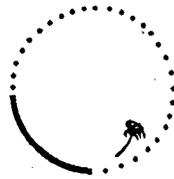
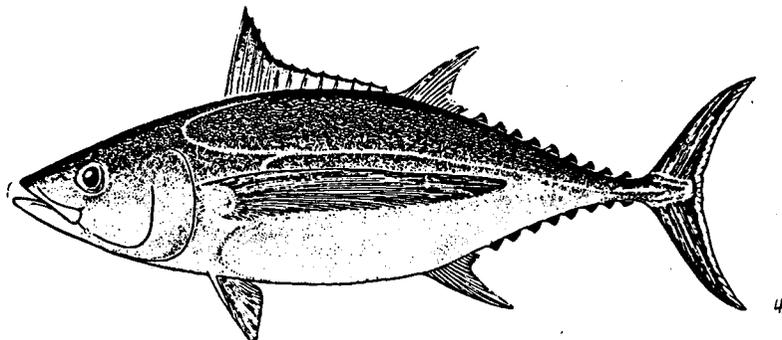


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AVAILABILITY OF SOUTH PACIFIC ALBACORE DATA.



**Third South Pacific Albacore Research Workshop
Working Paper No. 4**

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INTRODUCTION

At the Second South Pacific Albacore Research (SPAR) Workshop, held in Suva on 14-17 June 1989, the participants agreed to the offer made by SPC to act as a clearinghouse for the receipt and distribution of albacore data. Further, at the Second Consultation on Arrangements for South Pacific Albacore Fisheries Management, held on 2-7 March 1990 in Honiara, Solomon Islands, the meeting agreed that, as an interim arrangement prior to the establishment of the South Pacific Albacore Scientific Advisory Group, data will be provided to SPC by all fishing parties, and that SPC will compile all data and make it available for distribution.

Requests for data for the SPAR Database were sent to all countries concerned in October 1989. At present, catch and effort data have been provided by Australia, New Caledonia, and the United States. Published statistics are available for longliners of Korea and Taiwan up to 1987, and for Japanese longliners until 1980. Size frequency data have been provided by Fiji, French Polynesia and the United States.

AUSTRALIA

- Daily longline catch and effort logsheet data from the SPC Regional Tuna Fisheries Database have been aggregated by 5° square and month. Authorisation from Australian Fisheries Service is required prior to distribution.

FIJI

- Length frequencies sampled in Levuka from longliners and trollers have incomplete information on the location and period of fishing. The samples were taken during the first quarter of 1990.

FRENCH POLYNESIA

- Length frequencies sampled in Papeete from American trollers have incomplete information on the location and period of fishing. Authorisation from EVAAM is required prior to distribution.

JAPAN

- Unraised monthly data for 1962-1970 from the longline catch and effort data published by the Fisheries Agency of Japan have been raised from quarterly statistics. Data for 1971-1980 represent raised monthly statistics.

NEW CALEDONIA

- Daily longline catch and effort logsheet data from the SPC Regional Tuna Fisheries Database have been aggregated by 5° square and month. Authorisation from the Marine Marchande is required prior to distribution.

TAIWAN

- Annual unraised longline catch and effort data for 1961-1975, published by the Tuna Research Center, National Taiwan University, by 5° square, have been raised from TRC estimates of the annual catch. Data for 1976 are quarterly and unraised. Data for 1976-1985 are quarterly and raised. Data for 1986-1987 are monthly and raised.

UNITED STATES

- Catch and effort data covering the activities during 1987-1988 of Japanese, Korean and Taiwanese longliners based in Pago Pago, American Samoa, are by 10° square by month, and unraised.
- Length frequency data for Japanese, Korean and Taiwanese longliners based in Pago Pago are annual, with no breakdown by area fished.
- Catch and effort data for American trollers during the 1986/87 to 1989/90 seasons are by 5° square by month, and unraised.
- Length frequency data for trollers are by grids of 5° latitude and 10° latitude by month and unraised. The length frequency data primarily contain samples taken by NMFS in Pago Pago. These data may also include some samples taken by SPC observers from American and New Zealand trollers, as well as samples taken from American and New Zealand trollers landing in Levuka, Fiji.

Table 1. SPAR Catch and Effort Database

COUNTRY	VESSEL NATIONALITY	GEAR TYPE	TIME PERIOD	STATUS	COMMENTS
AUSTRALIA	AUSTRALIA	L	1985-1988	✓	Authorization for transfer from SPC/FFA Database received on Oct 20/89.
JAPAN	JAPAN	G	1983/84-1988/89	■	Requested of NRIFS on Oct 2/89.
JAPAN	JAPAN	L	1952-1961	■	
JAPAN	JAPAN	L	1962-1980	✓	Published by the Fisheries Agency of Japan.
JAPAN	JAPAN	L	1981-1988	■	Requested of NRIFS on Oct 2/89.
KOREA	KOREA	G	1988/89	■	Requested of FRDA on Mar 1/90. Only one vessel active.
KOREA	KOREA	L	1958-1974	■	Requested of FRDA on Mar 1/90.
KOREA	KOREA	L	1975-1980	✓	Published by the Fisheries Research and Development Agency.
KOREA	KOREA	L	1981-1982	■	Requested of FRDA on Oct 2/89.
KOREA	KOREA	L	1983-1985	✓	Published by the Fisheries Research and Development Agency.
KOREA	KOREA	L	1986-1988	■	Data for 1986-1987 to be published by FRDA in 1990.
NEW CALEDONIA	NEW CALEDONIA	L	1983-1989	✓	Authorization for transfer from SPC/FFA Database received on Oct 19/89.
NEW ZEALAND	NEW ZEALAND	T	1968-1988/89	■	Requested data for SPC/FFA Database on Oct 2/89. Acknowledged Nov 3/89. Catch data only for 1968-1985. Recent data being processed.
TONGA	TONGA	L	1982-1989	■	Request for transfer from SPC/FFA Database of Mar 1/90 acknowledged by fax on Mar 9/90.
TAIWAN	TAIWAN	G	1987/88	■	Data are unavailable at Tuna Research Center.
TAIWAN	TAIWAN	G	1988/89	■	Requested of TRC on Mar 1/90. Acknowledged Mar 29/90. Currently being processed.
TAIWAN	TAIWAN	L	1961-1987	✓	Published by the Tuna Research Center, National Taiwan University.
TAIWAN	TAIWAN	L	1988	■	Requested of TRC on Mar 1/90. Data currently being processed at TRC.
UNITED STATES	KOREA	L	1987-1988	✓	Data for Pago-based vessels aggregated by 10° square by month.
UNITED STATES	TAIWAN	L	1987-1988	✓	Data for Pago-based vessels aggregated by 10° square by month.
UNITED STATES	UNITED STATES	T	1986/87-1989/90	✓	Data distributed to SPAR group by NMFS.

KEY: L longline, G drift gillnet, T troller; ■ unavailable, ✓ available

Table 2. SPAR Size Frequency Database

COUNTRY	VESSEL NATIONALITY	GEAR TYPE	TIME PERIOD	STATUS	COMMENTS
AUSTRALIA	JAPAN	L	19??-1989	■	Requested of Bureau of Rural Resources on Nov 29/89.
FIJI	TAIWAN	L	1990	✓	Port sampling in Levuka.
FIJI	TONGA	L	1990	✓	Port sampling in Levuka.
FIJI	NEW ZEALAND	T	1989/90	✓	Port sampling in Levuka.
FIJI	UNITED STATES	T	1989/90	✓	Port sampling in Levuka.
FRENCH POLYNESIA	UNITED STATES	T	1986/87-1989/90	✓	Port sampling in Papeete. Area missing. Weights available. Number of fish injured available.
JAPAN	JAPAN	G	1988/89	■	JAMARC research vessel. NRIFSF to provide data to SPAR 3. JFA approved.
JAPAN	JAPAN	G	1989/90	■	JAMARC research vessel. NRIFSF to provide data to SPAR 3, pending JFA approval.
JAPAN	JAPAN	L	1952-1986	■	Requested of NRIFSF on Oct 2/89.
NEW CALEDONIA	NEW CALEDONIA	L	1983-1989	■	Request acknowledged Oct/89. Data being processed by Marine Marchande.
NEW ZEALAND	NEW ZEALAND	T	1972/73-1988/89	■	Request acknowledged on Nov 3/89.
SPC	JAPAN	G	1988/89	✓	Port sampling in Nouméa by SPC staff.
SPC	JAPAN	G	1989/90	✓	Sampled by SPC observers on JAMARC vessel.
SPC	NEW CALEDONIA	L	1990	✓	Port sampling in Nouméa by SPC staff.
SPC	NEW ZEALAND	T	1988/89-1989/90	✓	Sampled by SPC observers.
SPC	UNITED STATES	T	1988/89-1989/90	✓	Sampled by SPC observers.
TAIWAN	TAIWAN	G	1988/89-1989/90	■	Data requested of Tuna Research Center on Oct 2/89.
UNITED STATES	JAPAN	L	1962-1972, 1987	✓	Annual data. No area. Sex available.
UNITED STATES	KOREA	L	1962-1989	✓	Annual data. No area. Sex available.
UNITED STATES	TAIWAN	L	1964-1989	✓	Annual data. No area. Sex available.
UNITED STATES	UNITED STATES	T	1986/87-1989/90	✓	5° square by month.

KEY: L longline, G drift gillnet, T troller; ■ unavailable, ✓ available

Table 3. EVAAM length frequency samples of trollers landing in Papeete

DATE	VESSEL	N	DATE	VESSEL	N	DATE	VESSEL	N	DATE	VESSEL	N
29.01.87	JEANNIE	98	23.02.88	MOLLY-N	331	11.02.89	MARANATHA	138	08.02.90	MARANATHA	275
01.01.87	DAY STAR	156	24.02.88	HAL-G-DOT II	120	15.02.89	ESBJORN	182	09.03.90	KAREN KRISTIE	299
04.02.87	DEFIANCE	197	24.02.88	NICOLE MARIE	62	17.02.89	CLOVERLEAF	210	27.03.90	MARANATHA	300
06.02.87	BALD EAGLE	105	01.03.88	DAY STAR	246	17.02.89	ROYAL SPIRIT	258	31.03.90	QUICKSILVER	229
16.02.87	NATHALIE ROSE	59	07.03.88	FOUR C'S	20	06.03.89	PACIFIC WARWIND	324			
11.03.87	DEFIANCE	124	07.03.88	REDEEMER	30	09.03.89	JEANNIE	108			
11.03.87	JEANNIE	65	08.03.88	PURSUIT	96	09.03.89	REDEEMER	150			
13.03.87	DAY STAR	68	08.03.88	WARLORD	86	15.03.89	CIMARRON	162			
17.03.87	MADONNA	59	09.03.88	PACIFIC WARWIND	96	15.03.89	MISTY	156			
			09.03.88	VIVA	110	20.03.89	OLD GRANDAD	450			
			10.03.88	BERING SEA	129	21.03.89	ROYAL SPIRIT	300			
			18.03.88	LYDORIN	95	03.04.89	JEANNIE	71			
			21.03.88	BETTY-H	114	03.04.89	SEA HAVEN	450			
			21.03.88	OLD GRANDAD	77	04.04.89	KISMET	200			
			22.03.88	DEFIANCE	129	07.04.89	FOUR C'S	168			
			23.03.88	VICTORIA CITY	96	07.04.89	NATHALIE ROSE	253			
			24.03.88	CROSSWIND	97	07.04.89	VIVA	186			
			24.03.88	QUICKSILVER	129	12.04.89	MARANATHA	307			
			07.04.88	MOLLY-N	129	17.04.89	ESBJORN	270			
			07.04.88	WARLORD	86	17.04.89	TWO CAPTAINS	150			
			08.04.88	ROYAL DOWN	129						
			11.04.88	FOUR C'S	129						
			14.04.88	MADONNA	129						
			14.04.88	REDEEMER	107						
			19.04.88	VIVA	129						
			20.04.88	JEANNIE	97						
			22.04.88	CIMARRON	63						
			22.04.88	NORPAC	86						

Table 4. Length frequency samples taken by SPC observers

PERIOD	VESSEL	FLAG	GEAR	N	RAISED
12/88-02/89	DANIEL SOLANDER	NZ	T	7,440	7,440
01/89	SOLANDER II	NZ	T	448	448
03/89-04/89	BARBARA H	US	T	267	267
11/89-03/90	DANIEL SOLANDER	NZ	T	27,500	27,602
11/89-12/89	KARIQA	NZ	T	781	781
11/89-12/89	SHINHOYO	JP	G	5,364	8,281
01/90-03/90	SAN TE MARU 18	NZ	T	13,274	17,123
02/90	SHINHOYO	JP	G	1,462	6,907
03/90	ATU	NZ	T	2,873	5,178
03/90	DAY STAR	US	T	436	1,703
03/90-04/90	KARIQA	NZ	T	4,830	4,891
03/90-04/90	MATA WHAO RUE	NZ	T	6,089	6,958

KEY: JP Japan, NZ New Zealand, US United States; T troller, G drift gillnet

Table 5. Length frequency samples from vessels landing in Levuka during the first half of 1990

VESSEL	FLAG	GEAR	TRIP		FISHING		SAMPLE SIZE
			START	END	START	END	
CHYI FONG	TW	L	.	.	.	.	6
FONG KUO 111	TW	L	.	.	.	.	26
FONG SHEN YIH	TW	L	.	.	.	.	61
FUNG FA 1	TW	L	.	.	.	.	31
HAI SHIN	TW	L	05.10.89	.	.	24.02.90	34
HAURCHUEN 1	TW	L	.	.	.	.	76
JIA YEQ 6	TW	L	05.09.89	02.01.90	08.09.89	31.12.89	20
JIN DING	TW	L	07.10.89	26.01.90	.	.	100
LIH FA	TW	L	09.12.89	12.02.90	.	.	41
LIH PENG	TW	L	.	.	.	.	13
LONG DAR 21	TW	L	01.10.89	01.01.90	.	.	16
SHENG JYI 7	TW	L	.	.	.	.	91
SHENG WANG 7	TW	L	.	.	.	.	39
SHENG YUH 6	TW	L	28.09.89	06.01.90	.	.	50
SHIN KING YANG 3	TW	L	.	.	.	.	16
TUNG FA 1	TW	L	.	.	.	.	25
ALOFA	TO	L	.	.	.	.	30
ATU	NZ	T	.	06.02.90	.	.	50
KARIQA	NZ	T	29.12.89	08.02.90	31.12.89	29.01.90	90
KARIQA	NZ	T	.	.	.	.	20
OHAU	NZ	T	.	01.02.90	.	.	73
OHAU	NZ	T	04.02.90	01.04.90	15.02.90	22.03.90	22
TYLO	US	T	.	31.01.90	.	.	24
TYLO	US	T	06.02.90	03.04.90	16.02.90	20.03.90	15

KEY: NZ New Zealand, TO Tonga, TW Taiwan, US United States; L Longliner, T troller