

**INTER-AMERICAN TROPICAL TUNA COMMISSION  
COMISION INTERAMERICANA DEL ATUN TROPICAL**

Special Report--Informe Especial

No. 8

**AN INDEXED BIBLIOGRAPHY OF PAPERS ON TAGGING OF  
TUNAS AND BILLFISHES**

**compiled by--compilado por**

**William H. Bayliff**

La Jolla, California

1993

The Inter-American Tropical Tuna Commission operates under the authority and direction of a convention originally entered into by Costa Rica and the United States. The convention, which came into force in 1950, is open to adherence by other governments whose nationals fish for tropical tunas in the eastern Pacific Ocean. Under this provision Panama adhered in 1953, Ecuador in 1961, Mexico in 1964, Canada in 1968, Japan in 1970, and France and Nicaragua in 1973. Ecuador withdrew from the Commission in 1968, Mexico in 1978, Costa Rica in 1979, and Canada in 1984. Costa Rica rejoined the Commission in 1989, Vanuatu joined in 1990, and Venezuela joined in 1992.

The principal duties of the Commission under the convention are (1) to study the biology of the tunas and related species of the eastern Pacific Ocean with a view to determining the effects that fishing and natural factors have on their abundance and (2) to recommend appropriate conservation measures so that the stocks of fish can be maintained at levels which will afford maximum sustainable catches.

In 1976 the Commission's duties were broadened to include problems arising from the tuna-dolphin relationship in the eastern Pacific Ocean. As its objectives it was agreed that, "the Commission should strive [1] to maintain a high level of tuna production and also [2] to maintain porpoise stocks at or above levels that assure their survival in perpetuity, [3] with every reasonable effort being made to avoid needless or careless killing of porpoise." The specific areas of involvement were to be (1) monitoring population sizes and mortality incidental to fishing through the collection of data aboard tuna purse seiners, (2) aerial surveys and dolphin tagging, (3) analyses of indices of abundance, and (4) gear and behavioral research and education.

The Commissioners serving at the time of publication are:

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La Comisión Interamericana del Atún Tropical funciona bajo la autoridad y dirección de un convenio establecido originalmente por Costa Rica y los Estados Unidos. El convenio, vigente desde 1950, está abierto a la afiliación de otros gobiernos cuyos ciudadanos pescan atunes en el Océano Pacífico oriental. Bajo esta estipulación, Panamá se afilió en 1953, Ecuador en 1961, México en 1964, Canadá en 1968, Japón en 1970, y Francia y Nicaragua en 1973. Ecuador se retiró de la Comisión en 1968, México en 1978, Costa Rica en 1979, y Canadá en 1984. Costa Rica se afilió de nuevo en 1989, Vanuatu se afilió en 1990, y Venezuela se afilió en 1992.

Las obligaciones principales de la Comisión bajo el convenio son (1) estudiar la biología de los atunes y especies afines en el Océano Pacífico oriental para determinar las consecuencias de la pesca y los factores naturales sobre su abundancia y (2) recomendar las medidas de conservación apropiadas para que los stocks de peces puedan mantenerse a niveles que permitan capturas máximas sostenibles.

En 1976 se ampliaron las obligaciones de la Comisión al incluir los problemas ocasionados por la relación atún-delfín en el Océano Pacífico oriental. Se acordó que sus objetivos serían: "[1] mantener la producción atunera a un alto nivel; [2] mantener las poblaciones de delfines a niveles o sobre niveles que garanticen su supervivencia a perpetuidad; [3] trabajar en cuanto sea posible para evitar la muerte innecesaria o por descuido de los delfines en las

maniobras de pesca." Los puntos específicos de participación son: (1) observar la magnitud de las poblaciones y la mortalidad incidental a la pesca, mediante la toma de datos a bordo de embarcaciones atuneras de cerco; (2) realizar reconocimientos aéreos y marcado de delfines; (3) analizar los índices de abundancia de los delfines y (4) proceder al entrenamiento e investigación sobre las artes de pesca y el comportamiento de los delfines.

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An important part of the work of the Inter-American Tropical Tuna Commission is the prompt publication and wide distribution of its research results. The Commission publishes its results in its Bulletin and Special Report series. The Bulletins contain reports of original research carried out by members of its staff and other scientists. These are reviewed by scientists of other organizations before being accepted for publication. They are issued on an irregular basis, and the volumes are closed when they reach about 500 to 600 pages. The Special Reports contain material other than original scientific research, which is nevertheless of interest to a wide segment of the scientific community.

The Commission also publishes Annual Reports and Quarterly Reports, which include policy actions of the Commission, information on the fishery, and reviews of the year's or quarter's work carried out by the staff. The Annual Reports also contain financial statements and a roster of the IATTC staff.

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yyyEditor--Redactorxxx  
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## INTRODUCTION

Two working parties, the Working Party on Tuna Tagging in the Pacific and Indian Oceans and the Working Party on Tuna Tagging in the Atlantic and Adjacent Seas, were formed by the Food and Agriculture Organization (FAO) of the United Nations in 1966 (Anonymous, 1966c). The conveners of these working parties were Dr. James Joseph of the Inter-American Tropical Tuna Commission (IATTC) and Mr. Frank J. Mather, III, of the Woods Hole Oceanographic Institution (WHOI). In 1969 it was recommended that the working parties direct their attention toward billfishes, as well as tunas (Anonymous, 1969h: 5). One report (Joseph and working party, 1969) was published by the Pacific and Indian Oceans group and two (Mather and working party, 1969 and 1972) were published by the Atlantic Ocean and adjacent seas group.

The working party on the Atlantic Ocean and adjacent seas was disbanded in 1972, as it was thought that its functions could be carried out adequately by the newly-formed International Commission for the Conservation of Atlantic Tunas. Dr. William H. Bayliff of the IATTC replaced Dr. Joseph as convener of the Pacific and Indian Oceans working party in 1970. Its name was changed to the Working Party on Tuna and Billfish Tagging in the Pacific and Indian Oceans in 1971. In 1985 its purview was expanded to include the Atlantic Ocean and adjacent seas, as recommended by an *ad hoc* group of tuna scientists which met in La Jolla, California, in 1984 (Joseph and Wild, 1984), and its name was changed to the Working Party on Tuna and Billfish Tagging. In 1987 this working party was disbanded by FAO, but it has continued its work informally since then.

Each of the three working party reports included a bibliography of tuna and billfish tagging. The compiler of this bibliography, beginning in 1970, prepared numerous memoranda to the members of the working party, most of which included lists of papers on tuna and billfish tagging which had come to his attention, either directly or through members of the working party. The bibliographies in the three working party reports and the lists of references in the memoranda form the basis for the present bibliography.

The great majority of the references listed in this bibliography were seen by its compiler; the few which were not are indicated by asterisks to the left of the author's name. The Index contains classifications of the references by species, ocean, and subject. In many cases a reference mentions that fish of a particular species were tagged in a particular ocean, but does not discuss any subject, such as growth, mortality, or movements. Such references are included in the list of references, but not in the Index unless there were no references for that species in that ocean which dealt with any of the subjects considered. For example, only two references which briefly mention tagging of *Acanthocybium solandri* could be found, so these are listed in the Index. Scores of such references were found for *Thunnus albacares* in the Pacific and Atlantic Oceans, but since there were also many references for growth, mortality, movement, etc., the references with only brief mention of tagging of that species in those oceans are not listed. References on materials and methods and on design of tagging experiments are listed at the end of the Index, as these are applicable, in most cases, to more than one species and to any ocean. None of the references with an asterisk to the left of the author's name is included in the Index.

The scientific nomenclature in this report follows the classifications of Collette and Nauen (1983) and Nakamura (1985).

References on tuna and billfish tagging will continue to be collected, and perhaps supplements or new editions will eventually be published. Accordingly, the compiler of this report would appreciate it if new references



on this subject, and also references published prior to the time of publication of this bibliography which were overlooked, were brought to his attention.

An appendix, listing suppliers of tagging materials, appears at the end of this volume.

Financial assistance for publishing and distributing this bibliography, obtained from the FAO program, Cooperative Research on Interactions of Pacific Tuna Fisheries, is gratefully acknowledged.

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Two indices follow, Index A and Index B. I don't know which one was used in Special Report 8.

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### **Wahoo, <f=2>Acanthocybium solandri<f=1>, Pacific Ocean**

Brief mention

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Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985c; Anonymous, 1985f; Anonymous, 1991b; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Bayliff, 1983; Bayliff, 1984; Ellway <f=2>et al.<f=1>, 1983; Fink and Bayliff, 1970; Gillett and Kearney, 1983; Habib <f=2>et al.<f=1>, 1979; Habib <f=2>et al.<f=1>, 1980a; Habib <f=2>et al.<f=1>, 1980b; Habib <f=2>et al.<f=1>, 1981; Hilborn, 1987; Hilborn, 1989; Hilborn and Sibert, 1988; Kearney, 1982a; Kearney, 1982b; Kearney, 1983; Kleiber, Argue, and Kearney, 1983a; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lewis, 1991; Mullen, 1989; Polacheck, 1990; Sibert, 1984; Ward and Caton, 1992

#### Mortality

Anonymous, 1958i; Anonymous, 1964i; Anonymous, 1982h; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984b; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985b; Anonymous, 1985f; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Asano, 1991; Barrett, 1965; Bayliff, 1977; Ellway <f=2>et al.<f=1>, 1983; Fink, 1965a; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1987; Gillett and Kearney, 1983; Hunter <f=2>et al.<f=1>, 1986; Inoue, 1973; Joseph and Calkins, 1969; Joseph and working party, 1969; Kawasaki, 1965; Kearney, 1977a; Kearney, 1982a; Kearney, 1982b; Kearney, 1983; Kearney, 1986; Kearney, 1989; Kleiber <f=2>et al.<f=1>, 1983a; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber, Chivers, and Weber, 1984; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lewis, 1980b; Lewis and Hampton, 1992; Marr, 1963a; Matsumoto, 1975; Matsumoto <f=2>et al.<f=1>, 1984; Mullen, 1989; Peterson, 1966; Peterson, 1967; Peterson, 1968; Peterson, 1969; Peterson, 1975; Peterson, 1976; Peterson, 1985; Rothschild, 1966; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1960; Schaefer, 1961; Schaefer, 1963; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963; Sibert, 1984; Tauchi, 1943

#### Movements

Anonymous, 1955j; Anonymous, 1955p; Anonymous, 1955q; Anonymous, 1956h; Anonymous, 1956i; Anonymous, 1956u; Anonymous, 1957j; Anonymous, 1957o; Anonymous, 1957u; Anonymous, 1957aa; Anonymous, 1958e; Anonymous, 1958k; Anonymous, 1958m; Anonymous, 1958r; Anonymous, 1958s; Anonymous, 1958v; Anonymous, 1959a; Anonymous, 1959b; Anonymous, 1959c; Anonymous, 1959d; Anonymous, 1959i; Anonymous, 1960g; Anonymous, 1962f; Anonymous, 1962i; Anonymous, 1964i; Anonymous, 1967d; Anonymous, 1969i; Anonymous, 1975a; Anonymous, 1977a; Anonymous, 1979c; Anonymous, 1979d; Anonymous, 1979i; Anonymous, 1980c; Anonymous, 1980d; Anonymous, 1980g; Anonymous, 1981c; Anonymous, 1981d; Anonymous, 1982h; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984b; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985b; Anonymous, 1985c; Anonymous, 1985f; Anonymous, 1985g; Anonymous, 1986u; Anonymous, 1991a; Anonymous, 1991b; Asano, 1991; Argue, 1981; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Argue <f=2>et al.<f=1>, 1986; Barrett, 1965; Bayliff, 1983; Bayliff, 1984; Bayliff, 1989; Blackburn and Williams, 1975; Blunt and Messersmith, 1960; Brock, 1965; Brock and Marr, 1960; Caton, 1980; Clemens, no date; Clemens and Roedel, 1964; Ellway <f=2>et al.<f=1>, 1983; Fink, 1966; Fink and Bayliff, 1970; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1988; Frey, 1971; Fujino, 1967; Fujino, 1972; Ganaden, 1987; Gillett and Kearney, 1983; Habib <f=2>et al.<f=1>, 1979; Habib, Clement, and Iwasa, 1982; Habib <f=2>et al.<f=1>, 1980a; Habib <f=2>et al.<f=1>, 1980b; Habib <f=2>et al.<f=1>, 1981; Habib and Voss, 1980; Hilborn, 1987; Hilborn, 1989; Hilborn, 1990; Hilborn and Sibert, 1988; Hunter <f=2>et al.<f=1>, 1986; Instituto Nacional de Pesca, 1980; Iwasa <f=2>et al.<f=1>, 1982; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1964; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Josse <f=2>et al.<f=1>, 1979; Kasahara, 1968; Kasahara <f=2>et al.<f=1>, 1971; Kawasaki, 1965; Kawasaki, 1973; Kearney, 1975; Kearney, 1977a; Kearney, 1978d; Kearney, 1979; Kearney, 1980; Kearney, 1981; Kearney, 1982a; Kearney, 1982b; Kearney, 1983; Kearney, 1986; Kearney, 1989; Kitchell, 1980; Kleiber <f=2>et al.<f=1>, 1983a; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber and Kearney, 1983; Landberg, 1966; Lawson and Kearney, 1982; Lewis, 1977b;

Lewis, 1980a; Lewis, 1980b; Lewis, 1991; Lewis and Hampton, 1992; Marr, 1963a; Matsumoto, 1975; Matsumoto <f=2>et al.<f=1>, 1984; Merta and Suhendrata, 1985; Mullen, 1989; Naamin, 1991; Otsu, 1970; Ottesen and Grant, 1982; Peterson, 1966; Peterson, 1967; Peterson, 1968; Peterson, 1969; Peterson, 1970; Peterson, 1971; Peterson, 1973; Peterson, 1974; Peterson, 1975; Peterson, 1977; Peterson, 1978; Peterson, 1979; Peterson, 1981; Peterson, 1982; Peterson, 1983; Peterson, 1984; Polacheck, 1990; Rothschild, 1963; Rothschild, 1965; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1959; Schaefer, 1960; Schaefer, 1961; Schaefer, 1962; Schaefer, 1963; Schaefer, 1967; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963; Seckel, 1972; Sharp, 1983; Shomura, 1988; Sibert, 1984; Sibert, 1986; Sprague, 1963; Staff of the Bureau of Commercial Fisheries Biological Laboratories at Honolulu, San Diego, and Stanford, 1963; Sund <f=2>et al.<f=1>, 1981; Tenneson, 1989; Tesch, 1980; Uda, 1972; Uktolseja, 1987; Uktolseja, 1989; Waldron, 1963; Wankowski and Gwyther, 1980; Williams, 1972; Yamashita and Waldron, 1959; Yasui and Mori, 1985; Yonemori <f=2>et al.<f=1>, 1985

#### Physiology

Barrett and Conner, 1962; Barrett and Conner, 1964; Schaefer, 1962; Schaefer, 1963

#### Schooling

Anonymous, 1960g; Bayliff, 1987; Bayliff, 1988c; Hilborn, 1991; Hunter <f=2>et al.<f=1>, 1986; Peterson, 1984

#### Shedding of tags

Anonymous, 1964l; Anonymous, 1991a; Barrett, 1965; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber, Chivers, and Weber, 1984

#### Sonic or archival tagging

Anonymous, 1969b; Anonymous, 1969g; Anonymous, 1976b; Cayré and Chabanne, 1986; Cayré, Chabanne, Moarii, and Ugolini, 1986; Dizon <f=2>et al.<f=1>, 1978; Evans, 1981; Holland <f=2>et al.<f=1>, 1985; Hunter <f=2>et al.<f=1>, 1986; Kitchell, 1980; Matsumoto <f=2>et al.<f=1>, 1984; Tesch, 1980; Yonemori, 1982; Yuen, 1970

#### Stock structure

Anonymous, 1958s; Anonymous, 1960g; Anonymous, 1961d; Anonymous, 1967d; Anonymous, 1977a; Anonymous, 1980g; Anonymous, 1981d; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984b; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985b; Anonymous, 1985f; Argue, 1981; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Argue <f=2>et al.<f=1>, 1986; Asano, 1991; Bayliff, 1983; Bayliff, 1984; Bayliff, 1988b; Brock and Marr, 1960; Caton, 1980; Ellway <f=2>et al.<f=1>, 1983; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1988; Fujino, 1967; Fujino, 1972; Ganaden, 1987; Gillett and Kearney, 1983; Hunter <f=2>et al.<f=1>, 1986; Joseph, 1973; Joseph <f=2>et al.<f=1>, 1964; Joseph and working party, 1969; Kasahara, 1968; Kearney, 1975; Kearney, 1982b; Kearney, 1983; Kearney, 1986; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lewis, 1991; Marr, 1963a; Matsumoto, 1975; Matsumoto <f=2>et al.<f=1>, 1984; Ottesen and Grant, 1982; Peterson, 1983; Richardson, 1983; Rothschild, 1963; Rothschild, 1965; Schaefer, 1957b; Schaefer, 1958; Schaefer, 1967; Sharp, 1983; Shomura, 1988; Sprague, 1963; Staff of the Bureau of Commercial Fisheries Biological Laboratories at Honolulu, San Diego, and Stanford, 1963; Williams, 1972

### **Bonito, <f=2>Sarda<f=1> sp., Atlantic Ocean**

#### Brief mention

Akyüz, 1966; Akyüz, 1970; Aloncle, 1977; Aloncle <f=2>et al.<f=1>, 1976; Anonymous, 1974f; Bard <f=2>et al.<f=1>, 1988; Beckett, 1970; Brêthes, 1978; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1986; Cayré, 1987; Diouf, 1983; Diouf, 1986; González-Garcés, 1981; González-Garcés, 1983; Mather, 1963b; Mather and working party, 1969; Miyake, 1990; Nakamura, 1987; Rey, 1978; Rey and Cort, 1979

#### Growth

Rey and Cort, 1978

#### Movements

Demir, 1963; Rey <f=2>et al.<f=1>, 1984; Rey and Cort, 1978; Rey and Cort, 1981a; Rey and Cort, 1981b



### **Bonito, <f=2>Sarda<f=1> sp., Pacific Ocean**

#### Brief mention

Anonymous, 1952a; Bayliff and Holland, 1986; Pepperell, 1990b

#### Growth

Campbell and Collins, 1975

#### Movements

Collins and MacCall, 1977; Frey, 1971; Thayer, 1973; Yoshida, 1980a; Yoshida, 1980b

#### Stock structure

Yoshida, 1980a; Yoshida, 1980b

### **Albacore tuna, <f=2>Thunnus alalunga<f=1>, Atlantic Ocean**

#### Brief mention

Akyüz, 1966; Akyüz, 1970; Aloncle, 1977; Aloncle, 1979; Aloncle, 1980a; Aloncle and Delaporte, 1971; Aloncle and Delaporte, 1973b; Aloncle and Delaporte, 1979; Anonymous, 1964c; Anonymous, 1964k; Anonymous, 1965b; Anonymous, 1969h; Anonymous, 1974f; Anonymous, 1977e; Anonymous, 1988f; Anonymous, 1988g; Anonymous, 1990a; Brêthes and Mason, 1979; Cendrero, 1973; Cort, 1986; Cort, 1987; Cort, 1989; Cort, 1990a; Cort and Cárdenas, 1978; Cort <f=2>et al.<f=1>, 1980; Cort and Rey, 1979; Cort <f=2>et al.<f=1>, 1981; Cort, 1989; González-Garcés, 1984; González-Gárce, 1986; González-Gárce, 1987; González-Gárce <f=2>et al.<f=1>, 1977; Guerault, 1981; Hunter <f=2>et al.<f=1>, 1986; Lamboeuf, 1973; Lavin <f=2>et al.<f=1>, 1991; Letaconnou, 1971; Letaconnou, 1974; Letaconnou, 1976; Mather, 1963b; Miyake, 1990; Rey and Cort, 1982; Rey and Cort, 1985; Rodríguez-Roda, 1964b; Stander, 1972; Stander, 1973; Stander, 1974; The Spanish Institute of Oceanography, 1991

#### Growth

Aloncle <f=2>et al.<f=1>, 1978; Anonymous, 1992c; Cort and Mejuto, 1990; Scott <f=2>et al.<f=1>, 1990

#### Mortality

Anonymous, 1975c; Hue, 1979; Mather and working party, 1969

#### Movements

Allain, 1967; Allain and Aloncle, 19668; Aloncle, 1978; Aloncle and Delaporte, 1970; Aloncle and Delaporte, 1973a; Aloncle and Delaporte, 1974a; Aloncle and Delaporte, 1974b; Aloncle and Delaporte, 1975; Aloncle and Delaporte, 1976; Aloncle and Delaporte, 1978; Aloncle and Delaporte, 1980; Aloncle and Delaporte, 1982; Aloncle <f=2>et al.<f=1>, 1972; Aloncle <f=2>et al.<f=1>, 1976; Aloncle <f=2>et al.<f=1>, 1977; Aloncle <f=2>et al.<f=1>, 1978; Anonymous, 1977c; Anonymous, 1977f; Anonymous, 1979e; Anonymous, 1980f; Cort, 1982b; Cort and de la Serna, 1991; Cort and Mejuto, 1990; Cort <f=2>et al.<f=1>, 1992; Delaporte and Guérault, 1980; González-Gárce, 1985; Hue, 1980; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Le Gall, 1974; Letaconnou, 1963; Letaconnou, 1972; Letaconnou, 1973; Letaconnou, 1975; Mather and Mason, 1973; Mather and working party, 1969; Mather and working party, 1972; Mejuto, 1984; Mejuto, 1985; Shomura, 1988; Santos Guerra and García-Ramos, 1985; Scott <f=2>et al.<f=1>, 1990

#### Stock structure

Aloncle and Delaporte, 1974a; Aloncle and Delaporte, 1978; Anonymous, 1977c; Anonymous, 1979e; Anonymous, 1980f; Anonymous, 1992c; Delaporte and Guérault, 1980; Hue, 1979; Hue, 1980; Letaconnou, 1973; Mather and Mason, 1973

### **Albacore tuna, <f=2>Thunnus alalunga<f=1>, Indian Ocean**

#### Brief mention

Takahashi <f=2>et al.<f=1>, 1988

### **Albacore tuna, <f=2>Thunnus alalunga<f=1>, Pacific Ocean**

## Brief mention

Akyüz, 1966; Akyüz, 1970; Alverson and Chenoweth, 1951; Alverson and Chatwin, 1964; Anonymous, 1950d; Anonymous, 1952b; Anonymous, 1953a; Anonymous, 1953h; Anonymous, 1954a; Anonymous, 1954c; Anonymous, 1954k; Anonymous, 1955a; Anonymous, 1955d; Anonymous, 1955j; Anonymous, 1955l; Anonymous, 1955o; Anonymous, 1955v; Anonymous, 1956a; Anonymous, 1956d; Anonymous, 1956n; Anonymous, 1956p; Anonymous, 1956u; Anonymous, 1956v; Anonymous, 1956y; Anonymous, 1957b; Anonymous, 1957c; Anonymous, 1957f; Anonymous, 1957x; Anonymous, 1957y; Anonymous, 1958h; Anonymous, 1959h; Anonymous, 1959k; Anonymous, 1960f; Anonymous, 1960h; Anonymous, 1960i; Anonymous, 1961c; Anonymous, 1962e; Anonymous, 1963f; Anonymous, 1963g; Anonymous, 1963k; Anonymous, 1964g; Anonymous, 1964h; Anonymous, 1964k; Anonymous, 1972a; Anonymous, 1972b; Anonymous, 1972g; Anonymous, 1980a; Anonymous, 1986a; Anonymous, 1987a; Anonymous, 1987b; Anonymous, 1988b; Anonymous, 1991b; Argue and Kearney, 1983; Bailey, 1987a; Bailey, 1987b; Bayliff and Holland, 1986; Beardsell, 1987; Bell, 1964; Clemens, 1966b; CSIRO Division of Fisheries and Oceanography, 1961; Godsil, 1936; Graham, 1957; Graham, 1959; Habib and Carey, 1981; Habib, Clement, Iwasa, Swanson, and Bailey, 1982; Habib <f=2>et al.<f=1>, 1981; Ichikawa, 1981; Iwasa <f=2>et al.<f=1>, 1982; Kearney, 1980; Kearney, 1981; Kearney and Gillett, 1979b; Kearney and Hallier, 1979a; Lewis and Hampton, 1992; Matthews and Deguara, 1992; McGary and Graham, 1960; Murray, 1987; Murray and Bailey, 1986; Owen, 1963; Partlo, 1951; Pepperell, 1990b; Powell, 1950; Powell <f=2>et al.<f=1>, 1952; Roberts, 1974; Robins, 1960; Scagel, 1949; Schaefers, 1952; Strasburg, 1969; Suda, 1966; Thomson, 1962; Watkins, 1987; Wilson, 1953; Yamanaka, 1966

## Growth

Anonymous, 1956h; Anonymous, 1957p; Anonymous, 1957aa; Anonymous, 1958g; Anonymous, 1958n; Anonymous, 1958v; Anonymous, 1981a; Anonymous, 1988c; Anonymous, 1992m; Anonymous, 1992p; Brock and Marr, 1960; Clemens, 1961; Clemens, 1962; Clemens and Roedel, 1964; Foreman, 1980a; Foreman, 1980b; Hunter <f=2>et al.<f=1>, 1986; Joseph and working party, 1969; Labelle, 1992; Laurs, 1983; Laurs <f=2>et al.<f=1>, 1985; Laurs and Wetherall, 1981; Murray, 1990; Otsu, 1960; Otsu and Uchida, 1959; Otsu and Uchida, 1963; Shomura, 1966; Yoshida and Otsu, 1963

## Interactions

Labelle, 1992; Rothschild and Yong, 1970

## Mortality

Inoue, 1973; Joseph and working party, 1969

## Movements

Anonymous, 1954f; Anonymous, 1954l; Anonymous, 1954m; Anonymous, 1955r; Anonymous, 1956h; Anonymous, 1956l; Anonymous, 1956z; Anonymous, 1956bb; Anonymous, 1957d; Anonymous, 1957m; Anonymous, 1957n; Anonymous, 1957p; Anonymous, 1957aa; Anonymous, 1958g; Anonymous, 1958n; Anonymous, 1958r; Anonymous, 1958s; Anonymous, 1958u; Anonymous, 1958v; Anonymous, 1959a; Anonymous, 1959d; Anonymous, 1960c; Anonymous, 1960e; Anonymous, 1962j; Anonymous, 1962k; Anonymous, 1963e; Anonymous, 1981a; Anonymous, 1988c; Anonymous, 1992m; Anonymous, 1992p; Blunt, 1954; Brock, 1965; Brock and Marr, 1960; Clemens, 1961; Clemens, 1962; Clemens, 1966a; Clemens and Roedel, 1964; Foreman, 1980a; Foreman, 1980b; Frey, 1971; Gansele and Clemens, 1953; Graham, 1956; Hunter <f=2>et al.<f=1>, 1986; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Kikawa <f=2>et al.<f=1>, 1977; Labelle, 1992; Landberg, 1966; Laurs, 1983; Laurs and Lynn, 1977; Laurs and Lynn, 1991; Marr, 1963a; Mather, 1969; McGary <f=2>et al.<f=1>, 1961; Murray, 1990; Otsu, 1960; Otsu and Uchida, 1959; Otsu and Uchida, 1962; Otsu and Uchida, 1963; Rothschild and Yong, 1970; Schaefer, 1967; Sharp and Dotson, 1977; Shomura, 1988; Shomura and Otsu, 1956; Suda, 1962; Suda, 1963; Sund <f=2>et al.<f=1>, 1981; Ueyanagi, 1980; Van Campen and Murphy, 1957; Yoshida and Otsu, 1963

## Shedding of tags

Clemens, 1961; Laurs <f=2>et al.<f=1>, 1976

## Sonic or archival tagging

Anonymous, 1982a; Evans, 1981; Holland <f=2>et al.<f=1>, 1985; Holts, 1985; Hunter <f=2>et al.<f=1>, 1986; Laurs, 1972; Laurs <f=2>et al.<f=1>, 1977; Pepperell and Holland, 1992; Tesch, 1980

## Stock structure

Anonymous, 1956l; Anonymous, 1957n; Anonymous, 1957p; Anonymous, 1957w; Anonymous, 1958r; Anonymous, 1958s; Anonymous, 1958u; Anonymous, 1959j; Anonymous, 1960a; Anonymous, 1960c; Anonymous, 1960e; Anonymous, 1961a; Anonymous, 1961d; Anonymous, 1980e; Anonymous, 1992p; Clemens, 1961; Clemens, 1962; Graham, 1956; Hunter <f=2>et al.<f=1>, 1986; Joseph and working party, 1969; Laurs, 1983; Laurs and Lynn, 1977; Laurs and Lynn, 1991; McGary <f=2>et al.<f=1>, 1961; Otsu, 1960; Otsu and Uchida, 1962; Otsu and Uchida, 1963; Rothschild and Yong, 1970; Shomura, 1988; Suda, 1962; Suda, 1963; Sund <f=2>et al.<f=1>, 1981; Yoshida and Otsu, 1963

### **Yellowfin tuna, <f=2>Thunnus albacares<f=1>, Atlantic Ocean**

#### **Brief mention**

Akyüz, 1966; Akyüz, 1970; Amon Kothias and Bard, 1987; Anonymous, 1963a; Anonymous, 1964b; Anonymous, 1964k; Anonymous, 1965b; Anonymous, 1979g; Anonymous, 1981g; Anonymous, 1982g; Anonymous, 1986m; Anonymous, 1986n; Anonymous, 1986q; Anonymous, 1987e; Anonymous, 1988a; Anonymous, 1988e; Anonymous, 1988f; Anonymous, 1988h; Bard and Amon Kothias, 1988; Bard, Mensah, and Vendeville, 1987; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1981; Cayré, 1983; Delgado de Molina and Santana, 1987; Far Seas Fisheries Research Laboratory, 1982; González-Garcés, 1985; González-Garcés, 1986; González-Garcés, 1987; Guzmán, 1989; Hunter <f=2>et al.<f=1>, 1986; Instituto Español de Oceanografía, 1992; Kume, 1981a; Kume, 1981b; Letaconnoux, 1972; Letaconnoux, 1973; Mather, 1963a; Mather, 1963b; Mather and Mason, 1973; Mather and working party, 1969; Mensah, 1988; Nakamura, 1987; National Marine Fisheries Service, 1974; National Marine Fisheries Service, 1989; Negreiros Aragão, 1978; Negreiros Aragão, 1979; Rinaldo and Vergne, 1981; Santa Rita Viera, 1982; Santa Rita Viera <f=2>et al.<f=1>, 1983; Santos Guerra and García-Ramos, 1985; Santos Guerra and Torres Nuñez, 1981; Stander, 1972; Stander, 1973; Symons, 1981; The Spanish Institute of Oceanography, 1991; Tibbo and Beckett, 1971; Yamaguchi and Kikawa, 1982

#### **Growth**

Anonymous, 1986d; Anonymous, 1991d; Bard, 1984a; Bard, 1985; Bard, 1989; Bard and Amon Kothias, 1986b; Bard, Amon Kothias, and Holzapfel, 1987; Bard and Scott, 1989; Bard <f=2>et al.<f=1>, 1991; Capisano and Fonteneau, 1991; Cayré <f=2>et al.<f=1>, 1988; Fonteneau, 1973; Fonteneau, 1980; Fonteneau, 1981; Fonteneau, 1986; Gong and Lee, 1983; Miyabe, 1984; Miyake, 1990

#### **Interactions**

Anonymous, 1991d; Fonteneau, 1981; Fonteneau, 1986; Hilborn and Sibert, 1988; Miyake, 1990

#### **Mortality**

Fonteneau, 1973

#### **Movements**

Amon Kothias and Bard, 1985; Anonymous, 1979e; Anonymous, 1986d; Anonymous, 1986o; Anonymous, 1991d; Bard, 1989; Bard and Amon Kothias, 1986b; Bard, Amon Kothias, and Holzapfel, 1987; Bard and Cayré, 1986; Bard <f=2>et al.<f=1>, 1988; Bard and Scott, 1989; Bard and Scott, 1991; Bard and Scott, 1992; Beckett, 1970; Browder <f=2>et al.<f=1>, 1991; Cayré <f=2>et al.<f=1>, 1974; Fonteneau, 1973; Fonteneau, 1981; Fonteneau, 1982; Fonteneau, 1992a; Gong and Lee, 1983; Hilborn and Sibert, 1988; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mather and working party, 1972; Miyake, 1990; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; Shomura, 1988; Suárez Caabro and Duarte Bello, 1961

#### **Stock structure**

Anonymous, 1978d; Anonymous, 1979e; Anonymous, 1991d; Bard, 1989; Bard and Cayré, 1986; Bard <f=2>et al.<f=1>, 1988; Bard and Scott, 1989; Bard and Scott, 1991; Bard and Scott, 1992; Cayré <f=2>et al.<f=1>, 1974; Fonteneau, 1973; Fonteneau, 1981; Fonteneau, 1982; Fonteneau, 1992a; Miyake, 1990

### **Yellowfin tuna, <f=2>Thunnus albacares<f=1>, Indian Ocean**

#### **Brief mention**

Anonymous, 1970b; Anonymous, 1988d; Anonymous, 1990d; Anonymous, 1991a; Anonymous, 1991c; Rochepeau, 1991a; Shomura, 1987; Takahashi <f=2>et al.<f=1>, 1988; Waheed, 1991

#### **Growth**

Anonymous, 1990c; Cayré and Ramcharrun, 1991; Fonteneau, 1992b; Yesaki and Waheed, 1991; Yesaki and Waheed, 1992

Movements

Anonymous, 1990c; Anonymous, 1992a; Cayré, 1991a; Cayré and Ramcharrun, 1991; Nishida, 1991a; Nishida, 1991b; Rochepeau, 1991b; Yano, 1991; Yesaki and Waheed, 1991; Yesaki and Waheed, 1992

Sonic or archival tagging

Association Thonière-Commission de l'Océan Indien, 1991; Cayré, 1991a; Cayré, 1991b

Stock structure

Anonymous, 1992a; Fonteneau, 1992b; Nishida, 1991b; Yesaki and Waheed, 1991

**Yellowfin tuna, <f=2>Thunnus albacares<f=1>, Pacific Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Alverson and Chatwin, 1964; Anonymous, 1950a; Anonymous, 1950c; Anonymous, 1952a; Anonymous, 1953c; Anonymous, 1953d; Anonymous, 1953f; Anonymous, 1953h; Anonymous, 1954d; Anonymous, 1954h; Anonymous, 1955a; Anonymous, 1955b; Anonymous, 1955c; Anonymous, 1955e; Anonymous, 1955f; Anonymous, 1955h; Anonymous, 1955i; Anonymous, 1955j; Anonymous, 1955m; Anonymous, 1955t; Anonymous, 1955u; Anonymous, 1956b; Anonymous, 1956c; Anonymous, 1956e; Anonymous, 1956g; Anonymous, 1956i; Anonymous, 1956j; Anonymous, 1956k; Anonymous, 1956o; Anonymous, 1956r; Anonymous, 1956s; Anonymous, 1956w; Anonymous, 1956x; Anonymous, 1957a; Anonymous, 1957d; Anonymous, 1957e; Anonymous, 1957g; Anonymous, 1957h; Anonymous, 1957i; Anonymous, 1957r; Anonymous, 1958c; Anonymous, 1958j; Anonymous, 1958k; Anonymous, 1958s; Anonymous, 1958w; Anonymous, 1959g; Anonymous, 1963k; Anonymous, 1964b; Anonymous, 1964k; Anonymous, 1970a; Anonymous, 1972e; Anonymous, 1972g; Anonymous, 1977h; Anonymous, 1977i; Anonymous, 1978b; Anonymous, 1980a; Anonymous, 1980h; Anonymous, 1981c; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1984c; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985b; Anonymous, 1985f; Anonymous, 1986c; Anonymous, 1986e; Anonymous, 1986u; Anonymous, 1987d; Anonymous, 1990c; Anonymous, 1991b; Anonymous, 1992b; Anonymous, 1992h; Arce and Barut, 1989; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Bayliff, 1973; Bayliff, 1988a; Bayliff and Holland, 1986; Bayliff and Hunt, 1981; Beckett, 1970; Broadhead, 1959; Caton, 1987; CSIRO Division of Fisheries and Oceanography, 1961; Ellway <f=2>et al.<f=1>, 1983; Fink, 1965b; Foreman, 1987; Gillett and Kearney, 1980; Gillett and Kearney, 1983; Godsil, 1936; Godsil, 1938; Graham, 1957; Habib, Clement, Iwasa, Swanson, and Bailey, 1982; Habib and Voss, 1980; Hallier and Kearney, 1980; Hida, 1970b; Hynd, 1968; Ishida, 1989; Itano, 1991; Iwasa <f=2>et al.<f=1>, 1982; Jakobsson, 1970; Joseph, 1981; Kailola, 1978; Kearney, 1974; Kearney, 1977b; Kearney, 1978b; Kearney, 1978c; Kearney, 1978d; Kearney, 1979; Kearney, 1980; Kearney, 1981; Kearney, 1982b; Kearney and Argue, 1980; Kearney and Gillett, 1978a; Kearney and Gillett, 1978b; Kearney and Gillett, 1979b; Kearney and Gillett, 1980; Kearney, Gillett, and Whyman, 1979; Kearney and Hallier, 1978a; Kearney and Hallier, 1978b; Kearney and Hallier, 1978c; Kearney and Hallier, 1979b; Kearney and Hallier, 1980a; Kearney and Hallier 1980b; Kearney, Hallier, and Gillett, 1979; Kearney, Hallier, and Kleiber, 1978; Kearney and Lewis, 1978; Kearney, Lewis, and Hallier, 1978; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lewis, 1977a; Lewis, 1992a; Lewis, 1992b; Lewis <f=2>et al.<f=1>, no date; Mather, 1963b; Matthews and Deguara, 1992; Merta and Suhendrata, 1985; Naamin, 1991; Pepperell, 1990b; Peterson, 1979; Roberts, 1975; Schaefer, 1956; Shiohama, 1990; Shomura and Otsu, 1956; Strasburg, 1969; Suda, 1966; Thomson, 1962; Uchiyama, 1980; Uktolseja, 1987; Uktolseja, 1989; Ward, 1987; Ward, 1991; Williams, 1971; Wilson, 1953; Wilson and Austin, 1959; Yamanaka, 1966; Williams and Diplock, 1989

Effect of tagging

Bayliff, 1988b

Growth

Anonymous, 1954b; Anonymous, 1957aa; Anonymous, 1991a; Bayliff, 1987; Bayliff, 1988b; Blunt and Messersmith, 1960; Clemens and Roedel, 1964; Cole, 1980a; Cole, 1980b; Itano, 1992; Itano and Williams, 1992; Joseph and working party, 1969; Lewis, 1991; Mimura and staff, 1963; Peterson, 1967; Peterson, 1972; Peterson, 1977; Peterson, 1978; Peterson, 1980; Peterson, 1981; Peterson, 1982; Peterson,

1983; Peterson, 1984; Schaefer, 1957b; Schaefer, 1960; Schaefer, 1961; Schaefer, Broadhead, and Orange, 1963; Schaefer <f=2>et al.<f=1>, 1961; Suzuki, 1971; Ward and Caton, 1992; Wild and Foreman, 1980; Yabuta and Yukinawa, 1959; Yabuta <f=2>et al.<f=1>, 1960

#### Interactions

Anonymous, 1957aa; Anonymous, 1980e; Bayliff, 1979; Bayliff, 1983; Bayliff, 1984; Bayliff and Rothschild, 1974; Deriso <f=2>et al.<f=1>, 1991; Fink and Bayliff, 1970; Gunn <f=2>et al.<f=1>, 1992; Hampton, 1989a; Hilborn, 1987; Hilborn and Sibert, 1988; Ishii, 1978; Ishii, 1979; Itano, 1992; Lenarz and Zweifel, 1979; Lewis, 1991; Miyabe and Bayliff, 1987; Mullen, 1989; Nakano and Bayliff, 1992; Peterson, 1984; Polacheck, 1989; Polacheck, 1990; Ward and Caton, 1992

#### Mortality

Anonymous, 1964l; Barrett, 1965; Bayliff, 1971; Bayliff, 1974; Fink, 1965a; Inoue, 1973; Ishii, 1979; Itano, 1992; Joseph and working party, 1969; Lewis and Hampton, 1992; Mullen, 1989; Peterson, 1966; Peterson, 1967; Peterson, 1969; Peterson, 1972; Peterson, 1974; Peterson, 1975; Peterson, 1985; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1960; Schaefer, 1961; Schaefer, 1962; Schaefer, 1963; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963

#### Movements

Anonymous, 1953b; Anonymous, 1953g; Anonymous, 1954l; Anonymous, 1956u; Anonymous, 1956bb; Anonymous, 1957l; Anonymous, 1957s; Anonymous, 1957aa; Anonymous, 1958e; Anonymous, 1958t; Anonymous, 1959b; Anonymous, 1960h; Anonymous, 1964l; Anonymous, 1969i; Anonymous, 1983k; Anonymous, 1985g; Anonymous, 1991a; Anonymous, 1992i; Barrett, 1965; Bayliff, 1979; Bayliff, 1984; Bayliff, 1989; Bayliff and Rothschild, 1974; Blunt and Messersmith, 1960; Caton and Ward, 1987; Clemens, no date; Clemens and Roedel, 1964; Cole, 1980a; Cole, 1980b; Deriso <f=2>et al.<f=1>, 1991; Fink, 1966; Fink and Bayliff, 1970; Frey, 1971; Hilborn, 1987; Hilborn and Sibert, 1988; Hunter <f=2>et al.<f=1>, 1986; Instituto Nacional de Pesca, 1980; Ishii, 1978; Ishii, 1979; Itano, 1992; Itano and Williams, 1992; Iversen and Yoshida, 1957; Joseph <f=2>et al.<f=1>, 1964; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Lenarz and Zweifel, 1979; Lewis, 1991; Lewis and Hampton, 1992; Marr, 1963a; Martínez and Inostroza, 1980; Miyabe and Bayliff, 1987; Mullen, 1989; Nakamura, 1969; Nakano and Bayliff, 1992; Peterson, 1966; Peterson, 1967; Peterson, 1968; Peterson, 1969; Peterson, 1970; Peterson, 1971; Peterson, 1972; Peterson, 1973; Peterson, 1974; Peterson, 1975; Peterson, 1976; Peterson, 1977; Peterson, 1978; Peterson, 1980; Peterson, 1981; Peterson, 1982; Peterson, 1983; Peterson, 1984; Polacheck, 1989; Polacheck, 1990; Robins, 1960; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1959; Schaefer, 1960; Schaefer, 1961; Schaefer, 1962; Schaefer, 1963; Schaefer, 1967; Schaefer, Broadhead, and Orange, 1963; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963; Shomura, 1988; Sibert, 1986; Sund <f=2>et al.<f=1>, 1981; Suzuki <f=2>et al.<f=1>, 1978; Tenneson, 1989; Watkins, 1987; Yonemori <f=2>et al.<f=1>, 1985

#### Physiology

Barrett and Conner, 1962; Barrett and Conner, 1964; Schaefer, 1962; Schaefer, 1963

#### Shedding of tags

Anonymous, 1964l; Anonymous, 1991a; Barrett, 1965; Bayliff and Mobrand, 1972; Chapman <f=2>et al.<f=1>, 1965; Ishii, 1979; Itano, 1992; Peterson, 1966; Peterson, 1971; Peterson, 1972

#### Sonic or archival tagging

Anonymous, 1968c; Anonymous, 1981i; Anonymous, 1983l; Anonymous, 1984a; Brill <f=2>et al.<f=1>, 1984; Carey and Olson, 1982; Cayré and Chabanne, 1986; Cayré, Chabanne, Moarii, and Ugolini, 1986; Holland <f=2>et al.<f=1>, 1985; Holland <f=2>et al.<f=1>, 1990b; Hunter <f=2>et al.<f=1>, 1986; Pepperell and Holland, 1992; Peterson, 1982; Suzuki, 1984; Suzuki, 1988; Suzuki and Kume, 1982; Yonemori, 1982

#### Stock structure

Barrett, 1965; Bayliff, 1983; Bayliff, 1984; Gunn <f=2>et al.<f=1>, 1992; Hunter <f=2>et al.<f=1>, 1986; Ishii, 1978; Joseph, 1973; Joseph <f=2>et al.<f=1>, 1964; Joseph and working party, 1969; Lewis, 1991; Marr, 1963a; Schaefer, 1957b; Schaefer, 1967; Schaefer, Broadhead, and Orange, 1963; Suzuki <f=2>et al.<f=1>, 1978

**Blackfin tuna, <f=2>Thunnus atlanticus<f=1>, Atlantic Ocean**

#### Brief mention

Akyüz, 1970; Anonymous, 1981g; Anonymous, 1986j; Division of Pelagic Resources, Far Seas Fisheries Research Laboratory, 1980; García Morena and Rodríguez Rodríguez, 1983; Mather, 1963b; Miyake, 1990; Negreiros Aragão, 1979; Rinaldo <f=2>et al.<f=1>, 1981

#### Movements

Mather and working party, 1972

### **Southern bluefin tuna, <f=2>Thunnus maccoyii<f=1>**

#### Brief mention

Akyüz, 1966; Akyüz, 1970; Anonymous, 1961e; Anonymous, 1962l; Anonymous, 1962m; Anonymous, 1963b; Anonymous, 1963h; Anonymous, 1963l; Anonymous, 1963m; Anonymous, 1965d; Anonymous, 1969e; Anonymous, 1972e; Anonymous, 1976c; Anonymous, 1979a; Anonymous, 1982c; Anonymous, 1983b; Anonymous, 1983c; Anonymous, 1992f; Austin, 1973; Bayliff and Holland, 1986; Evans and Hynd, 1972; Hampton, 1986; Hearn and Majkowski, 1987a; Hunter <f=2>et al.<f=1>, 1986; Hynd and Kerrisk, 1971; Joll, 1992; Kesteven, 1967; Lenarz and Zweifel, 1979; Matthews and Deguara, 1992; Thomson, 1962; Williams and Diplock, 1989

#### Abundance

Majkowski, 1982b; Majkowski <f=2>et al.<f=1>, 1981

#### Effect of tagging

Caton, 1991; Hampton, 1986; Hampton, 1989b

#### Growth

Anonymous, 1960h; Anonymous, 1962o; Anonymous, 1981b; Anonymous, 1981f; Anonymous, 1982b; Anonymous, 1992e; Anonymous, 1992g; Caton, 1991; CSIRO Division of Fisheries and Oceanography, 1961; Hampton, 1989a; Hampton, 1989b; Hampton, 1991a; Hearn, 1986; Hynd and Robins, 1967; Hynd and Vaux, 1963; Kesteven, 1964; Kirkwood, 1983; Leyendekkers, 1964; Lucas, 1974; Majkowski, 1982a; Majkowski <f=2>et al.<f=1>, 1988; Majkowski and Murphy, 1983; Murphy, 1977; Olson, 1980a; Olson, 1980b; Robins, 1960; Robins, 1963; Ross and Swanson, 1986; Shingu, 1978; Ward and Caton, 1992; Whitelaw <f=2>et al.<f=1>, 1992; Williams, 1980; Yukinawa, 1970

#### Interactions

Caton <f=2>et al.<f=1>, 1990; Hampton, 1989b; Hearn, 1989; Hearn and Majkowski, 1987b; Majkowski <f=2>et al.<f=1>, 1988; Polacheck, 1992; Robins, 1966

#### Mortality

Anonymous, 1980e; Caton, 1991; Caton <f=2>et al.<f=1>, 1990; Eckert and Majkowski, 1987; Hampton, 1989b; Hampton, 1991b; Hearn, 1989; Hearn <f=2>et al.<f=1>, 1987; Hynd, 1965; Hynd, 1973; Hynd <f=2>et al.<f=1>, 1968; Hynd and Lucas, 1974; Kesteven, 1964; Lucas, 1974; Majkowski, 1982b; Majkowski <f=2>et al.<f=1>, 1984; Majkowski <f=2>et al.<f=1>, 1988; Majkowski and Murphy, 1983; Olson, 1980a; Olson, 1980b

#### Movements

Anonymous, 1960h; Anonymous, 1962h; Anonymous, 1962n; Anonymous, 1966d; Anonymous, 1968e; Anonymous, 1969f; Anonymous, 1972h; Anonymous, 1975b; Anonymous, 1980e; Anonymous, 1981b; Anonymous, 1981f; Anonymous, 1982b; Anonymous, 1986b; Anonymous, 1992e; Caton, 1991; Caton <f=2>et al.<f=1>, 1990; CSIRO Division of Fisheries and Oceanography, 1961; Hampton, 1991b; Hynd, 1965; Hynd, 1969; Hynd, 1974; Hynd and Kerr, 1969; Hynd and Kerrisk, 1970; Hynd and Lucas, 1974; Hynd and Robins, 1967; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Kesteven, 1964; Leyendekkers, 1964; Lucas, 1974; Maclean, 1974; Majkowski <f=2>et al.<f=1>, 1988; Majkowski and Murphy, 1983; Mather, 1969; Murphy, 1977; Murphy and Majkowski, 1981; Murphy <f=2>et al.<f=1>, 1977; Nakamura, 1969; Olson, 1980a; Olson, 1980b; Pepperell, 1985; Polacheck, 1991; Robins, 1960; Robins, 1963; Robins, 1966; Ross and Swanson, 1986; Shingu, 1967; Shingu, 1970; Shingu, 1978; Suda, 1971; Sund <f=2>et al.<f=1>, 1981; Ward and Caton, 1992; Whitelaw and Hearn, 1991; Whitelaw <f=2>et al.<f=1>, 1992; Williams, 1980; Williams, 1983; Williams, 1992

#### Recruitment

Whitelaw <f=2>et al.<f=1>, 1992

#### Shedding of tags

Caton, 1991; Eckert and Majkowski, 1987; Hampton, 1989b; Hampton and Kirkwood, 1990; Hearn, 1989; Hearn <f=2>et al.<f=1>, 1991; Hynd, 1965; Hynd, 1969; Hynd <f=2>et al.<f=1>, 1967; Kirkwood, 1981; Lucas, 1974; Majkowski and Murphy, 1983

Sonic or archival tagging

Davis and Gunn, 1992a; Davis and Gunn, 1992b

Stock structure

Anonymous, 1962h; Anonymous, 1962n; Anonymous, 1980e; Caton, 1991; Hynd, 1969; Lucas, 1974; Maclean, 1974; Majkowski, 1982a; Robins, 1963; Shingu, 1967; Shingu, 1970; Shingu, 1978; Ward and Caton, 1992

**Bigeye tuna, <f=2>Thunnus obesus<f=1>, Atlantic Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Aloncle, 1977; Aloncle, 1979; Aloncle and Delaporte, 1974b; Aloncle <f=2>et al.<f=1>, 1978; Amon Kothias and Bard, 1985; Anonymous, 1965b; Anonymous, 1965c; Anonymous, 1966a; Anonymous, 1974a; Anonymous, 1979g; Anonymous, 1981g; Anonymous, 1986m; Anonymous, 1986n; Anonymous, 1986o; Anonymous, 1986q; Anonymous, 1988a; Anonymous, 1988e; Anonymous, 1988f; Bard, Mensah, and Vendeville, 1987; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1981; Cayré, 1983; Cayré <f=2>et al.<f=1>, 1974; Cort, 1987; Cort, 1990a; Cort <f=2>et al.<f=1>, 1981; Far Seas Fisheries Research Laboratory, 1982; González-Garcés, 1984; González-Garcés, 1985; González-Garcés, 1986; Hunter <f=2>et al.<f=1>, 1986; Hurley and Iles, 1982a; Iles <f=2>et al.<f=1>, 1981; Kume, 1981b; Kume, 1982; Letaconneaux, 1974; Letaconneaux, 1976; Mather, 1963b; Mather and Mason, 1973; Mather and working party, 1972; Rey and Cort, 1985; Santos Guerra and García Ramos, 1985; Symons, 1981; Tibbo and Beckett, 1971

Growth

Anonymous, 1978d; Cayré <f=2>et al.<f=1>, 1988; Cayré and Diouf, 1984; Gong and Lee, 1983; Miyabe, 1984; Miyake, 1990

Movements

Aloncle and Delaporte, 1980; Aloncle <f=2>et al.<f=1>, 1976; Aloncle <f=2>et al.<f=1>, 1978; Anonymous, 1987e; Bard and Amon Kothias, 1986b; Bard <f=2>et al.<f=1>, 1988; Gong and Lee, 1983; Joseph <f=2>et al.<f=1>, 1988; Miyabe, 1987; Yamaguchi and Kikawa, 1982

Sonic or archival tagging

Anonymous, 1982d

Stock structure

Bard <f=2>et al.<f=1>, 1988; Miyake, 1990;

**Bigeye tuna, <f=2>Thunnus obesus<f=1>, Indian Ocean**

Brief mention

Anonymous, 1988d; Anonymous, 1990c; Anonymous, 1990d; Anonymous, 1991a; Anonymous, 1991c; Association Thonière-Commission de l'Océan Indien, 1991; Takahashi <f=2>et al.<f=1>, 1988

Growth

Cayré and Ramcharrun, 1991

Movements

Cayré and Ramcharrun, 1991; Yano, 1991

**Bigeye tuna, <f=2>Thunnus obesus<f=1>, Pacific Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Anonymous, 1950a; Anonymous, 1954c; Anonymous, 1954h; Anonymous, 1955a; Anonymous, 1955b; Anonymous, 1955c; Anonymous, 1955d; Anonymous, 1955f; Anonymous, 1955j; Anonymous, 1955o; Anonymous, 1956e; Anonymous, 1956j; Anonymous, 1956o; Anonymous, 1956u; Anonymous, 1957c; Anonymous, 1957d; Anonymous, 1957h; Anonymous, 1963k; Anonymous, 1970a; Anonymous, 1972g; Anonymous, 1977h; Anonymous, 1977i; Anonymous, 1990c; Anonymous,

1991b; Anonymous, 1992b; Anonymous, 1992h; Arce and Barut, 1989; Gillett and Kearney, 1980; Graham, 1957; Ishida, 1989; Itano, 1991; Itano and Williams, 1992; Iversen and Yoshida, 1957; Kailola, 1978; Kearney, 1978b; Kearney, 1978c; Kearney, 1978d; Kearney, 1979; Kearney, 1980; Kearney, 1981; Kearney and Hallier, 1979b; Kearney and Hallier, 1980a; Kearney and Lewis, 1978; Lewis, 1991; Lewis, 1992a; Lewis, 1992b; Lewis and Hampton, 1992; Matthews and Deguara, 1992; Peterson, 1968; Peterson, 1973; Peterson, 1979; Peterson, 1980; Shiohama, 1990; Shomura and Otsu, 1956; Strasburg, 1969; Suda, 1966; Ward, 1987; Watkins, 1987; Yamanaka, 1966; Yonemori <f=2>et al.<f=1>, 1985

#### Growth

Alverson and Peterson, 1963; Anonymous, 1956f; Anonymous, 1956m; Anonymous, 1992j; Otsu and Uchida, 1956

#### Movements

Alverson and Peterson, 1963; Anonymous, 1956f; Anonymous, 1956m; Anonymous, 1957aa; Anonymous, 1992j; Bayliff, 1991a; Bayliff, 1992a; Bayliff, 1992b; Calkins, 1980a; Calkins, 1980b; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Kume, 1967; Otsu and Uchida, 1956; Shomura, 1988; Sund <f=2>et al.<f=1>, 1981

#### Sonic or archival tagging

Anonymous, 1981i; Anonymous, 1983l; Bushnell and Holland, 1989; Holland <f=2>et al.<f=1>, 1990b; Holland <f=2>et al.<f=1>, 1992; Hunter <f=2>et al.<f=1>, 1986; Pepperell and Holland, 1992; Suzuki, 1984; Suzuki, 1988; Suzuki and Kume, 1982; Tenneson, 1989

### **Northern bluefin tuna, <f=2>Thunnus thynnus<f=1>, Atlantic Ocean**

#### Brief mention

Akyüz, 1966; Akyüz, 1970; Aloncle, 1977; Aloncle, 1979; Aloncle, 1980a; Aloncle and Delaporte, 1970; Aloncle and Delaporte, 1971; Aloncle <f=2>et al.<f=1>, 1976; Aloncle <f=2>et al.<f=1>, 1978; Anonymous, 1954e; Anonymous, 1954m; Anonymous, 1959e; Anonymous, 1964b; Anonymous, 1964c; Anonymous, 1964k; Anonymous, 1969h; Anonymous, 1971a; Anonymous, 1972e; Anonymous, 1972f; Anonymous, 1974a; Anonymous, 1974c; Anonymous, 1976a; Anonymous, 1981g; Anonymous, 1982e; Anonymous, 1988f; Anonymous, 1988g; Beckett, 1968; Beckett, 1974b; Burnett <f=2>et al.<f=1>, 1977; Casey <f=2>et al.<f=1>, 1988; Cayré, 1986; Cendrero, 1973; Clay, 1986; Clay and Porter, 1992; Cort, 1986; Cort, 1987; Cort, 1989; Cort, 1990a; Cort and Cárdenas, 1978; Cort <f=2>et al.<f=1>, 1980; Cort and Rey, 1979; Cort <f=2>et al.<f=1>, 1981; Fridriksson, 1952; González-Gárce, 1979; González-Gárce, 1980; González-Gárce, 1981; González-Gárce, 1982; González-Gárce, 1983; González-Gárce, 1984; González-Gárce, 1985; González-Gárce, 1987; González-Gárce <f=2>et al.<f=1>, 1977; Hamou-Tahra and Brêthes, 1978; Hamre, 1960; Instituto Español de Oceanografía, 1992; Lenarz <f=2>et al.<f=1>, 1972; Letaconnoux, 1974; Letaconnoux, 1975; Mather, 1961; Mather, 1963a; Mejuto, 1984; Mejuto, 1985; Meyer-Waarden, 1959; National Marine Fisheries Service, 1979; National Marine Fisheries Service, 1980; National Marine Fisheries Service, 1981; National Marine Fisheries Service, 1988; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Oceanic and Atmospheric Administration, National Marine Fisheries Service, 1975; National Oceanic and Atmospheric Administration, National Marine Fisheries Service, 1976; National Oceanic and Atmospheric Administration, National Marine Fisheries Service, 1977; Rey, 1978; Rey and Cort, 1978; Rey and Cort, 1979; Rey and Cort, 1981a; Rey and Cort, 1981b; Rey and Cort, 1982; Rey and Cort, 1985; Rodríguez-Roda, 1966a; Sakagawa and Coan, 1974; de la Serna <f=2>et al.<f=1>, 1992; The Spanish Institute of Oceanography, 1991; Tibbo and Beckett, 1973; Tyler <f=2>et al.<f=1>, 1977; Tyler <f=2>et al.<f=1>, 1978; Wise <f=2>et al.<f=1>, 1971

#### Abundance

Porter and Hogans, 1991

#### Growth

Anonymous, 1960j; Anonymous, 1980f; Anonymous, 1987c; Beckett, 1970; Clay, 1991; Cort, 1990b; Cort and Rey, 1985; Farber and Lee, 1981; Fee, 1991; Hurley and Iles, 1982b; Lamboeuf, 1973; Lee and Prince, 1991; Mather, 1960; Mather, 1980a; Mather and Mason, 1973; Mather and Schuck, 1960; Miyake, 1990; Parrack and Phares, 1979; Scott <f=2>et al.<f=1>, 1990; Suzuki and Ishizuka, 1991; Tiews, 1963; Turner <f=2>et al.<f=1>, 1991



## Mortality

Anonymous, 1968f; Anonymous, 1975c; Anonymous, 1980f; Butler, 1971; Butler, 1982; Casey <f=2>et al.<f=1>, 1978; Clay, 1991; Cort and Rey, 1985; Doi <f=2>et al.<f=1>, 1985; Farber, 1980; Fee, 1991; Mason, 1975; Mather <f=2>et al.<f=1>, 1973; Mather, Rothschild, Paulik, and Lenarz, 1974; Mather and working party, 1972; Miyabe, 1983; Miyake, 1990; Powers <f=2>et al.<f=1>, 1983; Rodríguez-Roda, 1964b

## Movements

Allain and Aloncle, 1968; Aloncle, 1973; Aloncle and Delaporte, 1980; Anonymous, 1960b; Anonymous, 1960j; Anonymous, 1962b; Anonymous, 1962c; Anonymous, 1962d; Anonymous, 1962j; Anonymous, 1962k; Anonymous, 1963a; Anonymous, 1963d; Anonymous, 1963e; Anonymous, 1963j; Anonymous, 1967b; Anonymous, 1968f; Anonymous, 1969d; Anonymous, 1971c; Anonymous, 1974b; Anonymous, 1974d; Anonymous, 1974f; Anonymous, 1975c; Anonymous, 1976d; Anonymous, 1977c; Anonymous, 1979e; Anonymous, 1980f; Arena, 1960; Baglin <f=2>et al.<f=1>, 1978; Beardsley, 1985; Beckett, 1970; Brêthes, 1978; Brêthes, 1979; Brêthes and Mason, 1979; Brown and Parrack, 1985; Brunenmeister, 1980; Burnett <f=2>et al.<f=1>, 1979; Burnett and Iles, 1978; Bushnell and Holland, 1989; Butler, 1971; Butler, 1982; Caddy and Beckett, 1975; Caddy and Burnett, 1976; Carey <f=2>et al.<f=1>, 1971; Casey <f=2>et al.<f=1>, 1978; Clay, 1991; Cort, 1982a; Cort, 1982b; Cort, 1990b; Cort and Rey, 1981; Cort and Rey, 1983; Cort and Rey, 1985; Division of Pelagic Resources, Far Seas Fisheries Research Laboratory, 1980; Dwivedi, 1964; Farber and Chewing, 1980; Farrugio, 1980; Fee, 1991; Hamre, 1961; Hamre, 1962; Hamre, 1963a; Hamre, 1963b; Hamre, 1964; Hamre, 1965; Hayasi <f=2>et al.<f=1>, 1970; Heldt, 1927a; Heldt, 1927b; Heldt, 1929; Heldt, 1930; Heldt, 1931; Heldt, 1932; Heldt, 1934; Heldt, 1937; Heldt, 1938; Hunter <f=2>et al.<f=1>, 1986; Hurley, Burnett, and Dickson, 1979; Hurley and Iles, 1980; Hurley and Iles, 1982a; Hurley and Iles, 1982b; Hurley <f=2>et al.<f=1>, 1983; Iles and Burnett, 1977; Iles <f=2>et al.<f=1>, 1980; Iles <f=2>et al.<f=1>, 1981; Jakobsson, 1970; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Lamboeuf, 1973; Lamboeuf, 1975; Letaconnoux, 1971; Marr, 1963a; Mason, 1975; Mason <f=2>et al.<f=1>, 1977; Mather, 1960; Mather, 1962; Mather, 1963b; Mather, 1964; Mather, 1969; Mather, 1980b; Mather and Bartlett, 1962; Mather and Bartlett, 1966; Mather <f=2>et al.<f=1>, 1967; Mather and Mason, 1973; Mather and Mason, 1976; Mather, Mason, and Jones, 1974; Mather <f=2>et al.<f=1>, 1973; Mather, Rothschild, Paulik, and Lenarz, 1974; Mather and Schuck, 1960; Mather and working party, 1969; Mather and working party, 1972; Miyabe and Suzuki, 1989; Miyake, 1990; National Marine Fisheries Service, 1987; National Marine Fisheries Service, 1992; Nichols, 1980; Postel, 1970; Rey, 1978; Rey, 1983; Richards, 1988; Rivas, 1978; Rodríguez-Roda, 1959; Rodríguez-Roda, 1963; Rodríguez-Roda, 1964a; Rodríguez-Roda, 1964c; Rodríguez-Roda, 1969a; Rodríguez-Roda, 1971; Rodríguez-Roda, date unknown; Sarà, 1973; Scott <f=2>et al.<f=1>, 1990; Sella, 1926a; Sella, 1929; Sella, 1930; Suzuki and Ishizuka, 1991; Tesch, 1980; Tibbo and Beckett, 1971; Tiews, 1963; Tiews, 1964; Tyler <f=2>et al.<f=1>, 1979; Westman and Neville, 1942; Wilson, 1965

## Recruitment

Miyabe, 1983

## Schooling

Fee, 1991; Turner, 1986

## Shedding of tags

Anonymous, 1973b; Baglin <f=2>et al.<f=1>, 1980a; Baglin <f=2>et al.<f=1>, 1980b; Baglin <f=2>et al.<f=1>, 1978; Farber, 1980; Hurley, Dickson, and Iles, 1979; Hurley and Iles, 1980; Lenarz <f=2>et al.<f=1>, 1973a; Lenarz <f=2>et al.<f=1>, 1973b; Mather and Mason, 1976; Mather, Rothschild, Paulik, and Lenarz, 1974; National Marine Fisheries Service, 1974; Porter and Hogans, 1992; Tibbo and Beckett, 1974

## Sonic or archival tagging

Bass and Rascovich, 1965; Bayliff and Holland, 1986; Butler, 1978; Butler, 1982; Butler and Pincock, 1978; Caddy and Beckett, 1975; Carey, 1973; Carey <f=2>et al.<f=1>, 1984; Carey and Lawson, 1973; Carey <f=2>et al.<f=1>, 1971; Hunter <f=2>et al.<f=1>, 1986; Hurley, Dickson, and Iles, 1979; Kanwisher <f=2>et al.<f=1>, 1974; Porter and Hogans, 1992; Stevens <f=2>et al.<f=1>, 1978; Tibbo and Beckett, 1972

## Stock structure

Anonymous, 1974d; Anonymous, 1975c; Anonymous, 1976c; Anonymous, 1976d; Anonymous, 1977c; Anonymous, 1978d; Anonymous, 1979e; Anonymous, 1980f; Anonymous, 1987e; Brown and Parrack, 1985; Brunenmeister, 1980; Butler, 1982; Casey <f=2>et al.<f=1>, 1978; Clay, 1991; Cort and Rey, 1983; Hunter <f=2>et al.<f=1>, 1986; Mather, 1980b; Mather, Mason, and Jones, 1974; Mather and working party, 1972; Miyake, 1990; Rodríguez-Roda, date unknown; Suzuki and Ishizuka, 1991; Tiews, 1964

### **Northern bluefin tuna, <f=2>Thunnus thynnus<f=1>, Pacific Ocean**

#### **Brief mention**

Akyüz, 1970; Anonymous, 1953h; Anonymous, 1954k; Anonymous, 1954l; Anonymous, 1955s; Anonymous, 1962g; Anonymous, 1963i; Anonymous, 1964i; Anonymous, 1964k; Anonymous, 1972e; Bayliff and Holland, 1986; Iselin, 1963; Suda, 1966; Yamanaka and staff, 1963; Yamanaka, 1966

#### **Growth**

Anonymous, 1964f; Anonymous, 1964j; Anonymous, 1967a; Anonymous, 1968a; Bayliff, 1991a; Bayliff, 1991b; Bayliff <f=2>et al.<f=1>, 1991; Bayliff and Calkins, 1979; Orange and Fink, 1963; Peterson, 1982; Peterson, 1983; Peterson, 1985; Yamanaka, 1982; Yukinawa and Yabuta, 1967

#### **Interactions**

Bayliff, 1980a; Bayliff, 1980b; Bayliff, 1986; Bayliff, 1987; Bayliff, 1988a; Bayliff, 1989; Bayliff, 1991a; Bayliff, 1991b; Bayliff, 1992a; Bayliff, 1992b; Bayliff and Calkins, 1979; Peterson, 1980

#### **Mortality**

Bayliff, 1980a; Bayliff, 1980b; Bayliff <f=2>et al.<f=1>, 1991; Bayliff and Calkins, 1979; Hanan, 1983a; Peterson, 1980

#### **Movements**

Anonymous, 1956z; Anonymous, 1963e; Anonymous, 1963n; Anonymous, 1964f; Anonymous, 1964j; Anonymous, 1967a; Anonymous, 1968a; Anonymous, 1969a; Anonymous, 1980e; Anonymous, 1985a; Bayliff, 1980a; Bayliff, 1980b; Bayliff, 1983; Bayliff, 1986; Bayliff, 1987; Bayliff, 1988a; Bayliff, 1989; Bayliff, 1991a; Bayliff, 1991b; Bayliff, 1992a; Bayliff, 1992b; Bayliff <f=2>et al.<f=1>, 1991; Bayliff and Calkins, 1979; Bell, 1963; Brock, 1965; Chatwin and Orange, 1960; Clemens, 1966a; Clemens, 1966b; Clemens and Flittner, 1969; Clemens and Roedel, 1964; Flittner, 1966; Frey, 1971; Hanan, 1983a; Hanan, 1983b; Hunter <f=2>et al.<f=1>, 1986; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Landberg, 1966; Mather, 1969; Miyabe and Suzuki, 1989; Orange and Fink, 1963; Peterson, 1980; Peterson, 1981; Peterson, 1982; Peterson, 1983; Peterson, 1984; Shingu <f=2>et al.<f=1>, 1974; Shomura, 1988; Sund <f=2>et al.<f=1>, 1981; Tenneson, 1989; Yamanaka, 1982; Yukinawa and Yabuta, 1967

#### **Sonic or archival tagging**

Konogaya, 1977; Smith and Goodman, 1986

#### **Stock structure**

Anonymous, 1963e; Anonymous, 1969a; Anonymous, 1980e; Bayliff, 1983; Bayliff, 1986; Bayliff, 1987; Bayliff, 1988a; Bayliff, 1989; Bayliff, 1991a; Bayliff, 1991b; Bayliff, 1992a; Bayliff, 1992b; Bayliff <f=2>et al.<f=1>, 1991; Bayliff and Calkins, 1979; Clemens and Flittner, 1969; Hanan, 1983b; Hunter <f=2>et al.<f=1>, 1986; Joseph and working party, 1969; Orange and Fink, 1963; Peterson, 1980; Yamanaka, 1982

### **Longtail tuna, <f=2>Thunnus tonggol<f=1>, Indian Ocean**

#### **Brief mention**

Anonymous, 1991a; Shomura, 1992

### **Longtail tuna, <f=2>Thunnus tonggol<f=1>, Pacific Ocean**

#### **Brief mention**

Anonymous, 1977i; Anonymous, 1983d; Anonymous, 1987h; Anonymous, 1990c; Hassan, 1991; Kailola, 1978; Kearney, 1974; Lewis, 1992a; Lewis, 1992b; Lewis and Hampton, 1992; Matthews and Deguara, 1992; Pepperell, 1990b; Stevens and Church, 1984

### **Atlantic sailfish, <f=2>Istiophorus albicans<f=1>, Atlantic Ocean**

#### Brief mention

Anonymous, 1962a; Anonymous, 1963a; Anonymous, 1964b; Anonymous, 1976a; Beardsley, 1985; Casey <f=2>et al.<f=1>, 1988; Diouf, 1991; Lenarz <f=2>et al.<f=1>, 1972; Mather, 1963a; Miyake, 1990; National Marine Fisheries Service, 1985; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; Prince, 1991

#### Growth

Boggs, 1989; Conser, 1984; Mather, Tabb, Mason, and Clark, 1974; Prince <f=2>et al.<f=1>, 1986; Scott <f=2>et al.<f=1>, 1990

#### Interactions

Mather, Tabb, Mason, and Clark, 1974

#### Mortality

Beardsley <f=2>et al.<f=1>, 1975; Boggs, 1989; Conser, 1984; de Sylva, 1957; Jolley and Irby, 1979; Mather <f=2>et al.<f=1>, 1976; Mather, Tabb, Mason, and Clark, 1974;

#### Movements

Anonymous, 1960j; Anonymous, 1969d; Anonymous, 1977c; Anonymous, 1978d; Beardsley <f=2>et al.<f=1>, 1975; Buchanan <f=2>et al.<f=1>, 1978; Capisano, 1989; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mason and Buchanan, 1979; Mather, 1960; Mather, 1963b; Mather and Bartlett, 1966; Mather and Mason, 1973; Mather <f=2>et al.<f=1>, 1976; Mather, Tabb, Mason and Clark, 1974; Mather and working party, 1972; Scott <f=2>et al.<f=1>, 1991

#### Sonic or archival tagging

Jolley and Irby, 1979; Pepperell and Holland, 1992

#### Stock structure

Mather, Tabb, Mason, and Clark, 1974

### **Indo-Pacific sailfish, <f=2>Istiophorus platypterus<f=1>, Pacific Ocean**

#### Brief mention

Anonymous, 1956e; Anonymous, 1960j; Anonymous, 1964b; Anonymous, 1992l; Gottschalk, 1972; Mather, 1963a; Mather and Bartlett, 1966; Matthews and Deguara, 1992; Pepperell, 1990b; Pepperell, 1992b; Strasburg, 1970

#### Growth

Anonymous, 1990b; Speare and Williams, 1992

#### Movements

Beardsley <f=2>et al.<f=1>, 1975; Squire, 1974; Strasburg, 1969

### **Black marlin, <f=2>Makaira indica<f=1>, Pacific Ocean**

#### Brief mention

Anonymous, 1964b; Anonymous, 1977b; Gottschalk, 1972; Mather, 1963b; Matthews and Deguara, 1992; Pepperell, 1990b; Pepperell, 1992a; Pepperell, 1992b; Strasburg, 1969; Watkins, 1987

#### Growth

Anonymous, 1990b; Speare and Williams, 1992; Squire and Neilson, 1983

#### Movements

Anonymous, 1983a; Anonymous, 1992k; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Pepperell, 1985; Pepperell, 1990a; Shomura, 1988; Squire, 1974; Squire and Neilson, 1983; Strasburg, 1970

#### Stock structure

Pepperell, 1985

### **Indo-Pacific blue marlin, <f=2>Makaira mazara<f=1>, Pacific Ocean**

#### Brief mention

Gottschalk, 1972; Matthews and Deguara, 1992; Strasburg, 1969

#### Movements

Joseph <f=2>et al.<f=1>, 1988; Sakagawa, 1988; Squire, 1974

#### Sonic or archival tagging

Block <f=2>et al.<f=1>, 1992a; Block <f=2>et al.<f=1>, 1992b; Holland <f=2>et al.<f=1>, 1985; Holland <f=2>et al.<f=1>, 1990a; Naughton, 1973; Pepperell and Holland, 1992; Rivas, 1975; Yuen <f=2>et al.<f=1>, 1974

#### Stock structure

Sakagawa, 1988; Skillman, 1989

### **Atlantic blue marlin, <f=2>Makaira nigricans<f=1>, Atlantic Ocean**

#### Brief mention

Anonymous, 1963a; Anonymous, 1964b; Anonymous, 1966a; Anonymous, 1969d; Casey <f=2>et al.<f=1>, 1988; Mather, 1963b; Mather and Bartlett, 1966; Miyake, 1990; National Marine Fisheries Service, 1986; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; Prince, 1991

#### Growth

Mather, Mason, and Clark, 1974

#### Movements

Amon Kothias and Bard, 1985; Anonymous, 1978d; Beardsley, 1985; Buchanan <f=2>et al.<f=1>, 1978; Casey <f=2>et al.<f=1>, 1978; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mason and Buchanan, 1979; Mather <f=2>et al.<f=1>, 1972; Mather <f=2>et al.<f=1>, 1976; Mather, Mason, and Clark, 1974; Mather and working party, 1972; National Marine Fisheries Service, 1985; National Marine Fisheries Service, 1987; Richards, 1988; Rivas, 1975; Sakagawa, 1988; Scott <f=2>et al.<f=1>, 1990; Witzell and Scott, 1990

#### Stock structure

Mather, Mason, and Clark, 1974; Sakagawa, 1988; Skillman, 1989

### **White marlin, <f=2>Tetrapturus albidus<f=1>, Atlantic Ocean**

#### Brief mention

Anonymous, 1963a; Anonymous, 1964b; Anonymous, 1965a; Anonymous, 1965b; Burnett <f=2>et al.<f=1>, 1977; Casey <f=2>et al.<f=1>, 1988; Earle, 1940; Lenarz <f=2>et al.<f=1>, 1972; Mather, 1963a; Mather, 1963b; Miyake, 1990; National Marine Fisheries Service, 1988; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; Prince, 1991; Wise <f=2>et al.<f=1>, 1971

#### Growth

Mather, Mason, and Clark, 1974; Scott <f=2>et al.<f=1>, 1990

#### Mortality

Anonymous, 1972c; Casey <f=2>et al.<f=1>, 1978; Mather, 1960; Mather <f=2>et al.<f=1>, 1972; Mather and Mason, 1973; Mather <f=2>et al.<f=1>, 1972; Mather <f=2>et al.<f=1>, 1976; Mather, Mason, and Clark, 1974; Mather and working party, 1972

#### Movements

Anonymous, 1960j; Anonymous, 1969d; Anonymous, 1972c; Anonymous, 1972f; Anonymous, 1974b; Anonymous, 1977c; Anonymous, 1978d; Anonymous, 1983a; Beardsley, 1985; Buchanan <f=2>et al.<f=1>, 1978; Casey <f=2>et al.<f=1>, 1978; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mason and Buchanan, 1979; Mather, 1960; Mather, 1967; Mather, 1969; Mather and Bartlett, 1966; Mather <f=2>et al.<f=1>, 1975; Mather <f=2>et al.<f=1>, 1972; Mather and Mason, 1973; Mather <f=2>et al.<f=1>, 1976; Mather, Mason, and Clark, 1974; Mather and working party, 1972; Richards, 1988; Scott <f=2>et al.<f=1>, 1991; Shomura, 1988

#### Stock structure

Anonymous, 1974b; Mather, 1967; Mather <f=2>et al.<f=1>, 1975; Mather <f=2>et al.<f=1>, 1972; Mather <f=2>et al.<f=1>, 1976; Mather, Mason, and Clark, 1974

**Shortbill spearfish, <f=2>Tetrapturus angustirostris<f=1>, Pacific Ocean**

Brief mention

Strasburg, 1969

**Striped marlin, <f=2>Tetrapturus audax<f=1>, Pacific Ocean**

Brief mention

Anonymous, 1964b; Mather, 1963b; Matthews and Deguara, 1992; Saul, 1977

Effects of tagging

Holts and Bedford, 1990

Growth

Anonymous, 1985a

Interactions

Squire and Au, 1990; Squire and Suzuki, 1990

Movements

Anonymous, 1969d; Anonymous, 1985a; Beardsley, 1985; Clemens, 1966b; Gottschalk, 1972; Howard and Ueyanagi, 1965; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mather, 1969; Mather and Bartlett, 1986; Shomura, 1988; Squire, 1974; Squire, 1987; Squire and Au, 1990; Squire and Suzuki, 1990; Strasburg, 1969; Strasburg, 1967; Ueyanagi and Wares, 1975

Sonic or archival tagging

Holts and Bedford, 1990; Pepperell and Holland, 1992

**Longbill spearfish, <f=2>Tetrapturus pfluegeri<f=1>, Atlantic Ocean**

Brief mention

Casey <f=2>et al.<f=1>, 1988

**Swordfish, <f=2>Xiphias gladius<f=1>, Atlantic Ocean**

Brief mention

Anonymous, 1966b; Burnett <f=2>et al.<f=1>, 1977; Caddy and Burnett, 1977; Casey <f=2>et al.<f=1>, 1988; Cayré, 1986; González-Garcés, 1982; González-Garcés, 1985; González-Garcés, 1987; Hurlbert <f=2>et al.<f=1>, 1985; Mather, 1963b; Mather and Bartlett, 1966; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; de la Serna, 1992; Tibbo and Beckett, 1973

Growth

Beckett, 1970; Beckett, 1974a; Boggs, 1989; Hurley <f=2>et al.<f=1>, 1983; Iles <f=2>et al.<f=1>, 1981; Palko <f=2>et al.<f=1>, 1981; Restrepo, 1990; Scott <f=2>et al.<f=1>, 1990; Southeast Fisheries Center, 1987; Tibbo and Beckett, 1971

Interactions

Berkeley, 1983; Berkeley, 1989; Farber, 1988; Miyake and Rey, 1989

Movements

Anonymous, 1969c; Beckett, 1979; Beckett, 1974a; Berkeley, 1983; Berkeley, 1989; Burnett and Iles, 1978; Casey <f=2>et al.<f=1>, 1978; Farber, 1988; Hurley, Burnett, and Dickson, 1979; Hurley and Iles, 1980; Hurley and Iles, 1982a; Iles and Burnett, 1977; Iles <f=2>et al.<f=1>, 1980; Iles <f=2>et al.<f=1>, 1981; Mather <f=2>et al.<f=1>, 1976; Mather and working party, 1972; Mejuto, 1991; Miyake and Rey, 1989; Palko <f=2>et al.<f=1>, 1981; Scott <f=2>et al.<f=1>, 1990; Tibbo and Beckett, 1972; Tibbo and Beckett, 1974

Sonic or archival tagging

Bayliff and Holland, 1986; Carey, 1990; Carey and Robison, 1981; Palko <f=2>et al.<f=1>, 1981

## Stock structure

Berkeley, 1983; Berkeley, 1989; Farber, 1988; Mejuto and Hoey, 1991; Miyake and Rey, 1989

### **Swordfish, <f=2>Xiphias gladius<f=1>, Indian Ocean**

## Brief mention

Takahashi <f=2>et al.<f=1>, 1988

### **Swordfish, <f=2>Xiphias gladius<f=1>, Pacific Ocean**

## Brief mention

Matthews and Deguara, 1992; Murray, 1990; Watkins, 1987

## Movements

Anonymous, 1992n

## Sonic or archival tagging

Bayliff and Holland, 1986; Carey, 1983; Carey and Robison, 1981; Holland <f=2>et al.<f=1>, 1985; Palko <f=2>et al.<f=1>, 1981; Pepperell and Holland, 1992

## **Materials and Methods**

## Conventional tags

### Tagging and handling

Akyüz, 1966; Akyüz, 1970; Allain, 1967; Aloncle and Delaporte, 1973b; Aloncle and Delaporte, 1974b; Aloncle <f=2>et al.<f=1>, 1972; Alverson and Chenoweth, 1951; Alverson and Chatwin, 1964; Anonymous, 1933; Anonymous, 1950a; Anonymous, 1950b; Anonymous, 1950c; Anonymous, 1950d; Anonymous, 1950e; Anonymous, 1952a; Anonymous, 1953d; Anonymous, 1953e; Anonymous, 1953f; Anonymous, 1953h; Anonymous, 1954e; Anonymous, 1954h; Anonymous, 1954i; Anonymous, 1954j; Anonymous, 1954m; Anonymous, 1955b; Anonymous, 1955c; Anonymous, 1955k; Anonymous, 1955l; Anonymous, 1955v; Anonymous, 1956a; Anonymous, 1956s; Anonymous, 1956v; Anonymous, 1956x; Anonymous, 1956z; Anonymous, 1956aa; Anonymous, 1957a; Anonymous, 1957c; Anonymous, 1957e; Anonymous, 1957g; Anonymous, 1957h; Anonymous, 1957j; Anonymous, 1957k; Anonymous, 1957o; Anonymous, 1957r; Anonymous, 1957s; Anonymous, 1957t; Anonymous, 1957bb; Anonymous, 1958e; Anonymous, 1958h; Anonymous, 1958j; Anonymous, 1958k; Anonymous, 1958l; Anonymous, 1958s; Anonymous, 1958t; Anonymous, 1958w; Anonymous, 1959g; Anonymous, 1959k; Anonymous, 1960f; Anonymous, 1960h; Anonymous, 1962o; Anonymous, 1963b; Anonymous, 1963h; Anonymous, 1963l; Anonymous, 1964c; Anonymous, 1966c; Anonymous, 1971b; Anonymous, 1971c; Anonymous, 1972f; Anonymous, 1973b; Anonymous, 1977h; Anonymous, 1983b; Anonymous, 1987g; Anonymous, 1988d; Anonymous, 1990b; Anonymous, 1991a; Anonymous, 1992d; Asano, 1991; Baglin <f=2>et al.<f=1>, 1978; Bailey, 1987b; Bard, 1984b; Barrett and Conner, 1962; Barrett and Conner, 1964; Barut and Arce, 1991; Bayliff, 1973; Bayliff and Holland, 1986; Beckett, 1968; Beckett, 1970; Beckett, 1974b; Blunt and Messersmith, 1960; Broadhead, 1959; Burnett <f=2>et al.<f=1>, 1977; Caton, 1991; Clay, 1991; Clemens, 1961; Clemens, 1966a; Clemens and Roedel, 1964; Cort, 1990b; Earle, 1940; Fink, 1965a; Fink, 1965b; Fink and Bayliff, 1970; Foreman, 1987; Godsil, 1936; Godsil, 1938; Habib <f=2>et al.<f=1>, 1979; Hall, 1992; Hampton, 1986; Hampton, 1991b; Hampton and Kirkwood, 1990; Hamre, 1960; Hamre, 1961; Hamre, 1963b; Hassan, 1991; Heldt, 1932; Heldt, 1934; Heldt, 1938; Hue, 1980; Hurley, Burnett, and Dickson, 1979; Hurley, Dickson, and Iles, 1979; Hurley and Iles, 1980; Hurley <f=2>et al.<f=1>, 1983; Hynd, 1969; Hynd <f=2>et al.<f=1>, 1967; Ichikawa, 1981; Ishida, 1989; Itano, 1991; Itano, 1992; Iversen and Yoshida, 1957; Jakobsson, 1970; Kailola, 1978; Kasahara <f=2>et al.<f=1>, 1971; Kask, 1966; Kawasaki, 1965; Kearney, 1974; Kearney, 1977b; Kearney, 1983; Kearney, 1992; Kearney and Gillett, 1982; Kearney and Hallier, 1978a; Kearney and Hallier, 1980a; Kearney and Lewis, 1978; Kearney, Lewis, and Smith, 1972; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kume, 1981b; Laurs <f=2>et al.<f=1>, 1976; Laurs and Wetherall, 1981; Lenarz <f=2>et al.<f=1>, 1972; Lenarz <f=2>et al.<f=1>, 1973b; Letaconnoux, 1963; Letaconnoux, 1971; Lewis, 1977b; Lewis, 1980a; Lewis, 1980b; Lewis, 1989; Lewis, 1991; Lewis <f=2>et al.<f=1>, no date; Lucas, 1974; Majkowski, 1982a; Majkowski

and Murphy, 1983; Marr, 1963a; Marr, 1963b; Mason <f=2>et al.<f=1>, 1977; Mather, 1960; Mather, 1963a; Mather and Mason, 1973; Mather and Mason, 1976; Mather <f=2>et al.<f=1>, 1976; Mather, Tabb, Mason, and Clark, 1974; Mather and working party, 1969; Mather and working party, 1972; Matthews and Deguara, 1992; McFarlane <f=2>et al.<f=1>, 1990; Meyer-Waarden, 1959; Miyake, 1990; Murray, 1990; Naamin, 1991; Nakamura, 1987; National Marine Fisheries Service, 1974; Otsu, 1970; Partlo, 1951; Pepperell, 1985; Pepperell, 1990a; Pepperell, 1990b; Pepperell, 1992a; Pepperell, 1992b; Peterson, 1970; Peterson, 1971; Peterson, 1973; Porter and Hogans, 1992; Powell, 1950; Powell <f=2>et al.<f=1>, 1952; Rey, 1978; Rey and Cort, 1979; Rinaldo, Evans, and Vergne, 1981; Robins, 1960; Rochepeau, 1991b; Rodríguez-Roda, 1959; Rodríguez-Roda, 1963; Rodríguez-Roda, 1964a; Rodríguez-Roda, 1964b; Rodríguez-Roda, 1964c; Rodríguez-Roda, 1966a; Santos Guerra and Torres Nuñez, 1981; Santos and Torres, 1983; Scagel, 1949; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1959; Schaefer, 1961; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, 1952; Scott <f=2>et al.<f=1>, 1990; de la Serna, 1992; Shiohama, 1990; Shomura, 1987; Sitan, 1989b; Speare and Williams, 1992; Squire, 1974; Squire, 1987; Squire and Neilson, 1983; Thomson, 1962; Tibbo and Beckett, 1972; Tibbo and Beckett, 1974; Van Campen and Murphy, 1957; Waheed, 1991; Westman and Neville, 1942; Whitelaw and Hearn, 1991; Whitelaw <f=2>et al.<f=1>, 1992; Williams, 1980; Williams, 1983; Williams, 1992; Williams and Diplock, 1989; Wilson, 1953; Yamashita and Waldron, 1958; Yamashita and Waldron, 1959; Yano, 1991; Yonemori <f=2>et al.<f=1>, 1985; Yesaki and Waheed, 1991; Yesaki and Waheed, 1992

#### Recovering the tags

Aloncle and Delaporte, 1970; Aloncle and Delaporte, 1974a; Anonymous, 1953a; Anonymous, 1963m; Anonymous, 1964k; Anonymous, 1972f; Anonymous, 1973a; Anonymous, 1974a; Anonymous, 1976c; Anonymous, 1977g; Anonymous, 1978d; Anonymous, 1982c; Anonymous, 1983d; Anonymous, 1983e; Anonymous, 1986c; Anonymous, 1986n; Anonymous, 1988a; Anonymous, 1988d; Anonymous, 1991a; Anonymous, 1992o; Ariz <f=2>et al.<f=1>, 1991; Bailey, 1987b; Bard, 1984b; Bard <f=2>et al.<f=1>, 1983; Barut and Arce, 1991; Bayliff and Holland, 1986; Beardsell, 1987; Blunt and Messersmith, 1960; Broadhead, 1959; Caton, 1987; Caton, 1991; Clemens, 1961; Clemens and Roedel, 1964; Cort, 1990b; Eckert and Majkowski, 1987; Godsil, 1938; Habib, Clement, Iwasa, Swanson, and Bailey, 1982; Habib <f=2>et al.<f=1>, 1981; Hearn, 1989; Hearn and Majkowski, 1987a; Hilborn, 1988; Iselin, 1963; Ishida, 1989; Itano, 1992; Kearney, 1983; Kearney, 1992; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Chivers, and Weber, 1984; Labelle, 1992; Lenarz and Zweifel, 1979; Lewis, 1977b; Lewis, 1980b; Lewis, 1989; Lewis, 1991; Majkowski, 1982a; Majkowski <f=2>et al.<f=1>, 1984; Majkowski <f=2>et al.<f=1>, 1988; Mather, 1963a; Mather and working party, 1972; Miyake, 1990; Miyake and Symons, 1983; Murray, 1987; Naamin, 1991; Otsu, 1970; Pepperell, 1992b; Rodríguez-Roda, 1964c; Schaefer, 1958; Schaefer, 1962; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963; Scott <f=2>et al.<f=1>, 1990; Shiohama, 1990; Shomura, 1987; Sitan, 1989b; Watkins, 1987; Whitelaw and Hearn, 1991; Whitelaw <f=2>et al.<f=1>, 1992; Williams, 1980; Yamaguchi and Kikawa, 1982; Yamashita and Waldron, 1959; Yonemori <f=2>et al.<f=1>, 1985

#### Handling the recapture data

Bayliff and Holland, 1986; Caton, 1991; Clay, 1991; Honma and Yonemori, 1985; Kleiber and Maynard, 1982; Lewis, 1989; Majkowski, 1982a; Miyake, 1990; Miyake and Symons, 1983; Rochepeau, 1991b; Scott <f=2>et al.<f=1>, 1990; Sitan, 1989b

#### Sonic or archival tagging

Anonymous, 1968c; Anonymous, 1983l; Bass and Rascovich, 1965; Bayliff and Holland, 1986; Brill <f=2>et al.<f=1>, 1984; Butler and Pincock, 1978; Carey <f=2>et al.<f=1>, 1984; Carey and Lawson, 1973; Carey and Olson, 1982; Carey and Robison, 1981; Cayré, 1991a; Cayré, 1991b; Cayré and Chabanne, 1986; Cayré, Chabanne, Moarii, and Ugolini, 1986; Davis and Gunn, 1992a; Davis and Gunn, 1992b; Holland <f=2>et al.<f=1>, 1985; Holland <f=2>et al.<f=1>, 1990b; Jolley and Irby, 1979; Kanwisher <f=2>et al.<f=1>, 1974; Laurs <f=2>et al.<f=1>, 1977; Porter and Hogans, 1992; Yuen, 1970; Yuen <f=2>et al.<f=1>, 1974

### **Design of tagging experiments**

Hampton, 1989a; Wetherall and Yong, 1981

## INDEX B

### **Wahoo, <f=2>Acanthocybium solandri<f=1>, Atlantic Ocean**

#### Brief mention

Burnett <f=2>et al.<f=1>, 1977

### **Wahoo, <f=2>Acanthocybium solandri<f=1>, Pacific Ocean**

#### Brief mention

Strasburg, 1969; Uchiyama, 1980

### **Bullet or frigate tuna, <f=2>Auxis<f=1> sp., Atlantic Ocean**

#### Brief mention

Beckett, 1970; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1983; Cayré, 1986; Cayré, 1987; Cendrero, 1973; Diouf, 1986; Rey and Cort, 1979; Rey and Cort, 1981a; Rey and Cort, 1981b

#### Movements

Bard <f=2>et al.<f=1>, 1988

### **Bullet or frigate tuna, <f=2>Auxis<f=1> sp., Indian Ocean**

#### Brief mention

Anonymous, 1988d

### **Bullet or frigate tuna, <f=2>Auxis<f=1> sp., Pacific Ocean**

#### Brief mention

Anonymous, 1952a; Gillett and Kearney, 1980; Kearney, 1981

#### Movements

Hamada <f=2>et al.<f=1>, 1973; Hamada <f=2>et al.<f=1>, 1974; Morita, 1972; Uchida, 1980; Uchida, 1981; Yamashige, 1974

### **Kawakawa, <f=2>Euthynnus affinis<f=1>, Indian Ocean**

#### Brief mention

Anonymous, 1988d

### **Kawakawa, <f=2>Euthynnus affinis<f=1>, Pacific Ocean**

#### Brief mention

Anonymous, 1955h; Anonymous, 1955j; Anonymous, 1958b; Anonymous, 1968c; Anonymous, 1990c; Anonymous, 1991a; Iversen and Yoshida, 1957; Kearney, 1979; Kearney, 1980; Kearney, 1981; Kearney and Gillett, 1978a; Kearney and Gillett, 1979b; Kearney and Hallier, 1979b; Matthews and Deguara, 1992; Pepperell, 1990b; Uchiyama, 1980

#### Growth

Hassan, 1991

#### Movements

Hassan, 1991

#### Sonic or archival tagging

Anonymous, 1968b; Anonymous, 1968c; Anonymous, 1968d

### **Spotted tunny, <f=2>Euthynnus alletteratus<f=1>, Atlantic Ocean**



Brief mention

Akyüz, 1970; Anonymous, 1974f; Anonymous, 1986q; Anonymous, 1988e; Bard, Mensah, and Vendeville, 1987; Beckett, 1970; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1983; Cayré, 1986; Cayré, 1987; Diouf, 1986; Diouf, 1988; González-Garcés, 1981; Mather, 1963b; Miyake, 1990; Nakamura, 1987; Rey and Cort, 1979; Rinaldo <f=2>et al.<f=1>, 1981

Growth

Diouf, 1983

Movements

Bard <f=2>et al.<f=1>, 1988; Diouf, 1983; Rey and Cort, 1981a; Rey and Cort, 1981b

**Black skipjack tuna, <f=2>Euthynnus lineatus<f=1>, Pacific Ocean**

Brief mention

Anonymous, 1952a; Anonymous, 1953c; Anonymous, 1956s; Peterson, 1976; Peterson, 1981; Peterson, 1982

Growth

Peterson, 1983

Movements

Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Muhlia-Melo, 1980a; Muhlia-Melo, 1980b; Peterson, 1980; Peterson, 1983

**Shark mackerel, <f=2>Grammatorcynus bicarinatus<f=1>, Pacific Ocean**

Brief mention

Matthews and Deguara, 1992

**Dogtooth tuna, <f=2>Gymnosarda unicolor<f=1>, Pacific Ocean**

Brief mention

Matthews and Deguara, 1992

**Skipjack tuna, <f=2>Katsuwonus pelamis<f=1>, Atlantic Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Allain and Aloncle, 1968; Aloncle and Delaporte, 1970; Aloncle and Delaporte, 1971; Aloncle and Delaporte, 1974b; Amon Kothias and Bard, 1983; Anonymous, 1964k; Anonymous, 1974f; Anonymous, 1979f; Anonymous, 1979g; Anonymous, 1981g; Anonymous, 1981h; Anonymous, 1982f; Anonymous, 1982g; Anonymous, 1983g; Anonymous, 1983h; Anonymous, 1986h; Anonymous, 1986i; Anonymous, 1986j; Anonymous, 1986l; Anonymous, 1986m; Anonymous, 1986n; Anonymous, 1986o; Anonymous, 1986p; Anonymous, 1986q; Anonymous, 1986r; Anonymous, 1986s; Anonymous, 1986t; Anonymous, 1988e; Anonymous, 1988f; Anonymous, 1988h; Bard, Mensah, and Vendeville, 1987; Beckett, 1970; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1981; Cayré, 1983; Cayré <f=2>et al.<f=1>, 1974; Cort, 1987; Cort, 1990a; Delgado de Molina and Santana, 1987; Delgado de Molina <f=2>et al.<f=1>, 1991; Far Seas Fisheries Research Laboratory, 1982; García Morena and Rodríguez Rodríguez, 1983; González-Garcés, 1981; González-Garcés, 1982; González-Garcés, 1983; González-Garcés, 1985; González-Garcés, 1986; González-Garcés, 1987; Guerault, 1981; Guzmán, 1989; Instituto Español de Oceanografía, 1992; Koffi <f=2>et al.<f=1>, 1982; Kume, 1981a; Kume, 1981b; Kume, 1982; Kume, 1983; Lamboeuf, 1973; Letaconnoux, 1971; Letaconnoux, 1972; Letaconnoux, 1973; Letaconnoux, 1974; Mather, 1963b; Mather and Mason, 1973; Mather and working party, 1969; National Marine Fisheries Service, 1974; National Marine Fisheries Service, 1981; National Marine Fisheries Service, 1982; Negreiros Aragão, 1978; Negreiros Aragão, 1979; Pianet, 1984; Rinaldo and Vergne, 1981; Sakagawa, 1986; Santa Rita de Viera, 1982; Santa Rita de Viera <f=2>et al.<f=1>, 1983; Symons, 1981; The Spanish Institute of Oceanography, 1991; Tibbo and Beckett, 1971; Zavala Camin, 1982

## Growth

Anonymous, 1977c; Anonymous, 1986f; Antoine and Mendoza, 1986; Bard, 1984b; Bard and Amon Kothias, 1986b; Bard and Antoine, 1986; Cayré <f=2>et al.<f=1>, 1988; Cayré, Diouf, Fonteneau, and Santa-Rita Viera, 1986; Cayré, Fonteneau, and Diouf, 1986; Fonteneau, 1973; Gong and Lee, 1983; Miyake, 1990; Pianet, 1983; Santos Guerra and Torrez Nuñez, 1981; Santos and Torres, 1983

## Mortality

Anonymous, 1986f; Bard, 1984b; Bard, 1986; Bard <f=2>et al.<f=1>, 1983; Cayré, Diouf, Fonteneau, and Santa-Rita de Viera, 1986; Fonteneau, 1973; Hunter <f=2>et al.<f=1>, 1986; Kleiber, Chivers, and Weber, 1984; Miyake, 1990; Pianet, 1983

## Movements

Amon Kothias and Bard, 1985; Anonymous, 1976f; Anonymous, 1977c; Anonymous, 1986f; Antoine and Mendoza, 1986; Bard, 1984b; Bard, 1986; Bard and Amon Kothias, 1986b; Bard and Antoine, 1986; Bard <f=2>et al.<f=1>, 1988; Bard <f=2>et al.<f=1>, 1983; Cayré, Diouf, Fonteneau, and Santa-Rita de Viera, 1986; Cayré, Fonteneau, and Diouf, 1986; Delgado Molina <f=2>et al.<f=1>, 1987; Fonteneau, 1973; Gong and Lee, 1983; Hunter <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mather and Bartlett, 1966; Mather and working party, 1972; Miyabe and Bard, 1986; Miyake, 1990; Pianet, 1983; Santana <f=2>et al.<f=1>, 1990; Santos Guerra, 1986; Santos Guerra and García-Ramos, 1985; Santos Guerra and García-Ramos, 1986; Santos Guerra and Torres Nuñez, 1981; Santos Guerra and Torres Nuñez, 1982; Santos and Torres, 1983; Shomura, 1988; Suárez Caabro and Duarte Bello, 1961; Vialov and Ovchinnikov, 1986; Yamaguchi and Kikawa, 1982

## Schooling

Cayré, 1982b; Cayré, 1984

## Shedding of tags

Bard, 1986; Kleiber, Chivers, and Weber, 1984

## Sonic or archival tagging

Anonymous, 1982d; Anonymous, 1982e; Anonymous, 1983f; Anonymous, 1986g; Anonymous, 1986k; Bard and Pincock, 1982; Cayré, 1982b; Cayré, 1984; Hunter <f=2>et al.<f=1>, 1986; Lévenez, 1982; Miyake, 1990

## Stock structure

Anonymous, 1977c; Anonymous, 1986f; Bard and Amon Kothias, 1986b; Bard <f=2>et al.<f=1>, 1988; Cayré, Fonteneau, and Diouf, 1986; Fonteneau, 1973; Miyabe and Bard, 1986; Miyake, 1990

### **Skipjack tuna, <f=2>Katsuwonus pelamis<f=1>, Indian Ocean**

## Brief mention

Anonymous, 1987h; Anonymous, 1988d; Anonymous, 1990d; Anonymous, 1991a; Anonymous, 1991c; Shomura, 1987; Takahashi <f=2>et al.<f=1>, 1988; Waheed, 1991; Yesaki and Waheed, 1991

## Growth

Anonymous, 1990c; Cayré and Ramcharrun, 1991; Rochepeau, 1991a; Yesaki and Waheed, 1992

## Movements

Anonymous, 1990c; Cayré, 1991a; Cayré and Ramcharrun, 1991; Rochepeau, 1991b; Yano, 1991; Yeesaki and Waheed, 1992

## Sonic or archival tagging

Association Thonière-Commission de l'Océan Indien, 1991; Cayré, 1991a; Cayré, 1991b

### **Skipjack tuna, <f=2>Katsuwonus pelamis<f=1>, Pacific Ocean**

## Brief mention

Akyüz, 1966; Akyüz, 1970; Anonymous, 1950a; Anonymous, 1950c; Anonymous, 1950e; Anonymous, 1953a; Anonymous, 1953b; Anonymous, 1953c; Anonymous, 1953d; Anonymous, 1953e; Anonymous, 1953f; Anonymous, 1953g; Anonymous, 1953h; Anonymous, 1954d; Anonymous, 1954g; Anonymous, 1954h; Anonymous, 1954i; Anonymous, 1954j; Anonymous, 1954k; Anonymous, 1954l; Anonymous, 1955b; Anonymous, 1955c; Anonymous, 1955e; Anonymous, 1955f; Anonymous, 1955g; Anonymous, 1955h; Anonymous, 1955i; Anonymous, 1955k; Anonymous, 1955n; Anonymous, 1955t; Anonymous,

1956i; Anonymous, 1956j; Anonymous, 1956q; Anonymous, 1956r; Anonymous, 1956s; Anonymous, 1956t; Anonymous, 1956w; Anonymous, 1956x; Anonymous, 1956aa; Anonymous, 1957a; Anonymous, 1957d; Anonymous, 1957e; Anonymous, 1957g; Anonymous, 1957h; Anonymous, 1957i; Anonymous, 1957k; Anonymous, 1957q; Anonymous, 1957r; Anonymous, 1957v; Anonymous, 1957z; Anonymous, 1957bb; Anonymous, 1958b; Anonymous, 1958c; Anonymous, 1958d; Anonymous, 1958f; Anonymous, 1958j; Anonymous, 1958l; Anonymous, 1958p; Anonymous, 1958q; Anonymous, 1958t; Anonymous, 1958w; Anonymous, 1959f; Anonymous, 1959g; Anonymous, 1959h; Anonymous, 1960d; Anonymous, 1961b; Anonymous, 1963k; Anonymous, 1964k; Anonymous, 1970a; Anonymous, 1971b; Anonymous, 1972d; Anonymous, 1972e; Anonymous, 1972g; Anonymous, 1977g; Anonymous, 1977h; Anonymous, 1977i; Anonymous, 1978a; Anonymous, 1978b; Anonymous, 1978c; Anonymous, 1978f; Anonymous, 1979b; Anonymous, 1979h; Anonymous, 1980a; Anonymous, 1980b; Anonymous, 1980h; Anonymous, 1981e; Anonymous, 1986c; Anonymous, 1986e; Anonymous, 1987h; Anonymous, 1990c; Anonymous, 1992b; Anonymous, 1992h; Arce and Barut, 1989; Barut and Arce, 1991; Bayliff, 1973; Bayliff and Holland, 1986; Bayliff and Hunt, 1981; Beckett, 1970; Broadhead, 1959; Fink, 1965b; Gillett and Kearney, 1980; Godsil, 1936; Godsil, 1938; Habib and Carey, 1981; Habib, Clement, Iwasa, Swanson, and Bailey, 1982; Hallier and Kearney, 1980; Hida, 1970a; Hida, 1970b; Hilborn, 1988; Ichikawa, 1981; Ishida, 1989; Itano, 1991; Itano, 1992; Itano and Williams, 1992; Iversen and Yoshida, 1957; Iwasa and Mizuno, 1979; Jakobsson, 1970; Joseph, 1981; Kailola, 1978; Kearney, 1974; Kearney, 1977b; Kearney, 1978b; Kearney, 1978c; Kearney and Argue, 1980; Kearney and Gillett, 1978a; Kearney and Gillett, 1978b; Kearney and Gillett, 1979a; Kearney and Gillett, 1979b; Kearney and Gillett, 1980; Kearney and Gillett, 1982; Kearney, Gillett, and Hallier, 1979; Kearney, Gillett, and Whyman, 1979; Kearney and Hallier, 1978a; Kearney and Hallier, 1978b; Kearney and Hallier, 1978c; Kearney and Hallier, 1978d; Kearney and Hallier, 1979a; Kearney and Hallier, 1979b; Kearney and Hallier, 1980a; Kearney and Hallier, 1980b; Kearney and Hallier, 1980c; Kearney, Hallier, and Gillett, 1979; Kearney, Hallier, and Kleiber, 1978; Kearney and Lewis, 1978; Kearney, Lewis, and Hallier, 1978; Kearney, Lewis, and Smith, 1972; Lewis, 1977a; Lewis, 1992a; Lewis, 1992b; Lewis <f=2>et al.<f=1>, no date; Leyendekkers, 1964; Marr, 1963b; Matthews and Deguara, 1992; Murray, 1990; Otsu, 1968; Pepperell, 1990b; Pepperell, 1992a; Peterson, 1972; Schaefer, 1956; Sherman, 1962; Shiohama, 1990; Sitan, 1989a; Suda, 1966; Thomson, 1962; Uda, 1936; Vuki, 1989; Williams, 1971; Wilson, 1953; Wilson and Austin, 1959

#### Abundance

Kearney, 1982a; Ottesen and Grant, 1982

#### Behavior

Anonymous, 1957t

#### Growth

Anonymous, 1956h; Anonymous, 1956l; Anonymous, 1956u; Anonymous, 1958a; Anonymous, 1958o; Anonymous, 1958s; Anonymous, 1958v; Anonymous, 1959a; Anonymous, 1967d; Anonymous, 1979i; Anonymous, 1981d; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984b; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985f; Anonymous, 1991a; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Argue <f=2>et al.<f=1>, 1986; Bayliff, 1988b; Brock and Marr, 1960; Clemens and Roedel, 1964; Ellway <f=2>et al.<f=1>, 1983; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1988; Forsbergh, 1989; Fujino, 1972; Gillett and Kearney, 1983; Habib <f=2>et al.<f=1>, 1980b; Habib and Voss, 1980; Iwasa <f=2>et al.<f=1>, 1982; Joseph and Calkins, 1969; Joseph and working party, 1969; Josse <f=2>et al.<f=1>, 1979; Kearney, 1975; Kearney, 1977a; Kearney, 1978a; Kearney, 1982b; Kearney, 1983; Kearney, 1986; Kleiber <f=2>et al.<f=1>, 1983a; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lawson <f=2>et al.<f=1>, 1984; Lewis, 1991; Matsumoto <f=2>et al.<f=1>, 1984; Naamin, 1991; Peterson, 1967; Peterson, 1968; Peterson, 1977; Peterson, 1978; Peterson, 1980; Peterson, 1981; Peterson, 1982; Peterson, 1983; Peterson, 1984; Rothschild, 1967; Schaefer, 1957b; Schaefer, 1960; Schaefer, 1961; Schaefer <f=2>et al.<f=1>, 1961; Sharp, 1983; Shomura, 1966; Sibert <f=2>et al.<f=1>, 1983; Uktolseja, 1987; Uktolseja, 1989; Waldron, 1963; Wankowski, 1981; Wild and Foreman, 1980; Yamashita and Waldron, 1959

#### Interactions

Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i;

Anonymous, 1984j; Anonymous, 1985c; Anonymous, 1985f; Anonymous, 1991b; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Bayliff, 1983; Bayliff, 1984; Ellway <f=2>et al.<f=1>, 1983; Fink and Bayliff, 1970; Gillett and Kearney, 1983; Habib <f=2>et al.<f=1>, 1979; Habib <f=2>et al.<f=1>, 1980a; Habib <f=2>et al.<f=1>, 1980b; Habib <f=2>et al.<f=1>, 1981; Hilborn, 1987; Hilborn, 1989; Hilborn and Sibert, 1988; Kearney, 1982a; Kearney, 1982b; Kearney, 1983; Kleiber, Argue, and Kearney, 1983a; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lewis, 1991; Mullen, 1989; Polacheck, 1990; Sibert, 1984; Ward and Caton, 1992

#### Mortality

Anonymous, 1958i; Anonymous, 1964i; Anonymous, 1982h; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984b; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985b; Anonymous, 1985f; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Asano, 1991; Barrett, 1965; Bayliff, 1977; Ellway <f=2>et al.<f=1>, 1983; Fink, 1965a; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1987; Gillett and Kearney, 1983; Hunter <f=2>et al.<f=1>, 1986; Inoue, 1973; Joseph and Calkins, 1969; Joseph and working party, 1969; Kawasaki, 1965; Kearney, 1977a; Kearney, 1982a; Kearney, 1982b; Kearney, 1983; Kearney, 1986; Kearney, 1989; Kleiber <f=2>et al.<f=1>, 1983a; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber, Chivers, and Weber, 1984; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lewis, 1980b; Lewis and Hampton, 1992; Marr, 1963a; Matsumoto, 1975; Matsumoto <f=2>et al.<f=1>, 1984; Mullen, 1989; Peterson, 1966; Peterson, 1967; Peterson, 1968; Peterson, 1969; Peterson, 1975; Peterson, 1976; Peterson, 1985; Rothschild, 1966; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1960; Schaefer, 1961; Schaefer, 1963; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963; Sibert, 1984; Tauchi, 1943

#### Movements

Anonymous, 1955j; Anonymous, 1955p; Anonymous, 1955q; Anonymous, 1956h; Anonymous, 1956i; Anonymous, 1956u; Anonymous, 1957j; Anonymous, 1957o; Anonymous, 1957u; Anonymous, 1957aa; Anonymous, 1958e; Anonymous, 1958k; Anonymous, 1958m; Anonymous, 1958r; Anonymous, 1958s; Anonymous, 1958v; Anonymous, 1959a; Anonymous, 1959b; Anonymous, 1959c; Anonymous, 1959d; Anonymous, 1959i; Anonymous, 1960g; Anonymous, 1962f; Anonymous, 1962i; Anonymous, 1964i; Anonymous, 1967d; Anonymous, 1969i; Anonymous, 1975a; Anonymous, 1977a; Anonymous, 1979c; Anonymous, 1979d; Anonymous, 1979i; Anonymous, 1980c; Anonymous, 1980d; Anonymous, 1980g; Anonymous, 1981c; Anonymous, 1981d; Anonymous, 1982h; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984b; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985b; Anonymous, 1985c; Anonymous, 1985f; Anonymous, 1985g; Anonymous, 1986u; Anonymous, 1991a; Anonymous, 1991b; Asano, 1991; Argue, 1981; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Argue <f=2>et al.<f=1>, 1986; Barrett, 1965; Bayliff, 1983; Bayliff, 1984; Bayliff, 1989; Blackburn and Williams, 1975; Blunt and Messersmith, 1960; Brock, 1965; Brock and Marr, 1960; Caton, 1980; Clemens, no date; Clemens and Roedel, 1964; Ellway <f=2>et al.<f=1>, 1983; Fink, 1966; Fink and Bayliff, 1970; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1988; Frey, 1971; Fujino, 1967; Fujino, 1972; Ganaden, 1987; Gillett and Kearney, 1983; Habib <f=2>et al.<f=1>, 1979; Habib, Clement, and Iwasa, 1982; Habib <f=2>et al.<f=1>, 1980a; Habib <f=2>et al.<f=1>, 1980b; Habib <f=2>et al.<f=1>, 1981; Habib and Voss, 1980; Hilborn, 1987; Hilborn, 1989; Hilborn, 1990; Hilborn and Sibert, 1988; Hunter <f=2>et al.<f=1>, 1986; Instituto Nacional de Pesca, 1980; Iwasa <f=2>et al.<f=1>, 1982; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1964; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Josse <f=2>et al.<f=1>, 1979; Kasahara, 1968; Kasahara <f=2>et al.<f=1>, 1971; Kawasaki, 1965; Kawasaki, 1973; Kearney, 1975; Kearney, 1977a; Kearney, 1978d; Kearney, 1979; Kearney, 1980; Kearney, 1981; Kearney, 1982a; Kearney, 1982b; Kearney, 1983; Kearney, 1986; Kearney, 1989; Kitchell, 1980; Kleiber <f=2>et al.<f=1>, 1983a; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber and Kearney, 1983; Landberg, 1966; Lawson and Kearney, 1982; Lewis, 1977b; Lewis, 1980a; Lewis, 1980b; Lewis, 1991; Lewis and Hampton, 1992; Marr, 1963a; Matsumoto, 1975; Matsumoto <f=2>et al.<f=1>, 1984; Merta and Suhendrata, 1985; Mullen, 1989; Naamin, 1991; Otsu,

1970; Ottesen and Grant, 1982; Peterson, 1966; Peterson, 1967; Peterson, 1968; Peterson, 1969; Peterson, 1970; Peterson, 1971; Peterson, 1973; Peterson, 1974; Peterson, 1975; Peterson, 1977; Peterson, 1978; Peterson, 1979; Peterson, 1981; Peterson, 1982; Peterson, 1983; Peterson, 1984; Polacheck, 1990; Rothschild, 1963; Rothschild, 1965; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1959; Schaefer, 1960; Schaefer, 1961; Schaefer, 1962; Schaefer, 1963; Schaefer, 1967; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963; Seckel, 1972; Sharp, 1983; Shomura, 1988; Sibert, 1984; Sibert, 1986; Sprague, 1963; Staff of the Bureau of Commercial Fisheries Biological Laboratories at Honolulu, San Diego, and Stanford, 1963; Sund <f=2>et al.<f=1>, 1981; Tenneson, 1989; Tesch, 1980; Uda, 1972; Uktolseja, 1987; Uktolseja, 1989; Waldron, 1963; Wankowski and Gwyther, 1980; Williams, 1972; Yamashita and Waldron, 1959; Yasui and Mori, 1985; Yonemori <f=2>et al.<f=1>, 1985

#### Physiology

Barrett and Conner, 1962; Barrett and Conner, 1964; Schaefer, 1962; Schaefer, 1963

#### Schooling

Anonymous, 1960g; Bayliff, 1987; Bayliff, 1988c; Hilborn, 1991; Hunter <f=2>et al.<f=1>, 1986; Peterson, 1984

#### Shedding of tags

Anonymous, 1964l; Anonymous, 1991a; Barrett, 1965; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber, Chivers, and Weber, 1984

#### Sonic or archival tagging

Anonymous, 1969b; Anonymous, 1969g; Anonymous, 1976b; Cayré and Chabanne, 1986; Cayré, Chabanne, Moarii, and Ugolini, 1986; Dizon <f=2>et al.<f=1>, 1978; Evans, 1981; Holland <f=2>et al.<f=1>, 1985; Hunter <f=2>et al.<f=1>, 1986; Kitchell, 1980; Matsumoto <f=2>et al.<f=1>, 1984; Tesch, 1980; Yonemori, 1982; Yuen, 1970

#### Stock structure

Anonymous, 1958s; Anonymous, 1960g; Anonymous, 1961d; Anonymous, 1967d; Anonymous, 1977a; Anonymous, 1980g; Anonymous, 1981d; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984b; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985b; Anonymous, 1985f; Argue, 1981; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Argue <f=2>et al.<f=1>, 1986; Asano, 1991; Bayliff, 1983; Bayliff, 1984; Bayliff, 1988b; Brock and Marr, 1960; Caton, 1980; Ellway <f=2>et al.<f=1>, 1983; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1988; Fujino, 1967; Fujino, 1972; Ganaden, 1987; Gillett and Kearney, 1983; Hunter <f=2>et al.<f=1>, 1986; Joseph, 1973; Joseph <f=2>et al.<f=1>, 1964; Joseph and working party, 1969; Kasahara, 1968; Kearney, 1975; Kearney, 1982b; Kearney, 1983; Kearney, 1986; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lewis, 1991; Marr, 1963a; Matsumoto, 1975; Matsumoto <f=2>et al.<f=1>, 1984; Ottesen and Grant, 1982; Peterson, 1983; Richardson, 1983; Rothschild, 1963; Rothschild, 1965; Schaefer, 1957b; Schaefer, 1958; Schaefer, 1967; Sharp, 1983; Shomura, 1988; Sprague, 1963; Staff of the Bureau of Commercial Fisheries Biological Laboratories at Honolulu, San Diego, and Stanford, 1963; Williams, 1972

### **Bonito, <f=2>Sarda<f=1> sp., Atlantic Ocean**

#### Brief mention

Akyüz, 1966; Akyüz, 1970; Aloncle, 1977; Aloncle <f=2>et al.<f=1>, 1976; Anonymous, 1974f; Bard <f=2>et al.<f=1>, 1988; Beckett, 1970; Brêthes, 1978; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1986; Cayré, 1987; Diouf, 1983; Diouf, 1986; González-Garcés, 1981; González-Garcés, 1983; Mather, 1963b; Mather and working party, 1969; Miyake, 1990; Nakamura, 1987; Rey, 1978; Rey and Cort, 1979

#### Growth

Rey and Cort, 1978

#### Movements

Demir, 1963; Rey <f=2>et al.<f=1>, 1984; Rey and Cort, 1978; Rey and Cort, 1981a; Rey and Cort, 1981b

### **Bonito, <f=2>Sarda<f=1> sp., Pacific Ocean**

Brief mention

Anonymous, 1952a; Bayliff and Holland, 1986; Pepperell, 1990b

Growth

Campbell and Collins, 1975

Movements

Collins and MacCall, 1977; Frey, 1971; Thayer, 1973; Yoshida, 1980a; Yoshida, 1980b

Stock structure

Yoshida, 1980a; Yoshida, 1980b

**Albacore tuna, <f=2>Thunnus alalunga<f=1>, Atlantic Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Aloncle, 1977; Aloncle, 1979; Aloncle, 1980a; Aloncle and Delaporte, 1971; Aloncle and Delaporte, 1973b; Aloncle and Delaporte, 1979; Anonymous, 1964c; Anonymous, 1964k; Anonymous, 1965b; Anonymous, 1969h; Anonymous, 1974f; Anonymous, 1977e; Anonymous, 1988f; Anonymous, 1988g; Anonymous, 1990a; Brêthes and Mason, 1979; Cendrero, 1973; Cort, 1986; Cort, 1987; Cort, 1989; Cort, 1990a; Cort and Cárdenas, 1978; Cort <f=2>et al.<f=1>, 1980; Cort and Rey, 1979; Cort <f=2>et al.<f=1>, 1981; Cort, 1989; González-Garcés, 1984; González-Gárce, 1986; González-Gárce, 1987; González-Gárce <f=2>et al.<f=1>, 1977; Guérault, 1981; Hunter <f=2>et al.<f=1>, 1986; Lamboeuf, 1973; Lavin <f=2>et al.<f=1>, 1991; Letaconnou, 1971; Letaconnou, 1974; Letaconnou, 1976; Mather, 1963b; Miyake, 1990; Rey and Cort, 1982; Rey and Cort, 1985; Rodríguez-Roda, 1964b; Stander, 1972; Stander, 1973; Stander, 1974; The Spanish Institute of Oceanography, 1991

Growth

Aloncle <f=2>et al.<f=1>, 1978; Anonymous, 1992c; Cort and Mejuto, 1990; Scott <f=2>et al.<f=1>, 1990

Mortality

Anonymous, 1975c; Hue, 1979; Mather and working party, 1969

Movements

Allain, 1967; Allain and Aloncle, 19668; Aloncle, 1978; Aloncle and Delaporte, 1970; Aloncle and Delaporte, 1973a; Aloncle and Delaporte, 1974a; Aloncle and Delaporte, 1974b; Aloncle and Delaporte, 1975; Aloncle and Delaporte, 1976; Aloncle and Delaporte, 1978; Aloncle and Delaporte, 1980; Aloncle and Delaporte, 1982; Aloncle <f=2>et al.<f=1>, 1972; Aloncle <f=2>et al.<f=1>, 1976; Aloncle <f=2>et al.<f=1>, 1977; Aloncle <f=2>et al.<f=1>, 1978; Anonymous, 1977c; Anonymous, 1977f; Anonymous, 1979e; Anonymous, 1980f; Cort, 1982b; Cort and de la Serna, 1991; Cort and Mejuto, 1990; Cort <f=2>et al.<f=1>, 1992; Delaporte and Guérault, 1980; González-Gárce, 1985; Hue, 1980; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Le Gall, 1974; Letaconnou, 1963; Letaconnou, 1972; Letaconnou, 1973; Letaconnou, 1975; Mather and Mason, 1973; Mather and working party, 1969; Mather and working party, 1972; Mejuto, 1984; Mejuto, 1985; Shomura, 1988; Santos Guerra and García-Ramos, 1985; Scott <f=2>et al.<f=1>, 1990

Stock structure

Aloncle and Delaporte, 1974a; Aloncle and Delaporte, 1978; Anonymous, 1977c; Anonymous, 1979e; Anonymous, 1980f; Anonymous, 1992c; Delaporte and Guérault, 1980; Hue, 1979; Hue, 1980; Letaconnou, 1973; Mather and Mason, 1973

**Albacore tuna, <f=2>Thunnus alalunga<f=1>, Indian Ocean**

Brief mention

Takahashi <f=2>et al.<f=1>, 1988

**Albacore tuna, <f=2>Thunnus alalunga<f=1>, Pacific Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Alverson and Chenoweth, 1951; Alverson and Chatwin, 1964; Anonymous, 1950d; Anonymous, 1952b; Anonymous, 1953a; Anonymous, 1953h; Anonymous, 1954a; Anonymous, 1954c; Anonymous, 1954k; Anonymous, 1955a; Anonymous, 1955d; Anonymous, 1955j; Anonymous, 1955l; Anonymous, 1955o; Anonymous, 1955v; Anonymous, 1956a; Anonymous, 1956d; Anonymous, 1956n; Anonymous, 1956p; Anonymous, 1956u; Anonymous, 1956v; Anonymous, 1956y; Anonymous, 1957b; Anonymous, 1957c; Anonymous, 1957f; Anonymous, 1957x; Anonymous, 1957y; Anonymous, 1958h; Anonymous, 1959h; Anonymous, 1959k; Anonymous, 1960f; Anonymous, 1960h; Anonymous, 1960i; Anonymous, 1961c; Anonymous, 1962e; Anonymous, 1963f; Anonymous, 1963g; Anonymous, 1963k; Anonymous, 1964g; Anonymous, 1964h; Anonymous, 1964k; Anonymous, 1972a; Anonymous, 1972b; Anonymous, 1972g; Anonymous, 1980a; Anonymous, 1986a; Anonymous, 1987a; Anonymous, 1987b; Anonymous, 1988b; Anonymous, 1991b; Argue and Kearney, 1983; Bailey, 1987a; Bailey, 1987b; Bayliff and Holland, 1986; Beardsell, 1987; Bell, 1964; Clemens, 1966b; CSIRO Division of Fisheries and Oceanography, 1961; Godsil, 1936; Graham, 1957; Graham, 1959; Habib and Carey, 1981; Habib, Clement, Iwasa, Swanson, and Bailey, 1982; Habib <f=2>et al.<f=1>, 1981; Ichikawa, 1981; Iwasa <f=2>et al.<f=1>, 1982; Kearney, 1980; Kearney, 1981; Kearney and Gillett, 1979b; Kearney and Hallier, 1979a; Lewis and Hampton, 1992; Matthews and Deguara, 1992; McGary and Graham, 1960; Murray, 1987; Murray and Bailey, 1986; Owen, 1963; Partlo, 1951; Pepperell, 1990b; Powell, 1950; Powell <f=2>et al.<f=1>, 1952; Roberts, 1974; Robins, 1960; Scagel, 1949; Schaefers, 1952; Strasburg, 1969; Suda, 1966; Thomson, 1962; Watkins, 1987; Wilson, 1953; Yamanaka, 1966

#### Growth

Anonymous, 1956h; Anonymous, 1957p; Anonymous, 1957aa; Anonymous, 1958g; Anonymous, 1958n; Anonymous, 1958v; Anonymous, 1981a; Anonymous, 1988c; Anonymous, 1992m; Anonymous, 1992p; Brock and Marr, 1960; Clemens, 1961; Clemens, 1962; Clemens and Roedel, 1964; Foreman, 1980a; Foreman, 1980b; Hunter <f=2>et al.<f=1>, 1986; Joseph and working party, 1969; Labelle, 1992; Laurs, 1983; Laurs <f=2>et al.<f=1>, 1985; Laurs and Wetherall, 1981; Murray, 1990; Otsu, 1960; Otsu and Uchida, 1959; Otsu and Uchida, 1963; Shomura, 1966; Yoshida and Otsu, 1963

#### Interactions

Labelle, 1992; Rothschild and Yong, 1970

#### Mortality

Inoue, 1973; Joseph and working party, 1969

#### Movements

Anonymous, 1954f; Anonymous, 1954l; Anonymous, 1954m; Anonymous, 1955r; Anonymous, 1956h; Anonymous, 1956l; Anonymous, 1956z; Anonymous, 1956bb; Anonymous, 1957d; Anonymous, 1957m; Anonymous, 1957n; Anonymous, 1957p; Anonymous, 1957aa; Anonymous, 1958g; Anonymous, 1958n; Anonymous, 1958r; Anonymous, 1958s; Anonymous, 1958u; Anonymous, 1958v; Anonymous, 1959a; Anonymous, 1959d; Anonymous, 1960c; Anonymous, 1960e; Anonymous, 1962j; Anonymous, 1962k; Anonymous, 1963e; Anonymous, 1981a; Anonymous, 1988c; Anonymous, 1992m; Anonymous, 1992p; Blunt, 1954; Brock, 1965; Brock and Marr, 1960; Clemens, 1961; Clemens, 1962; Clemens, 1966a; Clemens and Roedel, 1964; Foreman, 1980a; Foreman, 1980b; Frey, 1971; Gansele and Clemens, 1953; Graham, 1956; Hunter <f=2>et al.<f=1>, 1986; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Kikawa <f=2>et al.<f=1>, 1977; Labelle, 1992; Landberg, 1966; Laurs, 1983; Laurs and Lynn, 1977; Laurs and Lynn, 1991; Marr, 1963a; Mather, 1969; McGary <f=2>et al.<f=1>, 1961; Murray, 1990; Otsu, 1960; Otsu and Uchida, 1959; Otsu and Uchida, 1962; Otsu and Uchida, 1963; Rothschild and Yong, 1970; Schaefer, 1967; Sharp and Dotson, 1977; Shomura, 1988; Shomura and Otsu, 1956; Suda, 1962; Suda, 1963; Sund <f=2>et al.<f=1>, 1981; Ueyanagi, 1980; Van Campen and Murphy, 1957; Yoshida and Otsu, 1963

#### Shedding of tags

Clemens, 1961; Laurs <f=2>et al.<f=1>, 1976

#### Sonic or archival tagging

Anonymous, 1982a; Evans, 1981; Holland <f=2>et al.<f=1>, 1985; Holts, 1985; Hunter <f=2>et al.<f=1>, 1986; Laurs, 1972; Laurs <f=2>et al.<f=1>, 1977; Pepperell and Holland, 1992; Tesch, 1980

#### Stock structure

Anonymous, 1956l; Anonymous, 1957n; Anonymous, 1957p; Anonymous, 1957w; Anonymous, 1958r; Anonymous, 1958s; Anonymous, 1958u; Anonymous, 1959j; Anonymous, 1960a; Anonymous, 1960c;

Anonymous, 1960e; Anonymous, 1961a; Anonymous, 1961d; Anonymous, 1980e; Anonymous, 1992p; Clemens, 1961; Clemens, 1962; Graham, 1956; Hunter <f=2>et al.<f=1>, 1986; Joseph and working party, 1969; Laurs, 1983; Laurs and Lynn, 1977; Laurs and Lynn, 1991; McGary <f=2>et al.<f=1>, 1961; Otsu, 1960; Otsu and Uchida, 1962; Otsu and Uchida, 1963; Rothschild and Yong, 1970; Shomura, 1988; Suda, 1962; Suda, 1963; Sund <f=2>et al.<f=1>, 1981; Yoshida and Otsu, 1963

### **Yellowfin tuna, <f=2>Thunnus albacares<f=1>, Atlantic Ocean**

#### **Brief mention**

Akyüz, 1966; Akyüz, 1970; Amon Kothias and Bard, 1987; Anonymous, 1963a; Anonymous, 1964b; Anonymous, 1964k; Anonymous, 1965b; Anonymous, 1979g; Anonymous, 1981g; Anonymous, 1982g; Anonymous, 1986m; Anonymous, 1986n; Anonymous, 1986q; Anonymous, 1987e; Anonymous, 1988a; Anonymous, 1988e; Anonymous, 1988f; Anonymous, 1988h; Bard and Amon Kothias, 1988; Bard, Mensah, and Vendeville, 1987; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1981; Cayré, 1983; Delgado de Molina and Santana, 1987; Far Seas Fisheries Research Laboratory, 1982; González-Garcés, 1985; González-Garcés, 1986; González-Garcés, 1987; Guzmán, 1989; Hunter <f=2>et al.<f=1>, 1986; Instituto Español de Oceanografía, 1992; Kume, 1981a; Kume, 1981b; Letaconnoux, 1972; Letaconnoux, 1973; Mather, 1963a; Mather, 1963b; Mather and Mason, 1973; Mather and working party, 1969; Mensah, 1988; Nakamura, 1987; National Marine Fisheries Service, 1974; National Marine Fisheries Service, 1989; Negreiros Aragão, 1978; Negreiros Aragão, 1979; Rinaldo and Vergne, 1981; Santa Rita Viera, 1982; Santa Rita Viera <f=2>et al.<f=1>, 1983; Santos Guerra and García-Ramos, 1985; Santos Guerra and Torres Nuñez, 1981; Stander, 1972; Stander, 1973; Symons, 1981; The Spanish Institute of Oceanography, 1991; Tibbo and Beckett, 1971; Yamaguchi and Kikawa, 1982

#### **Growth**

Anonymous, 1986d; Anonymous, 1991d; Bard, 1984a; Bard, 1985; Bard, 1989; Bard and Amon Kothias, 1986b; Bard, Amon Kothias, and Holzapfel, 1987; Bard and Scott, 1989; Bard <f=2>et al.<f=1>, 1991; Capisano and Fonteneau, 1991; Cayré <f=2>et al.<f=1>, 1988; Fonteneau, 1973; Fonteneau, 1980; Fonteneau, 1981; Fonteneau, 1986; Gong and Lee, 1983; Miyabe, 1984; Miyake, 1990

#### **Interactions**

Anonymous, 1991d; Fonteneau, 1981; Fonteneau, 1986; Hilborn and Sibert, 1988; Miyake, 1990

#### **Mortality**

Fonteneau, 1973

#### **Movements**

Amon Kothias and Bard, 1985; Anonymous, 1979e; Anonymous, 1986d; Anonymous, 1986o; Anonymous, 1991d; Bard, 1989; Bard and Amon Kothias, 1986b; Bard, Amon Kothias, and Holzapfel, 1987; Bard and Cayré, 1986; Bard <f=2>et al.<f=1>, 1988; Bard and Scott, 1989; Bard and Scott, 1991; Bard and Scott, 1992; Beckett, 1970; Browder <f=2>et al.<f=1>, 1991; Cayré <f=2>et al.<f=1>, 1974; Fonteneau, 1973; Fonteneau, 1981; Fonteneau, 1982; Fonteneau, 1992a; Gong and Lee, 1983; Hilborn and Sibert, 1988; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mather and working party, 1972; Miyake, 1990; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; Shomura, 1988; Suárez Caabro and Duarte Bello, 1961

#### **Stock structure**

Anonymous, 1978d; Anonymous, 1979e; Anonymous, 1991d; Bard, 1989; Bard and Cayré, 1986; Bard <f=2>et al.<f=1>, 1988; Bard and Scott, 1989; Bard and Scott, 1991; Bard and Scott, 1992; Cayré <f=2>et al.<f=1>, 1974; Fonteneau, 1973; Fonteneau, 1981; Fonteneau, 1982; Fonteneau, 1992a; Miyake, 1990

### **Yellowfin tuna, <f=2>Thunnus albacares<f=1>, Indian Ocean**

#### **Brief mention**

Anonymous, 1970b; Anonymous, 1988d; Anonymous, 1990d; Anonymous, 1991a; Anonymous, 1991c; Rochepeau, 1991a; Shomura, 1987; Takahashi <f=2>et al.<f=1>, 1988; Waheed, 1991

#### **Growth**

Anonymous, 1990c; Cayré and Ramcharrun, 1991; Fonteneau, 1992b; Yesaki and Waheed, 1991; Yesaki and Waheed, 1992



## Movements

Anonymous, 1990c; Anonymous, 1992a; Cayré, 1991a; Cayré and Ramcharrun, 1991; Nishida, 1991a; Nishida, 1991b; Rochepeau, 1991b; Yano, 1991; Yesaki and Waheed, 1991; Yesaki and Waheed, 1992

## Sonic or archival tagging

Association Thonière-Commission de l'Océan Indien, 1991; Cayré, 1991a; Cayré, 1991b

## Stock structure

Anonymous, 1992a; Fonteneau, 1992b; Nishida, 1991b; Yesaki and Waheed, 1991

## **Yellowfin tuna, <f=2>Thunnus albacares<f=1>, Pacific Ocean**

## Brief mention

Akyüz, 1966; Akyüz, 1970; Alverson and Chatwin, 1964; Anonymous, 1950a; Anonymous, 1950c; Anonymous, 1952a; Anonymous, 1953c; Anonymous, 1953d; Anonymous, 1953f; Anonymous, 1953h; Anonymous, 1954d; Anonymous, 1954h; Anonymous, 1955a; Anonymous, 1955b; Anonymous, 1955c; Anonymous, 1955e; Anonymous, 1955f; Anonymous, 1955h; Anonymous, 1955i; Anonymous, 1955j; Anonymous, 1955m; Anonymous, 1955t; Anonymous, 1955u; Anonymous, 1956b; Anonymous, 1956c; Anonymous, 1956e; Anonymous, 1956g; Anonymous, 1956i; Anonymous, 1956j; Anonymous, 1956k; Anonymous, 1956o; Anonymous, 1956r; Anonymous, 1956s; Anonymous, 1956w; Anonymous, 1956x; Anonymous, 1957a; Anonymous, 1957d; Anonymous, 1957e; Anonymous, 1957g; Anonymous, 1957h; Anonymous, 1957i; Anonymous, 1957r; Anonymous, 1958c; Anonymous, 1958j; Anonymous, 1958k; Anonymous, 1958s; Anonymous, 1958w; Anonymous, 1959g; Anonymous, 1963k; Anonymous, 1964b; Anonymous, 1964k; Anonymous, 1970a; Anonymous, 1972e; Anonymous, 1972g; Anonymous, 1977h; Anonymous, 1977i; Anonymous, 1978b; Anonymous, 1980a; Anonymous, 1980h; Anonymous, 1981c; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1984c; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985b; Anonymous, 1985f; Anonymous, 1986c; Anonymous, 1986e; Anonymous, 1986u; Anonymous, 1987d; Anonymous, 1990c; Anonymous, 1991b; Anonymous, 1992b; Anonymous, 1992h; Arce and Barut, 1989; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Bayliff, 1973; Bayliff, 1988a; Bayliff and Holland, 1986; Bayliff and Hunt, 1981; Beckett, 1970; Broadhead, 1959; Caton, 1987; CSIRO Division of Fisheries and Oceanography, 1961; Ellway <f=2>et al.<f=1>, 1983; Fink, 1965b; Foreman, 1987; Gillett and Kearney, 1980; Gillett and Kearney, 1983; Godsil, 1936; Godsil, 1938; Graham, 1957; Habib, Clement, Iwasa, Swanson, and Bailey, 1982; Habib and Voss, 1980; Hallier and Kearney, 1980; Hida, 1970b; Hynd, 1968; Ishida, 1989; Itano, 1991; Iwasa <f=2>et al.<f=1>, 1982; Jakobsson, 1970; Joseph, 1981; Kailola, 1978; Kearney, 1974; Kearney, 1977b; Kearney, 1978b; Kearney, 1978c; Kearney, 1978d; Kearney, 1979; Kearney, 1980; Kearney, 1981; Kearney, 1982b; Kearney and Argue, 1980; Kearney and Gillett, 1978a; Kearney and Gillett, 1978b; Kearney and Gillett, 1979b; Kearney and Gillett, 1980; Kearney, Gillett, and Whyman, 1979; Kearney and Hallier, 1978a; Kearney and Hallier, 1978b; Kearney and Hallier, 1978c; Kearney and Hallier, 1979b; Kearney and Hallier, 1980a; Kearney and Hallier 1980b; Kearney, Hallier, and Gillett, 1979; Kearney, Hallier, and Kleiber, 1978; Kearney and Lewis, 1978; Kearney, Lewis, and Hallier, 1978; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lewis, 1977a; Lewis, 1992a; Lewis, 1992b; Lewis <f=2>et al.<f=1>, no date; Mather, 1963b; Matthews and Deguara, 1992; Merta and Suhendrata, 1985; Naamin, 1991; Pepperell, 1990b; Peterson, 1979; Roberts, 1975; Schaefer, 1956; Shiohama, 1990; Shomura and Otsu, 1956; Strasburg, 1969; Suda, 1966; Thomson, 1962; Uchiyama, 1980; Uktolseja, 1987; Uktolseja, 1989; Ward, 1987; Ward, 1991; Williams, 1971; Wilson, 1953; Wilson and Austin, 1959; Yamanaka, 1966; Williams and Diplock, 1989

## Effect of tagging

Bayliff, 1988b

## Growth

Anonymous, 1954b; Anonymous, 1957aa; Anonymous, 1991a; Bayliff, 1987; Bayliff, 1988b; Blunt and Messersmith, 1960; Clemens and Roedel, 1964; Cole, 1980a; Cole, 1980b; Itano, 1992; Itano and Williams, 1992; Joseph and working party, 1969; Lewis, 1991; Mimura and staff, 1963; Peterson, 1967; Peterson, 1972; Peterson, 1977; Peterson, 1978; Peterson, 1980; Peterson, 1981; Peterson, 1982; Peterson, 1983; Peterson, 1984; Schaefer, 1957b; Schaefer, 1960; Schaefer, 1961; Schaefer, Broadhead, and Orange,

1963; Schaefer <f=2>et al.<f=1>, 1961; Suzuki, 1971; Ward and Caton, 1992; Wild and Foreman, 1980; Yabuta and Yukinawa, 1959; Yabuta <f=2>et al.<f=1>, 1960

#### Interactions

Anonymous, 1957aa; Anonymous, 1980e; Bayliff, 1979; Bayliff, 1983; Bayliff, 1984; Bayliff and Rothschild, 1974; Deriso <f=2>et al.<f=1>, 1991; Fink and Bayliff, 1970; Gunn <f=2>et al.<f=1>, 1992; Hampton, 1989a; Hilborn, 1987; Hilborn and Sibert, 1988; Ishii, 1978; Ishii, 1979; Itano, 1992; Lenarz and Zweifel, 1979; Lewis, 1991; Miyabe and Bayliff, 1987; Mullen, 1989; Nakano and Bayliff, 1992; Peterson, 1984; Polacheck, 1989; Polacheck, 1990; Ward and Caton, 1992

#### Mortality

Anonymous, 1964l; Barrett, 1965; Bayliff, 1971; Bayliff, 1974; Fink, 1965a; Inoue, 1973; Ishii, 1979; Itano, 1992; Joseph and working party, 1969; Lewis and Hampton, 1992; Mullen, 1989; Peterson, 1966; Peterson, 1967; Peterson, 1969; Peterson, 1972; Peterson, 1974; Peterson, 1975; Peterson, 1985; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1960; Schaefer, 1961; Schaefer, 1962; Schaefer, 1963; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963

#### Movements

Anonymous, 1953b; Anonymous, 1953g; Anonymous, 1954l; Anonymous, 1956u; Anonymous, 1956bb; Anonymous, 1957l; Anonymous, 1957s; Anonymous, 1957aa; Anonymous, 1958e; Anonymous, 1958t; Anonymous, 1959b; Anonymous, 1960h; Anonymous, 1964l; Anonymous, 1969i; Anonymous, 1983k; Anonymous, 1985g; Anonymous, 1991a; Anonymous, 1992i; Barrett, 1965; Bayliff, 1979; Bayliff, 1984; Bayliff, 1989; Bayliff and Rothschild, 1974; Blunt and Messersmith, 1960; Caton and Ward, 1987; Clemens, no date; Clemens and Roedel, 1964; Cole, 1980a; Cole, 1980b; Deriso <f=2>et al.<f=1>, 1991; Fink, 1966; Fink and Bayliff, 1970; Frey, 1971; Hilborn, 1987; Hilborn and Sibert, 1988; Hunter <f=2>et al.<f=1>, 1986; Instituto Nacional de Pesca, 1980; Ishii, 1978; Ishii, 1979; Itano, 1992; Itano and Williams, 1992; Iversen and Yoshida, 1957; Joseph <f=2>et al.<f=1>, 1964; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Lenarz and Zweifel, 1979; Lewis, 1991; Lewis and Hampton, 1992; Marr, 1963a; Martínez and Inostroza, 1980; Miyabe and Bayliff, 1987; Mullen, 1989; Nakamura, 1969; Nakano and Bayliff, 1992; Peterson, 1966; Peterson, 1967; Peterson, 1968; Peterson, 1969; Peterson, 1970; Peterson, 1971; Peterson, 1972; Peterson, 1973; Peterson, 1974; Peterson, 1975; Peterson, 1976; Peterson, 1977; Peterson, 1978; Peterson, 1980; Peterson, 1981; Peterson, 1982; Peterson, 1983; Peterson, 1984; Polacheck, 1989; Polacheck, 1990; Robins, 1960; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1959; Schaefer, 1960; Schaefer, 1961; Schaefer, 1962; Schaefer, 1963; Schaefer, 1967; Schaefer, Broadhead, and Orange, 1963; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963; Shomura, 1988; Sibert, 1986; Sund <f=2>et al.<f=1>, 1981; Suzuki <f=2>et al.<f=1>, 1978; Tenneson, 1989; Watkins, 1987; Yonemori <f=2>et al.<f=1>, 1985

#### Physiology

Barrett and Conner, 1962; Barrett and Conner, 1964; Schaefer, 1962; Schaefer, 1963

#### Shedding of tags

Anonymous, 1964l; Anonymous, 1991a; Barrett, 1965; Bayliff and Mobrand, 1972; Chapman <f=2>et al.<f=1>, 1965; Ishii, 1979; Itano, 1992; Peterson, 1966; Peterson, 1971; Peterson, 1972

#### Sonic or archival tagging

Anonymous, 1968c; Anonymous, 1981i; Anonymous, 1983l; Anonymous, 1984a; Brill <f=2>et al.<f=1>, 1984; Carey and Olson, 1982; Cayré and Chabanne, 1986; Cayré, Chabanne, Moarii, and Ugolini, 1986; Holland <f=2>et al.<f=1>, 1985; Holland <f=2>et al.<f=1>, 1990b; Hunter <f=2>et al.<f=1>, 1986; Pepperell and Holland, 1992; Peterson, 1982; Suzuki, 1984; Suzuki, 1988; Suzuki and Kume, 1982; Yonemori, 1982

#### Stock structure

Barrett, 1965; Bayliff, 1983; Bayliff, 1984; Gunn <f=2>et al.<f=1>, 1992; Hunter <f=2>et al.<f=1>, 1986; Ishii, 1978; Joseph, 1973; Joseph <f=2>et al.<f=1>, 1964; Joseph and working party, 1969; Lewis, 1991; Marr, 1963a; Schaefer, 1957b; Schaefer, 1967; Schaefer, Broadhead, and Orange, 1963; Suzuki <f=2>et al.<f=1>, 1978

### **Blackfin tuna, <f=2>Thunnus atlanticus<f=1>, Atlantic Ocean**

#### Brief mention

Akyüz, 1970; Anonymous, 1981g; Anonymous, 1986j; Division of Pelagic Resources, Far Seas Fisheries Research Laboratory, 1980; García Morena and Rodríguez Rodríguez, 1983; Mather, 1963b; Miyake, 1990; Negreiros Aragão, 1979; Rinaldo <f=2>et al.<f=1>, 1981

Movements

Mather and working party, 1972

**Southern bluefin tuna, <f=2>Thunnus maccoyii<f=1>**

Brief mention

Akyüz, 1966; Akyüz, 1970; Anonymous, 1961e; Anonymous, 1962l; Anonymous, 1962m; Anonymous, 1963b; Anonymous, 1963h; Anonymous, 1963l; Anonymous, 1963m; Anonymous, 1965d; Anonymous, 1969e; Anonymous, 1972e; Anonymous, 1976c; Anonymous, 1979a; Anonymous, 1982c; Anonymous, 1983b; Anonymous, 1983c; Anonymous, 1992f; Austin, 1973; Bayliff and Holland, 1986; Evans and Hynd, 1972; Hampton, 1986; Hearn and Majkowski, 1987a; Hunter <f=2>et al.<f=1>, 1986; Hynd and Kerrisk, 1971; Joll, 1992; Kesteven, 1967; Lenarz and Zweifel, 1979; Matthews and Deguara, 1992; Thomson, 1962; Williams and Diplock, 1989

Abundance

Majkowski, 1982b; Majkowski <f=2>et al.<f=1>, 1981

Effect of tagging

Caton, 1991; Hampton, 1986; Hampton, 1989b

Growth

Anonymous, 1960h; Anonymous, 1962o; Anonymous, 1981b; Anonymous, 1981f; Anonymous, 1982b; Anonymous, 1992e; Anonymous, 1992g; Caton, 1991; CSIRO Division of Fisheries and Oceanography, 1961; Hampton, 1989a; Hampton, 1989b; Hampton, 1991a; Hearn, 1986; Hynd and Robins, 1967; Hynd and Vaux, 1963; Kesteven, 1964; Kirkwood, 1983; Leyendekkers, 1964; Lucas, 1974; Majkowski, 1982a; Majkowski <f=2>et al.<f=1>, 1988; Majkowski and Murphy, 1983; Murphy, 1977; Olson, 1980a; Olson, 1980b; Robins, 1960; Robins, 1963; Ross and Swanson, 1986; Shingu, 1978; Ward and Caton, 1992; Whitelaw <f=2>et al.<f=1>, 1992; Williams, 1980; Yukinawa, 1970

Interactions

Caton <f=2>et al.<f=1>, 1990; Hampton, 1989b; Hearn, 1989; Hearn and Majkowski, 1987b; Majkowski <f=2>et al.<f=1>, 1988; Polacheck, 1992; Robins, 1966

Mortality

Anonymous, 1980e; Caton, 1991; Caton <f=2>et al.<f=1>, 1990; Eckert and Majkowski, 1987; Hampton, 1989b; Hampton, 1991b; Hearn, 1989; Hearn <f=2>et al.<f=1>, 1987; Hynd, 1965; Hynd, 1973; Hynd <f=2>et al.<f=1>, 1968; Hynd and Lucas, 1974; Kesteven, 1964; Lucas, 1974; Majkowski, 1982b; Majkowski <f=2>et al.<f=1>, 1984; Majkowski <f=2>et al.<f=1>, 1988; Majkowski and Murphy, 1983; Olson, 1980a; Olson, 1980b

Movements

Anonymous, 1960h; Anonymous, 1962h; Anonymous, 1962n; Anonymous, 1966d; Anonymous, 1968e; Anonymous, 1969f; Anonymous, 1972h; Anonymous, 1975b; Anonymous, 1980e; Anonymous, 1981b; Anonymous, 1981f; Anonymous, 1982b; Anonymous, 1986b; Anonymous, 1992e; Caton, 1991; Caton <f=2>et al.<f=1>, 1990; CSIRO Division of Fisheries and Oceanography, 1961; Hampton, 1991b; Hynd, 1965; Hynd, 1969; Hynd, 1974; Hynd and Kerr, 1969; Hynd and Kerrisk, 1970; Hynd and Lucas, 1974; Hynd and Robins, 1967; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Kesteven, 1964; Leyendekkers, 1964; Lucas, 1974; Maclean, 1974; Majkowski <f=2>et al.<f=1>, 1988; Majkowski and Murphy, 1983; Mather, 1969; Murphy, 1977; Murphy and Majkowski, 1981; Murphy <f=2>et al.<f=1>, 1977; Nakamura, 1969; Olson, 1980a; Olson, 1980b; Pepperell, 1985; Polacheck, 1991; Robins, 1960; Robins, 1963; Robins, 1966; Ross and Swanson, 1986; Shingu, 1967; Shingu, 1970; Shingu, 1978; Suda, 1971; Sund <f=2>et al.<f=1>, 1981; Ward and Caton, 1992; Whitelaw and Hearn, 1991; Whitelaw <f=2>et al.<f=1>, 1992; Williams, 1980; Williams, 1983; Williams, 1992

Recruitment

Whitelaw <f=2>et al.<f=1>, 1992

Shedding of tags

Caton, 1991; Eckert and Majkowski, 1987; Hampton, 1989b; Hampton and Kirkwood, 1990; Hearn, 1989; Hearn <f=2>et al.<f=1>, 1991; Hynd, 1965; Hynd, 1969; Hynd <f=2>et al.<f=1>, 1967; Kirkwood, 1981; Lucas, 1974; Majkowski and Murphy, 1983

Sonic or archival tagging

Davis and Gunn, 1992a; Davis and Gunn, 1992b

Stock structure

Anonymous, 1962h; Anonymous, 1962n; Anonymous, 1980e; Caton, 1991; Hynd, 1969; Lucas, 1974; Maclean, 1974; Majkowski, 1982a; Robins, 1963; Shingu, 1967; Shingu, 1970; Shingu, 1978; Ward and Caton, 1992

**Bigeye tuna, <f=2>Thunnus obesus<f=1>, Atlantic Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Aloncle, 1977; Aloncle, 1979; Aloncle and Delaporte, 1974b; Aloncle <f=2>et al.<f=1>, 1978; Amon Kothias and Bard, 1985; Anonymous, 1965b; Anonymous, 1965c; Anonymous, 1966a; Anonymous, 1974a; Anonymous, 1979g; Anonymous, 1981g; Anonymous, 1986m; Anonymous, 1986n; Anonymous, 1986o; Anonymous, 1986q; Anonymous, 1988a; Anonymous, 1988e; Anonymous, 1988f; Bard, Mensah, and Vendeville, 1987; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1981; Cayré, 1983; Cayré <f=2>et al.<f=1>, 1974; Cort, 1987; Cort, 1990a; Cort <f=2>et al.<f=1>, 1981; Far Seas Fisheries Research Laboratory, 1982; González-Garcés, 1984; González-Garcés, 1985; González-Garcés, 1986; Hunter <f=2>et al.<f=1>, 1986; Hurley and Iles, 1982a; Iles <f=2>et al.<f=1>, 1981; Kume, 1981b; Kume, 1982; Letaconneaux, 1974; Letaconneaux, 1976; Mather, 1963b; Mather and Mason, 1973; Mather and working party, 1972; Rey and Cort, 1985; Santos Guerra and García Ramos, 1985; Symons, 1981; Tibbo and Beckett, 1971

Growth

Anonymous, 1978d; Cayré <f=2>et al.<f=1>, 1988; Cayré and Diouf, 1984; Gong and Lee, 1983; Miyabe, 1984; Miyake, 1990

Movements

Aloncle and Delaporte, 1980; Aloncle <f=2>et al.<f=1>, 1976; Aloncle <f=2>et al.<f=1>, 1978; Anonymous, 1987e; Bard and Amon Kothias, 1986b; Bard <f=2>et al.<f=1>, 1988; Gong and Lee, 1983; Joseph <f=2>et al.<f=1>, 1988; Miyabe, 1987; Yamaguchi and Kikawa, 1982

Sonic or archival tagging

Anonymous, 1982d

Stock structure

Bard <f=2>et al.<f=1>, 1988; Miyake, 1990;

**Bigeye tuna, <f=2>Thunnus obesus<f=1>, Indian Ocean**

Brief mention

Anonymous, 1988d; Anonymous, 1990c; Anonymous, 1990d; Anonymous, 1991a; Anonymous, 1991c; Association Thonière-Commission de l'Océan Indien, 1991; Takahashi <f=2>et al.<f=1>, 1988

Growth

Cayré and Ramcharrun, 1991

Movements

Cayré and Ramcharrun, 1991; Yano, 1991

**Bigeye tuna, <f=2>Thunnus obesus<f=1>, Pacific Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Anonymous, 1950a; Anonymous, 1954c; Anonymous, 1954h; Anonymous, 1955a; Anonymous, 1955b; Anonymous, 1955c; Anonymous, 1955d; Anonymous, 1955f; Anonymous, 1955j; Anonymous, 1955o; Anonymous, 1956e; Anonymous, 1956j; Anonymous, 1956o; Anonymous, 1956u; Anonymous, 1957c; Anonymous, 1957d; Anonymous, 1957h; Anonymous, 1963k; Anonymous, 1970a; Anonymous, 1972g; Anonymous, 1977h; Anonymous, 1977i; Anonymous, 1990c; Anonymous,

1991b; Anonymous, 1992b; Anonymous, 1992h; Arce and Barut, 1989; Gillett and Kearney, 1980; Graham, 1957; Ishida, 1989; Itano, 1991; Itano and Williams, 1992; Iversen and Yoshida, 1957; Kailola, 1978; Kearney, 1978b; Kearney, 1978c; Kearney, 1978d; Kearney, 1979; Kearney, 1980; Kearney, 1981; Kearney and Hallier, 1979b; Kearney and Hallier, 1980a; Kearney and Lewis, 1978; Lewis, 1991; Lewis, 1992a; Lewis, 1992b; Lewis and Hampton, 1992; Matthews and Deguara, 1992; Peterson, 1968; Peterson, 1973; Peterson, 1979; Peterson, 1980; Shiohama, 1990; Shomura and Otsu, 1956; Strasburg, 1969; Suda, 1966; Ward, 1987; Watkins, 1987; Yamanaka, 1966; Yonemori <f=2>et al.<f=1>, 1985

#### Growth

Alverson and Peterson, 1963; Anonymous, 1956f; Anonymous, 1956m; Anonymous, 1992j; Otsu and Uchida, 1956

#### Movements

Alverson and Peterson, 1963; Anonymous, 1956f; Anonymous, 1956m; Anonymous, 1957aa; Anonymous, 1992j; Bayliff, 1991a; Bayliff, 1992a; Bayliff, 1992b; Calkins, 1980a; Calkins, 1980b; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Kume, 1967; Otsu and Uchida, 1956; Shomura, 1988; Sund <f=2>et al.<f=1>, 1981

#### Sonic or archival tagging

Anonymous, 1981i; Anonymous, 1983l; Bushnell and Holland, 1989; Holland <f=2>et al.<f=1>, 1990b; Holland <f=2>et al.<f=1>, 1992; Hunter <f=2>et al.<f=1>, 1986; Pepperell and Holland, 1992; Suzuki, 1984; Suzuki, 1988; Suzuki and Kume, 1982; Tenneson, 1989

### **Northern bluefin tuna, <f=2>Thunnus thynnus<f=1>, Atlantic Ocean**

#### Brief mention

Akyüz, 1966; Akyüz, 1970; Aloncle, 1977; Aloncle, 1979; Aloncle, 1980a; Aloncle and Delaporte, 1970; Aloncle and Delaporte, 1971; Aloncle <f=2>et al.<f=1>, 1976; Aloncle <f=2>et al.<f=1>, 1978; Anonymous, 1954e; Anonymous, 1954m; Anonymous, 1959e; Anonymous, 1964b; Anonymous, 1964c; Anonymous, 1964k; Anonymous, 1969h; Anonymous, 1971a; Anonymous, 1972e; Anonymous, 1972f; Anonymous, 1974a; Anonymous, 1974c; Anonymous, 1976a; Anonymous, 1981g; Anonymous, 1982e; Anonymous, 1988f; Anonymous, 1988g; Beckett, 1968; Beckett, 1974b; Burnett <f=2>et al.<f=1>, 1977; Casey <f=2>et al.<f=1>, 1988; Cayré, 1986; Cendrero, 1973; Clay, 1986; Clay and Porter, 1992; Cort, 1986; Cort, 1987; Cort, 1989; Cort, 1990a; Cort and Cárdenas, 1978; Cort <f=2>et al.<f=1>, 1980; Cort and Rey, 1979; Cort <f=2>et al.<f=1>, 1981; Fridriksson, 1952; González-Gárce, 1979; González-Gárce, 1980; González-Gárce, 1981; González-Gárce, 1982; González-Gárce, 1983; González-Gárce, 1984; González-Gárce, 1985; González-Gárce, 1987; González-Gárce <f=2>et al.<f=1>, 1977; Hamou-Tahra and Brêthes, 1978; Hamre, 1960; Instituto Español de Oceanografía, 1992; Lenarz <f=2>et al.<f=1>, 1972; Letaconnoux, 1974; Letaconnoux, 1975; Mather, 1961; Mather, 1963a; Mejuto, 1984; Mejuto, 1985; Meyer-Waarden, 1959; National Marine Fisheries Service, 1979; National Marine Fisheries Service, 1980; National Marine Fisheries Service, 1981; National Marine Fisheries Service, 1988; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Oceanic and Atmospheric Administration, National Marine Fisheries Service, 1975; National Oceanic and Atmospheric Administration, National Marine Fisheries Service, 1976; National Oceanic and Atmospheric Administration, National Marine Fisheries Service, 1977; Rey, 1978; Rey and Cort, 1978; Rey and Cort, 1979; Rey and Cort, 1981a; Rey and Cort, 1981b; Rey and Cort, 1982; Rey and Cort, 1985; Rodríguez-Roda, 1966a; Sakagawa and Coan, 1974; de la Serna <f=2>et al.<f=1>, 1992; The Spanish Institute of Oceanography, 1991; Tibbo and Beckett, 1973; Tyler <f=2>et al.<f=1>, 1977; Tyler <f=2>et al.<f=1>, 1978; Wise <f=2>et al.<f=1>, 1971

#### Abundance

Porter and Hogans, 1991

#### Growth

Anonymous, 1960j; Anonymous, 1980f; Anonymous, 1987c; Beckett, 1970; Clay, 1991; Cort, 1990b; Cort and Rey, 1985; Farber and Lee, 1981; Fee, 1991; Hurley and Iles, 1982b; Lamboeuf, 1973; Lee and Prince, 1991; Mather, 1960; Mather, 1980a; Mather and Mason, 1973; Mather and Schuck, 1960; Miyake, 1990; Parrack and Phares, 1979; Scott <f=2>et al.<f=1>, 1990; Suzuki and Ishizuka, 1991; Tiews, 1963; Turner <f=2>et al.<f=1>, 1991

## Mortality

Anonymous, 1968f; Anonymous, 1975c; Anonymous, 1980f; Butler, 1971; Butler, 1982; Casey <f=2>et al.<f=1>, 1978; Clay, 1991; Cort and Rey, 1985; Doi <f=2>et al.<f=1>, 1985; Farber, 1980; Fee, 1991; Mason, 1975; Mather <f=2>et al.<f=1>, 1973; Mather, Rothschild, Paulik, and Lenarz, 1974; Mather and working party, 1972; Miyabe, 1983; Miyake, 1990; Powers <f=2>et al.<f=1>, 1983; Rodríguez-Roda, 1964b

## Movements

Allain and Aloncle, 1968; Aloncle, 1973; Aloncle and Delaporte, 1980; Anonymous, 1960b; Anonymous, 1960j; Anonymous, 1962b; Anonymous, 1962c; Anonymous, 1962d; Anonymous, 1962j; Anonymous, 1962k; Anonymous, 1963a; Anonymous, 1963d; Anonymous, 1963e; Anonymous, 1963j; Anonymous, 1967b; Anonymous, 1968f; Anonymous, 1969d; Anonymous, 1971c; Anonymous, 1974b; Anonymous, 1974d; Anonymous, 1974f; Anonymous, 1975c; Anonymous, 1976d; Anonymous, 1977c; Anonymous, 1979e; Anonymous, 1980f; Arena, 1960; Baglin <f=2>et al.<f=1>, 1978; Beardsley, 1985; Beckett, 1970; Brêthes, 1978; Brêthes, 1979; Brêthes and Mason, 1979; Brown and Parrack, 1985; Brunenmeister, 1980; Burnett <f=2>et al.<f=1>, 1979; Burnett and Iles, 1978; Bushnell and Holland, 1989; Butler, 1971; Butler, 1982; Caddy and Beckett, 1975; Caddy and Burnett, 1976; Carey <f=2>et al.<f=1>, 1971; Casey <f=2>et al.<f=1>, 1978; Clay, 1991; Cort, 1982a; Cort, 1982b; Cort, 1990b; Cort and Rey, 1981; Cort and Rey, 1983; Cort and Rey, 1985; Division of Pelagic Resources, Far Seas Fisheries Research Laboratory, 1980; Dwivedi, 1964; Farber and Chewing, 1980; Farrugio, 1980; Fee, 1991; Hamre, 1961; Hamre, 1962; Hamre, 1963a; Hamre, 1963b; Hamre, 1964; Hamre, 1965; Hayasi <f=2>et al.<f=1>, 1970; Heldt, 1927a; Heldt, 1927b; Heldt, 1929; Heldt, 1930; Heldt, 1931; Heldt, 1932; Heldt, 1934; Heldt, 1937; Heldt, 1938; Hunter <f=2>et al.<f=1>, 1986; Hurley, Burnett, and Dickson, 1979; Hurley and Iles, 1980; Hurley and Iles, 1982a; Hurley and Iles, 1982b; Hurley <f=2>et al.<f=1>, 1983; Iles and Burnett, 1977; Iles <f=2>et al.<f=1>, 1980; Iles <f=2>et al.<f=1>, 1981; Jakobsson, 1970; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Lamboeuf, 1973; Lamboeuf, 1975; Letaconnoux, 1971; Marr, 1963a; Mason, 1975; Mason <f=2>et al.<f=1>, 1977; Mather, 1960; Mather, 1962; Mather, 1963b; Mather, 1964; Mather, 1969; Mather, 1980b; Mather and Bartlett, 1962; Mather and Bartlett, 1966; Mather <f=2>et al.<f=1>, 1967; Mather and Mason, 1973; Mather and Mason, 1976; Mather, Mason, and Jones, 1974; Mather <f=2>et al.<f=1>, 1973; Mather, Rothschild, Paulik, and Lenarz, 1974; Mather and Schuck, 1960; Mather and working party, 1969; Mather and working party, 1972; Miyabe and Suzuki, 1989; Miyake, 1990; National Marine Fisheries Service, 1987; National Marine Fisheries Service, 1992; Nichols, 1980; Postel, 1970; Rey, 1978; Rey, 1983; Richards, 1988; Rivas, 1978; Rodríguez-Roda, 1959; Rodríguez-Roda, 1963; Rodríguez-Roda, 1964a; Rodríguez-Roda, 1964c; Rodríguez-Roda, 1969a; Rodríguez-Roda, 1971; Rodríguez-Roda, date unknown; Sarà, 1973; Scott <f=2>et al.<f=1>, 1990; Sella, 1926a; Sella, 1929; Sella, 1930; Suzuki and Ishizuka, 1991; Tesch, 1980; Tibbo and Beckett, 1971; Tiews, 1963; Tiews, 1964; Tyler <f=2>et al.<f=1>, 1979; Westman and Neville, 1942; Wilson, 1965

## Recruitment

Miyabe, 1983

## Schooling

Fee, 1991; Turner, 1986

## Shedding of tags

Anonymous, 1973b; Baglin <f=2>et al.<f=1>, 1980a; Baglin <f=2>et al.<f=1>, 1980b; Baglin <f=2>et al.<f=1>, 1978; Farber, 1980; Hurley, Dickson, and Iles, 1979; Hurley and Iles, 1980; Lenarz <f=2>et al.<f=1>, 1973a; Lenarz <f=2>et al.<f=1>, 1973b; Mather and Mason, 1976; Mather, Rothschild, Paulik, and Lenarz, 1974; National Marine Fisheries Service, 1974; Porter and Hogans, 1992; Tibbo and Beckett, 1974

## Sonic or archival tagging

Bass and Rascovich, 1965; Bayliff and Holland, 1986; Butler, 1978; Butler, 1982; Butler and Pincock, 1978; Caddy and Beckett, 1975; Carey, 1973; Carey <f=2>et al.<f=1>, 1984; Carey and Lawson, 1973; Carey <f=2>et al.<f=1>, 1971; Hunter <f=2>et al.<f=1>, 1986; Hurley, Dickson, and Iles, 1979; Kanwisher <f=2>et al.<f=1>, 1974; Porter and Hogans, 1992; Stevens <f=2>et al.<f=1>, 1978; Tibbo and Beckett, 1972

## Stock structure

Anonymous, 1974d; Anonymous, 1975c; Anonymous, 1976c; Anonymous, 1976d; Anonymous, 1977c; Anonymous, 1978d; Anonymous, 1979e; Anonymous, 1980f; Anonymous, 1987e; Brown and Parrack, 1985; Brunenmeister, 1980; Butler, 1982; Casey <f=2>et al.<f=1>, 1978; Clay, 1991; Cort and Rey, 1983; Hunter <f=2>et al.<f=1>, 1986; Mather, 1980b; Mather, Mason, and Jones, 1974; Mather and working party, 1972; Miyake, 1990; Rodríguez-Roda, date unknown; Suzuki and Ishizuka, 1991; Tiews, 1964

### **Northern bluefin tuna, <f=2>Thunnus thynnus<f=1>, Pacific Ocean**

#### **Brief mention**

Akyüz, 1970; Anonymous, 1953h; Anonymous, 1954k; Anonymous, 1954l; Anonymous, 1955s; Anonymous, 1962g; Anonymous, 1963i; Anonymous, 1964i; Anonymous, 1964k; Anonymous, 1972e; Bayliff and Holland, 1986; Iselin, 1963; Suda, 1966; Yamanaka and staff, 1963; Yamanaka, 1966

#### **Growth**

Anonymous, 1964f; Anonymous, 1964j; Anonymous, 1967a; Anonymous, 1968a; Bayliff, 1991a; Bayliff, 1991b; Bayliff <f=2>et al.<f=1>, 1991; Bayliff and Calkins, 1979; Orange and Fink, 1963; Peterson, 1982; Peterson, 1983; Peterson, 1985; Yamanaka, 1982; Yukinawa and Yabuta, 1967

#### **Interactions**

Bayliff, 1980a; Bayliff, 1980b; Bayliff, 1986; Bayliff, 1987; Bayliff, 1988a; Bayliff, 1989; Bayliff, 1991a; Bayliff, 1991b; Bayliff, 1992a; Bayliff, 1992b; Bayliff and Calkins, 1979; Peterson, 1980

#### **Mortality**

Bayliff, 1980a; Bayliff, 1980b; Bayliff <f=2>et al.<f=1>, 1991; Bayliff and Calkins, 1979; Hanan, 1983a; Peterson, 1980

#### **Movements**

Anonymous, 1956z; Anonymous, 1963e; Anonymous, 1963n; Anonymous, 1964f; Anonymous, 1964j; Anonymous, 1967a; Anonymous, 1968a; Anonymous, 1969a; Anonymous, 1980e; Anonymous, 1985a; Bayliff, 1980a; Bayliff, 1980b; Bayliff, 1983; Bayliff, 1986; Bayliff, 1987; Bayliff, 1988a; Bayliff, 1989; Bayliff, 1991a; Bayliff, 1991b; Bayliff, 1992a; Bayliff, 1992b; Bayliff <f=2>et al.<f=1>, 1991; Bayliff and Calkins, 1979; Bell, 1963; Brock, 1965; Chatwin and Orange, 1960; Clemens, 1966a; Clemens, 1966b; Clemens and Flittner, 1969; Clemens and Roedel, 1964; Flittner, 1966; Frey, 1971; Hanan, 1983a; Hanan, 1983b; Hunter <f=2>et al.<f=1>, 1986; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Landberg, 1966; Mather, 1969; Miyabe and Suzuki, 1989; Orange and Fink, 1963; Peterson, 1980; Peterson, 1981; Peterson, 1982; Peterson, 1983; Peterson, 1984; Shingu <f=2>et al.<f=1>, 1974; Shomura, 1988; Sund <f=2>et al.<f=1>, 1981; Tenneson, 1989; Yamanaka, 1982; Yukinawa and Yabuta, 1967

#### **Sonic or archival tagging**

Konogaya, 1977; Smith and Goodman, 1986

#### **Stock structure**

Anonymous, 1963e; Anonymous, 1969a; Anonymous, 1980e; Bayliff, 1983; Bayliff, 1986; Bayliff, 1987; Bayliff, 1988a; Bayliff, 1989; Bayliff, 1991a; Bayliff, 1991b; Bayliff, 1992a; Bayliff, 1992b; Bayliff <f=2>et al.<f=1>, 1991; Bayliff and Calkins, 1979; Clemens and Flittner, 1969; Hanan, 1983b; Hunter <f=2>et al.<f=1>, 1986; Joseph and working party, 1969; Orange and Fink, 1963; Peterson, 1980; Yamanaka, 1982

### **Longtail tuna, <f=2>Thunnus tonggol<f=1>, Indian Ocean**

#### **Brief mention**

Anonymous, 1991a; Shomura, 1992

### **Longtail tuna, <f=2>Thunnus tonggol<f=1>, Pacific Ocean**

#### **Brief mention**

Anonymous, 1977i; Anonymous, 1983d; Anonymous, 1987h; Anonymous, 1990c; Hassan, 1991; Kailola, 1978; Kearney, 1974; Lewis, 1992a; Lewis, 1992b; Lewis and Hampton, 1992; Matthews and Deguara, 1992; Pepperell, 1990b; Stevens and Church, 1984

### **Atlantic sailfish, <f=2>Istiophorus albicans<f=1>, Atlantic Ocean**

#### Brief mention

Anonymous, 1962a; Anonymous, 1963a; Anonymous, 1964b; Anonymous, 1976a; Beardsley, 1985; Casey <f=2>et al.<f=1>, 1988; Diouf, 1991; Lenarz <f=2>et al.<f=1>, 1972; Mather, 1963a; Miyake, 1990; National Marine Fisheries Service, 1985; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; Prince, 1991

#### Growth

Boggs, 1989; Conser, 1984; Mather, Tabb, Mason, and Clark, 1974; Prince <f=2>et al.<f=1>, 1986; Scott <f=2>et al.<f=1>, 1990

#### Interactions

Mather, Tabb, Mason, and Clark, 1974

#### Mortality

Beardsley <f=2>et al.<f=1>, 1975; Boggs, 1989; Conser, 1984; de Sylva, 1957; Jolley and Irby, 1979; Mather <f=2>et al.<f=1>, 1976; Mather, Tabb, Mason, and Clark, 1974;

#### Movements

Anonymous, 1960j; Anonymous, 1969d; Anonymous, 1977c; Anonymous, 1978d; Beardsley <f=2>et al.<f=1>, 1975; Buchanan <f=2>et al.<f=1>, 1978; Capisano, 1989; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mason and Buchanan, 1979; Mather, 1960; Mather, 1963b; Mather and Bartlett, 1966; Mather and Mason, 1973; Mather <f=2>et al.<f=1>, 1976; Mather, Tabb, Mason and Clark, 1974; Mather and working party, 1972; Scott <f=2>et al.<f=1>, 1991

#### Sonic or archival tagging

Jolley and Irby, 1979; Pepperell and Holland, 1992

#### Stock structure

Mather, Tabb, Mason, and Clark, 1974

### **Indo-Pacific sailfish, <f=2>Istiophorus platypterus<f=1>, Pacific Ocean**

#### Brief mention

Anonymous, 1956e; Anonymous, 1960j; Anonymous, 1964b; Anonymous, 1992l; Gottschalk, 1972; Mather, 1963a; Mather and Bartlett, 1966; Matthews and Deguara, 1992; Pepperell, 1990b; Pepperell, 1992b; Strasburg, 1970

#### Growth

Anonymous, 1990b; Speare and Williams, 1992

#### Movements

Beardsley <f=2>et al.<f=1>, 1975; Squire, 1974; Strasburg, 1969

### **Black marlin, <f=2>Makaira indica<f=1>, Pacific Ocean**

#### Brief mention

Anonymous, 1964b; Anonymous, 1977b; Gottschalk, 1972; Mather, 1963b; Matthews and Deguara, 1992; Pepperell, 1990b; Pepperell, 1992a; Pepperell, 1992b; Strasburg, 1969; Watkins, 1987

#### Growth

Anonymous, 1990b; Speare and Williams, 1992; Squire and Neilson, 1983

#### Movements

Anonymous, 1983a; Anonymous, 1992k; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Pepperell, 1985; Pepperell, 1990a; Shomura, 1988; Squire, 1974; Squire and Neilson, 1983; Strasburg, 1970

#### Stock structure

Pepperell, 1985

### **Indo-Pacific blue marlin, <f=2>Makaira mazara<f=1>, Pacific Ocean**



#### Brief mention

Gottschalk, 1972; Matthews and Deguara, 1992; Strasburg, 1969

#### Movements

Joseph <f=2>et al.<f=1>, 1988; Sakagawa, 1988; Squire, 1974

#### Sonic or archival tagging

Block <f=2>et al.<f=1>, 1992a; Block <f=2>et al.<f=1>, 1992b; Holland <f=2>et al.<f=1>, 1985; Holland <f=2>et al.<f=1>, 1990a; Naughton, 1973; Pepperell and Holland, 1992; Rivas, 1975; Yuen <f=2>et al.<f=1>, 1974

#### Stock structure

Sakagawa, 1988; Skillman, 1989

### **Atlantic blue marlin, <f=2>Makaira nigricans<f=1>, Atlantic Ocean**

#### Brief mention

Anonymous, 1963a; Anonymous, 1964b; Anonymous, 1966a; Anonymous, 1969d; Casey <f=2>et al.<f=1>, 1988; Mather, 1963b; Mather and Bartlett, 1966; Miyake, 1990; National Marine Fisheries Service, 1986; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; Prince, 1991

#### Growth

Mather, Mason, and Clark, 1974

#### Movements

Amon Kothias and Bard, 1985; Anonymous, 1978d; Beardsley, 1985; Buchanan <f=2>et al.<f=1>, 1978; Casey <f=2>et al.<f=1>, 1978; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mason and Buchanan, 1979; Mather <f=2>et al.<f=1>, 1972; Mather <f=2>et al.<f=1>, 1976; Mather, Mason, and Clark, 1974; Mather and working party, 1972; National Marine Fisheries Service, 1985; National Marine Fisheries Service, 1987; Richards, 1988; Rivas, 1975; Sakagawa, 1988; Scott <f=2>et al.<f=1>, 1990; Witzell and Scott, 1990

#### Stock structure

Mather, Mason, and Clark, 1974; Sakagawa, 1988; Skillman, 1989

### **White marlin, <f=2>Tetrapturus albidus<f=1>, Atlantic Ocean**

#### Brief mention

Anonymous, 1963a; Anonymous, 1964b; Anonymous, 1965a; Anonymous, 1965b; Burnett <f=2>et al.<f=1>, 1977; Casey <f=2>et al.<f=1>, 1988; Earle, 1940; Lenarz <f=2>et al.<f=1>, 1972; Mather, 1963a; Mather, 1963b; Miyake, 1990; National Marine Fisheries Service, 1988; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; Prince, 1991; Wise <f=2>et al.<f=1>, 1971

#### Growth

Mather, Mason, and Clark, 1974; Scott <f=2>et al.<f=1>, 1990

#### Mortality

Anonymous, 1972c; Casey <f=2>et al.<f=1>, 1978; Mather, 1960; Mather <f=2>et al.<f=1>, 1972; Mather and Mason, 1973; Mather <f=2>et al.<f=1>, 1972; Mather <f=2>et al.<f=1>, 1976; Mather, Mason, and Clark, 1974; Mather and working party, 1972

#### Movements

Anonymous, 1960j; Anonymous, 1969d; Anonymous, 1972c; Anonymous, 1972f; Anonymous, 1974b; Anonymous, 1977c; Anonymous, 1978d; Anonymous, 1983a; Beardsley, 1985; Buchanan <f=2>et al.<f=1>, 1978; Casey <f=2>et al.<f=1>, 1978; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mason and Buchanan, 1979; Mather, 1960; Mather, 1967; Mather, 1969; Mather and Bartlett, 1966; Mather <f=2>et al.<f=1>, 1975; Mather <f=2>et al.<f=1>, 1972; Mather and Mason, 1973; Mather <f=2>et al.<f=1>, 1976; Mather, Mason, and Clark, 1974; Mather and working party, 1972; Richards, 1988; Scott <f=2>et al.<f=1>, 1991; Shomura, 1988

#### Stock structure

Anonymous, 1974b; Mather, 1967; Mather <f=2>et al.<f=1>, 1975; Mather <f=2>et al.<f=1>, 1972; Mather <f=2>et al.<f=1>, 1976; Mather, Mason, and Clark, 1974

**Shortbill spearfish, <f=2>Tetrapturus angustirostris<f=1>, Pacific Ocean**

Brief mention

Strasburg, 1969

**Striped marlin, <f=2>Tetrapturus audax<f=1>, Pacific Ocean**

Brief mention

Anonymous, 1964b; Mather, 1963b; Matthews and Deguara, 1992; Saul, 1977

Effects of tagging

Holts and Bedford, 1990

Growth

Anonymous, 1985a

Interactions

Squire and Au, 1990; Squire and Suzuki, 1990

Movements

Anonymous, 1969d; Anonymous, 1985a; Beardsley, 1985; Clemens, 1966b; Gottschalk, 1972; Howard and Ueyanagi, 1965; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mather, 1969; Mather and Bartlett, 1986; Shomura, 1988; Squire, 1974; Squire, 1987; Squire and Au, 1990; Squire and Suzuki, 1990; Strasburg, 1969; Strasburg, 1967; Ueyanagi and Wares, 1975

Sonic or archival tagging

Holts and Bedford, 1990; Pepperell and Holland, 1992

**Longbill spearfish, <f=2>Tetrapturus pfluegeri<f=1>, Atlantic Ocean**

Brief mention

Casey <f=2>et al.<f=1>, 1988

**Swordfish, <f=2>Xiphias gladius<f=1>, Atlantic Ocean**

Brief mention

Anonymous, 1966b; Burnett <f=2>et al.<f=1>, 1977; Caddy and Burnett, 1977; Casey <f=2>et al.<f=1>, 1988; Cayré, 1986; González-Garcés, 1982; González-Garcés, 1985; González-Garcés, 1987; Hurlbert <f=2>et al.<f=1>, 1985; Mather, 1963b; Mather and Bartlett, 1966; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; de la Serna, 1992; Tibbo and Beckett, 1973

Growth

Beckett, 1970; Beckett, 1974a; Boggs, 1989; Hurley <f=2>et al.<f=1>, 1983; Iles <f=2>et al.<f=1>, 1981; Palko <f=2>et al.<f=1>, 1981; Restrepo, 1990; Scott <f=2>et al.<f=1>, 1990; Southeast Fisheries Center, 1987; Tibbo and Beckett, 1971

Interactions

Berkeley, 1983; Berkeley, 1989; Farber, 1988; Miyake and Rey, 1989

Movements

Anonymous, 1969c; Beckett, 1979; Beckett, 1974a; Berkeley, 1983; Berkeley, 1989; Burnett and Iles, 1978; Casey <f=2>et al.<f=1>, 1978; Farber, 1988; Hurley, Burnett, and Dickson, 1979; Hurley and Iles, 1980; Hurley and Iles, 1982a; Iles and Burnett, 1977; Iles <f=2>et al.<f=1>, 1980; Iles <f=2>et al.<f=1>, 1981; Mather <f=2>et al.<f=1>, 1976; Mather and working party, 1972; Mejuto, 1991; Miyake and Rey, 1989; Palko <f=2>et al.<f=1>, 1981; Scott <f=2>et al.<f=1>, 1990; Tibbo and Beckett, 1972; Tibbo and Beckett, 1974

Sonic or archival tagging

Bayliff and Holland, 1986; Carey, 1990; Carey and Robison, 1981; Palko <f=2>et al.<f=1>, 1981

## Stock structure

Berkeley, 1983; Berkeley, 1989; Farber, 1988; Mejuto and Hoey, 1991; Miyake and Rey, 1989

### **Swordfish, <f=2>Xiphias gladius<f=1>, Indian Ocean**

## Brief mention

Takahashi <f=2>et al.<f=1>, 1988

### **Swordfish, <f=2>Xiphias gladius<f=1>, Pacific Ocean**

## Brief mention

Matthews and Deguara, 1992; Murray, 1990; Watkins, 1987

## Movements

Anonymous, 1992n

## Sonic or archival tagging

Bayliff and Holland, 1986; Carey, 1983; Carey and Robison, 1981; Holland <f=2>et al.<f=1>, 1985; Palko <f=2>et al.<f=1>, 1981; Pepperell and Holland, 1992

## **Materials and Methods**

## Conventional tags

### Tagging and handling

Akyüz, 1966; Akyüz, 1970; Allain, 1967; Aloncle and Delaporte, 1973b; Aloncle and Delaporte, 1974b; Aloncle <f=2>et al.<f=1>, 1972; Alverson and Chenoweth, 1951; Alverson and Chatwin, 1964; Anonymous, 1933; Anonymous, 1950a; Anonymous, 1950b; Anonymous, 1950c; Anonymous, 1950d; Anonymous, 1950e; Anonymous, 1952a; Anonymous, 1953d; Anonymous, 1953e; Anonymous, 1953f; Anonymous, 1953h; Anonymous, 1954e; Anonymous, 1954h; Anonymous, 1954i; Anonymous, 1954j; Anonymous, 1954m; Anonymous, 1955b; Anonymous, 1955c; Anonymous, 1955k; Anonymous, 1955l; Anonymous, 1955v; Anonymous, 1956a; Anonymous, 1956s; Anonymous, 1956v; Anonymous, 1956x; Anonymous, 1956z; Anonymous, 1956aa; Anonymous, 1957a; Anonymous, 1957c; Anonymous, 1957e; Anonymous, 1957g; Anonymous, 1957h; Anonymous, 1957j; Anonymous, 1957k; Anonymous, 1957o; Anonymous, 1957r; Anonymous, 1957s; Anonymous, 1957t; Anonymous, 1957bb; Anonymous, 1958e; Anonymous, 1958h; Anonymous, 1958j; Anonymous, 1958k; Anonymous, 1958l; Anonymous, 1958s; Anonymous, 1958t; Anonymous, 1958w; Anonymous, 1959g; Anonymous, 1959k; Anonymous, 1960f; Anonymous, 1960h; Anonymous, 1962o; Anonymous, 1963b; Anonymous, 1963h; Anonymous, 1963l; Anonymous, 1964c; Anonymous, 1966c; Anonymous, 1971b; Anonymous, 1971c; Anonymous, 1972f; Anonymous, 1973b; Anonymous, 1977h; Anonymous, 1983b; Anonymous, 1987g; Anonymous, 1988d; Anonymous, 1990b; Anonymous, 1991a; Anonymous, 1992d; Asano, 1991; Baglin <f=2>et al.<f=1>, 1978; Bailey, 1987b; Bard, 1984b; Barrett and Conner, 1962; Barrett and Conner, 1964; Barut and Arce, 1991; Bayliff, 1973; Bayliff and Holland, 1986; Beckett, 1968; Beckett, 1970; Beckett, 1974b; Blunt and Messersmith, 1960; Broadhead, 1959; Burnett <f=2>et al.<f=1>, 1977; Caton, 1991; Clay, 1991; Clemens, 1961; Clemens, 1966a; Clemens and Roedel, 1964; Cort, 1990b; Earle, 1940; Fink, 1965a; Fink, 1965b; Fink and Bayliff, 1970; Foreman, 1987; Godsil, 1936; Godsil, 1938; Habib <f=2>et al.<f=1>, 1979; Hall, 1992; Hampton, 1986; Hampton, 1991b; Hampton and Kirkwood, 1990; Hamre, 1960; Hamre, 1961; Hamre, 1963b; Hassan, 1991; Heldt, 1932; Heldt, 1934; Heldt, 1938; Hue, 1980; Hurley, Burnett, and Dickson, 1979; Hurley, Dickson, and Iles, 1979; Hurley and Iles, 1980; Hurley <f=2>et al.<f=1>, 1983; Hynd, 1969; Hynd <f=2>et al.<f=1>, 1967; Ichikawa, 1981; Ishida, 1989; Itano, 1991; Itano, 1992; Iversen and Yoshida, 1957; Jakobsson, 1970; Kailola, 1978; Kasahara <f=2>et al.<f=1>, 1971; Kask, 1966; Kawasaki, 1965; Kearney, 1974; Kearney, 1977b; Kearney, 1983; Kearney, 1992; Kearney and Gillett, 1982; Kearney and Hallier, 1978a; Kearney and Hallier, 1980a; Kearney and Lewis, 1978; Kearney, Lewis, and Smith, 1972; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kume, 1981b; Laurs <f=2>et al.<f=1>, 1976; Laurs and Wetherall, 1981; Lenarz <f=2>et al.<f=1>, 1972; Lenarz <f=2>et al.<f=1>, 1973b; Letaconnoux, 1963; Letaconnoux, 1971; Lewis, 1977b; Lewis, 1980a; Lewis, 1980b; Lewis, 1989; Lewis, 1991; Lewis <f=2>et al.<f=1>, no date; Lucas, 1974; Majkowski, 1982a; Majkowski

and Murphy, 1983; Marr, 1963a; Marr, 1963b; Mason <f=2>et al.<f=1>, 1977; Mather, 1960; Mather, 1963a; Mather and Mason, 1973; Mather and Mason, 1976; Mather <f=2>et al.<f=1>, 1976; Mather, Tabb, Mason, and Clark, 1974; Mather and working party, 1969; Mather and working party, 1972; Matthews and Deguara, 1992; McFarlane <f=2>et al.<f=1>, 1990; Meyer-Waarden, 1959; Miyake, 1990; Murray, 1990; Naamin, 1991; Nakamura, 1987; National Marine Fisheries Service, 1974; Otsu, 1970; Partlo, 1951; Pepperell, 1985; Pepperell, 1990a; Pepperell, 1990b; Pepperell, 1992a; Pepperell, 1992b; Peterson, 1970; Peterson, 1971; Peterson, 1973; Porter and Hogans, 1992; Powell, 1950; Powell <f=2>et al.<f=1>, 1952; Rey, 1978; Rey and Cort, 1979; Rinaldo, Evans, and Vergne, 1981; Robins, 1960; Rochepeau, 1991b; Rodríguez-Roda, 1959; Rodríguez-Roda, 1963; Rodríguez-Roda, 1964a; Rodríguez-Roda, 1964b; Rodríguez-Roda, 1964c; Rodríguez-Roda, 1966a; Santos Guerra and Torres Nuñez, 1981; Santos and Torres, 1983; Scagel, 1949; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1959; Schaefer, 1961; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, 1952; Scott <f=2>et al.<f=1>, 1990; de la Serna, 1992; Shiohama, 1990; Shomura, 1987; Sitan, 1989b; Speare and Williams, 1992; Squire, 1974; Squire, 1987; Squire and Neilson, 1983; Thomson, 1962; Tibbo and Beckett, 1972; Tibbo and Beckett, 1974; Van Campen and Murphy, 1957; Waheed, 1991; Westman and Neville, 1942; Whitelaw and Hearn, 1991; Whitelaw <f=2>et al.<f=1>, 1992; Williams, 1980; Williams, 1983; Williams, 1992; Williams and Diplock, 1989; Wilson, 1953; Yamashita and Waldron, 1958; Yamashita and Waldron, 1959; Yano, 1991; Yonemori <f=2>et al.<f=1>, 1985; Yesaki and Waheed, 1991; Yesaki and Waheed, 1992

#### Recovering the tags

Aloncle and Delaporte, 1970; Aloncle and Delaporte, 1974a; Anonymous, 1953a; Anonymous, 1963m; Anonymous, 1964k; Anonymous, 1972f; Anonymous, 1973a; Anonymous, 1974a; Anonymous, 1976c; Anonymous, 1977g; Anonymous, 1978d; Anonymous, 1982c; Anonymous, 1983d; Anonymous, 1983e; Anonymous, 1986c; Anonymous, 1986n; Anonymous, 1988a; Anonymous, 1988d; Anonymous, 1991a; Anonymous, 1992o; Ariz <f=2>et al.<f=1>, 1991; Bailey, 1987b; Bard, 1984b; Bard <f=2>et al.<f=1>, 1983; Barut and Arce, 1991; Bayliff and Holland, 1986; Beardsell, 1987; Blunt and Messersmith, 1960; Broadhead, 1959; Caton, 1987; Caton, 1991; Clemens, 1961; Clemens and Roedel, 1964; Cort, 1990b; Eckert and Majkowski, 1987; Godsil, 1938; Habib, Clement, Iwasa, Swanson, and Bailey, 1982; Habib <f=2>et al.<f=1>, 1981; Hearn, 1989; Hearn and Majkowski, 1987a; Hilborn, 1988; Iselin, 1963; Ishida, 1989; Itano, 1992; Kearney, 1983; Kearney, 1992; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Chivers, and Weber, 1984; Labelle, 1992; Lenarz and Zweifel, 1979; Lewis, 1977b; Lewis, 1980b; Lewis, 1989; Lewis, 1991; Majkowski, 1982a; Majkowski <f=2>et al.<f=1>, 1984; Majkowski <f=2>et al.<f=1>, 1988; Mather, 1963a; Mather and working party, 1972; Miyake, 1990; Miyake and Symons, 1983; Murray, 1987; Naamin, 1991; Otsu, 1970; Pepperell, 1992b; Rodríguez-Roda, 1964c; Schaefer, 1958; Schaefer, 1962; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963; Scott <f=2>et al.<f=1>, 1990; Shiohama, 1990; Shomura, 1987; Sitan, 1989b; Watkins, 1987; Whitelaw and Hearn, 1991; Whitelaw <f=2>et al.<f=1>, 1992; Williams, 1980; Yamaguchi and Kikawa, 1982; Yamashita and Waldron, 1959; Yonemori <f=2>et al.<f=1>, 1985

#### Handling the recapture data

Bayliff and Holland, 1986; Caton, 1991; Clay, 1991; Honma and Yonemori, 1985; Kleiber and Maynard, 1982; Lewis, 1989; Majkowski, 1982a; Miyake, 1990; Miyake and Symons, 1983; Rochepeau, 1991b; Scott <f=2>et al.<f=1>, 1990; Sitan, 1989b

#### Sonic or archival tagging

Anonymous, 1968c; Anonymous, 1983l; Bass and Rascovich, 1965; Bayliff and Holland, 1986; Brill <f=2>et al.<f=1>, 1984; Butler and Pincock, 1978; Carey <f=2>et al.<f=1>, 1984; Carey and Lawson, 1973; Carey and Olson, 1982; Carey and Robison, 1981; Cayré, 1991a; Cayré, 1991b; Cayré and Chabanne, 1986; Cayré, Chabanne, Moarii, and Ugolini, 1986; Davis and Gunn, 1992a; Davis and Gunn, 1992b; Holland <f=2>et al.<f=1>, 1985; Holland <f=2>et al.<f=1>, 1990b; Jolley and Irby, 1979; Kanwisher <f=2>et al.<f=1>, 1974; Laurs <f=2>et al.<f=1>, 1977; Porter and Hogans, 1992; Yuen, 1970; Yuen <f=2>et al.<f=1>, 1974

### **Design of tagging experiments**

Hampton, 1989a; Wetherall and Yong, 1981

**Wahoo, <f=2>Acanthocybium solandri<f=1>, Atlantic Ocean**

Brief mention

Burnett <f=2>et al.<f=1>, 1977

**Wahoo, <f=2>Acanthocybium solandri<f=1>, Pacific Ocean**

Brief mention

Strasburg, 1969; Uchiyama, 1980

**Bullet or frigate tuna, <f=2>Auxis<f=1> sp., Atlantic Ocean**

Brief mention

Beckett, 1970; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1983; Cayré, 1986; Cayré, 1987; Cendrero, 1973; Diouf, 1986; Rey and Cort, 1979; Rey and Cort, 1981a; Rey and Cort, 1981b

Movements

Bard <f=2>et al.<f=1>, 1988

**Bullet or frigate tuna, <f=2>Auxis<f=1> sp., Indian Ocean**

Brief mention

Anonymous, 1988d

**Bullet or frigate tuna, <f=2>Auxis<f=1> sp., Pacific Ocean**

Brief mention

Anonymous, 1952a; Gillett and Kearney, 1980; Kearney, 1981

Movements

Hamada <f=2>et al.<f=1>, 1973; Hamada <f=2>et al.<f=1>, 1974; Morita, 1972; Uchida, 1980; Uchida, 1981; Yamashige, 1974

**Kawakawa, <f=2>Euthynnus affinis<f=1>, Indian Ocean**

Brief mention

Anonymous, 1988d

**Kawakawa, <f=2>Euthynnus affinis<f=1>, Pacific Ocean**

Brief mention

Anonymous, 1955h; Anonymous, 1955j; Anonymous, 1958b; Anonymous, 1968c; Anonymous, 1990c; Anonymous, 1991a; Iversen and Yoshida, 1957; Kearney, 1979; Kearney, 1980; Kearney, 1981; Kearney and Gillett, 1978a; Kearney and Gillett, 1979b; Kearney and Hallier, 1979b; Matthews and Deguara, 1992; Pepperell, 1990b; Uchiyama, 1980

Growth

Hassan, 1991

Movements

Hassan, 1991

Sonic or archival tagging

Anonymous, 1968b; Anonymous, 1968c; Anonymous, 1968d

**Spotted tunny, <f=2>Euthynnus alletteratus<f=1>, Atlantic Ocean**

Brief mention

Akyüz, 1970; Anonymous, 1974f; Anonymous, 1986q; Anonymous, 1988e; Bard, Mensah, and Vendeville, 1987; Beckett, 1970; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1983; Cayré, 1986; Cayré, 1987; Diouf, 1986; Diouf, 1988; González-Garcés, 1981; Mather, 1963b; Miyake, 1990; Nakamura, 1987; Rey and Cort, 1979; Rinaldo <f=2>et al.<f=1>, 1981

Growth

Diouf, 1983

Movements

Bard <f=2>et al.<f=1>, 1988; Diouf, 1983; Rey and Cort, 1981a; Rey and Cort, 1981b

**Black skipjack tuna, <f=2>Euthynnus lineatus<f=1>, Pacific Ocean**

Brief mention

Anonymous, 1952a; Anonymous, 1953c; Anonymous, 1956s; Peterson, 1976; Peterson, 1981; Peterson, 1982

Growth

Peterson, 1983

Movements

Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Muhlia-Melo, 1980a; Muhlia-Melo, 1980b; Peterson, 1980; Peterson, 1983

**Shark mackerel, <f=2>Grammatorcynus bicarinatus<f=1>, Pacific Ocean**

Brief mention

Matthews and Deguara, 1992

**Dogtooth tuna, <f=2>Gymnosarda unicolor<f=1>, Pacific Ocean**

Brief mention

Matthews and Deguara, 1992

**Skipjack tuna, <f=2>Katsuwonus pelamis<f=1>, Atlantic Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Allain and Aloncle, 1968; Aloncle and Delaporte, 1970; Aloncle and Delaporte, 1971; Aloncle and Delaporte, 1974b; Amon Kothias and Bard, 1983; Anonymous, 1964k; Anonymous, 1974f; Anonymous, 1979f; Anonymous, 1979g; Anonymous, 1981g; Anonymous, 1981h; Anonymous, 1982f; Anonymous, 1982g; Anonymous, 1983g; Anonymous, 1983h; Anonymous, 1986h; Anonymous, 1986i; Anonymous, 1986j; Anonymous, 1986l; Anonymous, 1986m; Anonymous, 1986n; Anonymous, 1986o; Anonymous, 1986p; Anonymous, 1986q; Anonymous, 1986r; Anonymous, 1986s; Anonymous, 1986t; Anonymous, 1988e; Anonymous, 1988f; Anonymous, 1988h; Bard, Mensah, and Vendeville, 1987; Beckett, 1970; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1981; Cayré, 1983; Cayré <f=2>et al.<f=1>, 1974; Cort, 1987; Cort, 1990a; Delgado de Molina and Santana, 1987; Delgado de Molina <f=2>et al.<f=1>, 1991; Far Seas Fisheries Research Laboratory, 1982; García Morena and Rodríguez Rodríguez, 1983; González-Garcés, 1981; González-Garcés, 1982; González-Garcés, 1983; González-Garcés, 1985; González-Garcés, 1986; González-Garcés, 1987; Guerault, 1981; Guzmán, 1989; Instituto Español de Oceanografía, 1992; Koffi <f=2>et al.<f=1>, 1982; Kume, 1981a; Kume, 1981b; Kume, 1982; Kume, 1983; Lamboeuf, 1973; Letaconnoux, 1971; Letaconnoux, 1972; Letaconnoux, 1973; Letaconnoux, 1974; Mather, 1963b; Mather and Mason, 1973; Mather and working party, 1969; National Marine Fisheries Service, 1974; National Marine Fisheries Service, 1981; National Marine Fisheries Service, 1982; Negreiros Aragão, 1978; Negreiros Aragão, 1979; Pianet, 1984; Rinaldo and Vergne, 1981; Sakagawa, 1986; Santa Rita de Viera, 1982; Santa Rita de Viera <f=2>et al.<f=1>, 1983; Symons, 1981; The Spanish Institute of Oceanography, 1991; Tibbo and Beckett, 1971; Zavala Camin, 1982

Growth

Anonymous, 1977c; Anonymous, 1986f; Antoine and Mendoza, 1986; Bard, 1984b; Bard and Amon Kothias, 1986b; Bard and Antoine, 1986; Cayré <f=2>et al.<f=1>, 1988; Cayré, Diouf, Fonteneau, and Santa-Rita Viera, 1986; Cayré, Fonteneau, and Diouf, 1986; Fonteneau, 1973; Gong and Lee, 1983; Miyake, 1990; Pianet, 1983; Santos Guerra and Torrez Nuñez, 1981; Santos and Torres, 1983

#### Mortality

Anonymous, 1986f; Bard, 1984b; Bard, 1986; Bard <f=2>et al.<f=1>, 1983; Cayré, Diouf, Fonteneau, and Santa-Rita de Viera, 1986; Fonteneau, 1973; Hunter <f=2>et al.<f=1>, 1986; Kleiber, Chivers, and Weber, 1984; Miyake, 1990; Pianet, 1983

#### Movements

Amon Kothias and Bard, 1985; Anonymous, 1976f; Anonymous, 1977c; Anonymous, 1986f; Antoine and Mendoza, 1986; Bard, 1984b; Bard, 1986; Bard and Amon Kothias, 1986b; Bard and Antoine, 1986; Bard <f=2>et al.<f=1>, 1988; Bard <f=2>et al.<f=1>, 1983; Cayré, Diouf, Fonteneau, and Santa-Rita de Viera, 1986; Cayré, Fonteneau, and Diouf, 1986; Delgado Molina <f=2>et al.<f=1>, 1987; Fonteneau, 1973; Gong and Lee, 1983; Hunter <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mather and Bartlett, 1966; Mather and working party, 1972; Miyabe and Bard, 1986; Miyake, 1990; Pianet, 1983; Santana <f=2>et al.<f=1>, 1990; Santos Guerra, 1986; Santos Guerra and García-Ramos, 1985; Santos Guerra and García-Ramos, 1986; Santos Guerra and Torres Nuñez, 1981; Santos Guerra and Torres Nuñez, 1982; Santos and Torres, 1983; Shomura, 1988; Suárez Caabro and Duarte Bello, 1961; Vialov and Ovchinnikov, 1986; Yamaguchi and Kikawa, 1982

#### Schooling

Cayré, 1982b; Cayré, 1984

#### Shedding of tags

Bard, 1986; Kleiber, Chivers, and Weber, 1984

#### Sonic or archival tagging

Anonymous, 1982d; Anonymous, 1982e; Anonymous, 1983f; Anonymous, 1986g; Anonymous, 1986k; Bard and Pincock, 1982; Cayré, 1982b; Cayré, 1984; Hunter <f=2>et al.<f=1>, 1986; Lévenez, 1982; Miyake, 1990

#### Stock structure

Anonymous, 1977c; Anonymous, 1986f; Bard and Amon Kothias, 1986b; Bard <f=2>et al.<f=1>, 1988; Cayré, Fonteneau, and Diouf, 1986; Fonteneau, 1973; Miyabe and Bard, 1986; Miyake, 1990

### **Skipjack tuna, <f=2>Katsuwonus pelamis<f=1>, Indian Ocean**

#### Brief mention

Anonymous, 1987h; Anonymous, 1988d; Anonymous, 1990d; Anonymous, 1991a; Anonymous, 1991c; Shomura, 1987; Takahashi <f=2>et al.<f=1>, 1988; Waheed, 1991; Yesaki and Waheed, 1991

#### Growth

Anonymous, 1990c; Cayré and Ramcharrun, 1991; Rochepeau, 1991a; Yesaki and Waheed, 1992

#### Movements

Anonymous, 1990c; Cayré, 1991a; Cayré and Ramcharrun, 1991; Rochepeau, 1991b; Yano, 1991; Yeesaki and Waheed, 1992

#### Sonic or archival tagging

Association Thonière-Commission de l'Océan Indien, 1991; Cayré, 1991a; Cayré, 1991b

### **Skipjack tuna, <f=2>Katsuwonus pelamis<f=1>, Pacific Ocean**

#### Brief mention

Akyüz, 1966; Akyüz, 1970; Anonymous, 1950a; Anonymous, 1950c; Anonymous, 1950e; Anonymous, 1953a; Anonymous, 1953b; Anonymous, 1953c; Anonymous, 1953d; Anonymous, 1953e; Anonymous, 1953f; Anonymous, 1953g; Anonymous, 1953h; Anonymous, 1954d; Anonymous, 1954g; Anonymous, 1954h; Anonymous, 1954i; Anonymous, 1954j; Anonymous, 1954k; Anonymous, 1954l; Anonymous, 1955b; Anonymous, 1955c; Anonymous, 1955e; Anonymous, 1955f; Anonymous, 1955g; Anonymous, 1955h; Anonymous, 1955i; Anonymous, 1955k; Anonymous, 1955n; Anonymous, 1955t; Anonymous, 1956i; Anonymous, 1956j; Anonymous, 1956q; Anonymous, 1956r; Anonymous, 1956s; Anonymous,

1956t; Anonymous, 1956w; Anonymous, 1956x; Anonymous, 1956aa; Anonymous, 1957a; Anonymous, 1957d; Anonymous, 1957e; Anonymous, 1957g; Anonymous, 1957h; Anonymous, 1957i; Anonymous, 1957k; Anonymous, 1957q; Anonymous, 1957r; Anonymous, 1957v; Anonymous, 1957z; Anonymous, 1957bb; Anonymous, 1958b; Anonymous, 1958c; Anonymous, 1958d; Anonymous, 1958f; Anonymous, 1958j; Anonymous, 1958l; Anonymous, 1958p; Anonymous, 1958q; Anonymous, 1958t; Anonymous, 1958w; Anonymous, 1959f; Anonymous, 1959g; Anonymous, 1959h; Anonymous, 1960d; Anonymous, 1961b; Anonymous, 1963k; Anonymous, 1964k; Anonymous, 1970a; Anonymous, 1971b; Anonymous, 1972d; Anonymous, 1972e; Anonymous, 1972g; Anonymous, 1977g; Anonymous, 1977h; Anonymous, 1977i; Anonymous, 1978a; Anonymous, 1978b; Anonymous, 1978c; Anonymous, 1978f; Anonymous, 1979b; Anonymous, 1979h; Anonymous, 1980a; Anonymous, 1980b; Anonymous, 1980h; Anonymous, 1981e; Anonymous, 1986c; Anonymous, 1986e; Anonymous, 1987h; Anonymous, 1990c; Anonymous, 1992b; Anonymous, 1992h; Arce and Barut, 1989; Barut and Arce, 1991; Bayliff, 1973; Bayliff and Holland, 1986; Bayliff and Hunt, 1981; Beckett, 1970; Broadhead, 1959; Fink, 1965b; Gillett and Kearney, 1980; Godsil, 1936; Godsil, 1938; Habib and Carey, 1981; Habib, Clement, Iwasa, Swanson, and Bailey, 1982; Hallier and Kearney, 1980; Hida, 1970a; Hida, 1970b; Hilborn, 1988; Ichikawa, 1981; Ishida, 1989; Itano, 1991; Itano, 1992; Itano and Williams, 1992; Iversen and Yoshida, 1957; Iwasa and Mizuno, 1979; Jakobsson, 1970; Joseph, 1981; Kailola, 1978; Kearney, 1974; Kearney, 1977b; Kearney, 1978b; Kearney, 1978c; Kearney and Argue, 1980; Kearney and Gillett, 1978a; Kearney and Gillett, 1978b; Kearney and Gillett, 1979a; Kearney and Gillett, 1979b; Kearney and Gillett, 1980; Kearney and Gillett, 1982; Kearney, Gillett, and Hallier, 1979; Kearney, Gillett, and Whyman, 1979; Kearney and Hallier, 1978a; Kearney and Hallier, 1978b; Kearney and Hallier, 1978c; Kearney and Hallier, 1978d; Kearney and Hallier, 1979a; Kearney and Hallier, 1979b; Kearney and Hallier, 1980a; Kearney and Hallier, 1980b; Kearney and Hallier, 1980c; Kearney, Hallier, and Gillett, 1979; Kearney, Hallier, and Kleiber, 1978; Kearney and Lewis, 1978; Kearney, Lewis, and Hallier, 1978; Kearney, Lewis, and Smith, 1972; Lewis, 1977a; Lewis, 1992a; Lewis, 1992b; Lewis <f=2>et al.<f=1>, no date; Leyendekkers, 1964; Marr, 1963b; Matthews and Deguara, 1992; Murray, 1990; Otsu, 1968; Pepperell, 1990b; Pepperell, 1992a; Peterson, 1972; Schaefer, 1956; Sherman, 1962; Shiohama, 1990; Sitan, 1989a; Suda, 1966; Thomson, 1962; Uda, 1936; Vuki, 1989; Williams, 1971; Wilson, 1953; Wilson and Austin, 1959

#### Abundance

Kearney, 1982a; Ottesen and Grant, 1982

#### Behavior

Anonymous, 1957t

#### Growth

Anonymous, 1956h; Anonymous, 1956l; Anonymous, 1956u; Anonymous, 1958a; Anonymous, 1958o; Anonymous, 1958s; Anonymous, 1958v; Anonymous, 1959a; Anonymous, 1967d; Anonymous, 1979i; Anonymous, 1981d; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984b; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985f; Anonymous, 1991a; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Argue <f=2>et al.<f=1>, 1986; Bayliff, 1988b; Brock and Marr, 1960; Clemens and Roedel, 1964; Ellway <f=2>et al.<f=1>, 1983; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1988; Forsbergh, 1989; Fujino, 1972; Gillett and Kearney, 1983; Habib <f=2>et al.<f=1>, 1980b; Habib and Voss, 1980; Iwasa <f=2>et al.<f=1>, 1982; Joseph and Calkins, 1969; Joseph and working party, 1969; Josse <f=2>et al.<f=1>, 1979; Kearney, 1975; Kearney, 1977a; Kearney, 1978a; Kearney, 1982b; Kearney, 1983; Kearney, 1986; Kleiber <f=2>et al.<f=1>, 1983a; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lawson <f=2>et al.<f=1>, 1984; Lewis, 1991; Matsumoto <f=2>et al.<f=1>, 1984; Naamin, 1991; Peterson, 1967; Peterson, 1968; Peterson, 1977; Peterson, 1978; Peterson, 1980; Peterson, 1981; Peterson, 1982; Peterson, 1983; Peterson, 1984; Rothschild, 1967; Schaefer, 1957b; Schaefer, 1960; Schaefer, 1961; Schaefer <f=2>et al.<f=1>, 1961; Sharp, 1983; Shomura, 1966; Sibert <f=2>et al.<f=1>, 1983; Uktolseja, 1987; Uktolseja, 1989; Waldron, 1963; Wankowski, 1981; Wild and Foreman, 1980; Yamashita and Waldron, 1959

#### Interactions

Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985c; Anonymous, 1985f; Anonymous, 1991b; Argue and Kearney,



1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Bayliff, 1983; Bayliff, 1984; Ellway <f=2>et al.<f=1>, 1983; Fink and Bayliff, 1970; Gillett and Kearney, 1983; Habib <f=2>et al.<f=1>, 1979; Habib <f=2>et al.<f=1>, 1980a; Habib <f=2>et al.<f=1>, 1980b; Habib <f=2>et al.<f=1>, 1981; Hilborn, 1987; Hilborn, 1989; Hilborn and Sibert, 1988; Kearney, 1982a; Kearney, 1982b; Kearney, 1983; Kleiber, Argue, and Kearney, 1983a; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lewis, 1991; Mullen, 1989; Polacheck, 1990; Sibert, 1984; Ward and Caton, 1992

#### Mortality

Anonymous, 1958i; Anonymous, 1964i; Anonymous, 1982h; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984b; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985b; Anonymous, 1985f; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Asano, 1991; Barrett, 1965; Bayliff, 1977; Ellway <f=2>et al.<f=1>, 1983; Fink, 1965a; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1987; Gillett and Kearney, 1983; Hunter <f=2>et al.<f=1>, 1986; Inoue, 1973; Joseph and Calkins, 1969; Joseph and working party, 1969; Kawasaki, 1965; Kearney, 1977a; Kearney, 1982a; Kearney, 1982b; Kearney, 1983; Kearney, 1986; Kearney, 1989; Kleiber <f=2>et al.<f=1>, 1983a; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber, Chivers, and Weber, 1984; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lewis, 1980b; Lewis and Hampton, 1992; Marr, 1963a; Matsumoto, 1975; Matsumoto <f=2>et al.<f=1>, 1984; Mullen, 1989; Peterson, 1966; Peterson, 1967; Peterson, 1968; Peterson, 1969; Peterson, 1975; Peterson, 1976; Peterson, 1985; Rothschild, 1966; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1960; Schaefer, 1961; Schaefer, 1963; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963; Sibert, 1984; Tauchi, 1943

#### Movements

Anonymous, 1955j; Anonymous, 1955p; Anonymous, 1955q; Anonymous, 1956h; Anonymous, 1956i; Anonymous, 1956u; Anonymous, 1957j; Anonymous, 1957o; Anonymous, 1957u; Anonymous, 1957aa; Anonymous, 1958e; Anonymous, 1958k; Anonymous, 1958m; Anonymous, 1958r; Anonymous, 1958s; Anonymous, 1958v; Anonymous, 1959a; Anonymous, 1959b; Anonymous, 1959c; Anonymous, 1959d; Anonymous, 1959i; Anonymous, 1960g; Anonymous, 1962f; Anonymous, 1962i; Anonymous, 1964i; Anonymous, 1967d; Anonymous, 1969i; Anonymous, 1975a; Anonymous, 1977a; Anonymous, 1979c; Anonymous, 1979d; Anonymous, 1979i; Anonymous, 1980c; Anonymous, 1980d; Anonymous, 1980g; Anonymous, 1981c; Anonymous, 1981d; Anonymous, 1982h; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984b; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985b; Anonymous, 1985c; Anonymous, 1985f; Anonymous, 1985g; Anonymous, 1986u; Anonymous, 1991a; Anonymous, 1991b; Asano, 1991; Argue, 1981; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Argue <f=2>et al.<f=1>, 1986; Barrett, 1965; Bayliff, 1983; Bayliff, 1984; Bayliff, 1989; Blackburn and Williams, 1975; Blunt and Messersmith, 1960; Brock, 1965; Brock and Marr, 1960; Caton, 1980; Clemens, no date; Clemens and Roedel, 1964; Ellway <f=2>et al.<f=1>, 1983; Fink, 1966; Fink and Bayliff, 1970; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1988; Frey, 1971; Fujino, 1967; Fujino, 1972; Ganaden, 1987; Gillett and Kearney, 1983; Habib <f=2>et al.<f=1>, 1979; Habib, Clement, and Iwasa, 1982; Habib <f=2>et al.<f=1>, 1980a; Habib <f=2>et al.<f=1>, 1980b; Habib <f=2>et al.<f=1>, 1981; Habib and Voss, 1980; Hilborn, 1987; Hilborn, 1989; Hilborn, 1990; Hilborn and Sibert, 1988; Hunter <f=2>et al.<f=1>, 1986; Instituto Nacional de Pesca, 1980; Iwasa <f=2>et al.<f=1>, 1982; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1964; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Josse <f=2>et al.<f=1>, 1979; Kasahara, 1968; Kasahara <f=2>et al.<f=1>, 1971; Kawasaki, 1965; Kawasaki, 1973; Kearney, 1975; Kearney, 1977a; Kearney, 1978d; Kearney, 1979; Kearney, 1980; Kearney, 1981; Kearney, 1982a; Kearney, 1982b; Kearney, 1983; Kearney, 1986; Kearney, 1989; Kitchell, 1980; Kleiber <f=2>et al.<f=1>, 1983a; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber and Kearney, 1983; Landberg, 1966; Lawson and Kearney, 1982; Lewis, 1977b; Lewis, 1980a; Lewis, 1980b; Lewis, 1991; Lewis and Hampton, 1992; Marr, 1963a; Matsumoto, 1975; Matsumoto <f=2>et al.<f=1>, 1984; Merta and Suhendrata, 1985; Mullen, 1989; Naamin, 1991; Otsu, 1970; Ottesen and Grant, 1982; Peterson, 1966; Peterson, 1967; Peterson, 1968; Peterson, 1969; Peterson,

1970; Peterson, 1971; Peterson, 1973; Peterson, 1974; Peterson, 1975; Peterson, 1977; Peterson, 1978; Peterson, 1979; Peterson, 1981; Peterson, 1982; Peterson, 1983; Peterson, 1984; Polacheck, 1990; Rothschild, 1963; Rothschild, 1965; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1959; Schaefer, 1960; Schaefer, 1961; Schaefer, 1962; Schaefer, 1963; Schaefer, 1967; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963; Seckel, 1972; Sharp, 1983; Shomura, 1988; Sibert, 1984; Sibert, 1986; Sprague, 1963; Staff of the Bureau of Commercial Fisheries Biological Laboratories at Honolulu, San Diego, and Stanford, 1963; Sund <f=2>et al.<f=1>, 1981; Tenneson, 1989; Tesch, 1980; Uda, 1972; Uktolseja, 1987; Uktolseja, 1989; Waldron, 1963; Wankowski and Gwyther, 1980; Williams, 1972; Yamashita and Waldron, 1959; Yasui and Mori, 1985; Yonemori <f=2>et al.<f=1>, 1985

#### Physiology

Barrett and Conner, 1962; Barrett and Conner, 1964; Schaefer, 1962; Schaefer, 1963

#### Schooling

Anonymous, 1960g; Bayliff, 1987; Bayliff, 1988c; Hilborn, 1991; Hunter <f=2>et al.<f=1>, 1986; Peterson, 1984

#### Shedding of tags

Anonymous, 1964l; Anonymous, 1991a; Barrett, 1965; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber, Chivers, and Weber, 1984

#### Sonic or archival tagging

Anonymous, 1969b; Anonymous, 1969g; Anonymous, 1976b; Cayré and Chabanne, 1986; Cayré, Chabanne, Moarii, and Ugolini, 1986; Dizon <f=2>et al.<f=1>, 1978; Evans, 1981; Holland <f=2>et al.<f=1>, 1985; Hunter <f=2>et al.<f=1>, 1986; Kitchell, 1980; Matsumoto <f=2>et al.<f=1>, 1984; Tesch, 1980; Yonemori, 1982; Yuen, 1970

#### Stock structure

Anonymous, 1958s; Anonymous, 1960g; Anonymous, 1961d; Anonymous, 1967d; Anonymous, 1977a; Anonymous, 1980g; Anonymous, 1981d; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1983k; Anonymous, 1984b; Anonymous, 1984c; Anonymous, 1984d; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984h; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985b; Anonymous, 1985f; Argue, 1981; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Argue and Kearney, 1983; Argue <f=2>et al.<f=1>, 1986; Asano, 1991; Bayliff, 1983; Bayliff, 1984; Bayliff, 1988b; Brock and Marr, 1960; Caton, 1980; Ellway <f=2>et al.<f=1>, 1983; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1988; Fujino, 1967; Fujino, 1972; Ganaden, 1987; Gillett and Kearney, 1983; Hunter <f=2>et al.<f=1>, 1986; Joseph, 1973; Joseph <f=2>et al.<f=1>, 1964; Joseph and working party, 1969; Kasahara, 1968; Kearney, 1975; Kearney, 1982b; Kearney, 1983; Kearney, 1986; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lewis, 1991; Marr, 1963a; Matsumoto, 1975; Matsumoto <f=2>et al.<f=1>, 1984; Ottesen and Grant, 1982; Peterson, 1983; Richardson, 1983; Rothschild, 1963; Rothschild, 1965; Schaefer, 1957b; Schaefer, 1958; Schaefer, 1967; Sharp, 1983; Shomura, 1988; Sprague, 1963; Staff of the Bureau of Commercial Fisheries Biological Laboratories at Honolulu, San Diego, and Stanford, 1963; Williams, 1972

### **Bonito, <f=2>Sarda<f=1> sp., Atlantic Ocean**

#### Brief mention

Akyüz, 1966; Akyüz, 1970; Aloncle, 1977; Aloncle <f=2>et al.<f=1>, 1976; Anonymous, 1974f; Bard <f=2>et al.<f=1>, 1988; Beckett, 1970; Brêthes, 1978; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1986; Cayré, 1987; Diouf, 1983; Diouf, 1986; González-Garcés, 1981; González-Garcés, 1983; Mather, 1963b; Mather and working party, 1969; Miyake, 1990; Nakamura, 1987; Rey, 1978; Rey and Cort, 1979

#### Growth

Rey and Cort, 1978

#### Movements

Demir, 1963; Rey <f=2>et al.<f=1>, 1984; Rey and Cort, 1978; Rey and Cort, 1981a; Rey and Cort, 1981b

### **Bonito, <f=2>Sarda<f=1> sp., Pacific Ocean**

Brief mention

Anonymous, 1952a; Bayliff and Holland, 1986; Pepperell, 1990b

Growth

Campbell and Collins, 1975

Movements

Collins and MacCall, 1977; Frey, 1971; Thayer, 1973; Yoshida, 1980a; Yoshida, 1980b

Stock structure

Yoshida, 1980a; Yoshida, 1980b

**Albacore tuna, <f=2>Thunnus alalunga<f=1>, Atlantic Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Aloncle, 1977; Aloncle, 1979; Aloncle, 1980a; Aloncle and Delaporte, 1971; Aloncle and Delaporte, 1973b; Aloncle and Delaporte, 1979; Anonymous, 1964c; Anonymous, 1964k; Anonymous, 1965b; Anonymous, 1969h; Anonymous, 1974f; Anonymous, 1977e; Anonymous, 1988f; Anonymous, 1988g; Anonymous, 1990a; Brêthes and Mason, 1979; Cendrero, 1973; Cort, 1986; Cort, 1987; Cort, 1989; Cort, 1990a; Cort and Cárdenas, 1978; Cort <f=2>et al.<f=1>, 1980; Cort and Rey, 1979; Cort <f=2>et al.<f=1>, 1981; Cort, 1989; González-Garcés, 1984; González-Gárce, 1986; González-Gárce, 1987; González-Gárce <f=2>et al.<f=1>, 1977; Guérault, 1981; Hunter <f=2>et al.<f=1>, 1986; Lamboeuf, 1973; Lavin <f=2>et al.<f=1>, 1991; Letaconnou, 1971; Letaconnou, 1974; Letaconnou, 1976; Mather, 1963b; Miyake, 1990; Rey and Cort, 1982; Rey and Cort, 1985; Rodríguez-Roda, 1964b; Stander, 1972; Stander, 1973; Stander, 1974; The Spanish Institute of Oceanography, 1991

Growth

Aloncle <f=2>et al.<f=1>, 1978; Anonymous, 1992c; Cort and Mejuto, 1990; Scott <f=2>et al.<f=1>, 1990

Mortality

Anonymous, 1975c; Hue, 1979; Mather and working party, 1969

Movements

Allain, 1967; Allain and Aloncle, 19668; Aloncle, 1978; Aloncle and Delaporte, 1970; Aloncle and Delaporte, 1973a; Aloncle and Delaporte, 1974a; Aloncle and Delaporte, 1974b; Aloncle and Delaporte, 1975; Aloncle and Delaporte, 1976; Aloncle and Delaporte, 1978; Aloncle and Delaporte, 1980; Aloncle and Delaporte, 1982; Aloncle <f=2>et al.<f=1>, 1972; Aloncle <f=2>et al.<f=1>, 1976; Aloncle <f=2>et al.<f=1>, 1977; Aloncle <f=2>et al.<f=1>, 1978; Anonymous, 1977c; Anonymous, 1977f; Anonymous, 1979e; Anonymous, 1980f; Cort, 1982b; Cort and de la Serna, 1991; Cort and Mejuto, 1990; Cort <f=2>et al.<f=1>, 1992; Delaporte and Guérault, 1980; González-Gárce, 1985; Hue, 1980; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Le Gall, 1974; Letaconnou, 1963; Letaconnou, 1972; Letaconnou, 1973; Letaconnou, 1975; Mather and Mason, 1973; Mather and working party, 1969; Mather and working party, 1972; Mejuto, 1984; Mejuto, 1985; Shomura, 1988; Santos Guerra and García-Ramos, 1985; Scott <f=2>et al.<f=1>, 1990

Stock structure

Aloncle and Delaporte, 1974a; Aloncle and Delaporte, 1978; Anonymous, 1977c; Anonymous, 1979e; Anonymous, 1980f; Anonymous, 1992c; Delaporte and Guérault, 1980; Hue, 1979; Hue, 1980; Letaconnou, 1973; Mather and Mason, 1973

**Albacore tuna, <f=2>Thunnus alalunga<f=1>, Indian Ocean**

Brief mention

Takahashi <f=2>et al.<f=1>, 1988

**Albacore tuna, <f=2>Thunnus alalunga<f=1>, Pacific Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Alverson and Chenoweth, 1951; Alverson and Chatwin, 1964; Anonymous, 1950d; Anonymous, 1952b; Anonymous, 1953a; Anonymous, 1953h; Anonymous, 1954a; Anonymous,

1954c; Anonymous, 1954k; Anonymous, 1955a; Anonymous, 1955d; Anonymous, 1955j; Anonymous, 1955l; Anonymous, 1955o; Anonymous, 1955v; Anonymous, 1956a; Anonymous, 1956d; Anonymous, 1956n; Anonymous, 1956p; Anonymous, 1956u; Anonymous, 1956v; Anonymous, 1956y; Anonymous, 1957b; Anonymous, 1957c; Anonymous, 1957f; Anonymous, 1957x; Anonymous, 1957y; Anonymous, 1958h; Anonymous, 1959h; Anonymous, 1959k; Anonymous, 1960f; Anonymous, 1960h; Anonymous, 1960i; Anonymous, 1961c; Anonymous, 1962e; Anonymous, 1963f; Anonymous, 1963g; Anonymous, 1963k; Anonymous, 1964g; Anonymous, 1964h; Anonymous, 1964k; Anonymous, 1972a; Anonymous, 1972b; Anonymous, 1972g; Anonymous, 1980a; Anonymous, 1986a; Anonymous, 1987a; Anonymous, 1987b; Anonymous, 1988b; Anonymous, 1991b; Argue and Kearney, 1983; Bailey, 1987a; Bailey, 1987b; Bayliff and Holland, 1986; Beardsell, 1987; Bell, 1964; Clemens, 1966b; CSIRO Division of Fisheries and Oceanography, 1961; Godsil, 1936; Graham, 1957; Graham, 1959; Habib and Carey, 1981; Habib, Clement, Iwasa, Swanson, and Bailey, 1982; Habib <f=2>et al.<f=1>, 1981; Ichikawa, 1981; Iwasa <f=2>et al.<f=1>, 1982; Kearney, 1980; Kearney, 1981; Kearney and Gillett, 1979b; Kearney and Hallier, 1979a; Lewis and Hampton, 1992; Matthews and Deguara, 1992; McGary and Graham, 1960; Murray, 1987; Murray and Bailey, 1986; Owen, 1963; Partlo, 1951; Pepperell, 1990b; Powell, 1950; Powell <f=2>et al.<f=1>, 1952; Roberts, 1974; Robins, 1960; Scagel, 1949; Schaefers, 1952; Strasburg, 1969; Suda, 1966; Thomson, 1962; Watkins, 1987; Wilson, 1953; Yamanaka, 1966

#### Growth

Anonymous, 1956h; Anonymous, 1957p; Anonymous, 1957aa; Anonymous, 1958g; Anonymous, 1958n; Anonymous, 1958v; Anonymous, 1981a; Anonymous, 1988c; Anonymous, 1992m; Anonymous, 1992p; Brock and Marr, 1960; Clemens, 1961; Clemens, 1962; Clemens and Roedel, 1964; Foreman, 1980a; Foreman, 1980b; Hunter <f=2>et al.<f=1>, 1986; Joseph and working party, 1969; Labelle, 1992; Laurs, 1983; Laurs <f=2>et al.<f=1>, 1985; Laurs and Wetherall, 1981; Murray, 1990; Otsu, 1960; Otsu and Uchida, 1959; Otsu and Uchida, 1963; Shomura, 1966; Yoshida and Otsu, 1963

#### Interactions

Labelle, 1992; Rothschild and Yong, 1970

#### Mortality

Inoue, 1973; Joseph and working party, 1969

#### Movements

Anonymous, 1954f; Anonymous, 1954l; Anonymous, 1954m; Anonymous, 1955r; Anonymous, 1956h; Anonymous, 1956l; Anonymous, 1956z; Anonymous, 1956bb; Anonymous, 1957d; Anonymous, 1957m; Anonymous, 1957n; Anonymous, 1957p; Anonymous, 1957aa; Anonymous, 1958g; Anonymous, 1958n; Anonymous, 1958r; Anonymous, 1958s; Anonymous, 1958u; Anonymous, 1958v; Anonymous, 1959a; Anonymous, 1959d; Anonymous, 1960c; Anonymous, 1960e; Anonymous, 1962j; Anonymous, 1962k; Anonymous, 1963e; Anonymous, 1981a; Anonymous, 1988c; Anonymous, 1992m; Anonymous, 1992p; Blunt, 1954; Brock, 1965; Brock and Marr, 1960; Clemens, 1961; Clemens, 1962; Clemens, 1966a; Clemens and Roedel, 1964; Foreman, 1980a; Foreman, 1980b; Frey, 1971; Gansele and Clemens, 1953; Graham, 1956; Hunter <f=2>et al.<f=1>, 1986; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Kikawa <f=2>et al.<f=1>, 1977; Labelle, 1992; Landberg, 1966; Laurs, 1983; Laurs and Lynn, 1977; Laurs and Lynn, 1991; Marr, 1963a; Mather, 1969; McGary <f=2>et al.<f=1>, 1961; Murray, 1990; Otsu, 1960; Otsu and Uchida, 1959; Otsu and Uchida, 1962; Otsu and Uchida, 1963; Rothschild and Yong, 1970; Schaefer, 1967; Sharp and Dotson, 1977; Shomura, 1988; Shomura and Otsu, 1956; Suda, 1962; Suda, 1963; Sund <f=2>et al.<f=1>, 1981; Ueyanagi, 1980; Van Campen and Murphy, 1957; Yoshida and Otsu, 1963

#### Shedding of tags

Clemens, 1961; Laurs <f=2>et al.<f=1>, 1976

#### Sonic or archival tagging

Anonymous, 1982a; Evans, 1981; Holland <f=2>et al.<f=1>, 1985; Holts, 1985; Hunter <f=2>et al.<f=1>, 1986; Laurs, 1972; Laurs <f=2>et al.<f=1>, 1977; Pepperell and Holland, 1992; Tesch, 1980

#### Stock structure

Anonymous, 1956l; Anonymous, 1957n; Anonymous, 1957p; Anonymous, 1957w; Anonymous, 1958r; Anonymous, 1958s; Anonymous, 1958u; Anonymous, 1959j; Anonymous, 1960a; Anonymous, 1960c; Anonymous, 1960e; Anonymous, 1961a; Anonymous, 1961d; Anonymous, 1980e; Anonymous, 1992p; Clemens, 1961; Clemens, 1962; Graham, 1956; Hunter <f=2>et al.<f=1>, 1986; Joseph and working party,

1969; Laurs, 1983; Laurs and Lynn, 1977; Laurs and Lynn, 1991; McGary <f=2>et al.<f=1>, 1961; Otsu, 1960; Otsu and Uchida, 1962; Otsu and Uchida, 1963; Rothschild and Yong, 1970; Shomura, 1988; Suda, 1962; Suda, 1963; Sund <f=2>et al.<f=1>, 1981; Yoshida and Otsu, 1963

### **Yellowfin tuna, <f=2>Thunnus albacares<f=1>, Atlantic Ocean**

#### **Brief mention**

Akyüz, 1966; Akyüz, 1970; Amon Kothias and Bard, 1987; Anonymous, 1963a; Anonymous, 1964b; Anonymous, 1964k; Anonymous, 1965b; Anonymous, 1979g; Anonymous, 1981g; Anonymous, 1982g; Anonymous, 1986m; Anonymous, 1986n; Anonymous, 1986q; Anonymous, 1987e; Anonymous, 1988a; Anonymous, 1988e; Anonymous, 1988f; Anonymous, 1988h; Bard and Amon Kothias, 1988; Bard, Mensah, and Vendeville, 1987; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1981; Cayré, 1983; Delgado de Molina and Santana, 1987; Far Seas Fisheries Research Laboratory, 1982; González-Garcés, 1985; González-Garcés, 1986; González-Garcés, 1987; Guzmán, 1989; Hunter <f=2>et al.<f=1>, 1986; Instituto Español de Oceanografía, 1992; Kume, 1981a; Kume, 1981b; Letaconnoux, 1972; Letaconnoux, 1973; Mather, 1963a; Mather, 1963b; Mather and Mason, 1973; Mather and working party, 1969; Mensah, 1988; Nakamura, 1987; National Marine Fisheries Service, 1974; National Marine Fisheries Service, 1989; Negreiros Aragão, 1978; Negreiros Aragão, 1979; Rinaldo and Vergne, 1981; Santa Rita Viera, 1982; Santa Rita Viera <f=2>et al.<f=1>, 1983; Santos Guerra and García-Ramos, 1985; Santos Guerra and Torres Nuñez, 1981; Stander, 1972; Stander, 1973; Symons, 1981; The Spanish Institute of Oceanography, 1991; Tibbo and Beckett, 1971; Yamaguchi and Kikawa, 1982

#### **Growth**

Anonymous, 1986d; Anonymous, 1991d; Bard, 1984a; Bard, 1985; Bard, 1989; Bard and Amon Kothias, 1986b; Bard, Amon Kothias, and Holzapfel, 1987; Bard and Scott, 1989; Bard <f=2>et al.<f=1>, 1991; Capisano and Fonteneau, 1991; Cayré <f=2>et al.<f=1>, 1988; Fonteneau, 1973; Fonteneau, 1980; Fonteneau, 1981; Fonteneau, 1986; Gong and Lee, 1983; Miyabe, 1984; Miyake, 1990

#### **Interactions**

Anonymous, 1991d; Fonteneau, 1981; Fonteneau, 1986; Hilborn and Sibert, 1988; Miyake, 1990

#### **Mortality**

Fonteneau, 1973

#### **Movements**

Amon Kothias and Bard, 1985; Anonymous, 1979e; Anonymous, 1986d; Anonymous, 1986o; Anonymous, 1991d; Bard, 1989; Bard and Amon Kothias, 1986b; Bard, Amon Kothias, and Holzapfel, 1987; Bard and Cayré, 1986; Bard <f=2>et al.<f=1>, 1988; Bard and Scott, 1989; Bard and Scott, 1991; Bard and Scott, 1992; Beckett, 1970; Browder <f=2>et al.<f=1>, 1991; Cayré <f=2>et al.<f=1>, 1974; Fonteneau, 1973; Fonteneau, 1981; Fonteneau, 1982; Fonteneau, 1992a; Gong and Lee, 1983; Hilborn and Sibert, 1988; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mather and working party, 1972; Miyake, 1990; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; Shomura, 1988; Suárez Caabro and Duarte Bello, 1961

#### **Stock structure**

Anonymous, 1978d; Anonymous, 1979e; Anonymous, 1991d; Bard, 1989; Bard and Cayré, 1986; Bard <f=2>et al.<f=1>, 1988; Bard and Scott, 1989; Bard and Scott, 1991; Bard and Scott, 1992; Cayré <f=2>et al.<f=1>, 1974; Fonteneau, 1973; Fonteneau, 1981; Fonteneau, 1982; Fonteneau, 1992a; Miyake, 1990

### **Yellowfin tuna, <f=2>Thunnus albacares<f=1>, Indian Ocean**

#### **Brief mention**

Anonymous, 1970b; Anonymous, 1988d; Anonymous, 1990d; Anonymous, 1991a; Anonymous, 1991c; Rochepeau, 1991a; Shomura, 1987; Takahashi <f=2>et al.<f=1>, 1988; Waheed, 1991

#### **Growth**

Anonymous, 1990c; Cayré and Ramcharrun, 1991; Fonteneau, 1992b; Yesaki and Waheed, 1991; Yesaki and Waheed, 1992

#### **Movements**

Anonymous, 1990c; Anonymous, 1992a; Cayré, 1991a; Cayré and Ramcharrun, 1991; Nishida, 1991a; Nishida, 1991b; Rochepeau, 1991b; Yano, 1991; Yesaki and Waheed, 1991; Yesaki and Waheed, 1992

Sonic or archival tagging

Association Thonière-Commission de l'Océan Indien, 1991; Cayré, 1991a; Cayré, 1991b

Stock structure

Anonymous, 1992a; Fonteneau, 1992b; Nishida, 1991b; Yesaki and Waheed, 1991

**Yellowfin tuna, <f=2>Thunnus albacares<f=1>, Pacific Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Alverson and Chatwin, 1964; Anonymous, 1950a; Anonymous, 1950c; Anonymous, 1952a; Anonymous, 1953c; Anonymous, 1953d; Anonymous, 1953f; Anonymous, 1953h; Anonymous, 1954d; Anonymous, 1954h; Anonymous, 1955a; Anonymous, 1955b; Anonymous, 1955c; Anonymous, 1955e; Anonymous, 1955f; Anonymous, 1955h; Anonymous, 1955i; Anonymous, 1955j; Anonymous, 1955m; Anonymous, 1955t; Anonymous, 1955u; Anonymous, 1956b; Anonymous, 1956c; Anonymous, 1956e; Anonymous, 1956g; Anonymous, 1956i; Anonymous, 1956j; Anonymous, 1956k; Anonymous, 1956o; Anonymous, 1956r; Anonymous, 1956s; Anonymous, 1956w; Anonymous, 1956x; Anonymous, 1957a; Anonymous, 1957d; Anonymous, 1957e; Anonymous, 1957g; Anonymous, 1957h; Anonymous, 1957i; Anonymous, 1957r; Anonymous, 1958c; Anonymous, 1958j; Anonymous, 1958k; Anonymous, 1958s; Anonymous, 1958w; Anonymous, 1959g; Anonymous, 1963k; Anonymous, 1964b; Anonymous, 1964k; Anonymous, 1970a; Anonymous, 1972e; Anonymous, 1972g; Anonymous, 1977h; Anonymous, 1977i; Anonymous, 1978b; Anonymous, 1980a; Anonymous, 1980h; Anonymous, 1981c; Anonymous, 1983i; Anonymous, 1983j; Anonymous, 1984c; Anonymous, 1984e; Anonymous, 1984f; Anonymous, 1984g; Anonymous, 1984i; Anonymous, 1984j; Anonymous, 1985b; Anonymous, 1985f; Anonymous, 1986c; Anonymous, 1986e; Anonymous, 1986u; Anonymous, 1987d; Anonymous, 1990c; Anonymous, 1991b; Anonymous, 1992b; Anonymous, 1992h; Arce and Barut, 1989; Argue and Kearney, 1982a; Argue and Kearney, 1982b; Bayliff, 1973; Bayliff, 1988a; Bayliff and Holland, 1986; Bayliff and Hunt, 1981; Beckett, 1970; Broadhead, 1959; Caton, 1987; CSIRO Division of Fisheries and Oceanography, 1961; Ellway <f=2>et al.<f=1>, 1983; Fink, 1965b; Foreman, 1987; Gillett and Kearney, 1980; Gillett and Kearney, 1983; Godsil, 1936; Godsil, 1938; Graham, 1957; Habib, Clement, Iwasa, Swanson, and Bailey, 1982; Habib and Voss, 1980; Hallier and Kearney, 1980; Hida, 1970b; Hynd, 1968; Ishida, 1989; Itano, 1991; Iwasa <f=2>et al.<f=1>, 1982; Jakobsson, 1970; Joseph, 1981; Kailola, 1978; Kearney, 1974; Kearney, 1977b; Kearney, 1978b; Kearney, 1978c; Kearney, 1978d; Kearney, 1979; Kearney, 1980; Kearney, 1981; Kearney, 1982b; Kearney and Argue, 1980; Kearney and Gillett, 1978a; Kearney and Gillett, 1978b; Kearney and Gillett, 1979b; Kearney and Gillett, 1980; Kearney, Gillett, and Whyman, 1979; Kearney and Hallier, 1978a; Kearney and Hallier, 1978b; Kearney and Hallier, 1978c; Kearney and Hallier, 1979b; Kearney and Hallier, 1980a; Kearney and Hallier 1980b; Kearney, Hallier, and Gillett, 1979; Kearney, Hallier, and Kleiber, 1978; Kearney and Lewis, 1978; Kearney, Lewis, and Hallier, 1978; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lewis, 1977a; Lewis, 1992a; Lewis, 1992b; Lewis <f=2>et al.<f=1>, no date; Mather, 1963b; Matthews and Deguara, 1992; Merta and Suhendrata, 1985; Naamin, 1991; Pepperell, 1990b; Peterson, 1979; Roberts, 1975; Schaefer, 1956; Shiohama, 1990; Shomura and Otsu, 1956; Strasburg, 1969; Suda, 1966; Thomson, 1962; Uchiyama, 1980; Uktolseja, 1987; Uktolseja, 1989; Ward, 1987; Ward, 1991; Williams, 1971; Wilson, 1953; Wilson and Austin, 1959; Yamanaka, 1966; Williams and Diplock, 1989

Effect of tagging

Bayliff, 1988b

Growth

Anonymous, 1954b; Anonymous, 1957aa; Anonymous, 1991a; Bayliff, 1987; Bayliff, 1988b; Blunt and Messersmith, 1960; Clemens and Roedel, 1964; Cole, 1980a; Cole, 1980b; Itano, 1992; Itano and Williams, 1992; Joseph and working party, 1969; Lewis, 1991; Mimura and staff, 1963; Peterson, 1967; Peterson, 1972; Peterson, 1977; Peterson, 1978; Peterson, 1980; Peterson, 1981; Peterson, 1982; Peterson, 1983; Peterson, 1984; Schaefer, 1957b; Schaefer, 1960; Schaefer, 1961; Schaefer, Broadhead, and Orange, 1963; Schaefer <f=2>et al.<f=1>, 1961; Suzuki, 1971; Ward and Caton, 1992; Wild and Foreman, 1980; Yabuta and Yukinawa, 1959; Yabuta <f=2>et al.<f=1>, 1960

## Interactions

Anonymous, 1957aa; Anonymous, 1980e; Bayliff, 1979; Bayliff, 1983; Bayliff, 1984; Bayliff and Rothschild, 1974; Deriso <f=2>et al.<f=1>, 1991; Fink and Bayliff, 1970; Gunn <f=2>et al.<f=1>, 1992; Hampton, 1989a; Hilborn, 1987; Hilborn and Sibert, 1988; Ishii, 1978; Ishii, 1979; Itano, 1992; Lenarz and Zweifel, 1979; Lewis, 1991; Miyabe and Bayliff, 1987; Mullen, 1989; Nakano and Bayliff, 1992; Peterson, 1984; Polacheck, 1989; Polacheck, 1990; Ward and Caton, 1992

## Mortality

Anonymous, 1964l; Barrett, 1965; Bayliff, 1971; Bayliff, 1974; Fink, 1965a; Inoue, 1973; Ishii, 1979; Itano, 1992; Joseph and working party, 1969; Lewis and Hampton, 1992; Mullen, 1989; Peterson, 1966; Peterson, 1967; Peterson, 1969; Peterson, 1972; Peterson, 1974; Peterson, 1975; Peterson, 1985; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1960; Schaefer, 1961; Schaefer, 1962; Schaefer, 1963; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963

## Movements

Anonymous, 1953b; Anonymous, 1953g; Anonymous, 1954l; Anonymous, 1956u; Anonymous, 1956bb; Anonymous, 1957l; Anonymous, 1957s; Anonymous, 1957aa; Anonymous, 1958e; Anonymous, 1958t; Anonymous, 1959b; Anonymous, 1960h; Anonymous, 1964l; Anonymous, 1969i; Anonymous, 1983k; Anonymous, 1985g; Anonymous, 1991a; Anonymous, 1992i; Barrett, 1965; Bayliff, 1979; Bayliff, 1984; Bayliff, 1989; Bayliff and Rothschild, 1974; Blunt and Messersmith, 1960; Caton and Ward, 1987; Clemens, no date; Clemens and Roedel, 1964; Cole, 1980a; Cole, 1980b; Deriso <f=2>et al.<f=1>, 1991; Fink, 1966; Fink and Bayliff, 1970; Frey, 1971; Hilborn, 1987; Hilborn and Sibert, 1988; Hunter <f=2>et al.<f=1>, 1986; Instituto Nacional de Pesca, 1980; Ishii, 1978; Ishii, 1979; Itano, 1992; Itano and Williams, 1992; Iversen and Yoshida, 1957; Joseph <f=2>et al.<f=1>, 1964; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Lenarz and Zweifel, 1979; Lewis, 1991; Lewis and Hampton, 1992; Marr, 1963a; Martínez and Inostroza, 1980; Miyabe and Bayliff, 1987; Mullen, 1989; Nakamura, 1969; Nakano and Bayliff, 1992; Peterson, 1966; Peterson, 1967; Peterson, 1968; Peterson, 1969; Peterson, 1970; Peterson, 1971; Peterson, 1972; Peterson, 1973; Peterson, 1974; Peterson, 1975; Peterson, 1976; Peterson, 1977; Peterson, 1978; Peterson, 1980; Peterson, 1981; Peterson, 1982; Peterson, 1983; Peterson, 1984; Polacheck, 1989; Polacheck, 1990; Robins, 1960; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1959; Schaefer, 1960; Schaefer, 1961; Schaefer, 1962; Schaefer, 1963; Schaefer, 1967; Schaefer, Broadhead, and Orange, 1963; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963; Shomura, 1988; Sibert, 1986; Sund <f=2>et al.<f=1>, 1981; Suzuki <f=2>et al.<f=1>, 1978; Tenneson, 1989; Watkins, 1987; Yonemori <f=2>et al.<f=1>, 1985

## Physiology

Barrett and Conner, 1962; Barrett and Conner, 1964; Schaefer, 1962; Schaefer, 1963

## Shedding of tags

Anonymous, 1964l; Anonymous, 1991a; Barrett, 1965; Bayliff and Mobrand, 1972; Chapman <f=2>et al.<f=1>, 1965; Ishii, 1979; Itano, 1992; Peterson, 1966; Peterson, 1971; Peterson, 1972

## Sonic or archival tagging

Anonymous, 1968c; Anonymous, 1981i; Anonymous, 1983l; Anonymous, 1984a; Brill <f=2>et al.<f=1>, 1984; Carey and Olson, 1982; Cayré and Chabanne, 1986; Cayré, Chabanne, Moarii, and Ugolini, 1986; Holland <f=2>et al.<f=1>, 1985; Holland <f=2>et al.<f=1>, 1990b; Hunter <f=2>et al.<f=1>, 1986; Pepperell and Holland, 1992; Peterson, 1982; Suzuki, 1984; Suzuki, 1988; Suzuki and Kume, 1982; Yonemori, 1982

## Stock structure

Barrett, 1965; Bayliff, 1983; Bayliff, 1984; Gunn <f=2>et al.<f=1>, 1992; Hunter <f=2>et al.<f=1>, 1986; Ishii, 1978; Joseph, 1973; Joseph <f=2>et al.<f=1>, 1964; Joseph and working party, 1969; Lewis, 1991; Marr, 1963a; Schaefer, 1957b; Schaefer, 1967; Schaefer, Broadhead, and Orange, 1963; Suzuki <f=2>et al.<f=1>, 1978

## **Blackfin tuna, <f=2>Thunnus atlanticus<f=1>, Atlantic Ocean**

## Brief mention

Akyüz, 1970; Anonymous, 1981g; Anonymous, 1986j; Division of Pelagic Resources, Far Seas Fisheries Research Laboratory, 1980; García Morena and Rodríguez Rodríguez, 1983; Mather, 1963b; Miyake, 1990; Negreiros Aragão, 1979; Rinaldo <f=2>et al.<f=1>, 1981

Movements

Mather and working party, 1972

**Southern bluefin tuna, <f=2>Thunnus maccoyii<f=1>**

Brief mention

Akyüz, 1966; Akyüz, 1970; Anonymous, 1961e; Anonymous, 1962l; Anonymous, 1962m; Anonymous, 1963b; Anonymous, 1963h; Anonymous, 1963l; Anonymous, 1963m; Anonymous, 1965d; Anonymous, 1969e; Anonymous, 1972e; Anonymous, 1976c; Anonymous, 1979a; Anonymous, 1982c; Anonymous, 1983b; Anonymous, 1983c; Anonymous, 1992f; Austin, 1973; Bayliff and Holland, 1986; Evans and Hynd, 1972; Hampton, 1986; Hearn and Majkowski, 1987a; Hunter <f=2>et al.<f=1>, 1986; Hynd and Kerrisk, 1971; Joll, 1992; Kesteven, 1967; Lenarz and Zweifel, 1979; Matthews and Deguara, 1992; Thomson, 1962; Williams and Diplock, 1989

Abundance

Majkowski, 1982b; Majkowski <f=2>et al.<f=1>, 1981

Effect of tagging

Caton, 1991; Hampton, 1986; Hampton, 1989b

Growth

Anonymous, 1960h; Anonymous, 1962o; Anonymous, 1981b; Anonymous, 1981f; Anonymous, 1982b; Anonymous, 1992e; Anonymous, 1992g; Caton, 1991; CSIRO Division of Fisheries and Oceanography, 1961; Hampton, 1989a; Hampton, 1989b; Hampton, 1991a; Hearn, 1986; Hynd and Robins, 1967; Hynd and Vaux, 1963; Kesteven, 1964; Kirkwood, 1983; Leyendekkers, 1964; Lucas, 1974; Majkowski, 1982a; Majkowski <f=2>et al.<f=1>, 1988; Majkowski and Murphy, 1983; Murphy, 1977; Olson, 1980a; Olson, 1980b; Robins, 1960; Robins, 1963; Ross and Swanson, 1986; Shingu, 1978; Ward and Caton, 1992; Whitelaw <f=2>et al.<f=1>, 1992; Williams, 1980; Yukinawa, 1970

Interactions

Caton <f=2>et al.<f=1>, 1990; Hampton, 1989b; Hearn, 1989; Hearn and Majkowski, 1987b; Majkowski <f=2>et al.<f=1>, 1988; Polacheck, 1992; Robins, 1966

Mortality

Anonymous, 1980e; Caton, 1991; Caton <f=2>et al.<f=1>, 1990; Eckert and Majkowski, 1987; Hampton, 1989b; Hampton, 1991b; Hearn, 1989; Hearn <f=2>et al.<f=1>, 1987; Hynd, 1965; Hynd, 1973; Hynd <f=2>et al.<f=1>, 1968; Hynd and Lucas, 1974; Kesteven, 1964; Lucas, 1974; Majkowski, 1982b; Majkowski <f=2>et al.<f=1>, 1984; Majkowski <f=2>et al.<f=1>, 1988; Majkowski and Murphy, 1983; Olson, 1980a; Olson, 1980b

Movements

Anonymous, 1960h; Anonymous, 1962h; Anonymous, 1962n; Anonymous, 1966d; Anonymous, 1968e; Anonymous, 1969f; Anonymous, 1972h; Anonymous, 1975b; Anonymous, 1980e; Anonymous, 1981b; Anonymous, 1981f; Anonymous, 1982b; Anonymous, 1986b; Anonymous, 1992e; Caton, 1991; Caton <f=2>et al.<f=1>, 1990; CSIRO Division of Fisheries and Oceanography, 1961; Hampton, 1991b; Hynd, 1965; Hynd, 1969; Hynd, 1974; Hynd and Kerr, 1969; Hynd and Kerrisk, 1970; Hynd and Lucas, 1974; Hynd and Robins, 1967; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Kesteven, 1964; Leyendekkers, 1964; Lucas, 1974; Maclean, 1974; Majkowski <f=2>et al.<f=1>, 1988; Majkowski and Murphy, 1983; Mather, 1969; Murphy, 1977; Murphy and Majkowski, 1981; Murphy <f=2>et al.<f=1>, 1977; Nakamura, 1969; Olson, 1980a; Olson, 1980b; Pepperell, 1985; Polacheck, 1991; Robins, 1960; Robins, 1963; Robins, 1966; Ross and Swanson, 1986; Shingu, 1967; Shingu, 1970; Shingu, 1978; Suda, 1971; Sund <f=2>et al.<f=1>, 1981; Ward and Caton, 1992; Whitelaw and Hearn, 1991; Whitelaw <f=2>et al.<f=1>, 1992; Williams, 1980; Williams, 1983; Williams, 1992

Recruitment

Whitelaw <f=2>et al.<f=1>, 1992

Shedding of tags



Caton, 1991; Eckert and Majkowski, 1987; Hampton, 1989b; Hampton and Kirkwood, 1990; Hearn, 1989; Hearn <f=2>et al.<f=1>, 1991; Hynd, 1965; Hynd, 1969; Hynd <f=2>et al.<f=1>, 1967; Kirkwood, 1981; Lucas, 1974; Majkowski and Murphy, 1983

Sonic or archival tagging

Davis and Gunn, 1992a; Davis and Gunn, 1992b

Stock structure

Anonymous, 1962h; Anonymous, 1962n; Anonymous, 1980e; Caton, 1991; Hynd, 1969; Lucas, 1974; Maclean, 1974; Majkowski, 1982a; Robins, 1963; Shingu, 1967; Shingu, 1970; Shingu, 1978; Ward and Caton, 1992

**Bigeye tuna, <f=2>Thunnus obesus<f=1>, Atlantic Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Aloncle, 1977; Aloncle, 1979; Aloncle and Delaporte, 1974b; Aloncle <f=2>et al.<f=1>, 1978; Amon Kothias and Bard, 1985; Anonymous, 1965b; Anonymous, 1965c; Anonymous, 1966a; Anonymous, 1974a; Anonymous, 1979g; Anonymous, 1981g; Anonymous, 1986m; Anonymous, 1986n; Anonymous, 1986o; Anonymous, 1986q; Anonymous, 1988a; Anonymous, 1988e; Anonymous, 1988f; Bard, Mensah, and Vendeville, 1987; Burnett <f=2>et al.<f=1>, 1977; Cayré, 1981; Cayré, 1983; Cayré <f=2>et al.<f=1>, 1974; Cort, 1987; Cort, 1990a; Cort <f=2>et al.<f=1>, 1981; Far Seas Fisheries Research Laboratory, 1982; González-Garcés, 1984; González-Garcés, 1985; González-Garcés, 1986; Hunter <f=2>et al.<f=1>, 1986; Hurley and Iles, 1982a; Iles <f=2>et al.<f=1>, 1981; Kume, 1981b; Kume, 1982; Letaconneaux, 1974; Letaconneaux, 1976; Mather, 1963b; Mather and Mason, 1973; Mather and working party, 1972; Rey and Cort, 1985; Santos Guerra and García Ramos, 1985; Symons, 1981; Tibbo and Beckett, 1971

Growth

Anonymous, 1978d; Cayré <f=2>et al.<f=1>, 1988; Cayré and Diouf, 1984; Gong and Lee, 1983; Miyabe, 1984; Miyake, 1990

Movements

Aloncle and Delaporte, 1980; Aloncle <f=2>et al.<f=1>, 1976; Aloncle <f=2>et al.<f=1>, 1978; Anonymous, 1987e; Bard and Amon Kothias, 1986b; Bard <f=2>et al.<f=1>, 1988; Gong and Lee, 1983; Joseph <f=2>et al.<f=1>, 1988; Miyabe, 1987; Yamaguchi and Kikawa, 1982

Sonic or archival tagging

Anonymous, 1982d

Stock structure

Bard <f=2>et al.<f=1>, 1988; Miyake, 1990;

**Bigeye tuna, <f=2>Thunnus obesus<f=1>, Indian Ocean**

Brief mention

Anonymous, 1988d; Anonymous, 1990c; Anonymous, 1990d; Anonymous, 1991a; Anonymous, 1991c; Association Thonière-Commission de l'Océan Indien, 1991; Takahashi <f=2>et al.<f=1>, 1988

Growth

Cayré and Ramcharrun, 1991

Movements

Cayré and Ramcharrun, 1991; Yano, 1991

**Bigeye tuna, <f=2>Thunnus obesus<f=1>, Pacific Ocean**

Brief mention

Akyüz, 1966; Akyüz, 1970; Anonymous, 1950a; Anonymous, 1954c; Anonymous, 1954h; Anonymous, 1955a; Anonymous, 1955b; Anonymous, 1955c; Anonymous, 1955d; Anonymous, 1955f; Anonymous, 1955j; Anonymous, 1955o; Anonymous, 1956e; Anonymous, 1956j; Anonymous, 1956o; Anonymous, 1956u; Anonymous, 1957c; Anonymous, 1957d; Anonymous, 1957h; Anonymous, 1963k; Anonymous, 1970a; Anonymous, 1972g; Anonymous, 1977h; Anonymous, 1977i; Anonymous, 1990c; Anonymous,

1991b; Anonymous, 1992b; Anonymous, 1992h; Arce and Barut, 1989; Gillett and Kearney, 1980; Graham, 1957; Ishida, 1989; Itano, 1991; Itano and Williams, 1992; Iversen and Yoshida, 1957; Kailola, 1978; Kearney, 1978b; Kearney, 1978c; Kearney, 1978d; Kearney, 1979; Kearney, 1980; Kearney, 1981; Kearney and Hallier, 1979b; Kearney and Hallier, 1980a; Kearney and Lewis, 1978; Lewis, 1991; Lewis, 1992a; Lewis, 1992b; Lewis and Hampton, 1992; Matthews and Deguara, 1992; Peterson, 1968; Peterson, 1973; Peterson, 1979; Peterson, 1980; Shiohama, 1990; Shomura and Otsu, 1956; Strasburg, 1969; Suda, 1966; Ward, 1987; Watkins, 1987; Yamanaka, 1966; Yonemori <f=2>et al.<f=1>, 1985

#### Growth

Alverson and Peterson, 1963; Anonymous, 1956f; Anonymous, 1956m; Anonymous, 1992j; Otsu and Uchida, 1956

#### Movements

Alverson and Peterson, 1963; Anonymous, 1956f; Anonymous, 1956m; Anonymous, 1957aa; Anonymous, 1992j; Bayliff, 1991a; Bayliff, 1992a; Bayliff, 1992b; Calkins, 1980a; Calkins, 1980b; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Kume, 1967; Otsu and Uchida, 1956; Shomura, 1988; Sund <f=2>et al.<f=1>, 1981

#### Sonic or archival tagging

Anonymous, 1981i; Anonymous, 1983l; Bushnell and Holland, 1989; Holland <f=2>et al.<f=1>, 1990b; Holland <f=2>et al.<f=1>, 1992; Hunter <f=2>et al.<f=1>, 1986; Pepperell and Holland, 1992; Suzuki, 1984; Suzuki, 1988; Suzuki and Kume, 1982; Tenneson, 1989

### **Northern bluefin tuna, <f=2>Thunnus thynnus<f=1>, Atlantic Ocean**

#### Brief mention

Akyüz, 1966; Akyüz, 1970; Aloncle, 1977; Aloncle, 1979; Aloncle, 1980a; Aloncle and Delaporte, 1970; Aloncle and Delaporte, 1971; Aloncle <f=2>et al.<f=1>, 1976; Aloncle <f=2>et al.<f=1>, 1978; Anonymous, 1954e; Anonymous, 1954m; Anonymous, 1959e; Anonymous, 1964b; Anonymous, 1964c; Anonymous, 1964k; Anonymous, 1969h; Anonymous, 1971a; Anonymous, 1972e; Anonymous, 1972f; Anonymous, 1974a; Anonymous, 1974c; Anonymous, 1976a; Anonymous, 1981g; Anonymous, 1982e; Anonymous, 1988f; Anonymous, 1988g; Beckett, 1968; Beckett, 1974b; Burnett <f=2>et al.<f=1>, 1977; Casey <f=2>et al.<f=1>, 1988; Cayré, 1986; Cendrero, 1973; Clay, 1986; Clay and Porter, 1992; Cort, 1986; Cort, 1987; Cort, 1989; Cort, 1990a; Cort and Cárdenas, 1978; Cort <f=2>et al.<f=1>, 1980; Cort and Rey, 1979; Cort <f=2>et al.<f=1>, 1981; Fridriksson, 1952; González-Gárce, 1979; González-Gárce, 1980; González-Gárce, 1981; González-Gárce, 1982; González-Gárce, 1983; González-Gárce, 1984; González-Gárce, 1985; González-Gárce, 1987; González-Gárce <f=2>et al.<f=1>, 1977; Hamou-Tahra and Brêthes, 1978; Hamre, 1960; Instituto Español de Oceanografía, 1992; Lenarz <f=2>et al.<f=1>, 1972; Letaconnoux, 1974; Letaconnoux, 1975; Mather, 1961; Mather, 1963a; Mejuto, 1984; Mejuto, 1985; Meyer-Waarden, 1959; National Marine Fisheries Service, 1979; National Marine Fisheries Service, 1980; National Marine Fisheries Service, 1981; National Marine Fisheries Service, 1988; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Oceanic and Atmospheric Administration, National Marine Fisheries Service, 1975; National Oceanic and Atmospheric Administration, National Marine Fisheries Service, 1976; National Oceanic and Atmospheric Administration, National Marine Fisheries Service, 1977; Rey, 1978; Rey and Cort, 1978; Rey and Cort, 1979; Rey and Cort, 1981a; Rey and Cort, 1981b; Rey and Cort, 1982; Rey and Cort, 1985; Rodríguez-Roda, 1966a; Sakagawa and Coan, 1974; de la Serna <f=2>et al.<f=1>, 1992; The Spanish Institute of Oceanography, 1991; Tibbo and Beckett, 1973; Tyler <f=2>et al.<f=1>, 1977; Tyler <f=2>et al.<f=1>, 1978; Wise <f=2>et al.<f=1>, 1971

#### Abundance

Porter and Hogans, 1991

#### Growth

Anonymous, 1960j; Anonymous, 1980f; Anonymous, 1987c; Beckett, 1970; Clay, 1991; Cort, 1990b; Cort and Rey, 1985; Farber and Lee, 1981; Fee, 1991; Hurley and Iles, 1982b; Lamboeuf, 1973; Lee and Prince, 1991; Mather, 1960; Mather, 1980a; Mather and Mason, 1973; Mather and Schuck, 1960; Miyake, 1990; Parrack and Phares, 1979; Scott <f=2>et al.<f=1>, 1990; Suzuki and Ishizuka, 1991; Tiews, 1963; Turner <f=2>et al.<f=1>, 1991

## Mortality

Anonymous, 1968f; Anonymous, 1975c; Anonymous, 1980f; Butler, 1971; Butler, 1982; Casey <f=2>et al.<f=1>, 1978; Clay, 1991; Cort and Rey, 1985; Doi <f=2>et al.<f=1>, 1985; Farber, 1980; Fee, 1991; Mason, 1975; Mather <f=2>et al.<f=1>, 1973; Mather, Rothschild, Paulik, and Lenarz, 1974; Mather and working party, 1972; Miyabe, 1983; Miyake, 1990; Powers <f=2>et al.<f=1>, 1983; Rodríguez-Roda, 1964b

## Movements

Allain and Aloncle, 1968; Aloncle, 1973; Aloncle and Delaporte, 1980; Anonymous, 1960b; Anonymous, 1960j; Anonymous, 1962b; Anonymous, 1962c; Anonymous, 1962d; Anonymous, 1962j; Anonymous, 1962k; Anonymous, 1963a; Anonymous, 1963d; Anonymous, 1963e; Anonymous, 1963j; Anonymous, 1967b; Anonymous, 1968f; Anonymous, 1969d; Anonymous, 1971c; Anonymous, 1974b; Anonymous, 1974d; Anonymous, 1974f; Anonymous, 1975c; Anonymous, 1976d; Anonymous, 1977c; Anonymous, 1979e; Anonymous, 1980f; Arena, 1960; Baglin <f=2>et al.<f=1>, 1978; Beardsley, 1985; Beckett, 1970; Brêthes, 1978; Brêthes, 1979; Brêthes and Mason, 1979; Brown and Parrack, 1985; Brunenmeister, 1980; Burnett <f=2>et al.<f=1>, 1979; Burnett and Iles, 1978; Bushnell and Holland, 1989; Butler, 1971; Butler, 1982; Caddy and Beckett, 1975; Caddy and Burnett, 1976; Carey <f=2>et al.<f=1>, 1971; Casey <f=2>et al.<f=1>, 1978; Clay, 1991; Cort, 1982a; Cort, 1982b; Cort, 1990b; Cort and Rey, 1981; Cort and Rey, 1983; Cort and Rey, 1985; Division of Pelagic Resources, Far Seas Fisheries Research Laboratory, 1980; Dwivedi, 1964; Farber and Chewing, 1980; Farrugio, 1980; Fee, 1991; Hamre, 1961; Hamre, 1962; Hamre, 1963a; Hamre, 1963b; Hamre, 1964; Hamre, 1965; Hayasi <f=2>et al.<f=1>, 1970; Heldt, 1927a; Heldt, 1927b; Heldt, 1929; Heldt, 1930; Heldt, 1931; Heldt, 1932; Heldt, 1934; Heldt, 1937; Heldt, 1938; Hunter <f=2>et al.<f=1>, 1986; Hurley, Burnett, and Dickson, 1979; Hurley and Iles, 1980; Hurley and Iles, 1982a; Hurley and Iles, 1982b; Hurley <f=2>et al.<f=1>, 1983; Iles and Burnett, 1977; Iles <f=2>et al.<f=1>, 1980; Iles <f=2>et al.<f=1>, 1981; Jakobsson, 1970; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Lamboeuf, 1973; Lamboeuf, 1975; Letaconnoux, 1971; Marr, 1963a; Mason, 1975; Mason <f=2>et al.<f=1>, 1977; Mather, 1960; Mather, 1962; Mather, 1963b; Mather, 1964; Mather, 1969; Mather, 1980b; Mather and Bartlett, 1962; Mather and Bartlett, 1966; Mather <f=2>et al.<f=1>, 1967; Mather and Mason, 1973; Mather and Mason, 1976; Mather, Mason, and Jones, 1974; Mather <f=2>et al.<f=1>, 1973; Mather, Rothschild, Paulik, and Lenarz, 1974; Mather and Schuck, 1960; Mather and working party, 1969; Mather and working party, 1972; Miyabe and Suzuki, 1989; Miyake, 1990; National Marine Fisheries Service, 1987; National Marine Fisheries Service, 1992; Nichols, 1980; Postel, 1970; Rey, 1978; Rey, 1983; Richards, 1988; Rivas, 1978; Rodríguez-Roda, 1959; Rodríguez-Roda, 1963; Rodríguez-Roda, 1964a; Rodríguez-Roda, 1964c; Rodríguez-Roda, 1969a; Rodríguez-Roda, 1971; Rodríguez-Roda, date unknown; Sarà, 1973; Scott <f=2>et al.<f=1>, 1990; Sella, 1926a; Sella, 1929; Sella, 1930; Suzuki and Ishizuka, 1991; Tesch, 1980; Tibbo and Beckett, 1971; Tiews, 1963; Tiews, 1964; Tyler <f=2>et al.<f=1>, 1979; Westman and Neville, 1942; Wilson, 1965

## Recruitment

Miyabe, 1983

## Schooling

Fee, 1991; Turner, 1986

## Shedding of tags

Anonymous, 1973b; Baglin <f=2>et al.<f=1>, 1980a; Baglin <f=2>et al.<f=1>, 1980b; Baglin <f=2>et al.<f=1>, 1978; Farber, 1980; Hurley, Dickson, and Iles, 1979; Hurley and Iles, 1980; Lenarz <f=2>et al.<f=1>, 1973a; Lenarz <f=2>et al.<f=1>, 1973b; Mather and Mason, 1976; Mather, Rothschild, Paulik, and Lenarz, 1974; National Marine Fisheries Service, 1974; Porter and Hogans, 1992; Tibbo and Beckett, 1974

## Sonic or archival tagging

Bass and Rascovich, 1965; Bayliff and Holland, 1986; Butler, 1978; Butler, 1982; Butler and Pincock, 1978; Caddy and Beckett, 1975; Carey, 1973; Carey <f=2>et al.<f=1>, 1984; Carey and Lawson, 1973; Carey <f=2>et al.<f=1>, 1971; Hunter <f=2>et al.<f=1>, 1986; Hurley, Dickson, and Iles, 1979; Kanwisher <f=2>et al.<f=1>, 1974; Porter and Hogans, 1992; Stevens <f=2>et al.<f=1>, 1978; Tibbo and Beckett, 1972

## Stock structure

Anonymous, 1974d; Anonymous, 1975c; Anonymous, 1976c; Anonymous, 1976d; Anonymous, 1977c; Anonymous, 1978d; Anonymous, 1979e; Anonymous, 1980f; Anonymous, 1987e; Brown and Parrack, 1985; Brunenmeister, 1980; Butler, 1982; Casey <f=2>et al.<f=1>, 1978; Clay, 1991; Cort and Rey, 1983; Hunter <f=2>et al.<f=1>, 1986; Mather, 1980b; Mather, Mason, and Jones, 1974; Mather and working party, 1972; Miyake, 1990; Rodríguez-Roda, date unknown; Suzuki and Ishizuka, 1991; Tiews, 1964

### **Northern bluefin tuna, <f=2>Thunnus thynnus<f=1>, Pacific Ocean**

#### **Brief mention**

Akyüz, 1970; Anonymous, 1953h; Anonymous, 1954k; Anonymous, 1954l; Anonymous, 1955s; Anonymous, 1962g; Anonymous, 1963i; Anonymous, 1964i; Anonymous, 1964k; Anonymous, 1972e; Bayliff and Holland, 1986; Iselin, 1963; Suda, 1966; Yamanaka and staff, 1963; Yamanaka, 1966

#### **Growth**

Anonymous, 1964f; Anonymous, 1964j; Anonymous, 1967a; Anonymous, 1968a; Bayliff, 1991a; Bayliff, 1991b; Bayliff <f=2>et al.<f=1>, 1991; Bayliff and Calkins, 1979; Orange and Fink, 1963; Peterson, 1982; Peterson, 1983; Peterson, 1985; Yamanaka, 1982; Yukinawa and Yabuta, 1967

#### **Interactions**

Bayliff, 1980a; Bayliff, 1980b; Bayliff, 1986; Bayliff, 1987; Bayliff, 1988a; Bayliff, 1989; Bayliff, 1991a; Bayliff, 1991b; Bayliff, 1992a; Bayliff, 1992b; Bayliff and Calkins, 1979; Peterson, 1980

#### **Mortality**

Bayliff, 1980a; Bayliff, 1980b; Bayliff <f=2>et al.<f=1>, 1991; Bayliff and Calkins, 1979; Hanan, 1983a; Peterson, 1980

#### **Movements**

Anonymous, 1956z; Anonymous, 1963e; Anonymous, 1963n; Anonymous, 1964f; Anonymous, 1964j; Anonymous, 1967a; Anonymous, 1968a; Anonymous, 1969a; Anonymous, 1980e; Anonymous, 1985a; Bayliff, 1980a; Bayliff, 1980b; Bayliff, 1983; Bayliff, 1986; Bayliff, 1987; Bayliff, 1988a; Bayliff, 1989; Bayliff, 1991a; Bayliff, 1991b; Bayliff, 1992a; Bayliff, 1992b; Bayliff <f=2>et al.<f=1>, 1991; Bayliff and Calkins, 1979; Bell, 1963; Brock, 1965; Chatwin and Orange, 1960; Clemens, 1966a; Clemens, 1966b; Clemens and Flittner, 1969; Clemens and Roedel, 1964; Flittner, 1966; Frey, 1971; Hanan, 1983a; Hanan, 1983b; Hunter <f=2>et al.<f=1>, 1986; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Joseph and working party, 1969; Landberg, 1966; Mather, 1969; Miyabe and Suzuki, 1989; Orange and Fink, 1963; Peterson, 1980; Peterson, 1981; Peterson, 1982; Peterson, 1983; Peterson, 1984; Shingu <f=2>et al.<f=1>, 1974; Shomura, 1988; Sund <f=2>et al.<f=1>, 1981; Tenneson, 1989; Yamanaka, 1982; Yukinawa and Yabuta, 1967

#### **Sonic or archival tagging**

Konogaya, 1977; Smith and Goodman, 1986

#### **Stock structure**

Anonymous, 1963e; Anonymous, 1969a; Anonymous, 1980e; Bayliff, 1983; Bayliff, 1986; Bayliff, 1987; Bayliff, 1988a; Bayliff, 1989; Bayliff, 1991a; Bayliff, 1991b; Bayliff, 1992a; Bayliff, 1992b; Bayliff <f=2>et al.<f=1>, 1991; Bayliff and Calkins, 1979; Clemens and Flittner, 1969; Hanan, 1983b; Hunter <f=2>et al.<f=1>, 1986; Joseph and working party, 1969; Orange and Fink, 1963; Peterson, 1980; Yamanaka, 1982

### **Longtail tuna, <f=2>Thunnus tonggol<f=1>, Indian Ocean**

#### **Brief mention**

Anonymous, 1991a; Shomura, 1992

### **Longtail tuna, <f=2>Thunnus tonggol<f=1>, Pacific Ocean**

#### **Brief mention**

Anonymous, 1977i; Anonymous, 1983d; Anonymous, 1987h; Anonymous, 1990c; Hassan, 1991; Kailola, 1978; Kearney, 1974; Lewis, 1992a; Lewis, 1992b; Lewis and Hampton, 1992; Matthews and Deguara, 1992; Pepperell, 1990b; Stevens and Church, 1984

### **Atlantic sailfish, <f=2>Istiophorus albicans<f=1>, Atlantic Ocean**

#### Brief mention

Anonymous, 1962a; Anonymous, 1963a; Anonymous, 1964b; Anonymous, 1976a; Beardsley, 1985; Casey <f=2>et al.<f=1>, 1988; Diouf, 1991; Lenarz <f=2>et al.<f=1>, 1972; Mather, 1963a; Miyake, 1990; National Marine Fisheries Service, 1985; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; Prince, 1991

#### Growth

Boggs, 1989; Conser, 1984; Mather, Tabb, Mason, and Clark, 1974; Prince <f=2>et al.<f=1>, 1986; Scott <f=2>et al.<f=1>, 1990

#### Interactions

Mather, Tabb, Mason, and Clark, 1974

#### Mortality

Beardsley <f=2>et al.<f=1>, 1975; Boggs, 1989; Conser, 1984; de Sylva, 1957; Jolley and Irby, 1979; Mather <f=2>et al.<f=1>, 1976; Mather, Tabb, Mason, and Clark, 1974;

#### Movements

Anonymous, 1960j; Anonymous, 1969d; Anonymous, 1977c; Anonymous, 1978d; Beardsley <f=2>et al.<f=1>, 1975; Buchanan <f=2>et al.<f=1>, 1978; Capisano, 1989; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mason and Buchanan, 1979; Mather, 1960; Mather, 1963b; Mather and Bartlett, 1966; Mather and Mason, 1973; Mather <f=2>et al.<f=1>, 1976; Mather, Tabb, Mason and Clark, 1974; Mather and working party, 1972; Scott <f=2>et al.<f=1>, 1991

#### Sonic or archival tagging

Jolley and Irby, 1979; Pepperell and Holland, 1992

#### Stock structure

Mather, Tabb, Mason, and Clark, 1974

### **Indo-Pacific sailfish, <f=2>Istiophorus platypterus<f=1>, Pacific Ocean**

#### Brief mention

Anonymous, 1956e; Anonymous, 1960j; Anonymous, 1964b; Anonymous, 1992l; Gottschalk, 1972; Mather, 1963a; Mather and Bartlett, 1966; Matthews and Deguara, 1992; Pepperell, 1990b; Pepperell, 1992b; Strasburg, 1970

#### Growth

Anonymous, 1990b; Speare and Williams, 1992

#### Movements

Beardsley <f=2>et al.<f=1>, 1975; Squire, 1974; Strasburg, 1969

### **Black marlin, <f=2>Makaira indica<f=1>, Pacific Ocean**

#### Brief mention

Anonymous, 1964b; Anonymous, 1977b; Gottschalk, 1972; Mather, 1963b; Matthews and Deguara, 1992; Pepperell, 1990b; Pepperell, 1992a; Pepperell, 1992b; Strasburg, 1969; Watkins, 1987

#### Growth

Anonymous, 1990b; Speare and Williams, 1992; Squire and Neilson, 1983

#### Movements

Anonymous, 1983a; Anonymous, 1992k; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Pepperell, 1985; Pepperell, 1990a; Shomura, 1988; Squire, 1974; Squire and Neilson, 1983; Strasburg, 1970

#### Stock structure

Pepperell, 1985

### **Indo-Pacific blue marlin, <f=2>Makaira mazara<f=1>, Pacific Ocean**

Brief mention

Gottschalk, 1972; Matthews and Deguara, 1992; Strasburg, 1969

Movements

Joseph <f=2>et al.<f=1>, 1988; Sakagawa, 1988; Squire, 1974

Sonic or archival tagging

Block <f=2>et al.<f=1>, 1992a; Block <f=2>et al.<f=1>, 1992b; Holland <f=2>et al.<f=1>, 1985; Holland <f=2>et al.<f=1>, 1990a; Naughton, 1973; Pepperell and Holland, 1992; Rivas, 1975; Yuen <f=2>et al.<f=1>, 1974

Stock structure

Sakagawa, 1988; Skillman, 1989

**Atlantic blue marlin, <f=2>Makaira nigricans<f=1>, Atlantic Ocean**

Brief mention

Anonymous, 1963a; Anonymous, 1964b; Anonymous, 1966a; Anonymous, 1969d; Casey <f=2>et al.<f=1>, 1988; Mather, 1963b; Mather and Bartlett, 1966; Miyake, 1990; National Marine Fisheries Service, 1986; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; Prince, 1991

Growth

Mather, Mason, and Clark, 1974

Movements

Amon Kothias and Bard, 1985; Anonymous, 1978d; Beardsley, 1985; Buchanan <f=2>et al.<f=1>, 1978; Casey <f=2>et al.<f=1>, 1978; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mason and Buchanan, 1979; Mather <f=2>et al.<f=1>, 1972; Mather <f=2>et al.<f=1>, 1976; Mather, Mason, and Clark, 1974; Mather and working party, 1972; National Marine Fisheries Service, 1985; National Marine Fisheries Service, 1987; Richards, 1988; Rivas, 1975; Sakagawa, 1988; Scott <f=2>et al.<f=1>, 1990; Witzell and Scott, 1990

Stock structure

Mather, Mason, and Clark, 1974; Sakagawa, 1988; Skillman, 1989

**White marlin, <f=2>Tetrapturus albidus<f=1>, Atlantic Ocean**

Brief mention

Anonymous, 1963a; Anonymous, 1964b; Anonymous, 1965a; Anonymous, 1965b; Burnett <f=2>et al.<f=1>, 1977; Casey <f=2>et al.<f=1>, 1988; Earle, 1940; Lenarz <f=2>et al.<f=1>, 1972; Mather, 1963a; Mather, 1963b; Miyake, 1990; National Marine Fisheries Service, 1988; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; Prince, 1991; Wise <f=2>et al.<f=1>, 1971

Growth

Mather, Mason, and Clark, 1974; Scott <f=2>et al.<f=1>, 1990

Mortality

Anonymous, 1972c; Casey <f=2>et al.<f=1>, 1978; Mather, 1960; Mather <f=2>et al.<f=1>, 1972; Mather and Mason, 1973; Mather <f=2>et al.<f=1>, 1972; Mather <f=2>et al.<f=1>, 1976; Mather, Mason, and Clark, 1974; Mather and working party, 1972

Movements

Anonymous, 1960j; Anonymous, 1969d; Anonymous, 1972c; Anonymous, 1972f; Anonymous, 1974b; Anonymous, 1977c; Anonymous, 1978d; Anonymous, 1983a; Beardsley, 1985; Buchanan <f=2>et al.<f=1>, 1978; Casey <f=2>et al.<f=1>, 1978; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mason and Buchanan, 1979; Mather, 1960; Mather, 1967; Mather, 1969; Mather and Bartlett, 1966; Mather <f=2>et al.<f=1>, 1975; Mather <f=2>et al.<f=1>, 1972; Mather and Mason, 1973; Mather <f=2>et al.<f=1>, 1976; Mather, Mason, and Clark, 1974; Mather and working party, 1972; Richards, 1988; Scott <f=2>et al.<f=1>, 1991; Shomura, 1988

Stock structure

Anonymous, 1974b; Mather, 1967; Mather <f=2>et al.<f=1>, 1975; Mather <f=2>et al.<f=1>, 1972; Mather <f=2>et al.<f=1>, 1976; Mather, Mason, and Clark, 1974

**Shortbill spearfish, <f=2>Tetrapturus angustirostris<f=1>, Pacific Ocean**

Brief mention

Strasburg, 1969

**Striped marlin, <f=2>Tetrapturus audax<f=1>, Pacific Ocean**

Brief mention

Anonymous, 1964b; Mather, 1963b; Matthews and Deguara, 1992; Saul, 1977

Effects of tagging

Holts and Bedford, 1990

Growth

Anonymous, 1985a

Interactions

Squire and Au, 1990; Squire and Suzuki, 1990

Movements

Anonymous, 1969d; Anonymous, 1985a; Beardsley, 1985; Clemens, 1966b; Gottschalk, 1972; Howard and Ueyanagi, 1965; Joseph, 1979; Joseph <f=2>et al.<f=1>, 1986; Joseph <f=2>et al.<f=1>, 1988; Mather, 1969; Mather and Bartlett, 1986; Shomura, 1988; Squire, 1974; Squire, 1987; Squire and Au, 1990; Squire and Suzuki, 1990; Strasburg, 1969; Strasburg, 1967; Ueyanagi and Wares, 1975

Sonic or archival tagging

Holts and Bedford, 1990; Pepperell and Holland, 1992

**Longbill spearfish, <f=2>Tetrapturus pfluegeri<f=1>, Atlantic Ocean**

Brief mention

Casey <f=2>et al.<f=1>, 1988

**Swordfish, <f=2>Xiphias gladius<f=1>, Atlantic Ocean**

Brief mention

Anonymous, 1966b; Burnett <f=2>et al.<f=1>, 1977; Caddy and Burnett, 1977; Casey <f=2>et al.<f=1>, 1988; Cayré, 1986; González-Garcés, 1982; González-Garcés, 1985; González-Garcés, 1987; Hurlbert <f=2>et al.<f=1>, 1985; Mather, 1963b; Mather and Bartlett, 1966; National Marine Fisheries Service, 1989; National Marine Fisheries Service, 1990; National Marine Fisheries Service, 1991; National Marine Fisheries Service, 1992; de la Serna, 1992; Tibbo and Beckett, 1973

Growth

Beckett, 1970; Beckett, 1974a; Boggs, 1989; Hurley <f=2>et al.<f=1>, 1983; Iles <f=2>et al.<f=1>, 1981; Palko <f=2>et al.<f=1>, 1981; Restrepo, 1990; Scott <f=2>et al.<f=1>, 1990; Southeast Fisheries Center, 1987; Tibbo and Beckett, 1971

Interactions

Berkeley, 1983; Berkeley, 1989; Farber, 1988; Miyake and Rey, 1989

Movements

Anonymous, 1969c; Beckett, 1979; Beckett, 1974a; Berkeley, 1983; Berkeley, 1989; Burnett and Iles, 1978; Casey <f=2>et al.<f=1>, 1978; Farber, 1988; Hurley, Burnett, and Dickson, 1979; Hurley and Iles, 1980; Hurley and Iles, 1982a; Iles and Burnett, 1977; Iles <f=2>et al.<f=1>, 1980; Iles <f=2>et al.<f=1>, 1981; Mather <f=2>et al.<f=1>, 1976; Mather and working party, 1972; Mejuto, 1991; Miyake and Rey, 1989; Palko <f=2>et al.<f=1>, 1981; Scott <f=2>et al.<f=1>, 1990; Tibbo and Beckett, 1972; Tibbo and Beckett, 1974

Sonic or archival tagging

Bayliff and Holland, 1986; Carey, 1990; Carey and Robison, 1981; Palko <f=2>et al.<f=1>, 1981

## Stock structure

Berkeley, 1983; Berkeley, 1989; Farber, 1988; Mejuto and Hoey, 1991; Miyake and Rey, 1989

### **Swordfish, <f=2>Xiphias gladius<f=1>, Indian Ocean**

## Brief mention

Takahashi <f=2>et al.<f=1>, 1988

### **Swordfish, <f=2>Xiphias gladius<f=1>, Pacific Ocean**

## Brief mention

Matthews and Deguara, 1992; Murray, 1990; Watkins, 1987

## Movements

Anonymous, 1992n

## Sonic or archival tagging

Bayliff and Holland, 1986; Carey, 1983; Carey and Robison, 1981; Holland <f=2>et al.<f=1>, 1985; Palko <f=2>et al.<f=1>, 1981; Pepperell and Holland, 1992

## **Materials and Methods**

## Conventional tags

### Tagging and handling

Akyüz, 1966; Akyüz, 1970; Allain, 1967; Aloncle and Delaporte, 1973b; Aloncle and Delaporte, 1974b; Aloncle <f=2>et al.<f=1>, 1972; Alverson and Chenoweth, 1951; Alverson and Chatwin, 1964; Anonymous, 1933; Anonymous, 1950a; Anonymous, 1950b; Anonymous, 1950c; Anonymous, 1950d; Anonymous, 1950e; Anonymous, 1952a; Anonymous, 1953d; Anonymous, 1953e; Anonymous, 1953f; Anonymous, 1953h; Anonymous, 1954e; Anonymous, 1954h; Anonymous, 1954i; Anonymous, 1954j; Anonymous, 1954m; Anonymous, 1955b; Anonymous, 1955c; Anonymous, 1955k; Anonymous, 1955l; Anonymous, 1955v; Anonymous, 1956a; Anonymous, 1956s; Anonymous, 1956v; Anonymous, 1956x; Anonymous, 1956z; Anonymous, 1956aa; Anonymous, 1957a; Anonymous, 1957c; Anonymous, 1957e; Anonymous, 1957g; Anonymous, 1957h; Anonymous, 1957j; Anonymous, 1957k; Anonymous, 1957o; Anonymous, 1957r; Anonymous, 1957s; Anonymous, 1957t; Anonymous, 1957bb; Anonymous, 1958e; Anonymous, 1958h; Anonymous, 1958j; Anonymous, 1958k; Anonymous, 1958l; Anonymous, 1958s; Anonymous, 1958t; Anonymous, 1958w; Anonymous, 1959g; Anonymous, 1959k; Anonymous, 1960f; Anonymous, 1960h; Anonymous, 1962o; Anonymous, 1963b; Anonymous, 1963h; Anonymous, 1963l; Anonymous, 1964c; Anonymous, 1966c; Anonymous, 1971b; Anonymous, 1971c; Anonymous, 1972f; Anonymous, 1973b; Anonymous, 1977h; Anonymous, 1983b; Anonymous, 1987g; Anonymous, 1988d; Anonymous, 1990b; Anonymous, 1991a; Anonymous, 1992d; Asano, 1991; Baglin <f=2>et al.<f=1>, 1978; Bailey, 1987b; Bard, 1984b; Barrett and Conner, 1962; Barrett and Conner, 1964; Barut and Arce, 1991; Bayliff, 1973; Bayliff and Holland, 1986; Beckett, 1968; Beckett, 1970; Beckett, 1974b; Blunt and Messersmith, 1960; Broadhead, 1959; Burnett <f=2>et al.<f=1>, 1977; Caton, 1991; Clay, 1991; Clemens, 1961; Clemens, 1966a; Clemens and Roedel, 1964; Cort, 1990b; Earle, 1940; Fink, 1965a; Fink, 1965b; Fink and Bayliff, 1970; Foreman, 1987; Godsil, 1936; Godsil, 1938; Habib <f=2>et al.<f=1>, 1979; Hall, 1992; Hampton, 1986; Hampton, 1991b; Hampton and Kirkwood, 1990; Hamre, 1960; Hamre, 1961; Hamre, 1963b; Hassan, 1991; Heldt, 1932; Heldt, 1934; Heldt, 1938; Hue, 1980; Hurley, Burnett, and Dickson, 1979; Hurley, Dickson, and Iles, 1979; Hurley and Iles, 1980; Hurley <f=2>et al.<f=1>, 1983; Hynd, 1969; Hynd <f=2>et al.<f=1>, 1967; Ichikawa, 1981; Ishida, 1989; Itano, 1991; Itano, 1992; Iversen and Yoshida, 1957; Jakobsson, 1970; Kailola, 1978; Kasahara <f=2>et al.<f=1>, 1971; Kask, 1966; Kawasaki, 1965; Kearney, 1974; Kearney, 1977b; Kearney, 1983; Kearney, 1992; Kearney and Gillett, 1982; Kearney and Hallier, 1978a; Kearney and Hallier, 1980a; Kearney and Lewis, 1978; Kearney, Lewis, and Smith, 1972; Kleiber <f=2>et al.<f=1>, 1983b; Kleiber <f=2>et al.<f=1>, 1987; Kume, 1981b; Laurs <f=2>et al.<f=1>, 1976; Laurs and Wetherall, 1981; Lenarz <f=2>et al.<f=1>, 1972; Lenarz <f=2>et al.<f=1>, 1973b; Letaconnoux, 1963; Letaconnoux, 1971; Lewis, 1977b; Lewis, 1980a; Lewis, 1980b; Lewis, 1989; Lewis, 1991; Lewis <f=2>et al.<f=1>, no date; Lucas, 1974; Majkowski, 1982a; Majkowski



and Murphy, 1983; Marr, 1963a; Marr, 1963b; Mason <f=2>et al.<f=1>, 1977; Mather, 1960; Mather, 1963a; Mather and Mason, 1973; Mather and Mason, 1976; Mather <f=2>et al.<f=1>, 1976; Mather, Tabb, Mason, and Clark, 1974; Mather and working party, 1969; Mather and working party, 1972; Matthews and Deguara, 1992; McFarlane <f=2>et al.<f=1>, 1990; Meyer-Waarden, 1959; Miyake, 1990; Murray, 1990; Naamin, 1991; Nakamura, 1987; National Marine Fisheries Service, 1974; Otsu, 1970; Partlo, 1951; Pepperell, 1985; Pepperell, 1990a; Pepperell, 1990b; Pepperell, 1992a; Pepperell, 1992b; Peterson, 1970; Peterson, 1971; Peterson, 1973; Porter and Hogans, 1992; Powell, 1950; Powell <f=2>et al.<f=1>, 1952; Rey, 1978; Rey and Cort, 1979; Rinaldo, Evans, and Vergne, 1981; Robins, 1960; Rochepeau, 1991b; Rodríguez-Roda, 1959; Rodríguez-Roda, 1963; Rodríguez-Roda, 1964a; Rodríguez-Roda, 1964b; Rodríguez-Roda, 1964c; Rodríguez-Roda, 1966a; Santos Guerra and Torres Nuñez, 1981; Santos and Torres, 1983; Scagel, 1949; Schaefer, 1957a; Schaefer, 1958; Schaefer, 1959; Schaefer, 1961; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, 1952; Scott <f=2>et al.<f=1>, 1990; de la Serna, 1992; Shiohama, 1990; Shomura, 1987; Sitan, 1989b; Speare and Williams, 1992; Squire, 1974; Squire, 1987; Squire and Neilson, 1983; Thomson, 1962; Tibbo and Beckett, 1972; Tibbo and Beckett, 1974; Van Campen and Murphy, 1957; Waheed, 1991; Westman and Neville, 1942; Whitelaw and Hearn, 1991; Whitelaw <f=2>et al.<f=1>, 1992; Williams, 1980; Williams, 1983; Williams, 1992; Williams and Diplock, 1989; Wilson, 1953; Yamashita and Waldron, 1958; Yamashita and Waldron, 1959; Yano, 1991; Yonemori <f=2>et al.<f=1>, 1985; Yesaki and Waheed, 1991; Yesaki and Waheed, 1992

#### Recovering the tags

Aloncle and Delaporte, 1970; Aloncle and Delaporte, 1974a; Anonymous, 1953a; Anonymous, 1963m; Anonymous, 1964k; Anonymous, 1972f; Anonymous, 1973a; Anonymous, 1974a; Anonymous, 1976c; Anonymous, 1977g; Anonymous, 1978d; Anonymous, 1982c; Anonymous, 1983d; Anonymous, 1983e; Anonymous, 1986c; Anonymous, 1986n; Anonymous, 1988a; Anonymous, 1988d; Anonymous, 1991a; Anonymous, 1992o; Ariz <f=2>et al.<f=1>, 1991; Bailey, 1987b; Bard, 1984b; Bard <f=2>et al.<f=1>, 1983; Barut and Arce, 1991; Bayliff and Holland, 1986; Beardsell, 1987; Blunt and Messersmith, 1960; Broadhead, 1959; Caton, 1987; Caton, 1991; Clemens, 1961; Clemens and Roedel, 1964; Cort, 1990b; Eckert and Majkowski, 1987; Godsil, 1938; Habib, Clement, Iwasa, Swanson, and Bailey, 1982; Habib <f=2>et al.<f=1>, 1981; Hearn, 1989; Hearn and Majkowski, 1987a; Hilborn, 1988; Iselin, 1963; Ishida, 1989; Itano, 1992; Kearney, 1983; Kearney, 1992; Kleiber <f=2>et al.<f=1>, 1987; Kleiber, Chivers, and Weber, 1984; Labelle, 1992; Lenarz and Zweifel, 1979; Lewis, 1977b; Lewis, 1980b; Lewis, 1989; Lewis, 1991; Majkowski, 1982a; Majkowski <f=2>et al.<f=1>, 1984; Majkowski <f=2>et al.<f=1>, 1988; Mather, 1963a; Mather and working party, 1972; Miyake, 1990; Miyake and Symons, 1983; Murray, 1987; Naamin, 1991; Otsu, 1970; Pepperell, 1992b; Rodríguez-Roda, 1964c; Schaefer, 1958; Schaefer, 1962; Schaefer <f=2>et al.<f=1>, 1961; Schaefer, Chatwin, and Broadhead, 1963; Scott <f=2>et al.<f=1>, 1990; Shiohama, 1990; Shomura, 1987; Sitan, 1989b; Watkins, 1987; Whitelaw and Hearn, 1991; Whitelaw <f=2>et al.<f=1>, 1992; Williams, 1980; Yamaguchi and Kikawa, 1982; Yamashita and Waldron, 1959; Yonemori <f=2>et al.<f=1>, 1985

#### Handling the recapture data

Bayliff and Holland, 1986; Caton, 1991; Clay, 1991; Honma and Yonemori, 1985; Kleiber and Maynard, 1982; Lewis, 1989; Majkowski, 1982a; Miyake, 1990; Miyake and Symons, 1983; Rochepeau, 1991b; Scott <f=2>et al.<f=1>, 1990; Sitan, 1989b

#### Sonic or archival tagging

Anonymous, 1968c; Anonymous, 1983l; Bass and Rascovich, 1965; Bayliff and Holland, 1986; Brill <f=2>et al.<f=1>, 1984; Butler and Pincock, 1978; Carey <f=2>et al.<f=1>, 1984; Carey and Lawson, 1973; Carey and Olson, 1982; Carey and Robison, 1981; Cayré, 1991a; Cayré, 1991b; Cayré and Chabanne, 1986; Cayré, Chabanne, Moarii, and Ugolini, 1986; Davis and Gunn, 1992a; Davis and Gunn, 1992b; Holland <f=2>et al.<f=1>, 1985; Holland <f=2>et al.<f=1>, 1990b; Jolley and Irby, 1979; Kanwisher <f=2>et al.<f=1>, 1974; Laurs <f=2>et al.<f=1>, 1977; Porter and Hogans, 1992; Yuen, 1970; Yuen <f=2>et al.<f=1>, 1974

### **Design of tagging experiments**

Hampton, 1989a; Wetherall and Yong, 1981



APPENDIX. List of suppliers of tagging materials

External tags (non-electronic)

Floy Tag and Manufacturing, Inc.  
4616 Union Bay Place NE  
Seattle, Washington 98105, U.S.A  
Telephone: (206) 524-2700 Fax: (206) 524-8260

Hallprint Pty, Ltd.  
27 Jacobsen Crescent  
Holden Hill, South Australia 5088, Australia  
Telephone: (8) 261 0312 Fax: +61 8 266 3816

External tags (electronic)

Custom Telemetry and Consulting  
1050 Industrial Drive  
Watkinsville, Georgia 30677, U.S.A.  
Telephone: (404) 769-4024 Fax: (404) 769-4026

Lotek Engineering, Inc.  
34 Berczy Street  
Aurora, Ontario, Canada L4G 4J9  
Telephone: (416) 727-0181 Fax: (416) 727-0764

Sonotronics  
1130 East Pennsylvania, Suite 505  
Tucson, Arizona 85714, U.S.A.  
Telephone: (602) 746-3322 Fax: (602) 294-2040

Vemco  
3895 Shad Bay  
Rural Route No. 4 Arndale  
Halifax County  
Nova Scotia, Canada B3L 4J4  
Telephone: (902) 852-3047 Fax: (902) 852-4000

Zelcon Technic Pty. Ltd.  
Technopark  
Glenorchy, Tasmania 7010, Australia  
Telephone: [61]-(0)02-71-8120 Fax: [61]-(0)02-72-0768

Nylon tag heads

Riverside Molded Products  
4213 Hanger Road  
Riverside, California 92509, U.S.A.  
Telephone: (714) 784-1140 Fax: (714) 784-2913

Steel tubing (for making applicators for dart tags)

Century Tubes, Inc.  
7910 Dunbrook Road

San Diego, California 92126, U.S.A.  
Telephone: (619) 586-0550 Fax: (619) 586-0522

Vinyl ink (for marking cradle covers, <f=32>etc.<f=30>)

Lee Mark Company  
635 Marina Vista  
Martinez, California 94553, U.S.A.  
Telephone: (510) 229-0554 Fax: (510) 229-1971

Tetracycline

Anchor Laboratories, Inc.  
2621 North Belt Highway  
St. Joseph, Missouri 64506-2002, U.S.A.  
Telephone: (816) 233-1385 Fax: (816) 233-4767

Phizer Agricare  
32-42 Wharf Road  
West Ryde, Australia  
Telephone: [61]-(0)2-858-9444 Fax: [61]-(0)2-858-1347

Syringes (for injecting tetracycline)

Manostat  
519 Eighth Avenue  
New York, New York 10018, U.S.A.  
Telephone: (212) 594-6262 Fax: (212) 629-0483

Extend-O-Jector (device for injecting tetracycline into large, active fish from a distance (see Foreman, 1987))

Kay Research Products  
Hyde Park Bank Building, Suite 103  
1525 East 53rd Street  
Chicago, Illinois 60605, U.S.A  
Telephone: (312) 643-9044