

**DATA PREPARATION DONE BY THE SECRETARIAT FOR  
1993 SCRS MEETING FOR SWORDFISH CATCH-AT-SIZE**

*P. M. Miyake and P. Kebe*

The attached Table 1 shows all the data matching, substitution and raising done to create the swordfish catch-at-size table. It should be noted that the Taiwanese and Korean Task I figures for 1992 were carried over from 1991.

For some countries (Korea, Cuba, Taiwan, etc.) where the Task I catch cannot be broken down into fine areas (such as areas 1-7 and 4A and 4B), it was assumed that the proportion of the catches among the area is the same as the data which substituted their size data (in the above cases, Japanese longline data).

Nothing was done to update the Mediterranean catch-at-size base, because almost no new size data became available since the data base was created in 1992.

Table 1 Procedures adopted to update swordfish catch-at-size data base for 1993 SCRS meeting.

CATCHES							MATCHED SIZE DATA							
A	COUNTRY	GEAR	Y	T	CATC	R.F.	A	COUNTRY	GEAR	Y	T	WGH	NO.	REMARKS
R			E	I	(MT)	Y	R			E	I			
E			A	M		P	E			A	M			
A			R	E		E	A			R	E			
1	U.S.A.	LL	91	17	701	1.00000						0	15196	BY NATIONAL SCIENTISTS
1	U.S.A.	LL	92	17	624	1.00000						0	10033	BY NATIONAL SCIENTISTS
2	CANADA	LL	88	17	813	1.00000						80206	1612	BY NATIONAL SCIENTISTS
2	CANADA	HARP	88	17	22	1.00000						11299	127	BY NATIONAL SCIENTISTS
2	CANADA	RR	88	17	0	1.00000						7200	82	BY NATIONAL SCIENTISTS
2	JAPAN	LL	91	17	22	1.00000						0	0	BY NATIONAL SCIENTISTS
2	U.S.A.	LL	91	17	1662	1.00000						0	74633	BY NATIONAL SCIENTISTS
2	U.S.A.	TRAW	91	17	10	1.00000						0	137	BY NATIONAL SCIENTISTS
2	U.S.A.	HARP	91	17	2	1.00000						0	50	BY NATIONAL SCIENTISTS
2	U.S.A.	GILL	91	17	82	1.00000						0	1006	BY NATIONAL SCIENTISTS
2	U.S.A.	MWT	91	17	32	1.00000						0	405	BY NATIONAL SCIENTISTS
2	CANADA	LL	92	17	1460	1.00000						193003	3350	BY NATIONAL SCIENTISTS
2	CANADA	HARP	92	17	60	1.00000						42128	437	BY NATIONAL SCIENTISTS
3	CUBA	UNCL	92	17	27	0.01771	2	U.S.A.	LL	92	0	0	0	TASKI/EST'D WGHT
2	GRENADA	UNCL	92	17	1	0.00066	2	U.S.A.	LL	92	0	0	0	TASKI/EST'D WGHT
2	JAPAN	LL	92	17	26	1.00000						0	0	BY NATIONAL SCIENTISTS
2	U.S.A.	LL	92	17	1485	1.00000						0	29687	BY NATIONAL SCIENTISTS
2	U.S.A.	TRAW	92	17	11	1.00000						0	378	BY NATIONAL SCIENTISTS
2	U.S.A.	HARP	92	17	1	1.00000						0	7	BY NATIONAL SCIENTISTS
2	U.S.A.	MWT	92	17	13	1.00000						0	140	BY NATIONAL SCIENTISTS
2	U.S.A.	GILL	92	17	86	1.00000						0	2836	BY NATIONAL SCIENTISTS
3	U.S.A.	LL	91	17	798	1.00000						0	15820	BY NATIONAL SCIENTISTS
3	U.S.A.	LL	92	17	640	1.00000						0	14744	BY NATIONAL SCIENTISTS
3	VENEZUELA	LL	92	17	299	0.46213	3	U.S.A.	LL	92	0	0	0	TASKI/EST'D WGHT
14	CANADA	LL	88	17	61	1.00000						24939	404	BY NATIONAL SCIENTISTS
14	CANADA	HARP	88	17	1	1.00000						7200	82	BY NATIONAL SCIENTISTS
14	JAPAN	LL	91	17	360	1.00000						0	0	BY NATIONAL SCIENTISTS
14	U.S.A.	LL	91	17	1005	1.00000						0	19220	BY NATIONAL SCIENTISTS
14	CANADA	LL	92	17	0	1.00000						113	1	BY NATIONAL SCIENTISTS
14	CANADA	LL	92	17	266	1.00000						146282	2633	BY NATIONAL SCIENTISTS
14	CANADA	HARP	92	17	0	1.00000						9170	58	BY NATIONAL SCIENTISTS
14	CHI-TAIW	LL	92	17	43	0.21907	14	JAPAN	LL	92	0	0	0	TASKI/EST'D WGHT
14	ESPANA	LLHB	92	17	1069	1.00000						0	22018	BY NATIONAL SCIENTISTS
14	JAPAN	LL	92	17	192	1.00000						0	0	BY NATIONAL SCIENTISTS
14	KOREA	LL	92	17	1	0.00275	14	JAPAN	LL	92	0	0	0	TASKI/EST'D WGHT
14	U.S.A.	LL	92	17	973	1.00000						0	21235	BY NATIONAL SCIENTISTS
24	CAP VERT	HAND	89	17	0	0.00000						0	0	TASKI CHANGED
24	SENEGAL	HAND	89	17	1	0.00031	24	ESPANA	LL	89	0	0	0	TASKI/TASKI
24	JAPAN	LL	91	17	610	1.00000						0	0	BY NATIONAL SCIENTISTS
24	PORT-AZOR	LL	91	17	471	1.00000						0	0	BY NATIONAL SCIENTISTS
24	PORT-MDRA	LL	91	17	2	0.00460	24	PORT-AZO	LL	91	0	0	0	TASKI/EST'D WGHT
24	SENEGAL	HAND	91	17	6	0.00154	24	ESPANA	LL	91	0	0	0	TASKI/TASKI
24	CHI-TAIW	LL	92	17	196	0.21900	24	JAPAN	LL	92	0	0	0	TASKI/EST'D WGHT
24	KOREA	LL	92	17	2	0.00275	24	JAPAN	LL	92	0	0	0	TASKI/EST'D WGHT
24	ESPANA	LLHB	92	17	4007	1.00000						0	67975	BY NATIONAL SCIENTISTS
24	ESPANA	TRAP	92	7	2	0.28188	24	ESPANA	UNCL	92	7	0	0	TASKI/EST'D WGHT
24	ESPANA	TRAP	92	6	0	0.00168	24	ESPANA	UNCL	92	6	0	0	TASKI/EST'D WGHT
24	ESPANA	TRAP	92	4	1	0.17753	24	ESPANA	UNCL	92	4	0	0	TASKI/EST'D WGHT
24	ESPANA	UNCL	92	17	314	1.00000						0	4336	BY NATIONAL SCIENTISTS
24	ESPANA	UNCL	92	11	2	0.16528	24	ESPANA	UNCL	92	10	0	0	TASKI/EST'D WGHT
24	ESPANA-CAN	BB	92	17	2	0.00049	24	ESPANA	LLHB	92	0	0	67975	TASKI/EST'D WGHT
24	FRANCE	UNCL	92	17	75	0.01823	24	ESPANA	LLHB	92	0	0	67975	TASKI/EST'D WGHT
24	JAPAN	LL	92	17	826	1.00000						0	0	
24	MAROC	LL	92	17	17	0.00413	24	ESPANA	LLHB	92	0	0	0	TASKI/EST'D WGHT
24	MAROC	PS	92	17	68	0.26878	24	ESPANA	UNCL	92	0	0	0	TASKI/EST'D WGHT
24	MAROC	TRAP	92	17	13	0.05139	24	ESPANA	UNCL	92	0	0	0	TASKI/EST'D WGHT
24	MAROC	GILL	92	17	254	1.00399	24	ESPANA	UNCL	92	0	0	0	TASKI/EST'D WGHT
24	PORT-AZOR	LL	92	17	344	1.00000						0	0	BY NATIONAL SCIENTISTS
24	PORT-MDRA	LL	92	17	2	0.00625	24	PORT-AZOR	LL	92	0	0	0	TASKI/EST'D WGHT
24	PORT-MDRA	HAND	92	17	45	13.79818						0	56	TASKI/EST'D WGHT
24	PORTUGAL	LLHB	92	17	146	0.45613	24	PORT-AZOR	LL	92	0	0	0	TASKI/EST'D WGHT
24	SENEGAL	HAND	92	17	6	0.00146	24	ESPANA	LLHB	92	0	0	67975	TASKI/EST'D WGHT
6	BRASIL	LLHB	88	17	664	1.05397						0	0	TASKI CHANGED RE-RAISED
6	BRASIL	LLHB	89	17	711	1.36994						0	0	TASKI CHANGED RE-RAISED
6	BRASIL	LLHB	90	17	770	1.05915						0	0	TASKI CHANGED RE-RAISED
6	BRASIL	LLHB	91	17	681	0.93673						0	0	TASKI CHANGED RE-RAISED
6	JAPAN	LL	91	17	1482	1.00000						0	0	BY NATIONAL SCIENTISTS
6	ARGENTINA	UNCL	92	17	88	0.08187	6	JAPAN	LL	92	0	0	0	TASKI/EST'D WGHT

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CATCHES							MATCHED SIZE DATA							
A	COUNTRY	GEAR	Y	T	CATC	R.F.	A	COUNTRY	GEAR	Y	T	WGH	NO.	REMARKS
R			E	I	(MT)	Y	R			E	I			
E			A	M	P		E			A	M			
A			R	E	E		A			R	E			
6	BRAS.CHI	LLFB	92	17	301	0.28003	6	JAPAN	LL	92	0	0	0	TASKI/EST'D WGHT
6	BRAS.JPN	LLFB	92	17	33	0.03070	6	JAPAN	LL	92	0	0	0	TASKI/EST'D WGHT
6	BRASIL	LLHB	92	17	73	0.06791	6	JAPAN	LL	92	0	0	0	TASKI/EST'D WGHT
6	CHI-TAIW	LL	92	17	322	0.29996	6	JAPAN	LL	92	0	0	0	TASKI/EST'D WGHT
6	ESPANA	LLHB	92	17	2935	1.00000						0	27148	BY NATIONAL SCIENTISTS
6	JAPAN	LL	92	17	1114	1.00000						0	0	BY NATIONAL SCIENTISTS
6	KOREA	LL	92	17	59	0.05519	6	JAPAN	LL	92	0	0	0	TASKI/EST'D WGHT
6	URUGUAY	LLHB	92	17	201	0.18700	6	JAPAN	LL	92	0	0	0	TASKI/EST'D WGHT
7	JAPAN	LL	91	17	2214	1.00000						0	0	BY NATIONAL SCIENTISTS
7	BENIN	GILL	92	17	28	0.00921	7	ESPANA	LLHB	92	0	0	29590	TASKI/EST'D WGHT
7	C.IVOIRE	SURF	92	17	7	0.00230	7	ESPANA	LLHB	92	0	0	29590	TASKI/EST'D WGHT
7	CHI-TAIW	LL	92	17	477	0.29994	7	JAPAN	LL	92	0	0	0	TASKI/EST'D WGHT
7	CUBA	UNCL	92	17	246	0.08093	7	ESPANA	LLHB	92	0	0	29590	TASKI/EST'D WGHT
7	ESPANA	LLHB	92	17	2703	1.00000						0	29590	BY NATIONAL SCIENTISTS
7	GHANA	SURF	92	17	235	0.07731	7	ESPANA	LLHB	92	0	0	29590	TASKI/EST'D WGHT
7	JAPAN	LL	92	17	1499	1.00000						0	0	BY NATIONAL SCIENTISTS
7	KOREA	LL	92	17	88	0.05518	7	JAPAN	LL	92	0	0	0	TASKI/EST'D WGHT
7	NIGERIA	SURF	92	17	3	0.00099	7	ESPANA	LLHB	92	0	0	29590	TASKI/EST'D WGHT
7	SAFRICA	SPOR	92	17	1	0.00033	7	ESPANA	LLHB	92	0	0	29590	TASKI/EST'D WGHT
7	SAFRICA	TRAW	92	17	9	0.00296	7	ESPANA	LLHB	92	0	0	29590	TASKI/EST'D WGHT
7	TOGO	UNCL	92	17	5	0.00164	7	ESPANA	LLHB	92	0	0	29590	TASKI/EST'D WGHT
						0.00000								
5	ITALY	LLHB	90	17	0	0.00000						0	0	NOTHING DONE
5	ITALY	GILL	90	17	0	0.00000						0	0	NOTHING DONE
5	ITALY-LIGU	LLHB	90	17	150	0.00000						0	0	NOTHING DONE
5	ITALY-TYRR	LLHB	90	17	2289	0.00000						0	0	NOTHING DONE
5	ITALY-TYRR	TRAP	90	17	1	0.00000						0	0	NOTHING DONE
5	ITALY-TYRR	HARP	90	17	4	0.00000						0	0	NOTHING DONE
5	ITALY-TYRR	GILL	90	17	2970	0.00000						0	0	NOTHING DONE
5	ITALY	LLHB	91	17	0	0.00000						0	0	NOTHING DONE
5	ITALY	GILL	91	17	0	0.00000						0	0	NOTHING DONE
5	ITALY-LIGU	LLHB	91	17	94	0.00000						0	0	NOTHING DONE
5	ITALY-LIGU	GILL	91	17	72	0.00000						0	0	NOTHING DONE
5	ITALY-TYRR	LLHB	91	17	3265	0.00000						0	0	NOTHING DONE
5	ITALY-TYRR	HARP	91	17	18	0.00000						0	0	NOTHING DONE
5	ITALY-TYRR	GILL	91	17	2764	0.00000						0	0	NOTHING DONE
5	JAPAN	LL	91	17	0	1.00000	5	JAPAN	LL	91	17	0	0	NOTHING DONE
5	ALGERIE	LL	92	17	173	0.00000						0	0	NOTHING DONE
5	ALGERIE	UNCL	92	17	389	0.00000						0	0	NOTHING DONE
5	CYPRUS	LL	92	17	162	0.00000						0	0	NOTHING DONE
5	ESPANA	LLHB	92	17	790	1.00000	5	ESPANA	LLHB	92	17	0	13745	NOTHING DONE
5	ESPANA	UNCL	92	17	32	1.00000	5	ESPANA	UNCL	92	17	0	410	NOTHING DONE
5	ESPANA	HAND	92	17	0	1.00000	5	ESPANA	HAND	92	17	0	5	NOTHING DONE
5	GREECE	LL	92	17	1904	0.00000						0	0	NOTHING DONE
5	ITALY-LIGU	LLHB	92	17	44	0.00000						0	0	NOTHING DONE
5	ITALY-LIGU	GILL	92	17	57	0.00000						0	0	NOTHING DONE
5	ITALY-TYRR	LLHB	92	17	3419	0.00000						0	0	NOTHING DONE
5	ITALY-TYRR	TRAP	92	17	1	0.00000						0	0	NOTHING DONE
5	ITALY-TYRR	HARP	92	17	25	0.00000						0	0	NOTHING DONE
5	ITALY-TYRR	GILL	92	17	4040	0.00000						0	0	NOTHING DONE
5	JAPAN	LL	92	17	2	1.00000	5	JAPAN	LL	92	17	0	0	NOTHING DONE
5	MALTA	LL	92	17	71	0.00000						0	0	NOTHING DONE
5	MAROC	LL	92	17	34	0.00000						0	0	NOTHING DONE
5	MAROC	PS	92	17	137	0.00000						0	0	NOTHING DONE
5	MAROC	GILL	92	17	512	0.00000						0	0	NOTHING DONE
5	NEI_2	LL	92	17	733	0.00000						0	0	NOTHING DONE
5	NEI_2	GILL	92	17	559	0.00000						0	0	NOTHING DONE
5	TUNISIE	UNCL	92	17	181	0.00000						0	0	NOTHING DONE
5	TURKEY	GILL	92	17	243	0.00000						0	0	NOTHING DONE