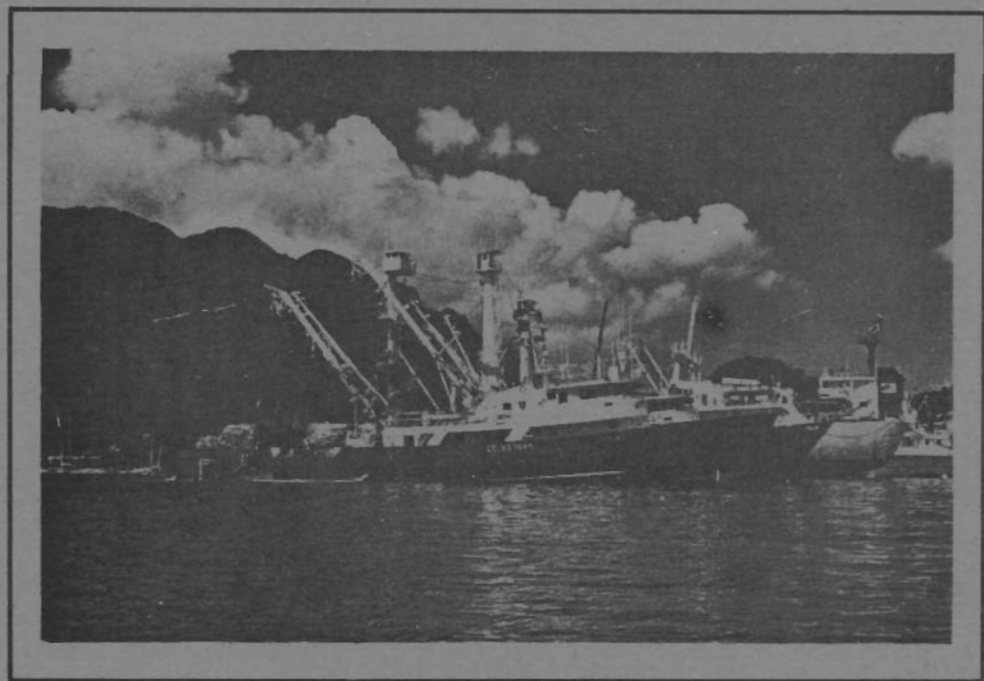


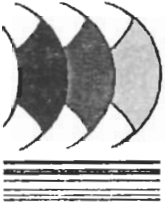


SEYCHELLES FISHING AUTHORITY

TUNA BULLETIN



First Semester 2002

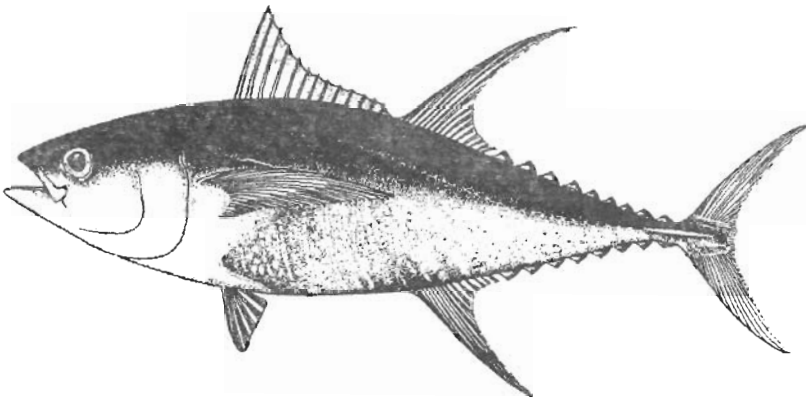


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SEYCHELLES TUNA BULLETIN

First Semester 2002



Prepared by: **SEYCHELLES FISHING AUTHORITY**

SEYCHELLES FISHING AUTHORITY

The Seychelles Fishing Authority (SFA) was incorporated in August 1984 by the Seychelles Fishing Authority (Establishment) Act. This body was formed in view of the need to develop the fishing industry to its fullest potential. It is a parastatal organisation with autonomous legal and financial status, supervised by a board of directors appointed by the President.

The Ministry of Agriculture and Marine Resources is responsible for policy directives in fisheries related matters, and SFA is the executive arm of the government in all fisheries activities. Responsibilities include:

- assessment and management of the fisheries resources;
- assistance in conducting negotiations with foreign fishing fleet operators;
- coordination and support of fishing ventures and owner/operators;
- management of the fishing port;
- development of gear technology;
- coordination of manpower training in the fishing sector.

This volume on catch statistics of purse seiners and longliners fishing tuna in the Western Indian Ocean (WIO) has been compiled by the Research Division using the Newtuna programme developed by the Indo Pacific Tuna Programme (IPTP). We are grateful to IPTP for their assistance in replacing the old tuna statistics program which had become unserviceable and to Association Thonière for financing this.



Randolph Payet
Managing Director

SUMMARY : First semester 2002

Data used to generate the tables and figures presented here are based on daily catch and effort forms (logbooks) returned from fishing vessels that are licensed to fish in the Seychelles EEZ. Sometimes there is a delay in these being received at SFA, especially during and just after the second quarter of the year when most vessels are fishing in the Mozambique Channel. Readers should be aware that many of the figures presented here (especially the most recent) are subject to revision (usually upwards) as more data become available. The date upon which the SFA database was closed prior to the generation of the statistical tables is shown at the head of each table.

PURSE SEINERS

PRINCIPAL POINTS

- The total purse seine tuna catch for the Western Indian Ocean in 2001 is now 295,936 Mt. This catch was achieved by an average of 50 vessels licensed per month. The total effort reported for the purse seine tuna fleet during 2001 was 13,871 days, thus giving a mean catch rate of 21.33 Mt/fishing day.
- The catch reported by purse seiners for the Western Indian Ocean (WIO) within the first semester of 2002, was 140,704 Mt. This was the result of an average of 49 purse seiners licensed per month. The catch recorded during the same period of 2001, was 119,479 Mt, achieved by an average of 51 purse seiners licensed per month. An increase of 18% in catches was therefore recorded during the first semester of 2002. The highest catch recorded so far during that period of the year was in 2000, when some 241,710 Mt of tuna were caught. The average catch rate reported for the first semester of 2002 is 22.25 Mt/day, compared to 17.51 Mt/day in 2001. The highest catch rate so far recorded for that period of the year was in 1995 when 23.81 Mt of tuna were caught per fishing day.

Table I shows the species composition of the total catch reported during the first semester of 2001 and 2002.

SPECIES	2001	%	2002	%
YELLOWFIN (<i>Thunnus albacares</i>)	56,107	47	60,525	43
SKIPJACK (<i>katsuwonus pelamis</i>)	53,922	45	74,374	53
OTHERS (<i>Thunnus obesus</i> & <i>Thunnus alalunga</i>)	9,450	8	5,805	4
TOTAL	119,479		140,704	

- Some 6,323 fishing days were recorded during the first semester 2002, compared to 6,824 days recorded during the same period of the previous year. This represent a decrease of 7% or 501 fishing days.

Readers should be well aware that the catch compositions given here are NOT based on scientific sampling but on the assessment of the fishermen who write the daily catch and effort reports and who decide into which group fish should be placed. They may be biased.

It should be noted that the figures in Table 3 (Purse seiner transshipment statistics by harbour of transshipment) represent the transshipments of vessels whose trips ENDED in the month indicated and NOT the actual month of physical transshipment of the catch.

- The total amount of tuna unloaded through Victoria during the year 2001 was 248,454 Mt. During the first semester of 2002 a total of 116,341 Mt, representing 83% of the total catch was unloaded in Port Victoria, compared to 91,622 Mt, representing 79% of the total catch, unloaded during the same period of the previous year. An increase of 27% was recorded in the amount of tuna unloaded in port Victoria in 2002.

LONGLINERS

PRINCIPAL POINTS

Readers should be aware that these statistics only represent a small sample of longliners activity in the WIO because:

- Not all longliners fishing in the WIO have a license to fish in the Seychelles EEZ and therefore are under no obligation to report to SFA.
- Some Distant Water Fishing Nations (DWFN) provide SFA with log sheets covering their activity in the whole Indian Ocean while others confine their reports to the Seychelles EEZ.

The statistics published for 2001 are related to 80¹ logbooks received at the date of publication of this bulletin and a total of 241² licenses were issued to 169 vessels. For the first semester of 2002 we received a total of 99³ logbooks for the 82⁴ licenses issued to 64 vessels.

- During the first semester 2002 the number of licences taken by Japanese vessels dropped by 24%. Furthermore there were no licences taken by vessels from South Korea and Spanish vessels did not renew their licences. The number of licences issued to Taiwanese vessels increased from 24 to 54.

Analyses of data collected to date show that:

- The total catch reported to SFA by longliners for 2001 is now 5,712 Mt. This was achieved from a fishing effort of approximately 13.9 millions hooks and an average catch rate of 0.41 Mt/1000 hooks.
- The total catch reported for the first semester of 2002 is 2,606 Mt, obtained from a fishing effort of approximately 4.9 millions hooks and a mean catch rate of 0.54 Mt/1000 hooks. The mean CPUE reported by nationality was: 0.55 Mt/1000 hooks for the Japanese and 0.32 Mt/1000 hooks for the Taiwanese. It should be pointed out that these statistic will be revised when more data will be available.
- For this same period, yellowfin (*Thunnus albacares*) comprised 34% of the total catch, bigeye (*Thunnus obesus*) comprised 36% and other species (mainly billfishes and sharks) made up the remaining 30%. During the same period of the previous year yellowfin, bigeye and other species made up 41%, 40 % and 19 % of the total catch respectively.

¹This figure is referring only to the number of logbooks received during the stated period.

²This figure is referring only to number of licenses issued to individual vessels during the stated period and not to the number of vessels with a valid license.

³Same as footnote 1 above

⁴Same as footnote 2 above.

RESUME: Premier semestre 2002

Les données utilisées pour produire les tableaux et figures ci-présentes proviennent des livres de bord remplis quotidiennement par les navires disposant de licences pour la ZEE des Seychelles. Il peut y avoir un délai dans la remise de ces données à la SFA, en particulier pendant et juste après le 2 deuxième trimestre de l'année alors que de nombreux navires pêchent dans le canal de Mozambique. Les lecteurs sont donc avisés que les chiffres ici présentés (surtout les plus récents) sont sujets à révision (habituellement à la hausse) selon l'arrivée de données complémentaires. La date à laquelle la base de données SFA est fermée pour la génération des tableaux est indiquée en tête de chaque tableaux.

SENNEURS

POINTS PRINCIPAUX

- Une prise totale de 295 936 t a été enregistrée dans l'Océan Indien occidental (OIO) pour l'an 2001, résultant de l'activité de 50 navires licenciés par mois. L'effort déployé durant l'année 2001 est 13 871 jours, pour une PUE moyenne de 21.33 t/j.
- Une prise totale de 140 704 t a été enregistrée dans l'Océan Indien Occidental (OIO) pendant la premier semestre 2002, résultant de l'activité de 49 navires licenciés par mois. Pour le même période 2001, 119 479 t a été enregistrée pour une moyenne de 51 navires licenciés par mois. La prise enregistrée pour le première semestre de l'année 2002 a alors augmenté par 18%. Le dernier record des prises pour cette époque de l'année a été enregistré en 2000 quand, 241 710 t de thon ont été capturé. La PUE moyenne enregistrée pour cette période de 2002 était de 22.25 t/j (17.51 t/j en 2001) comparativement au record de 23.81 t/j enregistrée en 1995.

Table I. Détail de la composition spécifique des prises totales du premier semestre de l'année 2001 et 2002.

ESPECES	2001	%	2002	%
ALBACORE (<i>Thunnus albacares</i>)	56 107	47	60 525	43
LISTAO (<i>katsuwonus pelamis</i>)	53 922	45	74 374	53
AUTRES (<i>Thunnus obesus</i> & <i>Thunnus alalunga</i>)	9 450	8	5 805	4
TOTAL	119 479		140 704	

- L'effort a atteint 6 323 jours pour le premier semestre de l'année 2002, à comparer aux 6 824 jours pour la même période de l'année 2001. L'effort déployé durant cette période de l'année 2002 est de 501 jours, soit 7% inférieur à celui de la même période en 2001.

Les lecteurs doivent être avisés que cette composition spécifique des captures ne relève pas d'échantillonnages scientifiques. Elle résulte seulement des estimations portées sur les fiches de pêche par les patrons qui décident de leur allocation par espèce. Elle peut donc être sujette quelques biais.

Il doit être signalé que les chiffres du tableau 3 (Statistiques des transbordements des senneurs par port) représentent les transbordements des navires dont les marées se sont achevées durant le mois spécifié, et non pas durant le mois du transbordement effectif des prises.

- Les transbordements effectués à Victoria au cours de l'année 2001, ont atteint 248 454 t. Pendant le premier semestre de l'année 2002, les transbordements à Victoria étaient de 116 341 t, soit 83% des prises totales, alors qu'ils étaient de 91 622 t, soit 79% des prises totales pour la même période en 2001. Les débarquements effectués à Victoria ont alors augmenté par 27% pendant le premier semestre de 2002.

PALANGRIERS

POINTS PRINCIPAUX

Les lecteurs doivent être avisés que ces statistiques ne représentent qu'une petite proportion de l'activité palangrière dans l'OIO car:

- une grande partie des palangriers pêchant dans l'OIO n'ont pas de licence de pêche pour la ZEE des Seychelles et ne sont donc pas obligés de remettre des informations à la SFA;
- certaines flottilles étrangères remettent des livres de bord à la SFA dont les informations recouvrent l'ensemble de l'océan Indien, alors que d'autres limitent leur fourniture à la seule ZEE Seychelloise.

Les statistiques publiées pour 2001 dans ce bulletin ne concernent que 80 livres de bord réceptionnés à ce jour alors que 241 licences ont été attribuées à 169 bateaux. Pour le premier semestre de 2002, 99 livres de bord avaient été réceptionnés à ce jour, alors que 82 licences avaient été attribuées à 64 bateaux.

- Durant le premier semestre de l'année 2002, les nombres de licence pris par les navires Japonaise a chuté de 24 %. Par ailleurs, aucun navires Sud Coréen n'a pris de licence et les navires Espagnol n'ont pas renouvelé leurs. Les nombres des licences pris par les navires Taiwanaise est en augmentation, passant de 24 à 54.

L'analyse des données disponibles montre que :

- Les prises des palangriers pour 2001 sont maintenant estimées à 5 712 t. L'effort de pêche enregistré s'élève à environ 13.9 millions d'hameçons et une PUE moyenne de 0.41 t/1000 hameçons.
- Pour le premier semestre 2002 on a enregistré un effort de pêche d'environ 4.9 millions d'hameçons pour une prise de 2 606 t soit une PUE moyenne de 0.54 t/1000 hameçons. Les PUE moyennes par nationalité sont de; 0.55 t/1000 hameçons pour la flottille Japonaise, et 0.32 t/1000 hameçons pour les Taiwanaise. Il faut noter que nous attendons d'avantage de livres de bord et donc les statistiques seront révisées des leurs réception.
- La composition spécifique des prises pour le premier semestre de l'année 2002 s'établit ainsi: 34% d'albacore (*Thunnus albacares*), 36% de patudo (*Thunnus obesus*) et les 30% résiduels étant constitués principalement de poissons à rostre et de requins, comparé aux 41% d'albacore (*Thunnus albacares*), 40% de patudo (*Thunnus obesus*) et les 19% résiduels enregistrée pendant la même période de l'année précédente.

RESUMEN: Primer semestre 2002

Los datos utilizados para generar las tablas y figuras que se presentan a continuación se extrajeron de los formularios de captura y esfuerzo (Hojas de Pesca) recogidos en los barcos atuneros con licencia de pesca en la ZEE (Zona Económica Exclusiva) de Seychelles. En ocasiones se produce algún retraso en la recepción de dichas hojas de pesca por parte del SFA (Seychelles Fishing Authority), especialmente durante y justo después del segundo trimestre del año, cuando la mayoría de los barcos faenan en aguas del Canal de Mozambique. Se debe tener en cuenta que muchas de las cifras aquí presentadas (especialmente las más recientes) pueden ser objeto de modificación (generalmente incrementando) una vez que se disponga de más información. La fecha en la que se cierra la base de datos del SFA, previa a la creación de las tablas estadísticas, se muestra en la parte superior de cada tabla.

CERQUEROS

PUNTOS PRINCIPALES

- La captura total en el océano Índico occidental durante el año 2001 fue de 295.936 toneladas. Esta captura fue obtenida por una media de 50 barcos activos por mes. El esfuerzo total reportado por los atuneros cerqueros durante el 2001 fue de 13.871 días, con una captura media de 21,33 toneladas por día.
- Durante el primer semestre de 2002 la flota cerquera atunera con licencia para pescar en aguas de Seychelles, compuesta por una media de 49 barcos por mes, capturó un total de 140.704 toneladas. La captura para el mismo periodo de 2001 fue de 119.479 toneladas, producto de la actividad de una media de 51 cerqueros atuneros con licencia por mes, esta cifra representa un incremento de un 18% con relación al mismo periodo del año anterior. La captura más alta registrada hasta el momento para este periodo se obtuvo en el año 2000, cuando se capturaron 241.710 toneladas de atún. El rendimiento medio registrado para el primer semestre de 2002 fue de 22,25 toneladas/día, y para el mismo periodo de 2001 fue de 17,51 toneladas/día. El rendimiento más alto registrado para este periodo se produjo en 1995 con una captura promedio diaria de 23,81 toneladas.

Tabla 1. Composición por especies de la captura total para el primer semestre de los años 2001 y 2002.

ESPECIES	2001	%	2002	%
RABIL (<i>Thunnus albacares</i>)	56.107	47	60.525	43
LISTADO (<i>katsuwonus pelamis</i>)	53.922	45	74.374	53
OTROS (<i>Thunnus obesus</i> & <i>Thunnus alalunga</i>)	9.450	8	5.805	4
TOTAL	119.479		140.704	

- El número de días de pesca contabilizados para el primer semestre de 2002 fue de 6.323, en el mismo periodo de 2001 se registraron 6.824 días de pesca. El esfuerzo de pesca registrado en esta primera mitad del año 2002 es por tanto inferior en 501 días (7%) al contabilizado para el mismo periodo de 2001.

Los lectores deben tener presente que los datos relativos a la composición por especies que aquí se citan NO están basados en muestreos científicos sino en las estimaciones realizadas por los pescadores que rellenan las hojas de pesca y que deciden las categorías a las que corresponde el pescado capturado. Por tanto dicha información puede resultar sesgada.

Se debe tener presente que las cifras que se muestran en la Tabla 3 (estadísticas de transbordos de la flota cerquera por puerto de transbordo) representan los desembarcos de los barcos cuyas mareas FINALIZARON en el mes indicado, y éste no se corresponde necesariamente con el mes en el que se realizó de hecho la descarga.

- El total transbordado en Victoria para el año 2001 fue de 248.454 toneladas. Durante el primer semestre de 2002 el total transbordado en Victoria fue de 116.341 toneladas, lo que supone un 83% de la captura total de dicho periodo. En el año 2001 se transbordaron en Victoria 91.622 toneladas, representando esta cifra un 79% de la captura total. Durante el año 2002 se registró un incremento de un 27% en el volumen de atún descargado.

PALANGREROS

PUNTOS PRINCIPALES

Debe tenerse en cuenta que las estadísticas que se presentan no reflejan sino una pequeña parte de la actividad de los palangreros en el OIO (Océano Indico Occidental) debido a que:

- No todos los palangreros que pescan en el OIO tienen licencia para pescar en la ZEE de Seychelles y por lo tanto no tienen obligación de informar al SFA.
- Algunas flotas de países extranjeros facilitan al SFA hojas de pesca que cubren su actividad en la totalidad del océano Indico, mientras que otras limitan sus informes a la ZEE de Seychelles.

Las estadísticas publicadas para 2001 proceden de los datos de los 80 cuadernos de pesca recibidos a la fecha de publicación de este boletín, en total se expidieron 241 licencias a 169 buques. Durante el primer semestre de 2002 se recibieron 99 cuadernos de pesca, expidiéndose 82 licencias de pesca a un total de 64 buques.

- Durante el primer semestre de 2002 el número de embarcaciones japonesas que solicitaron licencia descendió en un 24%. Además los barcos de Corea del Sur no solicitaron licencias y los barcos españoles no renovaron las suyas. El número de licencias expedidas a las embarcaciones Taiwanesas se incrementó de 24 a 54.

El análisis de los datos disponibles hasta el momento muestra que:

- La captura total de palangre reportada durante el año 2001 asciende a 5.712 toneladas. Las capturas declaradas corresponden a esfuerzos de pesca del orden de 13,9 millones de anzuelos, lo que supone unos rendimientos medios de 0,41 toneladas por cada mil anzuelos largados.
- La captura total registrada durante el primer semestre de 2002 ascendió a 2.606 toneladas, con 4,9 millones de anzuelos largados y rendimientos medios de 0,54 toneladas por 1.000 anzuelos. La CPUE (captura por unidad de esfuerzo) promedio varió dependiendo de la flota con 0,55 toneladas por 1.000 anzuelos para la flota japonesa y 0,32 toneladas por 1.000 anzuelos para los Taiwaneses. Las cifras presentadas serán revisadas en un futuro cercano, a medida que se reciban más cuadernos de pesca.
- La composición por especies de la captura total registrada durante el primer semestre de 2002 fue de un 34% de rabil, 36% de patudo y un 29% de otras especies. En 2001 fue de 41% de rabil, 40% de patudo y 19% de otras especies.

Definition of terms used

TERMS	DEFINITION
VESSELS LICENSED	Vessels licensed to fish in the Seychelles EEZ.
VESSELS FISHED	Vessels whose log book has been received at SFA and which contains at least one DAY FISHED for the month in question.
DAYS FISHED	Days spent at sea minus days on passage, days adrift due to mechanical breakdown or other work stoppage. This may include days spent in searching even if no fish was actually caught.
Mt	Metric tonne (1000 kg)
CATCH RATE - Purse seine	Metric tonnes per day fished
CATCH RATE - Longline	Metric tonne/1000 hooks
TRANSHIPMENT	Generally the transfer of tuna fish from a catcher vessel to a 'reefer' or transport vessel. This normally takes place in port. This also includes fish landed in Port Victoria, Seychelles for the COI canning factory. Most of this is subsequently re-exported.
COUNTRY OF REGISTRATION	Country in which ownership of the vessel is registered.
FLAG	Country and agreement under which the vessel is managed. Country and Flag are usually the same but can sometimes be different.

PURSE SEINERS

Table 1 shows the catch and effort statistics for all purse seiners combined; Table 2.1 shows statistics for the Spanish fleet; Table 2.2 shows statistics for the French fleet; Table 2.3 statistics for "Other" nationalities. The "Vessels Licensed" may exceed the "Vessels Covered" column if vessels licensed to fish in a particular month have not reported their catch, for whatever reason, by the time the database was closed prior to generation of these tables. This closing date is shown on each table. If vessels which have not fished in the Seychelles EEZ and are not licensed to do so report fishing OUTSIDE the EEZ, then "Vessels Covered" may sometimes exceed "Vessels Licensed".

Total catch for each trip has been taken from records of transshipment whenever complete unloading occurred in Seychelles or the record was otherwise available from another port; otherwise total catch has been estimated from logbooks containing daily catch and effort statistics. The species composition has been estimated from logbooks, but since the latter and transshipment record both give unreliable estimates for the lesser-caught species, bigeye (*Thunnus obesus*) and albacore (*Thunnus alalunga*) are included in the total catch figure and not shown separately. Catches have been estimated in wet weight rather than dry weight.

"Vessels Covered" refers to those vessels for which a logbook has been received containing at least one fishing day during the month or otherwise if a vessel is not fishing and the SFA knows of its activities. "Days Fished" refers to those days spent at sea, excluding days drifting due to mechanical breakdown or other work stoppages; days spent drifting by flotsam or fish aggregating devices (FADs) while waiting to make a set are included in "Days Fished".

The Spanish fleet caught the most fish during the first semester of 2002 with 59,316 Mt compared to 49,171 Mt for the same period in 2001. The French fleet caught some 34,915 Mt, (31,400 Mt in 2001). The remaining 46,473 Mt (38,908 Mt in 2001) were taken by vessels representing five different countries. They have been classed under the common title of "Other Countries" (see table 6 - 8). During the first semester of 2002 the total catch reported comprises of 53% Skipjack (*Katsuwonus pelamis*), 43% yellowfin (*Thunnus albacares*) and 4% other species mainly bigeye (*Thunnus obesus*) and albacore (*Thunnus alalunga*).

Table II shows the catch composition as percentage of total catch by country for the first semester of 2001 and 2002.

COUNTRY	First Semester 2001			First Semester 2002		
	YFT	SKJ	OTH	YFT	SKJ	OTH
Spain	50 %	46 %	4 %	42 %	55 %	3 %
France	46 %	41 %	13 %	46 %	49 %	5 %
Other countries	44 %	49 %	7 %	42 %	54 %	4 %

Note: YFT (Thunnus albacares), SKJ (Katsuwonus pelamis), OTH is considered as "OTHER SPECIES" which include Bigeye (Thunnus obesus) and Albacore (Thunnus alalunga).

Historical data are periodically revised: statistics in the present volume supersede those previously published.

TABLE 1.

Catch Statistics for Purse Seiners in the Western Indian Ocean

Database closed on 10/01/2003

(Units: catch Mt, percentages in brackets, catch rates Mt/day)

Year: 2001

MONTH	VESSELS LICENSED	VESSELS COVERED	DAYS FISHED	CATCH RATE	YELLOWFIN	SKIPJACK	TOTAL	CUMUL TOTAL
Jan	53	48	1300	21.40	22522 (81)	3802 (14)	27821	27821
Feb	52	48	1043	22.87	15479 (65)	6206 (26)	23857	51678
Mar	51	46	1210	20.79	5710 (23)	17331 (69)	25158	76836
Apr	51	45	1102	15.04	3148 (19)	11963 (72)	16571	93407
May	49	44	1108	12.15	3851 (29)	8674 (64)	13464	106871
Jun	49	44	1061	11.88	5397 (43)	5946 (47)	12608	119479
Jul	49	46	1184	15.60	8169 (44)	9105 (49)	18467	137946
Aug	48	45	1163	26.71	7632 (25)	21022 (68)	31061	169007
Sep	48	47	1166	34.31	5822 (15)	30901 (77)	40006	209013
Oct	50	49	1206	29.65	7600 (21)	26079 (73)	35759	244772
Nov	50	48	1165	23.39	7288 (27)	18282 (67)	27248	272020
Dec	50	44	1163	20.56	15795 (66)	7358 (31)	23916	295936
				13871	21.33	108413 (37)	166669 (56)	295936

Year: 2002

MONTH	VESSELS LICENSED	VESSELS COVERED	DAYS FISHED	CATCH RATE	YELLOWFIN	SKIPJACK	TOTAL	CUMUL TOTAL
Jan	51	47	1267	15.16	15387 (80)	3232 (17)	19202	19202
Feb	49	46	1017	31.86	12353 (38)	18372 (57)	32399	51601
Mar	51	44	1015	28.33	11015 (38)	16588 (58)	28751	80352
Apr	49	45	1094	18.28	4413 (22)	15018 (75)	19998	100350
May	49	45	1091	13.61	7159 (48)	7109 (48)	14846	115195
Jun	49	39	839	30.40	10198 (40)	14055 (55)	25508	140704
				6323	22.25	60525 (43)	74374 (53)	140704

TABLE 2. 1. Statistics for Purse Seiners in the Western Indian Ocean by Country
Database closed on 10/01/2003

(Units: catch Mt, percentages in brackets, catch rates Mt/day)

Country: SPAIN Year: 2001

MONTH	VESSELS LICENSED	VESSELS COVERED	DAYS FISHED	CATCH RATE	YELLOWFIN	SKIPJACK	TOTAL	CUMUL TOTAL
Jan	18	17	476	26.33	11255 (90)	1004 (8)	12533	12533
Feb	18	17	405	25.30	6819 (67)	2910 (28)	10245	22778
Mar	18	17	453	22.17	1843 (18)	7526 (75)	10043	32821
Apr	18	17	444	13.83	1158 (19)	4759 (78)	6139	38960
May	18	17	453	13.69	1748 (28)	4216 (68)	6201	45161
Jun	18	15	348	11.52	1529 (38)	2088 (52)	4010	49171
Jul	18	16	403	18.02	3068 (42)	3717 (51)	7261	56432
Aug	18	15	396	29.14	2313 (20)	8336 (72)	11539	67971
Sep	18	17	420	41.14	3179 (18)	12785 (74)	17280	85251
Oct	18	17	456	34.53	2576 (16)	12423 (79)	15745	100996
Nov	18	17	431	26.01	3824 (34)	6524 (58)	11209	112205
Dec	18	17	448	25.29	6642 (61)	3786 (35)	10882	123087
				5133	23.98	45954 (37)	70074 (57)	123087

Country: SPAIN Year: 2002

MONTH	VESSELS LICENSED	VESSELS COVERED	DAYS FISHED	CATCH RATE	YELLOWFIN	SKIPJACK	TOTAL	CUMUL TOTAL
Jan	19	17	462	21.82	7778 (77)	1926 (19)	10082	10082
Feb	18	16	359	37.11	4393 (33)	8386 (63)	13323	23405
Mar	18	15	327	35.41	2966 (26)	8298 (72)	11580	34985
Apr	18	14	314	24.50	1215 (16)	6233 (81)	7693	42678
May	18	14	347	19.65	3771 (55)	2863 (42)	6817	49495
Jun	18	13	270	36.37	4530 (46)	4736 (48)	9821	59316
				2079	28.53	24653 (42)	32442 (55)	59316

TABLE 2. 2. Statistics for Purse Seiners in the Western Indian Ocean by Country
Database closed on 10/01/2003
 (Units: catch Mt, percentages in brackets, catch rates Mt/day)

Country: FRANCE Year: 2001

MONTH	VESSELS LICENSED	VESSELS COVERED	DAYS FISHED	CATCH RATE	YELLOWFIN	SKIPJACK	TOTAL	CUMUL TOTAL
Jan	17	15	380	13.96	3438 (65)	1207 (23)	5306	5306
Feb	18	16	316	22.33	5474 (78)	709 (10)	7056	12362
Mar	18	15	379	16.83	1926 (30)	3534 (55)	6379	18741
Apr	18	14	325	15.24	1259 (25)	3066 (62)	4954	23695
May	16	13	306	13.71	1174 (28)	2452 (58)	4196	27891
Jun	15	12	315	11.14	1368 (39)	1488 (42)	3509	31400
Jul	14	12	299	14.86	2718 (61)	1505 (34)	4444	35844
Aug	14	12	303	22.19	1709 (25)	4638 (69)	6724	42568
Sep	14	12	298	26.68	574 (7)	6945 (87)	7950	50518
Oct	14	13	284	26.47	2347 (31)	4299 (57)	7518	58036
Nov	14	13	323	20.67	1236 (19)	4944 (74)	6675	64711
Dec	14	11	285	17.45	3737 (75)	1065 (21)	4973	69684
				3813	18.28	26960 (39)	35852 (51)	69684

Country: FRANCE Year: 2002

MONTH	VESSELS LICENSED	VESSELS COVERED	DAYS FISHED	CATCH RATE	YELLOWFIN	SKIPJACK	TOTAL	CUMUL TOTAL
Jan	14	13	324	7.70	1980 (79)	424 (17)	2495	2495
Feb	13	13	299	25.14	4367 (58)	2533 (34)	7516	10011
Mar	15	14	338	20.77	3979 (57)	2629 (37)	7020	17031
Apr	15	15	383	16.12	1517 (25)	4461 (72)	6173	23204
May	15	15	379	10.02	1414 (37)	2224 (59)	3799	27003
Jun	15	14	321	24.65	2923 (37)	4702 (59)	7912	34915
				2044	17.08	16180 (46)	16973 (49)	34915

TABLE 2.3. Statistics for Purse Seiners in the Western Indian Ocean by Country
Database closed on 10/01/2003
 (Units: catch Mt, percentages in brackets, catch rates Mt/day)

Country: Other countries Year: 2001

MONTH	VESSELS LICENSED	VESSELS COVERED	DAYS FISHED	CATCH RATE	YELLOWFIN	SKIPJACK	TOTAL	CUMUL TOTAL	
Jan	18	16	444	22.48	7829 (78)	1591 (16)	9982	9982	
Feb	16	18	322	20.36	3186 (49)	2587 (39)	6556	16538	
Mar	15	14	378	23.11	1941 (22)	6271 (72)	8736	25274	
Apr	15	14	333	16.45	731 (13)	4138 (76)	5478	30752	
May	15	14	349	8.79	929 (30)	2006 (65)	3067	33819	
Jun	16	17	398	12.79	2500 (49)	2370 (47)	5089	38908	
Jul	17	18	482	14.03	2383 (35)	3883 (57)	6762	45670	
Aug	16	18	464	27.58	3610 (28)	8048 (63)	12798	58468	
Sep	16	18	448	32.98	2069 (14)	11171 (76)	14776	73244	
Oct	18	19	466	26.82	2677 (21)	9357 (75)	12496	85740	
Nov	18	18	411	22.78	2228 (24)	6814 (73)	9364	95104	
Dec	18	16	430	18.75	5416 (67)	2507 (31)	8061	103165	
4925					20.95	35499 (34)	60743 (59)	103165	

Country: Other countries Year: 2002

MONTH	VESSELS LICENSED	VESSELS COVERED	DAYS FISHED	CATCH RATE	YELLOWFIN	SKIPJACK	TOTAL	CUMUL TOTAL	
Jan	18	17	481	13.78	5629 (85)	882 (13)	6626	6626	
Feb	18	17	359	32.20	3593 (31)	7452 (64)	11561	18187	
Mar	18	15	350	29.00	4071 (40)	5661 (56)	10151	28338	
Apr	16	16	397	15.45	1681 (27)	4325 (71)	6132	34470	
May	16	16	365	11.59	1973 (47)	2022 (48)	4229	38699	
Jun	16	12	248	31.35	2744 (35)	4617 (59)	7774	46473	
2200					21.12	19691 (42)	24959 (54)	46473	

TABLE 3. Purse Seiner Transshipment Statistics by Harbour of Transshipment
Database closed on 10/01/2003
 (Units: catch Mt)

Port: VICTORIA, SEYCHELLES Year: 2001

MONTH	No. of SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS	TOTAL	CUMUL TOTAL
Jan	33	14039	3104	339	159	2479	20120	20120
Feb	40	16627	4760	621	152	1197	23357	43477
Mar	30	9399	6269	1028	297	4678	21671	65148
Apr	16	1653	3335	218	13	4255	9474	74622
May	17	1854	3388	412	18	318	5990	80612
Jun	21	4555	3441	293	96	2625	11010	91622
Jul	27	4301	5168	461	72	2774	12776	104398
Aug	34	5763	11767	697	225	6879	25331	129729
Sep	31	2995	13604	485	1	13064	30149	159878
Oct	42	4221	11232	419	0	21552	37424	197302
Nov	33	2320	7018	286	0	20684	30308	227610
Dec	33	2683	3320	183	1	14657	20844	248454
Total		70410	76406	5442	1034	95162	248454	

Port: VICTORIA, SEYCHELLES Year: 2002

MONTH	No. of SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS	TOTAL	CUMUL TOTAL
Jan	30	8980	3139	142	6	5161	17428	17428
Feb	35	11366	4841	255	2	10079	26543	43971
Mar	30	7336	5428	527	132	12245	25668	69639
Apr	22	2960	4720	286	53	8229	16248	85887
May	21	1304	2721	266	7	4019	8317	94204
Jun	31	7118	4472	346	43	10158	22137	116341
Total		39064	25321	1822	243	49891	116341	

Port: ANTSIRANANA, M'GASCAR Year: 2001

MONTH	No. of SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS	TOTAL	CUMUL TOTAL
Feb	1	0	0	0	0	0	0	0
Mar	4	392	606	125	0	1727	2850	2850
Apr	16	40	174	7	1	10468	10690	13540
May	19	1465	2456	739	40	3976	8676	22216
Jun	3	484	794	11	23	162	1474	23690
Jul	2	0	0	0	0	355	355	24045
Aug	1	0	0	0	0	106	106	24151
Sep	1	0	0	0	0	1027	1027	25178
Nov	1	0	0	0	0	1065	1065	26243
Dec	1	0	0	0	0	1266	1266	27509
Total		2381	4030	882	64	20152	27509	

Port: ANTSIRANANA, M'GASCAR Year: 2002

MONTH	No. of SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS	TOTAL	CUMUL TOTAL
Feb	4	499	866	103	0	809	2277	2277
Mar	8	344	1789	53	0	4128	6314	8591
Apr	8	281	1504	96	0	2925	4806	13397
May	7	350	1097	65	1	1024	2537	15934
Total		1474	5256	317	1	8886	15934	

Port: MOMBASA, KENYA**Year: 2001**

MONTH	No. of SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS	TOTAL	CUMUL TOTAL
Feb	1	0	0	0	0	1624	1624	1624
May	1	0	0	0	0	686	686	2310
Jun	2	0	0	0	0	1205	1205	3515
Jul	1	0	0	0	0	1020	1020	4535
Aug	1	0	0	0	0	855	855	5390
Sep	2	0	0	0	0	2176	2176	7566
Nov	1	0	0	0	0	1387	1387	8953
Total		0	0	0	0	8953	8953	

Port: MOMBASA, KENYA**Year: 2002**

MONTH	No. of SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS	TOTAL	CUMUL TOTAL
Feb	2	0	0	0	0	1875	1875	1875
Mar	1	73	208	0	0	50	331	2206
Apr	1	0	0	0	0	0	0	2206
May	1	0	0	0	0	624	624	2830
Jun	4	786	389	39	0	833	2047	4877
Total		859	597	39	0	3382	4877	

TABLE 4.

Purse Seiners Active in the Western Indian Ocean by Country of registration
Database closed on 10/01/2003

Year 2001

Country	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BELIZE	5	0	0	0	0	0	0	0	0	0	0	0
FRANCE	15	16	15	14	13	12	12	12	12	12	12	10
FRANCE (MAYOTTE)	0	0	0	0	0	1	2	2	2	3	3	3
IRAN	0	0	0	0	1	2	2	2	2	3	3	3
ITALY	1	1	1	1	1	1	1	1	1	1	1	1
NETHERLANDS ANTILLES	4	4	4	4	3	4	4	4	4	4	4	4
PANAMA	1	1	1	1	1	1	1	1	1	1	1	1
SEYCHELLES	5	9	8	8	8	8	8	8	8	7	7	5
SPAIN	17	17	17	17	17	15	16	15	17	17	17	17
Total	48	48	46	45	44	44	46	45	47	48	48	44

Year 2002

Country	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
FRANCE	13	13	14	15	15	14						
FRANCE (MAYOTTE)	2	2	1	0	0	0						
IRAN	3	3	3	3	3	1						
ITALY	1	1	1	1	1	1						
NETHERLANDS ANTILLES	4	4	4	4	4	2						
PANAMA	1	1	1	1	1	1						
SEYCHELLES	6	6	5	7	7	7						
SPAIN	17	16	15	14	14	13						
Total	47	46	44	45	45	39						

TABLE 5. Purse Seiners Active in the Western Indian Ocean
Database closed on 10/01/2003

Year: 2001

Code Seiner	ISO Country Code												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
543 IZARO (IBERIC)	BEL	---	---	---	---	---	---	---	---	---	---	---	---
550 ALACRAN 2	BEL	---	---	---	---	---	---	---	---	---	---	---	---
571 XIXILI	BEL	---	---	---	---	---	---	---	---	---	---	---	---
599 ERROXAPE	BEL	---	---	---	---	---	---	---	---	---	---	---	---
634 DEMIKU	BEL	---	---	---	---	---	---	---	---	---	---	---	---
214 ALBACORA 4	ESP	---	---	---	---	---	---	---	---	---	---	---	---
264 TXORI URDIN	ESP	---	---	---	---	---	---	---	---	---	---	---	---
347 ALBACORA 16	ESP	---	---	---	---	---	---	---	---	---	---	---	---
349 TXORI ZURI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
355 JUAN RAMON EGANA	ESP	---	---	---	---	---	---	---	---	---	---	---	---
356 MAR DE SERGIO	ESP	---	---	---	---	---	---	---	---	---	---	---	---
454 FELIPE RUANO	ESP	---	---	---	---	---	---	---	---	---	---	---	---
458 CAMPOLIBRE ALAI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
459 MONTELAPE	ESP	---	---	---	---	---	---	---	---	---	---	---	---
460 MONTEALEGRE	ESP	---	---	---	---	---	---	---	---	---	---	---	---
488 TXORI BERRI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
507 PLAYA DE BAKIO	ESP	---	---	---	---	---	---	---	---	---	---	---	---
521 ALBACAN	ESP	---	---	---	---	---	---	---	---	---	---	---	---
530 ELAI ALAI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
570 DONIENE	ESP	---	---	---	---	---	---	---	---	---	---	---	---
615 PLAYA DE ANZORAS	ESP	---	---	---	---	---	---	---	---	---	---	---	---
629 TXORI TOKI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
693 TALENDUIC	FRA	---	---	---	---	---	---	---	---	---	---	---	---
701 CAP ST VINCENT 2	FRA*	---	---	---	---	---	---	---	---	---	---	---	---
702 STERENN 2	FRA*	---	---	---	---	---	---	---	---	---	---	---	---
274 ROSPICO	FRA	---	---	---	---	---	---	---	---	---	---	---	---
296 TREVIGNON II	FRA	---	---	---	---	---	---	---	---	---	---	---	---
305 HUON DE KERMADEC	FRA	---	---	---	---	---	---	---	---	---	---	---	---
306 TRES CAO	FRA	---	---	---	---	---	---	---	---	---	---	---	---
327 KERSAINT	FRA	---	---	---	---	---	---	---	---	---	---	---	---
328 ARMEN	FRA	---	---	---	---	---	---	---	---	---	---	---	---
334 PENDRUC	FRA	---	---	---	---	---	---	---	---	---	---	---	---
483 CAP BOJADOR	FRA	---	---	---	---	---	---	---	---	---	---	---	---
490 GUEOTEC	FRA	---	---	---	---	---	---	---	---	---	---	---	---
491 AVEL VOR	FRA	---	---	---	---	---	---	---	---	---	---	---	---
492 GUERIDEN	FRA	---	---	---	---	---	---	---	---	---	---	---	---
572 AVEL VAD	FRA	---	---	---	---	---	---	---	---	---	---	---	---
579 VIA LIBECCIO	FRA	---	---	---	---	---	---	---	---	---	---	---	---
600 CAP SAINTE MARIE	FRA	---	---	---	---	---	---	---	---	---	---	---	---
648 CAP ST VINCENT 2	FRA	---	---	---	---	---	---	---	---	---	---	---	---
652 J.L RAPHAEL 2	FRA	---	---	---	---	---	---	---	---	---	---	---	---
679 MEN GOE	FRA	---	---	---	---	---	---	---	---	---	---	---	---
611 AZADEGAN 3	IRN	---	---	---	---	---	---	---	---	---	---	---	---
688 HAVOUR 1	IRN	---	---	---	---	---	---	---	---	---	---	---	---
689 HAVOUR 2	IRN	---	---	---	---	---	---	---	---	---	---	---	---
595 TORRE GIULIA	ITA	---	---	---	---	---	---	---	---	---	---	---	---
601 INTER TUNA DOS	ANT	---	---	---	---	---	---	---	---	---	---	---	---
610 INTER TUNA UNO	ANT	---	---	---	---	---	---	---	---	---	---	---	---
633 ARTZA	ANT	---	---	---	---	---	---	---	---	---	---	---	---
674 INTER TUNA TRES	ANT	---	---	---	---	---	---	---	---	---	---	---	---
351 TXORI AUNDI	PAN	---	---	---	---	---	---	---	---	---	---	---	---
590 VIA GWALARN	SYC	---	---	---	---	---	---	---	---	---	---	---	---
591 MEN CREN	SYC	---	---	---	---	---	---	---	---	---	---	---	---
592 MEN GOE	SYC	---	---	---	---	---	---	---	---	---	---	---	---
593 TALENDUIC	SYC	---	---	---	---	---	---	---	---	---	---	---	---
635 ALBACORA 6	SYC	---	---	---	---	---	---	---	---	---	---	---	---

* French vessels from Mayotte operating under private agreements.

Year: 2001 (continued)

680	XIXILI	SYC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
681	ALACRAN	SYC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
682	ERROXAPE	SYC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
683	IZARO	SYC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
690	DEMIKU	SYC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Year: 2002

Code	Seiner	ISO Country Code	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
214	ALBACORA 4	ESP	---	---	---	---	---	---	---	---	---	---	---	---
264	TXORI URDIN	ESP	---	---	---	---	---	---	---	---	---	---	---	---
347	ALBACORA 16	ESP	---	---	---	---	---	---	---	---	---	---	---	---
349	TXORI ZURI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
355	JUAN RAMON EGANA	ESP	---	---	---	---	---	---	---	---	---	---	---	---
356	MAR DE SERGIO	ESP	---	---	---	---	---	---	---	---	---	---	---	---
454	FELIPE RUANO	ESP	---	---	---	---	---	---	---	---	---	---	---	---
458	CAMPOLIBRE ALAI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
459	MONTELAPE	ESP	---	---	---	---	---	---	---	---	---	---	---	---
460	MONTEALEGRE	ESP	---	---	---	---	---	---	---	---	---	---	---	---
488	TXORI BERRI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
507	PLAYA DE BAKIO	ESP	---	---	---	---	---	---	---	---	---	---	---	---
521	ALBACAN	ESP	---	---	---	---	---	---	---	---	---	---	---	---
530	ELAI ALAI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
570	DONIENE	ESP	---	---	---	---	---	---	---	---	---	---	---	---
615	PLAYA DE ANZORAS	ESP	---	---	---	---	---	---	---	---	---	---	---	---
629	TXORI TOKI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
693	TALENDUIC	FRA	---	---	---	---	---	---	---	---	---	---	---	---
701	CAP ST VINCENT 2	FRA*	---	---	---	---	---	---	---	---	---	---	---	---
702	STERENN 2	FRA*	---	---	---	---	---	---	---	---	---	---	---	---
706	CAP ST VINCENT 2	FRA	---	---	---	---	---	---	---	---	---	---	---	---
305	HUON DE KERMADEC	FRA	---	---	---	---	---	---	---	---	---	---	---	---
306	TRESCAO	FRA	---	---	---	---	---	---	---	---	---	---	---	---
327	KERSAINT	FRA	---	---	---	---	---	---	---	---	---	---	---	---
328	ARMEN	FRA	---	---	---	---	---	---	---	---	---	---	---	---
334	PENDRUC	FRA	---	---	---	---	---	---	---	---	---	---	---	---
483	CAP BOJADOR	FRA	---	---	---	---	---	---	---	---	---	---	---	---
490	GUEOTEC	FRA	---	---	---	---	---	---	---	---	---	---	---	---
491	AVEL VOR	FRA	---	---	---	---	---	---	---	---	---	---	---	---
492	GUERIDEN	FRA	---	---	---	---	---	---	---	---	---	---	---	---
572	AVEL VAD	FRA	---	---	---	---	---	---	---	---	---	---	---	---
600	CAP SAINTE MARIE	FRA	---	---	---	---	---	---	---	---	---	---	---	---
679	MEN GOE	FRA	---	---	---	---	---	---	---	---	---	---	---	---
703	STERENN 2	FRA	---	---	---	---	---	---	---	---	---	---	---	---
611	AZADEGAN 3	IRN	---	---	---	---	---	---	---	---	---	---	---	---
688	HAVOUR 1	IRN	---	---	---	---	---	---	---	---	---	---	---	---
689	HAVOUR 2	IRN	---	---	---	---	---	---	---	---	---	---	---	---
595	TORRE GIULIA	ITA	---	---	---	---	---	---	---	---	---	---	---	---
601	INTER TUNA DOS	ANT	---	---	---	---	---	---	---	---	---	---	---	---
610	INTER TUNA UNO	ANT	---	---	---	---	---	---	---	---	---	---	---	---
633	ARTZA	ANT	---	---	---	---	---	---	---	---	---	---	---	---
674	INTER TUNA TRES	ANT	---	---	---	---	---	---	---	---	---	---	---	---
351	TXORI AUNDI	PAN	---	---	---	---	---	---	---	---	---	---	---	---
591	MEN CREN	SYC	---	---	---	---	---	---	---	---	---	---	---	---
635	ALBACORA 6	SYC	---	---	---	---	---	---	---	---	---	---	---	---
680	XIXILI	SYC	---	---	---	---	---	---	---	---	---	---	---	---
681	ALACRAN	SYC	---	---	---	---	---	---	---	---	---	---	---	---
682	ERROXAPE	SYC	---	---	---	---	---	---	---	---	---	---	---	---
683	IZARO	SYC	---	---	---	---	---	---	---	---	---	---	---	---
690	DEMIKU	SYC	---	---	---	---	---	---	---	---	---	---	---	---

* French vessels from Mayotte operating under private agreements.

TABLE 6. Comparative statistics of catch by purse seiners per nation in the Western Indian Ocean
Database closed on 10/01/2003
 (Units: Mt)

Year 2001

MONTH	NETH. ANTI	FRANCE	SEYCHELLES	SPAIN	OTHERS ¹	TOTAL
Jan	4206	5306	1947	12533	3829	27821
Feb	1379	7056	3229	10245	1948	23857
Mar	2481	6379	5011	10043	1244	25158
Apr	1737	4954	2883	6139	858	16571
May	1344	4196	1372	6201	351	13464
Jun	1999	3509	2212	4010	878	12608
Jul	2572	4444	2625	7261	1565	18467
Aug	4215	6724	5204	11539	3379	31061
Sep	4636	7950	6682	17280	3458	40006
Oct	3333	7518	4816	15745	4347	35759
Nov	4078	6675	3448	11209	1838	27248
Dec	2546	4973	2457	10882	3058	23916
Total	34526	69684	41886	123087	26753	295936

Year 2002

MONTH	NETH. ANTI	FRANCE	SEYCHELLES	SPAIN	OTHERS ²	TOTAL
Jan	2213	495	2667	10082	1746	19203
Feb	3958	7516	4201	13323	3402	32400
Mar	3941	7020	2421	11580	3789	28751
Apr	1934	6173	3235	7693	963	19998
May	612	3799	2612	6817	1005	14845
Jun	1853	7912	4753	9821	1168	25507
TOTAL	14511	34915	19889	59316	12073	140704

¹Since space is a limiting factor in Tables 6 – 8, flag country appearing in these tables are included based on their catch totals. The remaining flags are classed under "OTHERS". Flag countries with only one vessel are automatically placed under "OTHERS" to preserve the confidentiality of data pertaining to the vessel. In 2001 "OTHERS" includes Iran, Italy, Belize, Panama and Mayotte (French Private).

²For the same reason as in footnote 1 above the class "OTHERS" have been included. During the 2002 "OTHERS" includes Iran, Italy, Panama and Mayotte (French Private).

TABLE 7. Comparative statistics of effort by purse seiners per nation in the Western Indian Ocean
Database closed on 10/01/2003
(Units: Fishing Day)

Year 2001

MONTH	NETH. ANTI	FRANCE	SEYCHELLES	SPAIN	OTHERS	TOTAL
Jan	116	380	136	476	192	1300
Feb	91	316	160	405	71	1043
Mar	115	379	220	453	43	1210
Apr	94	325	184	444	55	1102
May	90	306	188	453	71	1108
Jun	80	315	191	348	127	1061
Jul	109	299	215	403	158	1184
Aug	102	303	193	396	169	1163
Sep	101	298	201	420	146	1166
Oct	96	284	209	456	161	1206
Nov	105	323	153	431	153	1165
Dec	105	285	140	448	185	1163
TOTAL	1204	3813	2190	5133	1531	13871

Year 2002

MONTH	NETH. ANTI	FRANCE	SEYCHELLES	SPAIN	OTHERS	TOTAL
Jan	114	324	171	462	196	1267
Feb	98	299	112	359	149	1017
Mar	97	338	114	327	139	1015
Apr	108	383	182	314	107	1094
May	62	379	192	347	111	1091
Jun	51	321	152	270	45	839
TOTAL	530	2044	923	2079	747	6323

**TABLE 8. Comparative CPUE of purse seiners by nation
in the Western Indian Ocean
Database closed on 10/01/2003
(Units: Mt/Fishing Day)**

Year 2001

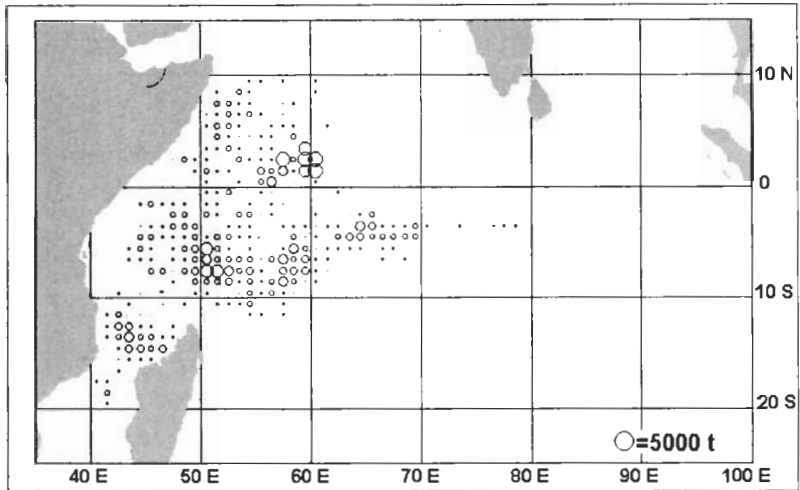
MONTH	NETH. ANTI	FRANCE	SEYCHELLES	SPAIN	OTHERS	TOTAL
Jan	36.26	13.96	13.71	26.54	19.94	21.40
Feb	15.15	22.33	18.67	25.30	27.44	22.87
Mar	21.57	16.83	22.78	22.17	28.93	20.79
Apr	18.48	15.24	15.67	13.83	15.60	15.04
May	14.93	13.71	7.30	13.69	4.94	12.15
Jun	24.99	11.14	11.58	11.52	6.91	11.88
Jul	23.60	14.86	12.21	18.02	9.91	15.60
Aug	41.32	22.19	26.96	29.14	19.99	26.71
Sep	45.90	26.68	33.24	41.14	23.68	34.31
Oct	34.72	26.85	23.04	34.53	27.00	29.65
Nov	38.84	19.78	22.54	26.01	12.01	23.39
Dec	24.25	17.60	17.55	25.62	16.53	20.56
TOTAL	28.68	18.22	18.98	24.11	17.47	21.33

Year 2002

MONTH	NETH. ANTI	FRANCE	SEYCHELLES	SPAIN	OTHERS	TOTAL
Jan	19.41	13.96	13.71	26.54	13.68	15.16
Feb	40.39	22.33	18.67	25.30	40.70	31.86
Mar	40.63	16.83	22.78	22.17	46.27	28.33
Apr	17.91	15.24	15.67	13.83	0.00	18.28
May	9.87	13.71	7.30	13.69	14.05	13.61
Jun	36.33	11.14	11.58	11.52	23.67	30.40
TOTAL	27.38	18.22	18.98	24.11	16.16	22.25

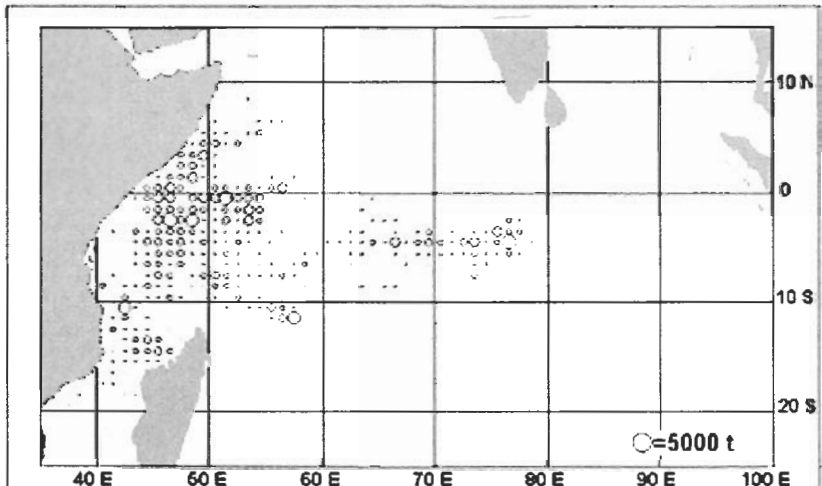
MAP 1. FISHING GROUNDS EXPLOITED BY PURSE SEINERS IN THE WESTERN INDIAN OCEAN BY 1° SQUARE

First Quarter 2001



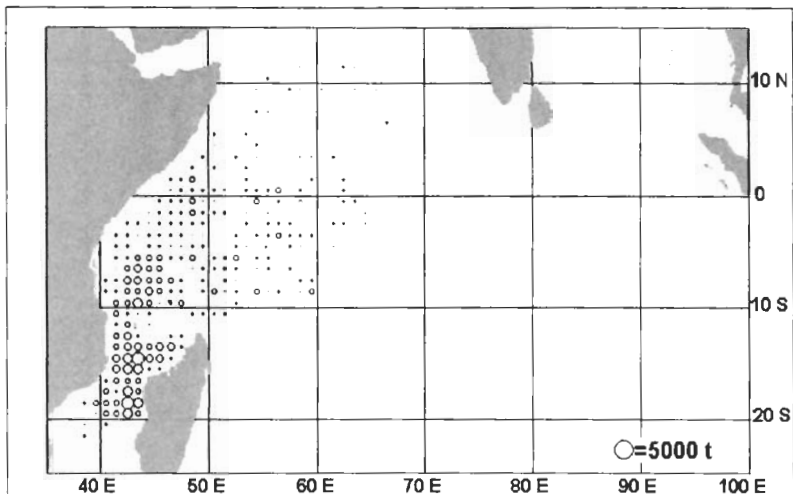
MAP 2. FISHING GROUNDS EXPLOITED BY PURSE SEINERS IN THE WESTERN INDIAN OCEAN BY 1° SQUARE

First Quarter 2002



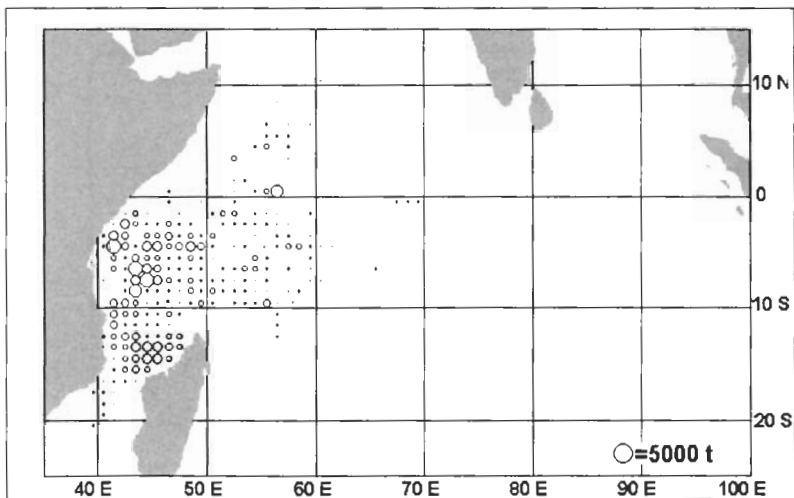
MAP 3. FISHING GROUNDS EXPLOITED BY PURSE SEINERS IN THE WESTERN INDIAN OCEAN BY 1° SQUARE

Second Quarter 2001

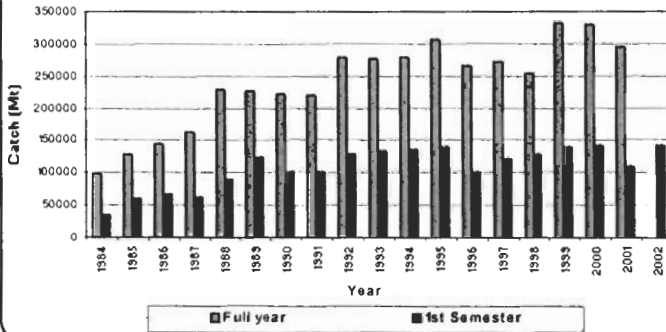


MAP 4. FISHING GROUNDS EXPLOITED BY PURSE SEINERS IN THE WESTERN INDIAN OCEAN BY 1° SQUARE

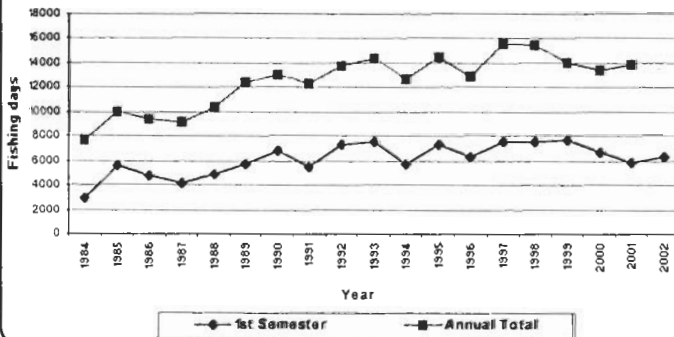
Second Quarter 2002



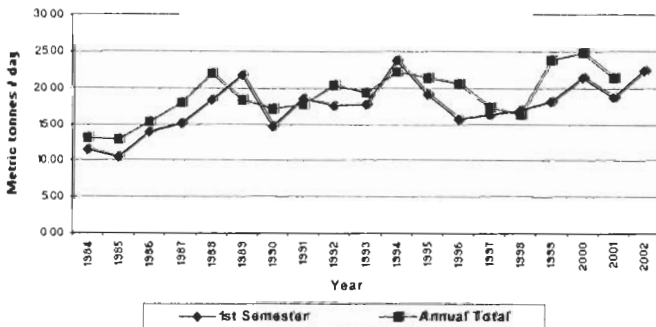
CATCH 1984 - JUNE 2002
PURSESEINERS HOLDING SEYCHELLES LICENSE



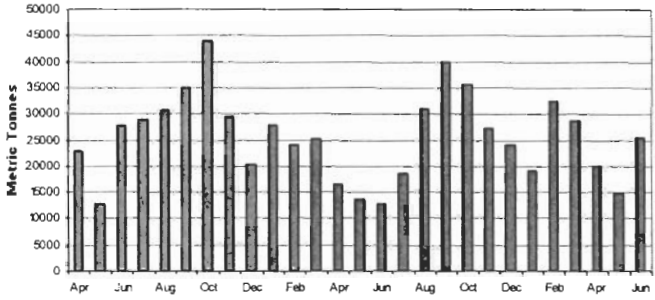
FISHING EFFORT 1984 - JUNE 2002
PURSESEINERS HOLDING SEYCHELLES LICENSE



CPUE 1984 - JUNE 2002
PURSESEINERS HOLDING SEYCHELLES LICENSE

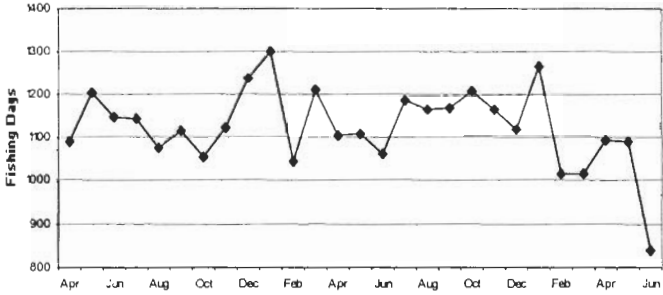


W/O CATCH LAST 27 MONTHS
PURSE SEINE



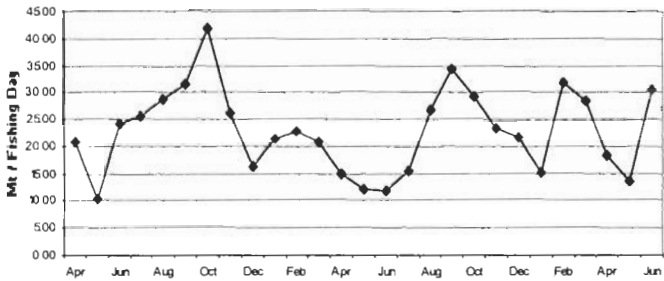
Apr 2000 - Jun 2002

W/O EFFORT LAST 27 MONTHS
PURSE SEINE



Apr 2000 - Jun 2002

W/O CPUE : LAST 27 MONTHS
PURSE SEINE



Apr 2000 - Jun 2002

Longline

Table 9 provides the summary of the reported catch for the year 2001 and for the first semester of 2002 respectively.

Tables 10.1, 10.2, 10.3, 10.4 and 10.5 show the longliners catch for the Japanese, Taiwanese, Taiwanese (operating from Port Victoria), Seychelles and the "Other"* fleets respectively.

Graphs "**CATCH: LAST 27 MONTHS**", "**EFFORT: LAST 27 MONTHS**" and "**CPUE: LAST 27 MONTHS**" illustrate the catch, effort and CPUE of longliners for the last 27 months.

Map 5 shows the fishing effort of longliners by 1° squares in the WIO for the whole year 2001. Maps 6 and 7 illustrates the fishing effort of longliners by 1° squares in the WIO for the first semester of the year 2001 and 2002 respectively.

* "Other" are referring to nationalities having only few licensed vessels. During 2001 "Other" includes vessels from Mauritius, South Korea, Cambodia, Spain and Portugal.

TABLE 9.0 Summary of longliner catch in the Western Indian Ocean
Database closed on 10/01/2003
 (Units: catch Mt, percentage in brackets, catch rates Mt/1000 hooks)

Year: 2001

MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS FISHED	CATCH RATE	YELLOWFIN	BIGEYE	OTHERS	TOTAL
JAN	101	33	2005452	0.274	233 (43)	210 (38)	105 (19)	548
FEB	83	28	1546907	0.260	127 (32)	185 (46)	89 (22)	401
MAR	82	27	1783729	0.387	280 (41)	313 (45)	98 (14)	691
APR	81	22	1341418	0.406	224 (41)	250 (46)	70 (13)	544
MAY	58	16	905710	0.452	158 (39)	142 (35)	109 (26)	409
JUN	44	8	434180	0.485	121 (58)	34 (16)	55 (26)	210
JUL	34	9	566890	0.534	120 (40)	56 (18)	127 (42)	303
AUG	27	8	474330	0.647	123 (40)	67 (22)	117 (38)	307
SEP	28	13	769660	0.563	190 (44)	90 (21)	152 (35)	432
OCT	50	22	1413266	0.430	303 (50)	141 (23)	164 (27)	608
NOV	93	20	1244970	0.385	206 (43)	153 (32)	120 (25)	479
DEC	156	23	1385924	0.563	428 (55)	236 (30)	116 (15)	780
Total			13872436	0.412	2513 (44)	1877 (33)	1322 (23)	5712

Year: 2002

MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS FISHED	CATCH RATE	YELLOWFIN	BIGEYE	OTHERS	TOTAL
JAN	159	22	1216393	0.514	311 (50)	255 (41)	59 (9)	625
FEB	141	25	864749	0.439	108 (28)	123 (32)	149 (39)	380
MAR	138	24	1015178	0.487	180 (36)	150 (30)	164 (33)	494
APR	125	22	910651	0.681	160 (26)	287 (46)	173 (28)	620
MAY	126	22	533532	0.733	104 (27)	124 (32)	163 (42)	391
JUN	80	16	316450	0.303	24 (25)	22 (23)	50 (52)	96
Total			4856953	0.537	887 (34)	923 (36)	742 (30)	2606

TABLE 10.1 Summary of longliner catch in the Western Indian Ocean
Database closed on 10/01/2003
 (Units: catch Mt, percentage in brackets, catch rates MU/1000 hooks)

Country: JAPAN		Year: 2001						
MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS FISHED	CATCH RATE	YELLOWFIN	BIGEYE	OTHERS	TOTAL
JAN	16	5	217545	0.519	85 (75)	13 (12)	15 (13)	113
FEB	11	2	79630	0.389	20 (65)	3 (10)	8 (26)	31
MAR	17	5	286669	0.687	131 (66)	54 (27)	12 (6)	197
APR	18	6	501018	0.467	133 (57)	74 (32)	27 (12)	234
MAY	14	5	427360	0.524	104 (46)	72 (32)	48 (21)	224
JUN	15	4	271620	0.523	104 (73)	21 (15)	17 (12)	142
JUL	12	5	342890	0.595	105 (51)	21 (10)	78 (38)	204
AUG	9	5	252830	0.744	102 (54)	21 (11)	65 (35)	188
SEP	10	5	348160	0.658	164 (72)	28 (12)	37 (16)	229
OCT	14	7	512960	0.526	212 (79)	42 (16)	16 (6)	270
NOV	13	6	326400	0.466	110 (72)	31 (20)	11 (7)	152
DEC	26	9	382809	0.682	193 (74)	54 (21)	14 (5)	261
Total			3949891	0.568	1463 (65)	434 (19)	348 (16)	2245

Country: JAPAN		Year: 2002						
MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS FISHED	CATCH RATE	YELLOWFIN	BIGEYE	OTHERS	TOTAL
JAN	28	10	557493	0.640	214 (60)	116 (32)	27 (8)	357
FEB	25	5	113520	0.317	20 (56)	10 (28)	6 (17)	36
MAR	22	3	179600	0.518	70 (75)	14 (15)	9 (10)	93
APR	15	4	337160	0.543	65 (36)	97 (53)	21 (11)	183
MAY	16	4	113800	0.527	41 (68)	11 (19)	8 (13)	60
JUN	8	1	80200	0.324	14 (54)	6 (23)	6 (23)	26
Total			1381773	0.546	424 (56)	254 (34)	78 (10)	755

TABLE 10.2 Summary of longliner catch in the Western Indian Ocean
Database closed on 10/01/2003
 (Units: catch Mt, percentage in brackets, catch rates Mt/1000 hooks)

Country: TAIWAN

Year: 2001

MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS FISHED	CATCH RATE	YELLOWFIN	BIGEYE	OTHERS	TOTAL
JAN	57	27	1703907	0.242	147 (36)	179 (43)	87 (21)	413
FEB	58	25	1443277	0.252	107 (29)	177 (49)	80 (22)	364
MAR	54	21	1491260	0.330	149 (30)	257 (52)	86 (17)	492
APR	50	15	799100	0.377	90 (30)	170 (56)	41 (14)	301
MAY	30	9	331350	0.413	49 (36)	60 (44)	28 (20)	137
JUN	17	2	61560	0.390	14 (58)	8 (33)	2 (8)	24
JUL	8	1	33000	0.242	3 (38)	3 (38)	2 (25)	8
AUG	4	0	0	0.000	0 (0)	0 (0)	0 (0)	0
SEP	5	3	96420	0.187	6 (33)	11 (61)	1 (6)	18
OCT	22	10	488844	0.223	47 (43)	45 (41)	17 (16)	109
NOV	62	8	551150	0.312	78 (45)	72 (42)	22 (13)	172
DEC	113	9	571865	0.414	121 (51)	98 (41)	18 (8)	237
Total			7571733	0.300	811 (36)	1080 (47)	384 (17)	2275

Country: TAIWAN

Year: 2002

MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS FISHED	CATCH RATE	YELLOWFIN	BIGEYE	OTHERS	TOTAL
JAN	110	5	293600	0.364	51 (48)	50 (47)	6 (6)	107
FEB	96	2	111050	0.414	31 (67)	10 (21)	5 (11)	46
MAR	96	1	70850	0.141	0 (0)	9 (90)	1 (10)	10
APR	91	1	71000	0.169	2 (17)	9 (75)	1 (8)	12
MAY	91	1	14250	0.211	2 (67)	1 (33)	0 (0)	3
JUN	55	0	0	0.000	0 (0)	0 (0)	0 (0)	0
Total			560750	0.317	86 (48)	79 (44)	13 (7)	178

TABLE 10.3 **Summary of longliner catch in the Western Indian Ocean**
Database closed on 10/01/2003
 (Units: catch Mt, percentage in brackets, catch rates Mt/1000 hooks)

Country: TAIWAN (Operating from Port Victoria) Year: 2002

MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS FISHED	CATCH RATE	YELLOWFIN	BIGEYE	OTHERS	TOTAL
JAN	14	2	7200	0.278	1 (50)	0 (0)	1 (50)	2
FEB	14	9	102800	0.496	28 (55)	11 (22)	12 (24)	51
MAR	14	12	235600	0.590	70 (50)	34 (24)	35 (25)	139
APR	14	14	291600	0.816	82 (34)	84 (35)	72 (30)	238
MAY	14	14	267400	0.804	55 (26)	54 (25)	106 (49)	215
JUN	14	14	161400	0.297	6 (13)	6 (13)	36 (75)	48
Total			1066000	0.650	242 (35)	189 (27)	262 (38)	693

TABLE 10.4 Summary of longliner catch in the Western Indian Ocean
Database closed on 10/01/2003
 (Units: catch Mt, percentage in brackets, catch rates Mt/1000 hooks)

Country: Seychelles

Year: 2001

MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS FISHED	CATCH RATE	YELLOWFIN	BIGEYE	OTHERS	TOTAL
JAN	3	1	84000	0.262	1 (5)	18 (82)	3 (14)	22
FEB	3	1	24000	0.250	0 (0)	5 (83)	1 (17)	6
MAR	3	1	5800	0.345	0 (0)	2 (100)	0 (0)	2
APR	4	1	41300	0.218	1 (11)	6 (67)	2 (22)	9
MAY	5	2	147000	0.327	5 (10)	10 (21)	33 (69)	48
JUN	4	1	84000	0.500	2 (5)	5 (12)	35 (83)	42
JUL	6	2	183000	0.481	11 (13)	31 (35)	46 (52)	88
AUG	6	3	221500	0.537	21 (18)	46 (39)	52 (44)	119
SEP	5	5	325080	0.569	20 (11)	51 (28)	114 (62)	185
OCT	5	5	411462	0.557	44 (19)	54 (24)	131 (57)	229
NOV	8	5	353620	0.430	17 (11)	48 (32)	87 (57)	152
DEC	8	5	431250	0.654	114 (40)	84 (30)	84 (30)	282
Total			2312012	0.513	236 (20)	360 (30)	589 (50)	1184

Country: Seychelles

Year: 2002

MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS FISHED	CATCH RATE	YELLOWFIN	BIGEYE	OTHERS	TOTAL
JAN	7	5	358100	0.444	45 (28)	89 (56)	25 (16)	159
FEB	6	6	424709	0.478	23 (11)	63 (31)	117 (58)	203
MAR	6	6	461328	0.496	33 (14)	83 (36)	113 (49)	229
APR	5	3	210891	0.887	11 (6)	97 (52)	79 (42)	187
MAY	5	3	138082	0.818	6 (5)	58 (51)	49 (43)	113
JUN	3	1	74850	0.294	4 (18)	10 (45)	8 (36)	22
Total			1667960	0.547	122 (13)	400 (44)	391 (43)	913

TABLE 10.5 Summary of longliner catch in the Western Indian Ocean
Database closed on 10/01/2003
 (Units: catch Mt, percentage in brackets, catch rates Mt/1000 hooks)

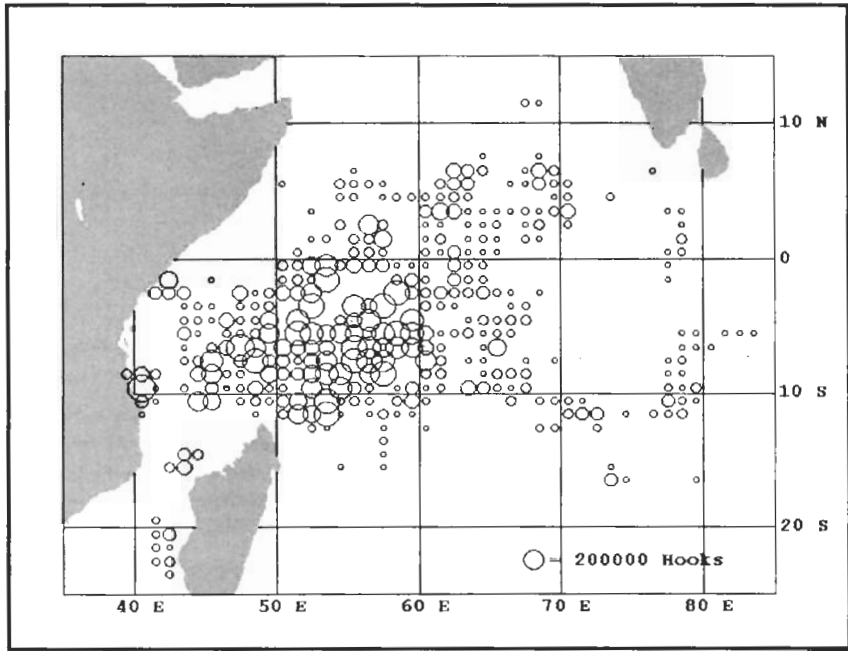
Country: OTHERS

Year: 2001

MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS FISHED	CATCH RATE	YELLOWFIN	BIGEYE	OTHERS	TOTAL
JAN	25	0	0	0.000	0 (0)	0 (0)	0 (0)	0
FEB	11	0	0	0.000	0 (0)	0 (0)	0 (0)	0
MAR	8	0	0	0.000	0 (0)	0 (0)	0 (0)	0
APR	9	0	0	0.000	0 (0)	0 (0)	0 (0)	0
MAY	9	0	0	0.000	0 (0)	0 (0)	0 (0)	0
JUN	8	1	17000	0.118	1 (50)	0 (0)	1 (50)	2
JUL	8	1	8000	0.038	1 (33)	1 (33)	1 (33)	3
AUG	8	0	0	0.000	0 (0)	0 (0)	0 (0)	0
SEP	8	0	0	0.000	0 (0)	0 (0)	0 (0)	0
OCT	9	0	0	0.000	0 (0)	0 (0)	0 (0)	0
NOV	10	1	13800	0.263	1 (33)	2 (67)	0 (0)	3
DEC	9	0	0	0.000	0 (0)	0 (0)	0 (0)	0
Total			38800	0.151	3 (38)	3 (38)	2 (27)	8

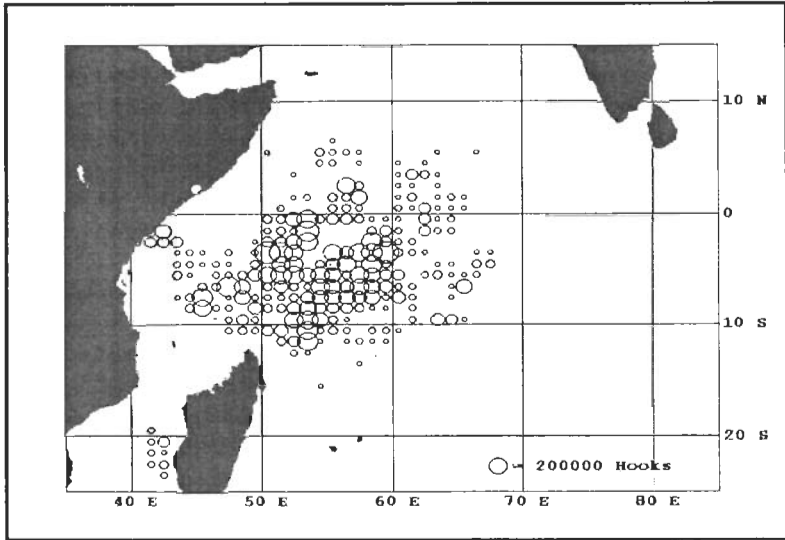
MAP 5. LONGLINERS TOTAL EFFORT IN THE WESTERN INDIAN OCEAN BY 1° SQUARE

Whole Year 2001



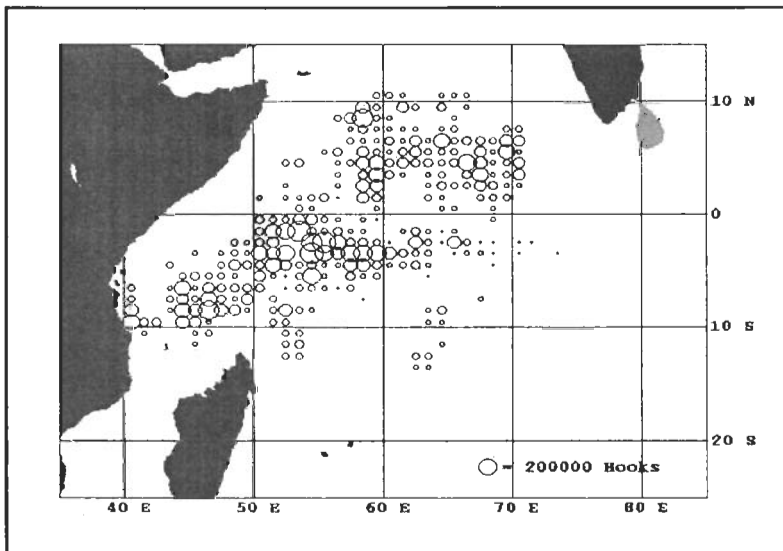
MAP 6. LONGLINERS TOTAL EFFORT IN THE WESTERN INDIAN OCEAN BY 1° SQUARE

First Semester 2001

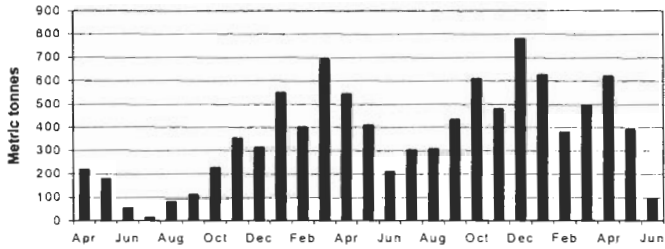


MAP 7. LONGLINERS TOTAL EFFORT IN THE WESTERN INDIAN OCEAN BY 1° SQUARE

First Semester 2002



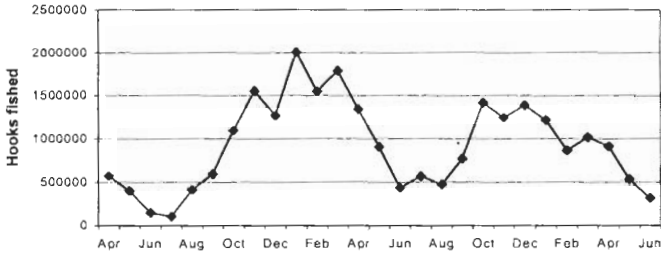
**CATCH: LAST 27 MONTHS
 LONGLINERS LICENSED IN SEYCHELLES**



Apr 2000 - June 2002

■ ALL NATION: TOTAL

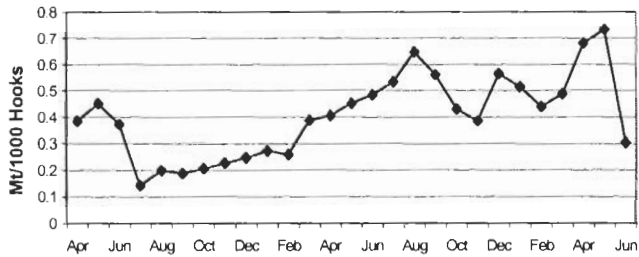
**EFFORT: LAST 27 MONTHS
 LONGLINERS LICENSED IN SEYCHELLES**



Apr 2000 - June 2002

◆ ALL NATION TOTAL

**CPUE LAST 27 MONTHS
 LONGLINERS LICENSED IN SEYCHELLES**



Apr 2000 - June 2002

◆ ALL NATION TOTAL