

Results of ICCAT Survey on Statistic Collection Systems. Empty cells mean that no information was received.

Party/ Entity	Gears	Species	Current Fleet Size	Fishing area(s)	Fishing season	Average Size	Period	Continuity	Observ. Pgm	Landing & catch	Catch & Effort	Size data	By-catch	Discards	Quality control	Other biol. Info	
ALGERIE	Longline Haul Seine Hand Trap	ALB	10 vessels for large pelagics. 985 multi-specific small boats	Medit.	August to May	BFT = 125cm SWO = 125cm LTA = 33 cm	1950 to 2001	No	All foreign boats have observers	Census from dealer	Port sampling	Fish not measured	By-catch included in system	No discards	Verification carried out in 3 major ports	Yes, not specified	
		SWO															
		BON															
		LTA															
		BOP															
		SSM															
		YOU															
		FRI															
SKJ																	
CANADA	Longline	SWO	77 vessels	N.W.Atl	April to Nov.	swo=58kg	1960-2001	Yes	Yes	Logbook and census	Logbook and census	All fish measured and weighed when unloading	by-catch recorded but not always sampled	Discards estimated & reported to ICCAT			
		BET															
		YFT															
		ALB															
	Harpoon	SWO	1248 persons	N.W.Atl	June to Nov.	swo=111 kg	1940-2001	Yes	5% coverage	Logbook and census	Logbook and census	All Fish measured & weighed at dockside	No	No			
		BFT															
	Tended Line	BFT	757 persons	N.W.Atl	June to Nov.	200 kg	1980 to 2000	Yes	5% coverage	Logbook and census	Logbook and census	All fish measured and weighed when unloading		No discards			
		BET															
		YFT															
	Rod & Reel	BFT	757 persons	N.W. Atl	June to Nov.	300-400 kg	1900-2001	Yes	5% coverage	Logbook census	Logbook census	All measured		No discards			
		ALB															
	Trap	BFT	4*6 trapnets	N.W. Atl	June-Oct.	med.-larg.	1970-2001	Yes		Logbook census	Logbook census	All measured		No discards			
		ALB															
	CAP-VERT	Baitboat, Hand, Purse Seine	SKJ	68 indust. vessels & 1257 artisanal boats	EEZ of Cape Verde	All year	Medium size	First year not known	Yes	No observ.	Logbook	Port sampling	Port sampling	By-catch data included in data collection	No discards estimated	No verification done	No
YFT																	
BET																	
LTA																	
FRI																	
WAH																	
CHINA P. R.	Longline	BFT		Trop. Atl for BET Medit. & North Atl for BFT	All year for BET, and variable for BFT	Medium and large fish	1993 to 2001	Yes	1 observ for 1994-96 and 3 for 2001	Full log coverage	Full log coverage		By-catch included in system	Discards estimated from scient. Observ.	Validation made by TUNA Working Group	No	
		BET															
		YFT															
		ALB															
		SWO															
		BLM															
		WHM															
SAI																	

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E.C. FRANCE	Trawl	ALB	78 vessels	N.E Atl	August to Sept.	Juvenils & adults	1986 to 2001	Yes	No observ.	Logbook & census from dealer	Logbook & census from dealer	0.054% of catch measured	By-catch included in system	No discards estimated	No verification done	No	
		BFT															
		BET															
		SWO															
	Gillnet	ALB	38 vessels	N.E Atl	July to Sept.	Juvenils & sub_adults	1987 to 2001	Yes	No observ.	Logbook & census from dealer	Logbook & census from dealer	0.84% of catch measured	By-catch included in system	No discards estimated	No verification done	No	
		BFT															
		SWO															
	Baitboat	ALB	4 vessels	N.E Atl	Summer	Juvenils & sub_adults	1950 to 2001	Yes	No observ.	Logbook & census	Logbook & census	No fish measured	Included in system	No discards estimated	No verification	No	
		BFT															
	Purse seine	BFT	38 vessels	West Medit.	Mar to Nov.	Variable	1960 to 2001	Yes	No observ.	Logbook & census	Logbook & census	Size from dealer	No bycatch	No discards observ	BFTMED E.C. project	No	
	Purse seine		YFT	14 vessels	East Trop	All year	30-80 cm FADS 40-160 cm FREE 35-100 cm 30-60 cm 90-130 cm	1963 to 2001	Yes - up to 1990 data included Cote d'Ivoire, Senegal and sometimes Morocco	Associated fauna study 3% coverage	Complete cov of comm landings corrected for species comp	Logbooks	Double sampling actual size from catch and size composition by main species-about 1 sample per 130 tons	Included in catch data but not regularly sampled	Not usually estimated, occasional data from observers	Verification procedures for each trip and for annual data for the whole fleet	Sex-ratio planned for YFT and BET
			BET														
			SKJ														
			ALB														
			LTA														
			FRI														
			BUM														
WHM																	
SAI																	
WAH																	
OTH																	
Bait Boat		YFT	5 vessels	East Trop	All year	30-100 cm 35-100 cm 35-65 cm	1956-2001	Yes - up to 1990 data included Cote d'Ivoire, Senegal and sometimes Morocco	No observ.	Complete cov of comm landings corrected for species comp from logbooks	Logbooks	1 sample for each 500 tons	Rarely included		Occasional biometric relations, sexual maturity, growth		
		BET															
		SKJ															
		LTA															
		FRI															
		BUM															
		WHM															
		SAI															
		WAH															
OTH																	

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EC-FRANCE-MARTINIQUE	Hand (flotsams)	WAH		West Trop	January to June			Yes		Weekly survey on landing sites and markets	Weekly survey on landing sites and markets	Sampling conduct at landing site					
		FRI															
		LTA															
		YFT															
		BLF															
		SKJ															
	Hand (FAD)	WAH	West Trop	All year	1990 to 2001	Yes		Yes		Weekly survey on landing sites and markets	Weekly survey on landing sites and markets	Sampling conduct at landing site					
		FRI															
		LTA															
		SAI															
		SKJ															
		BUM															
		SPF															
		YFT															
		BLF															
		84 CM															
		28 CM															
		27 CM															
		157 CM															
32 CM																	
203 CM																	
-																	
57 CM																	
33 CM																	
EC-NEI	Purse seine	YFT		East Trop	All year	30-80 cm FADS	1991-2001	Yes	No observ.	As for EC-France	As for EC-France	As for EC-France	As for EC-France	As for EC-France	As for EC-France	No	
		BET															
		SKJ															
		ALB															
		LTA															
		FRI															
		BUM															
		WHM															
		SAI															
		WAH															
		OTH															
		40-160 FREE															
35-100 cm																	
30-60 cm																	
90-130 cm																	
JAPAN	Longline	BFT	250 vessels	All Atlantic including Medit.	All year	Medium to large	1972 to 2001	Yes	< 1 % coverage for observ.	Logbook and extrapolation based on effort	Logbook and extrapolation based on effort	20 % of catch sampled	Billfish and major shark species are covered	Discards from obs. pgm	Logbook checked by personnel when landing and reviewed by biologist and by computer	No	
		SBF															
		YFT															
		ALB															
		BET															
		SKJ															
		BLM															
		BUM															
		WHM															
		SPF															
		SWO															
		BFT															

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Party/ Entity	Gears	Species	Current Fleet Size	Fishing area(s)	Fishing season	Average Size	Period	Continuity	Observ. Pgm	Landing & catch	Catch & Effort	Size data	By-catch	Discards	Quality control	Other biol. Info
LIBYA	Trap	LTA	3 Traps	Medit.	May-June	Medium-large	1919-2001	yes	No	Full logbook coverage	sampling by day	80% sampled	Sharks and Perciforms	no discards	visit by scientist	Sex and maturity
	longline	BFT	6 exc. Joint ventures	Medit.	May	Medium-large	1975-2001	yes	yes	Full logbook coverage	Full log coverage	weight only. 100%	--	--	visit by scientist	only weight
		SWO														
Purse seine	BFT	5 boats	Medit.	May-June	Medium-large	1990-2001	yes	-	By dealer census	--	--	--	no discards	--	length-weight. Sex Mat	
MEXICO	Longline	YFT	40 vessels	Gulf of Mexico	All year	137 cm	1981 to 2001	Yes except 1988	All trips covered	Logbooks and observ.	Logbooks and observ.	80-100 % catch measured	Included in the collection system	Some data available but not sent to ICCAT	Logbooks vs census	

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Party/ Entity	Gears	Species	Current Fleet Size	Fishing area(s)	Fishing season	Average Size	Period	Continuity	Observ. Pgm	Landing & catch	Catch & Effort	Size data	By-catch	Discards	Quality control	Other biol. Info
RUSSIA	Longline	ALB	6 vessels and 3 processing boats	East Trop	All year	Large fish	From 1964 to 1990	Yes	70 % of fishing time covered by observ.	Logbook full coverage	Logbook full coverage	25 % of catch measured	Shark catches collected in LL until 1990.No by-catch data available for PS	No discards	Catch estimates vs canning	Wgting sex gonads muscle morphology
		YFT														
		BET														
		WAH														
		SAI														
		BUM														
		WHM														
		SWO														
	SHK															
	Purse seine	YFT	from 3 to 12 vessels depend-ing on the year	East Trop	All year	Variable	From 1979 to 2000	Yes	50 % of fishing time covered by observ.	Daily report from fishing vessel	Daily report from fishing vessel	1 % of catch measured	No data available	No data available	Verification only with observers data	Wgting sex gonads stomach
		BET														
		SKJ														
		LTA														
		FRI														
BLT																
TRINIDAD & TOBAGO	Artisanal	BET	1190 boats	Carribean area	All year		? To 2001	Yes		Interviews with fishermen or vendors	Interviews with fishermen or vendors	Sample size freq. Done at landing site	All catch data collected	No data available	Data entry process verification	
		SKJ														
		BON														
		FRI														
		WAH														
		KGM														
		SAI														
		BUM														
		BRS														
	MIX															
	Longline	YFT	10 vessels	Carribean area	All year		1950 to 2001	Yes		Export data and domestic sales	Export data and domestic sales	Wgt of fish recorded when exported	Export data and domestic sales	No data available	No process established except fro swo to monitor quota	
		ALB														
		BET														
		KGM														
SAI																
BUM																
WHM																
SWO																
URUGUAY	Longline	SWO	8 vessels	S.W. Atl	All year but 1st quarter min and 3rd quarter max	Large fish	Since 1981	Yes	Observ. pgm each 3 months	Logbooks but less coverage and landings form	Logbooks but less coverage and landings form	Fish sampled on board	Some shark species. Birds and marine mammals	Discards from observ. Pgm	Low coverage of data less quality	
		BET														
		YFT														
		ALB														
		SHK														
		BUM														
		WHM														
OTH																

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UKOT-BERMUDA	Hook and Line (RR-LL)	YFT	200 vessels	N.W. Atl	All year most effort in summer		1950 to 2001	Yes	No observ pgm; some vessels take commercial fisheries officers	Full census	Full census	Some size sampling conducted at dockside	By-catch included in system	Not collected but very low	Opportunistic verification & data entry process verification	Sex gonad maturity hard part tissues
		ALB														
		BET														
		BLF														
		LTA														
		SKJ														
		WAH														
		BUM														
		WHM														
SWO																
SPF																

BENIN	Haul Seine	BLF	76 boats	Gulf of Guinea	Sept. to Jan.	Medium size				Random sampling	Random sampling	No size sample				
		BET														
		SKJ														
		MAW														
ICE-LAND	Longline	BFT	5 vessels	Iceland EEZ	August-October	200 cm	1996-2001	Yes	100% covered	100% observer coverage	100% observer coverage	98% sampled	yes	not reported	checked with Jap. logbooks	Sex, diet, maturity, genetics
CHINESE TAIPEI	Longline	ALB	190-200 vessels	All Atlantic including Medit.	January to Dec.	alb=100cm	1967 to 2001	Yes	No obs. pgm	Census from dealer	From logbooks	First 30 fish caught each fishing day measured (20 % of catch)	Included in the collection system	Not available	Cross check with sales record verification sales settlement certification NJS	
		BET														
		YFT														
		BFT														
		SKJ														
		SAI														
		BLM														
		BUM														
		WHM														
		SWO														
		OTH														
whm = 170 cm																
bum = 200 cm																
blm = 180 cm																
sai = 130 cm																
skj = 70 cm																
oth = 130 cm																

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ALBANIA	Responded - Do not have tuna fisheries in Convention Area							-	-	-	-	-	-	-	-	-	
EC-DENMARK	Responded - Do not have tuna fisheries in Convention Area							-	-	-	-	-	-	-	-	-	
EC-SWEDEN	Responded - Do not have tuna fisheries in Convention Area							-	-	-	-	-	-	-	-	-	
GUATEMALA	Responded - Do not have tuna fisheries in Convention Area							-	-	-	-	-	-	-	-		
SALVADOR	Responded - Do not have tuna fisheries in Convention Area							-	-	-	-	-	-	-	-		
SINGAPORE	Responded - Do not have tuna fisheries in Convention Area							-	-	-	-	-	-	-	-		
THAILAND	Responded - Do not have tuna fisheries in Convention Area							-	-	-	-	-	-	-	-		
UKOTI-FALKLAND	Responded - Do not have tuna fisheries in Convention Area							-	-	-	-	-	-	-	-		