

TABLES/TABLEAUX

Table 2.2.1a: Catches of *Sardina pilchardus* (1990–2004) by zones, fleet and year (weight in tonnes)/Captures de *Sardina pilchardus* (1990-2004) par zones, flottilles et année (poids en tonnes)

Zone	Fleet	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
North	Moroccan coastal purse-seiners	15478	17261	18745	24496	16643	16661	11497	7154	5567	4277	6790	6302	18516	20655	21451	
	Total North	15478	17261	18745	24496	16643	16661	11497	7154	5567	4277	6790	6302	18516	20655	21451	
A (32°N - 29°N)	Moroccan coastal purse-seiners	48881	33643	46199	54145	30838	19381	3546	16237	33186	21814	29694	45725	23206	74578	60471	
	Total A	48881	33643	46199	54145	30838	19381	3546	16237	33186	21814	29694	45725	23206	74578	60471	
B (29°N - 26°N)	Moroccan coastal purse-seiners	223714	261757	197939	253322	399051	477947	354820	423268	347965	370164	485124	699246	610872	517271	473987	
	Spanish purse-seiners	58481	100319	28071	2218	12790	89	25									
	Total B	282195	362076	226010	255540	411841	478036	354845	423268	347965	370164	485124	699246	610872	517271	473987	
C (26°N - South)	Moroccan coastal purse-seiners & RSW	28450	33727	31919	30127	18880	27561	8439	37951	45355	18715	1448	3118	21527	43903	76249	
	Spanish purse-seiners	66075	16229	68759	112243	67800	13714	125813	113053	138166	55726						
	Ukraine and other pelagic trawlers ⁽⁵⁾							30188	7474	16861	44093	36127	14156			476	
	Russian pelagic trawlers ⁽³⁾	356203	262579	144627	67523	53845	45417	53121	24630	5100	4762						2902
	Other pelagic trawlers ⁽²⁾	315479	342261	184374	78532	45860	45276										
	Others Mauritania ⁽⁴⁾							10356	15139	8118	7144	11952	4988	9783	32853	25359	
	European Union ⁽⁴⁾							1223	9255	11484	4134	11593	13644	27789	50703	55471	
	Senegal (artisanal)		167	123	1	1892	268	0	0	3	1	3	2	507			
Total C	766207	654796	429679	288425	186385	131968	229140	207502	225084	134574	61120	35906	59099	127459	160457		
Total	All fleets and zones	1112762	1067776	720633	622605	645707	646046	599028	654161	611802	530829	582728	787178	711693	739963	716366	

(1) Data obtained from COPACE/PACE SÉRIES 90/50 Tables A 3 (page 31) and A 7 (page 35).

(2) Data obtained from COPACE/PACE SÉRIES 97/60 Table 9 page 15.

(3) Data from 1983-1995 obtained from COPACE/PACE/SÉRIES 97/60 Table 9, Page 15. For the period 1996–1999. The data are Russian statistics from statistical subdivisions 34.1.3 and 34.3.1. For these years the Russian Federation did not fish in Senegal.

(4) Data obtained from IMROP statistics.

(5) Moroccan statistics (INRH).

Table 2.2.1b: Effort of *Sardina pilchardus* (1990–2004) by zones, fleet and year/Effort de *Sardina pilchardus* (1990-2004) par zones, flottilles et année

Zone	Fleet	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
North	Moroccan coastal purse-seiners ⁽¹⁾	1675	1943	3160	3189	2865	3046	1872	936	800	(**)					
A (32°N - 29°N)	Moroccan coastal purse-seiners ⁽¹⁾	7330	4605	5848	6829	4135	1943	578	1530	2364	5122	8797	3674	4012	6847	7440
B (29°N - 26°N)	Moroccan coastal purse-seiners ⁽¹⁾	7023	10085	9163	10404	16375	20693	19361	9365	10248	14102	23367	15512	28392	18780	26945
	Spanish purse-seiners ⁽²⁾	407	782	477	20	259	2	1								
C (26°N - South)	Moroccan coastal purse-seiners ⁽¹⁾	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180	805	1762
	Moroccan purse-seiners RSW ⁽²⁾													346	342	479
	Spanish purse-seiners ⁽²⁾	416	187	546	715	471	115	910	814	870	567					
	Ukraine and other pelagic trawlers ⁽²⁾⁽⁴⁾	NA	NA	NA	93	1194	2323	2239	3080	5797	4803	3982	2218			479
	Russian Federation ⁽²⁾⁽⁴⁾				1476	2818	4162	2952	4411	7399	6524					1466
	All fleets ⁽²⁾⁽⁵⁾	15188	14199	7497	5027	3389	2297									
	Others Mauritania ⁽³⁾	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8014	8076	7344	8076	34962
	European Union ⁽⁴⁾							715	940	1300	1538	1308	1857	2178	2027	2518

(1) trips with sardine catches

(2) fishing days

(3) do not target sardine

(4) Morocco-INRH

(5) standardized effort (RTMS, from COPACE/PACE SERIES 97/61 p. 17, table 13)

(**) not yet available

NA: not available

Table 2.4.1 Sampling intensity of *Sardina pilchardus* 2004/Intensité d'échantillonnage de *Sardina pilchardus* 2004

Country	Fleet	Q1	Q2	Q3	Q4	2004	
country x	fleet y	total catch in tonnes					
		number of samples					
		number of fish measured					
		number of fish aged					
Morocco Zone North	Moroccan	NOT AVAILABLE TO THE WORKING GROUP					
Morocco Zone A	Moroccan	9705	8404	25006	17357	60471	
		76	42	8	29	155	
		5566	2877	750	2821	12014	
		130	78	32	57	297	
Morocco Zone B	Moroccan	96222	95080	117649	165035	473987	
		104	108	101	119	432	
		5764	6985	6062	7912	26723	
		530	562	360	509	1961*	
Zone C, north of C. Blanc	Moroccan	2434	7683	39289	26843	76249	
		0	6	9	5	20	
		0	219	407	239	865	
		0	40	20	20	80*	
	Russian Federation	1540	134	68	1160	2902	
		2		43	57	110	
		646		9776	12324	22746	
				544	363	907	
	Ukraine & others				476	476	
		NO SAMPLING					
	Mauritania	EU	13877	16399	1761	23445	55482
			47	49	0	21	117
10241			10044	0	3502	23787	
NA			NA	NA	NA	NA	
Russian Federation		5025	1305	133	3332	9795	
		32		2		34	
		9195		100		9295	
		589		102			
Ukraine & others		9672	6985	1287	3601	21545	
		NO SAMPLING					
artisanal		NO SAMPLING					
		NO SAMPLING					
Senegal	industrial	NO SAMPLING					
	artisanal	NO SAMPLING					
The Gambia	industrial	NO SAMPLING					
	artisanal	NO SAMPLING					

* Research surveys.

Table 2.5.1a: Age length key Zone A+B 2003 (percentage) (Moroccan catches)/Clé taille-âge Zone A+B 2003 (en pourcentage) (captures marocaines)

Zone A+B % 2003							
length/age	0	1	2	3	4	5	6
9.5							
10.0							
10.5							
11.0							
11.5							
12.0	100						
12.5	100						
13.0	100						
13.5	100						
14.0	100						
14.5	100						
15.0	100						
15.5	100						
16.0	94	6					
16.5	97	3					
17.0	98	3					
17.5	94	6					
18.0	81	19					
18.5	85	15					
19.0	53	47					
19.5	52	48					
20.0	21	79					
20.5	18	68	14				
21.0	12	52	36				
21.5		38	62				
22.0		38	62				
22.5		13	87				
23.0		13	87				
23.5		3	78	19			
24.0		4	68	29			
24.5			65	35			
25.0			61	39			
25.5			43	55	2		
26.0			23	77	0		
26.5			5	74	21		
27.0			4	38	58		
27.5				8	79	13	
9.5				7	51	42	
10.0					5	76	20
10.5						85	15
11.0						14	86
11.5						50	50
12.0							100

Table 2.5.1b,c: Age length key Zone C 2003 et 2004 (percentage)(Moroccan catches)/Clé
taille-âge Zone C 2003 et 2004 (en pourcentage) (captures marocaines)

Zone C % 2003							
length/age	b)						
	0	1	2	3	4	5	6
9.5							
10.0							
10.5							
11.0							
11.5							
12.0							
12.5							
13.0							
13.5		100					
14.0		100					
14.5		100					
15.0		100					
15.5		100					
16.0		100					
16.5		100					
17.0		100					
17.5		100					
18.0		80	20				
18.5		60	40				
19.0		45	55				
19.5			75	25			
20.0			75	25			
20.5			74	26			
21.0			69	31			
21.5			43	53	3		
22.0			30	67	4		
22.5			8	73	15	4	
23.0			3	77	16	3	
23.5				37	57	7	
24.0				29	52	19	
24.5				11	47	42	
25.0					45	55	
25.5					38	63	
26.0					13	50	38
26.5						40	60
27.0							100
27.5							100

Zone C % 2004							
length/age	c)						
	0	1	2	3	4	5	6
9.5	100						
10.0	100						
10.5	100						
11.0	100						
11.5	100						
12.0	100						
12.5	100						
13.0	100						
13.5	100						
14.0	100						
14.5	69	31					
15.0	70	30					
15.5	78	22					
16.0	29	71					
16.5		100					
17.0		100					
17.5		100					
18.0		83	17				
18.5		90	10				
19.0		82	18				
19.5		58	42				
20.0		64	29	7			
20.5		71	12	12	6		
21.0		50	38	6	6		
21.5		36	36	18	9		
22.0		7	47	40	7		
22.5		14	64	14	7		
23.0			58	17	25		
23.5		6	28	56	11		
24.0		8	8	33	42	8	
24.5			13	50	25	13	
25.0			14	43	43		
25.5			14	43	29	14	
26.0			19	50	19	13	
26.5				43	36	21	
27.0				38	38	13	13
27.5					50	50	
n	149	104	64	67	41	12	1
Mean length (cm)	12.8	19.0	22.3	24.5	24.9	26.1	27.3
SD	1.7	2.1	2.0	1.8	1.7	1.1	

Table 2.5.2a: Catch-at-age (thousands of individuals) of *Sardina pilchardus* in Zone A+B/Capture par âge (milliers d'individus) de *Sardina pilchardus* en Zone A+B

Age/year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0	45270	15128	38261	2999957	1869433	1882528	1596381	8566572	3058732	1045264	3422264	1630954	3626884	2918742	1358525
1	589629	1636731	450608	1777920	4717104	3757581	3908056	6083372	5898782	2346296	2166548	2729404	4118047	2891346	2293358
2	1826829	1530553	2643529	954213	1824105	2723592	1646273	1199298	2111017	1871809	1970485	4450602	2591126	2461023	3719324
3	1222857	994532	333241	253858	454180	1131255	997641	252393	187031	832765	1483769	2671350	655140	1304157	1006405
4	516916	486308	113119	205332	264557	497298	270374	125102	105540	710509	560989	472617	605361	541733	307211
5	386516	302275	23395	292772	122245	177757	333451	145026	84831	488961	266672	259516	176381	195026	71976
6	25909	40272	737	115747	37865	130572	53847	28611	84525	233510	48739	239837		31005	12915
7+	37319	45478	129	24	33	37	32	59	41	27	36	45			
Total	4651245	5051277	3603019	6599823	9289523	10300622	8806054	16400434	11530499	7529140	9919501	12454323	11772939	10343033	8769715

Table 2.5.2b: Mean weight-at-age (grams) of *Sardina pilchardus* in Zone A+B/Poids moyen par âge (grammes) de *Sardina pilchardus* dans la Zone A+B

Age/year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0	0.027	0.037	0.026	0.026	0.031	0.027	0.023	0.022	0.022	0.023	0.025	0.024	0.023	0.026	0.029
1	0.046	0.089	0.054	0.040	0.042	0.041	0.035	0.031	0.035	0.037	0.038	0.038	0.045	0.037	0.045
2	0.065	0.088	0.071	0.053	0.051	0.046	0.044	0.038	0.043	0.051	0.059	0.055	0.058	0.065	0.061
3	0.079	0.097	0.070	0.060	0.068	0.060	0.055	0.048	0.050	0.059	0.074	0.066	0.097	0.095	0.094
4	0.084	0.099	0.081	0.074	0.090	0.074	0.078	0.056	0.060	0.066	0.086	0.076	0.120	0.119	0.116
5	0.090	0.103	0.085	0.085	0.101	0.085	0.092	0.080	0.075	0.072	0.095	0.084	0.139	0.136	0.133
6	0.094	0.114	0.096	0.106	0.105	0.104	0.119	0.106	0.085	0.084	0.108	0.096		0.148	0.147
7+	0.131	0.139	0.114												

The series 1990–2002 after the FAO Working Group 2004/La série 1990–2002 à partir du Groupe de travail FAO 2004.

Table 2.5.3a: Catch-at-age (thousands of individuals) of *Sardina pilchardus* in Zone C/Capture par âge (milliers individus) de *Sardina pilchardus* dans la Zone C

Age/Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0	129		420	68	1741	125	2894	77448	19813	28108	8144	4784	523		
1	889223	624613	588710	106919	55705	41876	62995	551093	1211337	330086	261948	153886	86732	142702	4399
2	2036191	1604457	1961506	623152	664866	170317	417509	741833	979006	541112	258328	151759	177207	258420	179480
3	2658165	2327931	1495437	1971575	1347683	320607	980631	496298	423899	110766	90861	53378	137394	363571	466303
4	2891544	2658842	172164	644966	547308	574014	495336	424345	283838	27746	52950	31107	99051	259917	217335
5	1309369	1130307	1090898	303493	100737	340482	153962	110890	113496	10520	21075	12381	37950	150986	122344
6	314011	233996	298608	100455	6565	89430	7030	41633	7808	2592	1767	1038		28268	13740
7	91165	31124	12199	16051	1726	5595	4197	0	1715	526	381	224			
Total	10189797	8611270	5619942	3766679	2726331	1542446	2124554	2443540	3040911	1051458	695454	408556	538857	1203864	1003601

Table 2.5.3b: Mean weight-at-age (grammes) of *Sardina pilchardus* in Zone C/Poids moyen par âge (grammes) de *Sardina pilchardus* dans la Zone C

Age/Year	1990	1991	1992	1993	1994	1995	1996*	1997	1998	1999*	2000	2001	2002	2003	2004
0	0.018	0.023	0.027	0.020	0.022	0.021	0.024	0.014	0.019	0.027	0.023	0.025	0.026		
1	0.067	0.072	0.070	0.048	0.043	0.046	0.029	0.040	0.051	0.062	0.056	0.059	0.051	0.050	0.057
2	0.081	0.083	0.072	0.072	0.055	0.083	0.068	0.070	0.064	0.077	0.070	0.074	0.100	0.076	0.090
3	0.089	0.089	0.071	0.076	0.059	0.089	0.085	0.094	0.086	0.092	0.089	0.091	0.115	0.105	0.105
4	0.094	0.093	0.113	0.083	0.085	0.105	0.104	0.107	0.117	0.111	0.114	0.112	0.128	0.129	0.125
5	0.102	0.101	0.104	0.091	0.108	0.100	0.117	0.114	0.121	0.119	0.120	0.120	0.147	0.145	0.138
6	0.108	0.101	0.093	0.110	0.102	0.106	0.128	0.124	0.119	0.141	0.130	0.135		0.174	0.166
7+	0.103	0.101	0.131	0.110	0.109	0.109	0.130	0.122	0.132	0.160	0.146	0.153			

Note: 1983-1995, p16 FAO (1997)

* Data for 1990–1995 obtained from Table 11, p.16 of “Groupe de travail *ad hoc* sur les sardines et atelier COPACE sur les méthodes avancées pour l’évaluation des stocks” COPACE/PACE/SÉRIE, No. 97/61. Rome, FAO. 1997.

** Data based on the Spanish information.

Table 3.2.1a: Catches (tonnes) of *Sardinella aurita* (1990–2004) by country, fleet and year/Captures (tonnes) de *Sardinella aurita* (1990–2003) par pays, flottille et année

Country	Fleet	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Morocco Zone North	Moroccan										
Morocco Zone A	Moroccan										
Morocco Zone B	Moroccan										
Zone C, north of C. Blanc	Moroccan										
	Russian Federation	103075	18829	267	3423	1932	5619	1537	13790	15256	23089
	Ukraine & others				101	1386	8939	10796	15770	66237	61243
Mauritania	EU industrial										
	other industrial										
	artisanal								20104	14930	12470
	all (without artisanal)	78645	50425	53756	35436	23409	65175	205756	168062	243672	173423
Senegal	industrial	10761	20290	19586	4499	3455	5948	6610	6024	2423	3525
	artisanal	83661	95114	155869	144944	132109	94845	138732	151112	131394	90108
The Gambia	industrial	2691	933	74	55	6	5	6	21	6	88
	artisanal	6	0	3	2	0	1	6	60	33	36
Total	all fleets	278839	185591	229555	188460	162297	180532	363443	354839	459021	351512

Country	Fleet	2000	2001	2002	2003	2004*
Morocco Zone North	Moroccan					
Morocco Zone A	Moroccan					
Morocco Zone B	Moroccan					
Zone C, north of C. Blanc	Moroccan				94	
	Russian Federation	0	0	0	0	1000
	Ukraine & others	46308	13893	0	0	577
Mauritania	EU industrial				130237	72437
	Russian Federation, Ukraine & others				52517	42138
	artisanal	20186	18878	20624	25672	22055
	all (without artisanal)	177518	162291	170622		
Senegal	industrial	444	1282	1326	409	885
	artisanal	102110	122691	118157	125540	111721
The Gambia	industrial	110	174	215	199	168
	artisanal	5	29	807	605	512
Total	all fleets	326495	300360	291127	335273	251493

* Preliminary

Table 3.2.1b: Catches (tonnes) of *Sardinella maderensis* (1990–2004) by country, fleet and year/Captures (tonnes) de *Sardinella maderensis* (1990-2003) par pays, flottille et année

Country	Fleet	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Morocco Zone North	Moroccan										
Morocco Zone A	Moroccan										
Morocco Zone B	Moroccan										
Zone C, north of C. Blanc	Moroccan										
	Russian Federation	38014	7186		14	8	23	6	55	61	93
	Ukraine & others				0	6	36	43	63	266	246
Mauritania	EU industrial										
	Russian, Ukraine & others										
	artisanal								292	185	579
	all (without artisanal)	28355	7445	14146	8859	5799	16350	41804	23383	35242	17168
Senegal	industrial	6714	9962	14286	8389	4639	10717	7398	9008	4306	3720
	artisanal	68706	69575	74325	76968	46280	46584	114316	82462	89254	116249
The Gambia	industrial	3257	567	15	32	5	4	4	10	6	73
	artisanal	17	0	1	0.8	0	0.5	5	26	31	32
Total	all fleets	145063	94735	102774	94263	56737	73714	163576	115007	129166	137581

Country	Fleet	2000	2001	2002	2003	2004*
Morocco Zone North	Moroccan					
Morocco Zone A	Moroccan					
Morocco Zone B	Moroccan					
Zone C, north of C. Blanc	Moroccan					
	Russian Federation	0	0	0		
	Ukraine & others	0	5957	0		
Mauritania	EU industrial				6186	7279
	Russian Fed., Ukraine & others				18826	11880
	artisanal	2141	1339	2365	0	1402
	all (without artisanal)	4245	23078	20077	14798	
Senegal	industrial	1176	1288	1362	2186	1776
	artisanal	101179	100692	125668	168963	122550
The Gambia	industrial	88	250	375	408	275
	artisanal	6	31	900	883	754
Total	all fleets	106694	131626	148382	212250	145916

*preliminary.

Table 3.2.2: Sardinellas fishing effort (in fishing days and number of trips) for Senegalese artisanal fisheries/Effort de pêche pour les sardinelles (en jours de pêche et nombre de voyages) pour les pêcheries artisanales sénégalaises

Country	Fleet	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Morocco	Russian Federation				1383	1624	1839	713	1331	1602	1721
	Ukraine & others				93	1194	2323	2239	3080	5797	4803
Mauritania	Russian Federation, Ukraine & others		7865	8415	7317	3893	6272	9318	6879	8100	7340
	EU, standardized (Holland)							715	940	1300	1538
Senegal	industrial	239	636	1347	770	344	431	482	598	480	1367
	artisanal*	72800	69174	80000	80555	70322	65377	71365	79102	85099	75974

Country	Fleet	2000	2001	2002	2003	2004**
Morocco	Russian Federation					
	Ukraine & others	3982	2218			
Mauritania	Russian Federation, Ukraine & others	8147	8337	7833	8158	11571
	EU, standardized (Holland)	1308	1857	2178	2085	2006
Senegal	industrial	121	185	153	172	178
	artisanal*	79476	78472	83761	93896	82315

*number of trips

**preliminary

Table 3.4.1: Sampling intensity of *Sardinella aurita* (2004)/Intensité d'échantillonnage de *Sardinella aurita* (2004)

Country	Fleet	Q1	Q2	Q3	Q4	2004
country x	fleet y	total catch in tonnes				
		number of samples				
		number of fish measured				
		number of fish aged				
Morocco Zone North	Moroccan	NO CATCH				
Morocco Zone A	Moroccan	NO CATCH				
Morocco Zone B	Moroccan	NO CATCH				
Zone C, north of C. Blanc	Moroccan	NO CATCH				
	Russian Federation	NO SAMPLING				
	Ukraine & others	NO SAMPLING				
Mauritania	EU	1656	24496	43429	2857	72437
		67	53	97	10	227
		2272	5196	8719	961	17148
		175	177	196	0	548
	Russian Federation, Ukraine & others*	5709	5000	15198	16229	42137
		20	0	0	0	20
		5847	0	0	0	5847
		397	0	0	0	397
	artisanal	5862	6561	7486	4909	24818
		7	9	8		24
		175	177	196	0	548
		175**	177**	196**	0	548**
	Senegal	industrial				
1			1	11	10	23
162			58	952	1324	2496
NO SAMPLING						
artisanal						111721
		21	3	5	14	43
		2106	308	475	1851	4740
		90	88	60	84	322
The Gambia	industrial	NO SAMPLING				
	artisanal	NO SAMPLING				

*Sampling made onboard the Russian vessels.

Note: EU refers to the Netherlands.

**Number of otoliths collected. Not yet read.

Table 3.4.2: Sampling intensity of *Sardinella maderensis* (2004)/Intensité d'échantillonnage de *Sardinella maderensis* (2004)

Country	Fleet	Q1	Q2	Q3	Q4	2004		
Country x	fleet y	total catch in tonnes						
		number of samples						
		number of fish measured						
		number of fish aged						
Morocco Zone North	Moroccan	NO CATCH						
Morocco Zone A	Moroccan	NO CATCH						
Morocco Zone B	Moroccan	NO CATCH						
Zone C, north of C. Blanc	Moroccan	NO CATCH						
	Russian Federation	NO CATCH						
	Ukraine & others	NO CATCH						
Mauritania	EU	1269	495	5479	1162	8405		
		29	10	76	9	124		
		1114	914	6309	982	9319		
	NO SAMPLING							
	Russian Federation, Ukraine & others*	723	91	1840	701	3355		
		4	1	0	0	5		
		1122	318			1440		
		NO SAMPLING						
		NO SAMPLING						
	Senegal	artisanal	NO SAMPLING					
			NO SAMPLING					
			NO SAMPLING					
industrial						1776		
		4	42	11	1	58		
		447	4694	1037	153	6331		
NO SAMPLING								
artisanal						122550		
	16	1	16	27	60			
	1465	112	1638	3058	6273			
NO SAMPLING								
The Gambia	industrial	NO SAMPLING						
	artisanal	NO SAMPLING						

*Sampling made on board the Russian vessels.

Note: EU refers to the Netherlands.

Table 4.2.1a: Catches (tonnes) of *Trachurus trachurus* (1990–2004) by zone, fleet and year/Captures (tonnes) de *Trachurus trachurus* (1990-2003) par zone, flottille et année

Country	Fleet	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Morocco Zone North	Moroccan	7111	4851	7085	12380	9250	11291	2259	3873	3384	5824	7170	5167	6128	8731	10431
Morocco Zone A	Moroccan	4948	5231	9071	10255	12863	9773	6695	3149	1899	4389	4634	4482	2858	5192	3368
Morocco Zone B	Moroccan	10	10	29	12	110	111	90	533	1346	688	1062	281	165	459	424
Zone C, north of C. Blanc	Moroccan									3	3	7	1	0		11
	Russian Federation				2020	2523	6897	4024	4736	10147	13418	0	0	0		51223
	Ukraine & others				320	16254	21032	18644	26649	47630	43784	50175	45812	8		27916
Mauritania	UE														1050	684
	others														48625	75295
	all	33000	11949	20316	23250	15172	22492	16054	11558	20601	15051	5132	14206	32203	49675	75979
Senegal	industrial															
	artisanal															
The Gambia	industrial															
	artisanal															
Total	all fleets	45069	22041	36501	48237	56172	71596	47766	50498	85010	83157	68180	69949	31916	64057	169350

Table 4.2.1b: Catches (tonnes) of *Trachurus trecae* (1990–2004) by zone, fleet and year/Captures (tonnes) de *Trachurus trecae* (1990-2003) par zone, flottille et année

Country	Fleet	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Morocco Zone North	Moroccan															
Morocco Zone A	Moroccan															
Morocco Zone B	Moroccan															
Zone C, north of C. Blanc	Moroccan															
	Russian Federation				505	631	1724	1006	1184	2537	3355	0	0	0		595.4
	Ukraine & others				80	4064	5258	4661	6662	11908	10946	42481	38788	0		
Mauritania	UE														4471	18938
	others														94077	159239
	all	57000	94398	116995	86769	56850	97272	70274	52320	91455	65206	128776	170235	149014	98547	178176
Senegal	industrial	33	234	877	14614	10597	15816	13397	11666	13888	2600	0	7	8	3	
	artisanal	1525	3957	2218	3343	962	1382	1045	509	2804	1765	460	788	4537	3680	2246
The Gambia	industrial	452	747	14	542	166	181	176	383	90	170	111	132	140	110	125
	artisanal	30	60	27	49	21	64	60	13	38	103	78	93	150	145	140
Total	all fleets	59040	99396	120131	105902	73291	121697	90619	72737	122720	84145	171906	210043	168339	102485	181283

Table 4.2.1c: Catches (tonnes) of *Caranx rhonchus* (1990–2004) by zone, fleet and year/Captures (tonnes) de *Caranx rhonchus* (1990-2003) par zone, flottille et année

Country	Fleet	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Morocco Zone North	Moroccan															
Morocco Zone A	Moroccan															
Morocco Zone B	Moroccan															
Zone C, north of C. Blanc	Moroccan															
	Russian Federation															
	Ukraine & others															
Mauritania	UE														1733	891
	others														30038	37779
	all	22000	6487	1927	9451	6235	345	630	1236	1386	648	43290	21662	66103	31771	38670
Senegal	industrial	6	0	10066	867	564	601	288	1742	140	16251	5	0	5	0	
	artisanal	4725	2907	3650	4007	2590	3574	2980	2934	4407	8359	2383	3236	5823	3486.6	4657
The Gambia	industrial	83	0	161	32	9	7	4	57	1	98	81	109	115	76	89
	artisanal	94	44	44	59	56	166	172	77	59	87	55	60	134	126	111
Total	all fleets	26908	9438	15848	14416	9454	4693	4074	6046	5993	25443	45814	25067	72180	35459	43527

Table 4.4.1: Sampling intensity of *Trachurus trachurus* (2004)/Intensité d'échantillonnage de *Trachurus trachurus* (2004)

Country	Fleet	Q1	Q2	Q3	Q4	2004
country x	fleet y	total catch in tonnes				
		number of samples				
		number of fish measured				
		number of fish aged				
Morocco Zone North	Moroccan	1736	3966	3349	1379	10431
Morocco Zone A	Moroccan	686	1483	1049	150	3368
Morocco Zone B	Moroccan	80	129	114	100	424
Zone C, north of C. Blanc	Moroccan	1	1	0	8	11
	Russian Federation	4917	2695	22268	21344	51224
		142	78	68	74	362
		61426	12544	17391	23559	114920
		249	640	653	449	1991
	Ukraine & others			3424	24492	27916
Mauritania	EU	443	95	82	64	684
		12	0	1	0	13
		651	0	108	0	759
	Russian federation, Ukraine & others	22786	31775	11692	9041	75295
		104	6	0	0	110
		32694	1826	0	0	34520
		752	276	0	0	1028
	artisanal	NA				
Senegal	industrial	NO SAMPLING				
	artisanal					
		NO SAMPLING				
The Gambia	industrial					
	artisanal					

Table 4.4.2: Sampling intensity of *Trachurus trecae* (2004)/Intensité d'échantillonnage de *Trachurus trecae* (2004)

Country	Fleet	Q1	Q2	Q3	Q4	2004
country x	fleet y	total catch in tonnes				
		number of samples				
		number of fish measured				
		number of fish aged				
Morocco Zone North	Moroccan	NO SAMPLING				
Morocco Zone A	Moroccan					
Morocco Zone B	Moroccan					
Zone C, north of C. Blanc	Moroccan					
	Russian Federation	0	8	272	315	595
		0	14	57	72	143
		0	1926	12963	22873	37762
		0	164	804	645	1613
	Ukraine & others	NO SAMPLING				
Mauritania	EU	14023	3009	1327	578	18938
		36	35	26	11	108
		5121	3955	1486	1259	11821
		NA	NA	NA	NA	NA
	Russian Federation, Ukraine & others	47370	89282	14957	7630	159239
		159	25	0	0	184
		50010	8436	0	0	58446
		1241	391	356	0	1988
	artisanal	NO SAMPLING				
Senegal	industrial	NO SAMPLING				
	artisanal					2246
The Gambia	industrial					125
	artisanal					140

Table 4.4.3: Sampling intensity of *Caranx rhonchus* (2004)/Intensité d'échantillonnage de *Caranx rhonchus* (2004)

Country	Fleet	Q1	Q2	Q3	Q4	2004
country x	fleet y	total catch in tonnes				
		number of samples				
		number of fish measured				
		number of fish aged				
Zone C, north of Cap Blanc	Moroccan	NO SAMPLING				
	Russian Federation					
	Ukraine & others					
Mauritania	EU (Holland)	295	63	257	275	891
		2	3	16	7	28
		164	178	1505	673	2520
	NO SAMPLING					
	Russian Federation, Ukraine & others	0	0	31645	6134	37779
				254	6	260
artisanal						NO SAMPLING
Senegal	industrial					
	artisanal					4657
Gambia	industrial					89
	artisanal					111

Table 4.5.1a: Age length key (%) for *Trachurus trachurus* of Russian fleet in Jan.–Mar. 2004 in the Mauritanian EEZ/Clé taille-âge (%) pour les captures de *Trachurus trachurus* effectuées par la flottille russe dans la ZEE mauritanienne en janv.-mar. 2004

Length/age	1	2	3	4	5	6	7	8	9	Total	PROC	Weight
13.5	100									1	0	30
14.5	100									7	3	31
15.5	40	60								5	2	37
16.5		100								3	1	37
17.5	17	83								12	5	45
18.5	20	80								15	6	52
19.5		53	47							17	7	57
20.5		67	33							18	7	69
21.5		61	33	6						18	7	73
22.5		50	50							12	5	82
23.5		17	67	17						6	2	106
24.5		17	50	33						6	2	132
25.5			50	50						4	2	135
26.5			27	73						11	4	155
27.5				67	33					9	4	173
28.5				56	44					9	4	205
29.5				67	33					3	1	227
30.5				50	50					4	2	245
31.5				50	50					4	2	255
32.5				17	33	33	17			6	2	295
33.5					75	13	13			8	3	341
34.5					75	25				8	3	385
35.5					55	18	27			11	4	397
36.5					14	71	14			14	6	426
37.5						56	22	22		9	4	452
38.5						21	14	57	7	14	6	501
39.5						25	25	25	25	4	2	470
40.5							43	29	29	7	3	553
41.5							50	50		4	2	570
Total	15	68	38	32	34	26	17	15	4	249		
mean length	16	20	22	28	33	36	38	39	40			249
mean weight	39	61	89	179	317	430	456	500	526			
%	6	27	15	13	14	10	7	6	2			

Table 4.5.1b: Age length key (%) for *Trachurus trachurus* of Russian fleet in April–June 2004 in the Mauritanian EEZ/Clé taille-âge (%) pour les captures de *Trachurus trachurus* effectuées par la flottille russe dans la ZEE mauritanienne en avril-juin 2004

Length/age	1	2	3	4	5	6	7	8	Total	PROC	Weight
16.5	40	60							5	1	40
17.5	20	80							10	2	44
18.5	6	94							16	3	51
19.5		100							20	3	58
20.5		97	3						36	6	73
21.5		91	9						44	7	94
22.5		76	24						45	7	93
23.5		60	40						40	6	103
24.5		36	50	12	2				42	7	117
25.5		10	50	40					40	6	132
26.5			53	43	5				40	6	151
27.5			22	73	5				41	6	173
28.5			5	64	31				42	7	191
29.5			6	42	52				31	5	213
30.5			3	48	42	6			33	5	237
31.5				22	59	19			32	5	262
32.5				24	67	10			21	3	300
33.5				18	53	29			17	3	336
34.5				11	32	47	11		19	3	355
35.5					35	40	20	5	20	3	410
36.5					13	56	31		16	3	448
37.5					11	39	33	17	18	3	476
38.5						50	40	10	10	2	514
39.5						100			2	0	620
Total	5	198	108	141	107	55	21	5	640		
mean length	17	21	25	28	31	35	37	37			640
mean weight	44	83	131	193	271	399	461	466			
%	1	31	17	22	17	9	3	1			

Table 4.5.1c: Age length key (%) for *Trachurus trachurus* of Russian fleet in July–Sept. 2004 in the Mauritanian EEZ/Clé taille-âge (%) pour les captures de *Trachurus trachurus* effectuées par la flottille russe dans la ZEE mauritanienne en juillet-sept. 2004

Length/age	0	1	2	3	4	5	6	7	8	9	Total	PROC	Weight
14.5	100										1	0	20
15.5	44	56									9	1	27
16.5	44	56									9	1	32
17.5		100									10	2	42
18.5		82	18								11	2	47
19.5		35	65								20	3	57
20.5		8	92								26	4	71
21.5			100								30	5	83
22.5			79	21							39	6	96
23.5			51	49							45	7	110
24.5			43	57							42	6	128
25.5			19	71	10						42	6	144
26.5			2	52	46						46	7	168
27.5				46	52	2					48	7	181
28.5			2	22	63	13					46	7	210
29.5				10	64	26					42	6	230
30.5				3	44	50	3				34	5	257
31.5					27	69	4				26	4	294
32.5					9	59	32				22	3	319
33.5					5	65	30				20	3	360
34.5						40	55	5			20	3	387
35.5						62	24	5	10		21	3	400
36.5						22	33	22	22		18	3	449
37.5						7	27	40	20	7	15	2	483
38.5							33	56	11		9	1	519
39.5							50	50			2	0	590
Total (numbers)	9	38	151	145	131	105	45	18	10	1	653		
mean length	16	18	22	26	29	32	35	37	37	38			653
mean weight	28	43	96	150	214	314	400	482	453	480			
%	1	6	23	22	20	16	7	3	2	0			

Table 4.5.1d: Age length key (%) for *Trachurus trachurus* of Russian fleet in Oct.–Dec. 2004 in the Mauritanian EEZ/Clé taille-âge (%) pour les captures de *Trachurus trachurus* effectuées par la flottille russe dans la ZEE mauritanienne en oct.-déc. 2004

Length/age	0	1	2	3	4	5	6	7	8	9	Total	PROC	Weight
18.5	50	50									10	2	50
19.5	30	70									20	4	57
20.5	10	90									20	4	68
21.5		90	10								20	4	80
22.5		81	19								21	5	91
23.5		50	50								20	4	105
24.5		60	40								25	6	117
25.5		24	76								25	6	129
26.5		17	60	23							30	7	147
27.5		6	32	55	6						31	7	174
28.5			17	57	27						30	7	190
29.5			10	43	47						30	7	205
30.5			3	48	48						31	7	231
31.5				52	43		5				21	5	253
32.5				32	32	18	18				22	5	285
33.5				24	35	35	6				17	4	311
34.5				6	41	29	24				17	4	345
35.5				6	39	33	17	6			18	4	387
36.5					36	45	18				11	2	419
37.5						36	45	9	9	9	11	2	468
38.5					10	50	30	10			10	2	496
39.5						57	29	14			7	2	479
40.5							50		50	50	2	0	575
Total (numbers)	13	110	82	93	80	39	26	4	2	2	449		
mean length	19	22	26	30	32	36	36	38	39	39			449
mean weight	54	90	140	216	273	399	395	423	540	540			
%	3	25	18	21	18	9	6	1	0	0			

Table 4.5.1e : Age length key (numbers) for *Trachurus trecae* of Russian fleet in Jan.–Mar. 2004 in the Mauritanian EEZ/Clé taille-âge (nombres) pour les captures de *Trachurus trecae* effectuées par la flottille russe dans la ZEE mauritanienne en janv.-mar. 2004

Length/age	1	2	3	4	5	6	7	8	9	10	11	12	Total
14	45												45
15	876												876
16	2913	97											3010
17	6225	1297											7522
18	18054	14042											32096
19	8194	42326											50521
20	2526	93629	2526										98681
21		66768	6846										73614
22		48901	9783										58684
23		44921	19007	1727									65655
24		5933	46283	1186									53401
25		4231	43731	7053									55014
26			43135	55112	2395								100642
27			28729	114901	7178								150808
28			7814	152540	15646								176001
29				98002	37472								135475
30				44440	36214								80654
31				9477	39255	8118							56851
32				1742	21491	3484							26717
33				204	7324	3663							11190
34					3691	4614	184						8490
35					315	5983	473						6770
36					84	3115	421	84					3704
37						1742	961	60					2764
38						486	3158	850					4495
39							2834	4896	1030				8760
40							286	3144	1286	143			4859
41							261	2084	4691	521	0		7557
42							298	1190	5952	1488	298		9226
43								154	770	1541	154		2620
44									85	213	128	85	511
45									33	100	233	66	432
46									0	29	72	43	144
Total (numbers)	38833	322145	207854	486383	171067	31205	8876	12463	13848	4035	884	195	1297788

Table 4.5.1f : Age length key (numbers) for *Trachurus trecae* of Russian fleet in April–June 2004 in the Mauritanian EEZ/Clé taille-âge (nombres) pour les captures de *Trachurus trecae* effectuées par la flottille russe dans la ZEE mauritanienne en avril-juin 2004

Length/age	1	2	3	4	5	6	Total
20	2787	5576					8363
21	503	6042					6545
22	415	5393					5808
23	0	4737	1292				6029
24		2799	6158				8957
25		0	18924	1576			20500
26			24472	20390			44862
27			24430	24430			48860
28			8300	20753			29053
29			1434	8602			10037
30			0	2427	1213		3641
31				350	701		1051
32				0	418		418
33					163		163
34					46		46
35					0	190	190
36						92	92
Total	3705	24547	85010	78529	2541	282	194614

Table 4.5.1g: Age length key (numbers) for *Trachurus trecae* of Russian fleet in July–Sept. 2004 in the Mauritanian EEZ/Clé taille-âge (nombres) pour les captures de *Trachurus trecae* effectuées par la flottille russe dans la ZEE mauritanienne en juillet-sept. 2004

Length/age	1	2	3	4	5	6	7	8	9	10	11	Total
16	1749											1749
17	20088											20088
18	55424	6927										62351
19	54154	43315										97469
20	32286	129144										161430
21	22046	176389										198436
22	0	140351	32389									172740
23		98443	24611									123053
24		64827	24307									89134
25		51489	51489	10309								113286
26		11528	126852	23071								161450
27		0	82055	70322								152377
28			30829	61657	10276							102762
29			9075	63533	9075							81683
30			0	32660	32660							65319
31				11224	25257	2805						39285
32				2286	29699	2282						34266
33				1281	11524	6401						19206
34				0	7119	6230						13348
35					1269	5497	423					7188
36					271	2442	271					2985
37					0	467	583					1050
38						69	893	69				1030
39						40	0	121				161
40						0	17	60	17			94
41							0	42	63			105
42							0	9	70	9		88
43								23	23	11	11	68
Total (numbers)	185747	722413	381605	276343	127148	26233	2187	323	173	20	11	1722203

Table 4.5.1h : Age length key (numbers) for *Trachurus trecae* of Russian fleet in Oct.–Dec. 2004 in the Mauritanian EEZ/Clé taille-âge (nombres) pour les captures de *Trachurus trecae* effectuées par la flottille russe dans la ZEE mauritanienne en oct.-déc. 2004

Length/age	1	2	3	4	5	6	7	8	9	10	11	Total
16												
17	818											818
18	10744	1343										12086
19	19033	15224										34257
20	23308	93231										116539
21	31555	252467										284021
22	0	356468	82262									438729
23		357812	89453									447266
24		164963	61853									226816
25		57966	57966	11606								127539
26		6209	68326	12427								86962
27		0	64948	55661								120610
28			25430	50860	8477							84767
29			6191	43341	6191							55723
30			0	22805	22805							45610
31				8131	18297	2032						28460
32				1950	25341	1947						29238
33				1705	15336	8519						25559
34				0	9304	8142						17445
35					2209	9572	736					12517
36					789	7101	789					8678
37					0	1732	2165					3897
38						109	1416	109				1633
39						261	0	783				1044
40						0	223	781	223			1227
41							0	171	257			429
42								8	67	8		84
43								30	30	15	15	91
Total (numbers)	85458	1305683	456429	208487	108748	39414	5329	1883	578	24	15	2212049

Table 4.6.1: Catch-at-age (thousands of individuals) of *Trachurus trachurus* (1990–2004) in the subregion/Capture par âge de *Trachurus trachurus* (milliers d'individus) (1990-2004) dans la sous-région

Age*/ Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1	4	6484	53108	66916	1536	12098	15126	10646	326	1376	0	0	12	2600	8464
2	4586	13185	28247	35600	107303	14031	30261	24820	94706	15260	1661	2761	1234	15928	494776
3	22892	9050	15942	20089	111357	40680	32404	18779	134126	19154	4760	13933	14836	34786	308491
4	48754	6983	5970	7534	8222	64130	33910	17397	79966	25152	15375	67957	26026	38726	161607
5	17855	7626	5444	6796	584	51569	33737	38216	38008	29947	28735	59492	18538	29972	82263
6	6014	3872	6198	7829	238	8145	15470	29132	28945	40700	31238	46787	20378	25957	33521
7	3721	807	1967	2511	482	1459	3514	13619	26358	37394	31015	31598	15360	11925	8728
8	38	9	252	295	369	1215	1159	1243	25607	61210	19660	7541	4267	6914	5138
Catch (N)	105854	50008	119118	149562	232085	195322	167577	155849	430041	232193	134444	230069	100651	166808	1102990
Catch (t)	33000	11949	20316	25590	33949	50421	38722	42943	78381	72256	55314	69949	31916	54604	169350

* age readings by the Russian Federation only

Table 4.6.2: Catch-at-age (thousands of individuals) of *Trachurus trecae* (1990-2004) in the subregion/Capture par âge (milliers d'individus) de *Trachurus trecae* (1990-2004) dans la sous-région

Age*/ Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1	38	12677	54654	44199	56387	3025	13503	2492	3616	1075	11672	4962	87	9846	64240
2	1313	54198	248592	188981	127537	10938	5974	29124	4175	12010	38323	161508	9895	11870	495572
3	41906	93601	85537	96421	64950	94808	8138	31855	24753	20126	74209	199627	136052	32852	246183
4	60131	99139	45507	40423	27161	111123	14507	19509	24555	19473	71320	159871	130940	57701	233177
5	41011	45512	44714	38346	25979	56587	32892	51305	3812	26416	102520	103886	79390	50233	94663
6	14893	15279	21722	18504	12400	24002	113357	41444	1783	64113	107894	72646	55764	34346	25199
7	1492	3692	7599	6611	4429	11916	65982	27841	1528	42040	55660	56142	34046	28750	5578
8	254	694	4210	4427	2952	7575	11228	11527	1769	26494	59365	48022	39578	47201	12744
Catch (N)	161037	324793	512535	437912	321795	319976	265581	215097	65992	211747	520963	806665	485752	272799	1177355
Catch (t)	59040	99396	120130	105902	73291	121697	90619	72737	122720	84145	171906	210043	168339	100624	178951

* age readings by the Russian Federation only

Table 5.2.1: Catches (tonnes) of *Scomber japonicus* (1990–2004) by country, fleet and year/Captures (en tonnes) de *Scomber japonicus* (1990–2004) par zones, flottille et année

Country/Zone	Fleet	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Morocco																
Zone North	Moroccan	2474	829	1051	1181	1710	1678	887	2224	862	3353	5612	1911	5779	6039	7174
Morocco Zone A	Moroccan	21519	6145	8863	9948	34886	24762	10600	13712	5272	11034	23267	9347	7426	9487	44402
Morocco Zone B	Moroccan	2519	3618	3330	4510	384	910	4021	11761	4849	1401	4281	14361	9495	18940	4423
Northern fishery	Northern fishery	26513	10592	13244	15639	36979	27351	15507	27697	10983	15788	33160	25619	22700	34465	55999
Zone C, Cap Boujdor to C. Blanc	Moroccan								55	1				2	72	1826
	Russian Federation				4988	20970	27030	10975	50200	32290	30531	0	0	0	0	57636
	Ukraine & others				1824	11927	45661	55386	82015	115555	66601	90530	65186	0	0	6539
					6812	32897	72691	66361	132270	147846	97132	90530	65186	2	72	66002
Mauritania	UE														32168	8356
	NON UE														101050	88210
	artisanal														0	0
		20000	8235	20303	16578	19094	44730	98017	48464	41192	21470	65074	65662	104615	133218	96566
Senegal	industrial	17	88	431	1240	2189	1	3532	3534	3062	6461	51	13	27	0	1
	artisanal	2482	843	1859	1376	1224	2296	1392	1596	1654	2439	2321	1880	8869	14186	5939
		2499	931	2290	2616	3413	2297	4924	5130	4716	8900	2372	1893	8896	14186	5940
The Gambia	industrial	235	281	7	46	34	0	46	116	20	125	98	107	125	187	148
	artisanal	49	13	23	20	27	106	80	42	22	59	42	62	219	121	128
		284	294	30	66	61	106	126	158	42	184	140	169	344	308	276
	Southern fishery	22783	9460	22623	26072	55465	119824	169428	186022	193796	127686	158116	132910	113857	147785	168783
	TOTAL N+S	49296	20052	35867	41711	92444	147175	184935	213719	204779	143474	191276	158529	136557	182250	224782

Note : In Zone C North of Cape Blanc the boats are vessels operated under rental agreements or joint ventures (Russian Federation, Ukraine & others).

Table 5.2.2: Effort of *Scomber japonicus* (1990–2004) by country (zone), fleet and year/Effort de *Scomber japonicus* (1990–2004) par pays (zone), flottille et année

Country	Fleet	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Morocco Zone North	Moroccan purse-seiners ¹⁾	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Morocco Zone A	Moroccan purse-seiners ¹⁾	29089	25104	22138	23438	20519	15575	14217	18738	15627	13605	23142	7391	16784	12860	14920
Morocco Zone B	Moroccan purse-seiners ¹⁾	7023	10085	9163	10404	16375	20693	19538	26978	17809	23810	27023	20440	35416	34244	33110
Morocco Zone C	Moroccan purse-seiners ¹⁾														805	1762
Zone C North of C. Blanc	Russian Federation ²⁾				1383	1624	1839	713	1331	1602	1721					1466
	Ukraine & others ²⁾				93	1194	2323	2239	3080	5797	4803	3982	2218			479
Mauritania	EU (Holland and others ²⁾														1174	1091
	NON EU (Russia and others ²⁾														8158	11571
Senegal	Industrial ²⁾	239	636	1347	770	344	431	482	598	480	1367	121	185	153	172	178

1) number of trips

2) fishing days

Table 5.3.1: CPUE of *Scomber japonicus* , catch (tonnes) and effort (days fishing) standardized to units of RTMS (Russian Federation and Ukraine)/CPUE de *Scomber japonicus*, captures (en tonnes) et effort (jours des pêches) standardisée au unités de RTMS (Fédération de Russie et Ukraine)

Year	CPUE (tonnes/RTMS day)	Catch (tonnes)			Standardized effort		
		South	North	Total	South	North	Total
1992	53	22623	13244	35867	425	249	674
1993	58	26072	15639	41711	447	268	715
1994	51	55465	36979	92444	1098	732	1831
1995	53	119824	27351	147175	2278	520	2798
1996	52	169428	15507	184935	3246	297	3543
1997	49	186022	27697	213719	3812	568	4380
1998	47	193796	10983	204779	4115	233	4348
1999	42	127686	15788	143474	3033	375	3408
2000	50	158116	33160	191276	3188	669	3856
2001	57	132910	25619	158529	2352	453	2806
2002	41	113857	22700	136557	2797	558	3355
2003	47	147785	34465	182250	3151	735	3229
2004	50	168783	55999	224782	3357	1114	2227

Table 5.4.1 : Sampling intensity of *Scomber japonicus* (2004) by country (zone) and fleet/Intensité d'échantillonnage de *Scomber japonicus* (2004) par pays (zone) et flottille

Country	Fleet	Q1	Q2	Q3	Q4	2004
country x	fleet y	total catch in tonnes				
		number of samples				
		number of fish measured				
		number of fish aged				
Morocco Zone N	Moroccan	826	1482	995	3871	7174
Morocco Zone A	Moroccan	54	8832	23009	12507	44402
		22	38	30	32	122
		335	2101	1634	1747	5817
		0	0	0	0	0
Morocco Zone B	Moroccan	160	903	2828	532	4423
		1	2	4	1	8
		34	145	226	97	502
Zone C, North of C. Blanc	Moroccan	12	21	1275	518	1826
		no	no	no	no	no
		no	no	no	no	no
		no	no	no	no	no
	Russian federation	4155	32008	16462	5012	57636
		82	168	18	55	284
		9232	42704	5895	17585	75416
		25	688	412	597	1722
	Ukraine & others			213	6326	6539
		no	no	no	no	no
		no	no	no	no	no
		no	no	no	no	no
Mauritania	EU	3189	1595	789	2783	8356
		43	37	19	16	115
		4928	3156	1726	1086	10896
		0	0	0	0	0
	Russian Federation, Ukraine & others	23925	33788	20228	10269	88210
		149	23	0	0	172
		46859	7363	0	0	54222
		990	321	89		1400
Senegal	industrial					1
		no	no	no	no	no
		no	no	no	no	no
		no	no	no	no	no
	artisanal					5939
		no	no	no	no	no
		no	no	no	no	no
The Gambia	industrial					148
	artisanal					128

Table 5.5.1: Catch-at-age (thousands of individuals) of *Scomber japonicus* (1992–2004)/Capture par âge (milliers d'individus) de *Scomber japonicus* (1992-2004)

Northern fishery													
Years/age	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0	2299	261	1463	110	88	62610	37	12152	71	2958	41	134681	172
1	13155	1565	26747	56553	1405	37999	22715	95033	16343	85881	60942	88557	410427
2	4678	8192	28090	73567	7633	39083	31093	76085	65169	53292	16224	30266	70887
3	5993	12080	29046	41896	3856	15719	12845	11674	50813	79813	19821	35946	28838
4	5626	7216	35927	31173	1071	14755	6845	5296	19189	27433	9898	7981	11235
5	6083	7471	26798	18977	265	15817	1677	1461	2395	3771	2106	6012	1880
6+	11781	33296	31066	23364	40	47213	551	550	517	1408	487	2483	190

Southern fishery													
Years/age	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0													14
1	6848	6991	37894	31281	23793	18141	18294	66848	63	12	40088	236819	71645
2	15350	19715	156637	89062	206817	90534	110903	26801	32182	4585	208932	236694	353532
3	23603	27810	93371	102281	174909	74331	140058	48167	122997	156792	105348	79855	147911
4	11207	13097	13945	114099	100991	136392	152047	72959	82528	76701	60150	36565	55114
5	3453	3940	1212	55418	87261	109684	101184	68534	16887	23459	27711	14948	33451
6+	2181	2055	31	16707	37918	74078	49161	55979	63983	43618	30572	5765	37683

Catch at age total (Northern+Southern) fishery													
Years/age	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
0	2299	261	1463	110	88	62610	37	12152	71	2958	41	134681	186
1	15642	5046	51103	70302	27127	48848	40772	151769	15873	70749	100404	468151	482072
2	15661	16457	146038	130168	230865	112781	141176	96459	94187	47673	223760	384103	424419
3	23143	23524	96779	115399	192448	78353	152020	56104	168162	194889	124392	166615	176749
4	13163	11979	39427	116275	109874	131514	157974	73367	98411	85774	69614	64093	66349
5	7457	6730	22144	59545	94225	109199	102267	65623	18655	22429	29632	30158	35331
6+	10918	20848	24584	32073	40863	105537	49425	52998	62404	37087	30866	9078	37873

Table 6.2.1: Catches (tonnes) of *Engraulis encrasicolus* (1990–2004) by country, fleet and year/Captures (en tonnes) d'*Engraulis encrasicolus* (1990-2004) par pays, flottilles et année

Country	Fleet	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Morocco Zone North	Moroccan										
Morocco Zone A	Moroccan										
Morocco Zone B	Moroccan										
Zone C, north of C. Blanc	Moroccan										
Total Morocco	Moroccan	10324	19125	16635	10310	7516	10257	12039	24697	40403	30373
	Russian federation										
	Ukraine & others										
Mauritania	EU industrial		8279	17358	6489	2612	986	3609	34511	79162	93164
	other industrial										
	artisanal										
	all										
Senegal	industrial										
	artisanal										
The Gambia	industrial										
	artisanal										
	all fleets	10324	27404	33993	16799	10128	11243	15648	59208	119565	123537

Country	Fleet	2000	2001	2002	2003	2004*
Morocco Zone North	Moroccan					1561
Morocco Zone A	Moroccan					5380
Morocco Zone B	Moroccan					126
Zone C, north of C. Blanc	Moroccan					0
Total Morocco	Moroccan	22096	47417	18473	17000	7068
	Russian Federation					
	Ukraine & others					
Mauritania	EU industrial	104090	105350	136232	162854	142106
	all fleets	126186	152767	154705	176990	159106

Table 7.2.1: Catches (tonnes) of *Ethmalosa fimbriata* (1990–2004) by country, fleet and year/Captures (tonnes) d'*Ethmalosa fimbriata* (1990-2004) par pays, flottille et année

Country	Fleet	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Mauritania	EU industrial										
	other industrial										
	artisanal										
	all										
Senegal	industrial										
	artisanal	14785	11542	12164	17332	13504	15686	17462	16462	16494	29454
The Gambia	industrial										
	artisanal	8039	17646	12019	14053	16897	13897	22648	21523	21952	16115
	all fleets	22824	29188	24183	31385	30401	29583	40110	37985	38446	45569

Country	Fleet	2000	2001	2002	2003	2004
Mauritania	EU industrial					
	other industrial					
	artisanal	4026	6378	12899	8298	1680
	all					
Senegal	industrial					
	artisanal	15312	24172	11843	13095	16918
The Gambia	industrial					
	artisanal	20508	18516	18701	22118	16052
	all fleets	39846	49066	43443	43511	34650