

SPAR 2/IP16

SC7524 WP4

DATA CATALOGUE TUNA AND BILLFISH ASSESSMENT PROGRAMME

Revised May 1989

Background

The Tuna and Billfish Assessment Programme was established in September 1981 after completion of the Skipjack Survey and Assessment Programme of the South Pacific Commission. The establishment of the Programme arose from the Twelfth Regional Technical Meeting on Fisheries (17-21 November 1980) which recommended the creation of a "...regional fisheries statistics programme to obtain and analyse catch and effort and other scientific data as the base for the approved research programme on highly migratory species".* Since the inception of the TBAP, the establishment and maintenance of the regional catch and effort database has been the highest priority of the Programme. Practical work on the statistical system began in January 1982 with the recruitment of the first fisheries statistician to the staff of the SPC.

Overview

This catalogue describes the major data holdings of the Tuna and Billfish Assessment Programme as at May 1989. The principal source of data are daily catch and effort logsheets supplied to SPC by member countries of the region. Other data held by the TBAP include (i) summarised statistics of catch and effort supplied by the DWFN countries of Japan, Korea, Taiwan and the American Tunabot Association, (ii) information from the tagging project undertaken by the Skipjack Survey and Assessment Programme, (iii) various data on length frequency sampling, and (iv) unloading statistics and cannery receipt data from American Samoa, Fiji, Guam and the Northern Marianas. The data described are stored in hard copy form (logsheets, statistical bulletins on catch and effort and miscellaneous reports and papers) and electronic media (magnetic computer tape).

The catalogue is made up of tables on (i) catch and effort data, (ii) tagging data, and (iii) length frequency data, each describing the year, source of the data, the time and area stratification and some quantitative indicator of the amount of data in this category (electronic media only). Other information unique to each table (such as gear type used), is detailed to give a better picture of the data holdings. Key code reference tables are provided in the Appendices to explain the coding used throughout the catalogue. Unloading statistics and cannery receipt data are to be incorporated in future versions of the data catalogue.

* Report of Meeting. *Twelfth Regional Technical Meeting on Fisheries, 17-21 November 1980, Noumea, New Caledonia.* South Pacific Commission, Noumea, New Caledonia.

TABLE 1 : CATCH AND EFFORT DATA HOLDINGS

Key to columns

Year	= Year of fishing effort
Flag	= Nationality of fishing vessels (refer to APPENDIX A)
Gear	= Gear type of the fishing vessels (refer to APPENDIX C)
Source	= Source providing the data (refer to APPENDIX A)
Units of Area	= Area stratification (refer to APPENDIX D)
Units of Time	= Time stratification (refer to APPENDIX E)
Units of Catch/Effort	= Units of catch and effort (refer to APPENDIX H)
SPECIES COVERAGE	= Fish species types covered for this group (refer to APPENDIX B)
Media	= Type of media the data is stored on (refer to APPENDIX F)
Number of Records	= Number of records (in units of time stratification) for this group of data

Comments

Under "SPECIES COVERAGE", the "OTH" species category includes data for (1) species not covered in the other principal species categories and (2) unknown species.

TABLE 1 : CATCH AND EFFORT DATA HOLDINGS

Year	Flag	Gear	Source	Area, Time	Catch/ Effort	UNITS							Number of Records			
						SPECIES COVERAGE										
62	JP	L	JB	5,M	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	2,393
63	JP	L	JB	5,M	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	3,976
64	JP	L	JB	5,M	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	4,190
	PV	P	PU	X,D	F	Skj	Yft	Oth							B	412
65	JP	L	JB	5,M	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	3,866
	PV	P	PU	X,D	F	Skj	Yft	Oth							B	1,414
66	JP	L	JB	5,M	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	4,101
	PV	P	PU	X,D	F	Skj	Yft	Oth							B	1,366
67	JP	L	JB	5,M	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	4,198
	PV	P	PU	X,D	F	Skj	Yft	Oth							B	1,400
	TW	L	TB	5,Q -	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	133
68	JP	L	JB	5,M	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	3,974
		P	JB	1,M	E	Skj	Bet	Yft	Oth						H	
	PV	P	PU	X,D	F	Skj	Yft	Oth							B	1,532
	TW	L	TB	5,Q	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	382
69	JP	L	JB	5,M	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	3,753
	PV	P	JB	1,M	E	Skj	Bet	Yft	Oth						H	
		P	PU	X,D	F	Skj	Yft	Oth							B	1,196
	TW	L	TB	5,Q	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	179
70	JP	L	JB	5,M	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	4,026
		P	JB	1,M	E	Skj	Bet	Yft	Oth						H	
	PV	P	PU	X,D	F	Skj	Yft	Oth							B	1,623
	TW	L	TB	5,Q	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	337
71	JP	L	JB	5,M	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	3,389
		P	JB	1,M	E	Skj	Bet	Yft	Oth						H	
	PV	P	PU	X,D	F	Skj	Yft	Oth							B	1,640
	TW	L	TB	5,Q	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	545
72	JP	L	JB	5,M	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	3,156
		P	JB	1,M	E	Skj	Bet	Yft	Oth						B	9,333
	PV	P	PU	X,D	F	Skj	Yft	Oth							B	1,060
	TW	L	TB	5,Y	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	562
73	JP	L	JB	5,M	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	2,999
		P	JB	1,M	E	Skj	Bet	Yft	Oth						B	9,512
	PV	P	PU	X,D	F	Skj	Yft	Oth							B	1,162
	TW	L	TB	5,Y	A	Alb	Bet	Yft	Bft	Mls	Bum	Blm	Swo	Oth	B	487

TABLE 1 : CATCH AND EFFORT DATA HOLDINGS (cont.)

Year	Flag	Gear	Source	UNITS			SPECIES COVERAGE	Media	Number of Records
				Area, Time	Catch/ Effort				
74	JP	L	JB	5,M	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	3,106	
		P	JB	1,M	E	Skj Bet Yft Oth	B	10,719	
	PV	P	PU	X,D	F	Skj Yft Oth	B	1,757	
	TW	L	TB	5,Y	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	398	
75	JP	L	JB	5,M	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	2,783	
		P	JB	1,M	E	Skj Bet Yft Oth	B	11,804	
	KR	L	KB	5,M	A	Alb Bet Yft Bft Mls Bum Swo Sai Shk Oth	H		
	NZ	S	NZ	X,D	G	Skj	T	92	
	PV	P	PU	X,D	F	Skj Yft Oth	B	2,034	
	TW	L	TB	5,Y	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	372	
76	FJ	P	FJ	X,D	F	Skj Yft Oth	B	468	
	JP	L	JB	5,M	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	3,341	
		P	JB	1,M	E	Skj Bet Yft Oth	B	10,500	
	KR	L	KB	5,M	A	Alb Bet Yft Bft Mls Bum Swo Sai Shk Oth	H		
	NZ	S	NZ	X,D	G	Skj	T	620	
	PV	P	PU	X,D	F	Skj Yft Oth	B	1,644	
	TW	L	TB	5,Y	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	287	
77	FJ	P	FJ	X,D	F	Skj Yft Oth	B	835	
	JP	L	JB	5,M	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	2,961	
		P	JB	1,M	E	Skj Bet Yft Oth	B	13,844	
	KR	L	KB	5,M	A	Alb Bet Yft Bft Mls Bum Swo Sai Shk Oth	H		
	NZ	S	NZ	X,D	G	Skj	T	1,035	
	PV	P	PU	X,D	F	Skj Yft Oth	B	1,123	
	TW	L	TB	5,Y	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	465	
78	FJ	P	FJ	X,D	F	Skj Yft Oth	B	987	
	JP	L	JB	5,M	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	2,994	
		L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	196	
	L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	206		
	P	JB	1,M	E	Skj Bet Yft Oth	B	11,291		
	P	KI	X,D	F	Skj Yft Oth	B	41		
	P	SB	X,D	F	Skj Yft Oth	B	9		
	KR	L	KB	5,M	A	Alb Bet Yft Bft Mls Bum Swo Sai Shk Oth	H		
	NZ	S	NZ	X,D	G	Skj ..	T	1,141	
	PV	P	PU	X,D	F	Skj Yft Oth	B	2,245	
	TW	L	TB	5,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	299	
79	JP	L	AU	X,D	J	Alb Bet Yft Mls Bft Bum Blm Swo Sai	T	884	
	L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	11,941		
	L	JB	5,M	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	3,350		
	L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,440		
	L	MI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	19		
	L	NZ	X,D	C	Alb Bft Oth	T	11		

TABLE 1 : CATCH AND EFFORT DATA HOLDINGS (cont.)

Year	Flag	Gear	Source	UNITS		SPECIES COVERAGE	Media	Number of Records	
				Area, Time	Catch/ Effort				
79	JP	L	PG	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,110	
		L	PU	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	2,551	
		L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	2,434	
		P	FM	X,D	F	Skj Yft Oth	B	5,893	
		P	JB	1,M	E	Skj Bet Yft Oth	B	7,564	
		P	KI	X,D	F	Skj Yft Oth	B	569	
		P	MI	X,D	F	Skj Yft Oth	B	27	
		P	PG	X,D	F	Skj Yft Oth	B	54	
		P	SB	X,D	F	Skj Yft Oth	B	118	
		S	FM	X,D	G	Skj Yft Oth	B	284	
		S	PG	X,D	G	Skj Yft Oth	B	127	
		KR	KB	5,M	A	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	878	
		L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	56	
		NZ	NZ	X,D	G	Skj	T	1,390	
80	PV	P	PU	X,D	F	Skj Yft Oth	B	1,764	
		TW	TB	5,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	294	
		FJ	P	FJ	X,D	Skj Yft Oth	B	505	
		JP	L	AU	X,D	J	Alb Bet Yft Mls Bft Bum Blm Swo Sai	T	2,133
			L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	11,898
			L	JB	5,M	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	4,229
			L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	4,620
			L	MI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	3,106
			L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	10,736
			L	PG	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	11,055
			L	PU	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	704
			L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	2,339
			P	FM	X,D	F	Skj Yft Oth	B	5,593
			P	KI	X,D	F	Skj Yft Oth	B	2,259
			P	MI	X,D	F	Skj Yft Oth	B	1,480
81	FJ	P	PG	X,D	F	Skj Yft Oth	B	19	
		P	SB	X,D	F	Skj Yft Oth	B	147	
		S	FM	X,D	G	Skj Yft Oth	B	224	
		S	PG	X,D	G	Skj Yft Oth	B	901	
		S	SB	X,D	G	Skj Yft Oth	B	112	
		KR	L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	230
			S	FM	X,D	G	Skj Yft Oth ..	B	5
		NZ	S	NZ	X,D	G	Skj	T	1,920
		PV	P	PU	X,D	F	Skj Yft Oth	B	1,238
		TW	L	PU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	3,089
			L	SB	X,D	C	Skj Alb Bet Yft Mls Bum Blm Swo Sai Shk Oth	B	77
			L	TB	5,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	371
		FJ	P	FJ	X,D	F	Skj Yft Oth	B	1,320
		JP	L	AU	X,D	J	Alb Bet Yft Mls Bft Bum Blm Swo Sai	T	6,483
			L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	15,039

TABLE 1 : CATCH AND EFFORT DATA HOLDINGS (cont.)

Year	Flag	Gear	Source	UNITS		SPECIES COVERAGE	Media	Number of Records
				Area,	Catch/ Effort			
81	JP	L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,668
		L	MI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	5,490
		L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	10,345
		L	PG	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	14,702
		L	PU	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,513
		L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	4,891
		P	FM	X,D	F	Skj Yft Oth	B	3,685
		P	KI	X,D	F	Skj Yft Oth	B	1,787
		P	MI	X,D	F	Skj Yft Oth	B	2,267
		P	SB	X,D	F	Skj Yft Oth	B	148
		S	FM	X,D	G	Skj Yft Oth	B	662
		S	PG	X,D	G	Skj Yft Oth	B	1,404
		S	SB	X,D	G	Skj Yft Oth	B	189
		KR	SB	X,D	C	Skj Alb Bet Yft Mls Bum Blm Swo Sai Shk Oth	B	228
		L	TV	X,D	C	Skj Alb Bet Yft Bft Mls Bum Swo Shk Oth	B	13
		S	FM	X,D	G	Skj Yft Oth	B	33
NC	P	NC	X,D	F	Skj Yft Oth	B	127	
	NZ	S	NZ	X,D	G	Skj	T	2,008
	PV	P	PU	X,D	F	Skj Yft Oth	B	1,819
	SB	L	SB	X,D	C	Skj Alb Bet Yft Mls Bum Blm Swo Sai Shk Oth	B	121
	P	SB	X,D	F	Skj Yft Oth	B	5,883	
	ST	P	SB	X,D	F	Skj Yft Oth	B	2,262
	TW	L	FJ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	326
	L	TB	5,Q	A		Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	369
	82	FJ	P	FJ	X,D	Skj Yft Oth	B	2,494
	JP	L	AU	X,D	J	Alb Bet Yft Mls Bft Bum Blm Swo Sai	T	6,799
82		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	10,942
		L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	6,149
		L	MI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	5,825
		L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	8,864
		L	PG	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	12,802
		L	PU	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,115
		L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	3,569
		P	FM	X,D	F	Skj Yft Oth	B	741
		P	KI	X,D	F	Skj Yft Oth	B	933
		P	MI	X,D	F	Skj Yft Oth	B	2,803
		P	PG	X,D	F	Skj Yft Oth	B	27
		P	SB	X,D	F	Skj Yft Oth	B	90
		S	FM	X,D	G	Skj Yft Oth	B	1,254
		S	PG	X,D	G	Skj Yft Oth	B	3,954
		S	SB	X,D	G	Skj Yft Oth	B	184
	KR	L	TV	X,D	C	Skj Alb Bet Yft Bft Mls Bum Swo Shk Oth	B	651
		S	PG	X,D	G	Skj Yft Oth	B	194
	NC	P	NC	X,D	F	Skj Yft Oth	B	674
	NZ	S	NZ	X,D	G	Skj	T	1,077

TABLE 1 : CATCH AND EFFORT DATA HOLDINGS (cont.)

Cr	Flag	Gear	Source	UNITS		SPECIES COVERAGE	Media	Number of Records
				Area,	Catch/ Effort			
	PH	S	MI	X,D	G	Skj Yft Oth	B	147
	PV	P	PU	X,D	F	Skj Yft Oth	B	964
	SB	L	SB	X,D	C	Skj Alb Bet Yft Mls Bum Blm Swo Sai Shk Oth	B	393
		P	SB	X,D	F	Skj Yft Oth	B	6,421
	ST	P	SB	X,D	F	Skj Yft Oth	B	2,588
	TO	L	TO	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	155
	TW	L	FJ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,672
		L	TB	5,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	249
	FJ	P	FJ	X,D	F	Skj Yft Oth	B	1,450
	HN	S	PG	X,D	G	Skj Yft Oth	B	25
	JP	L	AU	X,D	J	Alb Bet Yft Mls Bft Bum Blm Swo Sai	T	5,213
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	8,095
		L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	3,127
		L	MI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	5,457
		L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	106
		L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	5,736
		L	PG	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	9,197
		L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,374
		P	FM	X,D	F	Skj Yft Oth	B	1,031
		P	KI	X,D	F	Skj Yft Oth	B	390
		P	MI	X,D	F	Skj Yft Oth	B	4,213
		P	NC	X,D	F	Skj Yft Oth	B	13
		P	PG	X,D	F	Skj Yft Oth	B	202
		S	FM	X,D	G	Skj Yft Oth	B	839
		S	PG	X,D	G	Skj Yft Oth	B	4,606
		S	SB	X,D	G	Skj Yft Oth	B	240
	KR	L	TV	X,D	C	Skj Alb Bet Yft Bft Mls Bum Swo Shk Oth	B	707
		S	FM	X,D	G	Skj Yft Oth	B	7
		S	PG	X,D	G	Skj Yft Oth	B	359
	KY	S	PG	X,D	G	Skj Yft Oth	B	16
	NC	L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	41
		P	NC	X,D	F	Skj Yft Oth	B	279
	NZ	S	FJ	X,D	G	Skj Yft Oth	B	97
	PA	S	PG	X,D	G	Skj Yft Oth	B	14
	SB	L	SB	X,D	C	Skj Alb Bet Yft Mls Bum Blm Swo Sai Shk Oth	B	406
		P	SB	X,D	F	Skj Yft Oth	B	7,487
	ST	P	SB	X,D	F	Skj Yft Oth	B	2,930
	TO	L	TO	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	147
	TW	L	FJ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	199
		L	TB	5,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	H	
		L	VU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	774
	S	PG	X,D	G	Skj Yft Oth	B	229	
84	FJ	P	FJ	X,D	F	Skj Yft Oth	B	1,189
	HN	S	PG	X,D	G	Skj Yft Oth	B	22

TABLE 1 : CATCH AND EFFORT DATA HOLDINGS (cont.)

Year	Flag	Gear	Source	UNITS		SPECIES COVERAGE	Media	Number of Records
				Area, Time	Catch/ Effort			
84	JP	L	AU	X,D	C	Alb Bet Yft Mls Bft Bum Blm Swo Sai-	T	4,173
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	18,272
		L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	6,339
		L	MI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	3,701
		L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	215
		L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	4,431
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	324
		L	PG	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	6,614
		L	PU	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	2,646
		L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,034
		P	FM	X,D	F	Skj Yft Oth	B	3,141
		P	KI	X,D	F	Skj Yft Oth	B	589
		P	MI	X,D	F	Skj Yft Oth	B	1,360
		P	NC	X,D	F	Skj Yft Oth	B	20
		P	PF	X,D	F	Skj Yft Oth	B	6
		P	PG	X,D	F	Skj Yft Oth	B	37
		P	PU	X,D	F	Skj Yft Oth	B	43
		P	SB	X,D	F	Skj Yft Oth	B	39
		S	FM	X,D	G	Skj Yft Oth	B	2,738
		S	PG	X,D	G	Skj Yft Oth	B	3,841
		S	PU	X,D	G	Skj Yft Oth	B	622
		S	SB	X,D	G	Skj Yft Oth	B	245
KR	KR	L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	286
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	12
		L	TV	X,D	C	Skj Alb Bet Yft Bft Mls Bum Swo Shk Oth	B	258
		S	FM	X,D	G	Skj Yft Oth	B	115
		S	PG	X,D	G	Skj Yft Oth	B	539
KY	KY	S	PG	X,D	G	Skj Yft Oth	B	33
		MX	FM	X,D	G	Skj Yft Oth	B	111
NC	NC	S	PG	X,D	G	Skj Yft Oth	B	193
		L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	156
NZ	NZ	S	FJ	X,D	G	Skj Yft Oth	B	70
		PA	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	6
PH	PH	S	PG	X,D	G	Skj Yft Oth	B	213
		SB	L	SB	X,D	Skj Alb Bet Yft Mls Bum Blm Swo Sai Shk Oth	B	322
ST	ST	P	SB	X,D	F	Skj Yft Oth	B	471
		TO	L	TO	X,D	Skj Yft Oth	B	8,158
TW	TW	L	FJ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	3,458
		L	TB	5,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	H	105
US	US	JL	VU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	778
		S	FM	X,D	G	Skj Yft Oth	B	4,910
US	US	S	PG	X,D	G	Skj Yft Oth	B	188
		S	AT	-D	G	Skj Bet Yft Oth	T	448
US	US	S	AT	-D	G	Skj Bet Yft Oth	T	4,929
		S	AT	-D	G	Skj Bet Yft Oth	T	3,197

TABLE 1 : CATCH AND EFFORT DATA HOLDINGS (cont.)

Year	Flag	Gear	Source	UNITS		SPECIES COVERAGE	Media	Number of Records
				Area,	Time			
84	US	S	AT	X,D	G	Skj Bet Yft Oth	T	5,033
		S	AT	X,D	G	Skj Bet Yft Oth	T	3,685
		S	AT	X,D	G	Skj Bet Yft Oth	T	526
		S	AT	X,D	G	Skj Bet Yft Oth	T	91
		S	AT	-,D	G	Skj Bet Yft Oth	T	464
		S	AT	-,D	G	Skj Yft Oth	T	11
		S	PG	X,D	G	Skj Yft Oth	B	721
85	AU	L	AU	X,D	C	Alb Bet Yft Mls Bft Bum Blm Swo Sai	T	12
		FJ	FJ	X,D	F	Skj Yft Oth	B	982
		HN	TV	X,D	C	Alb Bet Yft Oth	B	51
		JP	AU	X,D	C	Alb Bet Yft Mls Bft Bum Blm Swo Sai	T	3,928
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	16,821
		L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	4,186
		L	MI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	3,961
		L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	250
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	859
		L	PG	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	7,213
		L	PU	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,538
		L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	2,832
		P	FM	X,D	F	Skj Yft Oth	B	1,602
		P	KI	X,D	F	Skj Yft Oth	B	715
		P	MI	X,D	F	Skj Yft Oth	B	1,222
		P	NC	X,D	F	Skj Yft Oth	B	10
		P	PG	X,D	F	Skj Yft Oth	B	135
		P	PU	X,D	F	Skj Yft Oth	B	2
		P	SB	X,D	F	Skj Yft Oth	B	460
		S	FM	X,D	G	Skj Yft Oth	B	1,958
		S	PG	X,D	G	Skj Yft Oth	B	3,950
		S	PU	X,D	G	Skj Yft Oth	B	617
	KR	L	CK	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	141
		L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	2,822
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	529
		L	TV	X,D	C	Skj Alb Bet Yft Bft Mls Bum Swo Shk Oth	B	107
		S	FM	X,D	G	Skj Yft Oth	B	243
		S	PG	X,D	G	Skj Yft Oth	B	483
KY	S	PG	X,D	G	Skj Yft Oth	B	221	
	NC	L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	330
NZ	S	FJ	X,D	G	Skj Yft Oth	B	114	
PA	L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	30	
PH	S	PG	X,D	G	Skj Yft Oth	B	87	
SB	S	PG	X,D	G	Skj Yft Oth	B	456	
SO	L	SB	X,D	C	Skj Alb Bet Yft Mls Bum Blm Swo Sai Shk Oth	B	250	
	P	SB	X,D	F	Skj Yft Oth	B	4,396	
	S	SB	X,D	G	Skj Yft Oth	B	47	
SO	S	SB	X,D	G	Skj Yft Oth	B	67	

TABLE 1 : CATCH AND EFFORT DATA HOLDINGS (cont.)

Year	Flag	Gear	Source	UNITS		SPECIES COVERAGE	Media	Number of Records
				Area, Time	Catch/ Effort			
85	ST	P	SB	X,D	F	Skj Yft Oth	B	1,282
	SU	S	KI	X,D	G	Skj Yft Oth	B	274
	TO	L	TO	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	86
	TW	L	FJ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	430
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	736
		L	TB	5,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	H	
		L	VU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	2,992
		S	FM	X,D	G	Skj Yft Oth	B	836
		S	PG	X,D	G	Skj Yft Oth	B	1,247
	US	S	PG	X,D	G	Skj Yft Oth	B	844
86	AU	L	AU	X,D	C	Alb Bet Yft Mls Bft Bum Blm Swo Sai	T	30
	FJ	P	FJ	X,D	F	Skj Yft Oth	B	1,016
	ID	S	FM	X,D	G	Skj Yft Oth	B	42
		S	PG	X,D	G	Skj Yft Oth	B	99
	JP	L	AU	X,D	C	Alb Bet Yft Mls Bft Bum Blm Swo Sai	T	3,542
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	8,276
		L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,035
		L	MI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	2,850
		L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	H	
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	454
		L	PG	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	5,559
		L	PU	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	351
		L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	2,619
		P	FM	X,D	F	Skj Yft Oth	B	4,169
		P	KI	X,D	F	Skj Yft Oth	B	1,280
		P	MI	X,D	F	Skj Yft Oth	B	611
		P	PG	X,D	F	Skj Yft Oth	B	22
		P	PU	X,D	F	Skj Yft Oth	B	8
		P	SB	X,D	F	Skj Yft Oth	B	14
		P	TV	X,D	F	Skj Yft Oth	B	26
		S	FM	X,D	G	Skj Yft Oth	B	3,506
		S	PG	X,D	G	Skj Yft Oth	B	2,748
		S	PU	X,D	G	Skj Yft Oth	B	98
	KI	P	KI	X,D	F	Skj Yft Oth	B	301
	KR	L	CK	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	505
		L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	836
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	775
	KY	S	FM	X,D	G	Skj Yft Oth	B	307
		S	PG	X,D	G	Skj Yft Oth	B	230
		S	FM	X,D	G	Skj Yft Oth	B	38
		S	PG	X,D	G	Skj Yft Oth	B	168
NC	L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	H		
PA	L	CK	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	18	
	L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	65	
	L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	153	

TABLE 1 : CATCH AND EFFORT DATA HOLDINGS (cont.)

Year	Flag	Gear	Source	UNITS		SPECIES COVERAGE	Media	Number of Records
				Area,	Catch/ Effort			
86	PH	S	FM	X,D	G	Skj Yft Oth	B	239
	SB	S	SB	X,D	G	Skj Yft Oth	B	178
	SU	S	KI	X,D	G	Skj Yft Oth	B	1,055
	TO	L	TO	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	132
	TW	L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	20
		L	TB	S,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	H	
		L	VU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	165
		S	FM	X,D	G	Skj Yft Oth	B	819
		S	PG	X,D	G	Skj Yft Oth	B	923
	US	S	PG	X,D	G	Skj Yft Oth	B	584
	VU	S	FM	X,D	G	Skj Yft Oth	B	135
		S	PG	X,D	G	Skj Yft Oth	B	22
87	AU	L	AU	X,D	C	Alb Bet Yft Mls Bft Bum Blm Swo Sai	T	1,052
	FJ	P	FJ	X,D	F	Skj Yft Oth	B	1,022
	ID	S	FM	X,D	G	Skj Yft Oth	B	58
		S	PG	X,D	G	Skj Yft Oth	B	143
	JP	L	AU	X,D	C	Alb Bet Yft Mls Bft Bum Blm Swo Sai	T	4,535
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	12,120
		L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	943
		L	MI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	3,835
		L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	H	
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	668
		L	PG	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	375
		L	PU	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	104
		L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	692
		P	FJ	X,D	F	Skj Yft Oth	B	282
		P	FM	X,D	F	Skj Yft Oth	B	1,012
		P	KI	X,D	F	Skj Yft Oth	B	948
		P	MI	X,D	F	Skj Yft Oth	B	1,201
		P	PG	X,D	F	Skj Yft Oth	B	3
		P	SB	X,D	F	Skj Yft Oth	B	17
		S	FM	X,D	G	Skj Yft Oth	B	4,970
		S	PG	X,D	G	Skj Yft Oth	B	1,389
		S	PU	X,D	G	Skj Yft Oth	B	161
		S	SB	X,D	G	Skj Yft Oth	B	25
	KI	P	KI	X,D	F	Skj Yft Oth	B	684
	KR	L	CK	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	171
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	17
		L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,918
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,191
		L	US	O,D	J	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Oth	T	6,561
		S	FM	X,D	G	Skj Yft Oth	B	1,610
		S	KI	X,D	G	Skj Yft Oth	B	64
	S	PG	X,D	G	Skj Yft Oth	B	1,060	
KY	S	KI	X,D	G	Skj Yft Oth	B	39	

TABLE 1 : CATCH AND EFFORT DATA HOLDINGS (cont.)

Year	Flag	Gear	Source	Area, Time	Catch/ Effort	UNITS		Media	Number of Records
						SPECIES COVERAGE			
87	KY	S	PG	X,D	G	Skj Yft Oth		B	3
	NC	L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		H	
	PA	L	CK	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	50
		L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	815
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	127
		S	FM	X,D	G	Skj Yft Oth		B	28
	PH	S	PG	X,D	G	Skj Yft Oth		B	715
	SB	P	SB	X,D	F	Skj Yft Oth		B	6,903
		S	SB	X,D	G	Skj Yft Oth		B	189
	TO	L	TO	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	196
	TV	P	SB	X,D	F	Skj Yft Oth		B	153
	TW	L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	949
		L	US	o,D	J	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Oth		T	7,355
		L	VU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	43
		S	FM	X,D	G	Skj Yft Oth		B	2,377
		S	PG	X,D	G	Skj Yft Oth		B	1,768
	US	S	FM	X,D	G	Skj Yft Oth		B	252
		S	KI	X,D	G	Skj Yft Oth		B	503
		S	PG	X,D	G	Skj Yft Oth		B	104
	VU	S	FM	X,D	G	Skj Yft Oth		B	108
		S	PG	X,D	G	Skj Yft Oth		B	93
88	AU	L	AU	X,D	C	Alb Bet Yft Mls Bft Bum Blm Swo Sai		T	781
		S	PG	X,D	G	Skj Yft Oth		B	27
	FJ	P	FJ	X,D	F	Skj Yft Oth		B	619
	HN	L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	30
	ID	S	FM	X,D	G	Skj Yft Oth		B	54
		S	PG	X,D	G	Skj Yft Oth		B	83
	JP	L	AU	X,D	C	Alb Bet Yft Mls Bft Bum Blm Swo Sai		T	6,865
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	10,940
		L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	712
		L	MI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	2,298
		L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		H	
		L	PU	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	105
		L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	4,191
		P	FM	X,D	F	Skj Yft Oth		B	1,787
		P	KI	X,D	F	Skj Yft Oth		B	676
		P	MI	X,D	F	Skj Yft Oth ..		B	2,977
		P	SB	X,D	F	Skj Yft Oth		B	15
		P	TV	X,D	F	Skj Yft Oth		B	261
		S	FM	X,D	G	Skj Yft Oth		B	6,304
		S	PU	X,D	G	Skj Yft Oth		B	162
	KI	P	KI	X,D	F	Skj Yft Oth		B	763
	KR	L	CK	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	90
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	16
		L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		B	1,357

TABLE 1 : CATCH AND EFFORT DATA HOLDINGS (cont.)

Year	Flag	Gear	Source	UNITS			SPECIES COVERAGE	Media	Number of Records
				Area,	Time	Catch/ Effort			
88	KR	S	FM	X,D	G	Skj Yft Oth		B	1,002
		S	PG	X,D	G	Skj Yft Oth		B	1,236
KY	S	PG	X,D	G	Skj Yft Oth			B	17
NC	L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth		H		
NZ	P	FJ	X,D	F	Skj Yft Oth			B	45
PA	L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth			B	198
	S	FM	X,D	G	Skj Yft Oth			B	86
	S	PG	X,D	G	Skj Yft Oth			B	68
PH	S	PG	X,D	G	Skj Yft Oth			B	719
SB	P	SB	X,D	F	Skj Yft Oth			B	6,466
	S	SB	X,D	G	Skj Yft Oth			B	179
TQ	L	TO	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth			B	173
TV	P	SB	X,D	F	Skj Yft Oth			B	175
TW	L	FJ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth			B	760
	L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth			B	2,513
	L	VU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth			B	35
	S	FM	X,D	G	Skj Yft Oth			B	3,085
	S	PG	X,D	G	Skj Yft Oth			B	2,373
	S	SB	X,D	G	Skj Yft Oth			B	52
US	S	FM	X,D	G	Skj Yft Oth			B	1,638
	S	KI	X,D	G	Skj Yft Oth			B	132
	S	PG	X,D	G	Skj Yft Oth			B	220
	S	TT	X,D	G	Skj Yft Oth			B	5,768
VU	S	FM	X,D	G	Skj Yft Oth			B	135
	S	PG	X,D	G	Skj Yft Oth			B	146
89	AU	L	AU	X,D	C	Alb Bet Yft Mls Bft Bum Blm Swo Sai		T	3
JP	L	AU	X,D	C	Alb Bet Yft Mls Bft Bum Blm Swo Sai			T	32
	L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth			B	593
	P	FM	X,D	F	Skj Yft Oth			B	7
	S	FM	X,D	G	Skj Yft Oth			B	532
KR	S	PG	X,D	G	Skj Yft Oth			B	2
TW	L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth			B	59
	S	PG	X,D	G	Skj Yft Oth			B	417
US	S	TT	X,D	G	Skj Yft Oth			B	260
VU	S	PG	X,D	G	Skj Yft Oth			B	39

TABLE 2 : SKIPJACK PROGRAMME TAG DATA HOLDINGS

Key to columns

Year	= Year of release.
Geog. Area	= Geographic area where tagging took place (refer to APPENDIX A).
SKJ Tag'd	= The number of skipjack released.
SKJ Cpt'd	= The number of skipjack recaptured.
YFT Tag'd	= The number of yellowfin released.
YFT Cpt'd	= The number of yellowfin recaptured.
OTH Tag'd	= The number of other species released.
OTH Cpt'd	= The number of other species recaptured.
Total Tag'd	= The number of all species released.
Total Cpt'd	= The number of all species recaptured.

Comments

This table represents data holdings for the release and recapture of tuna and associated species as a result of the Skipjack Survey and Assessment Programme conducted from 1977 to 1981. The data are presented by geographic area and year of release. The number of recaptures represents recaptures in the geographic area from fish tagged in all geographic areas combined, and not the number of recaptures from fish tagged within the given geographic area. Species presented include Skipjack, Yellowfin and Other. Other species include: mackerel tuna (*Euthynnus affinis*), rainbow runner (*Elagatis bipinnulatus*), bigeye tuna (*Thunnus obesus*), albacore (*Thunnus alalunga*), frigate tuna (*Auxis thazard*). This data coverage includes recaptures by the tagging vessel.

The Skipjack Programme also generated data on the baitfish fishery, and on biological data for tuna including stomach contents and gonad indices. These data will be incorporated in future versions of this catalogue.

TABLE 2 : SKIPJACK PROGRAMME TAG DATA HOLDINGS

Year	Geog. Area	SKJ Tag'd	SKJ Cpt'd	YFT Tag'd	YFT Cpt'd	OTH Tag'd	OTH Cpt'd	Total Tag'd	Total Cpt'd
77	NC	6,665	13	45				6,710	13
	PG	936	5	20				956	5
	SB	2,569	83	121	1	3		2,693	84
	VU	54	1					54	1
78	AS	75						75	
	FJ	8,265	820	847	79	471	41	9,583	940
	JP	112	14					112	14
	KI	4,553	452	45				4,598	452
	KS	137	3	1				138	3
	MI	296	5	8				304	5
	MR	8						8	
	NC	3,670	25	14				3,684	25
	NK	1,250	1					1,250	1
	PP	928	53	60	1	50		1,038	54
	PU	747	54					747	54
	SI	834	23					834	23
	TI	2,344	15	62	1			2,406	16
	TK	64	1			1		65	1
	TO	1,423	13	260	1	3		1,686	14
	TR	738	38					738	38
	TV	2,711	23	136				2,847	23
	VU	1,155	6	195	2	163		1,513	8
	WF	14,059	112	214	2			14,273	114
	WS	1,797	14	78				1,875	14
	YP	827	25	10	1			837	26
79	KI	214	2	10				224	2
	KS	177	2	601		1		779	2
	MI	41		89	1			130	1
	MQ	10,087	27	165		1		10,253	27
	MR	187	9					187	9
	NW	4,391	29	8		16		4,415	29
	NZ	11,853	614			3		11,856	614
	PG	7,864	1,043	795	32	59	6	8,718	1,081
	PP	954	3	152	1	2		1,108	4
	PX	373	1	17				390	1
	QL	2,724	36	58				2,782	36
	SI	917	13	4				921	13
	SK	9						9	
	TI	2,468	11	32				2,500	11
	TR	343	14					343	14
80	AS	761	4					761	4
	FJ	17,735	1,498	1,658	57	3		19,396	1,555
	GA	177		308		34		519	
	IT					1		1	
	MQ	10,706	22	25		1		10,732	22

TABLE 2 : SKIPJACK PROGRAMME TAG DATA HOLDINGS (cont.)

Year	Geog.	SKJ Tag'd	SKJ Cpt'd	YFT Tag'd	YFT Cpt'd	OTH Tag'd	OTH Cpt'd	Total Tag'd	Total Cpt'd
	Area								
80	NC	26		27				53	
	NF	1,131	3	256	1			1,387	4
	NU	93		31				124	
	NZ	1,149	12					1,149	12
	PN	62		298	2			360	2
	PP	3,757	163	53	1			3,810	164
	PU	6,600	399	1,298	66	18		7,916	465
	SB	3,818	506	760	16	4		4,582	522
	SI	1		34	3			35	3
	SK	50						50	
	TI	825	2	668	4			1,493	6
	TO	580	1	4				584	1
	TV	328	3					328	3
	WF	2,635	26	535	1	2		3,172	27
	WS	162	5			1		163	5
81	PG					1		1	
82	NZ	2,020	97	3		4		2,027	97
		151,435	6,344	10,005	273	842	47	162,282	6,664

TABLE 3 : LENGTH FREQUENCY DATA HOLDINGS

Key to columns

Country of Sample	= Country where length frequency sampling took place (refer to APPENDIX A)
Source	= Country or source providing the data (refer to APPENDIX A)
Area	= Area stratification (refer to APPENDIX D)
Time	= Time stratification (refer to APPENDIX E)
SKJ Sampled	= Number of skipjack sampled
YFT Sampled	= Number of yellowfin sampled
OTH Sampled	= Number of other species sampled
Total Sampled	= Number of all species sampled

Comments

This table incorporates logsheets of length frequency sampling sent to SPC by member countries, information from the Skipjack Survey and Assessment Programme, various observer trips and published material. The species types detailed are Skipjack, Yellowfin and Other.

The data submitted to SPC have been received in various formats, including lengths of individual fish or the numbers of fish in each of a series of size intervals. All data represented in this table have been converted to the numbers of fish in one centimetre size intervals.

TABLE 3 : LENGTH FREQUENCY DATA HOLDINGS

Year	Country	Sample	Source	Time	Area	SKJ	YFT	OTH	Total
						Sampled	Sampled	Sampled	
71	??	SR	M	V	4,326				4,326
72	??	SR	M	V	18,973				18,973
74	??	SR	M	V	11,134				11,134
75	??	SR	M	V	15,545				15,545
76	??	SR	M	V	34,881				34,881
77	NC	SP	D	X	6,665	45			6,710
	PG	SP	D	X	936	20			956
	SB	SP	D	X	2,569	121	3		2,693
	VU	SP	D	X	54				54
	??	SR	M	V	77,340				77,340
78	AS	SP	D	X	75				75
	FJ	SP	D	X	8,265	847	471	9,583	
	JP	SP	D	X	112				112
	KI	SP	D	X	4,553	45			4,598
	KS	SP	D	X	137	1			138
	MI	SP	D	X	296	8			304
	MR	SP	D	X	8				8
	NC	SP	D	X	3,670	14			3,684
	NK	SP	D	X	1,250				1,250
	PP	SP	D	X	928	60	50	1,038	
	PU	SP	D	X	747				747
	SI	SP	D	X	834				834
	TI	SP	D	X	2,344	62			2,406
	TK	SP	D	X	64				65
	TO	SP	D	X	1,423	260	3	1,686	
	TR	SP	D	X	738				738
	TV	SP	D	X	2,711	136			2,847
	VU	SP	D	X	1,155	195	163	1,513	
	WF	SP	D	X	14,059	214			14,273
	WS	SP	D	X	1,797	78			1,875
	YP	SP	D	X	827	10			837
	??	JB	M	V	11,358				11,358
	??	NZ	D	V	201				201
	??	SR	M	V	49,604				49,604
79	KI	SP	D	X	214	10			224
	KS	SP	D	X	177	601	1	779	
	MI	SP	D	X	41	89			130
	MQ	SP	D	X	10,087	165	1	10,253	
	MR	SP	D	X	187				187
	NW	SP	D	X	4,391	8	16	4,415	

TABLE 3 : LENGTH FREQUENCY DATA HOLDINGS (cont.)

Year	Country of Sample	Source	Time	Area	SKJ Sampled	YFT Sampled	OTH Sampled	Total Sampled
79	NZ	SP	D	X	11,853		3	11,856
	PG	SP	D	X	7,864	795	59	8,718
	PP	SP	D	X	954	152	2	1,108
	PX	SP	D	X	373	17		390
	QL	SP	D	X	2,724	58		2,782
	SI	SP	D	X	917	4		921
	SK	SP	D	X	9			9
	TI	SP	D	X	2,468	32		2,500
	TR	SP	D	X	343			343
??	JB	M	V		19,775			19,775
??	NZ	D	V		25,066			25,066
??		SR	M	V	20,006			20,006
80	AS	SP	D	X	761			761
	FJ	SP	D	X	17,735	1,658	3	19,396
	GA	SP	D	X	177	308	34	519
	MQ	SP	D	X	10,706	25	1	10,732
	NC	SP	D	X	26	27		53
	NF	SP	D	X	1,131	256		1,387
	NU	SP	D	X	93	31		124
	NZ	SP	D	X	1,149			1,149
	PN	SP	D	X	62	298		360
	PP	SP	D	X	3,757	53		3,810
	PU	SP	D	X	6,600	1,298	18	7,916
	SB	SP	D	X	3,818	760	4	4,582
	SI	SP	D	X	1	34		35
	SK	SP	D	X	50			50
	TI	SP	D	X	825	668		1,493
	TO	SP	D	X	580	4		584
	TV	SP	D	X	328			328
	WF	SP	D	X	2,635	535	2	3,172
	WS	SP	D	X	162		1	163
??	JB	M	V		941			941
??	NZ	D	V		41,700			41,700
??		SR	M	V	22,006			22,006
81	SB	SB	D	I	4,819	2,870		7,689
??	IA	D	V		300	200	.. 100	600
??	NZ	D	V		71,617			71,617
82	NZ	SP	D	X	2,020	3	4	2,027
	SB	SB	D	I	2,706	1,622		4,328
??	IA	D	V		50	100		150
??	IA	M	V		1,850	1,700	54	3,604
??	OB	D	V		843	413	67	1,323

TABLE 3 : LENGTH FREQUENCY DATA HOLDINGS (cont.)

Year	Country of Sample	Source	Time	Area	SKJ Sampled	YFT Sampled	OTH Sampled	Total Sampled
83	SB	SB	D	I	4,522	1,868		6,390
	??	IA	D	V	50			50
	??	LA	M	V	50	50		100
84	PG	PG	D	-				
	SB	SB	D	I	4,261	215		4,476
85	FM	FM	D	X				
	PG	PG	D	-	26,246	12,136		38,382
	SB	SB	D	I	10,877	2,851		13,728
86	SB	SB	D	I	13,481	3,352		16,833
87	SB	SB	D	I	4,517	2,592		7,109

APPENDIX A : SOURCE AND GEOGRAPHIC AREA CODES***Code Source/Geographic Area***

??	Unknown/Not specified
AT	AMERICAN TUNABOAT ASSOCIATION (ATA)
AS	AMERICAN SAMOA
AU	AUSTRALIA
CK	COOK ISLANDS
FJ	FIJI
FM	FEDERATED STATES OF MICRONESIA
GA	GAMBIER ISLANDS (France)
HB	HOWLAND AND BAKER (United States)
HN	HONDURAS
HW	HAWAII
IA	INTER-AMERICAN TROPICAL TUNA COMMISSION (IATTC)
ID	INDONESIA
IT	INTERNATIONAL
JB	JAPAN PUBLICATIONS (refer to APPENDIX G)
JP	JAPAN
KB	KOREA PUBLICATIONS (refer to APPENDIX G)
KI	KIRIBATI
KR	KOREA
KS	KOSRAE (Federated States of Micronesia)
KY	CAYMAN ISLANDS
LN	LINE ISLANDS (Kiribati)
MI	MARSHALL ISLANDS (France)
MQ	MARQUESAS ISLANDS (France)
MR	MARIANAS ISLANDS
MT	MINAMI TORI SHIMA (Japan)
MX	MEXICO
NC	NEW CALEDONIA (France)
NF	NORFOLK (Australia)
NK	NORTHERN COOK ISLANDS
NR	NAURU
NU	NIUE
NW	NEW SOUTH WALES (Australia)
NZ	NEW ZEALAND
OB	SPC OBSERVER TRIPS
PA	PANAMA
PF	FRENCH POLYNESIA (France)
PG	PAPUA NEW GUINEA
PH	PHILIPPINES
PN	PITCAIRN (United Kingdom)
PP	PONAPE (Federated States of Micronesia)
PU	PALAU

APPENDIX A : SOURCE AND GEOGRAPHIC AREA CODES (cont.)

Code Source/Geographic Area

PV	VAN CAMP - Palau
PX	PHOENIX (Kiribati)
PY	PALMYRA (United States)
QL	QUEENSLAND (Australia)
SB	SOLOMON ISLANDS
SI	SOCIETY ISLANDS (France)
SK	SOUTHERN COOK ISLANDS
SP	SOUTH PACIFIC COMMISSION SKIPJACK PROGRAMME (refer to APPENDIX G)
SR	SOLOMON ISLANDS (refer to APPENDIX G)
TB	TAIWAN PUBLICATIONS (refer to APPENDIX G)
TI	TUAMOTU ISLANDS (France)
TK	TOKELAU (New Zealand)
TO	TONGA
TR	TRUK (Federated States of Micronesia)
TT	USA MULTILATERAL TREATY
TV	TUVALU
TW	TAIWAN
US	UNITED STATES OF AMERICA
VU	VANUATU
WF	WALLIS AND FUTUNA (France)
WK	WAKE (United States)
WS	WESTERN SAMOA
YP	YAP (Federated States of Micronesia)

APPENDIX B : SPECIES CODES

Species

Code Common Name

Scientific Name

ALB	ALBACORE	<i>Thunnus alalunga</i>
BET	BIGEYE	<i>Thunnus obesus</i>
BFT	BLUEFIN	<i>Thunnus thynnus</i>
BLM	BLACK MARLIN	<i>Makaira indica</i>
BUM	BLUE MARLIN	<i>Makaira nigricans</i>
MLS	STRIPED MARLIN	<i>Tetrapturus audax</i>
OTH	'Other species'	
SAI	SAILFISH	<i>Istiophorus platypterus</i>
SHK	SHARK	<i>Elasmobranchii</i>
SKJ	SKIPJACK	<i>Katsuwonus pelamis</i>
SWO	BROADBILL SWORDFISH	<i>Xiphias gladius</i>
YFT	YELLOWFIN	<i>Thunnus albacares</i>

APPENDIX C : GEAR TYPES

Gear
Code Gear Description

- L Longline
- S Purse seine
- P Pole-and-line

APPENDIX D : AREA STRATIFICATION

Area
Code Area Stratification Description

- X Latitude/longitude coordinates to the nearest minute
- 1 One degree grid squares
- 5 Five degree grid squares
- 0 Ten degree grid squares
- V Variation of multiple degree grid squares
- Not supplied

APPENDIX E : TIME STRATIFICATION

Time
Code Time Stratification Description

- D Daily recordings
- M Monthly recordings
- Q Quarterly recordings
- Y Yearly recordings

APPENDIX F : MEDIA TYPES

Media
Code Media Description

- H Hard copy material only. This is in the form of logsheets, statistical bulletins, miscellaneous reports, etc.
- T The data are stored on electronic media (i.e. magnetic tape) only.
- B The data are stored in hard copy form and on magnetic tape.

APPENDIX G : SOURCE DETAILS

<i>Source</i>	<i>Code</i>	<i>Details</i>
JB	63, 65 - 66, 71 - 72, 74 - 80 Longline	<p><i>ANNUAL REPORT OF EFFORT AND CATCH STATISTICS BY AREA ON JAPANESE TUNA LONGLINE FISHERY</i></p> <p>Published by</p> <p>Research Department Fisheries Agency of Japan</p> <p>68 - 80 Pole-and-line</p> <p><i>ANNUAL REPORT OF EFFORT AND CATCH STATISTICS BY AREA ON JAPANESE SKIPJACK BAITBOAT FISHERY</i></p> <p>Published by</p> <p>Research Department Fisheries Agency of Japan</p>
KB	75 - 79 Longline	<p><i>ANNUAL REPORT OF CATCH AND EFFORT STATISTICS AND FISHING GROUNDS ON KOREAN TUNA LONGLINE FISHERY</i></p> <p>Published by</p> <p>Fisheries Research and Development Agency Busan, Korea (Last publication for 1979, published in December 1981)</p>
SP	SOUTH PACIFIC COMMISSION SKIPJACK SURVEY AND ASSESSMENT PROGRAMME CONDUCTED THROUGHOUT THE REGION FROM 1977 TO 1981	
SR	71 - 80 Pole-and-line	<p><i>SOLOMON ISLAND SKIPJACK DATA FROM POLE-AND-LINE VESSELS GIVEN BY MONTH FOR ENTIRE AREA</i></p> <p>Fisheries Division, Ministry of Natural Resources, Solomon Islands</p>

APPENDIX G : SOURCE DETAILS (cont.)

Source
Code *Details*

TB 72 - 86 Longline

ANNUAL CATCH STATISTICS OF TAIWAN'S TUNA LONGLINE FISHERY

Published by

Tuna Research Center
c/o Institute of Oceanography
National Taiwan University
Taipei, Republic of China
(Last publication for 1986, published in December 1987)

APPENDIX H : CODES FOR UNITS OF CATCH AND EFFORT

<i>Code</i>	<i>Gear Type</i>	<i>Units of Catch</i>	<i>Units of Effort</i>	<i>Raised/ Unraised Data</i>
A	L	Number of fish	Number of hooks Number of days fished	Raised
C	L	Number of fish Catch in metric tonnes	Number of hooks Number of days fished	Unraised
E	P	Catch in metric tonnes	Number of days fished	Raised
F	P	Catch in metric tonnes	Number of days fished	Unraised
G	S	Catch in metric tonnes	Number of days fished Number of sets	Unraised
J	L	Number of fish	Number of hooks Number of days fished	Unraised