

INTERNATIONAL COMMISSION FOR THE  
CONSERVATION OF ATLANTIC TUNAS

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

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**UPDATING OF THE CATCH-AT-SIZE DATA BASE FOR SWORDFISH  
DATA SUBSTITUTION, AND RAISING TO THE TOTAL CATCH,  
PRESENTED TO THE SCRS STOCK ASSESSMENT SESSION**

by

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

Table. Procedures adopted to update swordfish catch-at-size data base for 1994 SCRS meeting.

REVISED

CATCH DATA						MATCHED SIZE DATA													
A	COUNTRY	C	GEAR	G	Y	T	CATC	R.F.	AR	COUNTRY	C	GEAR	G	Y	T	WGHT	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			
6	ARGENTINA	2	UNCL	13	86	17	31	0.09936	6	ARGENTINA	2	UNCL	13	86	17			TaskI changed. Re-raised.	
6	ARGENTINA	2	UNCL	13	87	17	351	1.17000	6	ARGENTINA	2	UNCL	13	87	17			TaskI changed. Re-raised.	
6	ARGENTINA	2	UNCL	13	91	17	88	0.38261	6	ARGENTINA	2	UNCL	13	91	17			TaskI changed. Re-raised.	
N	CHI-TAIW	5	LL	1	91	17	574	2.40167	NO	CHI-TAIW	5	LL	1	91	17			TaskI changed. Re-raised.	
S	CHI-TAIW	5	LL	1	91	17	837	1.04756	SO	CHI-TAIW	5	LL	1	91	17			TaskI changed. Re-raised.	
2	CUBA	6	UNCL	13	91	17	232	0.13364	2	U.S.A.	25	LL	1	91	17			R.F.=TaskI/Est.smpl.wght	
3	CUBA	6	UNCL	13	92	17	23	0.00000										Task I changed. Delete	
7	CUBA	6	UNCL	13	92	17	209	0.00000										Task I changed. Delete	
2	CUBA	6	UNCL	13	92	17	273	0.17847	2	U.S.A.	25	LL	1	92	17			R.F.=TaskI/Est.smpl.wght	
24	FRANCE	8	UNCL	13	90	17	75	0.01849	24	ESPANA	21	LL	1	90	17			R.F.=TaskI/Est.smpl.wght	
N	KOREA	13	LL	1	90	17	51	1.75862	N	KOREA	13	LL	1	90	17			TaskI changed. Re-raised.	
S	KOREA	13	LL	1	90	17	50	0.73529	S	KOREA	13	LL	1	90	17			TaskI changed. Re-raised.	
24	PORT-AZOR	19	LL	1	87	17	360	1.07463	24	PORT-AZOR	19	LL	1	87	17			TaskI changed. Re-raised.	
24	PORT-AZOR	19	LL	1	88	17	225	1.05634	24	PORT-AZOR	19	LL	1	88	17			TaskI changed. Re-raised.	
24	PORT-AZOR	19	LL	1	89	17	107	1.02885	24	PORT-AZOR	19	LL	1	89	17			TaskI changed. Re-raised.	
24	PORT-AZOR	19	LL	1	90	17	211	0.98598	24	PORT-AZOR	19	LL	1	90	17			TaskI changed. Re-raised.	
24	PORT-AZOR	19	LL	1	91	17	498	1.05732	24	PORT-AZOR	19	LL	1	91	17			TaskI changed. Re-raised.	
7	S.AFRICA	20	LLHB	4	88	17	0	0.00000	7	S.AFRICA	20	LLHB	4	88	17			Task I changed. Delete	
2	ESPANA	21	TRAW	14	78	17	11	0.16018	14	U.S.A.	25	LL	1	78	17			R.F.=TaskI/Est.smpl.wght	
6	ESPANA	21	LLHB	4	91	17	2898	1.00000	6	ESPANA	21	LLHB	4	91	17	0	26161	Re-raised by nat. sci.	
7	ESPANA	21	LLHB	4	91	17	2862	1.00000	7	ESPANA	21	LLHB	4	91	17	0	23165	Re-raised by nat. sci.	
14	ESPANA	21	LLHB	4	91	17	1854	1.00000	14	ESPANA	21	LLHB	4	91	17	0	28985	Re-raised by nat. sci.	
24	ESPANA	21	LLHB	4	91	17	4652	1.00000	24	ESPANA	21	LLHB	4	91	17	0	54794	Re-raised by nat. sci.	
1	U.S.A.	25	LL	1	82	17	666	1.00000	1	U.S.A.	25	LL	1	82	17	0	8655	Re-raised by nat. sci.	
2	U.S.A.	25	LL	1	82	17	3992	1.00000	2	U.S.A.	25	LL	1	82	17	0	71438	Re-raised by nat. sci.	
14	U.S.A.	25	LL	1	82	17	613	1.00000	14	U.S.A.	25	LL	1	82	17	0	14875	Re-raised by nat. sci.	
2	U.S.A.	25	HARP	18	82	17	115	1.00000	2	U.S.A.	25	HARP	18	82	17	0	717	Re-raised by nat. sci.	
14	U.S.A.	25	HARP	18	82	17	21	1.00000	14	U.S.A.	25	HARP	18	82	17	0	239	Re-raised by nat. sci.	
1	U.S.A.	25	LL	1	83	17	402	1.00000	1	U.S.A.	25	LL	1	83	17	0	38225	Re-raised by nat. sci.	
2	U.S.A.	25	LL	1	83	17	3421	1.00000	2	U.S.A.	25	LL	1	83	17	0	54496	Re-raised by nat. sci.	
14	U.S.A.	25	LL	1	83	17	687	1.00000	14	U.S.A.	25	LL	1	83	17	0	22153	Re-raised by nat. sci.	
2	U.S.A.	25	HARP	18	83	17	288	1.00000	2	U.S.A.	25	HARP	18	83	17	0	1662	Re-raised by nat. sci.	
14	U.S.A.	25	HARP	18	83	17	5	1.00000	14	U.S.A.	25	HARP	18	83	17	0	360	Re-raised by nat. sci.	
1	U.S.A.	25	LL	1	84	17	396	1.00000	1	U.S.A.	25	LL	1	84	17	0	10969	Re-raised by nat. sci.	
2	U.S.A.	25	LL	1	84	17	3300	1.00000	2	U.S.A.	25	LL	1	84	17	0	55533	Re-raised by nat. sci.	
3	U.S.A.	25	LL	1	84	17	24	1.00000	3	U.S.A.	25	LL	1	84	17	0	423	Re-raised by nat. sci.	
14	U.S.A.	25	LL	1	84	17	946	1.00000	14	U.S.A.	25	LL	1	84	17	0	10113	Re-raised by nat. sci.	
2	U.S.A.	25	HARP	18	84	17	1	1.00000	2	U.S.A.	25	HARP	18	84	17	0	26	Re-raised by nat. sci.	
1	U.S.A.	25	LL	1	85	17	638	1.00000	1	U.S.A.	25	LL	1	85	17	0	8981	Re-raised by nat. sci.	
2	U.S.A.	25	LL	1	85	17	2347	1.00000	2	U.S.A.	25	LL	1	85	17	0	73020	Re-raised by nat. sci.	
3	U.S.A.	25	LL	1	85	17	405	1.00000	3	U.S.A.	25	LL	1	85	17	0	5841	Re-raised by nat. sci.	
14	U.S.A.	25	LL	1	85	17	1255	1.00000	14	U.S.A.	25	LL	1	85	17	0	16013	Re-raised by nat. sci.	
2	U.S.A.	25	HARP	18	85	17	38	1.00000	2	U.S.A.	25	HARP	18	85	17	0	376	Re-raised by nat. sci.	
14	U.S.A.	25	HARP	18	85	17	3	1.00000	14	U.S.A.	25	HARP	18	85	17	0	94	Re-raised by nat. sci.	
1	U.S.A.	25	LL	1	86	17	447	1.00000	1	U.S.A.	25	LL	1	86	17	0	7563	Re-raised by nat. sci.	
2	U.S.A.	25	LL	1	86	17	2105	1.00000	2	U.S.A.	25	LL	1	86	17	0	60118	Re-raised by nat. sci.	
3	U.S.A.	25	LL	1	86	17	1175	1.00000	3	U.S.A.	25	LL	1	86	17	0	24854	Re-raised by nat. sci.	
14	U.S.A.	25	LL	1	86	17	1416	1.00000	14	U.S.A.	25	LL	1	86	17	0	18806	Re-raised by nat. sci.	
2	U.S.A.	25	HARP	18	86	17	18	1.00000	2	U.S.A.	25	HARP	18	86	17	0	99	Re-raised by nat. sci.	
2	U.S.A.	25	GIL	24	86	17	49	1.00000	2	U.S.A.	25	GIL	24	86	17	0	1180	Re-raised by nat. sci.	
1	U.S.A.	25	LL	1	87	17	695	1.00000	1	U.S.A.	25	LL	1	87	17	0	4965	Re-raised by nat. sci.	
2	U.S.A.	25	LL	1	87	17	2076	1.00000	2	U.S.A.	25	LL	1	87	17	0	56861	Re-raised by nat. sci.	
3	U.S.A.	25	LL	1	87	17	1021	1.00000	3	U.S.A.	25	LL	1	87	17	0	24555	Re-raised by nat. sci.	
14	U.S.A.	25	LL	1	87	17	1372	1.00000	14	U.S.A.	25	LL	1	87	17	0	24692	Re-raised by nat. sci.	
2	U.S.A.	25	HARP	18	87	17	29	1.00000	2	U.S.A.	25	HARP	18	87	17	0	42	Re-raised by nat. sci.	
2	U.S.A.	25	GIL	24	87	17	54	1.00000	2	U.S.A.	25	GIL	24	87	17	0	236	Re-raised by nat. sci.	
1	U.S.A.	25	LL	1	88	17	1037	1.00000	1	U.S.A.	25	LL	1	88	17	0	10626	Re-raised by nat. sci.	
2	U.S.A.	25	LL	1	88	17	2184	1.00000	2	U.S.A.	25	LL	1	88	17	0	1E+0	Re-raised by nat. sci.	
3	U.S.A.	25	LL	1	88	17	859	1.00000	3	U.S.A.	25	LL	1	88	17	0	26226	Re-raised by nat. sci.	
14	U.S.A.	25	LL	1	88	17	1943	1.00000	14	U.S.A.	25	LL	1	88	17	0	30212	Re-raised by nat. sci.	
2	U.S.A.	25	HARP	18	88	17	31	1.00000	2	U.S.A.	25	HARP	18	88	17	0	126	Re-raised by nat. sci.	

Table. Procedures adopted to update swordfish catch-at-size data base for 1994 SCRS meeting.

REVISED

CATCH DATA						MATCHED SIZE DATA								
A	COUNTRY	C	GEAR	G Y T	CATC	R.F.	AR	COUNTRY	C	GEAR	G Y T	WGHT	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			
2	U.S.A.	25	GIL	24 88 17	111	1.00000	2	U.S.A.	25	GIL	24 88 17	0	1536	Re-raised by nat. sci.
14	U.S.A.	25	GIL	24 88 17	9	1.00000	14	U.S.A.	25	GIL	24 88 17	0	992	Re-raised by nat. sci.
1	U.S.A.	25	LL	1 89 17	1049	1.00000	1	U.S.A.	25	LL	1 89 17	0	14516	Re-raised by nat. sci.
2	U.S.A.	25	LL	1 89 17	2316	1.00000	2	U.S.A.	25	LL	1 89 17	0	89968	Re-raised by nat. sci.
3	U.S.A.	25	LL	1 89 17	949	1.00000	3	U.S.A.	25	LL	1 89 17	0	22566	Re-raised by nat. sci.
14	U.S.A.	25	LL	1 89 17	1546	1.00000	14	U.S.A.	25	LL	1 89 17	0	32297	Re-raised by nat. sci.
2	U.S.A.	25	HARP	18 89 17	32	1.00000	2	U.S.A.	25	HARP	18 89 17	0	114	Re-raised by nat. sci.
2	U.S.A.	25	GIL	24 89 17	524	1.00000	2	U.S.A.	25	GIL	24 89 17	0	8091	Re-raised by nat. sci.
1	U.S.A.	25	LL	1 90 17	508	1.00000	1	U.S.A.	25	LL	1 90 17	0	10133	Re-raised by nat. sci.
2	U.S.A.	25	LL	1 90 17	2527	1.00000	2	U.S.A.	25	LL	1 90 17	0	84867	Re-raised by nat. sci.
3	U.S.A.	25	LL	1 90 17	1059	1.00000	3	U.S.A.	25	LL	1 90 17	0	14733	Re-raised by nat. sci.
14	U.S.A.	25	LL	1 90 17	875	1.00000	14	U.S.A.	25	LL	1 90 17	0	22902	Re-raised by nat. sci.
2	U.S.A.	25	TRWL	14 90 17	9	1.00000	2	U.S.A.	25	TRWL	14 90 17	0	165	Re-raised by nat. sci.
2	U.S.A.	25	HARP	18 90 17	8	1.00000	2	U.S.A.	25	HARP	18 90 17	0	44	Re-raised by nat. sci.
2	U.S.A.	25	GIL	24 90 17	535	1.00000	2	U.S.A.	25	GIL	24 90 17	0	4594	Re-raised by nat. sci.
1	U.S.A.	25	LL	1 91 17	703	1.00000	1	U.S.A.	25	LL	1 91 17	0	15196	Re-raised by nat. sci.
2	U.S.A.	25	LL	1 91 17	1680	1.00000	2	U.S.A.	25	LL	1 91 17	0	74633	Re-raised by nat. sci.
3	U.S.A.	25	LL	1 91 17	798	1.00000	3	U.S.A.	25	LL	1 91 17	0	15820	Re-raised by nat. sci.
14	U.S.A.	25	LL	1 91 17	1005	1.00000	14	U.S.A.	25	LL	1 91 17	0	19220	Re-raised by nat. sci.
2	U.S.A.	25	TRWL	14 91 17	10	1.00000	2	U.S.A.	25	TRWL	14 91 17	0	137	Re-raised by nat. sci.
2	U.S.A.	25	HARP	18 91 17	2	1.00000	2	U.S.A.	25	HARP	18 91 17	0	50	Re-raised by nat. sci.
2	U.S.A.	25	GIL	24 91 17	82	1.00000	2	U.S.A.	25	GIL	24 91 17	0	1006	Re-raised by nat. sci.
1	U.S.A.	25	LLD	33 91 17	143	1.00000	1	U.S.A.	25	LLD	33 91 17	0	0	Re-raised by nat. sci.
2	U.S.A.	25	LLD	33 91 17	11	1.00000	2	U.S.A.	25	LLD	33 91 17	0	51	Re-raised by nat. sci.
3	U.S.A.	25	LLD	33 91 17	11	1.00000	3	U.S.A.	25	LLD	33 91 17	0	0	Re-raised by nat. sci.
14	U.S.A.	25	LLD	33 91 17	34	1.00000	14	U.S.A.	25	LLD	33 91 17	0	0	Re-raised by nat. sci.
2	U.S.A.	25	MWTD	34 91 17	32	1.00000	2	U.S.A.	25	MWTD	34 91 17	0	405	Re-raised by nat. sci.
7	GHANA	27	SURF	11 81 17	23	1.43750	7	GHANA	27	SURF	11 81 23			TaskI changed. Re-raised.
7	GHANA	27	SURF	11 83 17	88	3.52000	7	GHANA	27	SURF	11 83 23			TaskI changed. Re-raised.
7	GHANA	27	SURF	11 84 17	170	3.40000	7	GHANA	27	SURF	11 84 23			TaskI changed. Re-raised.
7	GHANA	27	SURF	11 85 17	121	2.75000	7	GHANA	27	SURF	11 85 23			TaskI changed. Re-raised.
3	GRENADA	30	UNCL	13 88 17	56	0.06261	3	U.S.A.	25	LL	1 88 17			R.F.=TaskI/Est.smpl.wght
3	GRENADA	30	UNCL	13 89 17	5	0.00513	3	U.S.A.	25	LL	1 89 17			R.F.=TaskI/Est.smpl.wght
3	GRENADA	30	UNCL	13 90 17	1	0.00093	3	U.S.A.	25	LL	1 90 17			R.F.=TaskI/Est.smpl.wght
3	GRENADA	30	UNCL	13 91 17	1	0.00123	3	U.S.A.	25	LL	1 91 17			R.F.=TaskI/Est.smpl.wght
1	MEXICO	31	UNCL	13 78 17	2	0.07832	1	U.S.A.	25	LL	1 78 17			R.F.=TaskI/Est.smpl.wght
3	TRINIDAD	41	LL	1 83 17	21	0.00605	2	U.S.A.	25	LL	1 83 17			R.F.=TaskI/Est.smpl.wght
3	TRINIDAD	41	LL	1 84 17	26	1.08813	3	U.S.A.	25	LL	1 84 17			R.F.=TaskI/Est.smpl.wght
3	TRINIDAD	41	LL	1 85 17	6	0.01476	3	U.S.A.	25	LL	1 85 17			R.F.=TaskI/Est.smpl.wght
3	TRINIDAD	41	LL	1 86 17	45	0.03736	3	U.S.A.	25	LL	1 86 17			R.F.=TaskI/Est.smpl.wght
3	TRINIDAD	41	LL	1 87 17	151	0.14323	3	U.S.A.	25	LL	1 87 17			R.F.=TaskI/Est.smpl.wght
3	TRINIDAD	41	LL	1 88 17	42	0.04696	3	U.S.A.	25	LL	1 88 17			R.F.=TaskI/Est.smpl.wght
3	TRINIDAD	41	LL	1 89 17	79	0.08098	3	U.S.A.	25	LL	1 89 17			R.F.=TaskI/Est.smpl.wght
3	TRINIDAD	41	LL	1 90 17	66	0.06111	3	U.S.A.	25	LL	1 90 17			R.F.=TaskI/Est.smpl.wght
3	TRINIDAD	41	LL	1 91 17	71	0.08634	3	U.S.A.	25	LL+LLD	1 91 17			R.F.=TaskI/Est.smpl.wght
6	URUGUAY	42	LLHB	4 87 17	699	0.89329	6	JAPAN	12	LL	1 87 17			R.F.=TaskI/Est.smpl.wght
6	BRAS.HOND	102	LLFB	3 91 17	17	0.13941	6	BRAS.JPN	57	LLFB	3 91 17			R.F.=TaskI/Est.smpl.wght
3	ST. VINCE	111	UNCL	13 90 17	3	0.00278	3	U.S.A.	25	LL	1 90 17			R.F.=TaskI/Est.smpl.wght
3	NEI2	103	UNCL	13 81 17	12	0.00403	2	U.S.A.	25	LL	1 81 17			R.F.=TaskI/Est.smpl.wght
3	NEI2	103	UNCL	13 86 17	14	0.01162	3	U.S.A.	25	LL	1 86 17			R.F.=TaskI/Est.smpl.wght
3	NEI2	103	UNCL	13 87 17	3	0.00285	3	U.S.A.	25	LL	1 87 17			R.F.=TaskI/Est.smpl.wght
3	NEI2	103	UNCL	13 88 17	131	0.14646	3	U.S.A.	25	LL	1 88 17			R.F.=TaskI/Est.smpl.wght
3	NEI2	103	UNCL	13 89 17	190	0.19476	3	U.S.A.	25	LL	1 89 17			R.F.=TaskI/Est.smpl.wght
3	NEI2	103	UNCL	13 90 17	185	0.17129	3	U.S.A.	25	LL	1 90 17			R.F.=TaskI/Est.smpl.wght
3	NEI2	103	UNCL	13 91 17	43	0.05229	3	U.S.A.	25	LL+LLD	1 91 17			R.F.=TaskI/Est.smpl.wght
6	BRASIL	3	LLHB	4 92 17	603	0.61971	6	JAPAN	12	LL	1 92 17	0	0	R.F.=Task I/Est.Smpl.Wt
N	CHI-TAIW	4	LL	1 92 17	132	0.55230	NO	CHI-TAIW	4	LL	1 92 17			TaskI changed. Re-raised.
S	CHI-TAIW	4	LL	1 92 17	1271	1.59074	NO	CHI-TAIW	4	LL	1 92 17			TaskI changed. Re-raised.
2	JAPAN	12	LL	1 92 17	26	1.00000	2	JAPAN	12	LL	1 92 17	0	0	Re-raised by nat. sci.
6	JAPAN	12	LL	1 92 17	1114	1.00000	6	JAPAN	12	LL	1 92 17	0	0	Re-raised by nat. sci.

Table. Procedures adopted to update swordfish catch-at-size data base for 1994 SCRS meeting.

REVISED

CATCH DATA						MATCHED SIZE DATA										
A	COUNTRY	C	GEAR	G Y T	CATC	R.F.	AR	COUNTRY	C	GEAR	G Y T	WGHT	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					
7	JAPAN	12	LL	1	92 17	1499	1.00000	7	JAPAN	12	LL	1	92 17	0	0	Re-raised by nat. sci.
14	JAPAN	12	LL	1	92 17	192	1.00000	14	JAPAN	12	LL	1	92 17	0	0	Re-raised by nat. sci.
24	JAPAN	12	LL	1	92 17	826	1.00000	24	JAPAN	12	LL	1	92 17	0	0	Re-raised by nat. sci.
6	ESPANA	21	LLHB	4	92 17	2948	1.00000	6	ESPANA	21	LLHB	4	92 17	0	27148	Re-raised by nat. sci.
7	ESPANA	21	LLHB	4	92 17	2703	1.00000	7	ESPANA	21	LLHB	4	92 17	0	29590	Re-raised by nat. sci.
14	ESPANA	21	LLHB	4	92 17	1283	1.00000	14	ESPANA	21	LLHB	4	92 17	0	22018	Re-raised by nat. sci.
24	ESPANA	21	LLHB	4	92 17	5068	1.00000	24	ESPANA	21	LLHB	4	92 17	0	67975	Re-raised by nat. sci.
1	U.S.A.	25	LL	1	92 17	632	1.00000	1	U.S.A.	25	LL	1	92 17	0	10033	Re-raised by nat. sci.
2	U.S.A.	25	LL	1	92 17	ERR	1.00000	2	U.S.A.	25	LL	1	92 17	0	23133	Re-raised by nat. sci.
3	U.S.A.	25	LL	1	92 17	646	1.00000	3	U.S.A.	25	LL	1	92 17	0	14864	Re-raised by nat. sci.
14	U.S.A.	25	LL	1	92 17	973	1.00000	14	U.S.A.	25	LL	1	92 17	0	21235	Re-raised by nat. sci.
2	U.S.A.	25	TRWL	14	92 17	11	1.00000	2	U.S.A.	25	TRWL	14	92 17	0	276	Re-raised by nat. sci.
2	U.S.A.	25	HARP	18	92 17	1	1.00000	2	U.S.A.	25	HARP	18	92 17	0	7	Re-raised by nat. sci.
2	U.S.A.	25	GIL	24	92 17	86	1.00000	2	U.S.A.	25	GIL	24	92 17	0	2836	Re-raised by nat. sci.
1	U.S.A.	25	LLD	33	92 17	61	1.00000	1	U.S.A.	25	LLD	33	92 17	0	0	Re-raised by nat. sci.
2	U.S.A.	25	LLD	33	92 17	13	1.00000	2	U.S.A.	25	LLD	33	92 17	0	0	Re-raised by nat. sci.
3	U.S.A.	25	LLD	33	92 17	251	1.00000	3	U.S.A.	25	LLD	33	92 17	0	0	Re-raised by nat. sci.
14	U.S.A.	25	LLD	33	92 17	46	1.00000	14	U.S.A.	25	LLD	33	92 17	0	0	Re-raised by nat. sci.
2	U.S.A.	25	MWTD	34	92 17	13	1.00000	2	U.S.A.	25	MWTD	34	92 17	0	140	Re-raised by nat. sci.
24	PORT-AZOR	19	LL	1	92 17	349	1.01453	24	PORT-AZOR	19	LL	1	92 17			TaskI changed. Re-raised.
3	VENEZUELA	29	LL	1	92 17	111	0.16376	3	U.S.A.	25	LL+LLD	1	92 17			R.F.=Task I/Est.Smpl.Wt
3	TRINIDAD	41	LL	1	92 17	562	0.82913	3	U.S.A.	25	LL+LLD	1	92 17			R.F.=Task I/Est.Smpl.Wt
24	LIBERIA	51	UNCL	13	92 17	7	0.00134	24	ESPANA	21	LLHB	4	92 17			R.F.=Task I/Est.Smpl.Wt
6	BRAS.TAI	100	LLFB	3	92 17	1200	36.32588	6	BRAS.JPN	57	LLFB	3	92 17			R.F.=Task I/Est.Smpl.Wt
3	ST.VINC	111	UNCL	13	92 17	3	0.00443	3	U.S.A.	25	LL+LLD	1	92 17			R.F.=Task I/Est.Smpl.Wt
3	NEI2	103	UNCL	13	92 17	35	0.05164	3	U.S.A.	25	LL+LLD	1	92 17			R.F.=Task I/Est.Smpl.Wt
6	ARGENTINA	2	UNCL	13	93 17	14	0.01397	6	JAPAN	12	LL	1	93 17			R.F.=Task I/Est.Smpl.Wt
6	BRASIL	3	LLMB	2	93 17	31	0.03094	6	JAPAN	12	LL	1	93 17			R.F.=Task I/Est.Smpl.Wt
6	BRASIL	3	LLHB	4	93 17	582	0.58093	6	JAPAN	12	LL	1	93 17			R.F.=Task I/Est.Smpl.Wt
2	CANADA	4	LL	1	93 17	1715	1.00000	2	CANADA	4	LL	1	93 17			C/size by nat. sci
2	CANADA	4	HARP	18	93 17	28	1.00000	2	CANADA	4	HARP	18	93 17			C/size by nat. sci
14	CANADA	4	LL	1	93 17	490	1.00000	14	CANADA	4	LL	1	93 17	126872	2407	C/size by nat.but no taski
14	CANADA	4	HARP	18	93 17	++	1.00000	14	CANADA	4	HARP	18	93 17			C/size by nat.but no taski
2	CHI-TAIW	5	LL	1	93 17	239	0.20000	2	JAPAN	12	LL	1	93 17			R.F.=Task I/Est.Smpl.Wt
14	CHI-TAIW	5	LL	1	93 17		0.20000	14	JAPAN	12	LL	1	93 17			R.F.=Task I/Est.Smpl.Wt
24	CHI-TAIW	5	LL	1	93 17		0.20000	24	JAPAN	12	LL	1	93 17			R.F.=Task I/Est.Smpl.Wt
6	CHI-TAIW	5	LL	1	93 17		0.11693	6	JAPAN	12	LL	1	93 17			R.F.=Task I/Est.Smpl.Wt
7	CHI-TAIW	5	LL	1	93 17	641	0.11693	7	JAPAN	12	LL	1	93 17			R.F.=Task I/Est.Smpl.Wt
24	FRANCE	8	UNCL	13	93 17	75	0.01589	24	ESPANA	21	LLHB	4	93 17			C/size by nat. sci
2	JAPAN	12	LL	1	93 17	0	1.00000	2	JAPAN	12	LL	1	93 17			C/size by nat. sci
6	JAPAN	12	LL	1	93 17	0	1.00000	6	JAPAN	12	LL	1	93 17	0	0	C/size by nat. sci
7	JAPAN	12	LL	1	93 17	0	1.00000	7	JAPAN	12	LL	1	93 17	0	0	C/size by nat. sci
14	JAPAN	12	LL	1	93 17	0	1.00000	14	JAPAN	12	LL	1	93 17	0	0	C/size by nat. sci
24	JAPAN	12	LL	1	93 17	0	1.00000	24	JAPAN	12	LL	1	93 17	0	0	C/size by nat. sci
6	KOREA	13	LL	1	93 17	147	0.02682	6	JAPAN	12	LL	1	93 17			R.F.=Task I/Est.Smpl.Wt
7	KOREA	13	LL	1	93 17		0.02682	7	JAPAN	12	LL	1	93 17			R.F.=Task I/Est.Smpl.Wt
24	MAROC	16	TRAP	10	93 17	3	0.01921	14	ESPANA	21	UNCL	13	93 17			R.F.=Task I/Est.Smpl.Wt
24	MAROC	16	UNCL	13	93 17	454	2.90747	14	ESPANA	21	UNCL	13	93 17			R.F.=Task I/Est.Smpl.Wt
24	PORT-AZOR	19	LL	1	93 17	404	0.08558	24	ESPANA	21	LLHB	4	93 17			R.F.=Task I/Est.Smpl.Wt
24	PORTUGAL	19	LLHB	4	93 17	992	0.21013	24	ESPANA	21	LLHB	4	93 17			R.F.=Task I/Est.Smpl.Wt
24	PORT-MADR	19	LL	1	93 17	19	2.05906	24	PORT-MADR	19	LL	1	93 17	0	4394	R.F.=Task I/Est.Smpl.Wt
24	PORT-MADR	19	HAND	19	93 17	11	1.19209	24	PORT-MADR	19	LL	1	93 17			R.F.=Task I/Est.Smpl.Wt
7	S.AFRICA	20	SPOR	12	93 17	2	0.00045	7	JAPAN	12	LL	1	93 17			R.F.=Task I/Est.Smpl.Wt
7	S.AFRICA	20	TRAW	14	93 17	2	0.00045	7	JAPAN	12	LL	1	93 17			R.F.=Task I/Est.Smpl.Wt
3	TRINIDAD	41	LL	1	93 17	562	0.62539	3	U.S.A.	25	LL+LLD	1	93 17			R.F.=Task I/Est.Smpl.Wt
6	ESPANA	21	LL	1	93 17	4308	1.00000	6	ESPANA	21	LLHB	4	93 17	70700	22837	C/size by nat. sci
7	ESPANA	21	LL	1	93 17	2441	1.00000	7	ESPANA	21	LLHB	4	93 17	51353	37436	C/size by nat. sci
14	ESPANA	21	LL	1	93 17	1761	1.00000	14	ESPANA	21	LLHB	4	93 17	40236	25410	C/size by nat. sci
24	ESPANA	21	LL	1	93 17	4631	1.00000	24	ESPANA	21	LLHB	4	93 17	107488	61412	C/size by nat. sci
24	ESPANA-CAN	21	BB	17	93 17	3	0.00064	24	ESPANA	21	LLHB	4	93 17			R.F.=Task I/Est.Smpl.Wt

Table. Procedures adopted to update swordfish catch-at-size data base for 1994 SCRS meeting.

REVISED

CATCH DATA						MATCHED SIZE DATA								
A	COUNTRY	C	GEAR	G Y T	CATC	R.F.	AR	COUNTRY	C	GEAR	G Y T	WGHT	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			
24	ESPANA	21	UNCL	13 93 17	202	1.00000	24	ESPANA	21	UNCL	13 93 17			C/size by nat. sci
1	U.S.A.	25	LL	1 93 17	556	1.00000	1	U.S.A.	25	LL	1 93 17	0	9538	C/size by nat. sci
2	U.S.A.	25	LL	1 93 17	1348	1.00000	2	U.S.A.	25	LL	1 93 17	0	37003	C/size by nat. sci
3	U.S.A.	25	LL	1 93 17	845	1.00000	3	U.S.A.	25	LL	1 93 17	0	14367	C/size by nat. sci
14	U.S.A.	25	LL	1 93 17	919	1.00000	14	U.S.A.	25	LL	1 93 17	0	22146	C/size by nat. sci
2	U.S.A.	25	TRAW	14 93 17	7	1.00000	2	U.S.A.	25	TRWL	14 93 17	0	115	C/size by nat. sci
2	U.S.A.	25	HARP	18 93 17	++	1.00000	2	U.S.A.	25	HARP	18 93 17	0	4	C/size by nat. sci
2	U.S.A.	25	MWT	23 93 17	10	1.00000	2	U.S.A.	25	MWTD	34 93 17	0	80	C/size by nat. sci. ojo gears
2	U.S.A.	25	GIL	24 93 17	92	1.00000	2	U.S.A.	25	GIL	24 93 17	0	1049	C/size by nat. sci
1	U.S.A.	25	LLD	33 93 17	50	1.00000	1	U.S.A.	25	LLD	33 93 17	0	0	C/size by nat. sci
2	U.S.A.	25	LLD	33 93 17	279	1.00000	2	U.S.A.	25	LLD	33 93 17	0	0	C/size by nat. sci
3	U.S.A.	25	LLD	33 93 17	50	1.00000	3	U.S.A.	25	LLD	33 93 17	0	0	C/size by nat. sci
14	U.S.A.	25	LLD	33 93 17	42	1.00000	14	U.S.A.	25	LLD	33 93 17	0	0	C/size by nat. sci
3	VENEZUELA	29	LL	1 93 17	111	0.12352	3	U.S.A.	25	LL+LLD	1 93 17			R.F.=Task I/Est.Smpl.Wt
1	MEXICO	31	LL	1 93 17	6	0.00961	1	U.S.A.	25	LL+LLD	1 93 17			R.F.=Task I/Est.Smpl.Wt
6	URUGUAY	42	LL	1 93 17	201	0.20063	6	JAPAN	12	LL	1 93 17			R.F.=Task I/Est.Smpl.Wt
3	BRAS.JPN	57	LLFB	3 93 17	62	0.06189	6	JAPAN	12	LL	1 93 17			R.F.=Task I/Est.Smpl.Wt
3	BRAS.TWN	100	LLFB	3 93 17	1014	1.01214	6	JAPAN	12	LL	1 93 17			R.F.=Task I/Est.Smpl.Wt
3	BRAS.HON	102	LLFB	3 93 17	70	0.06987	6	JAPAN	12	LL	1 93 17			R.F.=Task I/Est.Smpl.Wt
7	BENIN	67	UNCL	13 93 17	26	0.00994	7	ESPANA	21	LLHB	4 93 17			R.F.=Task I/Est.Smpl.Wt
7	GHANA	27	UNCL	13 93 17	235	0.08985	7	ESPANA	21	LLHB	4 93 17			R.F.=Task I/Est.Smpl.Wt
3	NEI2	103	UNCL	13 93 17	111	0.12352	3	U.S.A.	25	LL+LLD	1 93 17			R.F.=Task I/Est.Smpl.Wt

NEI2: Unreported catches estimated based on U.S. import statistics.