### RECENT CATCH, EFFORT AND CATCH COMPOSITION DATA COLLECTION PRACTICES IN AUSTRALIAN TUNA AND BILLFISH FISHERIES.

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The purpose of this paper is to bring up to date the descriptions of Australian logbook data collection arrangements provided by Majkowski (1982), Majkowski and Morris (1986) and Caton (1991). In particular, copies of the logbook data forms are appended for reference.

# Commercial tuna fishing operations within the Australian Fishing Zone

Recreational game angling and small-scale commercial trolling preceded for many years a 1950s expansion of more intensive domestic commercial operations. The first development was a domestic pole-and-line live bait fishery off southern New South Wales. It targeted southern bluefin tuna (Thunnus maccoyii) but also included a bycatch of skipjack tuna (Katsuwonus pelamis) and, to a lesser extent, yellowfin tuna (T. albacares) and albacore (T. alalunga). The poling operations spread to South Australia during the mid-1950s then to Western Australia by the late 1960s. The southern bluefin tuna pole and purse seine fisheries have contracted in area since the 1970s and are now confined to South Australia. Much of the catch is held live in rearing cages to improve condition, size and market value. Occasionally during the 1980s, and more intensively in the 1990s, there have been purse seine and live-bait-and-pole operations for skipjack tuna off southern New South Wales, northeastern Tasmania and South Australia. Recreational and game angling interest, predominantly in yellowfin tuna and billfish, has grown steadily with the increased use of outboard-powered recreational vessels.

The foreign (mainly Japanese) longline fishery of the North Pacific expanded during the 1950s into the Coral and Tasman Seas off eastern Australia and the eastern Indian Ocean along the Australian northwestern and western coast. The target of the longliners were the larger pelagics - yellowfin, southern bluefin tuna, albacore, bigeye, broadbill swordfish (Xiphias gladius), striped marlin (Tetrapturus audax), black marlin (Makaira indica) and blue marlin (M. mazara). A range of incidental species was also taken, especially pelagic sharks but including others such as dolphin fish (Coryphaena hippurus). The foreign longline operations eventually spread around much of the eastern, southern and western waters encompassed by the Australian Fishing Zone (AFZ) when it entered into force in 1979. Bilateral arrangements with Japan enabled continued access to some of these waters by licensed Japanese longliners, but these activities were progressively reduced with the expansion of domestic surface fishery and longline operations. An arrangement between the Australian and Japanese tuna industries established joint-venture operations by Japanese longliners from 1989, but the agreement lapsed in 1995, and by late 1997 bilateral-licensed longliners also ceased operations in the AFZ.

The small-vessel (10–25 m) domestic longline fishery for yellowfin tuna developed off the central and south coast of New South Wales in the mid 1980s with the successful

establishment of airfreight outlets to the Japanese fresh sashimi market. Prior experimental longlining had produced good catch rates, but the catch was sent to cannery outlets and operations were not viable at the prices paid for fish for canning. The 1980s fishery spread initially between Coffs Harbour (northern New South Wales) and Eden (southern New South Wales), but there are now domestic operations as far north as Cairns and Port Douglas (northern Queensland) and as far south as southern Tasmania. The main target species was initially yellowfin tuna, but recent expansion in northern Queensland has involved bigeye tuna. More recently, there has been substantial growth in fishing for broadbill swordfish in southern Queensland and for southern bluefin tuna off eastern Tasmania.

# Commonwealth and State Monitoring Responsibilities

Offshore constitutional settlement (OCS) arrangements have developed since the mid-1980s between the Commonwealth government and the governments of individual States (Including the Northern Territory). The arrangements assign responsibility for management of fisheries for tunas and tunalike species, and hence for collection of catch, effort and catch composition statistics from these fisheries. The Commonwealth has responsibility for statistics relating to most fishing activities for the larger tunas and for billfishes, whereas the States have responsibilities for collections relating to fisheries for the smaller tunas and tuna-like species (Table 1). An exception is the responsibility for recreational fishing, which rests with the States regardless of species.

The current State and Commonwealth separation of responsibility is reasonably clear, but this was not the case prior to the OCS arrangements. Before the mid-1980s the Commonwealth logbook collections were less comprehensive, and compliance was poor for some tuna fishery components. The independent State systems did not incorporate logbook collections for tuna and billfish fisheries. Their catch data were gathered rather generically by the monthly statistical returns that most States required. Tunas and tuna-like species were of varying importance among States, and it was therefore difficult to assemble a representative series of Australian catch statistics. The main species for which a reasonable time series of domestic catch exists is southern bluefin tuna. Time series of domestic catch for other species should be regarded cautiously. The most representative assemblage of domestic fishery catch data was developed by Stewart et al (1991).

All States now have comprehensive statistical collections because of the OCS arrangements, but these may still be limited to aggregate monthly returns in the case of tunas and tuna-like species. Summaries of Commonwealth and State collections of commercial fisheries statistics and collection

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forms used recently are provided in Fisheries Statistics Working Group (1997).

Establishment of a comprehensive recreational fishery statistical collection is likely to be the 'last frontier' for tuna and billfish data collection. There is no licensing system and no Australia-wide framework for imposing mandatory logbook reporting. Most catch estimates have been based on broad estimates of boat numbers, sporadic sampling of catches and interview surveys. Angling club records are also available, but their nature does not always facilitate development of representative catch estimates. Good progress has been made on developing a computer interface for transfer of recreational fishery data among the various Commonwealth and State agencies. This should be of major assistance in advancing the current efforts to quantify recreational catch levels. A National Recreational Fisheries Survey is also in the design phase.

The current report focuses on Commonwealth-maintained collections for the commercial fisheries for the larger tunas and for billfishes. The practical effect of the historic practices and the current OCS arrangements, given the nature of Australian fisheries for tunas, is that the Commonwealth has monitored the domestic surface (pole and purse-seine) fisheries for southern bluefin tuna and skipjack, the foreign (Japanese) and joint venture (Australia–Japan) pelagic longline fisheries in the AFZ, and the more recently developed small-vessel domestic longline fishery. These are the main Australian fisheries involving pelagic species that range beyond the AFZ and which are fished by other countries or entities.

The Commonwealth legislated to establish management plans for fisheries for which it has administrative and management responsibility. Part of the plans involve a requirement that permit holders report details of their fishing operations in prescribed logbooks. The plans have been introduced during the 1990s, but there has been a comprehensive coverage of the domestic pole and purseseine and foreign longline fisheries since commencement of operation of the AFZ in late 1979. The domestic longline fishery commenced in the mid-1980s, but it was not until the end of the 1980s that logbook collection covered it comprehensively.

A detailed account of Japanese longlining in eastern Australian waters, with particular attention to changes in access conditions, is provided in Ward (1996). The access regimes required strict adherence to logbook and radio reporting conditions. Previously bilateral-licensed Japanese longliners and those involved until 1995 in joint-venture operations were required to make radio reports of location and fishing activity daily, or prior to that every two days, and initially every six days. All catches were required in number and whole weight, but were in fact reported in processed weight. From 1988, both the bilateral licensed and, until cessation of their operations, the joint-venture vessels were required to measure and record the length of each southern bluefin tuna caught in the AFZ. From 1992, they were also required to complete a special logbook detailing shark catches.

#### Logbook Designs and Usage

Various logbook designs have been used in Australian fisheries for tuna and tuna-like species since 1960. Copies of forms used by the Australian Commonwealth Government are provided in Majkowski and Morris (1986) and Caton (1991). The logbooks currently in use (Appendix A), but presently being redesigned, are:

- Australian Pelagic Longlining Daily Fishing Log [code 'AL04'] (used predominantly by the small-vessel monofilament longline fleet);
- Australian Purse Seine and Pole Daily Fishing Log [code 'TPB02'] (used by domestic pole and purse-seine vessels); and
- Australian Tuna Minor Line Daily Fishing Log [code 'OT03'] (used by small domestic troll, rod-and-reel and handline vessels).

The last three logbooks were introduced in 1997. Their precursors (versions AL03, TPB01 [which replaced separate pole and purse-seine logbooks], and OT02; Appendix B) were introduced in 1996.

The AFZ Catch Record logbook [code 'TL04'; Appendix C] was used from 1983 by Japanese, joint venture and charter longliners. Beginning in 1995, these longliners were required to report daily by satellite transceiver to the Vessel Monitoring System (VMS), and ultimately it was intended that the VMS would replace the logbook system. Both systems, however, were still in use when Japanese longliners were excluded from the AFZ in 1997. The log records had not been punched after 1995, but were used to correct VMS records when necessary.

Time spans for which data were gathered with the various logbook versions are shown in Table 2 for the period since 1979 (when the AFZ commenced operation). Majkowski and Morris (1986) provide details of periods of application for earlier versions. In some cases the time spans overlap because some activities were logged belatedly on new forms or were logged on superseded forms. For example, a small proportion of the foreign longliner daily records in the database for 'numbers only' years contain weight data, and a moderate proportion of daily records in 'number and weight' years have no weight data. These records should be screened before calculations such as average weight are generated from aggregated data.

Percentage coverage by the domestic fisheries collection has varied, and it has been related to the extent of field support. Under-representation is the most common feature, but in some circumstances the logbooks may have over-reported catches and effort. The latter may have occurred when fishers have sought to establish an activity history in an attempt to secure access where restricted entry or catch limits are to be established for a fishery. Attempts have been made to incorporate adjustments for this in annual statistics, where reasonable estimates of the nature of shortcomings can be made, but the logbook data provided by fishers are not adjusted.

In the case of swordfish, the logged catches for the domestic fishery probably under-represented catch in the early years of the longline fishery because mercury content restrictions influenced the extent to which catch could be marketed, especially in the case of larger fish. In such cases, the fish might not be landed, nor recorded in logbooks. Albacore tuna was not readily marketable either. A component of the catch was discarded, so catch details in logbooks were underrepresentative. There has been an agreement among commercial longliners and recreational fishers that blue and black marlin would not be retained as commercial species, even if brought alongside dead. For these species, and for non-commercial bycatch, logbook details probably underrepresent catches.

Calibration of coverage and accuracy of domestic logbooks has only been practical to date for the southern bluefin tuna component, for which there has been strict monitoring of a system of individual transferable quotas since their introduction in the domestic southern bluefin tuna fishery in the early 1980s. For this reason, these quota data are used as the indicative southern bluefin tuna statistics base. The catch against quota is monitored by quota reporting forms [code 'CR3'; Appendix D], which track landings, product type and movement between the catcher and the processor of southern bluefin tuna product. Vessels towing pontoons of live fish back to farms must also maintain records of the origin, destination and losses of fish [code 'SBT02'; Appendix D].

In 1995, a system of receiver permits, supported by a monitoring program, was established for the southern Australian region, initially for southern bluefin tuna. The system was extended to the eastern coast of Australia in 1997 and expanded to include all fisheries. It is likely that it will be introduced into western fisheries in the near future. This should facilitate validation of logbook reported catches of all species.

A foreign vessel observer program, together with pre- and post-fishing inspections in ports, has provided the basis for calibrating the foreign and joint-venture longline logbook data. The observer program also gathers operational data. The observers monitor catch species composition, providing information on retained and discarded species. They also monitor size composition and collect ancillary biological measurements and samples. There is currently no observer program on domestic tuna vessels. Instead, personal contact with fishers is maintained in ports by the field liaison staff of the logbook programs. An intensive size-composition sampling program has operated for many years in the domestic southern bluefin tuna fishery (Majkowski, 1982; Morris and Majkowski, 1986; Caton, 1991). Since 1997, size sampling has also been undertaken in the east coast tuna and billfish fishery.

Japan requires distant water longliners to maintain a daily record of location of operations, number of hooks set, and catch in number by species. The data are summarized by month and by 1-degree square in Japan, and tabulations of global catch and effort data aggregated monthly for 5-degree squares have been published for each year from 1962 to 1980 (the Japanese 'yellow book' series). While continuing to gather and process the logbooks, Japan ceased publication of the book data after 1980. However, under cooperative research arrangements with the Commonwealth Scientific and Industrial Research Organization (CSIRO) it has given that organization access to monthly 5-degree square aggregated data for grids in which southern bluefin tuna have been taken. Collaborative research projects have also involved use of finer-scale data. The 'yellow book' series provides an indication of historic catches and catch rates for areas encompassed by the AFZ, but a direct comparison with AFZ catch rate data gathered subsequently is not possible because the two data series are aggregated differently, and the AFZ data are truncated in area of coverage by the zone boundary.

# The Australian Fishing Zone Information System

An Australian Fishing Zone Information System (AFZIS), was developed as a joint-access system among the then Commonwealth Department of Primary Industry, CSIRO, and State fisheries authorities. It was the main repository of fleet, catch and effort information for foreign and predominantly Commonwealth-managed domestic fisheries. The system was designed to incorporate licensing, vessel register, catch/catch-size-composition/effort, and foreign vessel observer data, as well as data arising from feasibility fishing and research cruises. The catch and effort component was quickly operational, but the licensing and vessel register components were never integrated. Tuna fishery observer data were not incorporated until 1995. Currently, the monitoring data are kept by the Australian Fisheries Management Authority (AFMA), but no longer formally as 'AFZIS'. Essentially the collection spans logbook/radio/VMS catch and effort database, and a licensing/quota-monitoring database, with some ancillary observer and size composition components. Its focus is management-oriented data, and input of collections such as research cruise or feasibility fishing operation data is no longer supported.

Majkowski (1982), Majkowski and Morris (1986) and Caton (1991) provide descriptions of AFZIS in relation to domestic and foreign components of the AFZ tuna and billfish fisheries, with a focus on southern bluefin tuna. These descriptions of data collection, processing, storage and access arrangements relate to the pre-1990 AFZIS situation. The system was moved in the early 1990s from a FORDATA database on the CSIRO 'CYBER' computer to an INGRES database on a HP machine under a UNIX operating environment. Data punching and editing routines have been changed from those described in Majkowski and Morris (1986), but are generally similar in concept. The data retrieval routines described in Majkowski and Morris (1986) are no longer relevant. The licensing/boat register and quota monitoring databases are not stored on the logbook/radioreport/VMS/observer database. However, the intention, similar to that of the initial AFZIS concept, is ultimately to link all in a distributed database design.

The logbook/radio/VMS/observer database is no longer easily accessible by users outside AFMA. It is now regarded by AFMA as essentially its corporate database rather than a cooperative database. Confidentiality provisions are specified in logbook regulations and, in association with this, security barriers are imposed to control access to data. Domestic users (such as the Australian Bureau of Resource Sciences and CSIRO) and international bodies (such as the Secretariat for the Pacific Community and the Indo-Pacific Tuna Development and Management Programme) are required to sign deeds of confidentiality that contain provisions about the nature and purpose of use of the data. The outputs are provided as data 'dumps' on disk from time to time, impeding real-time access to update data holdings. Also, in some circumstances individual fishers' data have to be aggregated before release to maintain commercial confidentiality. While users contribute to identification and correction of errors in the holdings, there is no routine arrangement yet for notification of errors or feedback about consequent database revision. When AFZIS was established a user group was formed to coordinate resolution of issues such as data access and maintenance. Broader collaboration among the Commonwealth and States is facilitated by a Fisheries Statistics Working Group. The former lapsed in the late 1980s, but a recently-formed Commonwealth Fisheries Data Users Group has taken on a generally similar role.

The previous three data collection reports (Majkowski, 1982; Majkowski and Morris, 1986; Caton, 1991) and the current report document the evolution of data-collection processes and provide accessible copies of the data forms. It will be apparent that some data fields have at various times have been considered either 'essential' or 'disposable', as various elaborations and simplifications of forms have taken place. These changes complicate the analysis of long-term time series of data.

#### References

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Table 1. Commonwealth government and State government responsibilities for monitoring of Australian fisheries f	for
tuna and tuna-like species	
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Species	Current fisheries	Previous fisheries
Southern bluefin tuna; yellowfin tuna; skipjack tuna; albacore tuna; bigeye tuna; broadbill swordfish, striped marlin; blue marlin; black marlin; sailfish; short-bill spearfish	Pole-and-bait fishery; purse-seine fishery; small-vessel monofilament longline fishery; troll fishery; rod- and-reel fishery; tuna cage-rearing operations.	Joint-venture longline fishery; and licensed foreign longline fishery
State Governments*		
Species	Current fisheries	Previous fisheries
Spanish mackerels ( <i>i.e.</i> seerfishes/king mackerels); longtail tuna; kawakawa; little tuna; blue mackerel; bonito; all recreational catches	Spanish mackerel troll fishery; blue mackerel purse-seine fishery; northern shark gillnet fishery (mackerel bycatch); recreational charter fishery	Foreign gillnet fishery (Commonwealth-managed)

\* State Governments includes the Northern Territory Government, and it should be noted that an OCS arrangement between the Commonwealth and New South Wales Governments has not been finalised for some species.

Table 2. Log	book usage	since 1979 in Australian tuna fisheries
Fishery component	Logbook	Time span of data provided on the log format
	version	
Foreign longline fishery in AFZ	TL01	1 Sep 79 – 28 Sep 81 (Japan Fisheries Agency Tuna
		Longline Fishery Logbook)
	TL02	3 Nov 79 – 25 Aug 89
	TL03	(assigned to computer file of Japanese 'Yellow Book' data)
	TL04	18 Nov 80 – 31 Oct 95; subsequently continued as a back-up
		system
Domestic longline fishery	AL01	(Temporary form; Coral Sea special permit area)
	AL02	1 Mar 85 – 1 Jan 97
	AL03	1 Jan 95 – 10 Feb 97
	AL04	1 Apr 97 – continuing (for reporting 'nil' fishing)
Domestic pole fishery	TP03	17 Aug 76 – 31 Jul 84
	TP05	22 Jan 82 – 31 Jan 97
	TP06	3 Jan 83 – 30 Sep 93 (WA logbook; fishery ceased
		commercial operation)
Domestic purse-seine fishery	SF04	1 Sep 75 – 21 Apr 82
	SF05	13 Oct 82 – 5 Apr 96
Combination pole and purse-	TPB01	1 Jul 95 – continuing (for reporting 'nil' fishing)
seine fisheries		
	TPB02	1 Apr 97 – continuing
Domestic 'other line' fishery	TH02	30 Sep 83 – 22 Oct 84
	OT01	26 Jul 89 – 26 Feb 96
	OT02	1 Jul 95 – continuing (for reporting 'nil' fishing)
	OT03	1 Apr 97 – continuing

Source: T. Skousen; Australian Fisheries Management Authority.

## APPENDIX A.

### Current domestic logsheets Australian Pelagic Longlining Daily Fishing Log [code 'ALO4']

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Australian Purse Seine and Pole Daily Fishing Log [code 'TPB02']

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## Australian Tuna Minor Line Daily Fishing Log [code 'OT03']

<ul> <li>If you need a fish measuring ruler, plase contractive, white happy to send you non request</li> </ul>	Weight Length Market Form (kg) (cm) (E or D) Code										East Copert Are March - Clifford Control	
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			Landing Details	Port of Landing:		Date of Landing:	Fish sold to:	in the line of the				Comments						Verified Total Weights for Trip (kg)	ish Export Wt. Form Export Wt. Form o sea (kg) Code (kg) Code																				<ul> <li>Master's Signature: I certify that the information I have newlided on this form is a complete and accurate record.</li> </ul>		and the second se	
Master's Name:	wn []	5 Other Fishery	her Line Methods Used	your longline trip. Tick method used,			Long.	No. of	Lines	ki:		Long.	No. of			Ione	jo oN	Lines	h Est. Total Weight No. of F ept caught & kept (kg) returned t																				Number Species (if know		100 C	
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No. 0369 05		tid not work between		fauling Information:	shot (lat/long)	hot (lat/long)	faul (Jat/long) and (Jat/lone)	Information:	h of mainline (NM)	h of branchlines (metres)	hooks between bubbles	the of bubble lines (metres) the between hooks (metres)	of deepest hook (metres)	er of hooks set	rpe/wgt, used for shot (kg)	ographic Information:	urface temperature (C) at disortion/encod (knote)	direction/speed (knots)	Details: Tick how below to show target species	vfin Tuna of less than 10kg	wfin Tuna over 10kg	ern bluenn runa e Tuna	ore	ick Tuna	d Marlın bill Swordfish	Marlin	Marlin	Whaler Shark	-finned Mako Shark • Whater Shark	tip Shark	Shark	nerhead Shark	all Shark	Mahi (Dolphinfish)	rfish	0	(specify)	(specify) (specify)	ife Interactions:	SSO!	scabirds (specify)	

## **APPENDIX B. PREVIOUS DOMESTIC LOGSHEETS**

- 305 -

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caded; G=Gille & gutted); F=F	Length (cm)								Forest A					14 Jac 1				
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		NON-FISHING CODE	(TICK APPROPRIATE BOX)	1 Bad weather 21n port 3 Broken Down	4 Steaming
I did not work between/	/ and		wing (also see field at bottom	n of page) 5 Other Fishery (specify) 5	
Fishing Method Used? (tick	appropriate box)	Poling	Distinguishing Number/s used for assistance while	s of Poling Boards c seining	
Date of Fishing Non-Fishing Searchin Code (if note wheth Operation applicable) for bair or 1	g Details r searching narket fish) using for log entry:	Fishing Details If you are poling mote in Commons whether other Ama single polices are used.	Bait Details	Estimated Catch Weights per Shot (kg) - tick box below to it Note: There are tagged fish recognize from as it are to 0 log	indicate species targeted.
(layfreenth) consistent etarroad (layfreenth) on ngint 19	Parter Tam Parter Surface Ca Herden User) (YM) (CD) (CD) (Deal tim (Deal tim (Deal tim	by Latitude Longitude Pool Proc Bear	Species of Batt. Caught (specify)	Taulous and Sandram Signifier Albacer Velovita Jack on Jack and Used Tanger Tan	Targets: Contropersis fainund de la control
anding Details:		Wildlife Interactions: List any wildlife caught in your net dolphus, seals etc) including the m	(e.g. turtles, imbers caught.	Verified Catch Weights for Trip: Other species (specify):	
ort of Landing:		Species	Qiy:	Skipjack kg	kg
Date of Landing:		Species	Qty:	Albacore kg	kg
Dwner of cage f cage towing:		Species	Qiy:	Southern kg	, , , , , , , , , , , , , , , , , , ,
Tish Sold To:		Species	Qty:	Yellowfin kg	By .
Comments:		State Species By Catch:	Oth	ther species (specify): Master's S information 1	Signature: I certify that the
		· Yellowtail Kingfish Other species (specify):	kg	kg kg	plete and accurate record.
			kg	k	
		Same and any main and	kg	kg	
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Australian Tuna Purse Seine and Pole Log [code 'TPB01']

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Australian Fisherics Management Authority Commonwealth of Australia		Au	stralian Tuna	Minor Line	Fishing Log	book - UTV	<b>)</b> Z	rm Codes: W=Whole; Trunk (headed & gutte	G=Gilled & Gutted; ' d); F=Filleted; H=Headed
<sup>Log No:</sup> 0262	Page No: 01	Date:	Boat Name:			Dist. Symbol:	Master's Name:		
I did not work between		/	dueto: NOI	N-FISHING CODE KAPPROPRIATEBOX)	1 Bad Weather	2 In Port	3 Broken Down	4 S	teaming
Area Fished	Time Zone you				10 Refit	5 Other Fisher	y (specify)		
Latitude	are usurg. Longi	itude	TOTAL	CATCHFOR TH	IE DAY	LANDING	G DETAILS (In for	nclude Total <u>Mer</u> each species ca	ified Weights. ueht and sold)
			<sup>2</sup> Fis	h Retained	Number o Fish				0
<b>Fishing Method</b>	(s) Used Today	(tick)	Species Code (see list on N	umber of Fish Estima	ted Total Wt. Returned	Port of Landing:			
Handlining	Hrs. Fished	hrs	back of writing template)	aught and kept caught	and kept(kg) to Sea	Date of Landing			
Trolling	Hrs. Fished	hrs				Sold To:			
Rod & Reel	Hrs. Fished	hrs				Species Code:	Export Wt (kg)	Form Dc Code W	mestic Form /t (kg) Code
Other (specify in Comments)	Hrs. Fished	hrs							
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Bait(s) Used T	oday (tick & ente	er Qty.)							
Jack Mackerel	Gty [	kg							
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Rat Tail		kg				Species Code:	Export Wf (kg)	Form Do Code V	Mestic Form At (kg) Code
Yellowtail		kg							
Squid		kg							
Pilchards		kg	WildlifeInteractions	No. Live	No. Perished				
Lures	Live Bait? Y/N		Albatross						
B	ait Purchased? Y/N		Other Birds (specify)			Master's Signe	nture: I certify that the	information I	have provided
Other (specify)	Qty	kg	Other Wildlife(specify)			OD III	s torm is a complete at	nd accurate re	-DIU-
Comments:				anita esta solve	Marker Detail				
Note: There is space to enter length ORIGINAL COPY - send to AFMA	s and weights for individual fr	ish and/or tagged fish	on the reverse of this page if you are able to	o record these details.	If you catch	ny banded birds, or if you are havi	ng any problems with birds, please cc GPO Box 44A Hobart T	ontact the Tasmanian F Fasmania 7001 Ph. 00	arks and Wildlife Servic. 2 333 865 Fax 002 333 47

#### Australian Tuna Minor Line Fishing Log [code 'OT02']

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## APPENDIX C. JAPANESE, JOINT-VENTURE AND CHARTER LOGSHEET

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AFZ Catch Record logbook [code 'TL04']

## APPENDIX D. CURRENT SOUTHERN BLUEFIN TUNA CATCH AGAINST QUOTA RECORDS

CR3 - RECORD OF SOUTHERN BL	UEFIN TUNA (SBT) TAKEN
Vessel Details Name	Distinguishing No.
Catch & Disposal Details         Estimate of quantity disposed of       (Kg)         Number of Fish	Processor's Details (or Tuna Farm) Processor/Buyer or Tuna Farm

Record of Southern Bluefin Tuna Taken [code 'CR3']

Original (white) deliver to State Inspector

CR3 - RECORD OF SOUTHERN	BLUEFIN TUNA (SBT) TAKEN	
Vessel Details		
Name	Distinguishing No.	
Catch & Disposal Details	Processor's Details (or Tuna Farm)	
Estimate of quantity disposed of (Kg)	Processor/Buyer	
Number of Fish	or Tuna Farm	
Area Fished	Unprocessed Weight (Kg)	
nsw tas sa wa vic	Processed Weight (Kg)	
Fishing Method	* I certify these details accurately describe fi	ish received
Dates fish taken / / Date landed / /	Signature	
Disposal Location	Date / /	
as master of the vessel des	scribed above, certify that the vessel was	

SBT Carrier and Tuna Sea Cage Towing Boat Data Sheet [code 'SBT02']