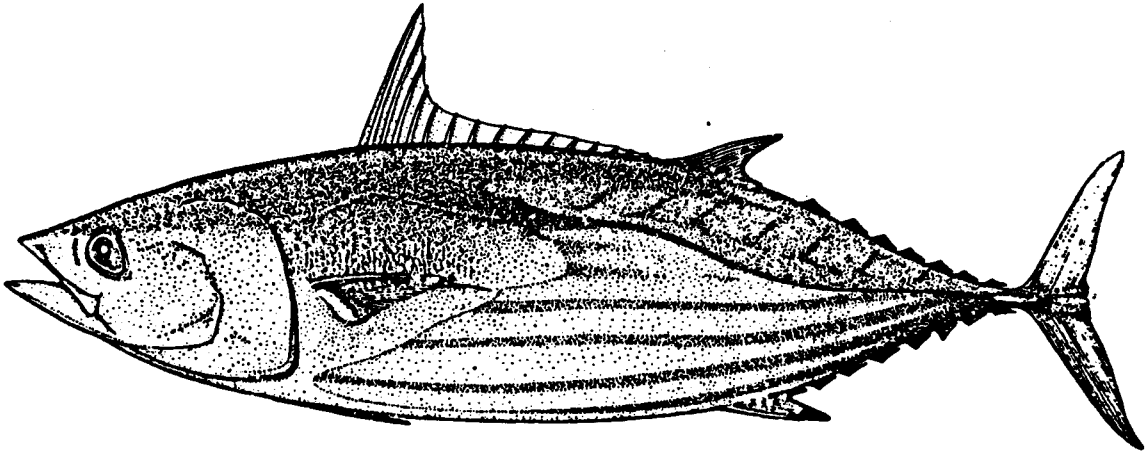


STANDING COMMITTEE ON TUNA AND BILLFISH

6-8 June 1990  
Noumea, New Caledonia

WORKING PAPER 5  
DATA CATALOGUE



Tuna and Billfish Assessment Programme  
South Pacific Commission  
Noumea, New Caledonia

June 1990

## LIST OF TABLES

1.	Catch and effort data .....	3
2.1	Tag release data .....	11
2.2	Tag recovery data .....	13
3.	Length frequency data .....	18
A1.	Nationality of fishing vessels .....	20
A2.	Species codes .....	20
A3.	Gear types .....	20
A4.	Area stratification .....	20
A5.	Time stratification .....	21
A6.	Media of data storage .....	21
A7.	Units of catch and effort .....	21
A8.	Sources of data .....	22
A9.	Country codes for sources of data .....	23
A10.	Country codes for geographic area .....	24

## INTRODUCTION

This catalogue lists the holdings of the following data held by the Tuna and Billfish Assessment programme:

- daily catch and effort data collected by SPC member countries under access agreements with distant-water fishing nations or from domestic vessels;
- aggregated catch and effort data for longliners published by Japan, Korea and Taiwan;
- tag release and recovery data from SPC tagging programmes; and
- size frequency data collected by SPC and by SPC member countries.

Table 1 lists holdings of daily catch and effort data and aggregate data published by Japan, Korea and Taiwan; Table 2 lists holdings of tag release and recovery data; and Table 3 lists holdings of size frequency data.

Other data held by the Tuna and Billfish Assessment Programme, but which are not listed in this catalogue include the following:

- aggregate catch and effort data in the database of the Standing Committee on Tuna and Billfish;
- aggregate catch and effort data and size frequency data in the database of the South Pacific Albacore Research (SPAR) group;
- transshipment and unloading statistics from SPC member countries; and
- various miscellaneous catch and effort data.

The catalogue uses codes for various types of information, such as vessel flag, gear type, source of the data, time-area stratification, units of catch and effort, names of species and media of data storage. Reference tables for each type of code are given in Tables A1-A10.

## NOTES

### TABLE 1. CATCH AND EFFORT DATA

- The column labelled *FLAG* lists the nationality of the owners or operators, and not necessarily to the country where the vessel was registered. Thus, flags of convenience are ignored.
- Under the column labelled *SPECIES COVERAGE*, the species name *OTH* refers to data for species not covered in the other principal species categories, as well as unknown species.

## TABLE 2. TAG RELEASE AND RECOVERY DATA

- Table 2.1 and Table 2.2 list holdings of data covering tag releases and recoveries, respectively, from the Skipjack Survey and Assessment Programme conducted during 1977-1981 and from tagging projects conducted by the Tuna and Billfish Assessment Programme during 1988-1990.
- The column labelled *CRUISE DETAILS* includes a code for the country where the tags were released (Appendix I), a code identifying the tagging project, and a cruise number and the year of the cruise. Thus *AS SSAP 12-78* refers releases in American Samoa (*AS*) by the Skipjack Survey and Assessment Programme (*SSAP*) on cruise 12 during 1978 (*12-78*). The codes identifying the tagging projects are as follows:
 

SSAP	Skipjack Survey and Assessment Programme
RTTP	Regional Tuna Tagging Project
SICT	Solomon Island In-Country Tagging Project
KICT	Kiribati In-Country Tagging Project
- Recapture data for RTTP, SICT and KICT will be included in a later edition of the catalogue.

## TABLE 3. LENGTH FREQUENCY DATA

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

Table 1. Catch and effort data

Year	Flag	Gear	Source	Area, Time	Catch/ Effort	Species Coverage	Media	Number of Records
1962	JP	L	JB	5,M	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	2,393
1963	JP	L	JB	5,M	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	3,976
1964	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
1965	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
1966	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
1967	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
1968	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
1969	JP	L	JB	5,M	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	3,753
	P	JB	1,M	E	Skj Bet Yft Oth	H		
	PV	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
1970	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
1971	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
1972	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
1973	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
1974	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
1975	AU	S	AU	X,D	G	Skj Bet Yft Oth	T	81
	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
1976	AU	P	AU	X,D	F	Skj Bet Yft Oth	T	271
	S	AU	X,D	G	Skj Bet Yft Oth	T	25	
	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

Table 1. Catch and effort data continued

Year	Flag	Gear	Source	Area, Time	Catch/ Effort	Species Coverage	Media	Number of Records	
	TW	L	TB	5,Y	A	Alb Bet Yft Bft Mls Bum Blm Swo Oth	B	287	
1977	AU	P	AU	X,D	F	Skj Bet Yft Oth	T	521	
		S	AU	X,D	G	Skj Bet Yft Oth	T	47	
	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	
	1978	AU	P	AU	X,D	F	Skj Bet Yft Oth	T	524
		S	AU	X,D	G	Skj Bet Yft Oth	T	112	
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	Bet Yft Oth	B	196	
		L	SB	X,D	C	Skj Alb Bet Yft Mls Bum Blm Swo Sai 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 Shk Oth	B	299	
1979		AU	P	AU	X,D	F	Skj Bet Yft Oth	T	224
			S	AU	X,D	G	Skj Bet Yft Oth	T	79
	JP	L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	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	Bet Yft Oth	B	1,432	
		L	MI	X,D	C	Bet Yft Bum Shk Oth	B	19	
		L	NZ	X,D	C	Alb Bft Oth	T	11	
		L	PG	X,D	C	Alb Bet Yft 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	Skj Alb Bet Yft Mls Bum Blm Swo Sai Oth	B	2,373	
		P	FM	X,D	F	Skj Bet 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	573	
		P	MI	X,D	F	Skj Bet Yft Oth	B	27	
		P	PG	X,D	F	Skj Yft Oth	B	54	
		P	SB	X,D	F	Skj Yft Oth	B	103	
	S	FM	X,D	G	Skj Bet Yft Oth	B	284		
	S	PG	X,D	G	Skj Yft Oth	B	127		
	KR	L	KB	5,M	A	Alb Bet Yft Bft Mls Bum Swo Sai Shk Oth	B	878	
		L	KI	X,D	C	Bet Yft Oth	B	56	
	NZ	S	NZ	X,D	G	Skj	T	1,390	
	PV	P	PU	X,D	F	Skj Yft Oth	B	1,764	
TW	L	TB	5,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	294		
1980	AU	P	AU	X,D	F	Skj Bet Yft Oth	T	185	
		S	AU	X,D	G	Skj Bet Yft Oth	T	92	
	FJ	P	FJ	X,D	F	Skj Yft	B	505	
	JP	L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	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	Bet Yft Oth	B	4,600	
		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 Mls Bum Blm Swo Sai Shk Oth	B	11,005	
		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 Mls Bum Blm Swo Sai Shk Oth	B	2,282	
		P	FM	X,D	F	Skj Bet Yft Oth	B	5,593	
		P	KI	X,D	F	Skj Yft Oth	B	2,260	
		P	MI	X,D	F	Skj Bet Yft Oth	B	1,480	
		P	PG	X,D	F	Skj Yft Oth	B	19	
		P	SB	X,D	F	Skj Yft Oth	B	140	
		S	FM	X,D	G	Skj Bet Yft Oth	B	224	

Table 1. Catch and effort data continued

Year	Flag	Gear	Source	Area, Time	Catch/ Effort	Species Coverage	Media	Number of Records
		S	PG	X,D	G	Skj Yft Oth	B	901
		S	SB	X,D	G	Skj Yft Oth	B	112
	KR	L	KB	5,M	A	Alb Bet Yft Bft Mls Bum Swo Sai Shk Oth	H	
		L	KI	X,D	C	Bet Yft 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	Bet Yft Bum Shk Oth	B	3,143
		L	SB	X,D	C	Skj Alb Bet Yft Mls Bum Blm Swo Sai Oth	B	77
		L	TB	5,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	371
1981	AU	P	AU	X,D	F	Skj Bet Yft Oth	T	410
		S	AU	X,D	G	Skj Bet Yft Oth	T	108
	FJ	P	FJ	X,D	F	Skj Yft	B	1,320
	JP	L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	6,483
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	15,039
		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	Skj 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	14,672
		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	Skj Alb Bet Yft Mls Bum Blm Swo Sai Oth	B	4,481
		P	FM	X,D	F	Skj Bet Yft Oth	B	3,685
		P	KI	X,D	F	Skj Alb Bet Yft Bft Oth	B	1,788
		P	MI	X,D	F	Skj Alb Bet Yft Bft Oth	B	2,267
		P	SB	X,D	F	Skj Yft Oth	B	133
		S	FM	X,D	G	Skj Bet 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	L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	472
		L	SB	X,D	C	Skj Alb Bet Yft Mls Bum Blm Swo Sai Oth	B	228
		L	TV	X,D	C	Alb Bet Yft Oth	B	13
		S	FM	X,D	G	Skj Yft Oth	B	33
	NC	P	NC	X,D	F	Skj Bet 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 Oth	B	121
		P	SB	X,D	F	Skj Yft Oth	B	4,752
	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 Shk Oth	B	369
1982	AU	P	AU	X,D	F	Skj Bet Yft Oth	T	437
		S	AU	X,D	G	Skj Bet Yft Oth	T	1
	FJ	P	FJ	X,D	F	Skj Yft	B	2,396
	JP	L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	6,798
		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	6,143
		L	MI	X,D	C	Skj 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	B	57
		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	Skj Alb Bet Yft Mls Bum Blm Swo Sai Oth	B	3,547
		P	FM	X,D	F	Skj Yft Oth	B	741
		P	KI	X,D	F	Skj Alb Bet Yft Bft Oth	B	933
		P	MI	X,D	F	Skj Alb Bet Yft Bft Oth	B	2,803
		P	PG	X,D	F	Skj Yft Oth	B	27
		P	SB	X,D	F	Skj Yft Oth	B	84
		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	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	165
		L	TV	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	651
		S	PG	X,D	G	Skj Yft Oth	B	194
	NC	P	NC	X,D	F	Skj Bet Yft Oth	B	674
	NZ	S	NZ	X,D	G	Skj	T	1,077
	PH	S	MI	X,D	G	Skj Bet 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 Oth	B	393

Table 1. Catch and effort data continued

Year	Flag	Gear	Source	Area, Time	Catch/ Effort	Species Coverage	Media	Number of Records
		P	SB	X,D	F	Skj Yft Oth	B	5,127
	TO	L	TO	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	155
	TV	P	FJ	X,D	F	Skj Yft	B	98
	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 Shk Oth	B	249
1983	AU	P	AU	X,D	F	Skj Bet Yft Oth	T	290
		S	AU	X,D	G	Skj Bet Yft Oth	T	11
	FJ	P	FJ	X,D	F	Skj Yft	B	1,310
	JP	L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	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	Skj 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	B	34
		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	Skj Alb Bet Yft Mls Bum Blm Swo Sai Oth	B	1,373
		P	FM	X,D	F	Skj Yft Oth	B	1,031
		P	KI	X,D	F	Skj Alb Bet Yft Bft Oth	B	390
		P	MI	X,D	F	Skj Alb Bet Yft Bft 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	4,620
		S	SB	X,D	G	Skj Yft Oth	B	240
	KR	L	KB	5,M	A	Alb Bet Yft Bft Mls Bum Swo Sai Shk Oth	H	
		L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	280
		L	TV	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm 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
	NC	L	NC	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	41
		P	NC	X,D	F	Skj Bet Yft Oth	B	279
	NZ	S	FJ	X,D	G	Skj Yft Oth	B	97
	SB	L	SB	X,D	C	Skj Alb Bet Yft Mls Bum Blm Swo Sai Oth	B	406
		P	SB	X,D	F	Skj Yft Oth	B	6,022
	TO	L	TO	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	147
	TV	P	FJ	X,D	F	Skj Yft	B	140
	TW	L	FJ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	188
		L	TB	5,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	173
		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	254
	US	S	PG	X,D	G	Skj Yft Oth	B	16
1984	AU	P	AU	X,D	F	Skj Bet Yft Oth	T	123
	FJ	P	FJ	X,D	F	Skj Yft	B	1,113
	JP	L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	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	6,369
		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	56
		L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	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	1,033
		P	FM	X,D	F	Skj Yft Oth	B	3,141
		P	KI	X,D	F	Skj Alb Bet Yft Bft Oth	B	588
		P	MI	X,D	F	Skj Yft Oth	B	1,354
		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 Alb Bet Yft Bft Oth	B	43
		P	SB	X,D	F	Skj Yft Oth	B	39
		S	FM	X,D	G	Skj Bet Yft Oth	B	2,738
		S	PG	X,D	G	Skj Yft Oth	B	4,054
		S	PU	X,D	G	Skj Bet Yft Oth	B	622
		S	SB	X,D	G	Skj Yft Oth	B	48



Table 1. Catch and effort data continued

Year	Flag	Gear	Source	Area, Time	Catch/ Effort	Species Coverage	Media	Number of Records			
	KR	L	KB	5,M	A	Alb Bet Yft Bft Mls Bum Swo Sai Shk Oth	H				
		L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	256			
		L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	468			
		L	PF	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	18			
		L	TV	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	258			
		S	FM	X,D	G	Skj Yft Oth	B	115			
			PG	X,D	G	Skj Yft Oth	B	539			
			MX	FM	X,D	G	Skj Yft Oth	B	111		
			S	PG	X,D	G	Skj Yft Oth	B	193		
			NC	L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	156	
		NZ	S	FJ	X,D	G	Skj Yft Oth	B	70		
			S	PG	X,D	G	Skj Yft Oth	B	322		
	SB	L	SB	X,D	C	Skj Alb Bet Yft Mls Bum Blm Swo Sai Oth	B	471			
		P	SB	X,D	F	Skj Yft Oth	B	6,429			
		S	SB	X,D	G	Skj Yft Oth	B	191			
	TO	L	TO	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	105			
		TV	P	FJ	X,D	F	Skj Yft	B	76		
	TW	L	FJ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	630			
		L	TB	5,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	184			
		S	L	VU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	4,910		
			S	FM	X,D	G	Skj Yft Oth	B	188		
			S	PG	X,D	G	Skj Yft Oth	B	470		
			US	S	AT	- ,D	G	Skj Bet Yft Oth	T	4,929	
			S	AT	X,D	G	Skj Bet Yft Oth	T	5,033		
			S	AT	X,D	G	Skj Bet Yft Oth	T	526		
			S	AT	- ,D	G	Skj Bet Yft Oth	T	464		
			S	PG	X,D	G	Skj Yft Oth	B	754		
			1985	AU	L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	12
					P	AU	X,D	F	Skj Bet Yft Oth	T	44
	S	AU			X,D	G	Skj Bet Yft Oth	T	22		
	FJ	P		FJ	X,D	F	Skj Yft	B	982		
		JP		L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	3,924	
		L		FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	16,821		
				KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	4,578		
				MI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	3,961		
				NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	250		
				NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	175		
				PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	859		
				PG	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	7,172		
				PU	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,538		
				SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	2,801		
				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 Alb Bet Yft Bft 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	4,037		
KR				L	PU	X,D	G	Skj Bet Yft Oth	B	617	
					CK	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	141	
	KB	5,M			A	Alb Bet Yft Bft Mls Bum Swo Sai Shk Oth	H				
	KI	X,D			C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	2,430			
	NZ	X,D			C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	826			
	PF	X,D			C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	559			
	TV	X,D			C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	158			
	S	FM			X,D	G	Skj Yft Oth	B	243		
	S	PG			X,D	G	Skj Yft Oth	B	483		
	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	
	PH	S			PG	X,D	G	Skj Yft Oth	B	456	
	SB	L			SB	X,D	C	Skj Alb Bet Yft Mls Bum Blm Swo Sai Oth	B	250	
		P			SB	X,D	F	Skj Yft Oth	B	3,755	
		S			SB	X,D	G	Skj Bet Yft Oth	B	95	
					KI	X,D	G	Skj Yft Oth	B	274	
	SU	S			KI	X,D	G	Skj Yft Oth	B	86	
TO	L	TO		X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B				
TW	L	FJ		X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	310			

Table 1. Catch and effort data continued

Year	Flag	Gear	Source	Area, Time	Catch/ Effort	Species Coverage	Media	Number of Records
		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	B	134
		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	AT	-,D	G	Skj Bet Yft Oth	T	3,197
		S	AT	X,D	G	Skj Bet Yft Oth	T	3,685
		S	AT	X,D	G	Skj Bet Yft Oth	T	91
		S	AT	-,D	G	Skj Bet Yft Oth	T	11
		S	PG	X,D	G	Skj Yft Oth	B	1,065
1986	AU	L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	36
		P	AU	X,D	F	Skj Bet Yft Oth	T	86
	FJ	P	FJ	X,D	F	Skj Yft	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 Bft Mls Bum Blm Swo Sai Shk Oth	T	3,803
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	8,276
		L	KI	X,D	C	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 Sai Shk Oth	B	2,850
		L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	375
		L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	565
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	454
		L	PG	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	5,508
		L	PU	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	351
		L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	2,411
		P	FM	X,D	F	Skj Yft Oth	B	4,169
		P	KI	X,D	F	Skj Yft Oth	B	1,228
		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 Alb Bet Yft Bft 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 Bet Yft Oth	B	100
	KI	P	KI	X,D	F	Skj Yft	B	301
	KR	L	CK	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	523
		L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	901
		L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	250
		L	PF	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	928
		S	FM	X,D	G	Skj Yft Oth	B	455
		S	PG	X,D	G	Skj Yft Oth	B	388
	NC	L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	273
	PH	S	FM	X,D	G	Skj Yft Oth	B	239
	SB	P	SB	X,D	F	Skj Bet Yft Oth	B	7,826
		S	SB	X,D	G	Skj Bet Yft Oth	B	178
	SU	S	KI	X,D	G	Skj Yft Oth	B	1,055
	TO	L	TO	X,D	C	Skj 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	5,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	185
		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	FM	X,D	G	Skj Yft Oth	B	38
		S	PG	X,D	G	Skj Yft Oth	B	713
1987	AU	L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	1,221
		P	AU	X,D	F	Skj Bet Yft Oth	T	6
	FJ	P	FJ	X,D	F	Skj Yft	B	891
	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 Bft Mls Bum Blm Swo Sai Shk Oth	T	5,714
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	12,140
		L	KI	X,D	C	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	B	249
		L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	711
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	668

Table 1. Catch and effort data continued

Year	Flag	Gear	Source	Area, Time	Catch/ Effort	Species Coverage	Media	Number of Records
		L	PG	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	375
		L	PU	X,D	C	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	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	1,435
		S	PU	X,D	G	Skj Bet Yft Oth	B	167
		S	SB	X,D	G	Skj Bet Yft Oth	B	25
	KI	P	KI	X,D	F	Skj Bet Yft Oth	B	684
	KR	L	CK	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	221
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	17
		L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	2,774
		L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	417
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,318
		L	US	O,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Oth	T	6,561
		S	FM	X,D	G	Skj Yft Oth	B	1,746
		S	KI	X,D	G	Skj Yft Oth	B	64
		S	PG	X,D	G	Skj Yft Oth	B	1,156
	NC	L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	525
	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 Bet Yft Oth	B	189
	TO	L	TO	X,D	C	Skj 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	TB	5,Q	A	Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	255
		L	US	O,D	C	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	2,286
		S	PG	X,D	G	Skj Yft Oth	B	1,749
	US	S	FM	X,D	G	Skj Yft Oth	B	252
		S	KI	X,D	G	Skj Yft Oth	B	542
		S	PG	X,D	G	Skj Yft Oth	B	104
1988	AU	L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	938
		P	AU	X,D	F	Skj Bet Yft Oth	T	8
		S	AU	X,D	G	Skj Bet Yft Oth	T	3
		S	PG	X,D	G	Skj Yft Oth	B	27
	FJ	P	FJ	X,D	F	Skj Yft	B	678
	ID	S	FM	X,D	G	Skj Yft Oth	B	155
		S	PG	X,D	G	Skj Yft Oth	B	143
	JP	L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	8,372
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	11,433
		L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	778
		L	MI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	2,566
		L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	265
		L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	262
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,729
		L	PU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	188
		L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	4,607
		P	FM	X,D	F	Skj Yft Oth	B	1,809
		P	KI	X,D	F	Skj Yft Oth	B	705
		P	MI	X,D	F	Skj Yft Oth	B	3,053
		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	6,350
		S	PU	X,D	G	Skj Bet Yft Oth	B	181
	KI	P	KI	X,D	F	Skj Bet Yft Oth	B	763
	KR	L	CK	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	220
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	16
		L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	3,372
		L	NZ	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	583
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	923
		S	FM	X,D	G	Skj Yft Oth	B	1,172
		S	PG	X,D	G	Skj Yft Oth	B	1,617

Table 1. Catch and effort data continued

Year	Flag	Gear	Source	Area, Time	Catch/ Effort	Species Coverage	Media	Number of Records
	NC	L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	247
	NZ	P	FJ	X,D	F	Skj Yft	B	45
	PH	S	PG	X,D	G	Skj Yft Oth	B	853
	SB	P	SB	X,D	F	Skj Yft Oth	B	7,605
		S	SB	X,D	G	Skj Bet Yft Oth	B	231
	TO	L	TO	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	173
	TV	P	SB	X,D	F	Skj Yft Oth	B	193
	TW	L	FJ	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,806
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	2,583
		L	VU	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	35
		S	FM	X,D	G	Skj Yft Oth	B	5,253
		S	PG	X,D	G	Skj Yft Oth	B	3,425
	US	S	FM	X,D	G	Skj Yft Oth	B	1,723
		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	6,351
1989	AU	L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	524
		P	AU	X,D	F	Skj Bet Yft Oth	T	19
	FJ	P	FJ	X,D	F	Skj Yft	B	402
	ID	S	PG	X,D	G	Skj Yft Oth	B	178
	JP	L	AU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	T	3,147
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	15,559
		L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	1,080
		L	MI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	2,083
		L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	358
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	513
		L	PU	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	21
		L	SB	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	3,431
		P	FM	X,D	F	Skj Yft Oth	B	1,897
		P	KI	X,D	F	Skj Yft Oth	B	122
		P	MI	X,D	F	Skj Yft Oth	B	192
		P	SB	X,D	F	Skj Yft Oth	B	14
		S	FM	X,D	G	Skj Yft Oth	B	5,719
		S	MI	X,D	G	Skj Yft Oth	B	54
		S	PU	X,D	G	Skj Yft Oth	B	62
	KR	L	CK	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	209
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	33
		L	KI	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Shk Oth	B	2,155
		L	PF	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	12
		S	FM	X,D	G	Skj Yft Oth	B	42
		S	PG	X,D	G	Skj Yft Oth	B	2,140
	NC	L	NC	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	339
	NZ	P	FJ	X,D	F	Skj Yft	B	58
	PH	S	FJ	X,D	G	Skj Yft Oth	B	42
		S	PG	X,D	G	Skj Yft Oth	B	560
	SB	P	SB	X,D	F	Skj Bet Yft Oth	B	7,079
		S	SB	X,D	G	Skj Bet Yft Oth	B	604
	TO	L	TO	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	215
	TW	L	FJ	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	247
		L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	2,305
		L	VU	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	93
		S	FM	X,D	G	Skj Yft Oth	B	3,499
		S	PG	X,D	G	Skj Yft Oth	B	3,896
	US	S	TT	X,D	G	Skj Yft Oth	B	4,723
1990	JP	L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	526
		P	FM	X,D	F	Skj Yft Oth	B	2
		S	FM	X,D	G	Skj Yft Oth	B	86
	KR	L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	11
		L	KI	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	18
	TO	L	TO	X,D	C	Skj Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	8
	TW	L	FM	X,D	C	Alb Bet Yft Bft Mls Bum Blm Swo Sai Shk Oth	B	109
		S	PG	X,D	G	Skj Yft Oth	B	160

Table 2.1. Tag release data

Cruise Details			SKJ Tagged	YFT Tagged	OTH Tagged	Total Tagged	SKJ Capt'd	YFT Capt'd	OTH Capt'd	Total Capt'd	Recapt. Rate	
AS	SSAP	12-78	75	-	-	75	-	-	-	-	0.0	
		50-80	761	-	-	761	4	-	-	4	0.5	
	Total		836	-	-	836	4	-	-	4	0.5	
AU	SSAP	35-79	7,115	66	16	7,197	64	-	-	64	0.9	
CK	SSAP	29-78	1,250	-	-	1,250	1	-	-	1	0.1	
		31-79	9	-	-	9	-	-	-	-	0.0	
		49-80	50	-	-	50	-	-	-	-	0.0	
Total		1,309	-	-	1,309	1	-	-	1	0.1		
FJ	SSAP	06-78	4,354	514	139	5,007	551	55	-	619	12.4	
		07-78	3,906	333	332	4,571	341	27	-	398	8.7	
		57-80	17,734	1,658	2	19,394	1,571	57	-	1,628	8.4	
Total		25,994	2,505	473	28,972	2,463	139	-	2,645	9.1		
FM	SSAP	18-78	1,180	-	-	1,180	63	-	-	63	5.3	
		23-78	53	-	-	53	-	-	-	-	0.0	
		25-78	1,397	71	50	1,518	56	2	-	58	3.8	
		41-79	1,474	753	3	2,230	18	1	-	19	0.9	
		65-80	3,757	53	-	3,810	159	1	-	160	4.2	
Total		7,861	877	53	8,791	296	4	-	300	3.4		
GU	SSAP	19-78	112	-	-	112	15	-	-	15	13.4	
KI	KICT	01-88	347	94	15	456	-	1	-	1	0.2	
		SSAP	16-78	4,535	45	-	4,580	461	-	-	461	10.1
			27-78	18	-	-	18	-	-	-	-	0.0
		43-79	587	27	-	614	3	-	-	3	0.5	
Total		5,487	166	15	5,668	464	1	-	465	8.2		
MI	SSAP	17-78	126	6	-	132	-	-	-	-	0.0	
		26-78	170	2	-	172	4	-	-	4	2.3	
		42-79	41	89	-	130	-	1	-	1	0.8	
Total		337	97	-	434	4	1	-	5	1.2		
MR	SSAP	21-78	8	-	-	8	-	-	-	-	0.0	
		40-79	187	-	-	187	9	-	-	9	4.8	
Total		195	-	-	195	9	-	-	9	4.6		
NC	SSAP	04-77	10,334	59	-	10,393	37	-	-	37	0.4	
		56-80	26	27	-	53	-	-	-	-	0.0	
Total		10,360	86	-	10,446	37	-	-	37	0.4		
NF	SSAP	55-80	1,131	256	-	1,387	4	1	-	5	0.4	
NU	SSAP	52-80	93	31	-	124	-	-	-	-	0.0	
NZ	SSAP	33-79	11,853	-	3	11,856	1,047	-	-	1,047	8.8	
		54-80	1,149	-	-	1,149	12	-	-	12	1.0	
		68-82	2,020	3	4	2,027	23	-	-	23	1.1	
Total		15,022	3	7	15,032	1,082	-	-	1,082	7.2		
PF	SSAP	30-78	8,284	98	-	8,382	65	1	-	66	0.8	
		46-79	19,071	190	1	19,262	49	-	-	49	0.3	
		48-80	1,003	1,010	34	2,047	2	7	-	9	0.4	
Total		28,358	1,298	35	29,691	116	8	-	124	0.4		

Table 2.1. Tag release data continued

Cruise Details	SKJ Tagged	YFT Tagged	OTH Tagged	Total Tagged	SKJ Capt'd	YFT Capt'd	OTH Capt'd	Total Capt'd	Recapt. Rate		
PG RTTP	04-90	1,471	1,885	148	3,500	10	1	-	11	0.3	
	05-90	1,721	2,296	283	4,272	3	-	-	3	0.1	
	06-90	276	106	3	385	-	-	-	-	0.0	
	07-90	598	296	18	912	1	-	-	1	0.1	
	08-90	894	1,112	34	2,031	-	-	-	-	0.0	
	SSAP	01-77	935	20	-	955	6	-	-	6	0.6
		36-79	7,864	795	58	8,717	1,041	28	-	1,076	12.3
Total	13,759	6,510	544	20,772	1,061	29	-	1,097	5.3		
PN SSAP	47-80	62	298	-	360	-	2	-	2	0.6	
PU SSAP	24-78	747	-	-	747	50	-	-	50	6.7	
	66-80	6,600	1,298	18	7,916	311	34	-	345	4.4	
Total	7,347	1,298	18	8,663	361	34	-	395	4.6		
SB RTTP	01-89	88	213	-	301	-	-	-	-	0.0	
	02-89	378	186	48	593	22	27	7	54	9.1	
	03-90	243	196	-	439	-	3	-	3	0.7	
	09-90	219	636	14	869	-	-	-	-	0.0	
	10-90	322	411	1	734	3	7	-	10	1.4	
	11-90	6	166	-	172	-	-	-	-	0.0	
	19-90	117	139	36	292	-	-	-	-	0.0	
	SICT	01-89	4,034	176	-	4,210	541	20	1	561	13.3
		02-89	111	3	-	114	1	-	-	1	0.9
		03-90	1,241	232	1	1,474	150	18	-	168	11.4
	SSAP	02-77	2,569	121	3	2,693	88	1	-	89	3.3
		60-80	3,818	760	3	4,581	461	14	-	475	10.4
	Total	13,146	3,239	106	16,472	1,266	90	8	1,361	8.3	
TO SSAP	08-78	1,423	260	3	1,686	12	1	-	13	0.8	
	53-80	580	4	-	584	1	-	-	1	0.2	
Total	2,003	264	3	2,270	13	1	-	14	0.6		
TU SSAP	28-78	64	-	1	65	1	-	-	1	1.5	
TV SSAP	15-78	2,711	136	-	2,847	24	-	-	24	0.8	
	62-80	328	-	-	328	4	-	-	4	1.2	
Total	3,039	136	-	3,175	28	-	-	28	0.9		
VU SSAP	03-77	54	-	-	54	1	-	-	1	1.9	
	05-78	1,155	195	163	1,513	6	1	-	7	0.5	
Total	1,209	195	163	1,567	7	1	-	8	0.5		
WF SSAP	09-78	14,053	214	-	14,267	125	2	-	127	0.9	
	58-80	2,635	535	2	3,172	28	1	-	29	0.9	
Total	16,688	749	2	17,439	153	3	-	156	0.9		
WS SSAP	11-78	128	22	-	150	1	-	-	1	0.7	
	13-78	1,666	56	-	1,722	18	-	-	18	1.0	
	51-80	162	-	1	163	5	-	-	5	3.1	
Total	1,956	78	1	2,035	24	-	-	24	1.2		

Table 2.2. Tag recovery data

Recapture Area	SKJ Capt'd	YFT Capt'd	OTH Capt'd	Total Capt'd	Cruise Details	SKJ Tagged	YFT Tagged	OTH Tagged	Total Tagged	Recapt. Rate
AS	3	-	-	3	AS SSAP 50-80	761	-	-	761	0.4
	1	-	-	1	AU SSAP 35-79	7,115	66	16	7,197	0.0
	1	-	-	1	KI SSAP 16-78	4,535	45	-	4,580	0.0
	1	-	-	1	WS SSAP 13-78	1,666	56	-	1,722	0.1
FJ	2	-	-	2	AU SSAP 35-79	7,115	66	16	7,197	0.0
	545	55	-	613	FJ SSAP 06-78	13,062	1,542	417	15,021	4.1
	331	27	-	388	FJ SSAP 07-78	11,718	999	996	13,713	2.8
	1,553	53	-	1,606	FJ SSAP 57-80	35,468	3,316	4	38,788	4.1
	1	-	-	1	NF SSAP 55-80	1,131	256	-	1,387	0.1
	24	-	-	24	NZ SSAP 33-79	11,853	-	3	11,856	0.2
	7	-	-	7	NZ SSAP 54-80	1,149	-	-	1,149	0.6
	1	-	-	1	NZ SSAP 68-82	2,020	3	4	2,027	0.0
	1	-	-	1	SB SSAP 60-80	3,818	760	3	4,581	0.0
	-	1	-	1	TO SSAP 08-78	1,423	260	3	1,686	0.1
	1	-	-	1	TV SSAP 15-78	2,711	136	-	2,847	0.0
	1	-	-	1	TV SSAP 62-80	328	-	-	328	0.3
	9	-	-	9	WF SSAP 09-78	14,053	214	-	14,267	0.1
	5	-	-	5	WF SSAP 58-80	2,635	535	2	3,172	0.2
GU	1	-	-	1	PG SSAP 36-79	7,864	795	58	8,717	0.0
HB	1	-	-	1	FM SSAP 25-78	1,397	71	50	1,518	0.1
	1	-	-	1	FM SSAP 65-80	3,757	53	-	3,810	0.0
	24	-	-	24	KI SSAP 16-78	4,535	45	-	4,580	0.5
	1	-	-	1	PF SSAP 46-79	19,071	190	1	19,262	0.0
	5	-	-	5	PG SSAP 36-79	7,864	795	58	8,717	0.1
	1	-	-	1	TV SSAP 15-78	2,711	136	-	2,847	0.0
	4	-	-	4	WF SSAP 09-78	14,053	214	-	14,267	0.0
1	-	-	1	WF SSAP 58-80	2,635	535	2	3,172	0.0	
HW	1	-	-	1	TV SSAP 15-78	2,711	136	-	2,847	0.0
ID	3	-	-	3	FM SSAP 25-78	1,397	71	50	1,518	0.2
	2	-	-	2	GU SSAP 19-78	112	-	-	112	1.8
	7	3	-	10	PG SSAP 36-79	15,728	1,590	116	17,434	0.1
	28	4	-	32	PU SSAP 66-80	13,200	2,596	36	15,832	0.2
	1	-	-	1	SB SSAP 60-80	3,818	760	3	4,581	0.0
IT	1	-	-	1	AU SSAP 35-79	7,115	66	16	7,197	0.0
	2	-	-	2	FJ SSAP 07-78	3,906	333	332	4,571	0.0
	4	3	-	7	FJ SSAP 57-80	35,468	3,316	4	38,788	0.0
	6	-	-	6	FM SSAP 18-78	1,180	-	-	1,180	0.5
	11	-	-	11	FM SSAP 25-78	1,397	71	50	1,518	0.7
	2	-	-	2	FM SSAP 41-79	1,474	753	3	2,230	0.1
	12	-	-	12	FM SSAP 65-80	3,757	53	-	3,810	0.3
	3	-	-	3	GU SSAP 19-78	112	-	-	112	2.7
	31	-	-	31	KI SSAP 16-78	4,535	45	-	4,580	0.7
	1	-	-	1	KI SSAP 43-79	587	27	-	614	0.2
	2	-	-	2	MI SSAP 26-78	170	2	-	172	1.2
	2	-	-	2	MR SSAP 40-79	187	-	-	187	1.1
	2	-	-	2	NC SSAP 04-77	10,334	59	-	10,393	0.0
	3	-	-	3	NZ SSAP 33-79	11,853	-	3	11,856	0.0
	1	-	-	1	NZ SSAP 68-82	2,020	3	4	2,027	0.0
	4	-	-	4	PF SSAP 46-79	19,071	190	1	19,262	0.0
	-	2	-	2	PF SSAP 48-80	1,003	1,010	34	2,047	0.1
	18	2	-	20	PG SSAP 36-79	15,728	1,590	116	17,434	0.1
	-	2	-	2	PN SSAP 47-80	62	298	-	360	0.6
	7	-	-	7	PU SSAP 24-78	747	-	-	747	0.9
62	9	-	71	PU SSAP 66-80	13,200	2,596	36	15,832	0.4	
2	1	-	3	SB SSAP 60-80	7,636	1,520	6	9,162	0.0	
6	-	-	6	TV SSAP 15-78	2,711	136	-	2,847	0.2	
1	-	-	1	TV SSAP 62-80	328	-	-	328	0.3	
9	-	-	9	WF SSAP 09-78	14,053	214	-	14,267	0.1	
2	1	-	3	WF SSAP 58-80	5,270	1,070	4	6,344	0.0	
JP	2	-	-	2	FM SSAP 25-78	1,397	71	50	1,518	0.1
	1	-	-	1	FM SSAP 65-80	3,757	53	-	3,810	0.0
	7	-	-	7	GU SSAP 19-78	112	-	-	112	6.3

Table 2.2. Tag recovery data continued

Recapture Area	SKJ Capt'd	YFT Capt'd	OTH Capt'd	Total Capt'd	Cruise Details	SKJ Tagged	YFT Tagged	OTH Tagged	Total Tagged	Recapt. Rate
	1	-	-	1	MR SSAP 40-79	187	-	-	187	0.5
KI	1	-	-	1	FJ SSAP 57-80	17,734	1,658	2	19,394	0.0
	2	-	-	2	FM SSAP 25-78	1,397	71	50	1,518	0.1
	1	-	-	1	FM SSAP 65-80	3,757	53	-	3,810	0.0
	1	-	-	1	GU SSAP 19-78	112	-	-	112	0.9
	385	-	-	385	KI SSAP 16-78	4,535	45	-	4,580	8.4
	1	-	-	1	KI SSAP 43-79	587	27	-	614	0.2
	-	1	-	1	MI SSAP 42-79	41	89	-	130	0.8
	1	-	-	1	NC SSAP 04-77	10,334	59	-	10,393	0.0
	1	-	-	1	PF SSAP 46-79	19,071	190	1	19,262	0.0
	1	-	-	1	PG SSAP 36-79	7,864	795	58	8,717	0.0
	3	-	-	3	PU SSAP 66-80	6,600	1,298	18	7,916	0.0
	1	-	-	1	SB SSAP 02-77	2,569	121	3	2,693	0.0
	2	-	-	2	TV SSAP 15-78	2,711	136	-	2,847	0.1
	5	-	-	5	WF SSAP 09-78	14,053	214	-	14,267	0.0
KS	11	-	-	11	FM SSAP 18-78	1,180	-	-	1,180	0.9
	8	-	-	8	FM SSAP 25-78	1,397	71	50	1,518	0.5
	9	-	-	9	FM SSAP 65-80	3,757	53	-	3,810	0.2
	1	-	-	1	KI SSAP 16-78	4,535	45	-	4,580	0.0
	1	-	-	1	PG SSAP 36-79	7,864	795	58	8,717	0.0
	3	-	-	3	PU SSAP 66-80	6,600	1,298	18	7,916	0.0
	1	-	-	1	TV SSAP 15-78	2,711	136	-	2,847	0.0
LN	1	-	-	1	KI SSAP 16-78	4,535	45	-	4,580	0.0
MI	3	-	-	3	FM SSAP 18-78	1,180	-	-	1,180	0.3
	3	-	-	3	FM SSAP 25-78	1,397	71	50	1,518	0.2
	5	-	-	5	FM SSAP 41-79	1,474	753	3	2,230	0.2
	26	-	-	26	FM SSAP 65-80	3,757	53	-	3,810	0.7
	1	-	-	1	GU SSAP 19-78	112	-	-	112	0.9
	14	-	-	14	KI SSAP 16-78	4,535	45	-	4,580	0.3
	1	-	-	1	MI SSAP 26-78	170	2	-	172	0.6
	7	-	-	7	PG SSAP 36-79	7,864	795	58	8,717	0.1
	1	-	-	1	PU SSAP 24-78	747	-	-	747	0.1
	5	-	-	5	PU SSAP 66-80	6,600	1,298	18	7,916	0.1
	2	-	-	2	TV SSAP 15-78	2,711	136	-	2,847	0.1
	2	-	-	2	TV SSAP 62-80	328	-	-	328	0.6
	3	-	-	3	WF SSAP 09-78	14,053	214	-	14,267	0.0
MQ	1	-	-	1	PF SSAP 30-78	8,284	98	-	8,382	0.0
	41	-	-	41	PF SSAP 46-79	19,071	190	1	19,262	0.2
MR	3	-	-	3	FM SSAP 25-78	1,397	71	50	1,518	0.2
	1	-	-	1	FM SSAP 65-80	3,757	53	-	3,810	0.0
	1	-	-	1	GU SSAP 19-78	112	-	-	112	0.9
	2	-	-	2	MR SSAP 40-79	187	-	-	187	1.1
	1	-	-	1	NC SSAP 04-77	10,334	59	-	10,393	0.0
	1	-	-	1	PU SSAP 66-80	6,600	1,298	18	7,916	0.0
MS	1	-	-	1	MR SSAP 40-79	187	-	-	187	0.5
NC	9	-	-	9	AU SSAP 35-79	7,115	66	16	7,197	0.1
	1	-	-	1	FJ SSAP 57-80	17,734	1,658	2	19,394	0.0
	18	-	-	18	NC SSAP 04-77	10,334	59	-	10,393	0.2
	2	-	-	2	NF SSAP 55-80	1,131	256	-	1,387	0.1
	5	-	-	5	NZ SSAP 33-79	11,853	-	3	11,856	0.0
	2	-	-	2	NZ SSAP 68-82	2,020	3	4	2,027	0.1
	1	-	-	1	WF SSAP 09-78	14,053	214	-	14,267	0.0
NF	-	1	-	1	NF SSAP 55-80	1,131	256	-	1,387	0.1
	1	-	-	1	NZ SSAP 33-79	11,853	-	3	11,856	0.0
NK	1	-	-	1	CK SSAP 29-78	1,250	-	-	1,250	0.1



Table 2.2. Tag recovery data continued

Recapture Area	SKJ Capt'd	YFT Capt'd	OTH Capt'd	Total Capt'd	Cruise Details	SKJ Tagged	YFT Tagged	OTH Tagged	Total Tagged	Recapt. Rate
NR	1	-	-	1	FJ SSAP 07-78	3,906	333	332	4,571	0.0
	1	-	-	1	KI SSAP 16-78	4,535	45	-	4,580	0.0
	1	-	-	1	MI SSAP 26-78	170	2	-	172	0.6
	1	-	-	1	TV SSAP 15-78	2,711	136	-	2,847	0.0
NW	2	-	-	2	AU SSAP 35-79	7,115	66	16	7,197	0.0
	1	-	-	1	NZ SSAP 33-79	11,853	-	3	11,856	0.0
	1	-	-	1	NZ SSAP 54-80	1,149	-	-	1,149	0.1
NZ	9	-	-	9	AU SSAP 35-79	7,115	66	16	7,197	0.1
	1	-	-	1	FJ SSAP 06-78	4,354	514	139	5,007	0.0
	2	-	-	2	FJ SSAP 07-78	3,906	333	332	4,571	0.0
	1,002	-	-	1,002	NZ SSAP 33-79	11,853	-	3	11,856	8.5
	1	-	-	1	NZ SSAP 54-80	1,149	-	-	1,149	0.1
	18	-	-	18	NZ SSAP 68-82	2,020	3	4	2,027	0.9
	6	-	-	6	WF SSAP 09-78	14,053	214	-	14,267	0.0
	1	-	-	1	WS SSAP 13-78	1,666	56	-	1,722	0.1
PG	1	-	-	1	FM SSAP 25-78	1,397	71	50	1,518	0.1
	2	-	-	2	NC SSAP 04-77	10,334	59	-	10,393	0.0
	3	-	-	3	PG SSAP 01-77	935	20	-	955	0.3
	956	19	-	981	PG SSAP 36-79	23,592	2,385	174	26,151	3.8
	1	-	-	1	PU SSAP 24-78	747	-	-	747	0.1
	76	13	-	89	PU SSAP 66-80	13,200	2,596	36	15,832	0.6
	4	-	-	4	SB SSAP 02-77	2,569	121	3	2,693	0.1
	12	-	-	12	SB SSAP 60-80	3,818	760	3	4,581	0.3
	1	-	-	1	TV SSAP 15-78	2,711	136	-	2,847	0.0
	1	-	-	1	VU SSAP 05-78	1,155	195	163	1,513	0.1
	2	-	-	2	WF SSAP 09-78	14,053	214	-	14,267	0.0
PP	28	-	-	28	FM SSAP 18-78	1,180	-	-	1,180	2.4
	10	-	-	10	FM SSAP 25-78	1,397	71	50	1,518	0.7
	6	-	-	6	FM SSAP 41-79	1,474	753	3	2,230	0.3
	89	1	-	90	FM SSAP 65-80	7,514	106	-	7,620	1.2
	1	-	-	1	KI SSAP 16-78	4,535	45	-	4,580	0.0
	1	-	-	1	MR SSAP 40-79	187	-	-	187	0.5
	2	-	-	2	NC SSAP 04-77	10,334	59	-	10,393	0.0
	3	1	-	4	PG SSAP 36-79	15,728	1,590	116	17,434	0.0
	1	-	-	1	PU SSAP 24-78	747	-	-	747	0.1
8	1	-	9	PU SSAP 66-80	13,200	2,596	36	15,832	0.1	
PU	1	-	-	1	FM SSAP 25-78	1,397	71	50	1,518	0.1
	2	-	-	2	PG SSAP 36-79	7,864	795	58	8,717	0.0
	33	-	-	33	PU SSAP 24-78	747	-	-	747	4.4
	76	3	-	79	PU SSAP 66-80	13,200	2,596	36	15,832	0.5
PX	1	-	-	1	FJ SSAP 07-78	3,906	333	332	4,571	0.0
	5	1	-	6	FJ SSAP 57-80	35,468	3,316	4	38,788	0.0
	1	-	-	1	KI SSAP 16-78	4,535	45	-	4,580	0.0
	1	-	-	1	PF SSAP 46-79	19,071	190	1	19,262	0.0
	1	-	-	1	TO SSAP 08-78	1,423	260	3	1,686	0.1
	1	-	-	1	TV SSAP 15-78	2,711	136	-	2,847	0.0
	22	-	-	22	WF SSAP 09-78	14,053	214	-	14,267	0.2
	2	-	-	2	WF SSAP 58-80	2,635	535	2	3,172	0.1
PY	1	-	-	1	KI SSAP 16-78	4,535	45	-	4,580	0.0
	1	-	-	1	KI SSAP 43-79	587	27	-	614	0.2
	2	-	-	2	PG SSAP 36-79	7,864	795	58	8,717	0.0
	1	-	-	1	TV SSAP 15-78	2,711	136	-	2,847	0.0
QL	2	-	-	2	AU SSAP 35-79	7,115	66	16	7,197	0.0
	1	-	-	1	PG SSAP 36-79	7,864	795	58	8,717	0.0
	-	1	-	1	SB SSAP 60-80	3,818	760	3	4,581	0.0

Table 2.2. Tag recovery data continued

Recapture Area	SKJ Capt'd	YFT Capt'd	OTH Capt'd	Total Capt'd	Cruise Details	SKJ Tagged	YFT Tagged	OTH Tagged	Total Tagged	Recapt. Rate
SB	33	-	-	33	AU SSAP 35-79	7,115	66	16	7,197	0.5
	1	-	-	1	FM SSAP 41-79	1,474	753	3	2,230	0.0
	10	-	-	10	NC SSAP 04-77	10,334	59	-	10,393	0.1
	1	-	-	1	NF SSAP 55-80	1,131	256	-	1,387	0.1
	3	-	-	3	PG SSAP 01-77	935	20	-	955	0.3
	23	-	-	24	PG SSAP 36-79	15,728	1,590	116	17,434	0.1
	2	-	-	2	PU SSAP 66-80	6,600	1,298	18	7,916	0.0
	83	1	-	84	SB SSAP 02-77	5,138	242	6	5,386	1.6
	445	12	-	457	SB SSAP 60-80	7,636	1,520	6	9,162	5.0
	2	-	-	2	TV SSAP 15-78	2,711	136	-	2,847	0.1
	4	1	-	5	VU SSAP 05-78	2,310	390	326	3,026	0.2
	1	-	-	1	WS SSAP 13-78	1,666	56	-	1,722	0.1
	SI	1	-	-	1	AU SSAP 35-79	7,115	66	16	7,197
1		-	-	1	FJ SSAP 07-78	3,906	333	332	4,571	0.0
4		-	-	4	NZ SSAP 33-79	11,853	-	3	11,856	0.0
1		-	-	1	NZ SSAP 54-80	1,149	-	-	1,149	0.1
1		-	-	1	NZ SSAP 68-82	2,020	3	4	2,027	0.0
39		1	-	40	PF SSAP 30-78	16,568	196	-	16,764	0.2
1		-	-	1	PF SSAP 46-79	19,071	190	1	19,262	0.0
2		5	-	7	PF SSAP 48-80	2,006	2,020	68	4,094	0.2
1		-	-	1	TO SSAP 08-78	1,423	260	3	1,686	0.1
3		-	-	3	WF SSAP 09-78	14,053	214	-	14,267	0.0
1		-	-	1	WS SSAP 51-80	162	-	1	163	0.6
TI	25	-	-	25	PF SSAP 30-78	8,284	98	-	8,382	0.3
TK	1	-	-	1	AU SSAP 35-79	7,115	66	16	7,197	0.0
	13	-	-	13	FM SSAP 18-78	1,180	-	-	1,180	1.1
	4	-	-	4	FM SSAP 25-78	1,397	71	50	1,518	0.3
	4	1	-	5	FM SSAP 41-79	2,948	1,506	6	4,460	0.1
	11	-	-	11	FM SSAP 65-80	3,757	53	-	3,810	0.3
	2	-	-	2	MR SSAP 40-79	187	-	-	187	1.1
	1	-	-	1	NC SSAP 04-77	10,334	59	-	10,393	0.0
	11	1	-	12	PG SSAP 36-79	15,728	1,590	116	17,434	0.1
	1	-	-	1	PU SSAP 24-78	747	-	-	747	0.1
	22	-	-	22	PU SSAP 66-80	6,600	1,298	18	7,916	0.3
1	-	-	1	WF SSAP 09-78	14,053	214	-	14,267	0.0	
TO	2	-	-	2	FJ SSAP 06-78	4,354	514	139	5,007	0.0
	1	-	-	1	NZ SSAP 33-79	11,853	-	3	11,856	0.0
	9	-	-	9	TO SSAP 08-78	1,423	260	3	1,686	0.5
	1	-	-	1	TO SSAP 53-80	580	4	-	584	0.2
TU	1	-	-	1	NZ SSAP 33-79	11,853	-	3	11,856	0.0
	1	-	-	1	TU SSAP 28-78	64	-	1	65	1.5
TV	2	-	-	2	FJ SSAP 06-78	4,354	514	139	5,007	0.0
	5	-	-	5	FJ SSAP 57-80	17,734	1,658	2	19,394	0.0
	1	-	-	1	NZ SSAP 54-80	1,149	-	-	1,149	0.1
	2	-	-	2	TV SSAP 15-78	2,711	136	-	2,847	0.1
	1	-	-	1	WF SSAP 09-78	14,053	214	-	14,267	0.0
VU	2	-	-	2	AU SSAP 35-79	7,115	66	16	7,197	0.0
	1	-	-	1	NZ SSAP 33-79	11,853	-	3	11,856	0.0
	1	-	-	1	VU SSAP 03-77	54	-	-	54	1.9
	1	-	-	1	VU SSAP 05-78	1,155	195	163	1,513	0.1
WF	1	-	-	1	FJ SSAP 07-78	3,906	333	332	4,571	0.0
	2	-	-	2	FJ SSAP 57-80	17,734	1,658	2	19,394	0.0
	49	2	-	51	WF SSAP 09-78	28,106	428	-	28,534	0.2
	17	-	-	17	WF SSAP 58-80	2,635	535	2	3,172	0.5
WK	1	-	-	1	FJ SSAP 06-78	4,354	514	139	5,007	0.0
	-	1	-	1	FM SSAP 25-78	1,397	71	50	1,518	0.1

Table 2.2. Tag recovery data continued

Recapture Area	SKJ Capt'd	YFT Capt'd	OTH Capt'd	Total Capt'd	Cruise Details	SKJ Tagged	YFT Tagged	OTH Tagged	Total Tagged	Recapt. Rate
WS	1	-	-	1	AS SSAP 50-80	761	-	-	761	0.1
	1	-	-	1	AU SSAP 35-79	7,115	66	16	7,197	0.0
	2	-	-	2	FJ SSAP 07-78	3,906	333	332	4,571	0.0
	4	-	-	4	NZ SSAP 33-79	11,853	-	3	11,856	0.0
	1	-	-	1	NZ SSAP 54-80	1,149	-	-	1,149	0.1
	1	-	-	1	TO SSAP 08-78	1,423	260	3	1,686	0.1
	1	-	-	1	TV SSAP 15-78	2,711	136	-	2,847	0.0
	10	-	-	10	WF SSAP 09-78	14,053	214	-	14,267	0.1
	1	-	-	1	WF SSAP 58-80	2,635	535	2	3,172	0.0
	1	-	-	1	WS SSAP 11-78	128	22	-	150	0.7
	15	-	-	15	WS SSAP 13-78	1,666	56	-	1,722	0.9
	4	-	-	4	WS SSAP 51-80	162	-	1	163	2.5
	YP	2	-	-	2	FM SSAP 18-78	1,180	-	-	1,180
7		1	-	8	FM SSAP 25-78	2,794	142	100	3,036	0.3
8		-	-	8	FM SSAP 65-80	3,757	53	-	3,810	0.2
3		2	-	5	PG SSAP 36-79	15,728	1,590	116	17,434	0.0
6		-	-	6	PU SSAP 24-78	747	-	-	747	0.8
25		4	-	29	PU SSAP 66-80	13,200	2,596	36	15,832	0.2
1		-	-	1	TV SSAP 15-78	2,711	136	-	2,847	0.0

Table 3. Length frequency data

Year	Country of Sample	Source	Time	Area	SKJ Sampled	YFT Sampled	ALB Sampled	OTH Sampled	Total Sampled
1971	SB	SR	M	V	4,326	-	-	-	4,326
1972	SB	SR	M	V	18,973	-	-	-	18,973
1974	SB	SR	M	V	11,134	-	-	-	11,134
1975	SB	SR	M	V	15,545	-	-	-	15,545
1976	SB	SR	M	V	34,359	-	-	-	34,359
1977	??	JB	M	V	-	858	-	-	858
	NC	SSAP	D	X	10,334	59	-	-	10,393
	PG	SSAP	D	X	935	20	-	-	955
	SB	SR	M	V	77,340	-	-	-	77,340
	SB	SSAP	D	X	2,569	121	-	3	2,693
	VU	SSAP	D	X	54	-	-	-	54
1978	??	JB	M	V	11,358	1,610	-	-	12,968
	AS	SSAP	D	X	75	-	-	-	75
	CK	SSAP	D	X	1,250	-	-	-	1,250
	FJ	SSAP	D	X	8,260	847	-	471	9,578
	FM	SSAP	D	X	2,630	71	-	50	2,751
	GU	SSAP	D	X	112	-	-	-	112
	KI	SSAP	D	X	4,553	45	-	-	4,598
	MI	SSAP	D	X	296	8	-	-	304
	MR	SSAP	D	X	8	-	-	-	8
	NZ	NZ	D	V	201	-	-	-	201
	PF	SSAP	D	X	8,284	98	-	-	8,382
	PU	SSAP	D	X	747	-	-	-	747
	SB	SR	M	V	50,304	-	-	-	50,304
	TO	SSAP	D	X	1,423	260	-	3	1,686
	TU	SSAP	D	X	64	-	-	-	64
	TV	SSAP	D	X	2,711	136	-	1	2,847
	VU	SSAP	D	X	1,155	195	-	163	1,513
	WF	SSAP	D	X	14,053	214	-	-	14,267
	WS	SSAP	D	X	1,794	78	-	-	1,872
1979	??	JB	M	V	19,775	1,231	-	-	21,006
	AU	SSAP	D	X	7,115	66	-	16	7,197
	CK	SSAP	D	X	9	-	-	-	9
	FM	SSAP	D	X	1,474	753	-	3	2,230
	KI	SSAP	D	X	587	27	-	-	614
	MI	SSAP	D	X	41	89	-	-	130
	MR	SSAP	D	X	187	-	-	-	187
	NZ	NZ	D	V	25,066	-	-	-	25,066
	NZ	SSAP	D	X	11,853	-	-	3	11,856
	PF	SSAP	D	X	19,071	190	-	1	19,262
	PG	SSAP	D	X	7,864	795	-	58	8,717
	SB	SR	M	V	19,965	-	-	-	19,965
1980	??	JB	M	V	941	912	-	-	1,853
	AS	SSAP	D	X	761	-	-	-	761
	CK	SSAP	D	X	50	-	-	-	50
	FJ	SSAP	D	X	17,734	1,658	-	2	19,394
	FM	SSAP	D	X	3,757	53	-	-	3,810
	NC	SSAP	D	X	26	27	-	-	53
	NF	SSAP	D	X	1,131	256	-	-	1,387
	NU	SSAP	D	X	93	31	-	-	124
	NZ	NZ	D	V	41,700	-	-	-	41,700
	NZ	SSAP	D	X	1,149	-	-	-	1,149
	PF	SSAP	D	X	1,003	1,010	-	34	2,047
	PN	SSAP	D	X	62	298	-	-	360
	PU	SSAP	D	X	6,600	1,298	-	18	7,916
	SB	SR	M	V	22,006	-	-	-	22,006
	SB	SSAP	D	X	3,818	760	-	3	4,581
	TO	SSAP	D	X	580	4	-	-	584
	TV	SSAP	D	X	328	-	-	-	328
	WF	SSAP	D	X	2,635	535	-	2	3,172
	WS	SSAP	D	X	162	-	-	1	163

Table 3. Length frequency data continued

Year	Country of Sample	Source	Time	Area	SKJ Sampled	YFT Sampled	ALB Sampled	OTH Sampled	Total Sampled
1981	??	IA	D	V	300	200	-	100	600
	??	JB	M	V	-	195	-	-	195
	NZ	NZ	D	V	71,617	-	-	-	71,617
	SB	SB	D	1	4,819	2,870	-	-	7,689
1982	??	IA	D	V	1,900	1,800	-	54	3,754
	??	JB	M	V	-	4,821	-	-	4,821
	??	OB	D	V	843	413	-	67	1,323
	NZ	SSAP	D	X	2,020	3	-	4	2,027
	SB	SB	D	1	2,706	1,622	-	-	4,328
	??	IA	D	V	100	50	-	-	150
1983	SB	SB	D	1	4,522	1,868	-	-	6,390
	PG	PG	D	-	2,671	1,299	-	-	3,970
1984	SB	SB	D	1	4,261	215	-	-	4,476
	PG	PG	D	-	8,990	4,734	-	-	13,724
1985	SB	SB	D	1	10,991	2,891	-	-	13,882
	SB	SB	D	1	13,481	3,352	-	-	16,833
1987	SB	SB	D	1	4,742	2,792	-	74	7,608
1988	KI	KICT	D	X	347	94	-	15	456
	SB	SB	D	1	4,803	3,333	-	44	8,180
	SZ	NZ	D	V	-	-	351	-	351
	TS	TS	D	X	6,478	2,079	-	108	8,665
	TT	TT	D	X	9,310	11,600	-	2,809	23,719
	NC	SP	D	X	478	-	1,438	-	1,916
1989	SB	RTTP	D	X	466	399	-	48	894
	SB	SB	D	1	10,334	3,627	-	538	14,499
	SB	SICT	D	X	4,145	179	-	-	4,324
	SZ	NZ	D	V	-	-	10,208	-	10,208
	TS	TS	D	X	6,044	3,452	-	780	10,276
	TT	TT	D	X	13,882	17,471	-	3,230	34,583
	PG	RTTP	D	X	4,960	5,695	-	486	11,100
	SB	RTTP	D	X	907	1,548	-	51	2,506
1990	SB	SICT	D	X	1,241	232	-	1	1,474

Table A1. Nationality of fishing vessels

Code	Vessel Nationality
AU	AUSTRALIA
FJ	FIJI
ID	INDONESIA
JP	JAPAN
KI	KIRIBATI
KR	REPUBLIC OF KOREA
MX	MEXICO
NC	NEW CALEDONIA (France)
NZ	NEW ZEALAND
PH	PHILIPPINES
PV	VAN CAMP - PALAU
SB	SOLOMON ISLANDS
SU	USSR
TO	TONGA
TV	TUVALU
TW	TAIWAN (Republic of China)
US	UNITED STATES OF AMERICA

Table A2. 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 indicus</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	Elasmobranchi
SKJ	SKIPJACK	<i>Katsuwonus pelamis</i>
SWO	BROADBILL SWORDFISH	<i>Xiphias gladius</i>
YFT	YELLOWFIN	<i>Thunnus albacares</i>

Table A3. Gear types

Gear Code	Gear Description
L	Longline
S	Purse seine
P	Pole-and-line

Table A4. Area stratification

Area Code	Area Stratification Description
X	Latitude/longitude coordinates to the nearest minute
1	One degree squares
5	Five degree squares
0	Ten degree squares
V	Grids other than one, five or ten degree squares
-	Not supplied

**Table A5. Time stratification**

Time Code	Time Stratification Description
D	Daily recordings
M	Monthly recordings
Q	Quarterly recordings
Y	Yearly recordings

**Table A6. Media of data storage**

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.

**Table A7. Units of catch and effort**

Code	Gear Type	Units of Catch	Units of Effort	Raised/ Unraised Data
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

Table A8. Sources of data

Source Code	Details
JB	<p>63, 65 - 66, 71 - 72, 74 - 80 Longline</p> <p>ANNUAL REPORT OF EFFORT AND CATCH STATISTICS BY AREA ON JAPANESE TUNA LONGLINE FISHERY</p> <p>Published by</p> <p>Research Department Fisheries Agency of Japan</p> <p>68 - 80 Pole-and-line</p> <p>ANNUAL REPORT OF EFFORT AND CATCH STATISTICS BY AREA ON JAPANESE SKIPJACK BAITBOAT FISHERY</p> <p>Published by</p> <p>Research Department Fisheries Agency of Japan</p>
KB	<p>75 - 80, 83 - 85, 88 Longline</p> <p>ANNUAL REPORT OF CATCH AND EFFORT STATISTICS AND FISHING GROUNDS ON KOREAN TUNA LONGLINE FISHERY</p> <p>Published by</p> <p>Fisheries Research and Development Agency Busan, Korea (Publication for 1979, published in December 1981)</p>
KICT	<p>KIRIBATI IN-COUNTRY TAGGING PROJECT CONDUCTED IN KIRIBATI WATERS IN MARCH - APRIL 1988 BY THE TBAP.</p>
RTTP	<p>REGIONAL TUNA TAGGING PROJECT CONDUCTED BY THE TBAP THROUGHOUT THE REGION FROM DECEMBER 1989 TO NOVEMBER 1991</p>
SICT	<p>SOLOMON ISLAND IN-COUNTRY TAGGING PROJECT CONDUCTED IN SOLOMON ISLAND WATERS. FIRST CRUISE IN JULY 1989, FOURTH CRUISE SCHEDULED FOR JUNE 1990.</p>
SSAP	<p>SOUTH PACIFIC COMMISSION SKIPJACK SURVEY AND ASSESSMENT PROGRAMME CONDUCTED THROUGHOUT THE REGION FROM 1977 TO 1981</p>
SR	<p>71 - 80 Pole-and-line</p> <p>SOLOMON ISLAND SKIPJACK DATA FROM POLE-AND-LINE VESSELS GIVEN BY MONTH FOR ENTIRE AREA Fisheries Division, Ministry of Natural Resources, Solomon Islands</p>
TB	<p>72 - 87 Longline</p> <p>ANNUAL CATCH STATISTICS OF TAIWAN'S TUNA LONGLINE FISHERY</p> <p>Published by</p> <p>Tuna Research Center c/o Institute of Oceanography National Taiwan University Taipei, Republic of China (Last publication for 1987, published in December 1988)</p>



Table A9. Country codes for sources of data

Code	Source of Data
AT	AMERICAN TUNABOAT ASSOCIATION
AU	AUSTRALIA
CK	COOK ISLANDS
FJ	FIJI
FM	FEDERATED STATES OF MICRONESIA
IA	INTER-AMERICAN TROPICAL TUNA COMMISSION (IATTC)
JB	JAPAN PUBLICATIONS - BOOK DATA
KB	KOREA PUBLICATIONS - BOOK DATA
KI	KIRIBATI
MI	MARSHALL ISLANDS
NC	NEW CALEDONIA (France)
NZ	NEW ZEALAND
PF	FRENCH POLYNESIA (France)
PG	PAPUA NEW GUINEA
PU	PALAU
SB	SOLOMON ISLANDS
SP	SOUTH PACIFIC COMMISSION
TB	TAIWAN PUBLICATIONS - BOOK DATA
TO	TONGA
TS	USA MULTILATERAL TREATY - Observer Programme
TT	USA MULTILATERAL TREATY
TV	TUVALU
US	UNITED STATES OF AMERICA
VU	VANUATU

Table A10. Country codes for geographic area

Source Code	Geographic Area
AS	AMERICAN SAMOA
AU	AUSTRALIA
CK	COOK ISLANDS
FJ	FIJI
FM	FEDERATED STATES OF MICRONESIA
GU	GUAM
HB	HOWLAND AND BAKER (United States)
HW	HAWAII
ID	INDONESIA
IT	INTERNATIONAL
JP	JAPAN
KI	KIRIBATI
KS	KOSRAE (Federated States of Micronesia)
LN	LINE ISLANDS (Kiribati)
MI	MARSHALL ISLANDS
MQ	MARQUESAS ISLANDS (France)
MR	NORTHERN MARIANA ISLANDS
MS	MARCUS
NC	NEW CALEDONIA (France)
NF	NORFOLK (Australia)
NK	NORTHERN COOK ISLANDS
NR	NAURU
NU	NIUE
NW	NEW SOUTH WALES (Australia)
NZ	NEW ZEALAND
PF	FRENCH POLYNESIA (France)
PG	PAPUA NEW GUINEA
PN	PITCAIRN (United Kingdom)
PP	PONAPE (Federated States of Micronesia)
PU	PALAU
PX	PHOENIX
PX	PHOENIX (Kiribati)
PY	PALMYRA (United States)
QL	QUEENSLAND (Australia)
SB	SOLOMON ISLANDS
SI	SOCIETY ISLANDS (France)
SZ	Subtropical Convergent Zone
TI	TUAMOTU ISLANDS (France)
TK	TRUK (Federated States of Micronesia)
TO	TONGA
TS	USA MULTILATERAL TREATY Area - Observer Programme
TT	USA MULTILATERAL TREATY Area
TU	TOKELAU (New Zealand)
TV	TUVALU
VU	VANUATU
WF	WALLIS AND FUTUNA
WK	WAKE (United States)
WS	WESTERN SAMOA
YP	YAP (Federated States of Micronesia)