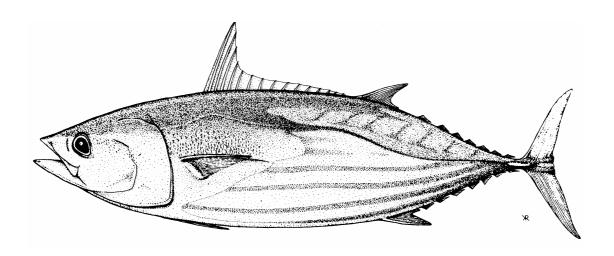
WCPFC-SC1 ST WP-1



STATUS OF DATA COLLECTION, COMPILATION AND DISSEMINATION

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INTRODUCTION

The status of the collection, compilation and dissemination of tuna fishery data for the Western and Central Pacific Ocean is reported. The 'collection of data' refers to the use of forms by national agencies to record various types of data (e.g., logsheets or logbooks to record operational catch and effort data, observer data collection forms, port sampling forms, records of unloadings, etc.). The 'compilation of data' refers to the provision of data by national agencies to the Oceanic Fisheries Programme (OFP) of the Secretariat of the Pacific Community (SPC). The 'dissemination of data' refers to the release of data by the OFP to the users of the data.

DATA COLLECTION

Indonesia and the Philippines Data Collection Project

In late 2003, the OFP developed a proposal for monitoring the catches of highly migratory species in the Philippines and the Pacific Ocean waters of Indonesia, in collaboration with colleagues in Australia, Indonesia and the Philippines (SCTB17 Information Paper INF–SWG–3). Funding of AUD 34,655, USD 20,000 and USD 60,000 has been contributed by Australia, Chinese Taipei and the United States of America respectively. New Zealand will contribute USD 60,000 later in 2005. The Australian funding was for a review of the tuna fisheries and the current statistical system in the Philippines, and Australia is also expected to fund a similar review in eastern Indonesia in 2006.

Project activities commenced in the Philippines with the review of the fisheries and the statistical system in the Philippines by Dr Antony Lewis, from 8 to 31 July 2004 (SC1 Information Paper ST IP–6), and a workshop to consider his review and to plan port sampling and surveys was held from 20 to 21 October 2004 (SC1 Information Paper ST IP–4). Commencing in January 2005, the Bureau of Fisheries and Aquatic Resources (BFAR) commenced port sampling and the Bureau of Agricultural Statistics (BAS) conducted surveys with IPDCP funds. A catch and effort logsheet system, initially for over 50 large purse seiners, which may catch about 200,000 tonnes annually, is in the process of implementation by BFAR, utilizing a modified version of the regional purse seine logsheet developed by the SPC/FFA Tuna Fishery Data Collection Committee.

Project activities will commence in eastern Indonesia when an additional USD 150,000 have been contributed for the IPDCP.

Port Sampling and Observer Programmes

Figure 1 shows the locations of port sampling programmes supported by the OFP.

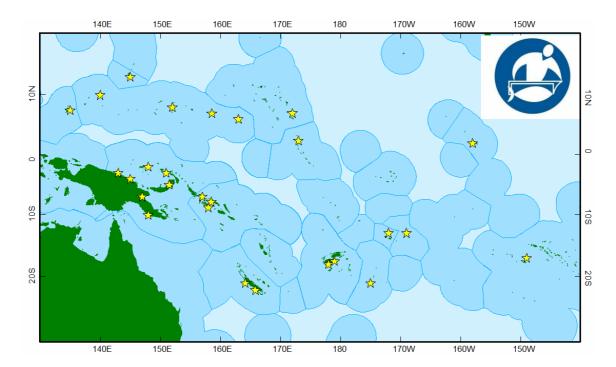


Figure 1. Location of port sampling programmes supported by the OFP

Highlights of the port sampling programmes supported by the OFP are as follows:

- Sampling of longliners and purse seiners in the Federated States of Micronesia decreased, although this was partially offset by increased sampling in the Marshall Islands.
- Port sampling of longliners in Fiji has improved through rigorous application of the standard port sampling protocol.
- In French Polynesia, the procedure for unloading fish from longliners has prevented sampling according to the standard protocol; hence, the quality of the data will be reviewed in the near future.
- Majuro, Marshall Islands has become a busy transhipment port and good sampling of FSM Arrangement vessels should be possible, if suitable resources are provided.
- Efforts are being made in 2005 to recommence the port sampling programme.

Highlights of the observer programmes supported by the OFP are as follows:

- The Cook Islands would like to establish an observer prgramme to cover the local longline fleet, but attempts to train locals were not successful.
- In the Federated States of Micronesia, observer activity has continued to decrease. Several experienced observers have left the programme and new observerss have recently been trained to replace them.
- Longline observer activity has increased in 2005 in conjunction with decreased port sampling. Further improvements in debriefing arenecessary, as is common to most observer programmes supported by the OFP.
- The observer programme in French Polynesia is small, but regularly produces data. The *Service de la Pêche* has recently budgeted to continue the observer programme when OFP funding terminates in February 2006.

- In Kiribati, the lack of visits to Kiribati ports by foreign vessels and the need to place observers in other ports in the region have hampered the programme. The programme coordinator has been funded by the OFP, but the programme has still relied on the OFP-funded coordinator based in the Marshall Islands.
- The observer programme in the Marshall Islands has made small improvements in the coverage of purse seiners and big improvements in the coverage of local longliners.
- The small programme in New Caledonia has been steady, but current funding terminates in february 2006.
- Niue plans to establish an observer programme in 2005, once longliners commence delivering their catches to the new processing plant.
- In Palau, two recently-trained observers have been active.
- The programme in Papua New Guinea remains strong; however, the timeliness of the provision of data to the OFP needs to be improved.
- The programme in Solomon Islands is improving after the recent period of political turmoil.
- In Tonga, observers have been active on joint-venture longliners, which left the fishery early in 2005. The observer activity may be transferred to the domestic fishery.
- Samoa plans to establish an observer programme in 2005. Arrangements are being made for the training of observers, which will be finded bythe OFP.
- In the observer programmes of the United States Treaty and the FSM Arrangement, which are supported by the Forum Fisheries Agency, the target coverage levels of 20% has been maintained. Decreased observer activity on United States vessels and an increase on FSM Arrangement vessels corresponds to changes in the number of vessels in those fleets.

In Australia, observers have been deployed on domestic longliners since 2001 as part of a program to test the effectiveness of seabird mitigation devices (SC1 Fishery Report FR WP–13). Since July 2003, observers have been deployed more broadly across the fishery with more general duties, such as the collection of size data on fishing gear and the size- and species composition of catches.

In New Zealand, only longline fisheries have received adequate observer coverage to enable independent characterization of the bycatch, including discards of non-commercial species (SC1 Fishery Report FR WP-1). The Ministry of Fisheries is planning to extend observer coverage to the purse seine fishery and is in the process of developing observer data collection forms for the troll fishery using SPC forms as a starting point. The target observer coverage for the longline fishery is 10% of the catch.

In the Republic of Korea, the Ministry of Maritime Affairs and Fisheries initiated the development of an observer program for distant-water fisheries, including tuna fisheries, in 2002 (SC1 Fishery Report FR WP–2). The purpose of this program is to meet the requirements of relevant regional fishery bodies such as the WCPFC. In 2004, a total of three trained observers were deployed to monitor Korean tuna longline and purse seine fisheries, of which two cruises were conducted in the Pacific Ocean. A summary of their activities is presented in SC1 Information paper ST IP–3. A similar level of observer activities will be carried out for the Pacific tuna fisheries in 2005.

In Chinese Taipei, the Fisheries Administration has launched an experimental observer program, with two observers working in the Pacific Ocean during 2002–2004. The port sampling programme commenced in 1997 covering offshore longliners based in domestic ports.

DATA COMPILATION

Coverage rates

Tables of coverage rates for operational (logsheet) catch and effort data, unloadings data, port sampling data and observer data are given for each gear type, and all gear types combined, in Appendix I. Figure 1 presents the coverage rates since 1970. Coverage rates for 2003–2004 will increase as additional data are compiled.

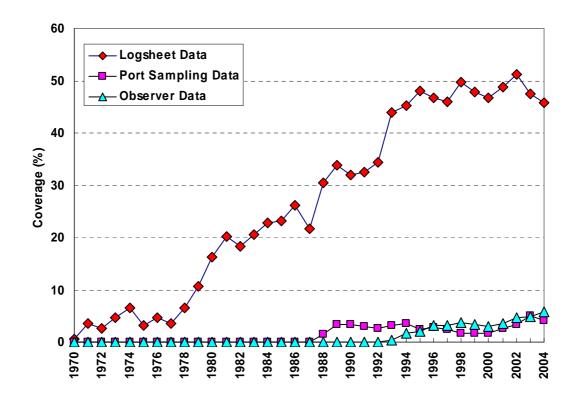


Figure 2. Coverage of tuna fisheries in the Convention Area by logsheet catch and effort data, port sampling data and observer data compiled by the OFP

The principle gaps in coverage by operational catch and effort data include the domestic fisheries of the Philippines and Indonesia, the distant-water longline fleets of Korea and Chinese Taipei, and the longline, pole-and-line and purse-seine fleets of Japan on the high seas. More information regarding data gaps, together with summaries of the availability of catch and effort data and size composition data, are given in SC1 Information Paper ST–IP–2.

Data Compiled by the OFP from Fishing States, Territories and Entities

The compilation of data by the OFP is reviewed for each fishing state, territory or entity in Appendix II.

The deadline established by the Standing Committee on Tuna and Billfish for the provision of annual catch estimates was April 30. Table 1 shows the dates on which annual catch estimates were provided to the OFP. No estimates of catches during 2004 were available prior to SC1 for the Chinese longline and purse-seine fleets, and the Solomon Islands longline, pole-and-line and purse-seine fleets.

Table 1. Provision of annual catch estimates to the OFP

<u></u>		
COUNTRY / TERRITORY / ENTITY	2003	2004
Australia	30 Apr 2004	5 May 2005
Canada	21 May 2005	21 May 2005
China	6	
Cook Islands	2	8
Federated States of Micronesia	1	8
Fiji Islands	21 Jul 2004	25 May 2005
French Polynesia	29 May 2004	28 Jul 2005
Indonesia	27 Apr 2004	13 May 2005
Japan	3	31 May 2005
Kiribati	1	8
Republic of Korea	7 Jul 2004	30 Apr 2005
Marshall Islands	1	8
New Caledonia	16 Mar 2004	18 May 2005
New Zealand	23 Jul 2004	9 May 2005
Palau	1	8
Papua New Guinea	4	15 Jul 2005
Philippines	17 May 2004	29 Apr 2005
Samoa	5	7 Jun 2005
Solomon Islands	7	
Spain		28 Jul 2005
Chinese Taipei	21 Apr 2004	31 May 2005
Tonga	1	11 May 2005
United States	21 May 2004	4 Aug 2005
Vanuatu	1	8

Notes to Table 1:

- 1 Catches were estimated from data held by the OFP on 15 July 2004.
- 2 Catch estimates were taken from "Cook Islands Longline Catch Summary 2003", Ministry of Marine Resources, March 2004, which was obtained by SPC on 6 July 2004.
- 3 Longline and purse-seine catches were taken from a SCTB17 national fisheries report; no estimates of pole-and-line catches were submitted.
- 4 Catch estimates were taken from a draft SCTB17 national fisheries report, which was obtained by SPC on 2 July 2004.
- 5 Catch estimates were taken from a draft SCTB17 national fisheries report, which was obtained by SPC on 18 July 2004.
- 6 Longline and purse-seine catch estimates were taken from a SCTB17 national fisheries report, which was obtained by SPC on 9 August 2004.
- 7 Longline, pole-and-line and purse-seine catch estimates were taken from a SCTB17 national fisheries report, which was obtained by SPC on 9 August 2004.
- 8 Catches were estimated from data held by the OFP on 15 July 2005.

The deadline established by the Standing Committee on Tuna and Billfish for the provision of aggregated catch and effort data was also April 30. The most recent aggregated catch and effort data were provided to the OFP from Japan on 22 February and 1 June 2005; from the Republic of Korea on 13 May and 8 June 2005; from Chinese Taipei on 31 May 2005. Aggregated catch and effort covering Chinese longline and purse seine have not yet been provided during 2005.

DATA DISSEMINATION

Figure 3 shows the number of instances of (a) releases of public domain catch and effort data via the OFP website, (b) releases of data by the OFP, other than via the website, and (c) releases of statistics and other information by the OFP, during each twelve-month period from July to June. From July 2004 to June 2005, there were 166 releases of public domain data via the OFP website (down from 121 during the previous period), 20 releases of data by the OFP other than via the website (down from 21), and 23 releases of statistics and other information (up from 55). There were a total of 209 releases of data and other information from July 2004 to June 2005 (up from 197 during the previous period).

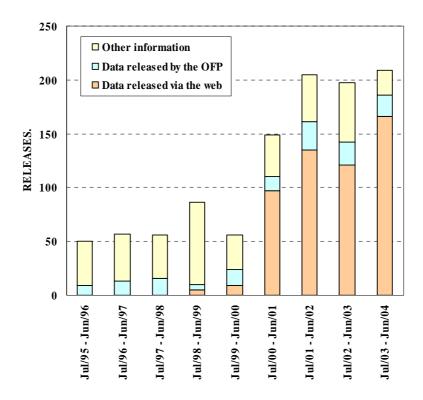


Figure 3. Dissemination of data by the OFP

All instances of dissemination of data by the OFP from 1 July 2004 to 30 June 2005, other than via the OFP website, are listed in Appendix III.

APPENDIX I. COVERAGE OF WCPO TUNA FISHERIES BY DATA HELD BY THE OFP

The tables below present the coverage of total catches of the four main tuna species (albacore, bigeye, skipjack and yellowfin) by the following data held by the OFP: logsheet catch and effort data, unloadings data, length samples taken by port samplers, and catches recorded by observers.

The coverage rates for logsheet catch and effort data refer to catch and effort data for individual fishing operations (longline sets, pole-and-line days fished or searched, purse-seine sets and troll days fished) that are held by the OFP. The OFP also holds catch and effort data aggregated by time-area strata covering the Japanese offshore and distant-water longline, pole-and-line and purse-seine fleets, and the Korean and Chinese Taipei distant-water longline fleets. These aggregated data have been provided by those fishing nations or entity; the levels of coverage of the operational data that were used to determine these aggregated data are unknown.

Coverage rates for 2003 and 2004 will increase as additional data are provided to the OFP.

Table A1. Drift net

YEAR	TOTAL	OTAL LOGSHEETS		UNLOADI	UNLOADINGS		PORT SAMPLING		ERS
ILAN	CATCH	TONNES	%	TONNES	%	TONNES	%	TONNES	%
1983	32	_	-	-	-	-	-	_	_
1984	1,581	_	-	_	-	-	-	_	-
1985	1,928	_	-	_	-	-	-	_	-
1986	1,936	_	-	_	-	-	-	_	-
1987	919	_	-	_	-	-	-	_	-
1988	5,271	_	-	_	-	-	-	_	-
1989	21,955	_	-	_	-	-	-	_	-
1990	7,426	_	-	_	_	_	_	_	_
1991	1,394	_	_	_	_	_	_	-	_

Table A2. Longline

YEAR	TOTAL	LOGSHEE	TS	UNLOADII	NGS	PORT SAM	PLING	OBSERV	ERS
ILAN	CATCH	TONNES	%	TONNES	%	TONNES	%	TONNES	%
1950	47,862	_	_	-	-	_	_	_	_
1951	33,090	_	-	_	-	-	_	_	_
1952	64,248	_	-	_	-	-	_	_	_
1953	69,792	-	-	_	_	-	_	_	_
1954	64,743	-	-	_	_	-	_	_	_
1955	68,894	_	_	_	_	_	_	_	_
1956	71,913	_	_	_	_	_	_	_	_
1957	101,508	_	_	_	_	_	_	_	_
1958	115,896	_	_	_	_	_	_	_	_
1959	109,259	_	_	_	_	_	_	_	_
1960	127,140	-	_	_	_	_	_	_	_
1961	121,451	_	_	_	_	_	_	_	_
1962	129,538	_	_	_	_	_	_	_	_
1963	122,770	_	_	_	_	_	_	_	_
1964	103,413	_	_	_	_	_	_	_	_
1965	105,983	_	_	_	_	_	_	_	_
1966	148,090	_	_	_	_	_	_	_	_
1967	127,059	_	_	_	_	_	_	_	_
1968	118,992	_	_	_	_	_		_	_
1969	120,247					_			
1970	138,279	_		_		_		_	_
1970		_	_	_	_	_		_	_
	140,132	_	_	_	_	_	_	_	_
1972	156,707	_	_	_	_	_	_	_	_
1973	164,073	-	_	_	_	_	_	_	_
1974	137,933	-	-	_	_	_	_	_	_
1975	157,357	_	-	_	_	_	_	_	_
1976	195,104	_	-	_	_	_	_	_	_
1977	206,072	_		_	_	_	_	_	_
1978	207,227	429	0.2	_	_	_	_	_	_
1979	198,475	17,387	8.8	_	_		_	_	_
1980	224,242	35,254	15.7	_	_	_	-	_	-
1981	184,532	39,133	21.2	_	_	_	-	_	
1982	171,222	40,253	23.5	_	_	_	-	2	0.0
1983	165,457	37,667	22.8	-	-	_	-	_	-
1984	153,127	39,056	25.5	_	_	-	-	1	0.0
1985	167,623	47,207	28.2	_	-	-	-	_	_
1986	144,397	27,250	18.9	-	-	-	_	_	-
1987	165,169	28,747	17.4	287	0.2	-	-	13	
1988	178,702	38,175	21.4	1,142	0.6	_	-	16	0.0
1989	153,312	40,795	26.6	4,958	3.2			7	
1990	175,260	41,261	23.5	23,358	13.3			28	0.0
1991	146,946	30,773	20.9	23,972	16.3	158	0.1	177	0.1
1992	172,552	40,846	23.7	25,122	14.6	1,916	1.1	266	
1993	155,728	44,845	28.8	33,347	21.4			326	
1994	201,428	58,773	29.2	37,777	18.8		3.1	238	
1995	196,581	60,500	30.8	35,076	17.8			242	
1996	185,505	45,314	24.4	26,359	14.2		3.1	339	
1997	203,535	45,940	22.6	20,547	10.1	6,512	3.2	328	0.2
1998	225,481	44,589	19.8	20,987	9.3		2.9	107	
1999	194,600	46,695	24.0	18,509	9.5	4,905	2.5	103	
2000	213,759	56,252	26.3	34,025	15.9	5,418	2.5	298	0.1
2001	221,613	60,153	27.1	37,433	16.9	5,037	2.3	286	0.1
2001	240,084	68,291	28.4	29,623	12.3		2.5	982	0.1
2002	224,961	60,672	27.0	29,623 14,576	6.5	5,925 5,400		586	
							2.4		
2004	214,531	56,877	26.5	10,691	5.0	6,744	3.1	440	0.2

Table A3. Pole-and-line

YEAR	TOTAL	LOGSHE	ETS	UNLOADII	NGS	PORT SAMI	PLING	OBSERVE	ERS
ILAK	CATCH	TONNES	%	TONNES	%	TONNES	%	TONNES	%
1950	47,694	_	-	_	_	_	-	_	-
1951	112,343	_	-	_	_	_	-	_	-
1952	125,000	_	_	_	_	_	-	_	_
1953	106,095	_	-	_	-	-	-	-	-
1954	122,510	_	-	_	-	-	-	-	-
1955	124,743	_	-	_	-	-	-	-	-
1956	143,559	_	-	_	-	-	_	-	-
1957	148,525	_	-	_	_	_	_	_	_
1958	160,750	_	-	_	_	_	_	_	_
1959	165,518	_	-	_	_	_	_	_	_
1960	98,956	-	_	_	_	_	_	-	-
1961	150,709	_	-	_	_	_	_	_	_
1962	166,141	_	-	_	_	_	_	_	_
1963	125,048	_	-	_	_	_	_	_	_
1964	167,137	_	-	1,414	0.8	_	_	_	_
1965	176,158	_	-	2,488	1.4	_	_	_	_
1966	241,722	_	_	2,829	1.2	_	_	_	_
1967	205,252	_	_	3,408	1.7	_	_	_	_
1968	183,982	_	_	4,849	2.6	_	_	_	_
1969	204,646	_	_	5,010	2.4	_	_	_	_
1970	226,632	2,429	1.1	8,043	3.5	_	_	_	_
1971	238,162	16,975	7.1	2,031	0.9	_	_	_	_
1972	231,302	13,195	5.7	1,428	0.6	_	_	_	_
1973	323,959	28,241	8.7	2,404	0.7	_	_	_	_
1974	366,385	41,630	11.4	7,262	2.0	_	_	_	_
1975	275,438	17,368	6.3	6,946	2.5	_	_	_	_
1976	375,676	33,601	8.9	5,656	1.5	_	_	_	_
1977	348,017	25,806	7.4	3,921	1.1	_	_	_	_
1978	404,090	51,512	12.7	9,747	2.4	_	_	_	_
1979	343,741	56,094	16.3	5,649	1.6	_	_	_	_
1980	370,578	80,996	21.9	7,226	1.9	_	_	_	_
1981	319,511	89,823	28.1	9,447	3.0	_	_	_	_
1982	285,697	38,913	13.6	4,371	1.5	_	_	_	_
1983	306,571	74,294	24.2	_	_	_	_	_	_
1984	377,645	65,226	17.3	_	_	_	_	_	_
1985	247,495	48,089	19.4	_	_	_	_	_	_
1986	316,230	94,688	29.9	_	_	_	_	_	_
1987	246,523	48,488	19.7	_	_	_	_	_	_
1988	271,927	98,276	36.1	_	_	_	_	_	_
1989	252,065	76,120	30.2	_	_	_	_	_	_
1990	180,887	42,939	23.7	_	_	_	_	_	_
1991	216,152	68,326	31.6	_	_	_	_	_	_
1992	176,615	38,857	22.0	_	_	_	_	_	_
1993	215,845	35,691	16.5	_	_	_	_	_	_
1994	181,207	40,077	22.1	3,487	1.9	_	_	_	_
1995	208,357	63,601	30.5	5,558	2.7	_	_	_	_
1996	162,684	32,097	19.7	3,913	2.4	_	_	_	_
1997	196,075	31,021	15.8	875	0.4	46	0.0	_	_
1998	189,375	43,415	22.9	21,337	11.3		0.0	554	0.3
1999	211,031	27,465	13.0	14,555	6.9	54	0.0	531	0.3
2000	179,571	15,115	8.4	- 1,550	-		_	116	0.1
2001	143,024	21,851	15.3	_	_	_	_	26	0.0
2002	163,222	17,317	10.6	_	_	_	_	1,593	1.0
2003	173,026	11,856	6.9	_	_	_	_	1,676	1.0
2003	173,020	1,050	0.6				_]	1,070	1.0
2004	173,037	1,007	0.0		_	_	_	-	-

Table A4. Purse seine

VEAD	TOTAL	LOGSH	EETS	UNLOAD	INGS	PORT SAI	MPLING	OBSER	VERS
YEAR	CATCH	TONNES	%	TONNES	%	TONNES	%	TONNES	%
1951	3,781	_	_	_	_	_	_	_	_
1952	7,320	_	_	_	_	_	_	_	_
1953	5,250	_	_	_	_	_	_	_	_
1954	8,895	_	_	_	_	_	_	_	_
1955	6,135	_	_	_	_	_	_	_	_
1956	3,777	_	_	_	_	_	_	_	_
1957	4,358	_	_	_	_	_	_	_	_
1958	14,084	_	_	_	_	_	_	_	_
1959	21,293	_	_	_	_	_	_	_	_
1960	5,224	_	_	_	_	_	_	_	_
1961	14,533	_	_	_	_	_	_	_	_
1962	18,822	_	_	_	_	_	_	_	_
1963	11,875	_	_	_	_	_	_	_	_
1964	28,884	_	_	_	_	_	_	_	_
1965	8,610	_	_	_	_	_	_	_	_
1966	16,802	_	_	_	_	_	_	_	_
1967	14,419	_	_	_	_	_	_	_	_
1968	14,876	_	_	_	_	_	_	_	_
1969	8,962	_	_	_	_	_	_	_	_
1970	8,342	_		_		_			_
1971	16,286	_	_	_	_	_	_	_	_
1972	20,008	_	_	_		_	_	_	_
1973	24,833	_	_	_		_	_	_	_
1973	17,690								_
1975	15,372	_		_		_		_	_
1975	29,635	_	_	_	_	_		_	_
1977	29,033 27,686	_	_	_	_	_		_	_
1978	39,033	_	_	_	_	_		_	_
1978	58,055 58,152	- 5,784	9.9		_	_	_	_	_
1979	84,003	18,397	21.9	_		_			_
1980	117,092	30,404	26.0		_	_	_	_	_
1982	198,357	74,265	37.4	_	_	_		_	_
1982	370,034		28.0		_	_	_	_	_
		103,532		_	_	_	_	_	_
1984	391,650	153,851	39.3	_	_	_	_	_	_
1985	345,741	134,859	39.0	_	_	_	_	_	_
1986	403,455		41.7	_	_	_	_	_	_
1987	467,310	167,005	35.7	70.004	447	40.004	- 2.4	_	_
1988	539,037	238,963	44.3	79,024	14.7	18,364	3.4	_	_
1989	585,904	317,908	54.3	144,183	24.6	42,063	7.2		_
1990	692,994	360,008	51.9	171,232	24.7	46,877	6.8	_	-
1991	892,826	432,088	48.4	223,920	25.1	47,992	5.4	_	_
1992	928,603	474,330	51.1	273,626	29.5	41,377	4.5	-	
1993	770,190	546,998	71.0	405,055	52.6	39,611	5.1	5,653	
1994	862,446	622,950	72.2	554,225	64.3	49,458	5.7	27,132	
1995	802,317	642,104	80.0	412,181	51.4	33,614	4.2	31,170	
1996	746,265	626,570	84.0	390,080	52.3	37,270	5.0	46,149	
1997	824,111	668,911	81.2	438,460	53.2	31,902	3.9	50,085	
1998	1,093,792	904,537	82.7	455,564	41.7	27,118	2.5	75,686	
1999	910,257	800,170	87.9	320,635	35.2	26,389	2.9	61,062	6.7
2000	953,508	800,048	83.9	205,895	21.6	26,769	2.8	54,555	
2001	952,872	785,883	82.5	222,889	23.4	41,418	4.3	62,670	
2002	1,062,429	914,923	86.1	186,401	17.5	60,908	5.7	90,168	
2003	1,048,609	861,118	82.1	157,459	15.0	94,863	9.0	92,616	
2004	1,088,644	863,186	79.3	71,438	6.6	76,809	7.1	116,081	10.7

Table A5. Troll

YEAR	TOTAL	LOGSH	EETS	UNLOAD	INGS	PORT SA	MPLING	OBSER	VERS
TEAR	CATCH	TONNES	%	TONNES	%	TONNES	%	TONNES	%
1967	5	_	-	-	_	-	-	-	-
1968	14	_	-	_	-	_	-	-	-
1969	_	_	_	-	ı	_	_	_	-
1970	50	_	_	_	-	-	-	-	-
1971	_	_	-	_	-	_	-	-	-
1972	268	_	-	_	_	_	_	_	-
1973	484	_	-	_	_	_	_	_	-
1974	898	_	-	_	_	_	_	_	-
1975	646	_	-	_	_	_	_	_	-
1976	25	_	-	_	_	_	_	_	-
1977	621	_	-	_	_	_	_	_	-
1978	1,686	_	-	_	_	_	_	_	-
1979	814	_	_	_	-	_	_		_
1980	1,468	-	_		_	_	_	_	-
1981	2,085	_	-	_	_	_	_	_	-
1982	2,434	_	-	_	_	_	_	_	-
1983	744	_	-	_	_	_	_	_	-
1984	2,773	_	-	_	_	_	_	_	-
1985	3,253	_	-	_	_	_	_	_	-
1986	2,003	_	-	_	_	_	_	_	-
1987	2,134	_	-	_	_	_	_	_	-
1988	4,296	_	-	_	_	_	_	_	-
1989	8,370	1	0.0	_	1	_	_	Ι	-
1990	6,975	135	1.9	1	ı	1	_	-	-
1991	7,805	1,468	18.8	_	_	_	_	_	-
1992	6,578	1,480	22.5	_	_	_	_	_	-
1993	4,296	1,989	46.3	_	_	_	_	_	-
1994	7,164	3,369	47.0	_	_	_	_	_	-
1995	7,708	3,240	42.0	_	_	_	_	_	-
1996	7,367	2,292	31.1	_	_	_	_	_	-
1997	4,680	1,299	27.8	_	-	_	-	-	-
1998	6,260	2,123	33.9	-	_	_	_	_	-
1999	3,391	1,131	33.4						
2000	5,870	2,439	41.6	_	_	_	_	_	_
2001	5,576	2,598	46.6	-	_	_	_	_	-
2002	4,826	2,639	54.7	-	_	-	_	_	_
2003	4,709	3,040	64.6	-	-	_	_	_	-
2004	4,353	2,554	58.7	_	_	_	_	_	_

Table A6. Domestic fleets of Indonesia

YEAR	TOTAL	LOGSHEI	ETS	UNLOADI	NGS	PORT SAMI	PLING	OBSERVI	ERS
TEAR	CATCH	TONNES	%	TONNES	%	TONNES	%	TONNES	%
1950	3,270	_	-	_	-	_	_	_	_
1951	3,547	_	_	_	_	_	_	_	_
1952	3,847	_	_	_	_	_	_	_	_
1953	4,174	_	_	-	_	-	_	_	_
1954	4,529	_	-	-	-	-	-	_	-
1955	4,915	_	-	-	_	-	-	_	-
1956	5,335	_	_	_	_	_	_	_	_
1957	5,792	_	_	_	_	_	_	_	_
1958	6,288	_	_	_	_	_	_	_	_
1959	6,828	_	_	_	_	_	_	_	_
1960	7,415	_	_	_	_	_	_	_	-
1961	8,054	_	_	_	_	_	_	_	_
1962	8,749	_	_	_	_	_	_	_	_
1963	9,505	_	_	_	_	_	_	_	_
1964	10,327	_	_	_	_	_	_	_	_
1965	11,223	_	_	_	_	_	_	_	_
1966	12,198	_	_	_	_	_	_	_	_
1967	13,260	_	_	_	_	_	_	_	_
1968	14,417	_	_	_	_	_	_	_	_
1969	15,677	_	_	_	_	_	_	_	_
1970	17,600	_	_		_			_	_
1971	18,100	_	_	_	_	_		_	_
1971	28,600	_							
1972	32,500	_		_	_	_	_	_	_
1973	33,779	_	_	_	_	_	_	_	_
1974		_	_	_	_	_	_	_	_
1975	34,378	_	_	_	_	_	_	_	_
	33,375	_	_	_	_	_	_	_	_
1977	37,235	_	_	_	_	_	_	_	_
1978	40,024	_	_	_	_	_	_	_	_
1979	50,973	_	_		_	_	-	_	_
1980	61,795	_	_	_	_	_	_	_	_
1981	68,809	_	_	_	_	_	_	_	_
1982	74,056	_	_	_	_	_	_	_	_
1983	84,532	_	_	_	_	-	-	_	_
1984	96,662	_	_	_	_	-	-	_	_
1985	101,905	_	-	_	-	_	_	_	_
1986	103,171	_	-	_	-	_	-	_	-
1987	111,005	_	-	_	_	_	-	_	_
1988	116,922	_	-	_	_	_	-	_	_
1989	132,464	_	_	_	_	_	-	_	-
1990	142,237	-	-	-	-	-	_	_	-
1991	168,844	-	_	-	_	-	-	_	-
1992	194,659	-	-	-	-	-	-	-	-
1993	173,969	-	-	-	-	-	-	_	-
1994	196,897	_	_	280	0.1	_	_	_	-
1995	204,837	-	_	315	0.2		_	_	_
1996	230,449	-	_	96	0.0	_	-	_	_
1997	211,816	-	_	-	-	_	-	_	_
1998	277,732	_	_	_	_	_	_	_	_
1999	296,242	_	_	_	_	_	_	_	_
2000	298,256	_	_	-	_	-	_	_	_
2001	264,852	_	_	_	_	_	_	_	_
2002	268,123	_	_	_	_	8	0.0	_	_
2003	251,591	_	_	_	_	_	_	_	_
2004	256,190	91	0.0	195	0.1	12	0.0	_	_
	,	3.	0.0	.30	J.1	·	0.0		

Table A7. Domestic fleets of the Philippines

VEAD	TOTAL	LOGSHEI	ETS	UNLOADI	NGS	PORT SAMI	PLING	OBSERV	ERS
YEAR	CATCH	TONNES	%	TONNES	%	TONNES	%	TONNES	%
1950	12,132	_	-	-	-	_	-	-	-
1951	12,774	_	-	-	-	_	-	_	-
1952	13,454	_	_	-	_	_	_	_	_
1953	14,174	_	-	_	-	_	_	-	_
1954	14,937	_	_	_	_	_	_	_	_
1955	15,747	_	_	_	_	_	_	_	_
1956	16,605	_	_	_	_	_	_	_	_
1957	17,514	_	_	_	_	_	_	_	_
1958	18,477	_	_	_	_	_	_	_	_
1959	19,501	_	_	_	_	_	_	_	_
1960	20,585	_	_	_	_	_	_	_	_
1961	21,735	_	_	_	_	_	_	_	_
1962	22,957	_	_	_	_	_	_	_	_
1963	24,252	_	_	_	_	_		_	_
1964	25,626								
1965	27,084	_						_	
1966	28,632	_						_	
1967	30,275	_		_	_	_	_	_	_
		_		_	_	_	_	_	_
1968	32,021	_	_	_	_	_	_	_	_
1969	33,875			_	_	_	_		_
1970	52,000	_	_	_	_	_	_	_	_
1971	57,200	_	-	_	_	_	_	_	_
1972	60,700	_	_	_	_	_	_	_	_
1973	70,900	_	-	-	_	_	-	_	_
1974	81,188	_	-	_	-	_	_	_	_
1975	84,450	_	-	_	-	_	-	_	_
1976	73,653	_	-	_	_	_	-	_	_
1977	118,149	_	-	-	-	_	_	_	_
1978	87,319	_	-	-	-	_	-	-	_
1979	94,308	_	_	_	_	_	-	_	-
1980	77,505	_	-	-	_	_	-	_	-
1981	94,616	_	-	_	-	_	-	_	-
1982	102,806	_	-	_	_	_	_	_	_
1983	118,529	_	_	-	_	_	_	_	_
1984	103,596	_	-	_	-	_	_	-	_
1985	124,829	_	_	_	_	_	_	_	_
1986	136,478	_	_	_	_	_	_	_	_
1987	125,559	_	_	_	_	_	_	_	_
1988	113,002	_	_	_	_	_	_	_	_
1989	126,800	_	_	_	_	_	_	_	_
1990	180,807	_	_	_	_	_	_	_	_
1991	197,988	_	_	_	_	_	_	_	_
1992	128,206	_	_	_	_	_	_	_	_
1993	106,280	_	_	_	_	_		_	
1994	148,640	_			_		_	_	_]
1995	171,068			_] [_	_	_	
1995	171,066			_		_	_	_	
1996		- 13	0.0	40	0.0	14	0.0	_	_
	177,439		0.0	18			0.0	_	_
1998	195,888	1	0.0	1	0.0	2 19		_	_
1999	199,131			47	0.0	19	0.0		_
2000	203,339	_	_	32	0.0	_	-	_	-
2001	189,044	_	_	_	_	_	-	_	-
2002	209,772	_		-	-	_	-	_	-
2003	265,559	16	0.0	_	_	_	-	_	-
2004	272,696	_	_	_	_	_	-		_

Table A8. All gears

VEAD	TOTAL	LOGSHEI	ETS	UNLOADI	NGS	PORT SAMI	PLING	OBSERVI	ERS
YEAR	CATCH	TONNES	%	TONNES	%	TONNES	%	TONNES	%
1950	110,958	_	_	-	_	-	_	_	_
1951	165,535	_	_	_	-	_	_	_	_
1952	214,106	_	-	-	-	-	-	_	-
1953	199,617	_	-	-	_	-	_	_	_
1954	215,652	_	-	-	-	-	-	_	-
1955	220,570	_	_	_	-	_	_	_	_
1956	241,246	_	-	-	_	-	_	_	_
1957	277,848	_	-	-	-	-	-	_	-
1958	315,619	_	-	-	_	-	_	_	_
1959	322,466	_	-	-	-	-	-	_	-
1960	259,396		_	_	_	_	_	_	_
1961	316,750	_	_	_	_	_	_	_	_
1962	346,398	_	-	-	-	-	-	_	-
1963	293,668	_	-	-	-	-	-	_	-
1964	335,706	_	-	1,414	0.4	-	-	_	-
1965	329,179	_	_	2,488	0.8	_	_	_	_
1966	448,029	_	_	2,829	0.6	_	_	_	_
1967	390,790	_	-	3,408	0.9	-	-	_	-
1968	365,411	_	_	4,849	1.3	_	_	_	_
1969	384,342	_	-	5,010	1.3	-	-	_	-
1970	444,089	2,429	0.5	8,043	1.8	-	_	_	-
1971	471,017	16,975	3.6	2,031	0.4	_	_	_	_
1972	499,136	13,195	2.6	1,428	0.3	_	_	_	_
1973	618,295	28,241	4.6	2,404	0.4	_	_	_	_
1974	639,568	41,630	6.5	7,262	1.1	_	_	_	_
1975	568,830	17,368	3.1	6,946	1.2	_	_	_	_
1976	709,684	33,601	4.7	5,656	0.8	_	_	_	_
1977	739,576	25,806	3.5	3,921	0.5	_	_	_	_
1978	784,459	51,941	6.6	9,747	1.2	_	_	_	_
1979	750,301	79,265	10.6	5,649	0.8	_	_	_	_
1980	824,518	134,647	16.3	7,226	0.9	_	-	_	_
1981	790,931	159,360	20.1	9,447	1.2	_	_	_	_
1982	837,952	153,431	18.3	4,371	0.5	_	-	2	0.0
1983	1,049,295	215,493	20.5	_	_	_	_	_	_
1984	1,131,290	258,133	22.8	_	_	_	_	1	0.0
1985	996,787	230,155	23.1	_	_	_	_	_	_
1986	1,112,029	290,320	26.1	_	_	_	_	_	_
1987	1,124,904	244,240	21.7	287	0.0	_	_	13	0.0
1988	1,235,811	375,414	30.4	80,166	6.5	18,364	1.5	16	0.0
1989	1,284,760	434,824	33.8	149,141	11.6	42,063	3.3	7	0.0
1990	1,392,245	444,343	31.9	194,590	14.0	46,877	3.4	28	0.0
1991	1,636,412	532,655	32.6	247,892	15.1	48,150		177	0.0
1992	1,612,727	555,513	34.4	298,748	18.5	43,293		266	0.0
1993	1,431,004	629,523	44.0	438,402	30.6	43,837	3.1	5,979	0.4
1994	1,601,944	725,169	45.3	595,769	37.2	55,668	3.5	27,370	1.7
1995	1,600,015	769,445	48.1	453,130	28.3		2.5	31,412	2.0
1996	1,512,601	706,273	46.7	420,448	27.8	43,017	2.8	46,488	3.1
1997	1,625,909	747,184	46.0	459,900	28.3	38,474	2.4	50,413	3.1
1998	1,997,585	994,665	49.8	497,889	24.9	33,647	1.7	76,347	3.8
1999	1,828,845	875,461	47.9	353,746	19.3	31,367	1.7	61,696	3.4
2000	1,872,002	873,854	46.7	239,952	12.8	32,187	1.7	54,969	2.9
2001	1,786,232	870,485	48.7	260,322	14.6	46,455	2.6	62,982	3.5
2002	1,960,900	1,003,170	51.2	216,024	11.0	66,841	3.4	92,743	4.7
2003	1,977,921	936,702	47.4	172,035	8.7	100,263	5.1	94,878	4.8
2004	2,018,919	923,775	45.8	82,324	4.1	83,565	4.1	116,521	5.8

APPENDIX II. COMPILATION OF DATA BY THE OFP

Data compilation is reviewed below for each fishing state, territory or entity. Data items include (a) estimates of annual catches of target species (albacore, bigeye, skipjack and yellowfin); (b) the provision of catch and effort data; (c) the provision of length data; and (d) the provision of observer data.

The information below on catch and effort data and length data that have been provided to the OFP on behalf of the SCTB is qualitative. Quantitative measures of data holdings, such as the number of records of fishing operations for catch and effort data and the number of fish sampled for length data, are available in the OFP Data Catalogue, which can be found on the SPC website (www.spc.int). Estimates of coverage rates for logsheet data, unloadings data, port sampling data and observer data held by the Oceanic Fisheries Programme (OFP) of the Secretariat of the Pacific Community are given in Appendix I.

American Samoa

Longline: 1995–2004. Troll and Handline: 1950–2004.

Estimates of Annual Catches and Numbers of Vessels

- Longline: The most recent estimates, for 1998–2004, were provided by the National Marine Fisheries Service on 4 August 2005.
- Troll: The most recent estimates, for 1982–2004, were provided by the National Marine Fisheries Service on 4 August 2005.
- Estimates of troll/handline catches for 1950–1981 are missing.

Catch and Effort Data

- Longline: Catch and effort data, grouped by 5x5 and month, have been provided for 1996–2004 by NMFS; the most recent data, for 2003–2004, were provided on 4 August 2005. Catches are in units of numbers of fish only and not in tonnes. Operational catch and effort data were requested from NMFS on 25 August 2003.
- Troll/Handline: Data have been collected by American Samoa Department of Marine and Wildlife Resources through the Commercial Catch Monitoring System from 1982 to 1985 and through the Offshore Creel Survey System since October 1985; these data were requested in June 2002. (During 2000, 19 vessels caught 9 tonnes of skipjack and yellowfin.)

Length Data

- Longline: (a) Length data collected by port samplers have been provided by American Samoa for 2000–2003. (b) Length data for 2003–2004, grouped by one-centimetre interval and year, for albacore and yellowfin, were provided by NMFS on 4 August 2005. (c) Length data have been collected by observers for 1998 and 2002.
- Troll: Length data for 2003–2004, grouped by one-centimetre interval and year, for skipjack and yellowfin, were provided by NMFS on 4 August 2005.

Observer Data

• Longline: Data have been collected by observers from the Cook Islands, Niue and SPC for 1998 and 2001–2003.

Australia

Longline: 1985–2004. Pole-and-line: 19??–2004. Purse seine: 19??–2004. Troll: 1992–2004.

Estimates of Annual Catches and Numbers of Vessels

• The most recent estimates, for 2004, were provided by the Bureau of Rural Sciences (BRS) on 5 May 2005.

- Missing estimates include:
 - the number of pole-and-line vessels prior to 1976;
 - the number of purse seiners prior to 1978;
 - Australian-Japan longline joint-venture catches of skipjack during 1989–1995;
 - pole-and-line catches of skipjack and yellowfin for 1979–1980 and 1985;
 - purse-seine catches of bigeye from 1975 onwards, skipjack for 1976–1977, and yellowfin for 1975–1977; and
 - troll catches of albacore for 1996–1997 and 1999.

Catch and Effort Data

- Longline: Logsheet data have been provided by the Australian Fisheries Management Authority (AFMA) for 1985–2003; the most recent data, for 2003–2004, were received on 25 May 2005.
- Pole-and-line: Logsheet data have been provided by AFMA for 1976–2004; the most recent data, for 2003–2004, were received on 25 May 2005.
- Purse seine: Logsheet data have been provided by AFMA for 1975–2004; the most recent data, for 2003–2004, were received on 25 May 2005.
- Troll: Logsheet data have been provided by AFMA for 1989–2004; the most recent data, for 2003–2004, were received on 25 May 2005.

Size Data

- Longline: Weight data (kgs) for individual, processed bigeye, yellowfin, swordfish, striped marlin and non-target species, for 1997/98 to 2001/02 seasons, were provided by BRS on 2 June 2003. Weight data for the 2002/03–2003/04 seasons have been provided by CSIRO; the most recent data, for the 2003/04 season, were provided on 23 May 2005.
- Pole-and-line: No size data have been provided.
- Purse seine: (a) No length data have been provided by Australia. (b) Length data collected by port samplers have been provided by SPC member countries for 1998–2001. (c) Length data have been collected by observers for 2001.
- Troll: Length data grouped by 5x5 and month, for 1991–1992, have been provided by AFMA.

Observer Data

- Longline: Observer data covering Australian longliners for 2001–2005 were provided by AFMA on 13 July 2005.
- Purse seine: Data have been collected by observers from the Federated States of Micronesia for 2001.

Canada

South Pacific Albacore Troll: 1987-2004.

Estimates of Annual Catches and Numbers of Vessels

The most recent estimates, for 2004, were provided by Fisheries and Oceans Canada on 1 June 2004.

Catch and Effort Data

• No catch and effort data have been provided by Canada.

Length Data

• No length data have been provided by Canada.

Observer Data

• No observer data have been provided by Canada.

China

Longline: 1988–2004. Purse seine 2001–2004.

Estimates of Annual Catches and Numbers of Vessels

• Longline and purse seine: The most recent catch estimates, for 2003, were taken from Song et al. (2004).

Catch and Effort Data

- Longline: (a) Catch and effort data grouped by 5x5 and month for 2003 were provided by Shanghai Fisheries University on 13 August 2004. Catch data are in tonnes only, and not in numbers of fish. (b) Logsheet data have been provided by SPC member countries for 1988–2004.
- Purse seine: (a) Catch and effort data grouped by 1x1 and month for 2003 were provided by Shanghai Fisheries University on 13 August 2004. (b) Logsheet data have been provided by SPC member countries for 2001–2004.

Length Data

- Longline: (a) No length data have been provided by China. (b) Length data collected by port samplers have been provided by SPC member countries for 1991–2003. (c) Length data collected by observers from SPC and SPC member countries have been provided for 1993–2002.
- Purse seine: (a) No length data have been provided by China. (b) Length data collected by port samplers have been provided by SPC member countries for 2001–2003. (c) Length data collected by observers from SPC member countries have been provided for 2002.

Observer Data

- Longline: (a) No observer data have been provided by China. (b) Data collected by observers from the Federated States of Micronesia, the Marshall Islands and SPC have been provided for 1993–2002.
- Purse seine: Data collected by observers from Papua New Guinea have been provided for 2002.

Cook Islands

Longline: 1994-2004

Estimates of Annual Catches and Numbers of Vessels

• The most recent estimates, for 2004, were determined from data held by the OFP.

Catch and Effort Data

• Logsheet data have been provided by the Cook Islands for 1994–1997 and 2001–2004.

Length Data

• (a) Length data collected by Cook Islands observers have been provided for 2002–2003. (b) Length data have been collected by SPC observers for 1995–1996.

Observer Data

• (a) Observer data collected by Cook Islands observers have been provided for 2002–2003. (b) Data have been collected by SPC observers for 1995–1996.

Federated States of Micronesia

Longline: 1991–2004. Purse seine: 1991–2004.

Estimates of Annual Catches and Numbers of Vessels

• The most recent estimates, for 2004, were determined from data held by the OFP.

Catch and Effort Data

- Longline: Logsheet data have been provided by SPC member countries for 1991–2004.
- Purse seine: Logsheet data have been provided by SPC member countries for 1991–2004.

Length Data

- Longline: (a) Length data collected by port samplers have been provided by SPC member countries for 1991–2004.
 (b) Length data collected by observers from the Federated States of Micronesia, Marshall Islands, Papua New Guinea and SPC have been provided for 1994–2003.
- Purse seine: Length data collected by observers from the Federated States of Micronesia have been provided for 1993–1996 and 1998–2001.

Observer Data

- Longline: Data collected by observers from the Federated States of Micronesia, Marshall Islands, Papua New Guinea and SPC have been provided for 1994–2004.
- Purse seine: Data collected by observers from the Federated States of Micronesia and the FSM Arrangement have been provided for 1993–2004.

Fiji

Longline: 1989–2004. Pole-and-line: 1974–2004. Troll: 19??–19??

Estimates of Annual Catches and Numbers of Vessels

- Longline: The most recent estimates, for 2004, were provided by the Fisheries Division on 25 May 2005.
- Pole-and-Line: The most recent estimates, for 2000, were taken from Tuwai & Lagibalavu (2001).
- Troll: The most recent estimates, for 1997, were provided by the Fisheries Division.
- The following estimates are missing:
 - the number of pole-and-line vessels and pole-and-line catches of skipjack for 1974–1975;
 - albacore catches by trollers for 1983, 1985–1994 and 1997–2000; and
 - yellowfin catches by trollers for 1995–2000.

Catch and Effort Data

- Longline: Logsheet data have been provided by the Fisheries Division for 1989–2004.
- Pole-and-line: Logsheet data have been provided by the Fisheries Division for 1976–1996.
- Troll: No catch and effort data have been provided.

Length Data

- Longline: (a) Length data collected by port samplers have been provided by SPC member countries for 1992–2004. (b) Length data have been collected by SPC observers for 1994–1997, 1999 and 2004.
- Pole-and-line: Length data collected by port samplers have been provided by Fiji for 1991 and 1994–1997.
- Troll: Length data collected by port samplers have been provided by Fiji for 1990–1991.

Observer Data

- Longline: (a) Data have been collected by Fijian observers for 2002–2003. (b) Data have been collected by SPC observers for 1994–1997, 1999 and 2004.
- Pole-and-line: Data have been collected by SPC observers for 1999.
- Troll: No observer data have been provided.

French Polynesia

Longline: 1989–2004. Pole-and-line: 1975–2004. Troll: 1989–2004. Poti marara: ???–2004

Estimates of Annual Catches and Numbers of Vessels

- The most recent estimates, for 2004, were provided by the Service des Ressources Marines on 28 July 2005.
- The following estimates are missing:
 - the number of pole-and-line vessels for 1975–1979;
 - pole-and-line catches of skipjack and yellowfin for 1975–1978; and
 - poti mara catches prior to 1990.

Catch and Effort Data

- Longline: Logsheet data have been provided by SRM for 1992–2004; the most recent data, for 2003–2004, were received on 25 February 2005.
- Pole-and-line (*bonitiers*): Logsheet data for 1997–2004; the most recent data, for 2003–2004, were received on 25 February 2005.
- Poti marara: Logsheet data for 1997–2004; the most recent data, for 2003–2004, were received on 25 February 2005.
- Troll: Logsheet data for 1997–2001 were provided by SRM; the most recent data, for 2000–2001, were provided on 6 June 2001.

Length Data

- Longline: (a) Length data collected by port samplers have been provided by French Polynesia for 1993–2004. (b) Length data have been collected by SPC observers for 1993, 1997 and 2004.
- Pole-and-line (bonitiers): No length data have been provided.
- Troll: Length data collected by port samplers have been provided by French Polynesia for 1990–1992.

Observer Data

- Longline: (a) Data have been collected by French Polynesia observers for 1990, 2000 and 2002–2004. (b) Data have been collected by SPC observers for 1993, 1997 and 2004.
- Pole-and-line (bonitiers): No observer data have been provided.
- Troll: No observer data have been provided.

Guam

Troll and Handline: 1950-2004.

Estimates of Annual Catches and Numbers of Vessels

- The most recent estimates, for 1982–2004, were provided by the National Marine Fisheries Service on 5 August 2005.
- All estimates for 1950–1979 are missing.

Catch and Effort Data

• The Guam Division of Aquatic and Wildlife Resources, in collaboration with the National Marine Fisheries Service and the Guam Fishermen's Co-op, has collected commercial landing invoices, which include catch and effort data, since 1982; these data were requested in June 2002. (During 2000, 416 vessels caught 156 tonnes of skipjack and yellowfin.)

Indonesia

Longline: 19??–2004. Pole-and-line: 19??–2004. Handline: 19??–2004. Domestic purse seine: 19??–2004. Distant-water purse seine: 1984–1990. Unclassified: 19??–2004.

Estimates of Annual Catches and Numbers of Vessels

- The most recent estimates, for 2004 were provided by the Directorate General of Capture Fisheries on 13 May 2005; these estimates are for the total catch and are not broken down by gear type.
- Catch estimates, by gear type, are missing for 1992 onwards.

Catch and Effort Data

- Longline, pole-and-line, handline, domestic purse seine and unclassified: No catch and effort data have been provided.
- Distant-water purse seine: Logsheet data have been provided by SPC members for 1986–1990.

Length Data

- Pole-and-line: (a) Length data collected by port samplers for 1985–1987 were provided by the FAO/UNDP Indo-Pacific Tuna Programme. (b) Length data were collected by a pole-and-line vessel chartered by SPC for the Regional Tuna Tagging Project in 1991–1992.
- Handline/Troll: Length data collected by port samplers for 1985 and 1987 were provided by the FAO/UNDP Indo-Pacific Tuna Programme.
- Domestic purse seine: Length data collected by port samplers for 1986–1987 were provided by the FAO/UNDP Indo-Pacific Tuna Programme.
- · Longline, distant-water purse seine, and unclassified: No length data have been provided.

Observer Data

• No observer data have been provided.

Japan

Driftnet: 1983–1990. Longline: 1950–2004. Pole-and-line: 1950–2004. Purse seine: 1950–2004. Unclassified: 1950–2004.

Estimates of Annual Catches and Numbers of Vessels

- Longline, coastal; pole-and-line, coastal; purse-seine, coastal; and unclassified: The most recent estimates, for 2004, were provided by NRIFSF (Miyabe, pers. comm., May 2005).
- Longline, offshore and distant-water: The most recent estimates, for 2004, were provided by NRIFSF (Miyabe, pers. comm., May 2005).
- Pole-and-line, offshore and distant-water: The most recent estimates, for 2004, were provided by NRIFSF (Miyabe, pers. comm., May 2005).
- Purse seine, offshore and distant-water: The most recent estimates, for 2004, were provided by NRIFSF (Miyabe, pers. comm., May 2005).
- The following estimates are missing:
 - for the Convention Area: offshore and distant-water longline, 1950–1970 and offshore and distant-water poleand-line, 1950–1971.
 - numbers of coastal, offshore and distant-water longliners for 1950–1952;
 - numbers of coastal, offshore and distant-water pole-and-line vessels for 1950–1952;
 - numbers of coastal, offshore and distant-water purse seiners for 1950–1968;
 - catches by coastal longliners vessels of bigeye and skipjack, 1950–1968, and yellowfin, 1950–1951;
 - catches by coastal pole-and-line vessels of bigeye and yellowfin for 1950–1968;

- catches by offshore and distant-water pole-and-line vessels of bigeye and yellowfin for 1950–1971 and skipjack for 1950;
- catches by coastal purse seiners of bigeye, skipjack and yellowfin for 1950;
- catches by offshore and distant-water purse seiners of bigeye, skipjack and yellowfin for 1950–1969; and
- catches by unclassified gear types of bigeye for 1950–1969 and skipjack and yellowfin for 1950.

Note: The estimates of annual catches of albacore, bigeye and yellowfin that have been provided by NRIFSF for 1987–1993 do not agree with estimates determined from catch data grouped by 5x5 that have been provided by NRIFSF. The annual catch estimates determined from the 5x5 data are as low as 34 percent of the annual catch estimates provided by NRIFSF.

<u>Note</u>: The estimate of the longline catch of skipjack for 1983 is 1,134 mt, compared to catches in the range of 4 to 157 tonnes for other years. This estimate "could not be confirmed at this time as it was referred from MAFF Stat. Dept." (Miyabe, personal communication, May 1999)

<u>Note</u>: NRIFSF has previously advised that bigeye and yellowfin catch estimates for purse seine have been adjusted for the misidentification of bigeye as yellowfin (Miyabe, personal comunication, May 1999); however, sampling data presented in Miyabe et al. (2000) indicate that estimates for 1997–1999 (and therefore possibly earlier years) have not been adjusted.

Catch and Effort Data

- Driftnet: Catches of albacore (in numbers of fish) and effort data, grouped by 5x5 and month, for 1983–1990, have been provided by NRIFSF.
- Longline: (a) Data grouped by 5x5 and month for 1952–2004 have been provided by NRIFSF. The most recent data, covering 2000–2004, were received on 1 June 2005. Note: The longline catch data are in numbers of fish only, rather than numbers of fish and weight. (b) Data grouped by 1x1, month and hooks per basket, covering catches of bigeye and yellowfin only, for 1966–2004 have also been provided by NRIFSF; the most recent data, for 1994–2004, were provided on 1 June 2005. (c) Logsheet data have been provided by SPC members for 1978–2004.
- Pole-and-line: (a) Data grouped by 1x1 and month for 1972–2002 have been provided by NRIFSF; data covering 1998–1999 and 2001–2002 were received on 13 April 2004. (b) Data grouped by sub-area, quarter and fleet category (offshore and distant-water) for 1972–2002 were provided by NRIFSF on 7 May 2004; effort data are standardised, rather than nominal. (c) Logsheet data have been provided by SPC members for 1978–2004.
- Purse seine: (a) Data grouped by 1x1 and month for 1967–2004 have been provided by NRIFSF. The most recent data, covering 2003–2004, were received on 22 February 2005. (b) Logsheet data have been provided by SPC members for 1979–2004.

Length Data

- Driftnet: (a) The following have been provided by NRIFSF: albacore length data, grouped by 5x10 and month, for 1988–1990; and skipjack length data, grouped by 5° latitude by 5° longitude area and year/month, in 2 cm intervals, for 1972, 1991–1992 and 2003 (received on 30 April 2004). (b) Length data collected by port samplers in SPC member countries and territories have been provided for 1989–1990.
- Longline: (a) The following have been provided by NRIFSF: albacore length data, grouped by year/quarter and 10° latitude by 20° longitude area, in 1 cm intervals from 31 to 130 cm, for 1965–2001 (1998–2001 received on 28 May 2003); yellowfin length and weight data, grouped by 10° latitude by 20° longitude area and year/quarter, in 2 cm and 1 kg intervals, for 1948–2004 (2001–2004 received on 1 June 2005); bigeye length and weight data, grouped by 10° latitude by 20° longitude area and year/quarter, in 2 cm and 1 kg intervals, for 1948–2004 (2001–2004 received on 1 June 2005); and skipjack length data, grouped by 5° latitude by 5° longitude area and year/month, in 2 cm intervals, for 1970–2003 (received on 30 April 2004). (b) Length data from port sampling in Pago Pago, American Samoa, for 1962–1972, have been provided by the National Marine Fisheries Service. (c) Length data collected by observers from Australia, Federated States of Micronesia, New Zealand, Solomon Islands and SPC have been provided for 1980–2004.
- Pole-and-line: The following have been provided by NRIFSF: (a) skipjack length data, grouped by year/quarter and sub-area, in 2 cm intervals, for 1966–1967 and 1970–2001 (received on 8 March 2002); and skipjack length data, grouped by 5° latitude by 5° longitude area and year/month, in 2 cm intervals, for 1964–2004 (received on 30 April 2004). (c) Length data collected by port samplers have been provided by SPC member countries for 1996.

- Purse seine: The following have been provided by NRIFSF: (a) skipjack length data, grouped by year/quarter and sub-area, in 2 cm intervals, for 1973–1975, 1977–1985, 1988–1989, 1991–1996 and 1998 (received on 8 March 2002); and skipjack length data, grouped by 5° latitude by 5° longitude area and year/month, in 2 cm intervals, for 1970–2003 (received on 30 April 2004). (b) Length data collected by observers from the Federated States of Micronesia and SPC have been provided for 1993–2004.
- Troll: The following have been provided by NRIFSF: (a) skipjack length data, grouped by 5° latitude by 5° longitude area and year/month, in 2 cm intervals, for 1971–2003 (received on 30 April 2004).

Observer Data

- Driftnet: No observer data have been provided.
- Longline: (a) No observer data have been provided by NRIFSF. (b) Data collected by observers from Australia, Federated States of Micronesia, New Zealand, Papua New Guinea, Solomon Islands and SPC have been provided for 1980–2004.
- Pole-and-line: Data collected by observers from the Federated States of Micronesia, Solomon Islands and SPC have been provided for 1993 and 1998–2004.
- Purse seine: (a) No observer data have been provided by NRIFSF. (b) Length data collected by observers from the Federated States of Micronesia, Nauru and SPC have been provided for 1993–2004.

Kiribati

Longline: 1995–1996, 2000–2004. Pole-and-line: 1979–1996. Purse seine: 1994–2004.

Estimates of Annual Catches and Numbers of Vessels

• Purse seine: The most recent estimates, for 2004, were determined from data held by the OFP.

Catch and Effort Data

- Longline: Logsheet data have been provided by SPC members for 1995–1996 and 2003–2004.
- Pole-and-line: Logsheet data have been provided by SPC members for 1986–1990, 1993 and 1995–1996.
- Purse seine: Logsheet data have been provided by SPC members for 1994–2004.

Length Data

- Longline: No length data have been provided.
- Pole-and-line: Length data collected by port samplers in SPC member countries and territories have been provided for 1994–1995.
- Purse seine: (a) Length data collected by port samplers in SPC member countries and territories have been provided for 1997.

Observer Data

• Purse seine: Data collected by observers from the Federated States of Micronesia and the FSM Arrangement have been provided for 1995, 1998–1999 and 2002–2003.

Marshall Islands

Longline: 1992–1995. Purse seine: 2000–2004

Estimates of Annual Catches and Numbers of Vessels

• Purse seine: The most recent estimates, for 2004, were determined from data held by the OFP.

Catch and Effort Data

- Longline: Logsheet data for longliners have been provided by the Marshall Islands Marine Resources Authority for 1992–1993 and 1995.
- Purse seine: Logsheet data for purse seiners have been provided by SPC members for 2000–2004.

Length Data

- Longline: Length data collected by port samplers in SPC member countries have been provided for 1992–1995.
- Purse seine: Length data collected by port samplers in SPC member countries have been provided for 2003–2004.

Observer Data

- · Longline: No observer data have been provided.
- Purse seine: Data collected by observers from the FSM Arrangement have been provided for 2000–2004.

New Caledonia

Longline: 1983–2004. Pole-and-line: 1981–1983.

Estimates of Annual Catches and Numbers of Vessels

• Longline: The most recent estimates, for 2004, was provided by the *Marine marchande* on 18 May 2005.

Catch and Effort Data

- Longline: Logsheet data have been provided by the Marine marchande for 1983–2004.
- Pole-and-line: Logsheet data for longliners have been provided by the *Marine marchande* for 1981–1983.

Length Data

- Longline: (a) Length data collected by port samplers in SPC member countries and territories have been provided for 1992–2004. (b) Length data have been collected by SPC observers for 1996, 1998–1999 and 2001.
- Pole-and-line: No length data have been provided.

Observer Data

Longline: Data have been collected by New Caledonia and SPC observers for 1992, 1996, 1998–1999 and 2001–2004.

New Zealand

Longline: 1989–2004. Pole-and-line: 1991–2004. Purse seine: 1975–2004. Troll: 1967–2004.

Estimates of Annual Catches and Numbers of Vessels

- Longline, pole-and-line, purse-seine and troll: The most recent estimates, for 2004, were provided by the Ministry of Fisheries on 9 May 2005.
- The following estimates are missing:
 - catches of albacore, skipjack and yellowfin by pole-and-line for 1990–1997;
 - catches of albacore by trollers in 1969 and 1971.

Catch and Effort Data

- Longline: Logsheet data have been provided by the Ministry of Fisheries for 1980–2004; the most recent data, for 2003–2004, were received on 9 May 2005.
- Pole-and-line: Logsheet data have been provided by the Ministry of Fisheries for 1990–2004; the most recent data, for 2003–2004, were received on 9 May 2005.

- Purse seine: Logsheet data have been provided by the Ministry of Fisheries for 1989–2004; the most recent data, for 2003–2004, were received on 9 May 2005.
- Troll: Logsheet data have been provided by the Ministry of Fisheries for 1989–2004; the most recent data, for 2003–2004, were received on 9 May 2005.

Length Data

- Longline: Length data collected by observers, for 1987–1999, were provided by the Ministry of Fisheries on 7 September 2000.
- Pole-and-line: No length data have been collected for this fishery.
- Purse-seine: (a) Length data for skipjack have been provided by the Ministry of Fisheries for 1978–1981. (b) Length data collected by port samplers in SPC member countries have been provided for 2001 and 2003.
- Troll: Length data for albacore have been provided by the Ministry oif Fisheries for 1996–2004; the most recent data, for 2003–2004, were provided on 19 June 2003.

Observer Data

- Longline: Data have been collected by New Zealand observers and provided to SPC for 1987–2004; the most recent data, for 2000–2004, were provided on 9 May 2005.
- Purse seine: (a) Observer data collected by the Ministry of Fisheries in the 1970s are no longer available. (b) Data have been collected by Solomon Islands observers for 2003.
- Troll: Data were collected by SPC observers in the late 1980s and early 1990s.

Northern Marianas

Troll: 1950-2004.

Estimates of Annual Catches and Numbers of Vessels

- Estimates for 1983–2003 have been provided by the National Marine Fisheries Service; the most recent estimates, for 2004, were provided on 6 August 2005.
- Estimates for 1950–1982 are missing.

Catch and Effort Data

• The Division of Fish and Wildlife of the Commonwealth of the Northern Mariana Islands, in collaboration with the National Marine Fisheries Service, has collected fish dealer invoices since 1982; these catch per trip data were requested in June 2002. During 2000, 71 tonnes of skipjack and yellowfin were caught.

Palau

Longline: 1999–2004. Pole-and-line: 1964–1982 and 1985–2004.

Estimates of Annual Catches and Numbers of Vessels

- Longline: The most recent estimates, for 2004, were determined from data held by the OFP.
- Pole-and-line: Missing data include pole-and-line catches of skipjack and yellowfin for 1993–2004.

Catch and Effort Data

- Longline: Logsheet data have been provided by SPC members for 2000–2001 and 2004.
- Pole-and-line: No catch and effort data have been provided.

Length Data

- Longline: Length data collected by port samplers have been provided by SPC member countries for 2000–2002 and 2004
- Pole-and-line: No length data have been provided.

Observer Data

- Longline: Observer data have been collected by Federated States of Micronesia observers for 2000.
- Pole-and-line:No observer data have been provided.

Papua New Guinea

Longline: 1993–2004. Pole-and-line: 1970–1985. Purse seine: 1994–2004.

Estimates of Annual Catches and Numbers of Vessels

• Longline and purse seine: The most recent estimates, for 2004, were provided by the National Fisheries Authority on 15 July 2005.

Catch and Effort Data

- Longline: Logsheet data have been provided by SPC members for 1993–2004.
- Pole-and-line: Logsheet data have been provided for 1970–1981 and 1984–1985.
- Purse seine: Logsheet data have been provided by SPC members for 1994–2004.

Size Data

- Longline: (a) Length data collected by port samplers have been provided by SPC member countries for 2001–2003. (b) Length data have been collected by observers from Papua New Guinea and SPC for 1996, 1999–2004. (c) Packing list weight data have been provided by industry for 1997–2004; the most recent data, for 2004, were received on 11 August 2004.
- Pole-and-line: Length data have been provided for 1984–1985.
- Purse seine: (a) Length data collected by port samplers have been provided by SPC member countries for 1995–1997 and 2001–2004. (b) Length data have been collected by observers from the Federated States of Micronesia, Papua New Guinea, Solomon Islands and SPC for 1995–2004.

Observer Data

- Longline: Observer data have been collected by Papua New Guinea and SPC observers for 1996–2004.
- Purse seine: Observer data have been collected by observers from the Federated States of Micronesia, the FSM Arrangement, Kiribati, Papua New Guinea, Solomon Islands and SPC for 1995–2004.

Philippines

Longline: 19??–2004. Gillnet: 19??–2004. Handline: 19??–2004. Domestic purse seine and ringnet: 19??–2004. Distant-water purse seine: 1982 and 1984–2004. Unclassified: 19??–2004.

Estimates of Annual Catches and Numbers of Vessels

- Longline, gillnet, handline, domestic purse seine, ringnet and unclassified: The most recent estimates, for 2004, were provided by the Bureau of Agricultural Statistics on 13 May 2005; these estimates are for the total catch and are not broken down by gear type.
- Distant-water purse seine: The most recent estimates, for 2004, were determined from data held by the OFP.
- The following estimates are missing:
 - the number of longliners for 1950–1981;

- the number of domestic purse seiners and ringnet vessels for 1950–1979 and 1994–1997;
- longline catches of bigeye, skipjack and yellowfin for 1950–1969;
- gillnet, handline and unclassified catches of bigeye for 1950–1969;
- domestic purse-seine and ringnet catches of bigeye, skipjack and yellowfin for 1950–1969;
- catch estimates by gear type for 1997–2003.
- Gillnet, handline and unclassified catches of skipjack and yellowfin for 1950–1969 were estimated by assuming an
 annual increase equivalent to the average annual increase during 1970–1980 and back-calculating from 1970, and
 should be considered unreliable.

Catch and Effort Data

- Longline, gillnet, handline, domestic purse seine and ringnet and unclassified: No catch and effort data have been provided.
- Distant-water purse seine: Logsheet data have been provided by SPC members for 1982 and 1984–2004.

Length Data

- Longline, gillnet, handline, domestic purse seine and ringnet and unclassified: (a) Length data collected by the
 Bureau of Fisheries and Aquatic Resources (BFAR) have been provided for 1980–1987. (b) Length data collected
 by the Philippines Landed Catch and Effort Monitoring Program (LCEM) have been provided for 1993–1994. (c)
 Length data collected in the Philippines by a pole-and-line vessel chartered by SPC for the Regional Tuna Tagging
 Project have been provided for 1990–1992.
- Distant-water purse seine: (a) Length data collected by port samplers have been provided by SPC member countries for 1994–2002. (b) Length data have been collected by observers from Papua New Guinea and SPC for 1996–1998 and 2000–2003.

Observer Data

 Distant-water purse seine: Observer data have been collected by observers from Papua New Guinea and SPC for 1996–2003.

Republic of Korea

Driftnet: 1989. Longline: 1958–2004. Purse seine: 1980–2004.

Estimates of Annual Catches and Numbers of Vessels

- Longline and purse seine: The most recent estimates, for 2004, were provided by the National Fisheries Research and Development Institute (NFRDI) on 30 April 2005.
- The following estimates are missing:
 - longline catches of skipjack for 1958–1974.

Catch and Effort Data

- Driftnet: No catch and effort data have been provided.
- Longline: (a) Data for 1975–2003, grouped by 5x5 and month, have been provided by NFRDI. The most recent data, for 2002–2003, were provided on 8 June 2005. (b) Logsheet data have been provided by SPC members for 1979–2004.
- Purse seine: (a) Data grouped by 1x1 and month for 1980–2004 were provided by NFRDI on 13 May 2005; no effort data were included. Data previously provided by NFRDI, for 1980–2001, included effort data in units of "days on which a set was made", rather than "days fished or searched". (b) Logsheet data have been provided by SPC members for 1980–2004. Note: Catches reported on logsheets for 1980–1992 have been under-reported.

Length Data

- Driftnet: No length data have been provided.
- Longline: (a) No length data have been provided by NFRDI. (b) Length data from port sampling in Pago Pago, American Samoa, for 1962–1992, have been provided by the National Marine Fisheries Service. (c) Length data

collected by port samplers in SPC member countries have been provided for 1992–2004. (d) Length data collected by observers from the Federated States of Micronesia, Solomon Islands and SPC have been provided for 1992–1993, 1998–1999 and 2004.

• Purse seine: (a) Skipjack length data from port sampling in Korea, for 1993–2004, in one-centimetre intervals, by month, have been provided by NFRDI; the most recent data, for 2004, were provided on 3 August 2005. These data have not been stratified by school association or geographic area. (b) Length data collected by port samplers in SPC member countries have been provided for 1993–2004. (c) Length data collected by observers from the Federated States of Micronesia, Papua New Guinea and SPC have been provided for 1993–2004.

Observer Data

- Longline: Data collected by observers from the Federated States of Micronesia, Kiribati, Solomon Islands and SPC have been provided for 1992, 1998–1999 and 2002–2004.
- Purse seine: Data collected by observers from the Federated States of Micronesia, Kiribati, Papua New Guinea, Solomon Islands and SPC have been provided for 1993–2004.

Russia

Purse seine: 1985-1994.

Estimates of Annual Catches and Numbers of Vessels

• Fishing ceased in 1994.

Catch and Effort Data

• Logsheet data for purse seine have been provided by SPC members for 1985–1986 and 1993–1994.

Length Data

• Length data collected by port samplers in Solomon Islands have been provided for 1994.

Observer Data

• No observer data have been provided.

Samoa

Longline: 1993-2004.

Estimates of Annual Catches and Numbers of Vessels

• The most recent estimates, for 2004, were provided by the Fisheries Division on 7 June 2005.

Catch and Effort Data

• (a) A small amount of logsheet data are available for 1993–1994. (b) Logsheets for 1998–2005 have been provided by the Samoa Fisheries Division; the most recent data were provided on 26 March 2005..

Length Data

• (a) Length data collected by port samplers in SPC member countries have been provided for 1998–2004. (b) Length data have been collected by SPC observers for 1998–2000.

Observer Data

• Data have been collected by SPC observers for 1993–1994 and 1998–2004.

Solomon Islands

Longline: 1973, 1975–1985 and 1995–2004. Pole-and-line: 1971–2004. Purse seine: 1980–2004.

Estimates of Annual Catches and Numbers of Vessels

- Longline, pole-and-line and purse seine: The most recent estimates, for 2003, were taken from Oreihaka (2004).
- Estimates of the number of pole-and-line vessels for 1971–1972 are missing.

Catch and Effort Data

- Longline: Logsheet data have been provided by the Fisheries Division for 1981–1985, 1992 and 1995–2002. The most recent data, for 1999–2002, were received on 2 December 2002. Data for 1997–2001 are lacking catch estimates in units of numbers of fish.
- Pole-and-line: Logsheet data have been provided by the Fisheries Division for 1981–2004. The most recent data, for 2003–2004, were received on 20 January 2005.
- Purse seine: Logsheet data have been provided by the Fisheries Division for 1985–2004. The most recent data, for 2001–2004, were received on 20 January 2005.

Length Data

- Longline: (a) Length data collected by port samplers from Solomon Islands have been provided for 1996–2000. (b) Length data collected by observers from Solomon Islands and SPC have been provided for 1997–2004.
- Pole-and-line: Length data collected by port samplers from Solomon Islands have been provided for 1971–1980, 1984–1992 and 1994–1997.
- Purse seine: (a) Length data collected by port samplers from in SPC member countries have been provided for 1994, 1998 and 2000. (b) Length data collected by observers from Solomon Islands and SPC have been provided for 1998–2004.

Observer Data

- Longline: Observer data collected by observers from Solomon Islands and SPC have been provided for 1996–2004.
- Pole-and-line: Observer data collected by observers from Solomon Islands and SPC have been provided for 1997– 2004.
- Purse seine: Observer data collected by observers from the FSM Arrangement, Solomon Islands and SPC have been provided for 1995 and 1998–2004.

Spain

Purse seine: 1999–2004.

Estimates of Annual Catches and Numbers of Vessels

• The most recent estimates, for 2004, were taken from Anon. (2005).

Catch and Effort Data

• (a) Logsheet data for purse seine have been provided by OPAGAC for 2000–2002. (b) Logsheet data for purse seine have been provided by SPC members for 2004.

Length Data

• No length data have been provided.

Observer Data

• No observer data have been provided.

Chinese Taipei

Driftnet: 1988–1991. Distant-Water Longline: 1954–2004. Offshore Longline, Based in Domestic Ports: 19??–2004. Offshore Longline, Based in Foreign Ports: 1987–2004. Purse seine: 1983–2004. Unclassified: 19??–2004.

Estimates of Annual Catches and Numbers of Vessels

- Longline, distant-water: The most recent estimates, for 2004, were provided by the Fisheries Agency on 31 May 2005.
- Longline, offshore, based in domestic ports: The most recent estimates, for 2004, were provided by the Fisheries Agency on 31 May 2005.
- Longline, offshore, based in foreign ports: The most recent estimates, for 2003, were provided by the Fisheries Administration on 21 July 2004.
- Purse seine: The most recent estimates, for 2004, were provided by the Fisheries Agency on 31 May 2005.
- Unclassified: The most recent estimates, for 1996, were provided by National Taiwan University.
- The following estimates are missing:
 - the numbers of distant-water longliners for 1954–1963 and 1967–1974;
 - the numbers of offshore longliners based in domestic ports for 1950–1969;
 - the numbers of offshore longliners based in foreign ports for 1987–1992;
 - distant-water longline catches of albacore for 1954–1962, bigeye for 1954–1963, and skipjack for 1954–1966;
 - catches by offshore longliners based in domestic ports of bigeye, skipjack and yellowfin for 1950–1969;
 - catches by offshore longliners based in foreign ports of bigeye and yellowfin for 1987–1989 and skipjack for 1987–1998; and
 - catches by unclassified gear types of bigeye, skipjack and yellowfin for 1950–1969.

Catch and Effort Data

- Driftnet: Data grouped by 5x5 and month have been provided by National Taiwan University for 1988–1989.
- Longline, distant-water: (a) Data grouped by 5x5 and month have been provided by OFDC for 1964–2003. The most recent data, for 2003, were provided on 31 May 2005. Data for 1964–1966 were provided on 29 April 2005 and cover the WCPFC Convention Area, whereas data for 1967–2003 cover the whole Pacific Ocean. Note: Data for 1967–1993 were raised by NTU on the basis of the number of trips, rather than landings; these data have been raised by the OFP on the basis of landings. (b) Logsheet data have been provided by SPC members for 1980–2003.
- Longline, offshore, based in domestic ports: No data have been provided by OFDC.
- Longline, offshore, based in foreign ports: (a) No data have been provided by OFDC. (b) Logsheet data have been provided by SPC members for 1987–2004.
- Purse seine: (a) No data have been provided by OFDC. (b) Logsheet data have been provided by SPC members for 1983–2004. Note: Catches on logsheets for 1983–1991 have been under-reported.

Length Data

- Driftnet: No length data have been provided.
- Longline, distant-water: (a) OFDC holds length data recorded by fishermen covering distant-water longliners from 1981 to the present; these data have not been provided. (b) Length data from port sampling in Pago Pago, American Samoa, for 1964–1997, have been provided by the National Marine Fisheries Service. (c) Length data collected by port samplers have been provided by SPC member countries for 1992–2004. (d) Length data have been collected by SPC observers for 1996.
- Longline, offshore, based in domestic ports: OFDC holds length data covering offshore longliners from late 1997 to the present; port samplers in Tungkang collect samples of 250 to 500 fish per month; these data have not been provided.
- Longline, offshore, based in foreign ports: (a) Length data collected by port samplers in SPC member countries have been provided for 1991–2004. (b) Length data collected by observers from the Federated States of Micronesia, Papua New Guinea, Solomon Islands and SPC have been provided for 1993–2004.

Purse seine: (a) No length data have been provided by Chinese Taipei. (b) Length data collected by port samplers
have been provided by SPC member countries for 1993–2004. (c) Length data collected by observers from the
Federated States of Micronesia, Marshall Islands, Papua New Guinea, Solomon Islands and SPC have been
provided for 1993–2004.

Observer Data

- Longline, distant-water: Data have been collected by SPC observers for 1996.
- Longline, offshore, based in domestic ports: No observer data have been provided.
- Longline, offshore, based in foreign ports: Data collected by observers from the Federated States of Micronesia, Papua New Guinea, Solomon Islands and SPC have been provided for 1993–2004.
- Purse seine: Data collected by observers from the Federated States of Micronesia, Kiribati, Marshall Islands, Papua New Guinea, Solomon Islands and SPC have been provided for 1993–2004.

Tonga

Longline: 1982-2004.

Estimates of Annual Catches and Numbers of Vessels

- The most recent estimates, for 2004, were provided by the Ministry of Fisheries on 11 May 2005.
- Catches for 1996–2000 were determined assuming each vessel caught an average of 100 tonnes per annum and applying the average species composition determined from logsheet data held by the OFP for 1993–2001; these estimates should be considered as unreliable.

Catch and Effort Data

Logsheet data for longliners have been provided by SPC members for 1982–1994 and 1996–2004.

Length Data

• (a) Length data collected by port samplers in SPC member countries have been provided for 1995–2004. (b) Length data have been collected by SPC observers 1995–1996 and 1998–2000.

Observer Data

• Data have been collected by SPC observers 1995–1996, 1998–2000, and 2004.

United States of America

Longline, Hawaii: 1950–2004. Longline, Ex-US: 1991–2000. Pole-and-Line, Hawaii: 1995–2004. Purse Seine: 1976–2004. Troll and Handline, Hawaii: 1950–2004. Troll, South Pacific Albacore: 1986–2004.

Note: American Samoa, Guam and the Northern Marianas are presented separately above. 'Longline, ex-US' includes fishing in the waters of the Federated States of Micronesia, Fiji, Marshall Islands and Palau.

Estimates of Annual Catches and Numbers of Vessels

- Longline, Hawaii: The most recent estimates, for 2003–2004, were provided by the National Marine Fisheries Service on 4 August 2005.
- Longline, ex-US: The most recent estimates, for 2000, were determined from logsheet and landings data held by the SPC Oceanic Fisheries Programme.
- Pole-and-Line, Hawaii: The most recent estimates, for 2003–2004, were provided by the National Marine Fisheries Service on 4 August 2005.
- Purse Seine: The most recent estimates, for 2003–2004, were provided by NMFS on 4 August 2005.

- Troll/Handline, Hawaii: The most recent estimates, for 2003–2004, were provided by the National Marine Fisheries Service on 4 August 2005.
- Troll, South Pacific albacore: The most recent estimates, for 2003–2004, were provided by NMFS on 4 August 2005.
- The following estimates are missing:
 - number of U.S. pole-and-line vessels during 1950–1994;
 - pole-and-line catches of skipjack during 1950–1978; and
 - pole-and-line catches of yellowfin during 1950–1969.

Catch and Effort Data

- Longline, Hawaii: (a) Data covering Hawaii-based vessels, grouped by 5x5 and quarter, have been provided by the National Marine Fisheries Service for 1991–2004; the most recent data, for 2003–2004, were received on 4 August 2005. Note: "The data have been filtered for confidentiality purposes, with records with fewer than three boats dropped." Catches are in units of numbers of fish only and not in tonnes. (b) Bigeye standard effort data covering Hawaii-based vessels, grouped by month for the Hawaii EEZ, for 1991–2000, were provided by NMFS on 10 May 2002.
- Longline, ex-US: Logsheet data for 1991–2000 have been provided by SPC members.
- Purse seine: (a) Logsheet data have been provided by the Pacific Tuna Development Foundation for 1976–1977, 1979–1980 and 1982–1983. (b) Data grouped by 1x1 and month have been provided by the American Tunaboat Association for 1980–1988. (c) Logsheet data have been provided by National Marine Fisheries Service through the Forum Fisheries Agency for 1988–2004.
- Troll, South Pacific albacore: Data grouped by 5x5 and month have been provided by National Marine Fisheries Service for 1986–2004. The most recent data, covering 2003–2004, were provided on 4 August 2005; catches for 1991–1995 and 1999–2004 are in units of numbers of fish only and not in tonnes.

Length and Weight Data

- Longline, ex-US: (a) Length data collected by port samplers in SPC member countries and territories have been provided for 1992–2000. (b) Data collected by observers from the Federated States of Micronesia have been provided for 1995–1997.
- Longline, Hawaii: (a) Weight data for 2003–2004, grouped by one-kilogram interval and year for albacore, two-kilogram and year for bigeye and yellowfin, and ten-kilogram and year for swordfish, were provided by NMFS on 4 August 2005. (b) Length data collected by observers contracted by the National Marine Fisheries Service have been provided for 1994–2004.
- Purse-seine: (a) Data collected by port samplers have been provided by the National Marine Fisheries Service through the Forum Fisheries Agency for 1988–2004. (b) Data collected by port samplers have been provided by other SPC member countries for 1994–2004. (c) Data collected by observers have been provided by the Forum Fisheries Agency and SPC member countries for 1994–2004.
- Troll and handline, Hawaii: Weight data for 2003–2004, grouped by one-pound interval and year for skipjack and grouped by five-pound interval and year for yellowfin, were provided by NMFS on 4 August 2005.
- Troll, Guam and Northern Marianas: Length data for 2003, grouped by one-centimetre interval and year, for skipjack and yellowfin, were provided by NMFS on 21 May 2004.
- Troll, South Pacific albacore: Port sampling length data, grouped by 5x10, month and one-centimetre interval, have been provided by National Marine Fisheries Service for the 1998/99–2000/01 and 2002/03 seasons; the most recent data, covering the 2002/03 season, were provided on 2 June 2004.

Observer Data

- Longline, Hawaii: Observer data covering domestic longliners, for 1994–2004, were provided by NMFS on 14 March 2005.
- Longline, ex-US: Data collected by observers from the Federated States of Micronesia have been provided for 1995–1997.
- Purse seine: Observer data have been provided by the Forum Fisheries Agency and SPC member countries for 1988–2004.

Vanuatu

Longline: 1995–2004. Purse seine: 1994–2004.

Estimates of Annual Catches and Numbers of Vessels

- Longline: The most recent estimates, for 2004, were determined from data held by the OFP.
- Purse seine: The most recent estimates, for 2004, were determined from data held by the OFP.

Catch and Effort Data

- Longline: Logsheet data have been provided by SPC members for 1995–2004.
- Purse seine: Logsheet data have been provided by SPC members for 1994–2004.

Length Data

- Longline: (a) Length data collected by port samplers in SPC member countries have been provided for 2002–2004. (b) Length data have been collected by an observer in the Solomon Islands for 1995.
- Purse seine: (a) Length data collected by port samplers in SPC member countries and territories have been provided for 1995–1998 and 2003–2004. (b) Length data have been collected by observers from the Federated States of Micronesia, Papua New Guinea, Solomon Islands and SPC for 1996–1999 and 2003–2004.

Observer Data

- Longline: Data have been collected by an Solomon Islands observer for 1995.
- Purse seine: Data have been collected by observers from the Federated States of Micronesia, Papua New Guinea, Solomon Islands, FSM Arrangement and SPC for 1995–1999 and 2001–2004.

Eastern Pacific Ocean

Longline: 1950–2004. Pole-and-line: 1950–2004. Purse seine: 1950–2004. Troll: 1950–2003. Other: 1950–2004.

Estimates of Annual Catches and Numbers of Vessels

• The most recent estimates, for 2004, were provided by the Inter-American Tropical Tuna Commission (IATTC) on 9 June 2005.

Catch and Effort Data

- Pole-and-line: No pole-and-line catch and effort data have been provided.
- Purse seine: (a) Catch and effort data for 1980–1999, grouped by 1x1, year/month and set type, for all fishing nations combined, have been provided by IATTC; the most recent data, covering 1998–1999, were provided on 6 October 2000. The data are unraised, although the coverage is high. The number of sets and catches are given for school, dolphin and log sets, but the number of sets and catches for drifting FADs are not reported separately. (b) Bigeye catch and standard effort data, for 1962–2003, grouped by 'fishery' and year/quarter, have been provided by IATTC; the most recent data, for 1975–2003, were provided on 24 December 2004.

Length Data

• (a) Yellowfin length data, grouped by 'fishery' and quarter, for 1975–2000, were provided on 14 September 2000. (b) Bigeye length data, grouped by 'fishery' and quarter, for 1962–2003, have been provided by IATTC; the most recent data, for 1999–2003, were provided on 24 December 2004.

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APPENDIX III. DISSEMINATION OF DATA BY THE OFP

All instances of dissemination of data by the OFP from 1 July 2004 to 30 June 2005, other than via the OFP website, are listed below.

- 1. On 19 July 2004, Mr Glen Joseph, Deputy Director, Marshall Islands Marine Resources Authority (MIMRA), requested the release of purse seine and pole-and-line set-by-set catch/effort and observer data for the Marshall Islands to Dr Terry Walker, a consultant undertaking work associated with developing a National Shark Assessement Report and a National Shark Plan for the Republic of the Marshall Islands; these data were provided on 23 July 2004.
- 2. On 15 August 2004, Mr Joe Helu, graduate student, Auckland University, New Zealand, was provided with longline catch and effort data aggregated by month and 1° longitude by 1° latitude for the fleets of the Cook Islands, Fiji, French Polynesia, New Caledonia, Samoa and Tonga, and longline catch and effort data aggregated by month and 5° longitude by 5° latitude for the fleets of American Samoa for 1996–2003 and Chinese Taipei distant-water for 1967–2002, for a Ph.D. thesis on South Pacific albacore, part of which was conducted while on attachment to the OFP at SPC headquarters.
- 3. On 23 August 2004, Dr Shyh-Bin Wang, Institute of Marine Resource Management, National Taiwan Ocean University, Taiwan, requested an update of catch and effort data for Taiwanese offshore longliners, grouped by month and 1° longitude by 1° latitude for a general study on the fishing dynamics of Taiwanese fleets in the Pacific Ocean; these data were provided on 24 August 2004.
- 4. On 27 August 2004, Mr Keith Bigelow, National Marine Fisheries Service, Honolulu, requested Japanese longline catch and effort data for 1966–2003, grouped by month, 1° longitude by 1° latitude and "hooks between float", for a project entitled "Migration and habitat preferences of bigeye tuna, Thunnus obesus, on the east coast of Australia a project using archival and conventional tags to determine key uncertainties in the species stock structure, movement dynamics and CPUE trends."; these data were released on 30 August, with authorisation from Japan.
- 5. On 22 September 2004, Mr Keith Bigelow, National Marine Fisheries Service, Honolulu, requested longline, pole-and-line and purse-seine catch and effort data for the WCPO, for 2002, for all flags combined, grouped by month and 5° longitude by 5° latitude; these data were released on 29 September 2004.
- 6. On 7 October 2004, Dr Alain Fonteneau, *Institut de Recherche pour le Développement*, Sète, France, requested catch and effort data covering Taiwanese longliners in the Pacific Ocean, during 1992–2002, grouped by 5° latitude and 5° longitude and month, to compare catch rates for bigeye and swordfish among ocean areas; these data were released on 11 October 2004.
- 7. On 18 October 2004, Dr Alain Fonteneau, *Institut de Recherche pour le Développement*, Sète, France, requested catch and effort data covering Taiwanese offshore longliners in the Pacific Ocean, during 1980–1991, grouped by 5° latitude and 5° longitude and month, to compare catch rates for bigeye and swordfish among ocean areas; these data were released on 26 October 2004.
- 8. On 20 October 2004, Mr Sylvester Pokajam, Acting Managing Director of the Papua New Guinea (PNG) National Fisheries Authority (NFA), requested the release of NFA observer data on marine turtle interactions in PNG fisheries for a project to be undertaken by Mr. Mike McCoy, consultant for US NOAA Fisheries, Honolulu; these data were released on 27 October 2004.
- 9. On 3 November 2004, Mr. Celestine Yangilmau, Assistant Executive Director, Palau Bureau of Oceanic Fishery Management, requested the release of longline, purse seine and pole-and-line set-by-set catch/effort and observer data for Palau to Dr Terry Walker, a consultant undertaking work associated with developing a National Shark Assessement Report and a National Shark Plan for Palau; these data were provided on 4 November 2004.
- 10. On 14 November 2004, Dr Shyh-Bin Wang, Institute of Marine Resource Management, National Taiwan Ocean University, Taiwan, requested an update of catch and effort data for Taiwanese purse seine fleet, grouped by month and 1° longitude by 1° latitude, and the public domain purse seine data (grouped by month and 1° longitude by 1° latitude) for a general study on the fishing dynamics of Taiwanese fleets in the Pacific Ocean; these data were provided on 23 December 2004.

- 11. On 14 November 2004, Dr Shyh-Bin Wang, Institute of Marine Resource Management, National Taiwan Ocean University, Taiwan, requested an update of catch and effort data for Taiwanese longline fleet, grouped by Vessel size category (CT number), month and 1° longitude by 1° latitude for a general study on the fishing dynamics of Taiwanese fleets in the Pacific Ocean; information in the OFP databases on vessel size category was reviewed and the data provided on 3 January 2005.
- 12. On 16 January 2005, Dr Robert Campbell, CSIRO Department of Marine Research, Hobart, Tasmania, Australia, requested longline catch and effort data for an area bounded by the equator, 50S, 140E and 170W, for 1967–2004, by fishing nation, grouped by 5° latitude and 5° longitude and month, for an assessment of swordfish; these data were released on 17 January 2005, except for data for Japan, which were released on 21 January 2005 with authorisation from Japan and data for Korea, which were provided on 7 June 2005 with authorisation from Korea.
- 13. On 27 January 2005, Mr Eun Jung Kim, National Fisheries Research and Development Institute, Busan, Korea, requested an update of skipjack length data, for purse seiners in the WCPO, 1980–2003, grouped by year and month, by 1 cm interval; these data were provided on 15 February 2005.
- 14. On 8 February 2005, Dr Talbot Murray, International Scientis, Science Group, Ministry of Fisheries, New Zealand, requested an update (1962–2002) of public domain longline catch data for Pacific bluefin and southern bluefin, for a study characterising the Pacific and the New Zealand bluefin fisheries for the New Zealand Ministry of Fisheries; these data were provided on 15 February 2005.
- 15. On 9 February 2005, Dr Duane Waliser of the Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, United States of America, requested United States purse-seine catch and effort data, for the WCPO, 1983–2004, grouped by week and 1° longitude by 1° latitude, for a study on the relationship between purse-seine catch rates and the Madden Julian Oscillation (MJO) in collaboration with Dr Patrick Lehodey of the Oceanic Fisheries Programme; these data were provided on 21 February 2005 with authorisation from the Forum Fisheries Agency.
- 16. On 15 February 2005, Mr Peter Ward, Bureau of Resource Sciences, Australia, requested data on longline gear attributes collected by observers operating in the western tropical Pacific Ocean, for his PhD study on the depth distribution of longline catchability; these data were provided on 15 February 2005.
- 17. On 23 May 2005, Mr Joe Helu, graduate student, Auckland University, New Zealand, requested longline catch and effort data aggregated by month and 1° longitude by 1° latitude for the fleets of the Cook Islands, Fiji, French Polynesia, New Caledonia, Samoa and Tonga, and longline catch and effort data aggregated by month and 5° longitude by 5° latitude for the fleets of American Samoa for 1996–2003 and Chinese Taipei distantwater for 1964–2002, for a Ph.D. thesis on the assessment of South Pacific albacore, part of which was conducted while on attachment to the OFP at SPC headquarters; these data were released on 23 May 2005
- 18. On 1 July 2005, Dr Simon Hoyle, Inter-American Tropical Tuna Commission, La Jolla, United States, requested public domain aggregated longline data (5°x5°/month) data, covering the North Pacific Ocean for a study of black-footed albatrosses in the North Pacific Ocean; these data were provided on 4 July 2005.
- 19. On 4 July 2005, Dr Chi-lu Sun, National Taiwan University, requested data covering (i) Taiwanese offshore longliners, for 2000–2004, grouped by 5° latitude and 5° longitude and month, (ii) United States longliners, excluding those based in Hawaii, for 2000–2004, grouped by 5° latitude and 5° longitude and month, (iii) United States longliners based in Hawaii, for 2000–2004, grouped by 5° latitude and 5° longitude and month, (iv) United States purse-seiners, for 2000–2004, grouped by 1° latitude and 1° longitude, month and set type, (iv) Korean purse-seiners, for 1993–2004, grouped by 1° latitude and 1° longitude, month and set type, and (iv) Taiwanese purse-seiners, for 1983–2004, grouped by 1° latitude and 1° longitude, month and set type, for production model analyses to be presented at the 1st meeting of the WCPFC Scientific Committee, 8–19 August 2005, Noumea, New Caledonia. Data covering Taiwanese offshore longliners, United States longliners excluding those based in Hawaii, Korean purse seiners and Taiwanese purse seiners were released on 8 July 2005. Data covering United States purse seiners were released on 9 July 2005, with authorisation from the Forum Fisheries Agency. Data covering Korean longliners were released on 9 July 2005, with authorisation from the National Fisheries Research and Development Institute.
- 20. On 27 June 2005, Ms Aketa Taanga, a Master's degree student at the National Taiwan Ocean University, requested monthly catch and effort data in 1x1 (degree) format for the longline and purse-seine gear for the three fishing zones of Kiribati (Phoenix, Gilbert and Line zones) covering the period 1996-2004.; these data were released on 25 July 2005 with authorisation from the Kiribati Ministry of Fisheries and Marine Resources Development.

Requests for statistics and other information

The OFP receives numerous requests for tuna fishery statistics and other information that do not require the release of data. The requests received and processed by the OFP from 1 July 2004 to 30 June 2005 are listed below.

- 1. On 6 October 2004, Mr Robert Gillett of Gillett, Preston & Associates, Suva, Fiji, requested annual catch estimates for the WCPO, 1950–2003, by species and gear type, and annual catch estimates for the WCPO, averaged over 1999–2003, by EEZs and the high seas, for an Asian Development Bank project; this information was provided on 6 October 2004.
- 2. On 7 October 2004, Mr Juan Ignacio de Leiva Moreno, Fishery Resources Division, Food and Agriculture Organization of the United Nations, Rome, Italy, requested information on the number of medium-scale longliners in the WCPO; this information was provided on 26 October 2004.
- 3. On 9 October 2004, Dr Gary Sakagawa, Senior Scientist for Highly Migratory Species Southwest Fisheries Science Center National Marine Fisheries Service, requested the number of sets from unassociated schools for 1995-2003, by year, for the four main purse-seine fleets combined (Japan, Korea, Taiwan and USA); this information was provided on 11 October 2004.
- 4. On 11 October 2004, Ms Kathy Sisior, Palau Maritime Authority, Palau, requested logsheet catch by species in the Palau EEZ by Japanese vessels; this information was provided on 11 October 2004.
- 5. On 12 October 2004, Ms Kathy Sisior, Palau Maritime Authority, Palau, requested figures for catch landed by port by Japanese vessels fishing in the Palau EEZ; this information was provided on 12 October 2004.
- 6. On 15 October 2004, Mr Carl-Christian Schmidt, Head of the Fisheries Division, Directorate for Food, Agriculture and Fisheries, Organisation for Economic Co-operation and Development, Paris, France, requested information on IUU fishing in the WCPO; this information was provided on 26 October 2004.
- 7. On 29 October 2004, Ms Kathy Sisior, Palau Maritime Authority, Palau, requested figures for shark catch statistics for the Palau EEZ and the WCPO; this information was provided on 29 October 2004.
- 8. On 9 November 2004, Mr Peter (Makoto) Miyake, Federation of Japan Tuna Fisheries Co-Operative Associations, requested an update of annual catch estimates for the WCPO for 2001–2003, by species and by gear type; this information was provided on 9 November 2004.
- 9. On 10 November 2004, Mr Andrew Richards, Manager Monitoring, Control and Surveillance, Forum Fisheries Agency, Solomon Islands, requested information on coverage rates for logsheet data held by the OFP in order to estimate unreported catches; this information was provided on 10 November 2004.
- 10. On 11 November 2004, Dr Miki Ogura, National Research Institute of Far Seas Fisheries, Japan, requested estimates of annual catches of skipjack for the WCPO, by gear type and flag; this information was provided on 11 November 2004.
- 11. On 23 November 2004, Mr Régis Etaix-Bonnin, Ingénieur chargé des pêches, Service territorial de la marine marchande et des pêches maritimes, Noumea, New Caledonia, requested information concerning a Taiwanese-Fijian joint-venture longliner spotted in the New Caledonia EEZ; this information was provided on 23 November 2004.
- 12. On 25 November 2004, Mr Peter (Makoto) Miyake, Federation of Japan Tuna Fisheries Co-Operative Associations, requested estimates of annual catches of for albacore, bigeye, skipjack and yellowfin, for the WCPO, 1970–2003, by flag; this information was provided on 26 November 2004.
- 13. On 30 November 2004, Mr Juan Ignacio de Leiva Moreno, Fishery Resources Division, Food and Agriculture Organization of the United Nations, Rome, Italy, requested an update of estimates of annual tuna catches in the WCPO for the FAO tuna atlas; this information was provided on 1 December 2004.
- 14. On 1 December 2004, Dr Katherine Anderson, Research Analyst, Global, Economic & Electronic Crime Program, Australian Institute of Criminology, Canberra, requested information on IUU fishing in the WCPO; this information was provided on 1 December 2004.
- 15. On 10 December 2004, Dr Miki Ogura, National Research Institute of Far Seas Fisheries, Japan, requested skipjack size frequency summaries for all purse seine fleets over the past 12–18 months to compare with sizes of skipjack taken by the Japanese purse seine fleet in the past year; this information was provided on 10 December 2004.

- 16. On 17 January 2005, Mr Paul Fanning, Project Manager, Lesser Antilles Pelagic Ecosystem (LAPE) Project, FAO Subregional Office, Bridgetown, Barbados, requested information concerning the SPC/OFP policy on the dissemination of tuna fishery data; this information was provided on 17 January 2005.
- 17. On 20 January 2005, Ms Jenny Suter, Associate Scientist, Inter-American Tropical Tuna Commission, La Jolla, California, requested information on fleets catching albacore and swordfish in the southeastern Pacific; this information was provided on 20 January 2005.
- 18. On 22 February, Dr Kate Barclay, Postdoctoral Fellow, Asia Pacific School of Economics and Government, Australian National University, Canberra, requested information on catches by the domestic and locally-based foreign fleets of Papua New Guinea; this information was provided on 24 February 2005.
- 19. On 9 May 2005, Mr Samuel Resma, graduate student at the University of Rhode Island, United States of America, requested summarised catch-at-size data broken down by species (skipjack, yellowfin, bigeye and albacore) and gear type, for his studies; the information prepared for and presented in the Tuna Fisheries Assessment Report 2003 was provided on 17 May 2005.
- 20. On 20 May 2005, Dr Alain Fonteneau, Institut de Recherche pour le Développement, Sète, France, requested summarised catch-at-size data for yellowfin tuna, by decade for the period 1960–2000, for a global study on yellowfin tuna biology and fisheries; these data were provided on 8 June 2005.
- 21. On 31 May 2005, Mr Régis Etaix-Bonnin, Ingénieur chargé des pêches, Service territorial de la marine marchande et des pêches maritimes, Noumea, New Caledonia, requested information concerning Spanish longliners operating in the WCPO; this information was provided on 31 May 2005.
- 22. On 31 May 2005, Dr Robert Campbell, CSIRO Department of Marine Research, Hobart, Tasmania, Australia, requested information concering data formats for catch and effort data used by the OFP and Japan; this information was provided on 31 May 2005.
- 23. On 29 June 2005, Dr Alain Fonteneau, Institut de Recherche pour le Développement, Sète, France, requested summarised sex-at-size data for yellowfin tuna in the western and central Pacific Ocean, for a global study on yellowfin tuna biology and fisheries; these data were provided on 29 June 2005.