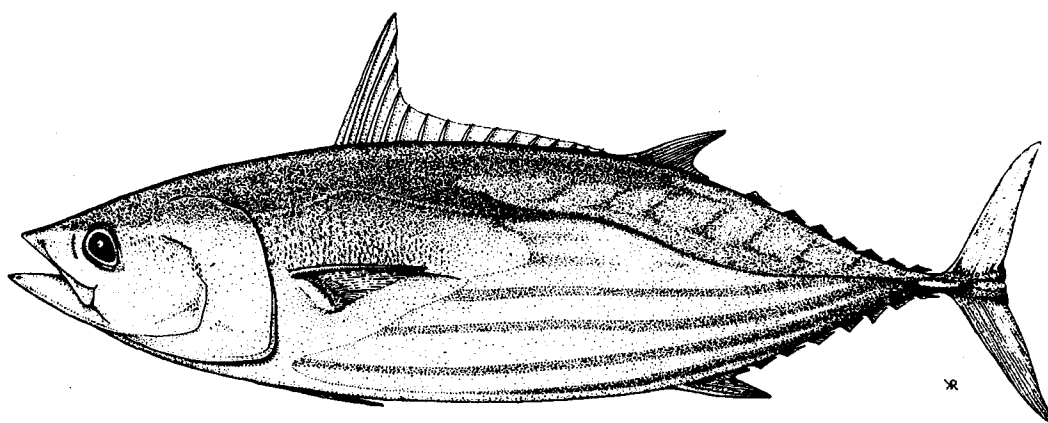


**STANDING COMMITTEE ON TUNA AND BILLFISH**

5-8 August 1994  
Koror  
Republic of Palau

**WORKING PAPER 4**

**STATUS OF THE STANDING COMMITTEE DATABASE**



Oceanic Fisheries Programme  
South Pacific Commission  
Noumea, New Caledonia

July 1994

## INTRODUCTION

At the second meeting of the Standing Committee on Tuna and Billfish (SCTB 2) held in Suva from 19 to 21 June 1989, the Committee considered the problem of inadequate statistical coverage of the fishing activities of distant-water fishing nations (DWFNs) in the region, including Indonesia, Korea, Japan, Philippines, Taiwan and the former Soviet Union. The Standing Committee is an advisory sub-committee of the Regional Technical Meeting on Fisheries and includes scientists from SPC member countries and from several DWFNs which fish for tuna in the South Pacific. At SCTB 2 there were representatives of Indonesia, Japan, Philippines and Taiwan, as well as several SPC member countries in attendance. It was concluded that

- (1) "SPC had succeeded in gathering most of the daily catch and effort logsheet data available through SPC member countries" for the Regional Tuna Fisheries Database (RTFD), but
- (2) "these data from local fleets, or collected under access agreements, still did not adequately cover the activities by DWFNs in the region".

SCTB 2 therefore discussed the establishment of a common database consisting of aggregated data provided by all fishing nations (including DWFNs), which would be separate from the data currently assembled by SPC in the Regional Tuna Fisheries Database (which are contributed only by SPC member countries). The tuna fishing nations which have operated in the region include: Australia, Peoples Republic of China, Federated States of Micronesia, French Polynesia, Fiji, Indonesia, Japan, Kiribati, Korea, Marshall Islands, Mexico, New Caledonia, New Zealand, Palau, Papua New Guinea, Philippines, Solomon Islands, Soviet Union, Taiwan, Tonga, Tuvalu and the United States.

After much discussion, the following points represented the consensus:

- (1) "The establishment of a common database would be extremely useful and would solve current problems of inadequate coverage of the tuna fisheries in the region;
- (2) "Data should be provided at a level of aggregation consistent with levels of aggregation used by other tuna research organizations, i.e. by five-degree square and month for longliners and gillnetters and by one-degree square and month for other gear types;
- (3) "Data held in the common database should be made available to all countries that provide data to the common database, subject to the minimum level of aggregation (i.e., five-degree square and month for longliners and gillnetters and one-degree square and month for other gear types)".

SCTB 2 recommended that "SPC work towards the implementation of a common regional tuna database, holding data aggregated to an acceptable level, which would be available to all contributing partners via a defined distribution network." Representatives at the Twenty-First Regional Technical Meeting on Fisheries, held in Noumea from 7 to 11 August 1989, recognized that "the proposed common regional scientific tuna database will considerably improve scientific studies and assessments of regional tuna fisheries" and strongly recommended that it be implemented as soon as possible.

The Standing Committee database was implemented prior to the third meeting of the Standing Committee, held from 6 to 8 June 1990 in Noumea. At present, data have been provided for the Standing Committee database by Australia, Federated States of Micronesia, Fiji, French Polynesia, Japan, Kiribati, Marshall Islands, New Caledonia, New Zealand, Papua New Guinea, Peoples Republic of China, Philippines, the Republic of China (Taiwan), the Republic of Korea, Solomon Islands, Tonga, Tuvalu and the United States of America.

## COMPONENTS OF THE STANDING COMMITTEE DATABASE

### AUSTRALIA

#### Longline

Domestic Australian vessels, including wholly Australian-owned ex-Japanese vessels (*D-Three, Elida, Sharon I, Sharon II* and *Rita*) and excluding Japanese joint-venture and Taiwanese charter vessels. SCTB data are aggregated from daily logsheet data provided to the RTFD by the Australian Fisheries Management Authority (AFMA). Coverage has been estimated at 50 per cent for 1987—1988, 70 per cent for 1989, 85—90 per cent for 1990—1991, and 85 per cent for 1992.

#### Pole-and-line

SCTB data are aggregated from daily logsheet data provided to the RTFD by AFMA. Coverage has been estimated at 30—35 per cent in 1990, 20—25 per cent in 1991, and 55 per cent in 1992.

#### Purse seine

SCTB data are aggregated from daily logsheet data covering activities inside the Australian Fishing Zone (AFZ), provided to the RTFD by AFMA. Coverage has been estimated at 80—90 per cent in 1990, 30—35 per cent in 1991, and 90 per cent in 1992.

AFMA currently does not collect data covering Australian purse seiners that have operated outside the AFZ (i.e. Federated States of Micronesia, Papua New Guinea and Solomon Islands). However, much of these data are available through the SPC member countries which have implemented access agreements with Australian vessels. It should be noted this does not include the Australian joint-venture vessels operating under the Caroline Fishing Corporation in FSM.

### CHINA

#### Longline

Catch and effort data for small Chinese longliners based in Palau (since 1988), in the Federated States of Micronesia (since 1992) and the Marshall Islands (since 1993) are available in the RTFD. During 1993, 319 vessels were covered compared with 72 vessels in 1992.

## FEDERATED STATES OF MICRONESIA

### Longline

Federated States of Micronesian (FSM) registered vessels. During 1993, seven vessels were covered. SCTB data are aggregated from daily logsheet data provided to the RTFD by the Micronesian Maritime Authority.

### Purse seine

FSM-registered vessels (*Gapilmogol*, *Mathawmal*, *Mathawolwol* and *Mathawsuw*), includes Australian joint-venture vessels (*Eastern Pacific*, *Queen Mary* and *Trinidad III*) operating under the Caroline Fishing Company. SCTB data are aggregated from daily logsheet data provided to the RTFD by the Micronesian Maritime Authority. Coverage for 1993 is high.

## FIJI

### Longline

Fijian-registered sashimi vessels, i.e. excludes chartered Taiwanese and Korean cannery vessels which are considered separately. Coverage for 1988—1990 is low; coverage for 1991—1993 is high.

### Pole-and-line

Fijian-registered and Japanese and New Zealand charter vessels. Excludes Kiribati and Tuvalu charter vessels, which are covered separately. SCTB data are aggregated from daily logsheet data provided to the RTFD by the Fisheries Division. Coverage is roughly 50 per cent.

## FRENCH POLYNESIA

### Longline

Small longliners (*palangriers côtiers*) have been active since 1970 taking small catches, however data prior to 1991 are nonexistent. Two multi-purpose, France-built, 25 metre vessels (*palangriers hauturiers*), *Arevananu* and *Tahiti Nui*, have been active since 1991; a third vessel began operations in 1992. SCTB data are aggregated from daily logsheet data covering the *palangriers hauturiers* and several *palangriers côtiers* provided to the RTFD by *Établissement pour la Valorisation des Activités Aquacoles et Maritimes* (EVAAM). Forty-nine vessels were active during 1993, however, no data are currently available.

### Pole-and-line

Data for the *bonitier* fleet have been compiled by ORSTOM since 1975. These data will be requested for the RTFD and the Standing Committee database.

## INDONESIA

### Gillnet

Originally developed in Pelabuhan Ratu (West Java), now in Muncar (East Java). Target species is skipjack. Fleet increased from 621 vessels (3 to 6 GRT with 40 hp outboards) in 1988 to 909 in 1989. Monthly catch and effort data exist from 1989. Data processing currently underway by Research Institute for Marine Fisheries (RIMF). RIMF has indicated these data will be made available eventually, pending completion of data processing.

### Handline

Vessels using fish aggregating devices (FADs) in Irian Jaya, Maluku, Sulawesi and Nusa Tenggara. Monthly catch and effort data exist from 1987. Data processing currently underway by Research Institute for Marine Fisheries (RIMF). RIMF has indicated these data will be made available eventually, pending completion of data processing.

### Longline

First trials back in 1950. State enterprise established in Bali in 1972, with 3 vessels, increasing to 20 vessels in 1981. Increased to 167 vessels in 1989. Fresh chilled sashimi exported to Japan. Monthly catch and effort data exist from 1976. Data processing currently underway by Research Institute for Marine Fisheries (RIMF). RIMF has indicated these data will be made available eventually, pending completion of data processing.

### Pole-and-line

Vessels in Irian Jaya, Maluku, Sulawesi and Nusa Tenggara, using fish aggregating devices (FADs). The sector includes state fishing companies, private companies, joint-ventures and artisanal fleets. State enterprises established in Ambon in 1961, Sorong in 1973 and Bitung. Vessels range from 30 to 300 GRT. Monthly catch and effort data exist from 1967. Data processing currently underway by Research Institute for Marine Fisheries (RIMF). RIMF has indicated these data will be made available eventually, pending completion of data processing.

### Purse seine

Existence of catch and effort data for artisanal purse seiners/ring netters is unknown, but probably small. Industrial purse seiners are based in Biak (PT Multi-Transpêche Indonesia). Data covering industrial purse seiners operating in Federated States of Micronesia and Papua New Guinea available from RTFD.

## JAPAN

### Driftnet

Albacore catch data for 1988/89—1989/90 were provided to SPC in October 1990. Existence of catch and effort data by time-area strata for 1983/83—1987/88 is unknown, though estimates of annual catches are available. No fishing occurred following the 1989/90 season.

### Longline

Existence of data for 1952—1961 or earlier is unknown. Data for 1962—1980 are available in statistical bulletins published by the Japan Fisheries Agency (JFA). Data covering 1981—1990 were provided to SPC by JFA in December 1992. Data covering 1991 were provided to SPC by JFA in February 1994 and data covering 1992 were provided in April 1994.

### Pole-and-line

Existence of data for 1952—1968 or earlier is unknown. Data for 1969—1980 are available in statistical bulletins published by the Japan Fisheries Agency (JFA). Data covering 1981—1990 were provided to SPC by JFA in December 1992. Data covering 1991-1992 were provided to SPC by JFA in April 1994.

### Purse seine

Data covering 1967—1991 were provided to SPC by JFA in December 1992. Data covering 1992 were provided to SPC by JFA in April 1994.

## KIRIBATI

### Pole-and-line

Data for 1981—1985 are nonexistent. SCTB data for 1986—1990 are aggregated from daily logsheet data provided to the RTFD by Te Mautari Ltd. These data are complete. Data for 1991-1993 have recently been provided by Te Mautari Ltd.

## KOREA

### Longline

Existence of data for 1954—1974 and 1981—1982 is unknown. Data for 1975—1980 and 1983—1987 have been published by the National Fisheries Research and Development Agency (NFRDA). Provision of data for 1988—1993 is under discussion.

### Purse seine

Provision of data by NFRDA is under discussion.

## MARSHALL ISLANDS

## Longline

Two Japanese charter vessels, *Kiokichi* and *Kaisei* operated during 1989—1990. Vessels registered in the Marshall Islands in 1991 include *Captain Peter*, *Flying Cloud*, *Pan Am II* and *Yu Chuan*. Additional vessels operating under a joint-venture between MMAGG and the Marshall Islands Development Agency (MIDA) began fishing in 1992. SCTB data are aggregated from daily logsheet data provided to the RTFD. Coverage of the daily logsheet data is poor. Several small Taiwanese longliners operated out of Majuro during 1990—1992; these vessels are considered under *Taiwan Longline* below.

## Purse seine

Two purse seiners have operated under the multilateral treaty with the United States. See *United States purse seine* below.

## NEW CALEDONIA

## Longline

SCTB data are aggregated from daily logsheet data provided to the RTFD by the *Service Territorial de la Marine Marchande et des Pêches Maritimes*. Coverage is variable.

## Pole-and-line

Fleet operated during 1981—1983. SCTB data are aggregated from daily logsheet data provided to the RTFD by the *Service Territorial de la Marine Marchande et des Pêches Maritimes*. Coverage is complete.

## NEW ZEALAND

## Longline

Catches by these vessels within the SPC area consists primarily of bigeye with some albacore and yellowfin. The same vessels target southern bluefin outside the SPC area. Data for 1992 and 1993 are forthcoming from the Ministry of Agriculture and Fisheries (MAF).

## Purse seine

SCTB data are aggregated from RTFD data provided by MAF covering New Zealand registered vessels only; i.e., excluding chartered American vessels, which are considered separately. Coverage for 1975—1988 is high. Data for 1989—1993 are forthcoming from MAF.

## Troll

Data for 1968/69—1981/82 are nonexistent. SCTB data for 1982/83—1990/91 are aggregated from RTFD data provided by MAF. Data for 1991/92 and 1992/93 are forthcoming from MAF.

## PALAU

### Pole-and-line

Japanese vessels chartered by Van Camp during 1964—1982. SCTB data are aggregated from RTFD data. Coverage is high. A single vessel has operated since 1985; while annual catch estimates have been provided to SPC, detailed catch and effort data are nonexistent.

## PAPUA NEW GUINEA

### Pole-and-line

Japanese joint-ventures operating during 1970—1981 and 1984—1985. SCTB data are aggregated from the RTFD data. Coverage for 1970—1981 is complete; coverage for 1984—1985 is low.

## PHILIPPINES

### Various

Sampling of commercial fisheries at Navotas was introduced in 1965. Municipal fisheries have been sampled since 1976. While monthly statistics are currently unavailable, statistical bulletins published by the Bureau of Fisheries and Aquatic Resources (BFAR), *Fisheries statistics of the Philippines*, containing annual catches by fishing area for 1980—1987, have been provided to SPC. Statistical bulletins are not available for 1988—1991. Annual statistics for the country as a whole have been provided for 1970—1992.

### Purse seine

These vessels include large vessels operated by Frabelle Fishing Corp. and Mar Fishing Company, Inc., in the SPC area (i.e. they exclude small domestic purse seiners and ring net vessels, which are covered under *Various* above). Detailed catch and effort data for these vessels are not collected by the Philippines government. Data covering activities in EEZs are available through SPC member countries (Federated States of Micronesia, Fiji, Marshall Islands, Papua New Guinea, Solomon Islands) under access agreements, though coverage of the high seas and Philippines waters by these data is negligible.



## SOLOMON ISLANDS

## Longline

Fleet was active during 1981—1985. SCTB data are aggregated from RTFD data provided by the Fisheries Division.

## Pole-and-line

SCTB data are aggregated from RTFD data provided by the Fisheries Division. Coverage is complete.

## Purse seine

SCTB data are aggregated from RTFD data provided by the Fisheries Division. Coverage is complete.

## SOVIET UNION

## Purse seine

Provision of data for 1985—1993 by the Pacific Research Institute of Fisheries and Oceanography (TINRO) is under discussion.

## TAIWAN

## Driftnet

Data for 1987/88 are nonexistent. Data for 1988/89 were provided by National Taiwan University (NTU).

## Longline

Data covering distant-water vessels for 1954—1966 are nonexistent. Data for 1967—1985 are from statistics published by NTU. Data for 1986—1992 are from data provided on diskette by NTU. Provision of data for 1993 is pending data processing by NTU.

The existence of data covering small longliners based in Taiwan is unknown. Data for small longliners unloading in Taiwan may be eventually be made available through the Taiwanese provincial government, with assistance from NTU. Only limited catch and effort data for small Taiwanese longliners based in the Federated States of Micronesia, Guam, Marshall Islands and Palau since 1987 are available in the RTFD, although coverage improved in 1992 and 1993.

## Purse seine

Prior to 1993, moderate coverage of fishing effort is available through the RTFD, however catches generally under-reported. There was noticeable improvement in reporting during 1993. NTU commenced a purse seine data processing project in 1991, which may result in more complete and accurate catch and effort data.

## TONGA

### Longline

A single vessel, the *Lofa*. Data for the six other longline vessels active in Tonga during 1993 are not currently available.

SCTB data are aggregated from daily logsheet data provided to the RTFD by the Ministry of Fisheries. Coverage is variable.

## TUVALU

### Pole-and-line

A single vessel, the *Te Tautai*. Data for activities in Fijian waters during 1982—1984 and in Solomon Islands waters during 1986—1988 are available in the RTFD. During 1990—1992, the vessel was on charter to SPC for the Regional Tuna Tagging Project (RTTP). Data for all other activities are nonexistent.

## UNITED STATES

### Longline

Data for American longline vessels operating out of Marshall Islands during 1992-1993. Coverage is poor.

### Purse seine

Data for exploratory fishing during 1976—1980 are available through reports of the Pacific Fisheries Development Foundation (PFDF, formerly the Pacific Tuna Development Foundation). Data for 1981—1988 were provided by the American Tunaboat Association (ATA). SCTB data for 1989—1993 are aggregated from RTFD data provided by the Forum Fisheries Agency.

### Troll

SCTB data were provided by the National Marine Fisheries Service. Data for 1992/93 season forthcoming.

## SUMMARY

Data for coastal states and territories are generally complete. Missing data are either nonexistent (early Kiribati pole-and-line, early New Zealand troll, some Tuvalu pole-and-line), pending data processing (French Polynesia, New Zealand) or pending submission of daily logsheets to SPC (Tonga). While in most cases coverage is complete, in some cases coverage is low or unknown (early Australian longline, Australian pole-and-line, Fijian longline and pole-and-line, New Caledonian longline).

The status of data for distant-water fleets is variable. Korean longline data are available up to 1987, while purse seine data and recent longline data have not yet been contributed. The provision of Korean purse seine data and recent longline data has been requested repeatedly from the National Fisheries Research and Development Agency.

Taiwanese longline data are current to 1992, while compilation and processing of purse seine data by National Taiwan University has continued to progress. NTU has indicated that the purse seine data may eventually be contributed, when data compilation and processing has been sufficiently advanced.

Japanese longline, pole-and-line and purse seine data are current to 1992, while data for 1993 are pending data processing by the Fisheries Agency of Japan.

Data for American purse seiners active in the region during 1986-1988 have been recently provided by the American Tunaboat Association (ATA). Data for the period 1981-1985 had been previously provided by ATA.

**Table 1. Standing Committee Database**

| VESSEL NATIONALITY | GEAR TYPE     | TIME PERIOD     | STATUS | COMMENTS   |
|--------------------|---------------|-----------------|--------|--|
| AUSTRALIA          | LONGLINE      | 1985-1993       | ✓      | Transferred from RTFD.   |
| AUSTRALIA          | POLE-AND-LINE | 1975-1993       | ✓      | Transferred from RTFD.   |
| AUSTRALIA          | PURSE SEINE   | 1976-1993       | ✓      | Transferred from RTFD.   |
| CHINA              | LONGLINE      | 1988-1993       | ✓      | Transferred from RTFD.   |
| FSM                | LONGLINE      | 1991-1993       | ✓      | Transferred from RTFD.   |
| FSM                | PURSE SEINE   | 1991-1993       | ✓      | Transferred from RTFD.   |
| FIJI               | LONGLINE      | 1989-1993       | ✓      | Transferred from RTFD.   |
| FIJI               | POLE-AND-LINE | 1976-1993       | ✓      | Transferred from RTFD.   |
| FRENCH POLYNESIA   | LONGLINE      | 1992            | ✓      | Transferred from RTFD. Deep-sea longliners.  |
|                    | LONGLINE      | 1993            | x      | Data requested of EVAAM.   |
|                    | POLE-AND-LINE | 1975-1993       | x      | Data requested of EVAAM.   |
|                    | TROLL         | 1988/89-1992/93 | x      | Data requested of EVAAM.   |
| INDONESIA          | DRIFTNET      | 1981-1993       | x      | Monthly catch and effort available from 1981; 909 vessels in Pelabuhan Ratu, in 1989.  |
| INDONESIA          | HANDLINE      | 1987-1993       | x      | Monthly catch and effort available from 1987.  |
| INDONESIA          | LONGLINE      | 1972-1993       | x      | Monthly catch and effort available from 1976; 22 vessels in Bali in 1972, 167 in 1989. |
| INDONESIA          | POLE-AND-LINE | 1967-1993       | x      | Monthly catch and effort available from 1967.  |
| INDONESIA          | PURSE SEINE   | 1986-1993       | x      | Industrial purse-seiners operating in Indonesia and, until 1990, PNG.                  |
| JAPAN              | DRIFTNET      | 1983/84-1987/88 | x      | Requested of Fisheries Agency of Japan. Existence of data is unknown.                  |
| JAPAN              | DRIFTNET      | 1988/89-1989/90 | ✓      | Provided by Fisheries Agency of Japan.   |
| JAPAN              | LONGLINE      | 1952-1961       | x      | Requested of Fisheries Agency of Japan. Existence of data is unknown.                  |
| JAPAN              | LONGLINE      | 1962-1980       | ✓      | Statistical bulletins published by Fisheries Agency of Japan.                          |
| JAPAN              | LONGLINE      | 1981-1992       | ✓      | Provided by Fisheries Agency of Japan.   |
| JAPAN              | LONGLINE      | 1993            | x      | Data are forthcoming.  |
| JAPAN              | POLE-AND-LINE | 1952-1968       | x      | Requested of Fisheries Agency of Japan. Existence of data is unknown.                  |
| JAPAN              | POLE-AND-LINE | 1969-1980       | ✓      | Statistical bulletins published by Fisheries Agency of Japan.                          |
| JAPAN              | POLE-AND-LINE | 1981-1992       | ✓      | Provided by Fisheries Agency of Japan.   |
| JAPAN              | POLE-AND-LINE | 1993            | x      | Data are forthcoming.  |
| JAPAN              | PURSE SEINE   | 1967-1992       | ✓      | Provided by Fisheries Agency of Japan.   |
| JAPAN              | PURSE SEINE   | 1993            | x      | Data are forthcoming.  |
| KIRIBATI           | POLE-AND-LINE | 1981-1985       | x      | Catch and effort data are nonexistent.   |
| KIRIBATI           | POLE-AND-LINE | 1986-1990       | ✓      | Transferred from RTFD.   |
| KIRIBATI           | POLE-AND-LINE | 1991-1993       | ✓      | Transferred from RTFD.   |
| KOREA              | LONGLINE      | 1954-1974       | x      | Requested of Korean NFRDA. Existence of data is unknown.                               |
| KOREA              | LONGLINE      | 1975-1980       | ✓      | Statistical bulletins published by NFRDA.  |
| KOREA              | LONGLINE      | 1981-1982       | x      | Requested of NFRDA. Existence of data is unknown.                                      |
| KOREA              | LONGLINE      | 1983-1987       | ✓      | Statistical bulletins published by NFRDA.  |
| KOREA              | LONGLINE      | 1988-1993       | x      | Data requested of NFRDA.   |
| KOREA              | PURSE SEINE   | 1980-1993       | x      | Data requested of NFRDA.   |

Table 1 (continued)

| VESSEL NATIONALITY | GEAR TYPE     | TIME PERIOD     | STATUS | COMMENTS  |
|--------------------|---------------|-----------------|--------|---|
| MARSHALL ISLANDS   | LONGLINE      | 1989-1993       | ✓      | Transferred from RTFD.  |
| MARSHALL ISLANDS   | PURSE SEINE   | 1988-1993       | ✓      | Two vessels under US multilateral treaty. See United States purse seine.          |
| NEW CALEDONIA      | LONGLINE      | 1983-1993       | ✓      | Transferred from RTFD.  |
| NEW CALEDONIA      | POLE-AND-LINE | 1981-1983       | ✓      | Transferred from RTFD.  |
| NEW ZEALAND        | LONGLINE      | 1989-1991       | ✓      | Transferred from RTFD.  |
| NEW ZEALAND        | LONGLINE      | 1992-1993       | x      | Data are forthcoming.   |
| NEW ZEALAND        | PURSE SEINE   | 1975-1988       | ✓      | Transferred from RTFD.  |
| NEW ZEALAND        | PURSE SEINE   | 1989-1993       | x      | Data are forthcoming.   |
| NEW ZEALAND        | TROLL         | 1968/69-1981/82 | x      | Data are nonexistent.   |
| NEW ZEALAND        | TROLL         | 1982/83-1990/91 | ✓      | Transferred from SPAR database.   |
| NEW ZEALAND        | TROLL         | 1991/92-1992/93 | x      | Data are forthcoming.   |
| PALAU              | POLE-AND-LINE | 1964-1982       | ✓      | Transferred from RTFD.  |
| PALAU              | POLE-AND-LINE | 1985-1993       | x      | Data covering the single pole-and-line vessel are nonexistent.                    |
| PAPUA NEW GUINEA   | POLE-AND-LINE | 1970-1981       | ✓      | Transferred from RTFD. Japanese joint-venture vessels.                            |
| PAPUA NEW GUINEA   | POLE-AND-LINE | 1984-1985       | ✓      | Transferred from RTFD. Japanese joint-venture vessels, inactive during 1982-1983. |
| PHILIPPINES        | VARIOUS       | 1964-1992       | x      | Monthly data are unavailable; annual data available for 1980-1987 and 1991.       |
| PHILIPPINES        | PURSE SEINE   | 1982-1993       | ✓      | Transferred from RTFD.  |
| SOLOMON ISLANDS    | LONGLINE      | 1981-1985       | ✓      | Transferred from RTFD.  |
| SOLOMON ISLANDS    | POLE-AND-LINE | 1981-1993       | ✓      | Transferred from RTFD.  |
| SOLOMON ISLANDS    | PURSE SEINE   | 1985-1993       | ✓      | Transferred from RTFD.  |
| SOVIET UNION       | PURSE SEINE   | 1985-1993       | x      | Provision of data by TINRO is under discussion.                                   |
| TAIWAN             | DRIFTNET      | 1987/88         | x      | Data are nonexistent.   |
| TAIWAN             | DRIFTNET      | 1988/89         | ✓      | Provided by National Taiwan University.   |
| TAIWAN             | DRIFTNET      | 1989/90-1990/91 | x      | Provision of data pending data processing by NTU.                                 |
| TAIWAN             | LONGLINE      | 1954-1966       | x      | Data are nonexistent.   |
| TAIWAN             | LONGLINE      | 1967-1985       | ✓      | Published by NTU.   |
| TAIWAN             | LONGLINE      | 1986-1992       | ✓      | Unpublished data provided by NTU.   |
| TAIWAN             | LONGLINE      | 1993            | x      | Provision of data pending data processing by NTU.                                 |
| TAIWAN             | PURSE SEINE   | 1983-1993       | x      | NTU started compilation in 1991; these data may be forthcoming.                   |
| TONGA              | LONGLINE      | 1982-1993       | ✓      | Transferred from RTFD; provision of complete 1993 data outstanding.               |
| TUVALU             | POLE-AND-LINE | 1982-1984       | ✓      | Transferred from RTFD data provided by Fiji.                                      |
| TUVALU             | POLE-AND-LINE | 1985            | x      | Data are nonexistent.   |
| TUVALU             | POLE-AND-LINE | 1986-1988       | ✓      | Transferred from RTFD data provided by Solomon Islands.                           |
| TUVALU             | POLE-AND-LINE | 1989            | x      | Data are nonexistent.   |
| TUVALU             | POLE-AND-LINE | 1990-1992       | ✓      | Data available through the Regional Tuna Tagging Project.                         |

**Table 1 (continued)**

| VESSEL NATIONALITY | GEAR TYPE   | TIME PERIOD     | STATUS | COMMENTS   |
|--------------------|-------------|-----------------|--------|--|
| UNITED STATES      | LONGLINE    | 1992-1993       | ✓      | Data available from activities in Marshall Islands; transferred from RTFD. |
| UNITED STATES      | PURSE SEINE | 1976-1980       | ✓      | PFDF reports of exploratory fishing.                                       |
| UNITED STATES      | PURSE SEINE | 1981-1987       | ✓      | Partial coverage provided by the American Tunaboat Association.            |
| UNITED STATES      | PURSE SEINE | 1988-1993       | ✓      | Transferred from RTFD.   |
| UNITED STATES      | TROLL       | 1986/87-1991/92 | ✓      | Provided to SPAR database by NMFS.   |
| UNITED STATES      | TROLL       | 1992/93         | x      | Data are forthcoming.  |