrand, S.F., 1922

3.9.2 Exocoetoidei

3.9.2.1 Scomberescoidea

Hatanaka, M., 1956
Hatanaka, M. et al., 1953
Nakamura, S., 1937
Orton, G.L., 1964
Sanzo, L., 1940a
Yusa, T., 1960a

3.9.2.2 Exocoetidae

Gorbunova, N.N. & N.V. Parin, 1963
Hubbs, C.L. & E.M. Kampa, 1946
Kovalevskaya, N.V., 1964; 1965
Kovalevskaya, N.V., N.V. Khrapkova, 1963
Miller, D.J., 1952
Munro, I.S.R., 1954
Parin, N.V. & N.N. Gorbunova, 1964
Tsukahara, H. & T. Shiokawa, 1957
Tsukahara, H., T. Shiokawa & T. Inao, 1957

3.10 Beryciformes

3.10.1 Stephanoberycoidei (Melamphidae)

Ebeling, A.W., 1962
Ebeling, A.W. & W.H. Weed III, 1963; 1973

3.10.2 Holocentridae

McKenney, T.W., 1959

3.11 Lampridiformes

3.11.1 Trachypteroidi

Sanzo, L., 1918; 1925; 1940

3.11.2 Syngnathoidi

Nakamura, S., 1937
Takai, T. & A. Misokami, 1959

3.12 Scorpaeniformes

3.12.1 Scorpaenoidei (Scorpaenidae)

DeLacy, A.C., C.R. Hitt & R.L. Dryfoos, 1964
Efremenko, V.N. & L.A. Lisovenko, 1970

Fujita, S., 1957b; 1958; 1959
Fujita, S. & K. Nakurhara, 1955
Hits, G.R., 1962
Mito, S. & K. Uchida, 1958
Morris, R.W., 1956a
Moser, H.G., 1967; 1972; 1974
Orton, G.L., 1955b
Pearcy, W.G., 1962
Phillips, J.B., 1964
Shiokawa, T. & H. Tsukahara, 1961
Takai, T. & T. Fukunaga, 1971
Taning, A.V. 1961
Tsukahara, H., 1962
Waldron, K.D., 1968
Wales, J.W., 1952

3.12.2 Cottoidei

3.12.2.1 Cottidae

Bolin, R.L., 1941
Cowan, G.I. McT., 1970
Fujita, S., 1957
Gorbunova, N.N., 1964
Khan, N.Y. & D.J. Faber, 1974
Kyushin, K., 1970
Morris, R.W., 1951
O'Connell, C.P., 1953
Stein, R., 1973
Tsukahara, H., 1952
Zvjagina, O.A., 1963

3.12.2.2 Cyclopteridae

Kobayashi, K., 1962b

3.12.3 Hexagrammoidei

3.12.3.1 Hexagrammidae

Abe, T., 1951
Gorbunova, N.N., 1962
Kobayashi, K., 1958
Orlov, Yu I. & L.V. Polikashin, 1962
Yusa, T., 1967

3.12.3.2 Anoplopomatidae

Brock, V.E., 1940
Kobayashi, K., 1957
Kodolov, L.S., 1968

3.12.4 Platycephaloidei (Platycephalidae)

Fujita, S. & M. Uneno, 1956

3.13 Perciformes

3.13.1 Percoidei

Norcross, J.J. et al., 1974

3.13.1.1. Bramidae

Mead, G.W., 1972
Okada, Y. & K. Suzuki, 1956
Sanzo, L., 1928
Schmidt, J., 1918a

3.13.1.2. Branchiostegidae

Fisher, W.K., 1958
Okiyama, M., 1964

3.13.1.3. Carangidae

Ahlstrom, E.H. & O.P. Ball, 1954
Aprieto, V.L., 1974
Berry, F.H., 1959
Ciechomski, J.D. de & G. Weiss, 1973
Conand, F. & C. Franqueville, 1973
Demir, M., 1971
Demir, N., 1958
Fields, H.M., 1962
Haigh, E.H., 1972a
Kakamura, S., 1936
McKenney, T.W., E.C. Alexander & G.L. Voss, 1958
Miller, J. & B.Y. Sumida, 1974
Mitani, F., 1960
Makamura, S., 1936a
Okiyama, M., 1970
Santander, H. & O.S. de Castillo, 1971
Sanzo, L., 1931; 1933
Schankenbeck, W., 1931
Uchida, K. et al., 1958

3.13.1.4 Centropomidae

Chua, T.E., 1970

3.13.1.5 Chaetodontidae

Fujita, S. & S. Mito, 1960

3.13.1.6 Coryphaenidae

Mito, S., 1960

3.13.1.7 Kyphosidae

Kobayashi, K. & M. Igarashi, 1961
Mito, S., 1957a

3.13.1.8 Leiognathidae

Fujita, S., 1970

3.13.1.9 Oplegnathidae

Mito, S., 1956a

3.13.1.10 Pomacentridae

Fujita, S., 1957a
Limbaugh, C., 1964
Shaw, E.S., 1955
Turner, C.H. & E.E. Ebert, 1962

3.13.1.11 Priacanthidae

Caldwell, D.K., 1962

3.13.1.12 Rachycentridae

Dawson, C.E., 1971

3.13.1.13 Sciaenidae

Fujita, S., 1956b
Meyer-Rochow, V.B., 1972
Pearson, J.C. 1941
Welsh, W.W. & C.M. Breder, Jr., 1923

3.13.1.14 Serranidae

Guitart, M.D. & M.J. Fernandes, 1966
Kendall, A.W., Jr., 1972
Mito, S., 1957
Presley, R., 1970
Ukawa, M., M. Higuchi & S. Mito, 1966

3.13.1.15 Sillaginidae

Ueno, M. & S. Fujito, 1954

3.13.1.16 Sparidae

Cassie, R.M., 1956
Ciechomski, J.D. de & G. Weiss, 1973b
Mito, S., 1956
Sikama, Y., 1961

3.13.2 Acanthuroidei

Cipria, G., 1940
Fujita, S. & M. Ueno, 1954
Randall, J.E., 1961

3.13.3 Ammodytoidei

Einarsson, H., 1951; 1955
Kobayashi, K., 1961b
Macer, C.T., 1967
Norcross, J.J., W.H. Massmann & E.B. Joseph, 1961
Williams, G.C., S.W. Richards & E.G. Farnworth, 1964

3.13.4 Blennioidei

3.13.4.1 Blennidae

Cipria, G., 1934; 1936
Fives, J., 1970
Ford, E., 1922
Mito, S., 1954
Munro, I.S.R., 1955
Raju, S.N., 1971

3.13.4.2 Anarhichadidae

Kobayashi, K., 1961

3.13.4.3 Clinidae

Sparta, A., 1948a

3.13.4.4 Stichaeidae

Fujita, S. & K. Uchida, 1959a
Schultz, L.P. & A.C. Delacy, 1932

3.13.4.5 Ptilichthyidae

Kobayashi, K., 1961a

3.13.5 Gobioidae

Dotu, Y., 1954; 1955; 1955a; 1955b; 1956; 1956a; 1957; 1957a; 1957b; 1957c
1957d; 1958; 1958a; 1958b; 1958c; 1959; 1959a; 1961
Dotu, Y. & S. Mito, 1955; 1955a; 1958
Dotu, Y., S. Mito & M. Ueno, 1955
Dotu, Y. & M. Shiozaki, 1971
Dotu, Y. & T. Tsutsumi, 1959
Ebert, E.E. & C.H. Turner, 1962
Lebour, M.V., 1919
Nakamura, S., 1936
Shmove, Yu. V., 1971
Sparta, A., 1934; 1934a; 1936; 1950
Weisel, G.F., Jr., 1947

3.13.6 Icosteidae (Icosteidae)

Allen, G.H., 1968

3.13.7 Labroidae

3.13.7.1 Labridae

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Altan, H., 1957a
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3.13.9 Scombroidei

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3.13.9.1 Scombridae

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