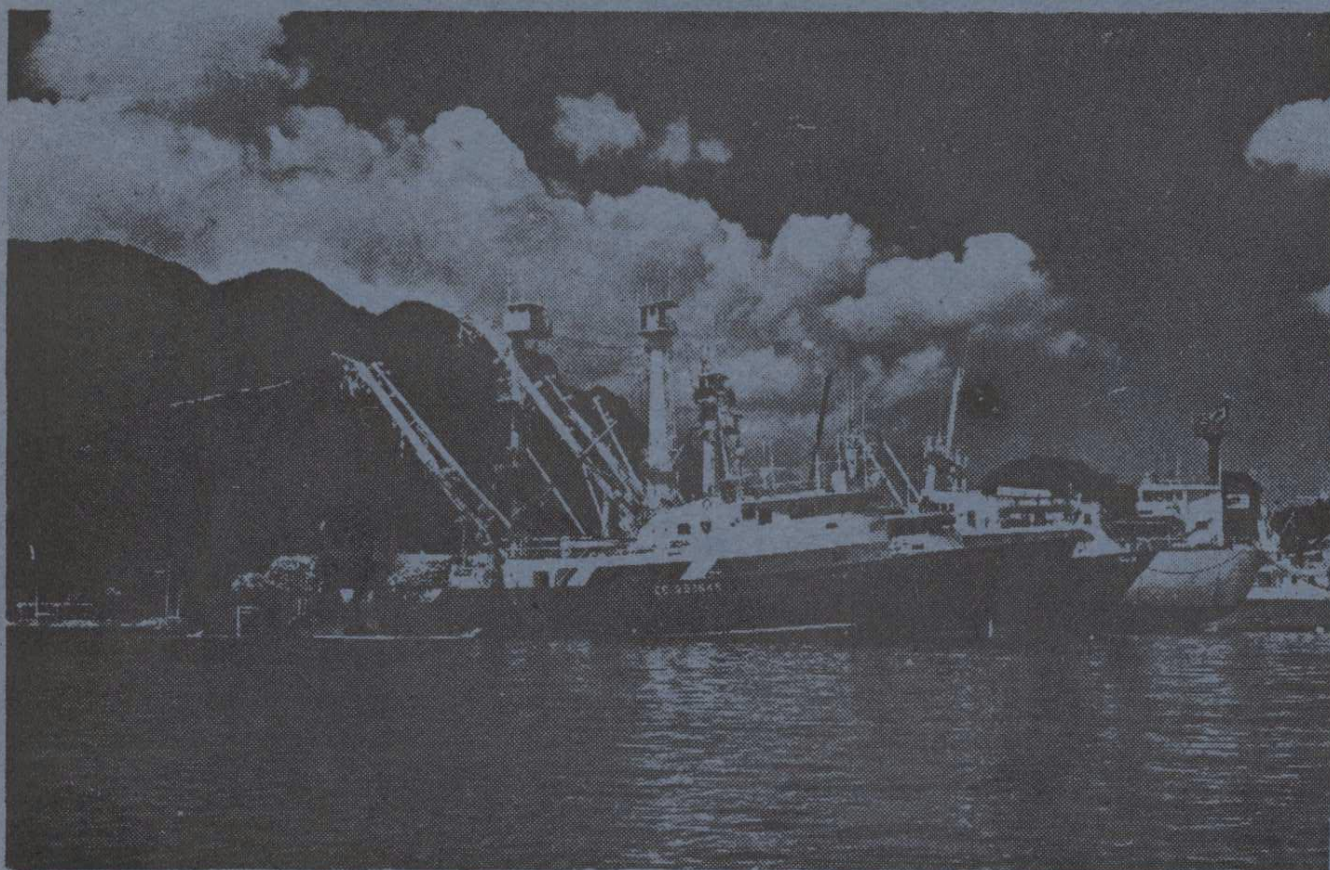


# SEYCHELLES FISHING AUTHORITY

## TUNA BULLETIN



Year 2011

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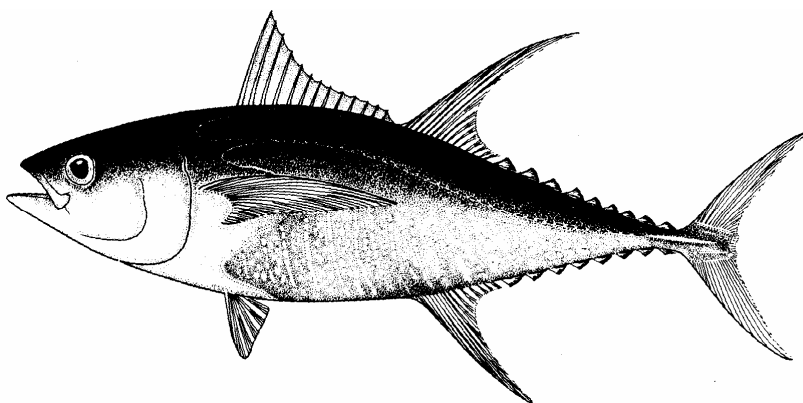


## SEYCHELLES FISHING AUTHORITY

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## SEYCHELLES TUNA BULLETIN

**Year 2011**



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 Investment, Natural Resources and Industry 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 of the Tuna Bulletin contains fisheries statistics in the Western Indian Ocean (WIO) reported by purse seiners and longliners licensed to fish inside of the Seychelles EEZ for years 2010 and 2011

A handwritten signature in dark ink, appearing to read 'Finley', with a stylized flourish at the end.

Finley Racombo  
Chief Executive Officer

## SUMMARY

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 and for purse seiners, as well as from data collected via the tuna sampling programme conducted during transshipment in Port Victoria. Sometimes there are delays in these being received at SFA, especially for longliners that often spend up to a year at sea, and for purse seiners the delays are usually during and just after the second quarter of the year when most vessels are fishing in the Mozambique Channel and are not necessarily using Port Victoria for transshipment.

Readers should note that many of the figures presented for longline fishing vessel are subject to revision (usually upwards) as more data become available. The closing date for compilation of data prior to the generation of the statistical tables is shown at the head of each table.

## PURSE SEINERS

### PRINCIPAL POINTS

- The total catch reported by purse seiners licensed in Seychelles during the year 2010 was 279,244 MT. This was achieved by an average of 33 active vessels per month and a fishing effort of 9,318 fishing days giving a mean catch rate of 29.97 MT/fishing days.
- The purse seine tuna catch reported for the Western Indian Ocean during the first semester of 2011 was 115,412 MT obtained from a fishing effort of 4,618 fishing days, this giving a mean catch rate of 24.99 MT/fishing days. This represents a decrease of 10 % in catches from 128,692 MT recorded during the same period in 2010.
- During the second semester of 2011, a total of 142,949 MT of tuna was caught from a fishing effort of 4,940 fishing days. This represents a 5 % decrease in total catch over the same period in 2010. The mean catch rate recorded during the second semester of 2011 was 28.94 MT/fishing days compared to 31.33 MT/fishing day recorded during the same period in 2010.
- The total purse seine tuna catches for the year 2011 is estimated at 258,361 MT representing a decrease of 7% or 20,883 MT of tuna above the total catch recorded in 2010. This was achieved by an average of 33 vessels active per month and fishing effort of 9,558 fishing days. Thus the mean catch rate for 2011 was estimated at 27.03 MT/fishing days.

Table I. Species composition of the total catch reported for the year 2010 and 2011.

SPECIES	2010	%	2011	%
YELLOWFIN ( <i>Thunnus albacares</i> )	103, 127	37	110,574	43
SKIPJACK ( <i>Katsuwonus pelamis</i> )	153,782	55	127,150	49
BIGEYE ( <i>Thunnus obesus</i> )	22,102	8	19,864	8
OTHERS	233	0	773	0
<b>TOTAL</b>	279,244		258,361	

During 2011, skipjack tuna dominated the catch accounting for 49 % of the total catch followed by yellowfin tuna (43 %) and bigeye tuna (8 %). Catches of skipjack and bigeye decreased by 17 % and 10 % respectively, whilst that of yellowfin tuna increased by 7 %.

Readers should note that the catch composition recorded by fishermen in their daily catch and effort reports were corrected based on scientific sampling carried out during transshipment or landing in Port Victoria.

1. Table 3 shows purse seine transshipment or landing statistics by harbour.
2. It should be noted that the figures represent the transshipment or landing of vessels whose trips ENDED in the month indicated and NOT the actual month of physical transshipment or landing of the catch.
  - During the first semester of 2011, transshipment and landing through Port Victoria amounted to 81,807 MT representing 71 % of the total catch. For the same period in 2009 a total of 92,091 MT (72% of the total catch) was unloaded in Port Victoria. This represents a decrease of 11 % in total tuna transshipped/landed during the first semester of 2011 over the same period in 2010 (table 3).
  - During the second semester of 2011, an increase of 61 % was recorded in total tuna transshipped/landed in Port Victoria compared to the first semester. A total of 131,531MT, 92 % of the total catch was unloaded here compared to 143,115 MT for the same period of the previous year.
  - For the whole of 2011, a total of 213,338 MT of tuna was transshipped in Port Victoria compared to 235,206 MT in 2010. This represents 83% of the total catch for the year 2011 and a decrease of 9% over the previous year.

## LONGLINERS

### PRINCIPAL POINTS

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

- Not all longliners in the WIO have a licence 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.

Since the duration of licences can vary from one month to twelve months, for comparison purposes, each month covered in a logbook was considered as one logbook.

The statistics published for 2010 are related to 396 logbooks (months) or 84 % logbook received at the time when statistical tables were generated. A total of 65 licenses were issued to 55 vessels in 2010. During 2011, a total of 469 logbooks (months) or 86 % logbooks were received, for the 77 licenses issued to 55 vessels.

Analysis of data collected to date show that:

- The total catch for the whole year 2010 was 8,603 MT obtained from a fishing effort 22.2 million hooks, thus giving a mean catch rate of 0.39 MT/1000 hooks.
- During the first semester of 2011, a total catch of 3,108 MT was reported, compared to 3,909 MT for the same period in 2010 representing a decrease of 20 %. This was achieved from a fishing effort of 7.9 million hooks giving a mean catch rate of 0.39 MT/1000 hooks. The mean catch rate for the same period in 2010 was 0.37 MT/1000 hooks.
- During the second semester of 2011 a total catch of 5,150 MT was reported compared to 4,694 MT for 2010. A total of 9.7 million hooks were set during that period giving a mean catch rate of 0.53 MT/1000 hooks compared to 0.41 MT/1000 hooks, which was recorded during the same period the previous year.
- For the whole of 2011, a total catch of 8,257 MT was reported representing a decrease of 4 % in catches when compared to the year 2010. The 2011 catches were achieved from a fishing effort of approximately 17.7 million hooks giving a mean catch rate of 0.47 MT/1000 hooks compared to 0.39 MT/1000 hooks for 2010.
- For the whole year 2011, bigeye tuna and swordfish recorded a decrease of 3 %, and 12% respectively whilst yellowfin tuna increase by 59% compare to 2010. Bigeye tuna dominated the catch accounting for 54% of the total catch whilst yellowfin tuna up to 17 % of the total catch.

Table II. Species composition of the total catch reported for the year 2010 and 2011.

<b>SPECIES</b>	<b>2010</b>	<b>%</b>	<b>2011</b>	<b>%</b>
YELLOWFIN ( <i>Thunnus albacares</i> )	840	<b>10</b>	1,366	<b>17</b>
BIGEYE ( <i>Thunnus obesus</i> )	4,603	<b>54</b>	4,473	<b>54</b>
SWORDFISH ( <i>Xiphias gladius</i> )	485	<b>6</b>	425	<b>5</b>
OTHERS	2,666	<b>30</b>	1,959	<b>24</b>
<b>TOTAL</b>	8,594		8,257	

## Definitions of terms used

TERMS	DEFINITION
VESSELS LICENSED	Vessels licensed to fish in the Seychelles EEZ.
VESSELS FISHED	Vessels whose logbook has been received at SFA and which contains at least one DAY FISHED for the month in question.
VESSELS COVERED	Vessels for which a logbook has been received containing at least one fishing day during the month; or a vessel that is not fishing yet the SFA knows of its activities.
FISHING DAYS	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 or days spent drifting by flotsam or fish aggregating devices (FADs).
CATCH	MT - Metric Tonne (1000 kg)
CATCH RATE - Purse seine	Metric Tonne per fishing day
CATCH RATE - Longline	Metric tonne/1000 hooks
TRANSSHIPMENT and LANDING	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 IOT 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 Seychelles fleet and Table 2.4 statistics for "Others" which represents the other nationalities combined. 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 in the heading of 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".

The total catch for each trip has been taken from records of transshipment and landings 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 declared in the logbooks has been corrected based on data collected during the tuna-sampling program conducted during transshipment and landings in Port Victoria. Catches have been estimated in wet weight rather than dry weight.

- The Spanish fleet reported the highest amount of tuna caught during the year 2011 with a reported catch of 126,009 MT. This represents a decrease of 8 % over the 137,386 MT reported during the same period of the previous year.
- The French fleet recorded a decrease of 10% in their total catch during 2011. A total catch of 42,530 MT was reported for that year compared to 47,102 MT during the year 2010.
- The Seychelles fleet reported a total catch of 63,212 MT representing a decrease of 17 % over 75,787 MT reported in 2010.
- The remaining 26,610 MT of tuna caught during 2011 were taken by vessels from other countries. They have classified as "Other". (See footnote of Table 6 for details).

Figure 1, 2 and 3 illustrate the catch, effort and CPUE of purse seiner holding Seychelles licences from 2000 to 2011.

Figure 4, 5 and 6 illustrate the catch, effort and CPUE of purse seiner holding Seychelles licences from October 2009 to December 2011.

Maps 1 and 2 show the distribution of reported catch of purse seiner by 1° square in the WIO for the first and second semester of 2011 respectively.

Maps 3 and 4 illustrate the distribution of reported catches of purse seiner for the whole of 2010 and 2011 respectively.

**TABLE 1. Catch Statistics for Purse Seiners in the Western Indian Ocean**  
**Database closed on**  
**(Units: catch MT, percentages in brackets, catch rates MT/fishing day)**

**Year: 2010**

	VESSELS	VESSELS	DAYS	CATCH	YELLOWFIN		SKIPJACK		BIGEYE		ALBACORE		Total	CUMMUL
MONTH	LICENSED	COVERED	FISHED	RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	48	36	906	32.63	9069	31	17112	58	3388	11	0	0	29571	29571
Feb	48	34	712	37.94	7744	29	16307	60	2952	11	14	0	27022	56593
Mar	38	34	789	26.25	7257	35	11647	56	1787	9	8	0	20711	77304
Apr	34	32	767	24.66	5236	28	12599	67	1045	6	20	0	18905	96209
May	34	32	688	20.25	4793	34	8070	58	957	7	98	1	13940	110149
Jun	35	31	650	28.51	9075	49	6957	38	2498	13	13	0	18543	128692
Jul	34	32	712	26.52	7265	38	10412	55	1195	6	5	0	18878	147570
Aug	34	33	845	30.70	7814	30	16441	63	1676	6	0	0	25932	173501
Sep	34	33	786	39.05	8719	28	20043	65	1934	6	0	0	30696	204197
Oct	33	33	798	40.85	13741	42	16875	52	2001	6	0	0	32617	236814
Nov	33	33	769	32.62	10111	40	13070	52	1889	8	0	0	25070	261884
Dec	35	36	896	19.37	12301	71	4250	24	779	4	29	0	17359	279244
	<b>37</b>	<b>33</b>	<b>9318</b>	<b>29.97</b>	<b>103127</b>	<b>37</b>	<b>153782</b>	<b>55</b>	<b>22102</b>	<b>8</b>	<b>187</b>	<b>0</b>	<b>279244</b>	

**Year: 2011**

	VESSELS	VESSELS	DAYS	CATCH	YELLOWFIN		SKIPJACK		BIGEYE		ALBACORE		Total	CUMMUL
MONTH	LICENSED	COVERED	FISHED	RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	35	34	826	35.94	12426	42	14526	49	2734	9	10	0	29699	29699
Feb	34	33	705	34.65	6697	27	15142	62	2550	10	9	0	24424	54123
Mar	34	33	810	22.62	5859	32	10793	59	1591	9	78	0	18320	72443
Apr	34	31	739	32.98	6707	28	15936	65	1659	7	63	0	24365	96808
May	34	33	762	12.97	4675	47	4068	41	664	7	471	5	9879	106687
Jun	34	34	776	11.25	3587	41	4339	50	785	9	14	0	8725	115412
Jul	34	34	917	18.86	9629	56	4390	25	3218	19	55	0	17292	132704
Aug	34	34	861	24.79	9997	47	10093	47	1255	6	7	0	21352	154056
Sep	34	34	897	28.68	10843	42	13390	52	1491	6	12	0	25737	179793
Oct	34	34	791	45.63	15359	43	19239	53	1466	4	10	0	36074	215867
Nov	34	31	642	23.01	6471	44	7507	51	797	5	4	0	14779	230646
Dec	33	34	831	33.34	18323	66	7728	28	1654	6	10	0	27715	258361
	<b>34</b>	<b>33</b>	<b>9558</b>	<b>27.03</b>	<b>110574</b>	<b>43</b>	<b>127150</b>	<b>49</b>	<b>19864</b>	<b>8</b>	<b>744</b>	<b>0</b>	<b>258361</b>	

**TABLE 2.1. Statistics for Purse Seiners in the Western Indian Ocean by Country**  
**Database closed on**  
**(Units: catch MT, percentages in brackets, catch rates MT/fishing day)**

**Country: SPAIN                      Year: 2010**

	VESSELS	VESSELS	DAYS	CATCH	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	Total	CUMMUL				
MONTH	LICENSED	COVERED	FISHED	RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	16	13	357	41.87	3941	26	9365	63	1627	11	0	0	14935	14935
Feb	16	13	270	47.92	3586	28	7940	61	1422	11	13	0	12960	27896
Mar	14	13	327	28.63	3361	36	5172	55	819	9	8	0	9360	37255
Apr	14	13	323	29.37	2445	26	6529	69	509	5	11	0	9496	46751
May	14	13	288	27.40	2816	36	4569	58	442	6	44	1	7885	54636
Jun	14	13	306	31.53	3894	40	4677	48	1074	11	6	0	9651	64287
Jul	14	12	305	26.79	3112	38	4558	56	493	6	0	0	8163	72450
Aug	14	13	356	33.11	3604	31	7474	63	722	6	0	0	11800	84250
Sep	14	13	330	52.87	4937	28	11410	65	1089	6	0	0	17435	101685
Oct	14	13	339	48.05	5934	36	9352	57	1000	6	0	0	16285	117971
Nov	14	13	312	37.32	4166	36	6674	57	820	7	0	0	11661	129631
Dec	14	13	365	21.22	4969	64	2366	31	391	5	29	0	7755	137386
	<b>14</b>	<b>13</b>	<b>3879</b>	<b>35.42</b>	<b>46762</b>	<b>34</b>	<b>80088</b>	<b>58</b>	<b>10408</b>	<b>8</b>	<b>110</b>	<b>0</b>	<b>137386</b>	

**Country: SPAIN                      Year: 2011**

	VESSELS	VESSELS	DAYS	CATCH	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	Total	CUMMUL				
MONTH	LICENSED	COVERED	FISHED	RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	14	13	327	43.26	5400	38	7467	53	1261	9	5	0	14133	14133
Feb	13	13	305	43.54	3325	25	8528	64	1421	11	9	0	13299	27432
Mar	13	13	341	26.55	2779	31	5500	61	760	8	3	0	9041	36473
Apr	13	12	298	41.98	3259	26	8325	67	856	7	49	0	12489	48962
May	13	12	274	14.27	1639	42	1927	49	280	7	65	2	3911	52873
Jun	13	13	290	12.57	1378	38	1964	54	298	8	0	0	3640	56513
Jul	13	13	372	24.09	4867	54	2291	26	1787	20	10	0	8955	65468
Aug	13	13	349	28.84	4429	44	5058	50	579	6	0	0	10066	75535
Sep	13	13	347	35.93	5223	42	6481	52	755	6	0	0	12459	87994
Oct	13	13	325	52.88	6847	40	9648	56	686	4	0	0	17180	105174
Nov	13	12	279	29.33	3455	42	4272	52	443	5	0	0	8170	113345
Dec	13	13	334	37.95	7811	62	4201	33	653	5	0	0	12664	126009
	<b>13</b>	<b>13</b>	<b>3839</b>	<b>32.83</b>	<b>50413</b>	<b>40</b>	<b>65662</b>	<b>52</b>	<b>9778</b>	<b>8</b>	<b>141</b>	<b>0</b>	<b>126009</b>	

**TABLE 2.2. Statistics for Purse Seiners in the Western Indian Ocean by Country**  
**Database closed on**  
**(Units: catch MT, percentages in brackets, catch rates MT/fishing day)**

**Country: FRANCE                      Year: 2010**

	VESSELS	VESSELS	DAYS	CATCH	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	Total	CUMMUL				
MONTH	LICENSED	COVERED	FISHED	RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	16	8	195	20.60	2149	54	1374	34	484	12	0	0	4008	4008
Feb	16	8	168	22.44	1222	32	2195	58	342	9	1	0	3766	7774
Mar	9	8	202	18.14	1368	37	2023	55	286	8	0	0	3676	11450
Apr	9	8	188	20.27	1370	36	2205	58	236	6	4	0	3818	15268
May	9	8	185	15.49	1118	39	1408	49	309	11	17	1	2859	18127
Jun	9	7	121	29.87	2529	70	538	15	541	15	8	0	3615	21742
Jul	9	8	157	21.57	1606	48	1602	47	169	5	0	0	3376	25119
Aug	9	8	201	27.38	1593	29	3563	65	335	6	0	0	5491	30609
Sep	9	8	174	26.00	1276	28	2966	66	279	6	0	0	4521	35130
Oct	9	8	162	31.81	3575	69	1325	26	261	5	0	0	5161	40291
Nov	9	8	168	21.88	2382	65	1068	29	235	6	0	0	3685	43976
Dec	9	8	212	14.77	2429	78	597	19	100	3	0	0	3126	47102
	<b>10</b>	<b>8</b>	<b>2132</b>	<b>22.10</b>	<b>22616</b>	<b>48</b>	<b>20864</b>	<b>44</b>	<b>3577</b>	<b>8</b>	<b>29</b>	<b>0</b>	<b>47102</b>	

**Country: FRANCE                      Year: 2011**

	VESSELS	VESSELS	DAYS	CATCH	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	Total	CUMMUL				
MONTH	LICENSED	COVERED	FISHED	RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	9	8	165	32.13	2575	48	2246	42	489	9	5	0	5315	5315
Feb	9	7	158	20.82	1134	34	1821	55	342	10	0	0	3297	8612
Mar	9	7	140	17.37	817	34	1342	55	213	9	54	2	2427	11039
Apr	9	7	161	24.59	1244	31	2473	62	247	6	7	0	3970	15009
May	9	8	183	9.20	928	55	531	32	101	6	121	7	1681	16689
Jun	9	8	201	9.86	909	46	833	42	236	12	4	0	1981	18671
Jul	9	8	204	13.06	1763	66	501	19	384	14	20	1	2667	21338
Aug	9	8	197	19.43	2012	53	1581	41	235	6	3	0	3831	25169
Sep	9	8	205	20.17	1742	42	2147	52	235	6	4	0	4128	29297
Oct	9	8	175	29.99	2695	51	2319	44	223	4	8	0	5245	34542
Nov	9	8	127	15.56	927	47	932	47	113	6	4	0	1977	36519
Dec	9	8	192	31.31	4512	75	996	17	495	8	8	0	6011	42530
	<b>9</b>	<b>8</b>	<b>2108</b>	<b>20.17</b>	<b>21258</b>	<b>50</b>	<b>17722</b>	<b>42</b>	<b>3313</b>	<b>8</b>	<b>237</b>	<b>1</b>	<b>42530</b>	

**TABLE 2.3 Statistics for Purse Seiners in the Western Indian Ocean by Country**  
**Database closed on**  
**(Units: catch MT, percentages in brackets, catch rates MT/fishing day)**

**Country: SEYCHELLES**

**Year: 2010**

	VESSELS	VESSELS	DAYS	CATCH	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	Total	CUMMUL				
MONTH	LICENSED	COVERED	FISHED	RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	9	9	245	35.00	2153	25	5366	63	1052	12	0	0	8571	8571
Feb	9	9	195	43.48	2312	27	5148	61	1018	12	0	0	8479	17049
Mar	9	9	190	34.55	2106	32	3841	59	602	9	0	0	6561	23610
Apr	9	8	180	24.22	1073	25	3038	70	238	5	5	0	4354	27964
May	9	8	172	14.23	644	26	1631	67	167	7	9	0	2450	30414
Jun	9	7	143	25.43	1698	47	1360	38	569	16	0	0	3627	34042
Jul	8	8	186	33.26	1900	31	3816	62	483	8	0	0	6199	40241
Aug	8	8	213	31.30	1975	30	4192	63	502	8	0	0	6669	46909
Sep	8	8	185	35.54	1840	28	4309	65	437	7	0	0	6586	53495
Oct	7	8	214	44.57	3286	34	5646	59	616	6	0	0	9548	63043
Nov	7	8	204	40.32	2938	36	4573	56	701	9	0	0	8213	71256
Dec	8	9	196	23.14	3405	75	907	20	218	5	0	0	4530	75787
	<b>8</b>	<b>8</b>	<b>2323</b>	<b>32.63</b>	<b>25330</b>	<b>33</b>	<b>43828</b>	<b>58</b>	<b>6602</b>	<b>9</b>	<b>14</b>	<b>0</b>	<b>75787</b>	

**Country: SEYCHELLES**

**Year: 2011**

	VESSELS	VESSELS	DAYS	CATCH	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	Total	CUMMUL				
MONTH	LICENSED	COVERED	FISHED	RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	8	8	216	38.26	3290	40	4149	50	842	10	0	0	8283	8283
Feb	8	8	157	35.07	1573	29	3365	61	567	10	0	0	5515	13798
Mar	8	8	204	23.54	1590	33	2748	57	463	10	0	0	4800	18599
Apr	8	7	173	28.60	1336	27	3245	66	367	7	0	0	4949	23547
May	8	8	188	14.81	1102	40	1444	52	212	8	29	1	2786	26334
Jun	8	8	163	14.48	978	42	1192	51	185	8	0	0	2356	28689
Jul	8	8	226	17.60	1934	49	1345	34	693	17	0	0	3971	32661
Aug	8	8	211	24.82	2163	41	2762	53	303	6	0	0	5228	37889
Sep	8	8	224	29.13	2564	39	3587	55	366	6	0	0	6518	44406
Oct	8	8	197	47.90	3779	40	5265	56	372	4	0	0	9416	53822
Nov	8	7	177	19.16	1447	43	1779	52	172	5	0	0	3398	57219
Dec	7	8	211	28.35	3617	60	2081	35	294	5	0	0	5992	63212
	<b>8</b>	<b>8</b>	<b>2347</b>	<b>26.94</b>	<b>25371</b>	<b>40</b>	<b>32962</b>	<b>52</b>	<b>4837</b>	<b>8</b>	<b>29</b>	<b>0</b>	<b>63212</b>	

**TABLE 2.4 Statistics for Purse Seiners in the Western Indian Ocean by Country**  
**Database closed on**  
**(Units: catch MT, percentages in brackets, catch rates MT/fishing day)**

**Country: OTHER COUNTRIES Year: 2010**

	VESSELS	VESSELS	DAYS	CATCH	YELLOWFIN		SKIPJACK		BIGEYE		ALBACORE		Total	CUMMUL
MONTH	LICENSED	COVERED	FISHED	RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	7	6	110	18.69	826	40	1007	49	224	11	0	0	2057	2057
Feb	7	4	79	23.02	624	34	1023	56	169	9	0	0	1817	3874
Mar	6	4	70	15.92	422	38	610	55	81	7	0	0	1114	4988
Apr	2	3	75	16.49	349	28	826	67	62	5	0	0	1237	6226
May	2	3	44	16.96	216	29	462	62	39	5	28	4	746	6972
Jun	3	4	81	20.48	954	58	382	23	314	19	0	0	1650	8621
Jul	3	4	64	17.70	648	57	435	38	51	4	5	0	1140	9761
Aug	3	4	75	26.45	643	33	1212	61	117	6	0	0	1972	11733
Sep	3	4	97	22.19	666	31	1358	63	129	6	0	0	2154	13886
Oct	3	4	83	19.53	947	58	552	34	125	8	0	0	1623	15509
Nov	3	4	84	17.98	625	41	753	50	133	9	0	0	1512	17021
Dec	4	6	123	15.80	1498	77	380	19	71	4	0	0	1948	18969
	<b>4</b>	<b>4</b>	<b>985</b>	<b>19.26</b>	<b>8419</b>	<b>44</b>	<b>9002</b>	<b>47</b>	<b>1515</b>	<b>8</b>	<b>34</b>	<b>0</b>	<b>18969</b>	

**Country: OTHER COUNTRIES Year: 2011**

	VESSELS	VESSELS	DAYS	CATCH	YELLOWFIN		SKIPJACK		BIGEYE		ALBACORE		Total	CUMMUL
MONTH	LICENSED	COVERED	FISHED	RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	4	5	118	16.71	1161	59	664	34	142	7	1	0	1968	1968
Feb	4	5	84	27.63	665	29	1428	62	220	10	0	0	2314	4282
Mar	4	5	126	16.29	672	33	1204	59	155	8	21	1	2051	6333
Apr	4	5	107	27.67	868	29	1892	64	190	6	7	0	2958	9291
May	4	5	117	12.83	1007	67	165	11	71	5	257	17	1500	10791
Jun	4	5	123	6.09	321	43	350	47	66	9	10	1	747	11538
Jul	4	5	115	14.72	1064	63	254	15	355	21	25	1	1698	13237
Aug	4	5	105	21.30	1394	63	692	31	137	6	4	0	2227	15463
Sep	4	5	122	21.53	1314	50	1174	45	136	5	8	0	2632	18095
Oct	4	5	94	44.92	2039	48	2007	47	185	4	2	0	4233	22328
Nov	4	4	59	20.79	642	52	524	42	69	6	0	0	1235	23563
Dec	4	5	94	32.32	2384	78	450	15	212	7	2	0	3048	26610
	<b>4</b>	<b>5</b>	<b>1264</b>	<b>21.06</b>	<b>13532</b>	<b>51</b>	<b>10805</b>	<b>41</b>	<b>1936</b>	<b>7</b>	<b>338</b>	<b>1</b>	<b>26610</b>	

**TABLE 3. Purse Seiner Transshipment Statistics by Harbour of Transshipment**  
**Database closed on**  
**(Units: catch MT)**

**Port: VICTORIA, SEYCHELLES    Year: 2010**

MONTH	NO. OF						Total	CUMMUL
	SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS		TOTAL
Jan	32	8066	15129	3061	0	2	26259	26259
Feb	33	5974	13492	2411	1	5	21883	48141
Mar	28	3914	6038	917	0	0	10869	59011
Apr	19	2574	5180	464	15	3	8235	67246
May	25	3372	5347	557	45	21	9343	76589
Jun	26	7075	6357	2057	13	0	15502	92091
Jul	29	6595	9544	1108	5	0	17253	109344
Aug	31	7604	16262	1657	0	0	25523	134866
Sep	31	8115	18827	1817	0	0	28759	163625
Oct	29	13164	16382	1927	0	0	31473	195098
Nov	31	9881	12868	1843	0	0	24592	219690
Dec	31	10884	3883	720	29	0	15515	235206
	<b>29</b>	<b>87219</b>	<b>129309</b>	<b>18538</b>	<b>109</b>	<b>32</b>	<b>235206</b>	

**Port: VICTORIA, SEYCHELLES    Year : 2011**

MONTH	NO. OF						Total	CUMMUL
	SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS		TOTAL
Jan	29	10991	12845	2427	10	2	26275	26275
Feb	27	5806	13564	2282	9	26	21687	47962
Mar	28	3244	5065	830	49	0	9187	57149
Apr	20	2601	5520	563	38	0	8721	65870
May	26	3667	3229	488	201	0	7585	73456
Jun	31	3390	4215	743	4	0	8352	81807
Jul	31	9173	4277	3065	32	0	16547	98355
Aug	31	8853	9536	1149	3	0	19541	117896
Sep	31	9953	12857	1411	3	0	24225	142121
Oct	31	13892	17500	1326	9	0	32726	174847
Nov	28	5966	7108	742	4	0	13820	188667
Dec	32	15914	7376	1373	8	0	24672	213338
	<b>29</b>	<b>93449</b>	<b>103092</b>	<b>16399</b>	<b>370</b>	<b>28</b>	<b>213338</b>	

**Port: DIEGO SUAREZ, MADAGASCAR      Year: 2010**

MONTH	N0. OF						Total	CUMMUL
	SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS		TOTAL
Jan	3	555	1055	171	0	0	1781	1781
Feb	9	1279	1879	406	13	0	3576	5357
Mar	17	3011	5078	787	8	12	8896	14253
Apr	17	2402	6556	526	5	2	9491	23744
May	14	811	2095	151	24	0	3081	26825
Jun	2	196	311	38	0	0	545	27370
Jul	0	0	0	0	0	0	0	27370
Aug	0	0	0	0	0	0	0	27370
Sep	0	0	0	0	0	0	0	27370
Oct	0	0	0	0	0	0	0	27370
Nov	1	0	0	0	0	0	0	27370
Dec	0	0	0	0	0	0	0	27370
	<b>5</b>	<b>8254</b>	<b>16973</b>	<b>2078</b>	<b>50</b>	<b>14</b>	<b>27370</b>	

**Port: DIEGO SUAREZ, MADAGASCAR      Year: 2011**

MONTH	N0. OF						Total	CUMMUL
	SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS		TOTAL
Jan	1	150	384	79	0	0	614	614
Feb	1	69	0	1	0	0	70	683
Mar	19	2038	4267	630	29	0	6965	7648
Apr	18	3165	8302	888	16	0	12372	20020
May	4	303	624	112	49	0	1088	21108
Jun	1	0	0	0	0	0	0	21108
Jul	0	0	0	0	0	0	0	21108
Aug	0	0	0	0	0	0	0	21108
Sep	0	0	0	0	0	0	0	21108
Oct	2	245	376	25	0	0	645	21753
Nov	0	0	0	0	0	0	0	21753
Dec	0	0	0	0	0	0	0	21753
	<b>4</b>	<b>5970</b>	<b>13953</b>	<b>1735</b>	<b>94</b>	<b>0</b>	<b>21753</b>	

**Port: MOMBASA, KENYA****Year: 2010**

MONTH	N0. OF						Total	CUMMUL
	SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS		TOTAL
Jan	0	0	0	0	0	0	0	0
Feb	1	166	284	42	0	0	492	492
Mar	1	278	370	59	0	0	707	1199
Apr	0	0	0	0	0	0	0	1199
May	2	153	93	193	0	0	438	1637
Jun	4	1487	233	249	0	0	1969	3607
Jul	2	355	703	69	0	0	1126	4733
Aug	1	42	53	5	0	0	99	4832
Sep	0	0	0	0	0	0	0	4832
Oct	0	0	0	0	0	0	0	4832
Nov	0	0	0	0	0	0	0	4832
Dec	0	0	0	0	0	0	0	4832
	<b>1</b>	<b>2481</b>	<b>1735</b>	<b>616</b>	<b>0</b>	<b>0</b>	<b>4832</b>	

**Port: MOMBASA, KENYA****Year: 2011**

MONTH	N0. OF						Total	CUMMUL
	SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS		TOTAL
Jan	1	307	391	63	0	0	760	760
Feb	1	89	148	43	0	0	280	1040
Mar	0	0	0	0	0	0	0	1040
Apr	0	0	0	0	0	0	0	1040
May	0	0	0	0	0	0	0	1040
Jun	0	0	0	0	0	0	0	1040
Jul	0	0	0	0	0	0	0	1040
Aug	1	588	276	54	1	0	919	1959
Sep	0	0	0	0	0	0	0	1959
Oct	0	0	0	0	0	0	0	1959
Nov	0	0	0	0	0	0	0	1959
Dec	0	0	0	0	0	0	0	1959
	<b>0</b>	<b>984</b>	<b>814</b>	<b>160</b>	<b>1</b>	<b>0</b>	<b>1959</b>	

**Port: PORT LOUIS, MAURITIUS****Year: 2010**

MONTH	N0. OF						Total	CUMMUL
	SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS		TOTAL
Jan	2	341	594	99	0	0	1034	1034
Feb	2	326	652	93	0	0	1071	2106
Mar	2	54	160	24	0	0	238	2344
Apr	3	260	862	56	0	0	1178	3522
May	4	458	535	56	29	0	1077	4600
Jun	3	316	57	154	0	0	527	5127
Jul	2	315	165	18	0	0	499	5626
Aug	2	169	127	14	0	0	310	5936
Sep	4	604	1216	117	0	0	1937	7872
Oct	4	577	492	75	0	0	1145	9017
Nov	4	230	202	46	0	0	478	9495
Dec	6	1418	367	59	0	0	1844	11339
	<b>3</b>	<b>5067</b>	<b>5430</b>	<b>813</b>	<b>29</b>	<b>0</b>	<b>11339</b>	

**Port: PORT LOUIS, MAURITIUS****Year: 2011**

MONTH	N0. OF						Total	CUMMUL
	SEINERS	YELLOWFIN	SKIPJACK	BIGEYE	ALBACORE	OTHERS		TOTAL
Jan	6	978	907	164	1	0	2050	2050
Feb	5	733	1430	225	0	0	2388	4438
Mar	5	577	1460	130	0	0	2168	6606
Apr	6	941	2113	209	9	0	3272	9878
May	5	705	215	64	221	0	1205	11083
Jun	3	197	124	42	10	0	373	11456
Jul	3	457	113	153	23	0	745	12201
Aug	3	556	281	52	3	0	892	13094
Sep	4	891	532	80	9	0	1512	14605
Oct	5	1223	1364	115	1	0	2703	17308
Nov	4	505	399	55	0	0	959	18267
Dec	6	2409	351	281	2	0	3044	21311
	<b>5</b>	<b>10171</b>	<b>9290</b>	<b>1571</b>	<b>279</b>	<b>0</b>	<b>21311</b>	

## Year 2010

Country	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Spain	13	13	13	13	13	13	12	13	13	13	13	13
France	8	8	8	8	8	7	8	8	8	8	8	8
Mayotte	3	3	3	3	3	4	4	4	4	4	4	6
Seychelles	9	9	9	8	8	7	8	8	8	8	8	9
Thailand	3	1	1	0	0	0	0	0	0	0	0	0
	36	34	34	32	32	31	32	33	33	33	33	36

## Year 2011

Country	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Spain	13	13	13	12	12	13	13	13	13	13	12	13
France	8	7	7	7	8	8	8	8	8	8	8	8
Mayotte	5	5	5	5	5	5	5	5	5	5	4	5
Seychelles	8	8	8	7	8	8	8	8	8	8	7	8
	34	33	33	31	33	34	34	34	34	34	31	34

**TABLE 5. Purse Seiners Active in the Western Indian Ocean**  
**Database closed on**

**Year: 2010**

Vessel Code	Purse Seiner	Country	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
214	ALBACORA 4	ESP	---	---	---	---	---	---	---	---	---	---	---	---
454	FELIPE RUANO	ESP	---	---	---	---	---	---	---	---	---	---	---	---
458	CAMPOLIBRE ALAI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
530	ELAI ALAI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
615	PLAYA DE ANZORAS	ESP	---	---	---	---	---	---	---	---	---	---	---	---
629	TXORI TOKI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
700	PLAYA DE ARITZATXU	ESP	---	---	---	---	---	---	---	---	---	---	---	---
711	ALBACAN	ESP	---	---	---	---	---	---	---	---	---	---	---	---
742	TXORI ARGÍ	ESP	---	---	---	---	---	---	---	---	---	---	---	---
743	ALBATUN DOS	ESP	---	---	---	---	---	---	---	---	---	---	---	---
750	IZURDIA	ESP	---	---	---	---	---	---	---	---	---	---	---	---
762	ALAKRANA	ESP	---	---	---	---	---	---	---	---	---	---	---	---
775	TXORI GORRI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
482	VIA AVENIR	FRA	---	---	---	---	---	---	---	---	---	---	---	---
502	VIA MISTRAL	FRA	---	---	---	---	---	---	---	---	---	---	---	---
572	AVEL VAD	FRA	---	---	---	---	---	---	---	---	---	---	---	---
600	CAP SAINTE MARIE	FRA	---	---	---	---	---	---	---	---	---	---	---	---
693	TALENDUIC	FRA	---	---	---	---	---	---	---	---	---	---	---	---
706	CAP SAINT VINCENT 2	FRA	---	---	---	---	---	---	---	---	---	---	---	---
760	GLENAN	FRA	---	---	---	---	---	---	---	---	---	---	---	---
796	TORRE GIULIA	FRA	---	---	---	---	---	---	---	---	---	---	---	---
767	TREVIGNON	MYT	---	---	---	---	---	---	---	---	---	---	---	---
770	DRENNEC	MYT	---	---	---	---	---	---	---	---	---	---	---	---
790	FRANCHE TERRE	MYT	---	---	---	---	---	---	---	---	---	---	---	---
798	MANAPANY	MYT	---	---	---	---	---	---	---	---	---	---	---	---
835	BERNICA	MYT	---	---	---	---	---	---	---	---	---	---	---	---
680	XIXILI	SYC	---	---	---	---	---	---	---	---	---	---	---	---
682	ERROXAPE	SYC	---	---	---	---	---	---	---	---	---	---	---	---
690	DEMIKU	SYC	---	---	---	---	---	---	---	---	---	---	---	---
721	INTERTUNA UNO	SYC	---	---	---	---	---	---	---	---	---	---	---	---
722	INTERTUNA DOS	SYC	---	---	---	---	---	---	---	---	---	---	---	---
723	INTERTUNA TRES	SYC	---	---	---	---	---	---	---	---	---	---	---	---
738	TXORI AUNDI	SYC	---	---	---	---	---	---	---	---	---	---	---	---
739	ARTZA	SYC	---	---	---	---	---	---	---	---	---	---	---	---
764	DRACO	SYC	---	---	---	---	---	---	---	---	---	---	---	---
777	THAI UNION 1	THAI	---	---	---	---	---	---	---	---	---	---	---	---
778	THAI UNION 2	THAI	---	---	---	---	---	---	---	---	---	---	---	---
782	THAI UNION STAR	THAI	---	---	---	---	---	---	---	---	---	---	---	---

**FRA: France**

**ESP: Spain**

**SYC: Seychelles**

**MYT: Mayotte**

**THAI: Thailand**

## Year: 2011

Vessel Code	Purse Seiner	Country	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
214	ALBACORA 4	ESP	---	---	---	---	---	---	---	---	---	---	---	---
454	FELIPE RUANO	ESP	---	---	---	---	---	---	---	---	---	---	---	---
458	CAMPOLIBRE ALAI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
530	ELAI ALAI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
615	PLAYA DE ANZORAS	ESP	---	---	---	---	---	---	---	---	---	---	---	---
629	TXORI TOKI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
700	PLAYA DE ARITZATXU	ESP	---	---	---	---	---	---	---	---	---	---	---	---
711	ALBACAN	ESP	---	---	---	---	---	---	---	---	---	---	---	---
742	TXORI ARGÍ	ESP	---	---	---	---	---	---	---	---	---	---	---	---
743	ALBATUN DOS	ESP	---	---	---	---	---	---	---	---	---	---	---	---
750	IZURDIA	ESP	---	---	---	---	---	---	---	---	---	---	---	---
762	ALAKRANA	ESP	---	---	---	---	---	---	---	---	---	---	---	---
775	TXORI GORRI	ESP	---	---	---	---	---	---	---	---	---	---	---	---
482	VIA AVENIR	FRA	---	---	---	---	---	---	---	---	---	---	---	---
502	VIA MISTRAL	FRA	---	---	---	---	---	---	---	---	---	---	---	---
572	AVEL VAD	FRA	---	---	---	---	---	---	---	---	---	---	---	---
600	CAP SAINTE MARIE	FRA	---	---	---	---	---	---	---	---	---	---	---	---
693	TALENDUIC	FRA	---	---	---	---	---	---	---	---	---	---	---	---
706	CAP SAINT VINCENT 2	FRA	---	---	---	---	---	---	---	---	---	---	---	---
760	GLENAN	FRA	---	---	---	---	---	---	---	---	---	---	---	---
796	TORRE GIULIA	FRA	---	---	---	---	---	---	---	---	---	---	---	---
767	TREVIGNON	MYT	---	---	---	---	---	---	---	---	---	---	---	---
770	DRENNÉC	MYT	---	---	---	---	---	---	---	---	---	---	---	---
790	FRANCHE TERRE	MYT	---	---	---	---	---	---	---	---	---	---	---	---
798	MANAPANY	MYT	---	---	---	---	---	---	---	---	---	---	---	---
835	BERNICA	MYT	---	---	---	---	---	---	---	---	---	---	---	---
680	XIXILI	SYC	---	---	---	---	---	---	---	---	---	---	---	---
682	ERROXAPE	SYC	---	---	---	---	---	---	---	---	---	---	---	---
690	DEMIKU	SYC	---	---	---	---	---	---	---	---	---	---	---	---
721	INTERTUNA UNO	SYC	---	---	---	---	---	---	---	---	---	---	---	---
723	INTERTUNA TRES	SYC	---	---	---	---	---	---	---	---	---	---	---	---
738	TXORI AUNDI	SYC	---	---	---	---	---	---	---	---	---	---	---	---
739	ARTZA	SYC	---	---	---	---	---	---	---	---	---	---	---	---
764	DRACO	SYC	---	---	---	---	---	---	---	---	---	---	---	---

**FRA: France**

**ESP: Spain**

**SYC: Seychelles**

**MYT: Mayotte**

**TABLE 6. Comparative statistics of catch by purse seiners by country in the Western Indian Ocean**  
**Database closed on**  
**(Units: MT)**

**Year 2010**

MONTH	France	Spain	Seychelles	Others <sup>*</sup>	Total
Jan	4008	14935	8571	2057	29571
Feb	3766	12960	8479	1817	27022
Mar	3676	9360	6561	1114	20711
Apr	3818	9496	4354	1237	18905
May	2859	7885	2450	746	13940
Jun	3615	9651	3627	1650	18543
Jul	3376	8163	6199	1140	18878
Aug	5491	11800	6669	1972	25932
Sep	4521	17435	6586	2154	30696
Oct	5161	16285	9548	1623	32617
Nov	3685	11661	8213	1512	25070
Dec	3126	7755	4530	1948	17359
<b>Total</b>	<b>47102</b>	<b>137386</b>	<b>75787</b>	<b>18969</b>	<b>279244</b>

**Year 2011**

MONTH	France	Spain	Seychelles	Others <sup>*</sup>	Total
Jan	5315	14133	8283	1968	29699
Feb	3297	13299	5515	2314	24424
Mar	2427	9041	4800	2051	18320
Apr	3970	12489	4949	2958	24365
May	1681	3911	2786	1500	9879
Jun	1981	3640	2356	747	8725
Jul	2667	8955	3971	1698	17292
Aug	3831	10066	5228	2227	21352
Sep	4128	12459	6518	2632	25737
Oct	5245	17180	9416	4233	36074
Nov	1977	8170	3398	1235	14779
Dec	6011	12664	5992	3048	27715
<b>Total</b>	<b>42530</b>	<b>126009</b>	<b>63212</b>	<b>26610</b>	<b>258361</b>

<sup>\*</sup>Since space is a limiting factor in Tables 6, flag country appearing in these tables is included based on their catch totals. The remaining flags are classified under “OTHERS”. Flag countries with only one vessel are automatically placed under “OTHERS” to preserve the confidentiality of data pertaining to the vessel. In 2010 “OTHERS” included Mayotte and Thailand and in 2011 “OTHERS” included Mayotte only.

**TABLE 7. Comparative statistics of effort by purse seiners by Country in the Western Indian Ocean**  
**Database closed on**  
**(Units: Fishing Day)**

**Year 2010**

MONTH	France	Spain	Seychelles	Others <sup>*</sup>	Total
Jan	195	357	245	110	906
Feb	168	270	195	79	712
Mar	202	327	190	70	789
Apr	188	323	180	75	767
May	185	288	172	44	688
Jun	121	306	143	81	651
Jul	157	305	186	64	712
Aug	201	356	213	75	845
Sep	174	330	185	97	786
Oct	162	339	214	83	798
Nov	168	312	204	84	769
Dec	212	365	196	123	896
<b>Total</b>	<b>2132</b>	<b>3879</b>	<b>2323</b>	<b>985</b>	<b>9318</b>

**Year 2011**

MONTH	France	Spain	Seychelles	Others <sup>*</sup>	Total
Jan	165	327	216	118	826
Feb	158	305	157	84	705
Mar	140	341	204	126	810
Apr	161	298	173	107	739
May	183	274	188	117	762
Jun	201	290	163	123	776
Jul	204	372	226	115	917
Aug	197	349	211	105	861
Sep	205	347	224	122	897
Oct	175	325	197	94	791
Nov	127	279	177	59	642
Dec	192	334	211	94	831
<b>Total</b>	<b>2108</b>	<b>3839</b>	<b>2347</b>	<b>1264</b>	<b>9558</b>

<sup>\*</sup> See footnote of table 6.

**TABLE 8. Comparative CPUE of purse seiners by country  
in the Western Indian Ocean  
Database closed on  
(Units: MT/Fishing Day)**

**Year 2010**

MONTH	France	Spain	Seychelles	Others <sup>*</sup>	Total
Jan	20.60	41.87	35.00	18.69	32.63
Feb	22.44	47.92	43.48	23.02	37.94
Mar	18.19	28.63	34.55	15.92	26.25
Apr	20.27	29.37	24.22	16.49	24.66
May	15.49	27.40	14.23	16.96	20.25
Jun	29.87	31.53	25.43	20.48	28.51
Jul	21.57	26.79	33.26	17.70	26.52
Aug	27.38	33.11	31.30	26.45	30.70
Sep	26.00	52.87	35.54	22.19	39.05
Oct	31.81	48.05	44.57	19.53	40.85
Nov	21.88	37.32	40.32	17.98	32.62
Dec	14.77	21.22	23.14	15.80	19.37
<b>Total</b>	<b>22.10</b>	<b>35.42</b>	<b>32.63</b>	<b>19.26</b>	<b>29.97</b>

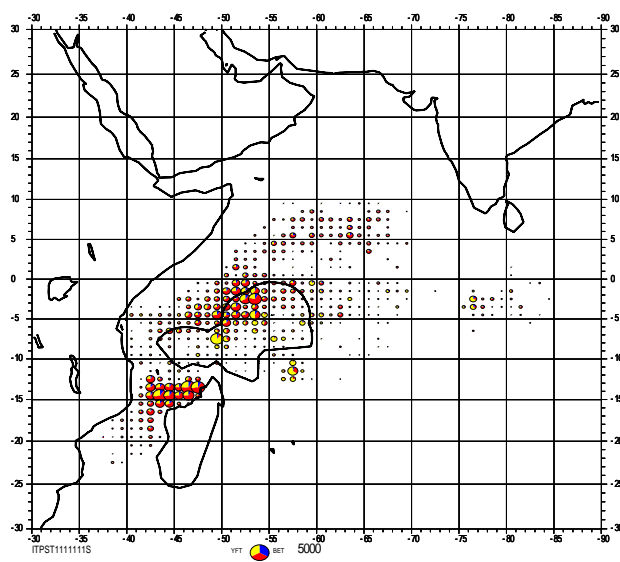
**Year 2011**

MONTH	France	Spain	Seychelles	Others <sup>*</sup>	Total
Jan	32.13	43.26	38.26	16.71	35.94
Feb	20.82	43.54	35.07	27.63	34.65
Mar	17.37	26.55	23.54	16.29	22.62
Apr	24.59	41.98	28.60	27.67	32.98
May	9.20	14.27	14.81	12.83	12.97
Jun	9.86	12.57	14.48	6.09	11.25
Jul	13.06	24.09	17.60	14.72	18.86
Aug	19.43	28.84	24.82	21.30	24.79
Sep	20.17	35.93	29.13	21.53	28.68
Oct	29.99	52.88	47.90	44.92	45.63
Nov	15.56	29.33	19.16	20.79	23.01
Dec	31.31	37.95	28.35	32.32	33.34
<b>Total</b>	<b>20.17</b>	<b>32.83</b>	<b>26.94</b>	<b>21.06</b>	<b>27.03</b>

<sup>\*</sup>See footnote of table 6.

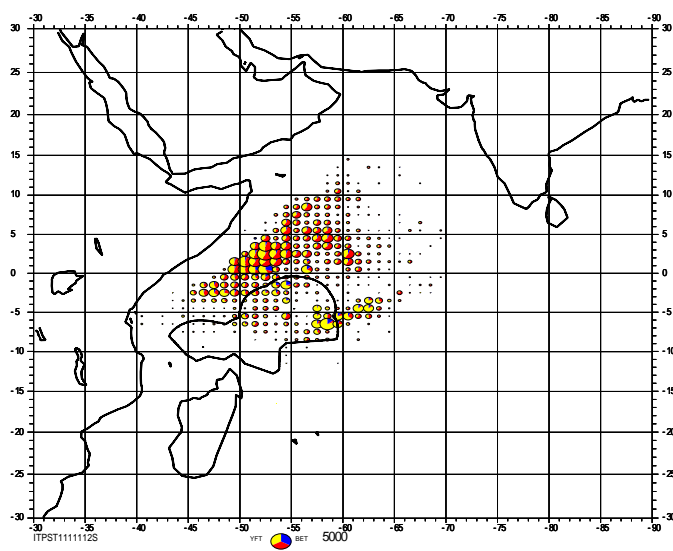
# MAP 1.FISHING GROUNDS EXPLOITED BY PURSE SEINERS IN THE WESTERN INDIAN OCEAN BY 1° SQUARE

First Semester 2011



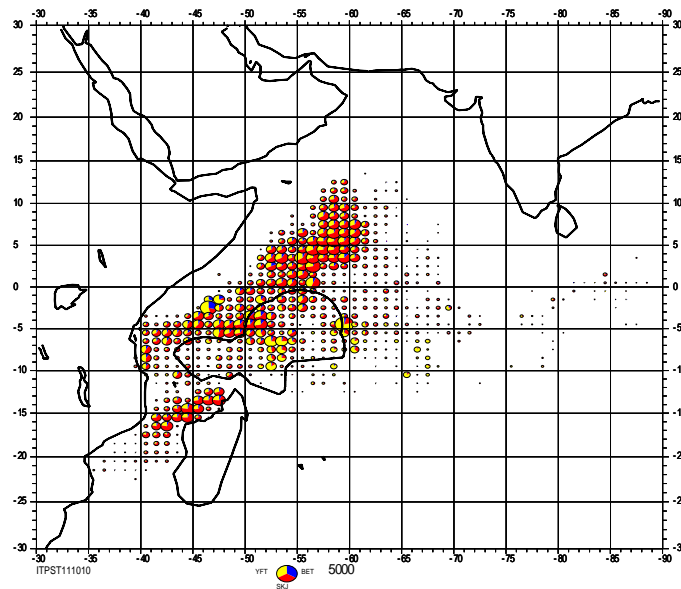
# MAP 2. FISHING GROUNDS EXPLOITED BY PURSE SEINERS IN THE WESTERN INDIAN OCEAN BY 1° SQUARE

Second Semester 2011



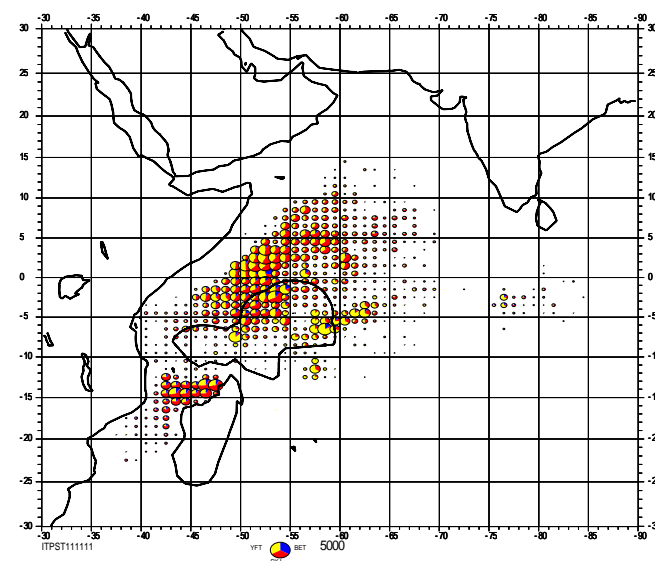
### MAP 3. FISHING GROUNDS EXPLOITED BY PURSE SEINERS IN THE WESTERN INDIAN OCEAN BY 1° SQUARE

Whole Year 2010



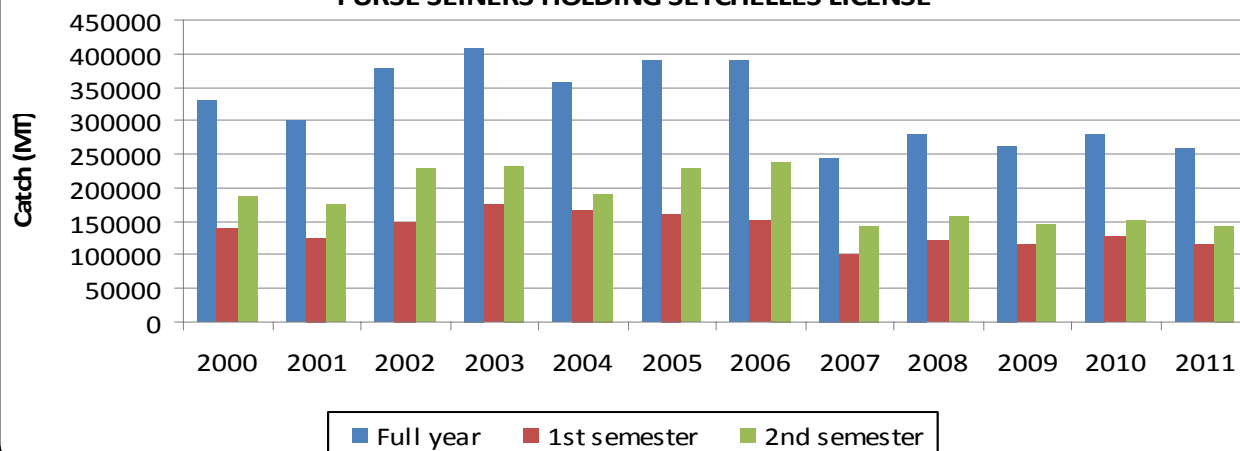
### MAP 4. FISHING GROUNDS EXPLOITED BY PURSE SEINERS IN THE WESTERN INDIAN OCEAN BY 1° SQUARE

Whole Year 2011



**FIGURE 1**  
**CATCH 2000-2011**

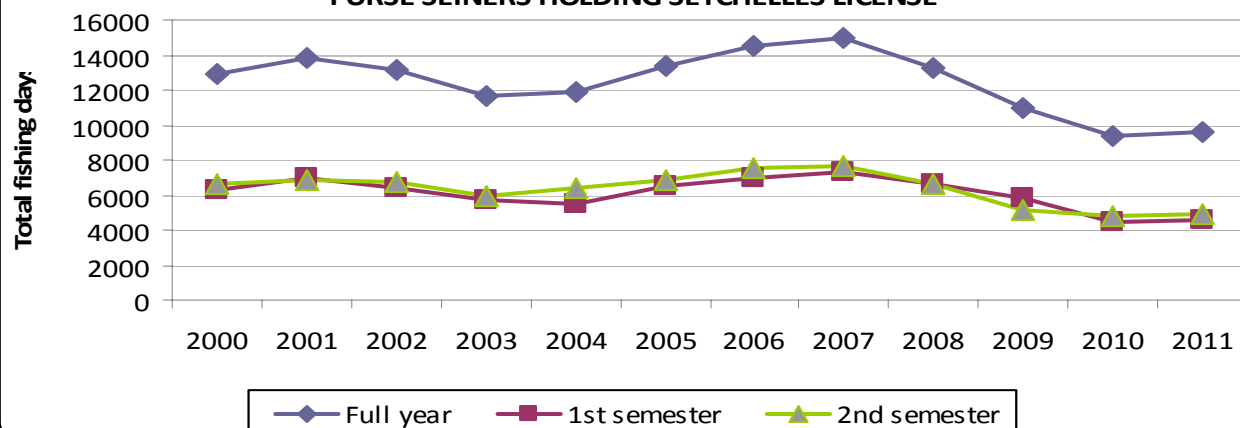
**PURSE SEINERS HOLDING SEYCHELLES LICENSE**



**FIGURE 2**

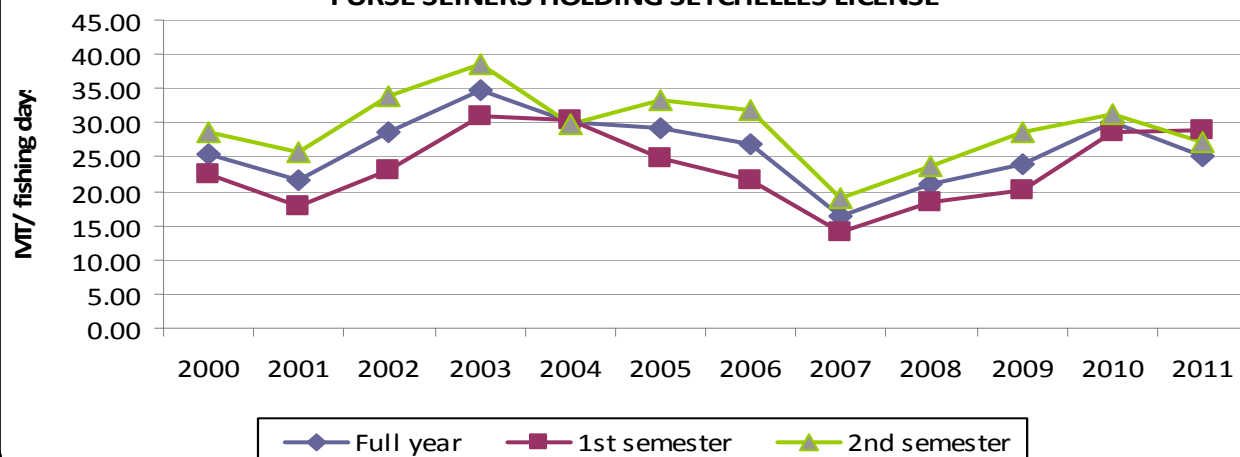
**FISHING EFFORT 2000-2011**

**PURSE SEINERS HOLDING SEYCHELLES LICENSE**

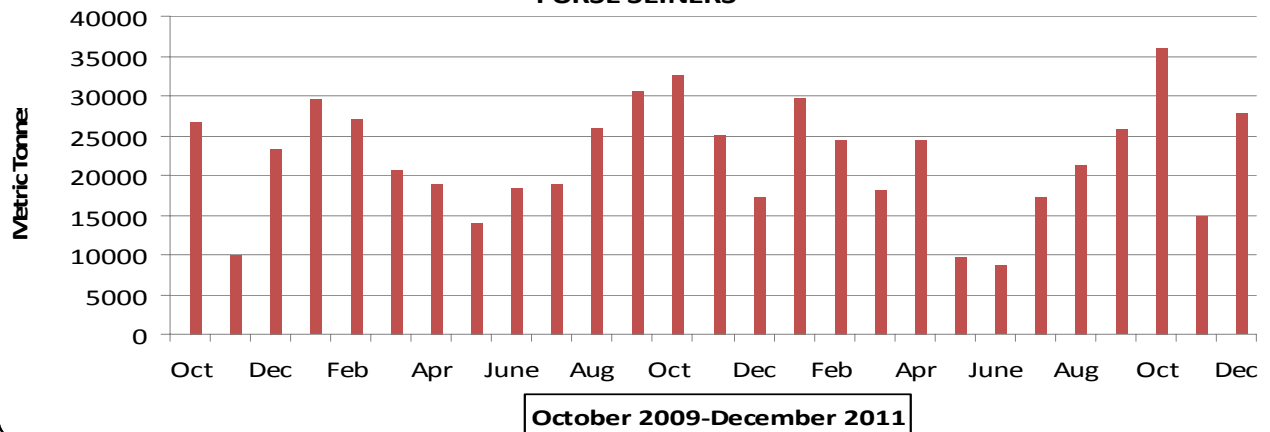


**FIGURE 3**  
**CPUE 2000-2011**

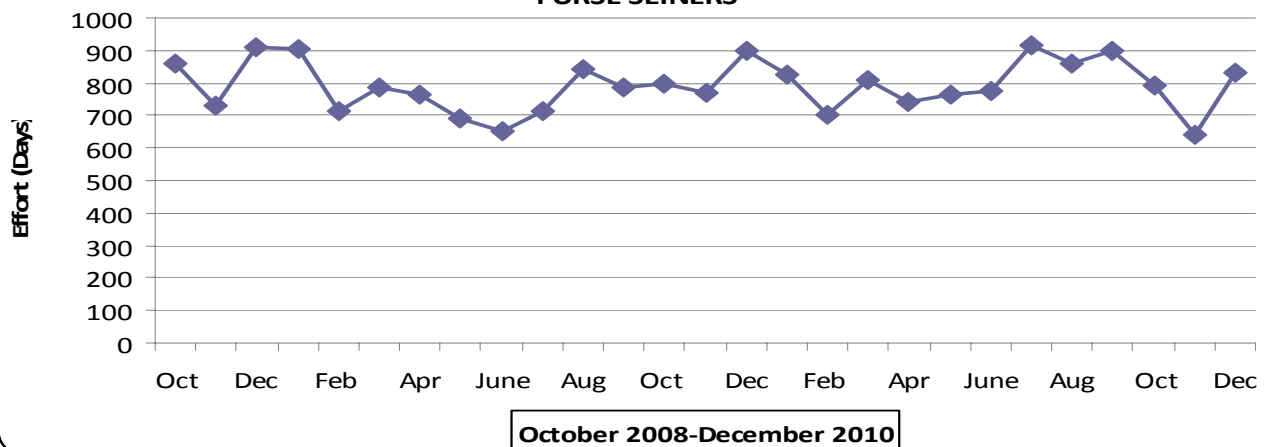
**PURSE SEINERS HOLDING SEYCHELLES LICENSE**



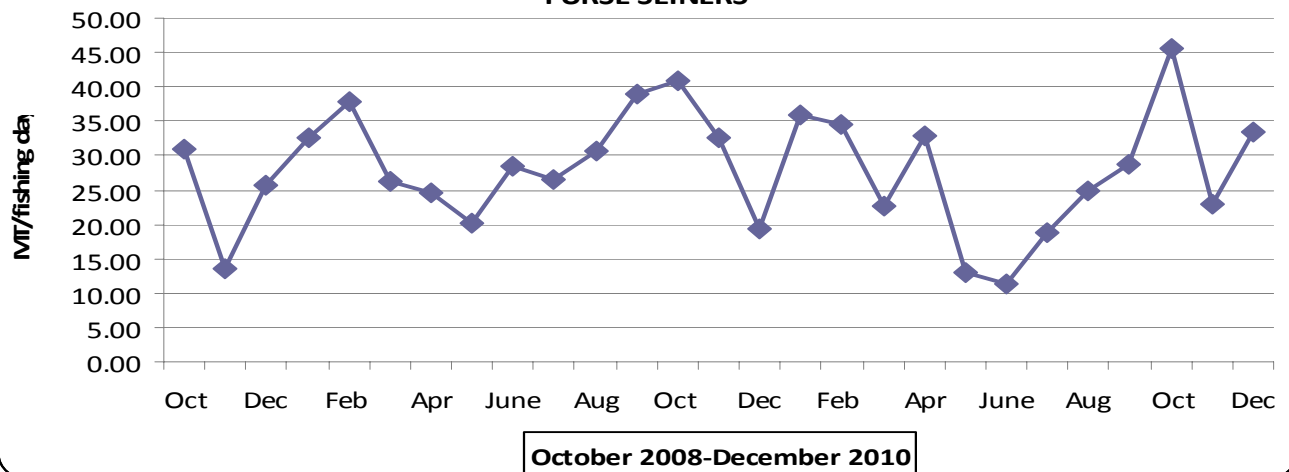
**FIGURE 4**  
**WIO CATCH: OCTOBER 2009-DECEMBER 2011**  
**PURSE SEINERS**



**FIGURE 5**  
**WIO EFFORT: OCTOBER 2009-DECEMBER 2011**  
**PURSE SEINERS**



**FIGURE 6**  
**WIO CPUE: OCTOBER 2009-DECEMBER 2011**  
**PURSE SEINERS**



## **Longline**

Table 9 provides the summary of catch and effort reported by longliners licensed to operate inside of the Seychelles EEZ for the whole years 2010 and 2011.

Tables 10.1, 10.2, and 10.3 show the longliners' catch for the Seychelles, Taiwan POC, and Oman.

Figure 7, 8 and 9 illustrate the catch, effort and CPUE of longliners from October 2009 to December 2011.

Maps 5 and 6 show the distribution of reported catch of longliners by 1° square in the WIO for the first and second semester of 2011 respectively.

Maps 7 and 8 illustrate the distribution of reported catches of longliners for the whole of 2010 and 2011 respectively.

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

**Year: 2010**

MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS	CATCH RATE	YELLOWFIN		BIGEYE		SWORDFISH		OTHERS		TOTAL	CUMUL
					Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	22	31	2422463	0.34	42	5	608	75	54	7	106	13	812	812
Feb	21	27	1552054	0.32	33	6	332	66	40	8	97	19	502	1314
Mar	21	23	1567047	0.39	35	6	367	61	47	8	152	25	605	1919
Apr	17	24	1811683	0.43	55	7	351	45	48	6	316	41	776	2695
May	14	22	1560359	0.37	37	6	124	21	29	5	385	66	580	3274
Jun	9	19	1760046	0.36	42	7	165	26	30	5	395	62	635	3909
Jul	4	18	1685897	0.41	46	7	254	37	38	6	342	50	685	4594
Aug	4	15	1050883	0.39	24	6	154	38	36	9	193	47	410	5004
Sep	7	14	743558	0.39	44	15	115	40	18	6	112	39	289	5294
Oct	23	31	1691053	0.39	113	17	371	57	35	5	131	20	653	5946
Nov	38	49	3147701	0.43	210	16	882	66	49	4	196	15	1341	7287
Dec	43	51	3229935	0.41	164	12	882	67	60	5	206	16	1316	8603
	<b>19</b>	<b>27</b>	<b>22222680</b>	<b>0.39</b>	<b>845</b>	<b>10</b>	<b>4604</b>	<b>54</b>	<b>484</b>	<b>6</b>	<b>2631</b>	<b>31</b>	<b>8603</b>	

**Year: 2011**

MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS	CATCH RATE	YELLOWFIN		BIGEYE		SWORDFISH		OTHERS		TOTAL	CUMUL
					Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	42	23	1638615	0.32	46	9	367	70	39	7	69	13	522	522
Feb	41	20	1118905	0.31	28	8	278	80	16	5	25	7	348	870
Mar	41	15	778624	0.29	19	8	145	63	6	3	58	25	229	1099
Apr	38	19	1345144	0.38	28	5	175	35	14	3	283	56	504	1604
May	19	19	1639696	0.52	45	5	390	46	31	4	380	45	854	2457
Jun	5	18	1417217	0.46	66	10	249	38	31	5	300	46	650	3108
Jul	-	19	1325911	0.52	105	15	305	44	34	5	249	36	696	3803
Aug	-	16	1229377	0.54	147	22	322	49	46	7	147	22	664	4467
Sep	25	20	1206958	0.47	115	20	338	60	45	8	68	12	567	5034
Oct	49	21	1541144	0.52	232	29	407	51	51	6	104	13	797	5832
Nov	52	46	2077185	0.53	313	28	616	56	49	4	123	11	1104	6936
Dec	52	33	2104982	0.56	199	17	790	66	57	5	140	12	1189	8125
	<b>36</b>	<b>22</b>	<b>17423758</b>	<b>0.47</b>	<b>1343</b>	<b>16</b>	<b>4383</b>	<b>51</b>	<b>419</b>	<b>5</b>	<b>1946</b>	<b>23</b>	<b>8125</b>	

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

**Country: SEYCHELLES**

**Year: 2010**

MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS	CATCH RATE	YELLOWFIN		BIGEYE		SWORDFISH		OTHERS		TOTAL	CUMUL
					Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	5	24	1917198	0.34	28	4	499	76	46	7	86	13	660	660
Feb	5	22	1388173	0.33	22	5	303	67	36	8	90	20	452	1112
Mar	5	22	1555283	0.39	35	6	365	61	46	8	152	25	602	1714
Apr	4	24	1811683	0.43	55	7	351	45	48	6	316	41	776	2490
May	4	22	1560359	0.37	37	6	124	21	29	5	385	66	580	3070
Jun	1	19	1760046	0.36	42	7	165	26	30	5	395	62	635	3704
Jul	-	18	1685897	0.41	46	7	254	37	38	6	342	50	685	4389
Aug	-	15	1050883	0.39	24	6	154	38	36	9	193	47	410	4800
Sep	1	13	736603	0.39	42	15	113	40	18	6	111	39	286	5085
Oct	5	15	1024383	0.37	61	16	212	57	21	6	80	21	376	5461
Nov	8	20	1449667	0.38	68	12	386	70	26	5	71	13	552	6013
Dec	11	23	1689322	0.38	68	11	458	71	34	5	84	13	645	6658
	<b>5</b>	<b>20</b>	<b>17629497</b>	<b>0.38</b>	<b>527</b>	<b>8</b>	<b>3384</b>	<b>51</b>	<b>409</b>	<b>6</b>	<b>2304</b>	<b>35</b>	<b>6658</b>	

**Country: SEYCHELLES**

**Year: 2011**

MONTH	VESSELS LICENSED	VESSELS COVERED	HOOKS	CATCH RATE	YELLOWFIN		BIGEYE		SWORDFISH		OTHERS		TOTAL	CUMUL
					Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	11	23	1638615	0.32	46	9	367	70	39	7	69	13	522	522
Feb	11	20	1118905	0.31	28	8	278	80	16	5	25	7	348	870
Mar	11	15	778624	0.29	19	8	145	63	6	3	58	25	229	1099
Apr	10	19	1345144	0.38	28	5	175	35	14	3	283	56	504	1604
May	6	19	1639696	0.52	45	5	390	46	31	4	380	45	854	2457
Jun	3	18	1417217	0.46	66	10	249	38	31	5	300	46	650	3108
Jul	-	19	1325911	0.52	105	15	305	44	34	5	249	36	696	3803
Aug	-	16	1229377	0.54	147	22	322	49	46	7	147	22	664	4467
Sep	9	20	1206958	0.47	115	20	338	60	45	8	68	12	567	5034
Oct	13	19	1507224	0.52	227	29	398	51	50	6	103	13	781	5815
Nov	13	21	1535268	0.54	219	26	482	58	38	5	86	10	827	6642
Dec	13	19	1591270	0.58	140	15	632	68	45	5	104	11	924	7566
	<b>10</b>	<b>19</b>	<b>16334209</b>	<b>0.46</b>	<b>1184</b>	<b>16</b>	<b>4082</b>	<b>54</b>	<b>396</b>	<b>5</b>	<b>1872</b>	<b>25</b>	<b>7566</b>	

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

**Country: TAIWAN POC**

**Year: 2010**

MONTH	VESSELS	VESSELS	HOOKS	CATCH	YELLOWFIN		BIGEYE		SWORDFISH		OTHERS		TOTAL	CUMUL
	LICENSED	COVERED		RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	16	7	505265	0.30	14	10	109	72	8	5	20	13	151	151
Feb	15	5	163881	0.31	11	21	29	58	4	7	7	14	51	202
Mar	15	1	11765	0.24	0	16	1	39	1	35	0	9	3	205
Apr	12	0	0	0	0	0	0	0	0	0	0	0	0	205
May	9	0	0	0	0	0	0	0	0	0	0	0	0	205
Jun	7	0	0	0	0	0	0	0	0	0	0	0	0	205
Jul	3	0	0	0	0	0	0	0	0	0	0	0	0	205
Aug	3	0	0	0	0	0	0	0	0	0	0	0	0	205
Sep	5	1	6955	0.49	2	51	1	34	0	0	0	14	3	208
Oct	16	15	649469	0.41	51	19	151	57	13	5	50	19	268	476
Nov	28	27	1561084	0.47	139	19	449	62	22	3	114	16	726	1202
Dec	30	27	1468213	0.44	91	14	404	63	24	4	118	18	639	1841
	<b>13</b>	<b>7</b>	<b>4366633</b>	<b>0.42</b>	<b>308</b>	<b>17</b>	<b>1145</b>	<b>62</b>	<b>72</b>	<b>4</b>	<b>311</b>	<b>17</b>	<b>1841</b>	

**Country: TAIWAN POC**

**Year: 2011**

MONTH	VESSELS	VESSELS	HOOKS	CATCH	YELLOWFIN		BIGEYE		SWORDFISH		OTHERS		TOTAL	CUMUL
	LICENSED	COVERED		RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	29	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	28	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	28	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	26	0	0	0	0	0	0	0	0	0	0	0	0	0
May	12	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep	16	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct	34	2	33920	0.50	5	31	9	53	1	5	2	9	17	17
Nov	37	25	553916	0.51	96	34	139	49	11	4	36	13	282	299
Dec	37	16	696713	0.50	74	21	221	63	15	4	41	12	351	650
	<b>21</b>	<b>4</b>	<b>1284549</b>	<b>0.51</b>	<b>175</b>	<b>27</b>	<b>369</b>	<b>57</b>	<b>26</b>	<b>4</b>	<b>79</b>	<b>12</b>	<b>650</b>	

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

**Country: OMAN**

**Year: 2010**

	VESSELS		VESSELS		CATCH	YELLOWFIN		BIGEYE		SWORDFISH		OTHERS		TOTAL	CUMUL
MONTH	LICENSED	COVERED	HOOKS	RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL	
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Oct	1	1	17200	1	1	7	7	77	0	2	1	13	9	9	
Nov	1	1	60150	0.56	2	5	25	73	0	1	7	20	34	43	
Dec	1	1	72400	0.43	5	16	19	63	2	6	4	14	31	74	
	0	0	149750	0.49	7	10	51	69	3	3	12	17	74		

**Country: OMAN**

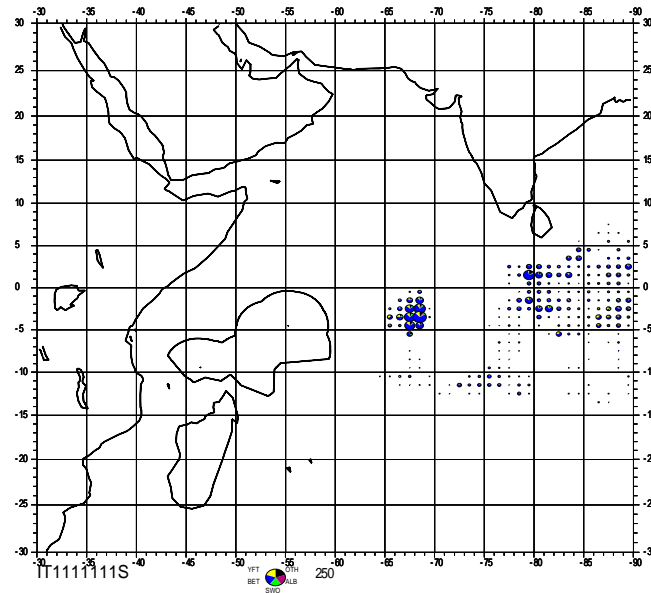
**Year: 2011**

	VESSELS		VESSELS		CATCH	YELLOWFIN		BIGEYE		SWORDFISH		OTHERS		TOTAL	CUMUL
MONTH	LICENSED	COVERED	HOOKS		RATE	Mt	%	Mt	%	Mt	%	Mt	%	MT	TOTAL
Jan	1	0	0		0	0	0	0	0	0	0	0	0	0	0
Feb	1	0	0		0	0	0	0	0	0	0	0	0	0	0
Mar	1	0	0		0	0	0	0	0	0	0	0	0	0	0
Apr	1	0	0		0	0	0	0	0	0	0	0	0	0	0
May	0	0	0		0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0		0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0		0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0		0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0		0	0	0	0	0	0	0	0	0	0	0
Oct	1	0	0		0	0	0	0	0	0	0	0	0	0	0
Nov	1	1	43000		0.41	1	7	11	63	1	4	5	25	18	18
Dec	1	1	42750		0.35	4	27	7	48	2	11	2	13	15	33
	1	0	85750		0.38	5	16	18	56	2	7	6	20	33	

- Please note that no licenses were taken by longline fishing vessels from Japan, China and Republic of South Korea during year 2010 and 2011

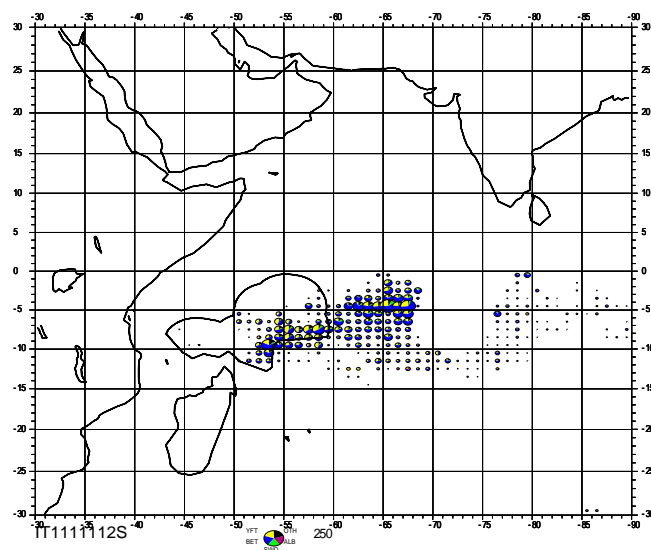
**MAP 5. FISHING GROUNDS EXPLOITED BY LONGLINERS IN THE  
WESTERN INDIAN OCEAN BY 1° SQUARE**

**First semester 2011**



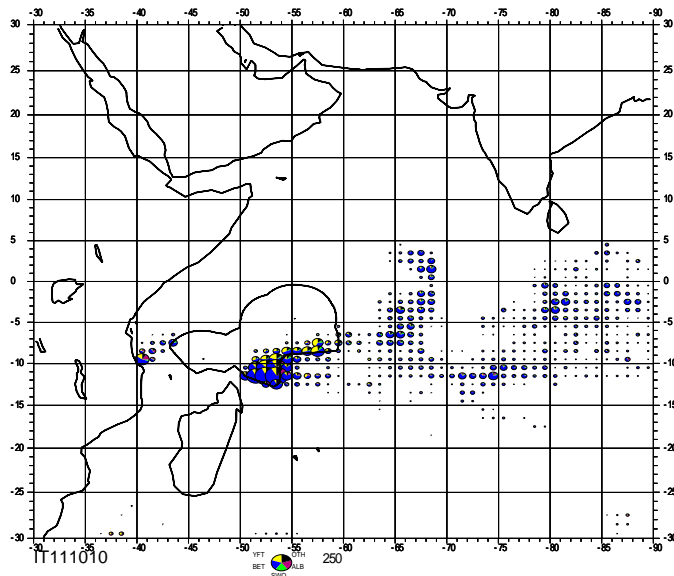
**MAP 6. FISHING GROUNDS EXPLOITED BY LONGLINERS IN THE  
WESTERN INDIAN OCEAN BY 1° SQUARE**

**Second semester 2011**



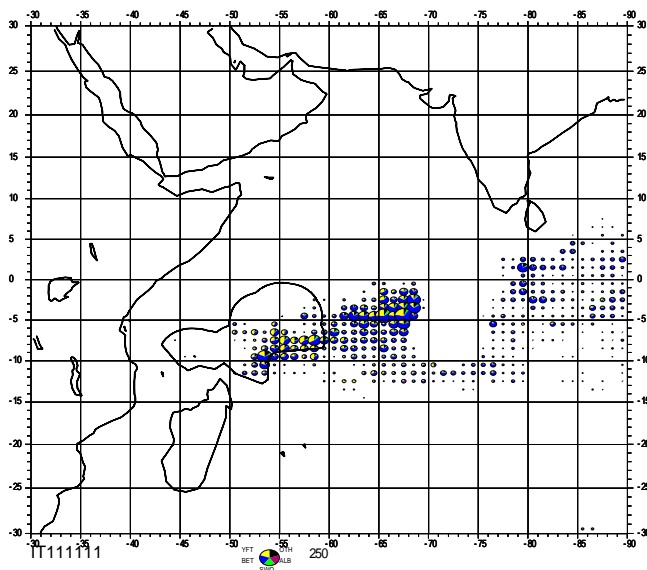
**MAP 7. FISHING GROUNDS EXPLOITED BY LONGLINERS IN THE  
WESTERN INDIAN OCEAN BY 1° SQUARE**

**Whole year 2010**

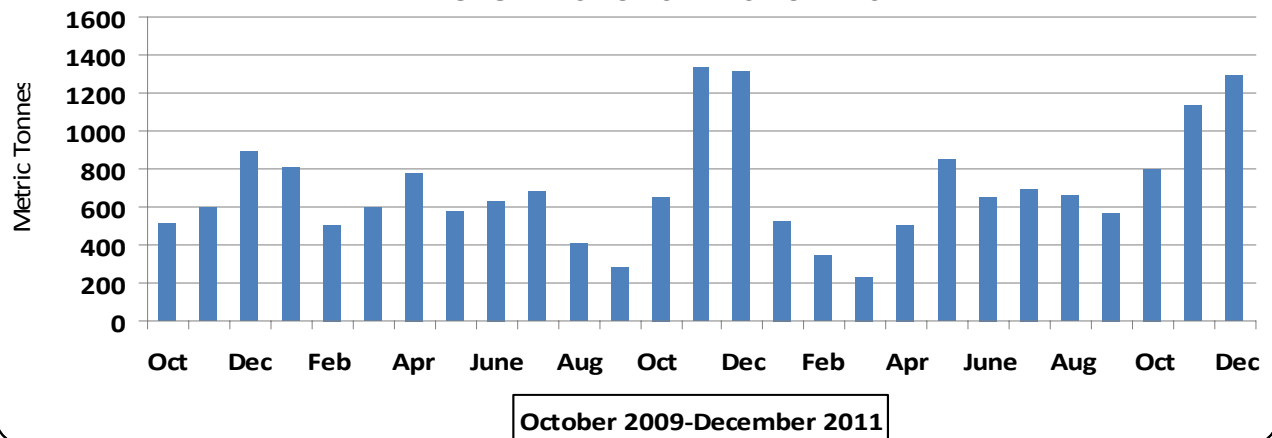


**MAP 8. FISHING GROUNDS EXPLOITED BY LONGLINERS IN THE  
WESTERN INDIAN OCEAN BY 1° SQUARE**

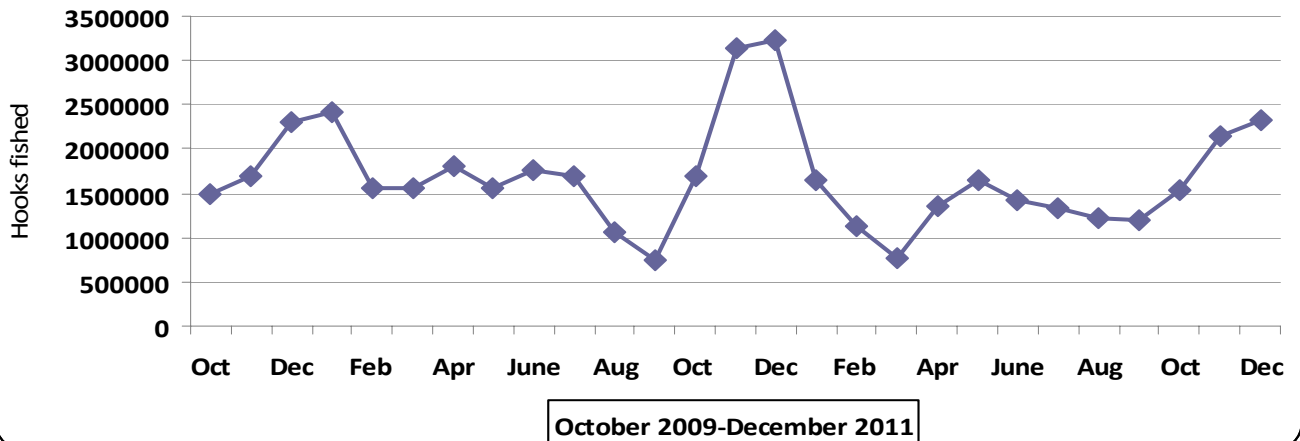
**Whole year 2011**



**FIGURE 7**  
**CATCH: LAST 27 MONTHS**  
**ALL LONGLINERS LICENSED IN SEYCHELLES**



**FIGURE 8**  
**EFFORT: LAST 27 MONTHS**  
**ALL LONGLINERS LICENSED IN SEYCHELLES**



**FIGURE 9**  
**CPUE: LAST 27 MONTHS**  
**ALL LONGLINERS LICENSED IN SEYCHELLES**

