

INTERNATIONAL COMMISSION FOR THE  
CONSERVATION OF ATLANTIC TUNAS

COMMISSION INTERNATIONALE POUR LA CON-  
SERVATION DES THONIDES DE L'ATLANTIQUE

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SCRS/1994/011

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**UPDATING OF THE CATCH-AT-SIZE DATA BASE FOR  
ATLANTIC YELLOWFIN TUNA, DATA SUBSTITUTION, AND RAISING TO  
THE TOTAL CATCH, PRESENTED TO THE SCRS**

by

**P. M. Miyake & P. Kebe**

Table . Updating of catch-at-size base carried out for 1994 SCRS session.

CATCH DATA					MATCHED SIZE DATA					NO.	REMARKS	
A	COUNTRY	C	GEAR	G Y CAT	R.F.	A	COUNTRY	C	GEAR			G Y T
R		O		E E I Y				O		E E I		
E		U		A A M P				N		A A M		
A		N		R R E E				T		R R E		
1	S.AFRICA	20	BB	17 92 63	3.72365	2	GHANA	27	BB	17 92 17		RF=Taskl/est.wgt
4	ESPANA	21	LLHB	4 92 20	5.83431	5	JAPAN	12	LL	1 92 17		RF=Taskl/est.wgt
3	ESPANA	21	PSG	5 92 2431	1.00000	3	ESPANA	21	PSG	5 92 17	0	0 C/Size as provided by nat.
22	ESPANA	21	PSG	5 92 249	1.00000	22	ESPANA	21	PSG	5 92 17	0	0 C/Size as provided by nat.
5	ESPANA	21	PSG	5 92 28776	1.00000	5	ESPANA	21	PSG	5 92 17	0	0 C/Size as provided by nat.
2	ESPANA	21	PSG	5 92 17440	1.00000	2	ESPANA	21	PSG	5 92 17	0	0 C/Size as provided by nat.
1	ESPANA	21	PSG	5 92 1068	1.00000	1	ESPANA	21	PSG	5 92 17	0	0 C/Size as provided by nat.
3	ESPANA	21	BB	17 92 265	1.62357	3	ESPANA	21	BB	17 92 17	3703	380 C/Size as provided by nat.
5	ESPANA	21	BB	17 92 1493	1.22732	4	ESPANA-C	45	BB	17 92 17	35623	1245 C/Size as provided by nat.
24	USA	25	LL	1 92 879	0.90605	24	USA	25	LL	1 91 17		RF=Taskl/est.wgt
25	USA	25	LL	1 92 151	3.59725	25	USA	25	LL	1 91 17		RF=Taskl/est.wgt
26	USA	25	LL	1 92 4577	1.42500	26	USA	25	LL	1 91 17		RF=Taskl/est.wgt
24	USA	25	PS	6 92 376	123.57040	24	USA	25	PS	6 91 17		RF=Taskl/est.wgt
24	USA	25	TROL	9 92 103	0.56005	24	USA	25	TROL	9 91 17		RF=Taskl/est.wgt
24	USA	25	UNCL	13 92 14	85.15815	24	USA	25	UNCL	13 91 17		RF=Taskl/est.wgt
26	USA	25	UNCL	13 92 10	2.84455	26	USA	25	HAND	19 91 17		RF=Taskl/est.wgt
24	USA	25	TRAW	14 92 2	0.07669	24	USA	25	TRAW	14 91 17		RF=Taskl/est.wgt
24	USA	25	HAND	19 92 67	0.77470	24	USA	25	HAND	19 91 17		RF=Taskl/est.wgt
24	USA	25	RR	22 92 305	0.90977	24	USA	25	RR	22 91 17		RF=Taskl/est.wgt
24	USA	25	MWT	23 92 13	0.49849	24	USA	25	TRAW	14 91 17		RF=Taskl/est.wgt
24	USA	25	GILL	24 92 3	2.61097	24	USA	25	GILL	24 91 17		RF=Taskl/est.wgt
2	GHANA	27	SURF	11 92 108	6.38339	2	GHANA	27	BB	17 92 17		RF=Taskl/est.wgt
2	GHANA	27	BB	17 92 7192	425.08674	2	GHANA	27	BB	17 92 17	16259	8344 RF=Taskl/est.wgt
25	VENEZUEL	29	LL	1 92 450	10.72028	25	USA	25	LL	1 91 17		RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 3	6.67798	25	VENEZUE	29	PS	6 92 17	0	0 RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 330	6.67798	25	VENEZUE	29	PS	6 92 17	0	0 RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 1	6.67798	25	VENEZUE	29	PS	6 92 17	0	0 RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 1	6.67798	25	VENEZUE	29	PS	6 92 17	0	0 RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 644	6.67798	25	VENEZUE	29	PS	6 92 17	0	0 RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 1	6.67798	25	VENEZUE	29	PS	6 92 17	0	0 RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 314	6.67798	25	VENEZUE	29	PS	6 92 17	0	50 RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 1	6.67798	25	VENEZUE	29	PS	6 92 17	0	0 RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 531	6.67798	25	VENEZUE	29	PS	6 92 17	0	0 RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 0	6.67798	25	VENEZUE	29	PS	6 92 17	0	0 RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 1	6.67798	25	VENEZUE	29	PS	6 92 17	0	0 RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 132	6.67798	25	VENEZUE	29	PS	6 92 17	0	0 RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 34	6.67798	25	VENEZUE	29	PS	6 92 17	0	0 RF=Taskl/est.wgt
25	VENEZUEL	29	PS	6 92 41	6.67798	25	VENEZUE	29	PS	6 92 17	0	0 RF=Taskl/est.wgt
25	VENEZUEL	29	BB	17 92 3843	13.36946	25	VENEZUE	29	BB	17 92 17	0	0 RF=Taskl/est.wgt
25	GRENADA	30	UNCL	13 92 340	1.18283	25	VENEZUE	29	BB	17 92 17		RF=Taskl/est.wgt
25	MEXICO	31	UNCL	13 92 742	2.58135	25	VENEZUE	29	BB	17 92 17		RF=Taskl/est.wgt
5	FIS	32	PSG	5 92 11628	1.00000	5	FIS	32	PSG	5 92 17	0	0 C/Size as provided by nat.
3	FIS	32	PSG	5 92 7	1.00000	3	FIS	32	PSG	5 92 17	0	0 C/Size as provided by nat.
22	FIS	32	PSG	5 92 182	1.00000	22	FIS	32	PSG	5 92 17	0	0 C/Size as provided by nat.
2	FIS	32	PSG	5 92 13217	1.00000	2	FIS	32	PSG	5 92 17	0	0 C/Size as provided by nat.
1	FIS	32	PSG	5 92 7141	1.00000	1	FIS	32	PSG	5 92 17	0	0 C/Size as provided by nat.
5	FIS	32	BB	17 92 27	1.00000	5	FIS	32	BB	17 92 17	0	0 C/Size as provided by nat.
3	FIS	32	BB	17 92 2803	1.00000	3	FIS	32	BB	17 92 17	0	0 C/Size as provided by nat.
2	FIS	32	BB	17 92 316	1.00000	2	FIS	32	BB	17 92 17	0	0 C/Size as provided by nat.
1	ANGOLA	34	BB	15 92 441	26.06552	2	GHANA	27	BB	17 92 17		RF=Taskl/est.wgt
25	TRINIDAD	41	SPOR	12 92 4	0.01392	25	VENEZUE	29	BB	17 92 17		RF=Taskl/est.wgt
23	URUGUAY	42	LLHB	4 92 49	21.25629	22	JAPAN	12	LL	1 92 17		RF=Taskl/est.wgt
3	SENEGAL	53	TROL	9 92 3	0.00107	3	FIS	32	BB	17 92 17	0	0 C/Size as provided by nat.
3	SENEGAL	53	HAND	19 92 49	0.01748	3	FIS	32	BB	17 92 17	0	0 C/Size as provided by nat.
23	BRASJPN	57	LLFB	3 92 142	61.59986	22	JAPAN	12	LL	1 92 17		RF=Taskl/est.wgt
23	BRASJPN	57	BBF	16 92 195	30.15355	23	BRASIL	3	BBF	16 92 17	827	182 RF=Taskl/est.wgt
5	S.HELENA	61	RR	22 92 166	0.57750	25	VENEZUE	29	BB	17 92 17		RF=Taskl/est.wgt
25	BARBADOS	63	UNCL	13 92 179	0.62273	25	VENEZUE	29	BB	17 92 17		RF=Taskl/est.wgt
5	CAP VERT	65	BB	17 92 224	2.88617	5	C.VERT	65	HAND	19 92 17		RF=Taskl/est.wgt
5	CAP VERT	65	HAND	19 92 2063	26.58108	5	C.VERT	65	HAND	19 92 17		RF=Taskl/est.wgt
2	BENIN	67	HS	29 92 1	0.00008	2	FIS	32	PSG	5 92 17		RF=Taskl/est.wgt
2	CONGO	69	PS	6 92 18	0.00136	2	FIS	32	PSG	5 92 17		RF=Taskl/est.wgt
5	NEI_1	73	PS	6 92 15477	0.48102	5	FIS	32	PSG	5 92 17		RF=Taskl/est.wgt
3	NEI_1	73	PS	6 92 *	0.48102	3	FIS	32	PSG	5 92 17		RF=Taskl/est.wgt
22	NEI_1	73	PS	6 92 *	0.48102	22	FIS	32	PSG	5 92 17		RF=Taskl/est.wgt
2	NEI_1	73	PS	6 92 *	0.48102	2	FIS	32	PSG	5 92 17		RF=Taskl/est.wgt
1	NEI_1	73	PS	6 92 *	0.48102	1	FIS	32	PSG	5 92 17		RF=Taskl/est.wgt
25	NLD.ANT.	76	UNCL	13 92 160	0.55663	25	VENEZUE	29	BB	17 92 17		RF=Taskl/est.wgt

Table . Updating of catch-at-size base carried out for 1994 SCRS session.

CATCH DATA					MATCHED SIZE DATA								
A	COUNTRY	C	GEAR	G Y CAT	R.F.	A	COUNTRY	C	GEAR	G Y T	WG	NO.	REMARKS
R		O		E E I Y				O		E E I			
E		U		A A M P				N		A A M			
A		N		R R E E				T		R R E			
25	ST.LUCIA	77	UNCL	13 92 58	0.20178	25	VENEZUE	29	BB	17 92 17			
3	SAO TOME	79	SURF	11 92 229	2.95059	5	C.VERT	65	HAND	19 92 17			RF=TaskI/est.wgt
24	BERMUDA	83	RR	22 92 42	3.76651	24	JAPAN	12	LL	1 92 17			RF=TaskI/est.wgt
25	VEN-FOR	85	LL	1 92 0.01	0.00434	22	JAPAN	12	LL	1 92 17	0	0	RF=TaskI/est.wgt
23	BRAS.TAI	100	LLFB	3 92 625	996.96921	23	BRAS.TW	100	LL	1 92 17	0	47	RF=TaskI/est.wgt
1	RUSSIA	104	PS	6 92 1862	41.37364	1	RUSSIA	104	PS	6 92 17	0	388	RF=TaskI/est.wgt
2	RUSSIA	104	PS	6 92 *	41.37364	2	RUSSIA	104	PS	6 92 17	0	1279	RF=TaskI/est.wgt
25	ST.VINCE	111	UNCL	13 92 17	0.05914	25	VENEZUE	29	BB	17 92 17			RF=TaskI/est.wgt
23	BRASIL	3	LLMB	2 93 245	106.28145	22	JAPAN	12	LL	1 92 17			RF=TaskI/est.wgt
23	BRASIL	3	LLHB	4 93 119	51.62242	22	JAPAN	12	LL	1 92 17			RF=TaskI/est.wgt
23	BRASIL	3	SURF	11 93 45	4.51535	23	BRASIL	3	BB	17 93 17			RF=TaskI/est.wgt
23	BRASIL	3	BBI	15 93 2572	258.07746	23	BRASIL	3	BB	17 93 17			RF=TaskI/est.wgt
23	BRASIL	3	BBF	16 93 585	58.69958	23	BRASIL	3	BB	17 93 17	7012	1269	RF=TaskI/est.wgt
24	CANADA	4	LL	1 93 71	6.36720	24	JAPAN	12	LL	1 92 17			RF=TaskI/est.wgt
5	JAPAN	12	LL	1 93 2747	32.15807	5	JAPAN	12	LL	1 92 17			RF=TaskI/est.wgt
2	JAPAN	12	LL	1 93 *	32.15807	2	JAPAN	12	LL	1 92 17			RF=TaskI/est.wgt
21	JAPAN	12	LL	1 93 604	14.09124	21	JAPAN	12	LL	1 92 17			RF=TaskI/est.wgt
24	JAPAN	12	LL	1 93 *	14.09124	24	JAPAN	12	LL	1 92 17			RF=TaskI/est.wgt
22	JAPAN	12	LL	1 93 *	14.09124	22	JAPAN	12	LL	1 92 17			RF=TaskI/est.wgt
4	PORTUGAL	19	SURF	11 93 3	10.05699	4	PORTUGA	19	BB	17 93 17			RF=TaskI/est.wgt
4	PORT-MDR	19	BB	17 93 40	134.09319	4	PORTUGA	19	BB	17 93 17	0	36	RF=TaskI/est.wgt
1	S.AFRICA	20	SPOR	12 93 4	0.23642	2	GHANA	27	BB	17 92 17			RF=TaskI/est.wgt
1	S.AFRICA	20	BB	17 93 257	15.19011	2	GHANA	27	BB	17 92 17			RF=TaskI/est.wgt
1	ESPANA	21	PSG	5 93 2133	1.00000	1	ESPANA	21	PSG	5 93 17	0	0	C/Size as provided by nat.
5	ESPANA	21	PSG	5 93 14192	1.00000	5	ESPANA	21	PSG	5 93 17	0	0	C/Size as provided by nat.
3	ESPANA	21	PSG	5 93 4837	1.00000	3	ESPANA	21	PSG	5 93 17	0	0	C/Size as provided by nat.
2	ESPANA	21	PSG	5 93 23390	1.00000	2	ESPANA	21	PSG	5 93 17	0	0	C/Size as provided by nat.
5	ESPANA	21	BB	17 93 1128	2.24346	4	ESPANA-C	45	BB	17 93 17	1457	63	RF=TaskI/est.wgt
3	ESPANA	21	BB	17 93 370	0.00000								C/size included in FIS BB
24	USA	25	LL	1 93 601	0.61950	24	USA	25	LL	1 91 17			RF=TaskI/est.wgt
25	USA	25	LL	1 93 101	2.40611	25	USA	25	LL	1 91 17			RF=TaskI/est.wgt
26	USA	25	LL	1 93 2650	0.82505	26	USA	25	LL	1 91 17			RF=TaskI/est.wgt
24	USA	25	PS	6 93 208	68.35809	24	USA	25	PS	6 91 17			RF=TaskI/est.wgt
24	USA	25	TROL	9 93 113	0.61443	24	USA	25	TROL	9 91 17			RF=TaskI/est.wgt
24	USA	25	UNCL	13 93 1	6.08273	24	USA	25	UNCL	13 91 17			RF=TaskI/est.wgt
24	USA	25	TRAW	14 93 1	0.03835	24	USA	25	TRAW	14 91 17			RF=TaskI/est.wgt
24	USA	25	HAND	19 93 13	0.15031	24	USA	25	HAND	19 91 17			RF=TaskI/est.wgt
26	USA	25	HAND	19 93 57	0.65907	24	USA	25	HAND	19 91 17			RF=TaskI/est.wgt
24	USA	25	RR	22 93 471	1.40492	24	USA	25	RR	22 91 17			RF=TaskI/est.wgt
26	USA	25	RR	22 93 1	0.00298	24	USA	25	RR	22 91 17			RF=TaskI/est.wgt
24	USA	25	MWT	23 93 42	1.61052	24	USA	25	RR	22 91 17			RF=TaskI/est.wgt
2	GHANA	27	BB	17 93 7294	431.11550	2	GHANA	27	BB	17 92 17			RF=TaskI/est.wgt
25	VENEZUEL	29	LL	1 93 450	8.92503	25	VENEZUE	29	LL	1 93 17	0	1006	RF=TaskI(92)/est.wgt
25	VENEZUEL	29	PS	6 93 13575	191.53250	25	VENEZUE	29	PS	6 93 17	0	5423	RF=TaskI(92)/est.wgt
25	VENEZUEL	29	BB	17 93 3843	500.80796	25	VENEZUE	29	BB	17 93 17	0	791	RF=TaskI(92)/est.wgt
25	MEXICO	31	LL	1 93 165	71.57730	22	JAPAN	12	LL	1 92 17			RF=TaskI/est.wgt
3	FIS	32	PSG	5 93 36208	1.00000	3	FIS	32	PSG	5 93 17	0	0	C/Size as provided by nat.
2	FIS	32	PSG	5 93 *	1.00000	2	FIS	32	PSG	5 93 17	0	0	C/Size as provided by nat.
1	FIS	32	PSG	5 93 *	1.00000	1	FIS	32	PSG	5 93 17	0	0	C/Size as provided by nat.
5	FIS	32	PSG	5 93 *	1.00000	5	FIS	32	PSG	5 93 17	0	0	C/Size as provided by nat.
5	FIS	32	BB	17 93 3287	1.00000	5	FIS	32	BB	17 93 17	0	0	RF=TaskI/est.wgt
3	FIS	32	BB	17 93 *	1.00000	3	FIS	32	BB	17 93 17	0	0	RF=TaskI/est.wgt
1	ANGOLA	34	UNCL	13 93 3	0.17732	2	GHANA	27	BB	17 92 17			RF=TaskI/est.wgt
1	ANGOLA	34	BB	17 93 48	2.83706	2	GHANA	27	BB	17 92 17			RF=TaskI/est.wgt
23	BRAS.JPN	57	LLFB	3 93 255	110.61947	22	JAPAN	12	LL	1 92 17			RF=TaskI/est.wgt
5	CAP VERT	65	BB	17 93 224	1.63641	5	C.VERT	65	HAND	19 93 17			RF=TaskI(92)/est.wgt
5	CAP VERT	65	HAND	19 93 2063	15.07101	5	C.VERT	65	HAND	19 93 17			RF=TaskI(92)/est.wgt
24	BERMUDA	83	RR	22 93 58	0.17301	24	USA	25	RR	22 91 17			RF=TaskI/est.wgt
23	BRAS.TAI	100	LLFB	3 93 1141	494.96790	22	JAPAN	12	LL	1 92 17			RF=TaskI/est.wgt
23	BRAS-HON	102	LLFB	3 93 10	4.33802	22	JAPAN	12	LL	1 92 17			RF=TaskI/est.wgt
1	RUSSIA	104	PS	6 93 2160	0.42619	1	FIS	32	PSG	5 93 17			RF=TaskI/est.wgt
5	NEI_1	73	PS	6 93 15477	0.43288	5	FIS	32	PSG	5 93 17	0	0	C/Size as provided by nat.
3	NEI_1	73	PS	6 93 *	0.43288	3	FIS	32	PSG	5 93 17	0	0	C/Size as provided by nat.
22	NEI_1	73	PS	6 93 *	0.43288	22	FIS	32	PSG	5 92 17			RF=TaskI(92)/est.wgt
2	NEI_1	73	PS	6 93 *	0.43288	2	FIS	32	PSG	5 93 17	0	0	C/Size as provided by nat.
1	NEI_1	73	PS	6 93 *	0.43288	1	FIS	32	PSG	5 93 17	0	0	C/Size as provided by nat.

Table . Updating of catch-at-size base carried out for 1994 SCRS session.

CATCH DATA					MATCHED SIZE DATA					NO. REMARKS
A COUNTRY	C GEAR	G Y	CAT	R.F.	A COUNTRY	C GEAR	G Y T	WG		
R	O	E E I	Y			O	E E I			
E	U	A A M	P			N	A A M			
A	N	R R E	E			T	R R E			
5 CHI-TAIW	5 LL	1 93	542	6.34498	5 JAPAN	12 LL	1 92 17		RF=TaskI/est.wgt	
2 CHI-TAIW	5 LL	1 93	*	6.34498	2 JAPAN	12 LL	1 92 17		RF=TaskI/est.wgt	
21 CHI-TAIW	5 LL	1 93	1429	33.33839	21 JAPAN	12 LL	1 92 17		RF=TaskI/est.wgt	
24 CHI-TAIW	5 LL	1 93	*	33.33839	24 JAPAN	12 LL	1 92 17		RF=TaskI/est.wgt	
22 CHI-TAIW	5 LL	1 93	*	33.33839	22 JAPAN	12 LL	1 92 17		RF=TaskI/est.wgt	
5 KOREA	13 LL	1 93	169	1.97842	5 JAPAN	12 LL	1 92 17		RF=TaskI/est.wgt	
2 KOREA	13 LL	1 93	*	1.97842	2 JAPAN	12 LL	1 92 17		RF=TaskI/est.wgt	
21 KOREA	13 LL	1 93	11	0.25663	21 JAPAN	12 LL	1 92 17		RF=TaskI/est.wgt	
24 KOREA	13 LL	1 93	*	0.25663	24 JAPAN	12 LL	1 92 17		RF=TaskI/est.wgt	
22 KOREA	13 LL	1 93	*	0.25663	22 JAPAN	12 LL	1 92 17		RF=TaskI/est.wgt	
5 TEMP	UNCL	13 93	465	3.39700	5 C.VERT	65 HAND	19 93 17		RF=TaskI(92)/est.wgt	
24 TEMP	UNCL	13 93	643	1.91797	24 USA	25 RR	22 91 17		RF=TaskI/est.wgt	