

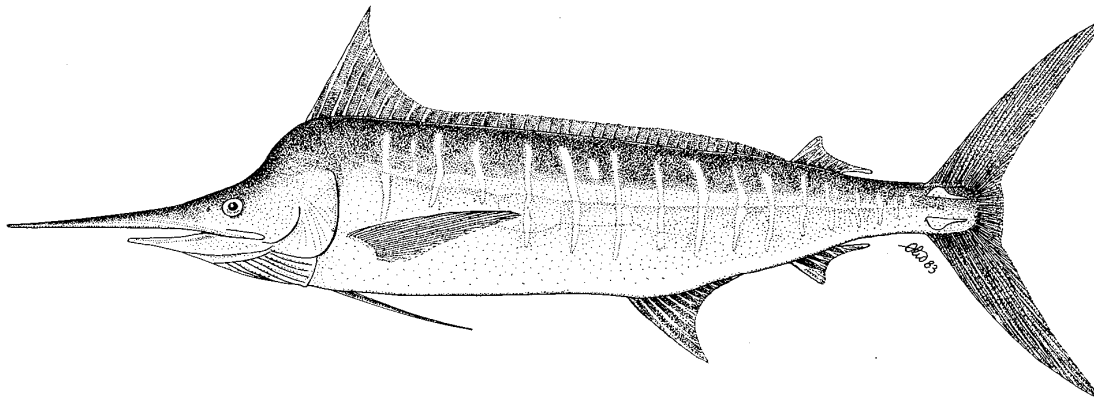


SCTB15 Working Paper

SWG-3

Estimates of annual catches for billfish species taken in commercial fisheries of the western and central Pacific Ocean

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Table 1. Sources of commercial longline catch estimates for billfish by fleet.

American Samoa	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates for 1995–2001 catches provided by Bob Skillman, pers.comm. June 2002). Note that these estimates do not include the commercial troll/handline fishery.
Australia	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates for years up to and including 2000 were provided by the Bureau of Resource Sciences (Carolyn Robins, personal communication, August 2001). The following notes accompanied the provision of earlier estimates: "(1) The estimates provided represent retained catches reported in logbooks. This is particularly important for black marlin and blue marlin where voluntary release and, since 1998, mandatory release has existed for commercial fishers..... (2) The billfish data do not yet include joint venture catches. Similarly, for the domestic billfish data we may need to go back to the foreign longline database and extract any charter data that might be held there. " Estimates for 2001 were provided by James Findlay, Australian Agriculture, Fisheries and Forestry (AFFA), pers. comm. June 2002). The 2001 estimates include discards of billfish, the weight for which were determined by applying an estimate of average weight for each species obtained from logsheet data.
China	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : All estimates were determined by applying the species composition (by weight) of billfish species to total target tuna, obtained from observer data held at SPC, to annual catch estimates of target tuna (Lawson, 2002).
Cook Islands	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates determined by applying the species composition (by weight) of billfish species to total target tuna from logbooks to annual target tuna catch estimates (Lawson 2002).
Fed. States of Micronesia	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates determined by applying the species composition (by weight) of billfish species to total target tuna from logbooks to annual target tuna catch estimates (Lawson 2002).
Fiji	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates for 1994-1998 are provided in SCTB12 Working Paper NFR–6 Tuna and Billfish fisheries of Fiji's Fishing Zone (Illiapi Tuwai, 1999). Estimates for 1989–1993 were determined by applying the species composition (by weight) of billfish species to total target tuna for the period 1994–1998, to annual catch estimates of target tuna (Lawson, 2001). Estimates for 1999–2001 are provided in SCTB12 Working Paper NFR Fiji Tuna and Billfish fisheries (Jone Amoe, 2002).
French Polynesia	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Catch estimates for years prior to 2001 were provided by Arsene Stein in his email message of 12 April 2000 and Christophe Misselis in his email message of 27 July 2001. Estimates include the small-scale bonitier and poti marara fisheries. Catch estimates for 2001 were provided by Arsene Stein in his email message of 30 April 2002.
Indonesia	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates were derived by applying the species composition of billfish species to total target tuna (Carrara and Uktolseja, 1997), to annual catch estimates of target tuna (Lawson, 2002).
Japan, coastal	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : No estimates for this fleet are currently available.
Japan, offshore/distant water	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates for 1962–1969 were obtained by applying estimates of average weight to aggregate catch data (in numbers of fish) provided to SPC by the Japan National Research Institute of Far Seas Fisheries (NRIFSF). Estimates for 1970–1998 were provided in SCTB13 WP NFR–9 <i>National</i>

Tuna Fisheries Report of Japan as of 1999 (Miyabe et al., 1999). Estimates for 1998 have been carried over for 1999, 2000 and 2001.

Kiribati	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates determined by applying the proportion of logbook-reported target tuna catch to annual target tuna catch estimates (Lawson 2002), to the logbook-reported billfish catches.
Korea	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates for 1975–1997 were obtained from raised aggregate catch data provided to SPC by the Korean National Fisheries Research and Development Institute (NFRDI) for the WCPO. Estimates for 1998–2000 were provided by Dr Koh (NFRDI), pers. comm. July 20 th 2001. Estimates for 2001 were provided by Dr Koh (NFRDI), pers. comm. July 9 th 2002.
Marshall Islands	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates determined by applying the species composition (by weight) of billfish species to total target tuna from logbooks to annual target tuna catch estimates (Lawson 2002).
New Caledonia	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates determined by applying the proportion of logbook-reported target tuna catch to annual target tuna catch estimates (Lawson 2002), to the logbook-reported billfish catches.
New Zealand	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates of swordfish catches provided from landings data for years prior to 1990 provided by Talbot Murray (pers. comm. 6 th August 2001). Estimates of swordfish catches provided from landings data for years since 1990 provided by Talbot Murray (pers. comm. 4 th July 2002). Estimates since 1990 include very minor catches from the troll and 'unclassified' fisheries. Regulations in place under a billfish moratorium (since 1988) restrict the landing of marlin species, hence retained catches of billfish since 1988 are essentially zero.
Papua New Guinea	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates were determined by applying the species composition of billfish, from logbook data to annual target tuna catch estimates (Lawson, 2002).
Philippines	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates were derived by applying the species composition of billfish species to total target tuna in the adjacent Indonesian longline fishery (Carrara and Uktolseja, 1997), to annual catch estimates of target tuna for the Philippine longline fishery (Lawson, 2002).
Samoa	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates were determined by applying species composition of billfish catch (from port sampling) to annual tuna catch estimates. Species composition data for years prior to 2000 were provided by Toni Mulipola in his email message of 14 April, 2000. The estimate for 2000 was determined by applying species composition of billfish for 1999 to target tuna catch estimate for 2000 (Lawson, 2002). The estimate for 2001 was determined by applying species composition of billfish (according to port sampling for the year 2001) provided by Mr Mulipola in his email message of 26 th June 2002, to the target tuna catch estimate for 2001 (Lawson, 2002).
Solomon Islands	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates were determined by applying the species composition of billfish to target tuna catch, provided for 1999 by Edwin Oreihaka, to annual catch estimates of target tuna (Lawson, 2002).
Taiwan, distant-water	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates for 1967–2000 were obtained from aggregate catch data provided to SPC by the Taiwanese Overseas Fisheries Development Council (OFDC). The 2001 estimates were determined by applying the species composition of these species for 2000 to the target tuna catch estimates for this fleet (Lawson, 2002).
Taiwan, offshore, Micronesia	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : All estimates were determined by

applying the species composition (by weight) of billfish species to total target tuna, obtained from observer data held at SPC, to annual catch estimates of target tuna (Lawson, 2002). The estimate for 2000 has been carried over to 2001.

Taiwan, offshore, Taiwan	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : All estimates obtained from the Taiwan Fisheries Bureau (2001). Estimates for 2000 have been carried over to 2001.
Tonga	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : All estimates were determined by applying the species composition (by weight) of billfish species to total target tuna, obtained from observer data held at SPC, to annual catch estimates of target tuna (Lawson, 2002).
United States of America, (Hawaii)	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates of catches prior to 1997 for the Hawaiian longline fishery were obtained from Curran et al. (1996), Curran (pers. comm.) and WPRFMC (1999). Note that the reported black marlin catch is accepted as a misidentification problem and is understood to be negligible (Curran et al. 1996); hence it is not reported here. Estimates for 1997–2001 were provided by Bob Skillman (pers. comm June 2002). Note that these estimates <u>include</u> the commercial troll/handline fishery catches of blue marlin and striped marlin.
United States of America, (FSM and Marshall Islands)	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : All estimates were determined by applying the species composition (by weight) of billfish species to annual catch estimates of target tuna (Lawson, 2002).
Vanuatu	<u>Blue marlin, black marlin, striped marlin, swordfish</u> : Estimates were determined by applying the proportion of logbook-reported target tuna catch to annual target tuna catch estimates (Lawson 2002), to the logbook-reported billfish catches.

Table 2. Longline catches (metric tonnes) of blue marlin in the WCPO

Legend : '-' no catch; '...' catches not available; '(') provisional estimates only.

YEAR	AMERICAN SAMOA	AUSTRALIA DOMESTIC	AUSTRALIA-JAPAN JV	CHINA	COOK ISLANDS	FEDERATED STATES OF MICRONESIA	FIJI	FRENCH POLYNESIA	INDONESIA	JAPAN COASTAL
1950	-	-	-	-	-	-	-	-	...	...
1951	-	-	-	-	-	-	-	-	...	...
1952	-	-	-	-	-	-	-	-	...	...
1953	-	-	-	-	-	-	-	-	...	...
1954	-	-	-	-	-	-	-	-	...	...
1955	-	-	-	-	-	-	-	-	...	...
1956	-	-	-	-	-	-	-	-	...	...
1957	-	-	-	-	-	-	-	-	...	...
1958	-	-	-	-	-	-	-	-	...	...
1959	-	-	-	-	-	-	-	-	...	...
1960	-	-	-	-	-	-	-	-	...	...
1961	-	-	-	-	-	-	-	-	...	...
1962	-	-	-	-	-	-	-	-	...	...
1963	-	-	-	-	-	-	-	-	...	...
1964	-	-	-	-	-	-	-	-	...	...
1965	-	-	-	-	-	-	-	-	...	...
1966	-	-	-	-	-	-	-	-	...	...
1967	-	-	-	-	-	-	-	-	...	...
1968	-	-	-	-	-	-	-	-	...	...
1969	-	-	-	-	-	-	-	-	...	...
1970	-	-	-	-	-	-	-	-	...	...
1971	-	-	-	-	-	-	-	-	...	...
1972	-	-	-	-	-	-	-	-	...	...
1973	-	-	-	-	-	-	-	-	...	...
1974	-	-	-	-	-	-	-	-	...	...
1975	-	-	-	-	-	-	-	-	...	...
1976	-	-	-	-	-	-	-	-	...	...
1977	-	-	-	-	-	-	-	-	...	...
1978	-	-	-	-	-	-	-	-	111	...
1979	-	-	-	-	-	-	-	-	116	...
1980	-	-	-	-	-	-	-	-	135	...
1981	-	-	-	-	-	-	-	-	165	...
1982	-	-	-	-	-	-	-	-	329	...
1983	-	-	-	-	-	-	-	-	96	...
1984	-	-	-	-	-	-	-	-	153	...
1985	-	0	-	-	-	-	-	-	225	...
1986	-	0	-	-	-	-	-	-	223	...
1987	-	51	-	-	-	-	-	-	846	...
1988	-	36	-	4	-	-	-	-	888	...
1989	-	0	...	15	-	-	2	-	468	...
1990	-	18	...	46	-	-	8	36	503	...
1991	-	1	...	103	-	2	29	71	554	...
1992	-	2	...	277	-	10	42	124	571	...
1993	-	0	...	655	-	11	65	246	570	...
1994	-	4	...	1,293	2	27	118	388	420	...
1995	1	4	...	1,080	16	18	224	462	635	...
1996	4	9	-	615	4	7	161	464	726	...
1997	4	0	-	374	-	13	209	378	717	...
1998	10	0	-	334	-	25	198	368	1,032	...
1999	9	0	-	693	-	(25)	324	440	1,082	...
2000	21	0	-	637	-	(25)	340	440	(1,082)	...
2001	74	72	-	(637)	-	(25)	186	451	(1,082)	...

Table 2. Longline catches (metric tonnes) of blue marlin in the WCPO (continued)

YEAR	JAPAN OFFSHORE AND DW	KIRIBATI	KOREA	MARSHALL ISLANDS	NEW CALEDONIA	NEW ZEALAND	PAPUA NEW GUINEA	PHILIPPINES	SAMOA	SOLOMON ISLANDS
1950	...	-	-	-	-	-	-	...	-	-
1951	...	-	-	-	-	-	-	...	-	-
1952	...	-	-	-	-	-	-	...	-	-
1953	...	-	-	-	-	-	-	...	-	-
1954	...	-	-	-	-	-	-	...	-	-
1955	...	-	-	-	-	-	-	...	-	-
1956	...	-	-	-	-	-	-	...	-	-
1957	...	-	-	-	-	-	-	...	-	-
1958	...	-	...	-	-	-	-	...	-	-
1959	...	-	...	-	-	-	-	...	-	-
1960	...	-	...	-	-	-	-	...	-	-
1961	...	-	...	-	-	-	-	...	-	-
1962	13,569	-	...	-	-	-	-	...	-	-
1963	10,892	-	...	-	-	-	-	...	-	-
1964	9,287	-	...	-	-	-	-	...	-	-
1965	7,247	-	...	-	-	-	-	...	-	-
1966	7,676	-	...	-	-	-	-	...	-	-
1967	6,290	-	...	-	-	-	-	...	-	-
1968	5,041	-	...	-	-	-	-	...	-	-
1969	5,585	-	...	-	-	-	-	...	-	-
1970	8,225	-	...	-	-	-	-	54	-	-
1971	4,709	-	...	-	-	-	-	60	-	-
1972	6,177	-	...	-	-	-	-	63	-	-
1973	5,106	-	...	-	-	-	-	75	-	0
1974	5,193	-	...	-	-	-	-	87	-	-
1975	3,409	-	29	-	-	-	-	89	-	-
1976	3,707	-	712	-	-	-	-	75	-	1
1977	4,206	-	546	-	-	-	-	106	-	1
1978	5,045	-	592	-	-	-	-	63	-	1
1979	4,500	-	1,188	-	-	-	-	83	-	2
1980	6,071	-	826	-	-	-	-	108	-	2
1981	5,382	-	953	-	-	-	-	148	-	1
1982	5,440	-	890	-	-	-	-	173	-	1
1983	4,238	-	420	-	8	-	-	258	-	2
1984	6,006	-	848	-	10	-	-	117	-	1
1985	5,185	-	893	-	19	-	-	166	-	1
1986	5,422	-	791	-	11	-	-	220	-	-
1987	3,903	-	1,453	-	30	-	-	345	-	-
1988	5,063	-	1,277	-	15	-	-	290	-	-
1989	4,078	-	1,176	-	24	0	-	316	-	-
1990	3,056	-	1,103	-	18	0	-	202	-	-
1991	3,024	-	632	-	9	0	-	238	-	-
1992	3,053	-	1,060	0	15	0	-	111	-	-
1993	3,555	-	1,104	14	15	0	0	95	3	-
1994	3,847	-	637	0	22	0	1	129	8	-
1995	3,578	1	1,212	1	14	0	1	121	23	5
1996	2,173	0	456	...	11	0	0	122	23	-
1997	1,847	...	654	-	8	0	2	134	53	-
1998	1,936	...	1,623	-	9	0	3	158	56	8
1999	1,934	...	2,760	-	15	0	12	180	47	11
2000	(1,934)	...	1,990	-	40	0	41	180	57	11
2001	(1,934)	...	2,934	-	24	0	52	188	58	26

Table 2. Longline catches (metric tonnes) of blue marlin in the WCPO (continued)

YEAR	TAIWAN DISTANT- WATER	TAIWAN OFFSHORE MICRONESIA	TAIWAN OFFSHORE TAIWAN	TONGA	UNITED STATES	VANUATU	TOTAL
1950	-	-	...	-	-	-	...
1951	-	-	...	-	-	-	...
1952	-	-	...	-	-	-	...
1953	-	-	...	-	-	-	...
1954	...	-	...	-	-	-	...
1955	...	-	...	-	-	-	...
1956	...	-	...	-	-	-	...
1957	...	-	...	-	-	-	...
1958	...	-	887	-	-	-	...
1959	...	-	781	-	-	-	...
1960	...	-	948	-	-	-	...
1961	...	-	703	-	-	-	...
1962	...	-	628	-	-	-	14,197
1963	...	-	691	-	-	-	11,583
1964	...	-	934	-	-	-	10,221
1965	...	-	1,016	-	-	-	8,263
1966	...	-	1,035	-	-	-	8,711
1967	293	-	898	-	-	-	7,481
1968	502	-	1,443	-	-	-	6,986
1969	590	-	1,230	-	-	-	7,405
1970	760	-	1,385	-	-	-	10,424
1971	590	-	1,331	-	-	-	6,690
1972	532	-	1,205	-	-	-	7,977
1973	503	-	1,650	-	-	-	7,335
1974	428	-	1,312	-	-	-	7,020
1975	301	-	2,628	-	-	-	6,455
1976	382	-	1,291	-	-	-	6,167
1977	453	-	1,175	-	-	-	6,486
1978	342	-	1,633	-	-	-	7,787
1979	333	-	1,626	-	-	-	7,849
1980	271	-	1,134	-	32	-	8,579
1981	271	-	1,812	-	42	-	8,773
1982	173	-	2,129	4	136	-	9,277
1983	146	-	2,121	4	72	-	7,364
1984	210	-	1,789	5	23	-	9,162
1985	135	-	1,187	5	26	-	7,842
1986	122	-	1,723	5	38	-	8,556
1987	142	...	4,617	6	45	-	11,438
1988	196	...	2,822	6	90	-	10,687
1989	173	...	2,644	5	364	-	9,265
1990	336	845	1,730	4	318	-	8,223
1991	357	636	2,152	4	704	-	8,515
1992	107	840	3,769	5	353	-	10,339
1993	230	1,546	3,876	7	373	-	12,366
1994	738	1,499	3,007	8	378	-	12,528
1995	274	2,371	3,820	10	693	11	14,573
1996	159	2,200	4,336	12	932	19	12,433
1997	112	648	4,850	14	868	13	10,899
1998	106	1,544	4,755	17	636	3	12,820
1999	313	831	3,827	22	669	(3)	13,196
2000	343	1,265	3,980	24	545	(3)	12,957
2001	468	(1,265)	(3,980)	36	644	(0)	14,137

Table 3. Longline catches (metric tonnes) of black marlin in the WCPO

Legend : '-' no catch; '...' catches not available; '()' provisional estimates only.

YEAR	AMERICAN SAMOA	AUSTRALIA DOMESTIC	AUSTRALIA-JAPAN JV	CHINA	COOK ISLANDS	FEDERATED STATES OF MICRONESIA	FIJI	FRENCH POLYNESIA	INDONESIA	JAPAN COASTAL
1950	-	-	-	-	-	-	-	-	...	...
1951	-	-	-	-	-	-	-	-	...	...
1952	-	-	-	-	-	-	-	-	...	...
1953	-	-	-	-	-	-	-	-	...	...
1954	-	-	-	-	-	-	-	-	...	...
1955	-	-	-	-	-	-	-	-	...	...
1956	-	-	-	-	-	-	-	-	...	...
1957	-	-	-	-	-	-	-	-	...	...
1958	-	-	-	-	-	-	-	-	...	...
1959	-	-	-	-	-	-	-	-	...	...
1960	-	-	-	-	-	-	-	-	...	...
1961	-	-	-	-	-	-	-	-	...	...
1962	-	-	-	-	-	-	-	-	...	...
1963	-	-	-	-	-	-	-	-	...	...
1964	-	-	-	-	-	-	-	-	...	...
1965	-	-	-	-	-	-	-	-	...	...
1966	-	-	-	-	-	-	-	-	...	...
1967	-	-	-	-	-	-	-	-	...	...
1968	-	-	-	-	-	-	-	-	...	...
1969	-	-	-	-	-	-	-	-	...	...
1970	-	-	-	-	-	-	-	-	...	...
1971	-	-	-	-	-	-	-	-	...	...
1972	-	-	-	-	-	-	-	-	...	...
1973	-	-	-	-	-	-	-	-	...	...
1974	-	-	-	-	-	-	-	-	...	...
1975	-	-	-	-	-	-	-	-	...	...
1976	-	-	-	-	-	-	-	-	...	...
1977	-	-	-	-	-	-	-	-	...	...
1978	-	-	-	-	-	-	-	-	33	...
1979	-	-	-	-	-	-	-	-	35	...
1980	-	-	-	-	-	-	-	-	40	...
1981	-	-	-	-	-	-	-	-	49	...
1982	-	-	-	-	-	-	-	-	99	...
1983	-	-	-	-	-	-	-	-	29	...
1984	-	-	-	-	-	-	-	-	46	...
1985	-	0	-	-	-	-	-	-	68	...
1986	-	0	-	-	-	-	-	-	67	...
1987	-	17	-	-	-	-	-	-	254	...
1988	-	13	-	1	-	-	-	-	266	...
1989	-	1	...	4	-	-	0	-	140	...
1990	-	13	...	12	-	-	2	1	151	...
1991	-	15	...	26	-	0	6	1	166	...
1992	-	8	...	71	-	0	9	1	171	...
1993	-	0	...	167	-	1	14	3	171	...
1994	-	3	...	330	6	6	107	3	126	...
1995	0	2	...	275	4	1	6	3	190	...
1996	0	5	-	157	2	0	10	3	218	...
1997	1	0	-	95	-	4	40	3	215	...
1998	21	1	-	85	-	13	38	3	309	...
1999	3	0	-	177	-	(13)	44	3	324	...
2000	2	0	-	162	-	(13)	34	3	(324)	...
2001	1	46	-	(162)	-	(13)	46	3	(324)	...

Table 3. Longline catches (metric tonnes) of black marlin in the WCPO (continued)

YEAR	JAPAN OFFSHORE AND DW	KIRIBATI	KOREA	MARSHALL ISLANDS	NEW CALEDONIA	NEW ZEALAND	PAPUA NEW GUINEA	PHILIPPINES	SAMOA	SOLOMON ISLANDS
1950	...	-	-	-	-	-	-	...	-	-
1951	...	-	-	-	-	-	-	...	-	-
1952	...	-	-	-	-	-	-	...	-	-
1953	...	-	-	-	-	-	-	...	-	-
1954	...	-	-	-	-	-	-	...	-	-
1955	...	-	-	-	-	-	-	...	-	-
1956	...	-	-	-	-	-	-	...	-	-
1957	...	-	-	-	-	-	-	...	-	-
1958	...	-	...	-	-	-	-	...	-	-
1959	...	-	...	-	-	-	-	...	-	-
1960	...	-	...	-	-	-	-	...	-	-
1961	...	-	...	-	-	-	-	...	-	-
1962	978	-	...	-	-	-	-	...	-	-
1963	838	-	...	-	-	-	-	...	-	-
1964	717	-	...	-	-	-	-	...	-	-
1965	1,123	-	...	-	-	-	-	...	-	-
1966	1,024	-	...	-	-	-	-	...	-	-
1967	587	-	...	-	-	-	-	...	-	-
1968	424	-	...	-	-	-	-	...	-	-
1969	579	-	...	-	-	-	-	...	-	-
1970	1,223	-	...	-	-	-	-	16	-	-
1971	1,271	-	...	-	-	-	-	18	-	-
1972	980	-	...	-	-	-	-	19	-	-
1973	904	-	...	-	-	-	-	22	-	0
1974	824	-	...	-	-	-	-	26	-	-
1975	657	-	...	-	-	-	-	27	-	-
1976	413	-	...	-	-	-	-	22	-	1
1977	552	-	...	-	-	-	-	32	-	1
1978	814	-	...	-	-	-	-	19	-	1
1979	763	-	...	-	-	-	-	25	-	2
1980	758	-	...	-	-	-	-	32	-	2
1981	707	-	...	-	-	-	-	44	-	1
1982	689	-	...	-	-	-	-	52	-	1
1983	568	-	...	-	3	-	-	77	-	2
1984	561	-	...	-	2	-	-	35	-	1
1985	537	-	...	-	24	-	-	50	-	1
1986	306	-	...	-	39	-	-	66	-	-
1987	317	-	103	-	95	-	-	103	-	-
1988	556	-	162	-	76	-	-	87	-	-
1989	215	-	129	-	82	0	-	95	-	-
1990	138	-	148	-	88	0	-	60	-	-
1991	129	-	47	-	91	0	-	71	-	-
1992	149	-	122	0	43	0	-	33	-	-
1993	181	-	98	0	48	0	0	29	1	-
1994	242	-	53	0	52	0	1	39	3	-
1995	152	0	33	0	31	0	1	36	10	0
1996	89	0	15	...	25	0	2	37	10	-
1997	71	...	48	-	23	0	1	40	23	-
1998	(79)	...	0	-	33	0	1	47	22	1
1999	(79)	...	0	-	37	0	(6)	54	23	1
2000	(79)	...	0	-	40	0	(16)	(54)	25	1
2001	(79)	...	0	-	40	0	(44)	(56)	25	2

Table 3. Longline catches (metric tonnes) of black marlin in the WCPO (continued)

YEAR	TAIWAN DISTANT- WATER	TAIWAN OFFSHORE MICRONESIA	TAIWAN OFFSHORE TAIWAN	TONGA	UNITED STATES	VANUATU	TOTAL
1950	-	-	...	-	-	-	...
1951	-	-	...	-	-	-	...
1952	-	-	...	-	-	-	...
1953	-	-	...	-	-	-	...
1954	...	-	...	-	-	-	...
1955	...	-	...	-	-	-	...
1956	...	-	...	-	-	-	...
1957	...	-	...	-	-	-	...
1958	...	-	1,869	-	-	-	...
1959	...	-	1,244	-	-	-	...
1960	...	-	1,332	-	-	-	...
1961	...	-	1,175	-	-	-	...
1962	...	-	1,113	-	-	-	2,091
1963	...	-	1,262	-	-	-	2,100
1964	...	-	978	-	-	-	1,695
1965	...	-	1,090	-	-	-	2,213
1966	...	-	981	-	-	-	2,005
1967	15	-	1,052	-	-	-	1,654
1968	27	-	1,266	-	-	-	1,717
1969	34	-	1,293	-	-	-	1,906
1970	44	-	925	-	-	-	2,209
1971	72	-	1,383	-	-	-	2,744
1972	61	-	1,208	-	-	-	2,268
1973	56	-	1,251	-	-	-	2,234
1974	50	-	1,089	-	-	-	1,989
1975	19	-	1,452	-	-	-	2,155
1976	18	-	735	-	-	-	1,189
1977	23	-	548	-	-	-	1,155
1978	34	-	1,151	-	-	-	2,052
1979	111	-	1,363	-	-	-	2,299
1980	32	-	530	-	0	-	1,395
1981	28	-	1,087	-	0	-	1,917
1982	14	-	1,107	5	0	-	1,966
1983	7	-	1,019	5	0	-	1,709
1984	12	-	597	5	0	-	1,259
1985	8	-	298	5	0	-	991
1986	4	-	525	6	0	-	1,013
1987	2	...	470	7	...	-	1,368
1988	11	...	856	6	...	-	2,033
1989	1	...	306	5	...	-	977
1990	9	105	286	4	...	-	1,016
1991	6	79	651	4	0	-	1,293
1992	10	104	684	5	1	-	1,411
1993	65	223	248	7	1	-	1,257
1994	13	186	443	9	0	-	1,621
1995	18	237	209	10	5	1	1,226
1996	2	85	193	13	1	4	870
1997	5	90	247	15	0	3	925
1998	3	335	214	19	4	1	1,227
1999	38	487	256	24	0	1	1,569
2000	8	485	157	26	0	1	1,430
2001	11	(485)	(157)	39	0	0	1,533

Table 4. Longline catches (metric tonnes) of striped marlin in the WCPO

Legend : '-' no catch; '...' catches not available; '(') provisional estimates only.

YEAR	AMERICAN SAMOA	AUSTRALIA DOMESTIC	AUSTRALIA-JAPAN JV	CHINA	COOK ISLANDS	FEDERATED STATES OF MICRONESIA	FIJI	FRENCH POLYNESIA	INDONESIA	JAPAN COASTAL
1950	-	-	-	-	-	-	-	-	...	...
1951	-	-	-	-	-	-	-	-	...	...
1952	-	-	-	-	-	-	-	-	...	...
1953	-	-	-	-	-	-	-	-	...	...
1954	-	-	-	-	-	-	-	-	...	...
1955	-	-	-	-	-	-	-	-	...	...
1956	-	-	-	-	-	-	-	-	...	...
1957	-	-	-	-	-	-	-	-	...	...
1958	-	-	-	-	-	-	-	-	...	...
1959	-	-	-	-	-	-	-	-	...	...
1960	-	-	-	-	-	-	-	-	...	...
1961	-	-	-	-	-	-	-	-	...	...
1962	-	-	-	-	-	-	-	-	...	...
1963	-	-	-	-	-	-	-	-	...	...
1964	-	-	-	-	-	-	-	-	...	...
1965	-	-	-	-	-	-	-	-	...	...
1966	-	-	-	-	-	-	-	-	...	...
1967	-	-	-	-	-	-	-	-	...	...
1968	-	-	-	-	-	-	-	-	...	...
1969	-	-	-	-	-	-	-	-	...	...
1970	-	-	-	-	-	-	-	-	...	...
1971	-	-	-	-	-	-	-	-	...	...
1972	-	-	-	-	-	-	-	-	...	...
1973	-	-	-	-	-	-	-	-	...	...
1974	-	-	-	-	-	-	-	-	...	...
1975	-	-	-	-	-	-	-	-	...	...
1976	-	-	-	-	-	-	-	-	...	...
1977	-	-	-	-	-	-	-	-	...	...
1978	-	-	-	-	-	-	-	-	22	...
1979	-	-	-	-	-	-	-	-	23	...
1980	-	-	-	-	-	-	-	-	27	...
1981	-	-	-	-	-	-	-	-	33	...
1982	-	-	-	-	-	-	-	-	66	...
1983	-	-	-	-	-	-	-	-	19	...
1984	-	-	-	-	-	-	-	-	31	...
1985	-	0	-	-	-	-	-	-	45	...
1986	-	0	-	-	-	-	-	-	45	...
1987	-	65	-	-	-	-	-	-	169	...
1988	-	76	-	1	-	-	-	-	178	...
1989	-	6	...	4	-	-	1	-	94	...
1990	-	66	...	12	-	-	4	3	101	...
1991	-	32	...	26	-	0	15	8	111	...
1992	-	22	...	71	-	0	21	26	114	...
1993	-	27	...	167	-	1	33	69	114	...
1994	-	54	...	330	7	1	35	104	84	...
1995	2	87	...	275	11	5	67	72	127	...
1996	10	138	-	157	5	2	75	110	145	...
1997	14	198	-	95	-	1	89	149	144	...
1998	21	447	-	85	-	5	203	102	207	...
1999	16	490	-	177	-	5	218	162	217	...
2000	22	506	-	162	-	5	141	(162)	(217)	...
2001	16	539	-	(162)	-	5	88	(96)	(217)	...

Table 4. Longline catches of striped marlin in the WCPO (continued)

YEAR	JAPAN OFFSHORE AND DW	KIRIBATI	KOREA	MARSHALL ISLANDS	NEW CALEDONIA	NEW ZEALAND	PAPUA NEW GUINEA	PHILIPPINES	SAMOA	SOLOMON ISLANDS
1950	...	-	-	-	-	-	-	...	-	-
1951	...	-	-	-	-	-	-	...	-	-
1952	...	-	-	-	-	-	-	...	-	-
1953	...	-	-	-	-	-	-	...	-	-
1954	...	-	-	-	-	-	-	...	-	-
1955	...	-	-	-	-	-	-	...	-	-
1956	...	-	-	-	-	-	-	...	-	-
1957	...	-	-	-	-	-	-	...	-	-
1958	...	-	...	-	-	-	-	...	-	-
1959	...	-	...	-	-	-	-	...	-	-
1960	...	-	...	-	-	-	-	...	-	-
1961	...	-	...	-	-	-	-	...	-	-
1962	14,875	-	...	-	-	-	-	...	-	-
1963	11,824	-	...	-	-	-	-	...	-	-
1964	16,628	-	...	-	-	-	-	...	-	-
1965	12,939	-	...	-	-	-	-	...	-	-
1966	9,222	-	...	-	-	-	-	...	-	-
1967	10,913	-	...	-	-	-	-	...	-	-
1968	11,216	-	...	-	-	-	-	...	-	-
1969	7,221	-	...	-	-	-	-	...	-	-
1970	6,135	-	...	-	-	-	-	11	-	-
1971	4,816	-	...	-	-	-	-	12	-	-
1972	3,455	-	...	-	-	-	-	13	-	-
1973	3,766	-	...	-	-	-	-	15	-	0
1974	3,475	-	...	-	-	-	-	17	-	-
1975	2,233	-	27	-	-	-	-	18	-	-
1976	2,112	-	248	-	-	-	-	15	-	0
1977	1,505	-	115	-	-	-	-	21	-	0
1978	2,033	-	480	-	-	-	-	13	-	0
1979	3,574	-	291	-	-	-	-	17	-	0
1980	3,393	-	51	-	-	-	-	22	-	1
1981	3,081	-	489	-	-	-	-	30	-	0
1982	3,093	-	333	-	-	-	-	35	-	0
1983	2,094	-	150	-	21	-	-	52	-	0
1984	2,787	-	253	-	23	-	-	23	-	0
1985	3,653	-	283	-	71	-	-	33	-	0
1986	4,397	-	199	-	85	-	-	44	-	-
1987	2,809	-	189	-	100	-	-	69	-	-
1988	4,763	-	222	-	63	-	-	58	-	-
1989	3,836	-	152	-	123	0	-	63	-	-
1990	2,234	-	100	-	168	5	-	40	-	-
1991	2,532	-	39	-	75	0	-	48	-	-
1992	2,331	-	100	0	71	0	-	22	-	-
1993	3,228	-	111	0	40	0	0	19	3	-
1994	2,937	-	102	0	193	0	1	26	7	-
1995	3,058	0	118	0	89	0	2	24	21	0
1996	2,078	0	51	...	101	0	1	24	21	-
1997	1,668	...	103	-	60	0	1	27	49	-
1998	(1,797)	...	429	-	159	0	2	(32)	41	0
1999	(1,797)	...	582	-	91	0	(1)	(36)	59	0
2000	(1,797)	...	262	-	103	0	(44)	(36)	53	0
2001	(1,797)	...	190	-	72	0	(5)	(38)	55	0

Table 4. Longline catches (metric tonnes) of striped marlin in the WCPO (continued)

YEAR	TAIWAN DISTANT- WATER	TAIWAN OFFSHORE MICRONESIA	TAIWAN OFFSHORE TAIWAN	TONGA	UNITED STATES	VANUATU	TOTAL
1950	-	-	...	-	-	-	...
1951	-	-	...	-	-	-	...
1952	-	-	...	-	-	-	...
1953	-	-	...	-	-	-	...
1954	...	-	...	-	-	-	...
1955	...	-	...	-	-	-	...
1956	...	-	...	-	-	-	...
1957	...	-	...	-	-	-	...
1958	...	-	543	-	-	-	...
1959	...	-	391	-	-	-	...
1960	...	-	398	-	-	-	...
1961	...	-	306	-	-	-	...
1962	...	-	332	-	-	-	15,207
1963	...	-	560	-	-	-	12,384
1964	...	-	392	-	-	-	17,020
1965	...	-	355	-	-	-	13,294
1966	...	-	340	-	-	-	9,562
1967	68	-	385	-	-	-	11,366
1968	81	-	332	-	-	-	11,629
1969	77	-	571	-	-	-	7,869
1970	209	-	495	-	-	-	6,850
1971	123	-	449	-	-	-	5,400
1972	248	-	380	-	-	-	4,095
1973	145	-	568	-	-	-	4,494
1974	88	-	487	-	-	-	4,068
1975	171	-	732	-	-	-	3,181
1976	144	-	347	-	-	-	2,866
1977	183	-	524	-	-	-	2,348
1978	180	-	618	-	-	-	3,346
1979	233	-	432	-	-	-	4,570
1980	178	-	223	-	105	-	3,999
1981	167	-	491	-	94	-	4,384
1982	107	-	397	10	140	-	4,180
1983	56	-	555	10	114	-	3,072
1984	115	-	965	10	91	-	4,298
1985	58	-	513	11	75	-	4,743
1986	23	-	179	12	191	-	5,175
1987	45	...	383	14	273	-	4,116
1988	58	...	457	13	500	-	6,389
1989	160	...	184	11	591	-	5,224
1990	113	64	137	9	500	-	3,555
1991	101	48	254	9	524	-	3,823
1992	101	64	219	11	545	-	3,719
1993	88	117	221	16	632	-	4,887
1994	438	114	137	19	384	-	4,973
1995	223	308	83	22	727	2	5,323
1996	176	232	136	28	579	5	4,074
1997	175	55	267	31	391	1	3,519
1998	163	122	183	39	405	0	4,443
1999	231	143	106	51	393	0	4,774
2000	129	250	141	55	214	0	4,299
2001	176	(250)	(141)	82	396	0	4,325

Table 5. Longline catches (metric tonnes) of swordfish in the WCPO

Legend : '-' no catch; '...' catches not available; '()' provisional estimates only.

YEAR	AMERICAN SAMOA	AUSTRALIA DOMESTIC	AUSTRALIA-JAPAN JV	CHINA	COOK ISLANDS	FEDERATED STATES OF MICRONESIA	FIJI	FRENCH POLYNESIA	INDONESIA	JAPAN COASTAL
1950	-	-	-	-	-	-	-	-	...	...
1951	-	-	-	-	-	-	-	-	...	...
1952	-	-	-	-	-	-	-	-	...	...
1953	-	-	-	-	-	-	-	-	...	...
1954	-	-	-	-	-	-	-	-	...	...
1955	-	-	-	-	-	-	-	-	...	...
1956	-	-	-	-	-	-	-	-	...	...
1957	-	-	-	-	-	-	-	-	...	...
1958	-	-	-	-	-	-	-	-	...	...
1959	-	-	-	-	-	-	-	-	...	...
1960	-	-	-	-	-	-	-	-	...	...
1961	-	-	-	-	-	-	-	-	...	...
1962	-	-	-	-	-	-	-	-	...	...
1963	-	-	-	-	-	-	-	-	...	...
1964	-	-	-	-	-	-	-	-	...	...
1965	-	-	-	-	-	-	-	-	...	...
1966	-	-	-	-	-	-	-	-	...	...
1967	-	-	-	-	-	-	-	-	...	...
1968	-	-	-	-	-	-	-	-	...	...
1969	-	-	-	-	-	-	-	-	...	...
1970	-	-	-	-	-	-	-	-	...	...
1971	-	-	-	-	-	-	-	-	...	...
1972	-	-	-	-	-	-	-	-	...	...
1973	-	-	-	-	-	-	-	-	...	...
1974	-	-	-	-	-	-	-	-	...	...
1975	-	-	-	-	-	-	-	-	...	...
1976	-	-	-	-	-	-	-	-	...	...
1977	-	-	-	-	-	-	-	-	...	...
1978	-	-	-	-	-	-	-	-	61	...
1979	-	-	-	-	-	-	-	-	64	...
1980	-	-	-	-	-	-	-	-	74	...
1981	-	-	-	-	-	-	-	-	91	...
1982	-	-	-	-	-	-	-	-	181	...
1983	-	-	-	-	-	-	-	-	53	...
1984	-	-	-	-	-	-	-	-	84	...
1985	-	0	-	-	-	-	-	-	124	...
1986	-	0	-	-	-	-	-	-	123	...
1987	-	21	-	-	-	-	-	-	465	...
1988	-	19	-	3	-	-	-	-	489	...
1989	-	13	...	11	-	-	1	-	258	...
1990	-	19	...	35	-	-	5	1	277	...
1991	-	50	...	78	-	0	17	7	305	...
1992	-	40	...	209	-	2	25	24	314	...
1993	-	26	...	494	-	3	39	64	314	...
1994	-	34	...	976	22	4	0	72	231	...
1995	0	52	...	815	28	2	211	61	349	...
1996	1	458	-	464	9	1	167	84	399	...
1997	2	1,405	-	282	-	4	78	56	395	...
1998	2	1,770	-	252	-	6	92	58	568	...
1999	0	1,884	-	523	-	6	104	66	595	...
2000	1	1,699	-	481	-	6	118	(49)	(595)	...
2001	2	1,433	-	(481)	-	6	115	(79)	(595)	...

Table 5. Longline catches (metric tonnes) of swordfish in the WCPO (continued)

YEAR	JAPAN OFFSHORE AND DW	KIRIBATI	KOREA	MARSHALL ISLANDS	NEW CALEDONIA	NEW ZEALAND	PAPUA NEW GUINEA	PHILIPPINES	SAMOA	SOLOMON ISLANDS
1950	...	-	-	-	-	-	-	...	-	-
1951	...	-	-	-	-	-	-	...	-	-
1952	...	-	-	-	-	-	-	...	-	-
1953	...	-	-	-	-	-	-	...	-	-
1954	...	-	-	-	-	-	-	...	-	-
1955	...	-	-	-	-	-	-	...	-	-
1956	...	-	-	-	-	-	-	...	-	-
1957	...	-	-	-	-	-	-	...	-	-
1958	...	-	...	-	-	-	-	...	-	-
1959	...	-	...	-	-	-	-	...	-	-
1960	...	-	...	-	-	-	-	...	-	-
1961	...	-	...	-	-	-	-	...	-	-
1962	9,860	-	...	-	-	-	-	...	-	-
1963	9,398	-	...	-	-	-	-	...	-	-
1964	5,581	-	...	-	-	-	-	...	-	-
1965	7,842	-	...	-	-	-	-	...	-	-
1966	9,198	-	...	-	-	-	-	...	-	-
1967	9,942	-	...	-	-	-	-	...	-	-
1968	8,632	-	...	-	-	-	-	...	-	-
1969	7,784	-	...	-	-	-	-	...	-	-
1970	6,213	-	...	-	-	-	-	30	-	-
1971	7,131	-	...	-	-	-	-	33	-	-
1972	6,555	-	...	-	-	-	-	34	-	-
1973	5,792	-	...	-	-	-	-	41	-	0
1974	6,339	-	...	-	-	-	-	48	-	-
1975	6,682	-	23	-	-	-	-	49	-	-
1976	7,859	-	422	-	-	-	-	41	-	1
1977	7,752	-	166	-	-	-	-	58	-	1
1978	7,937	-	127	-	-	-	-	35	-	1
1979	8,803	-	211	-	-	-	-	46	-	2
1980	6,573	-	227	-	-	-	-	59	-	3
1981	7,956	-	317	-	-	-	-	81	-	1
1982	6,894	-	183	-	-	-	-	95	-	1
1983	7,942	-	80	-	2	-	-	142	-	2
1984	7,583	-	144	-	6	-	-	65	-	1
1985	10,223	-	219	-	6	-	-	91	-	1
1986	9,414	-	180	-	14	-	-	121	-	-
1987	9,493	-	292	-	17	-	-	190	-	-
1988	9,641	-	225	-	5	-	-	159	-	-
1989	6,897	-	330	-	7	12	-	174	-	-
1990	6,404	-	361	-	13	80	-	111	-	-
1991	5,315	-	161	-	15	42	-	131	-	-
1992	8,821	-	288	0	9	29	-	61	-	-
1993	9,194	-	300	2	9	93	0	53	7	-
1994	8,319	-	280	0	8	94	1	71	17	-
1995	6,974	0	291	2	10	108	0	67	49	0
1996	7,470	0	200	...	10	182	0	67	49	-
1997	7,616	...	167	-	9	282	2	74	114	-
1998	(7,083)	...	430	-	26	564	2	87	95	1
1999	(7,083)	...	1,294	-	17	1,004	(4)	99	124	1
2000	(7,083)	...	1,505	-	17	975	(46)	99	123	1
2001	(7,083)	...	1,956	-	15	1,029	(25)	104	22	2

Table 5. Longline catches (metric tonnes) of swordfish in the WCPO (continued)

YEAR	TAIWAN DISTANT- WATER	TAIWAN OFFSHORE MICRONESIA	TAIWAN OFFSHORE TAIWAN	TONGA	UNITED STATES	VANUATU	TOTAL
1950	-	-	...	-	-	-	...
1951	-	-	...	-	-	-	...
1952	-	-	...	-	-	-	...
1953	-	-	...	-	-	-	...
1954	...	-	...	-	-	-	...
1955	...	-	...	-	-	-	...
1956	...	-	...	-	-	-	...
1957	...	-	...	-	-	-	...
1958	...	-	367	-	-	-	...
1959	...	-	427	-	-	-	...
1960	...	-	520	-	-	-	...
1961	...	-	318	-	-	-	...
1962	...	-	494	-	-	-	10,354
1963	...	-	343	-	-	-	9,741
1964	...	-	358	-	-	-	5,939
1965	...	-	331	-	-	-	8,173
1966	...	-	588	-	-	-	9,786
1967	16	-	646	-	-	-	10,603
1968	46	-	763	-	-	-	9,440
1969	110	-	843	-	-	-	8,737
1970	79	-	904	-	-	-	7,226
1971	95	-	992	-	-	-	8,251
1972	96	-	862	-	-	-	7,548
1973	115	-	860	-	-	-	6,809
1974	109	-	816	-	-	-	7,312
1975	121	-	899	-	-	-	7,773
1976	98	-	613	-	-	-	9,034
1977	64	-	542	-	-	-	8,583
1978	92	-	546	-	-	-	8,799
1979	201	-	661	-	-	-	9,988
1980	137	-	603	-	0	-	7,676
1981	102	-	656	-	0	-	9,204
1982	56	-	855	5	0	-	8,272
1983	44	-	783	5	0	-	9,053
1984	82	-	733	6	0	-	8,703
1985	52	-	566	6	0	-	11,288
1986	31	-	456	6	0	-	10,345
1987	30	...	1,328	8	0	-	11,844
1988	41	...	777	7	0	-	11,367
1989	31	...	1,390	6	273	-	9,403
1990	107	551	462	5	1,909	-	10,340
1991	65	415	366	5	4,500	-	11,471
1992	117	548	666	6	5,276	-	16,435
1993	78	635	568	8	5,911	-	17,797
1994	217	978	559	10	3,137	-	15,030
1995	215	1,098	657	12	2,660	2	13,663
1996	110	911	662	15	1,969	3	13,232
1997	117	158	1,428	17	3,532	1	15,738
1998	98	653	1,158	21	3,682	0	16,648
1999	176	526	1,477	27	4,384	0	19,394
2000	129	661	1,685	29	4,738	0	20,040
2001	176	(661)	(1,685)	44	1,996	0	17,510

Table 6. Purse-seine catches (metric tonnes) of blue marlin in the WCPO

Legend : '-' no catch; '...' catches not available; '()' provisional estimates only.

Refer to methodology described in Williams and Whitelaw (2000) for source of estimates

Year	AU	FM	ID	JP	KI	KR	MH	MX	PG	PH	SB	ES	TW	US	VU	TOTAL
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	1	0	0	0	0	0	19	0	0	0	0	0	20
1971	0	0	0	26	0	0	0	0	0	25	0	0	0	0	0	51
1972	0	0	0	37	0	0	0	0	0	28	0	0	0	0	0	65
1973	0	0	0	37	0	0	0	0	0	44	0	0	0	0	0	81
1974	0	0	0	24	0	0	0	0	0	20	0	0	0	0	0	44
1975	0	0	0	27	0	0	0	0	0	18	0	0	0	0	0	45
1976	0	0	0	36	0	0	0	0	0	15	0	0	0	0	0	51
1977	0	0	0	32	0	0	0	0	0	21	0	0	0	0	0	52
1978	0	0	0	34	0	0	0	0	0	13	0	0	0	0	0	48
1979	0	0	0	47	0	0	0	0	0	20	0	0	0	0	0	68
1980	0	0	11	50	0	0	0	0	0	14	0	0	0	0	0	75
1981	1	0	12	66	0	1	0	0	0	21	0	0	0	18	0	119
1982	0	0	11	79	0	2	0	0	0	24	0	0	0	33	0	149
1983	0	0	13	75	0	1	0	0	0	39	0	0	4	54	0	186
1984	0	0	11	102	0	2	0	3	0	29	2	0	10	68	0	227
1985	0	0	11	106	0	2	0	0	0	35	2	0	14	37	0	207
1986	0	0	15	101	0	3	0	0	0	34	2	0	19	20	0	192
1987	0	0	18	98	0	6	0	0	0	60	2	0	34	22	0	239
1988	0	0	14	99	0	5	0	0	0	34	3	0	42	20	0	218
1989	0	0	16	89	0	6	0	0	0	56	3	0	78	36	0	284
1990	3	0	15	76	0	13	0	0	0	96	3	0	131	35	0	371
1991	3	1	12	64	0	21	0	0	0	81	2	0	130	43	0	356
1992	2	4	10	64	0	19	0	0	0	58	3	0	86	42	0	288
1993	2	6	9	69	0	14	0	0	0	41	3	0	45	46	0	236
1994	1	8	9	58	0	15	0	0	0	34	3	0	42	43	0	213
1995	1	4	10	65	1	12	0	0	3	44	3	0	45	37	1	227
1996	1	3	13	70	1	13	0	0	2	58	4	0	58	40	5	266
1997	1	3	18	66	1	14	0	0	12	82	7	0	53	43	6	307
1998	1	4	23	54	2	17	0	0	12	81	6	1	60	37	8	303
1999	2	3	19	52	1	18	0	0	11	62	7	1	47	31	9	263
2000	2	6	16	57	2	22	1	0	15	58	2	2	47	28	6	264
2001	(0)	(5)	(16)	(42)	(1)	(23)	(5)	(0)	(22)	(6)	(1)	(2)	(41)	(22)	(0)	(186)

Table 7. Purse-seine catches (metric tonnes) of black marlin in the WCPO

Legend : '-' no catch; '...' catches not available; '()' provisional estimates only.

Refer to methodology described in Williams and Whitelaw (2000) for source of estimates

Year	AU	FM	ID	JP	KI	KR	MH	MX	PG	PH	SB	ES	TW	US	VU	TOTAL
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	1	0	0	0	0	0	15	0	0	0	0	0	15
1971	0	0	0	12	0	0	0	0	0	20	0	0	0	0	0	32
1972	0	0	0	17	0	0	0	0	0	22	0	0	0	0	0	39
1973	0	0	0	17	0	0	0	0	0	34	0	0	0	0	0	51
1974	0	0	0	11	0	0	0	0	0	16	0	0	0	0	0	27
1975	0	0	0	12	0	0	0	0	0	14	0	0	0	0	0	26
1976	0	0	0	16	0	0	0	0	0	12	0	0	0	0	0	28
1977	0	0	0	14	0	0	0	0	0	16	0	0	0	0	0	30
1978	0	0	0	15	0	0	0	0	0	11	0	0	0	0	0	26
1979	0	0	0	22	0	0	0	0	0	16	0	0	0	0	0	37
1980	0	0	8	23	0	0	0	0	0	10	0	0	0	0	0	43
1981	0	0	10	29	0	2	0	0	0	16	0	0	0	14	0	71
1982	0	0	9	36	0	5	0	0	0	19	0	0	0	24	0	92
1983	0	0	10	37	0	3	0	0	0	30	0	0	3	41	0	124
1984	0	0	9	49	0	5	0	2	0	22	1	0	8	51	0	148
1985	0	0	9	50	0	5	0	0	0	25	1	0	12	29	0	130
1986	0	0	12	47	0	7	0	0	0	26	1	0	15	15	0	123
1987	0	0	14	46	0	13	0	0	0	45	1	0	28	17	0	163
1988	0	0	11	46	0	12	0	0	0	25	2	0	34	17	0	147
1989	0	0	12	43	0	13	0	0	0	38	2	0	63	31	0	203
1990	2	0	11	37	0	25	0	0	0	62	2	0	106	30	0	275
1991	2	0	9	33	0	39	0	0	0	53	1	0	104	40	0	282
1992	1	3	7	32	0	39	0	0	0	39	2	0	59	36	0	220
1993	2	5	7	36	0	29	0	0	0	27	2	0	28	39	0	175
1994	1	6	7	29	0	32	0	0	0	23	2	0	28	38	0	167
1995	1	3	8	33	1	26	0	0	2	29	2	0	28	32	1	166
1996	0	2	10	34	2	28	0	0	1	40	3	0	38	29	4	193
1997	1	3	15	33	1	29	0	0	8	55	4	0	34	31	6	221
1998	1	3	19	29	2	33	0	0	7	56	3	1	34	27	7	223
1999	2	2	15	29	1	29	0	0	7	43	4	1	33	17	7	189
2000	1	6	13	32	2	34	1	0	10	42	1	1	27	18	4	192
2001	(0)	(5)	(13)	(24)	(1)	(36)	(4)	(0)	(15)	(4)	(1)	(1)	(22)	(15)	(0)	(141)

Table 8. Total WCPO commercial fishery catches (metric tonnes) of billfish by species

YEAR	LONGLINE					PURSE SEINE		
	Blue Marlin	Black Marlin	Striped Marlin	Sword-fish	Total	Blue Marlin	Black Marlin	Total
1950	...	...	...	...	...	-	-	0
1951	...	...	...	...	...	-	-	0
1952	...	...	...	...	...	-	-	0
1953	...	...	...	...	...	-	-	0
1954	...	...	...	...	...	-	-	0
1955	...	...	...	...	...	-	-	0
1956	...	...	...	...	...	-	-	0
1957	...	...	...	...	...	-	-	0
1958	...	...	...	...	...	-	-	0
1959	...	...	...	...	...	-	-	0
1960	...	...	...	...	...	-	-	0
1961	...	...	...	...	...	-	-	0
1962	14,197	2,091	15,207	10,354	41,849	-	-	0
1963	11,583	2,100	12,384	9,741	35,808	-	-	0
1964	10,221	1,695	17,020	5,939	34,875	-	-	0
1965	8,263	2,213	13,294	8,173	31,942	-	-	0
1966	8,711	2,005	9,562	9,786	30,064	-	-	0
1967	7,481	1,654	11,366	10,603	31,104	0	0	0
1968	6,986	1,717	11,629	9,440	29,773	1	0	1
1969	7,405	1,906	7,869	8,737	25,918	0	0	0
1970	10,424	2,209	6,850	7,226	26,708	20	15	36
1971	6,690	2,744	5,400	8,251	23,086	51	32	83
1972	7,977	2,268	4,095	7,548	21,888	65	39	104
1973	7,335	2,234	4,494	6,809	20,872	81	51	132
1974	7,020	1,989	4,068	7,312	20,389	44	27	70
1975	6,455	2,155	3,181	7,773	19,565	45	26	71
1976	6,167	1,189	2,866	9,034	19,256	51	28	79
1977	6,486	1,155	2,348	8,583	18,573	52	30	83
1978	7,787	2,052	3,346	8,799	21,984	48	26	74
1979	7,849	2,299	4,570	9,988	24,707	68	37	105
1980	8,579	1,395	3,999	7,676	21,650	75	43	118
1981	8,773	1,917	4,384	9,204	24,278	119	71	190
1982	9,277	1,966	4,180	8,272	23,695	149	92	242
1983	7,364	1,709	3,072	9,053	21,198	186	124	311
1984	9,162	1,259	4,298	8,703	23,422	227	148	375
1985	7,842	991	4,743	11,288	24,864	207	130	337
1986	8,556	1,013	5,175	10,345	25,090	192	123	315
1987	11,438	1,368	4,116	11,844	28,766	239	163	402
1988	10,687	2,033	6,389	11,367	30,476	218	147	365
1989	9,265	977	5,224	9,403	24,870	284	203	487
1990	8,223	1,016	3,555	10,340	23,134	371	275	646
1991	8,515	1,293	3,823	11,471	25,102	356	282	638
1992	10,339	1,411	3,719	16,435	31,904	288	220	507
1993	12,366	1,257	4,887	17,797	36,307	236	175	411
1994	12,528	1,621	4,973	15,030	34,152	213	167	380
1995	14,573	1,226	5,323	13,663	34,785	227	166	393
1996	12,433	870	4,074	13,232	30,608	266	193	459
1997	10,899	925	3,519	15,738	31,080	307	221	528
1998	12,820	1,227	4,443	16,648	35,138	303	223	526
1999	13,196	1,569	4,774	19,394	38,932	263	189	452
2000	12,957	1,430	4,299	20,040	38,726	264	192	457
2001	14,137	1,533	4,325	17,510	37,504	(186)	(141)	(327)

Table 9. Total WCPO commercial catches (metric tonnes) of blue marlin, black marlin, striped marlin

YEAR	ALL COMMERCIAL FISHERIES								Total
	Blue Marlin	%	Black Marlin	%	Striped Marlin	%	Sword-fish	%	
1950	...		...		...		...		...
1951	...		...		...		...		...
1952	...		...		...		...		...
1953	...		...		...		...		...
1954	...		...		...		...		...
1955	...		...		...		...		...
1956	...		...		...		...		...
1957	...		...		...		...		...
1958	...		...		...		...		...
1959	...		...		...		...		...
1960	...		...		...		...		...
1961	...		...		...		...		...
1962	14,197	34%	2,091	5%	15,207	36%	10,354	25%	41,849
1963	11,583	32%	2,100	6%	12,384	35%	9,741	27%	35,808
1964	10,221	29%	1,695	5%	17,020	49%	5,939	17%	34,875
1965	8,263	26%	2,213	7%	13,294	42%	8,173	26%	31,942
1966	8,711	29%	2,005	7%	9,562	32%	9,786	33%	30,064
1967	7,481	24%	1,654	5%	11,366	37%	10,603	34%	31,104
1968	6,987	23%	1,717	6%	11,629	39%	9,440	32%	29,774
1969	7,405	29%	1,906	7%	7,869	30%	8,737	34%	25,918
1970	10,444	39%	2,224	8%	6,850	26%	7,226	27%	26,743
1971	6,741	29%	2,776	12%	5,400	23%	8,251	36%	23,169
1972	8,042	37%	2,307	10%	4,095	19%	7,548	34%	21,992
1973	7,415	35%	2,286	11%	4,494	21%	6,809	32%	21,004
1974	7,064	35%	2,016	10%	4,068	20%	7,312	36%	20,459
1975	6,500	33%	2,181	11%	3,181	16%	7,773	40%	19,636
1976	6,218	32%	1,217	6%	2,866	15%	9,034	47%	19,335
1977	6,539	35%	1,185	6%	2,348	13%	8,583	46%	18,655
1978	7,835	36%	2,078	9%	3,346	15%	8,799	40%	22,057
1979	7,916	32%	2,337	9%	4,570	18%	9,988	40%	24,811
1980	8,654	40%	1,438	7%	3,999	18%	7,676	35%	21,767
1981	8,892	36%	1,988	8%	4,384	18%	9,204	38%	24,468
1982	9,426	39%	2,059	9%	4,180	17%	8,272	35%	23,937
1983	7,551	35%	1,833	9%	3,072	14%	9,053	42%	21,509
1984	9,389	39%	1,407	6%	4,298	18%	8,703	37%	23,798
1985	8,049	32%	1,121	4%	4,743	19%	11,288	45%	25,202
1986	8,748	34%	1,136	4%	5,175	20%	10,345	41%	25,405
1987	11,676	40%	1,531	5%	4,116	14%	11,844	41%	29,167
1988	10,905	35%	2,180	7%	6,389	21%	11,367	37%	30,841
1989	9,550	38%	1,180	5%	5,224	21%	9,403	37%	25,357
1990	8,594	36%	1,291	5%	3,555	15%	10,340	43%	23,780
1991	8,871	34%	1,575	6%	3,823	15%	11,471	45%	25,740
1992	10,626	33%	1,630	5%	3,719	11%	16,435	51%	32,411
1993	12,602	34%	1,432	4%	4,887	13%	17,797	48%	36,718
1994	12,741	37%	1,788	5%	4,973	14%	15,030	44%	34,532
1995	14,800	42%	1,391	4%	5,323	15%	13,663	39%	35,178
1996	12,699	41%	1,063	3%	4,074	13%	13,232	43%	31,067
1997	11,205	35%	1,145	4%	3,519	11%	15,738	50%	31,608
1998	13,123	37%	1,450	4%	4,443	12%	16,648	47%	35,664
1999	13,459	34%	1,758	4%	4,774	12%	19,394	49%	39,385
2000	13,221	34%	1,622	4%	4,299	11%	20,040	51%	39,183
2001	14,323	38%	1,673	4%	4,325	11%	17,510	46%	37,830

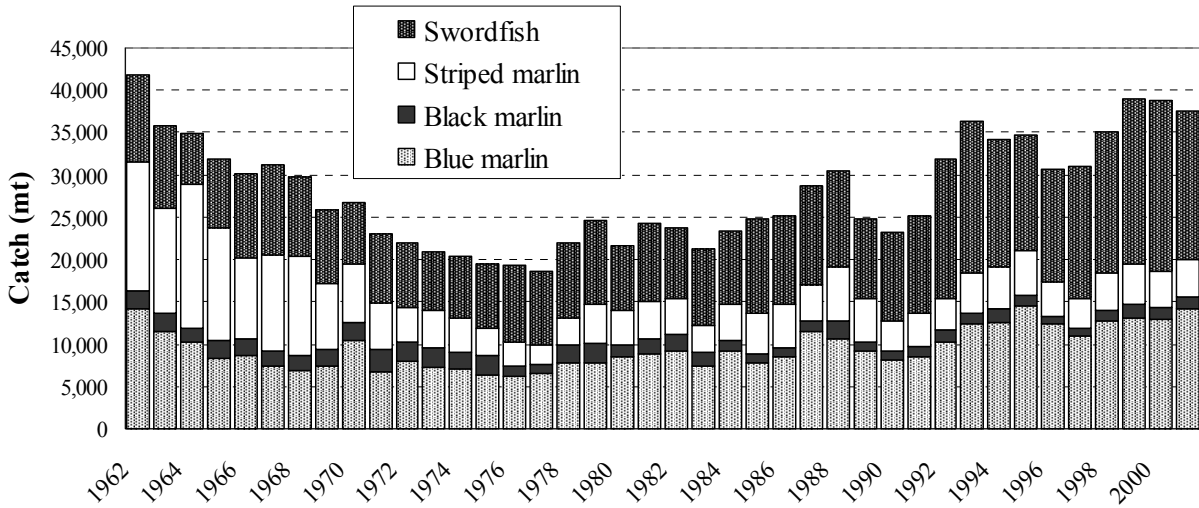


Figure 2. Annual catch of billfish species in the WCPO longline fishery (2001 is provisional)

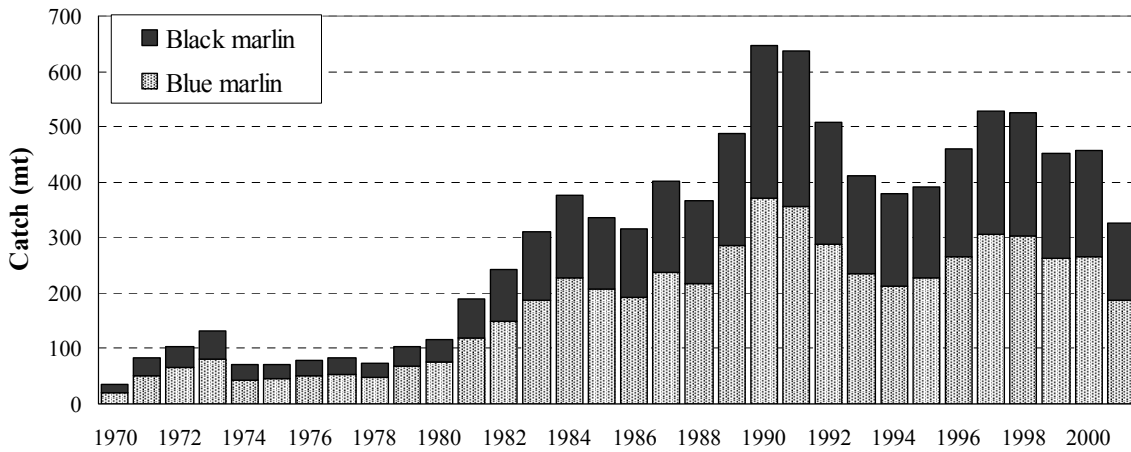


Figure 3. Annual catch of billfish species in the WCPO purse seine fishery (2001 is provisional)

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