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

compiled by—compilado por

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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.

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INDEX

Wahoo, *Acanthocybium solandri*, Atlantic Ocean

Brief mention

Burnett *et al.*, 1977

Wahoo, *Acanthocybium solandri*, Pacific Ocean

Brief mention

Strasburg, 1969; Uchiyama, 1980

Bullet or frigate tuna, *Auxis* sp., Atlantic Ocean

Movements

Bard *et al.*, 1988

Bullet or frigate tuna, *Auxis* sp., Indian Ocean

Brief mention

Anonymous, 1988d

Bullet or frigate tuna, *Auxis* sp., Pacific Ocean

Movements

Hamada *et al.*, 1973; Hamada *et al.*, 1974; Morita, 1972; Uchida, 1980; Uchida, 1981; Yamashige, 1974

Kawakawa, *Euthynnus affinis*, Indian Ocean

Brief mention

Anonymous, 1988d

Kawakawa, *Euthynnus affinis*, Pacific Ocean

Growth

Hassan, 1991

Movements

Hassan, 1991

Sonic or archival tagging

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

Spotted tunny, *Euthynnus alletteratus*, Atlantic Ocean

Growth

Diouf, 1983

Movements

Bard *et al.*, 1988; Diouf, 1983; Rey and Cort, 1981a; Rey and Cort, 1981b

Black skipjack tuna, *Euthynnus lineatus*, Pacific Ocean

Growth

Peterson, 1983

Movements

Joseph *et al.*, 1986; Joseph *et al.*, 1988; Muhlia-Melo, 1980a; Muhlia-Melo, 1980b; Peterson, 1980; Peterson, 1983

Shark mackerel, *Grammatorcynus bicarinatus*, Pacific Ocean

Brief mention

Matthews and Deguara, 1992

Dogtooth tuna, *Gymnosarda unicolor*, Pacific Ocean

Brief mention

Matthews and Deguara, 1992

Skipjack tuna, *Katsuwonus pelamis*, Atlantic Ocean

Growth

Anonymous, 1977c; Anonymous, 1986f; Antoine and Mendoza, 1986; Bard, 1984b; Bard and Amon Kothias, 1986b; Bard and Antoine, 1986; Cayré *et al.*, 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 *et al.*, 1983; Cayré, Diouf, Fonteneau, and Santa-Rita de Viera, 1986; Fonteneau, 1973; Hunter *et al.*, 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 *et al.*, 1988; Bard *et al.*, 1983; Cayré, Diouf, Fonteneau, and Santa-Rita de Viera, 1986; Cayré, Fonteneau, and Diouf, 1986; Delgado Molina *et al.*, 1987; Fonteneau, 1973; Gong and Lee, 1983; Hunter *et al.*, 1986; Joseph *et al.*, 1986; Joseph *et al.*, 1988; Mather and Bartlett, 1966; Mather and working party, 1972; Miyabe and Bard, 1986; Miyake, 1990; Pianet, 1983; Santana *et al.*, 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 *et al.*, 1986; Lévenez, 1982; Miyake, 1990

Stock structure

Anonymous, 1977c; Anonymous, 1986f; Bard and Amon Kothias, 1986b; Bard *et al.*, 1988; Cayré, Fonteneau, and Diouf, 1986; Fonteneau, 1973; Miyabe and Bard, 1986; Miyake, 1990

Skipjack tuna, *Katsuwonus pelamis*, Indian Ocean

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, *Katsuwonus pelamis*, Pacific Ocean

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 *et al.*, 1986; Bayliff, 1988b; Brock and Marr, 1960; Clemens and Roedel, 1964; Ellway *et al.*, 1983; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1988; Forsbergh, 1989; Fujino, 1972; Gillett and Kearney, 1983; Habib *et al.*, 1980b; Habib and Voss, 1980; Iwasa *et al.*, 1982; Joseph and Calkins, 1969; Joseph and working party, 1969; Josse *et al.*, 1979; Kearney, 1975; Kearney, 1977a; Kearney, 1978a; Kearney, 1982b; Kearney, 1983; Kearney, 1986; Kleiber *et al.*, 1983a; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lawson *et al.*, 1984; Lewis, 1991; Matsumoto *et al.*, 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 *et al.*, 1961; Sharp, 1983; Shomura, 1966; Sibert *et al.*, 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 *et al.*, 1983; Fink and Bayliff, 1970; Gillett and Kearney, 1983; Habib *et al.*, 1979; Habib *et al.*, 1980a; Habib *et al.*, 1980b; Habib *et al.*, 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, 1964l; 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 *et al.*, 1983; Fink, 1965a; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1987; Gillett and Kearney, 1983; Hunter *et al.*, 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 *et al.*, 1983a; Kleiber *et al.*, 1983b; Kleiber *et al.*, 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 *et al.*, 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 *et al.*, 1961; Schaefer, Chatwin, and Broadhead, 1963; Sibert, 1984; Tauchi, 1943

Movements

Anonymous, 1955j; Anonymous, 1955p; Anonymous, 1955q; Anonymous, 1956h; Anonymous, 1956l; 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, 1964l; 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 *et al.*, 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 *et al.*, 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 *et al.*, 1979; Habib, Clement, and Iwasa, 1982; Habib *et al.*, 1980a; Habib *et al.*, 1980b; Habib *et al.*, 1981; Habib and Voss, 1980; Hilborn, 1987; Hilborn, 1989; Hilborn, 1990; Hilborn and Sibert, 1988; Hunter *et al.*, 1986; Instituto Nacional de Pesca, 1980; Iwasa *et al.*, 1982; Joseph, 1979; Joseph *et al.*, 1964; Joseph *et al.*, 1986; Joseph *et al.*, 1988; Joseph and working party, 1969; Josse *et al.*, 1979; Kasahara, 1968; Kasahara *et al.*, 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 *et al.*, 1983a; Kleiber *et al.*, 1983b; Kleiber *et al.*, 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 *et al.*, 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 *et al.*, 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 *et al.*, 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 *et al.*, 1985

Physiology

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

Schooling

Anonymous, 1960g; Bayliff, 1987; Bayliff, 1988c; Hilborn, 1991; Hunter *et al.*, 1986; Peterson, 1984

Shedding of tags

Anonymous, 1964l; Anonymous, 1991a; Barrett, 1965; Kleiber *et al.*, 1983b; Kleiber *et al.*, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber, Chiver, and Weber, 1984

Sonic or archival tagging

Anonymous, 1969b; Anonymous, 1969g; Anonymous, 1976b; Cayré and Chabanne, 1986; Cayré, Chabanne, Moarii, and Ugolini, 1986; Dizon *et al.*, 1978; Evans, 1981; Holland *et al.*, 1985; Hunter *et al.*, 1986; Kitchell, 1980; Matsumoto *et al.*, 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 *et al.*, 1986; Asano, 1991; Bayliff, 1983; Bayliff, 1984; Bayliff, 1988b; Brock and Marr, 1960; Caton, 1980; Ellway *et al.*, 1983; Forsbergh, 1980a; Forsbergh, 1980b; Forsbergh, 1988; Fujino, 1967; Fujino, 1972; Ganaden, 1987; Gillett and Kearney, 1983; Hunter *et al.*, 1986; Joseph, 1973; Joseph *et al.*, 1964; Joseph and working party, 1969; Kasahara, 1968; Kearney, 1975; Kearney, 1982b; Kearney, 1983; Kearney, 1986; Kleiber

et al., 1983b; Kleiber *et al.*, 1987; Kleiber, Argue, Sibert, and Hammond, 1984; Kleiber and Kearney, 1983; Lawson and Kearney, 1982; Lewis, 1991; Marr, 1963a; Matsumoto, 1975; Matsumoto *et al.*, 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, *Sarda sp.*, Atlantic Ocean

Growth

Rey and Cort, 1978

Movements

Demir, 1963; Rey *et al.*, 1984; Rey and Cort, 1978; Rey and Cort, 1981a; Rey and Cort, 1981b

Bonito, *Sarda sp.*, Pacific Ocean

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, *Thunnus alalunga*, Atlantic Ocean

Growth

Aloncle *et al.*, 1978; Anonymous, 1992c; Cort and Mejuto, 1990; Scott *et al.*, 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 *et al.*, 1972; Aloncle *et al.*, 1976; Aloncle *et al.*, 1977; Aloncle *et al.*, 1978; Anonymous, 1977c; Anonymous, 1977f; Anonymous, 1979e; Anonymous, 1980f; Cort, 1982b; Cort and de la Serna, 1991; Cort and Mejuto, 1990; Cort *et al.*, 1992; Delaporte and Guérault, 1980; González-Gárces, 1985; Hue, 1980; Joseph *et al.*, 1986; Joseph *et al.*, 1988; Le Gall, 1974; Letaconnoux, 1963; Letaconnoux, 1972; Letaconnoux, 1973; Letaconnoux, 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 *et al.*, 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; Letaconnoux, 1973; Mather and Mason, 1973

Albacore tuna, *Thunnus alalunga*, Indian Ocean

Brief mention

Takahashi *et al.*, 1988

Albacore tuna, *Thunnus alalunga*, Pacific Ocean

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 *et al.*, 1986; Joseph and working party, 1969; Labelle, 1992; Laurs, 1983; Laurs *et al.*, 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; Gansle and Clemens, 1953; Graham, 1956; Hunter *et al.*, 1986; Joseph, 1979; Joseph *et al.*, 1986; Joseph *et al.*, 1988; Joseph and working party, 1969; Kikawa *et al.*, 1977; Labelle, 1992; Landberg, 1966; Laurs, 1983; Laurs and Lynn, 1977; Laurs and Lynn, 1991; Marr, 1963a; Mather, 1969; McGary *et al.*, 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 *et al.*, 1981; Ueyanagi, 1980; Van Campen and Murphy, 1957; Yoshida and Otsu, 1963

Shedding of tags

Clemens, 1961; Laurs *et al.*, 1976

Sonic or archival tagging

Anonymous, 1982a; Evans, 1981; Holland *et al.*, 1985; Holts, 1985; Hunter *et al.*, 1986; Laurs, 1972; Laurs *et al.*, 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 *et al.*, 1986; Joseph and working party, 1969; Laurs, 1983; Laurs and Lynn, 1977; Laurs and Lynn, 1991; McGary *et al.*, 1961; Otsu, 1960; Otsu and Uchida, 1962; Otsu and Uchida, 1963; Rothschild and Yong, 1970; Shomura, 1988; Suda, 1962; Suda, 1963; Sund *et al.*, 1981; Yoshida and Otsu, 1963

Yellowfin tuna, *Thunnus albacares*, Atlantic Ocean

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 *et al.*, 1991; Capisano and Fonteneau, 1991; Cayré *et al.*, 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 *et al.*, 1988; Bard and Scott, 1989; Bard and Scott, 1991; Bard and Scott, 1992; Beckett, 1970; Browder *et al.*, 1991; Cayré *et al.*, 1974; Fonteneau, 1973; Fonteneau, 1981; Fonteneau, 1982; Fonteneau, 1992a; Gong and Lee, 1983; Hilborn and Sibert, 1988; Joseph *et al.*, 1986; Joseph *et al.*, 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 *et al.*, 1988; Bard and Scott, 1989; Bard and Scott, 1991; Bard and Scott, 1992; Cayré *et al.*, 1974; Fonteneau, 1973; Fonteneau, 1981; Fonteneau, 1982; Fonteneau, 1992a; Miyake, 1990

Yellowfin tuna, *Thunnus albacares*, Indian Ocean

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, *Thunnus albacares*, Pacific Ocean

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 *et al.*, 1961; Suzuki, 1971; Ward and Caton, 1992; Wild and Foreman, 1980; Yabuta and Yukinawa, 1959; Yabuta *et al.*, 1960

Interactions

Anonymous, 1957aa; Anonymous, 1980e; Bayliff, 1979; Bayliff, 1983; Bayliff, 1984; Bayliff and Rothschild, 1974; Deriso *et al.*, 1991; Fink and Bayliff, 1970; Gunn *et al.*, 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 *et al.*, 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 *et al.*, 1991; Fink, 1966; Fink and Bayliff, 1970; Frey, 1971; Hilborn, 1987; Hilborn and Sibert, 1988; Hunter *et al.*, 1986; Instituto Nacional de Pesca, 1980; Ishii, 1978; Ishii, 1979; Itano, 1992; Itano and Williams, 1992; Iversen and Yoshida, 1957; Joseph *et al.*, 1964; Joseph *et al.*, 1986; Joseph *et al.*, 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 *et al.*, 1961; Schaefer, Chatwin, and Broadhead, 1963; Shomura, 1988; Sibert, 1986; Sund *et al.*, 1981; Suzuki *et al.*, 1978; Tenneson, 1989; Watkins, 1987; Yonemori *et al.*, 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 Mobernd, 1972; Chapman *et al.*, 1965; Ishii, 1979; Itano, 1992; Peterson, 1966; Peterson, 1971; Peterson, 1972

Sonic or archival tagging

Anonymous, 1968c; Anonymous, 1981j; Anonymous, 1983l; Anonymous, 1984a; Brill *et al.*, 1984; Carey and Olson, 1982; Cayré and Chabanne, 1986; Cayré, Chabanne, Moarii, and Ugolini, 1986; Holland *et al.*, 1985; Holland *et al.*, 1990b; Hunter *et al.*, 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 *et al.*, 1992; Hunter *et al.*, 1986; Ishii, 1978; Joseph, 1973; Joseph *et al.*, 1964; Joseph and working party, 1969; Lewis, 1991; Marr, 1963a; Schaefer, 1957b; Schaefer, 1967; Schaefer, Broadhead, and Orange, 1963; Suzuki *et al.*, 1978

Blackfin tuna, *Thunnus atlanticus*, Atlantic Ocean

Movements

Mather and working party, 1972

Southern bluefin tuna, *Thunnus maccoyii*

Abundance

Majkowski, 1982b; Majkowski *et al.*, 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 *et al.*, 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 *et al.*, 1992; Williams, 1980; Yukinawa, 1970

Interactions

Caton *et al.*, 1990; Hampton, 1989b; Hearn, 1989; Hearn and Majkowski, 1987b; Majkowski *et al.*, 1988; Polacheck, 1992; Robins, 1966

Mortality

Anonymous, 1980e; Caton, 1991; Caton *et al.*, 1990; Eckert and Majkowski, 1987; Hampton, 1989b; Hampton, 1991b; Hearn, 1989; Hearn *et al.*, 1987; Hynd, 1965; Hynd, 1973; Hynd *et al.*, 1968; Hynd and Lucas, 1974; Kesteven, 1964; Lucas, 1974; Majkowski, 1982b; Majkowski *et al.*, 1984; Majkowski *et al.*, 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 *et al.*, 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 *et al.*, 1986; Joseph *et al.*, 1988; Kesteven, 1964; Leyendekkers, 1964; Lucas, 1974; Maclean, 1974; Majkowski *et al.*, 1988; Majkowski and Murphy, 1983; Mather, 1969; Murphy, 1977; Murphy and Majkowski, 1981; Murphy *et al.*, 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 *et al.*, 1981; Ward and Caton, 1992; Whitelaw and Hearn, 1991; Whitelaw *et al.*, 1992; Williams, 1980; Williams, 1983; Williams, 1992

Recruitment

Whitelaw *et al.*, 1992

Shedding of tags

Caton, 1991; Eckert and Majkowski, 1987; Hampton, 1989b; Hampton and Kirkwood, 1990; Hearn, 1989; Hearn *et al.*, 1991; Hynd, 1965; Hynd, 1969; Hynd *et al.*, 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, *Thunnus obesus*, Atlantic Ocean

Growth

Anonymous, 1978d; Cayré *et al.*, 1988; Cayré and Diouf, 1984; Gong and Lee, 1983; Miyabe, 1984; Miyake, 1990

Movements

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

Sonic or archival tagging

Anonymous, 1982d

Stock structure

Bard *et al.*, 1988; Miyake, 1990;

Bigeye tuna, *Thunnus obesus*, Indian Ocean

Growth

Cayré and Ramcharrun, 1991

Movements

Cayré and Ramcharrun, 1991; Yano, 1991

Bigeye tuna, *Thunnus obesus*, Pacific Ocean

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 *et al.*, 1986; Joseph *et al.*, 1988; Joseph and working party, 1969; Kume, 1967; Otsu and Uchida, 1956; Shomura, 1988; Sund *et al.*, 1981

Sonic or archival tagging

Anonymous, 1981i; Anonymous, 1983l; Bushnell and Holland, 1989; Holland *et al.*, 1990b; Holland *et al.*, 1992; Hunter *et al.*, 1986; Pepperell and Holland, 1992; Suzuki, 1984; Suzuki, 1988; Suzuki and Kume, 1982; Tenneson, 1989

Northern bluefin tuna, *Thunnus thynnus*, Atlantic Ocean

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 *et al.*, 1990; Suzuki and Ishizuka, 1991; Tiews, 1963; Turner *et al.*, 1991

Mortality

Anonymous, 1968f; Anonymous, 1975c; Anonymous, 1980f; Butler, 1971; Butler, 1982; Casey *et al.*, 1978; Clay, 1991; Cort and Rey, 1985; Doi *et al.*, 1985; Farber, 1980; Fee, 1991; Mason, 1975; Mather *et al.*, 1973; Mather, Rothschild, Paulik, and Lenarz, 1974; Mather and working party, 1972; Miyabe, 1983; Miyake, 1990; Powers *et al.*, 1983; Rodriguez-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 *et al.*, 1978; Beardsley, 1985; Beckett, 1970; Brêthes, 1978; Brêthes, 1979; Brêthes and Mason, 1979; Brown and Parrack, 1985; Brunenmeister, 1980; Burnett *et al.*, 1979; Burnett and Iles, 1978; Bushnell and Holland, 1989; Butler, 1971; Butler, 1982; Caddy and Beckett, 1975; Caddy and Burnett, 1976; Carey *et al.*, 1971; Casey *et al.*, 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 *et al.*, 1970; Heldt, 1927a; Heldt, 1927b; Heldt, 1929; Heldt, 1930; Heldt, 1931; Heldt, 1932; Heldt, 1934; Heldt, 1937; Heldt, 1938; Hunter *et al.*, 1986; Hurley, Burnett, and Dickson, 1979; Hurley and Iles, 1980; Hurley and Iles, 1982a; Hurley and Iles, 1982b; Hurley *et al.*, 1983; Iles and Burnett, 1977; Iles *et al.*, 1980; Iles *et al.*, 1981; Jakobsson, 1970; Joseph, 1979; Joseph *et al.*, 1986; Joseph *et al.*, 1988; Lamboeuf, 1973; Lamboeuf, 1975; Letaconnoux, 1971; Marr, 1963a; Mason, 1975; Mason *et al.*, 1977; Mather, 1960; Mather, 1962; Mather, 1963b; Mather, 1964; Mather, 1969; Mather, 1980b; Mather and Bartlett, 1962; Mather and Bartlett, 1966; Mather *et al.*, 1967; Mather and Mason, 1973; Mather and Mason, 1976; Mather, Mason, and Jones, 1974; Mather *et al.*, 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 *et al.*, 1990; Sella, 1926a; Sella, 1929; Sella, 1930; Suzuki and Ishizuka, 1991; Tesch, 1980; Tibbo and Beckett, 1971; Tiews, 1963; Tiews, 1964; Tyler *et al.*, 1979; Westman and Neville, 1942; Wilson, 1965

Recruitment

Miyabe, 1983

Schooling

Fee, 1991; Turner, 1986

Shedding of tags

Anonymous, 1973b; Baglin *et al.*, 1980a; Baglin *et al.*, 1980b; Baglin *et al.*, 1978; Farber, 1980; Hurley, Dickson, and Iles, 1979; Hurley and Iles, 1980; Lenarz *et al.*, 1973a; Lenarz *et al.*, 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 *et al.*, 1984; Carey and Lawson, 1973; Carey *et al.*, 1971; Hunter *et al.*, 1986; Hurley, Dickson, and Iles, 1979; Kanwisher *et al.*, 1974; Porter and Hogans, 1992; Stevens *et al.*, 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 *et al.*, 1978; Clay, 1991; Cort and Rey, 1983; Hunter *et al.*, 1986; Mather, 1980b; Mather, Mason, and Jones, 1974; Mather and working party, 1972; Miyake, 1990; Rodriguez-Roda, date unknown; Suzuki and Ishizuka, 1991; Tiews, 1964

Northern bluefin tuna, *Thunnus thynnus*, Pacific Ocean

Growth

Anonymous, 1964f; Anonymous, 1964j; Anonymous, 1967a; Anonymous, 1968a; Bayliff, 1991a; Bayliff, 1991b; Bayliff *et al.*, 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 *et al.*, 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 *et al.*, 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 *et al.*, 1986; Joseph, 1979; Joseph *et al.*, 1986; Joseph *et al.*, 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 *et al.*, 1974; Shomura, 1988; Sund *et al.*, 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 *et al.*, 1991; Bayliff and Calkins, 1979; Clemens and Flittner, 1969; Hanan, 1983b; Hunter *et al.*, 1986; Joseph and working party, 1969; Orange and Fink, 1963; Peterson, 1980; Yamanaka, 1982

Longtail tuna, *Thunnus tonggol*, Indian Ocean

Brief mention

Anonymous, 1991a; Shomura, 1992

Longtail tuna, *Thunnus tonggol*, 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, *Istiophorus albicans*, Atlantic Ocean

Growth

Boggs, 1989; Conser, 1984; Mather, Tabb, Mason, and Clark, 1974; Prince *et al.*, 1986; Scott *et al.*, 1990

Interactions

Mather, Tabb, Mason, and Clark, 1974

Mortality

Beardsley *et al.*, 1975; Boggs, 1989; Conser, 1984; de Sylva, 1957; Jolley and Irby, 1979; Mather *et al.*, 1976; Mather, Tabb, Mason, and Clark, 1974;

Movements

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

Sonic or archival tagging

Jolley and Irby, 1979; Pepperell and Holland, 1992

Stock structure

Mather, Tabb, Mason, and Clark, 1974

Indo-Pacific sailfish, *Istiophorus platypterus*, Pacific Ocean

Growth

Anonymous, 1990b; Speare and Williams, 1992

Movements

Beardsley *et al.*, 1975; Squire, 1974; Strasburg, 1969

Black marlin, *Makaira indica*, Pacific Ocean

Growth

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

Movements

Anonymous, 1983a; Anonymous, 1992k; Joseph, 1979; Joseph *et al.*, 1986; Joseph *et al.*, 1988; Pepperell, 1985; Pepperell, 1990a; Shomura, 1988; Squire, 1974; Squire and Neilson, 1983; Strasburg, 1970

Stock structure

Pepperell, 1985

Indo-Pacific blue marlin, *Makaira mazara*, Pacific Ocean

Movements

Joseph *et al.*, 1988; Sakagawa, 1988; Squire, 1974

Sonic or archival tagging

Block *et al.*, 1992a; Block *et al.*, 1992b; Holland *et al.*, 1985; Holland *et al.*, 1990a; Naughton, 1973; Pepperell and Holland, 1992; Rivas, 1975; Yuen *et al.*, 1974

Stock structure

Sakagawa, 1988; Skillman, 1989

Atlantic blue marlin, *Makaira nigricans*, Atlantic Ocean

Growth

Mather, Mason, and Clark, 1974

Movements

Amon Kothias and Bard, 1985; Anonymous, 1978d; Beardsley, 1985; Buchanan *et al.*, 1978; Casey *et al.*, 1978; Joseph, 1979; Joseph *et al.*, 1986; Joseph *et al.*, 1988; Mason and Buchanan, 1979; Mather *et*

al., 1972; Mather *et al.*, 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 *et al.*, 1990; Witzell and Scott, 1990

Stock structure

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

White marlin, *Tetrapturus albidus*, Atlantic Ocean

Growth

Mather, Mason, and Clark, 1974; Scott *et al.*, 1990

Mortality

Anonymous, 1972c; Casey *et al.*, 1978; Mather, 1960; Mather *et al.*, 1972; Mather and Mason, 1973; Mather *et al.*, 1972; Mather *et al.*, 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 *et al.*, 1978; Casey *et al.*, 1978; Joseph, 1979; Joseph *et al.*, 1986; Joseph *et al.*, 1988; Mason and Buchanan, 1979; Mather, 1960; Mather, 1967; Mather, 1969; Mather and Bartlett, 1966; Mather *et al.*, 1975; Mather *et al.*, 1972; Mather and Mason, 1973; Mather *et al.*, 1976; Mather, Mason, and Clark, 1974; Mather and working party, 1972; Richards, 1988; Scott *et al.*, 1991; Shomura, 1988

Stock structure

Anonymous, 1974b; Mather, 1967; Mather *et al.*, 1975; Mather *et al.*, 1972; Mather *et al.*, 1976; Mather, Mason, and Clark, 1974

Shortbill spearfish, *Tetrapturus angustirostris*, Pacific Ocean

Brief mention

Strasburg, 1969

Striped marlin, *Tetrapturus audax*, Pacific Ocean

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 *et al.*, 1986; Joseph *et al.*, 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, *Tetrapturus pfluegeri*, Atlantic Ocean

Brief mention

Casey *et al.*, 1988

Swordfish, *Xiphias gladius*, Atlantic Ocean

Growth

Beckett, 1970; Beckett, 1974a; Boggs, 1989; Hurley *et al.*, 1983; Iles *et al.*, 1981; Palko *et al.*, 1981; Restrepo, 1990; Scott *et al.*, 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 *et al.*, 1978; Farber, 1988; Hurley, Burnett, and Dickson, 1979; Hurley and Iles, 1980; Hurley and Iles, 1982a; Iles and Burnett, 1977; Iles *et al.*, 1980; Iles *et al.*, 1981; Mather *et al.*, 1976; Mather and working party, 1972; Mejuto, 1991; Miyake and Rey, 1989; Palko *et al.*, 1981; Scott *et al.*, 1990; Tibbo and Beckett, 1972; Tibbo and Beckett, 1974

Sonic or archival tagging

Bayliff and Holland, 1986; Carey, 1990; Carey and Robison, 1981; Palko *et al.*, 1981

Stock structure

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

Swordfish, *Xiphias gladius*, Indian Ocean

Brief mention

Takahashi *et al.*, 1988

Swordfish, *Xiphias gladius*, Pacific Ocean

Movements

Anonymous, 1992n

Sonic or archival tagging

Bayliff and Holland, 1986; Carey, 1983; Carey and Robison, 1981; Holland *et al.*, 1985; Palko *et al.*, 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 *et al.*, 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, 1954l; 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 *et al.*, 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 *et al.*, 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 *et al.*, 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 *et al.*, 1983; Hynd, 1969; Hynd *et al.*, 1967; Ichikawa, 1981; Ishida, 1989; Itano, 1990; Itano, 1992; Iversen and Yoshida, 1957; Jakobsson, 1970; Kailola, 1978; Kasahara *et al.*, 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 *et al.*, 1983b; Kleiber *et al.*, 1987; Kume, 1981b; Laurs *et al.*, 1976; Laurs and Wetherall, 1981; Lenarz *et al.*, 1972; Lenarz *et al.*, 1973b; Letaconnoux, 1963; Letaconnoux, 1971; Lewis, 1977b; Lewis, 1980a; Lewis, 1980b; Lewis, 1989; Lewis, 1991; Lewis *et al.*, no date; Lucas, 1974; Majkowski, 1982a; Majkowski and Murphy, 1983; Marr, 1963a; Marr, 1963b; Mason *et al.*, 1977; Mather, 1960; Mather, 1963a; Mather and Mason, 1973; Mather and Mason, 1976; Mather *et al.*, 1976; Mather, Tabb, Mason, and Clark, 1974; Mather and working party, 1969; Mather and working party, 1972; Matthews and Deguara, 1992; McFarlane *et al.*, 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 *et al.*, 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 *et al.*, 1961; Schaefer, 1952; Scott *et al.*, 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 *et al.*, 1992; Williams, 1980; Williams, 1983; Williams, 1992; Williams and Diplock, 1989; Wilson, 1953; Yamashita and Waldron, 1958; Yamashita and Waldron, 1959; Yano, 1991; Yonemori *et al.*, 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 *et al.*, 1991; Bailey, 1987b; Bard, 1984b; Bard *et al.*, 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 *et al.*, 1981; Hearn, 1989; Hearn and Majkowski, 1987a; Hilborn, 1988; Iselin, 1963; Ishida, 1989; Itano, 1992; Kearney, 1983; Kearney, 1992; Kleiber *et al.*, 1987; Kleiber, Chivers, and Weber, 1984; Labelle, 1992; Lenarz and Zweifel, 1979; Lewis, 1977b; Lewis, 1980b; Lewis, 1989; Lewis, 1991; Majkowski, 1982a; Majkowski *et al.*, 1984; Majkowski *et al.*, 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 *et al.*, 1961; Schaefer, Chatwin, and Broadhead, 1963; Scott *et al.*, 1990; Shiohama, 1990; Shomura, 1987; Sitan, 1989b; Watkins, 1987; Whitelaw and Hearn, 1991; Whitelaw *et al.*, 1992; Williams, 1980; Yamaguchi and Kikawa, 1982; Yamashita and Waldron, 1959; Yonemori *et al.*, 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 *et al.*, 1990; Sitan, 1989b

Sonic or archival tagging

Anonymous, 1968c; Anonymous, 1983l; Bass and Rascovich, 1965; Bayliff and Holland, 1986; Brill *et al.*, 1984; Butler and Pincock, 1978; Carey *et al.*, 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 *et al.*, 1985; Holland *et al.*, 1990b; Jolley and Irby, 1979; Kanwisher *et al.*, 1974; Laurs *et al.*, 1977; Porter and Hogans, 1992; Yuen, 1970; Yuen *et al.*, 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, etc.)

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
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