

UPDATING OF BLUEFIN TUNA CATCH-BY-SIZE DATA BASE

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At the Bluefin Workshop held in Japan in 1983, the bluefin tuna catch-by-size data base was agreed upon for the east Atlantic (including Mediterranean) and the west Atlantic. The data base has been updated every year by the Secretariat and by national scientists and agreed upon at each year's Bluefin Working Group meetings (Dartmouth, 1984, and Miami, 1985).

Since no Working Group meeting was held for bluefin tuna in 1986, there was no opportunity to update and discuss the data base. Instead, the SCRS requested the Secretariat to update the base using its own resources.

Accordingly, the Secretariat, with the assistance of various national scientists, completed the task. The data which were available to the Secretariat at the time of updating are shown in Table 1 for the west Atlantic and in Table 2 for the east Atlantic and Mediterranean. Also shown in the tables are the data substitutions made for size data.

Updating involves two phases: modification of the data base available in 1985 and creating a new file for additional years. Most of the modification of past data are due to changes in Task I catches. However, the 1983 data base for the east Atlantic made in 1985 was very incomplete and since then much new data have become available. Therefore, for the east Atlantic, 1983 and 1984 files contain almost all new data. A file was not made for 1985 since the data are very scarce. For the west Atlantic, the temporary 1984 data base used in the 1985 meeting was substantially updated and 1985 catch-by-size was newly created. U.S. and Canadian data were substituted and raised to catch by U.S. scientists while Japanese data were processed by Japanese scientists, using Japanese measured data and U.S. observers data.

For the west Atlantic, tentative updating was completed by the end of September, 1985, and a copy of the file was sent to pertinent scientists. However, slight modifications were made after that date (i.e., inclusion of several fish reported by Taiwan University). The east Atlantic base was not completed until the week preceding the SCRS meeting.

TABLE 1. DATA AVAILABLE FOR THE WEST ATLANTIC BLUEFIN TUNA FOR 1985 AND UPDATES FOR 1960-84.

YEAR	COUNTRY	GEAR	TASK I (MT) C&E SIZE	SUBSTITUTION	REMARKS
1970 - 82					
	GRENADA	UNCL	14-100		All records deleted as TASK I changed
1981	CANADA	HAND	279		Deleted (double entry with RR)
1984	CHI(TAIW)	LL	(.3)YES YES		No Task I catch. All samples entered.
1984	JAPAN	LL	696 YES RAISED		
1984	OTHERS	UNCL	124	84 US HAND WEST	Raised by R.F. = 0.4496
(1984	URUGUAY	LL	9 NO NO		Combined as OTH UNCL)
(1984	DOM. REP.	UNCL	115 NO NO		Combined as OTH UNCL)
1985	CANADA	HAND	121 YES YES		Raised by NMFS, Miami
1985	CANADA	RR	1 NO NO	Incid in HAND	Raised by NMFS, Miami
1985	CANADA	TRAP	20 YES YES		Raised by NMFS, Miami
1985	JAPAN	LL	(1092)YES RAISED		Estimated total weight = 1092 MT
1985	U.S.A.	HAND	284 YES RAISED		
1985	U.S.A.	HARP	166 YES RAISED		
1985	U.S.A.	LL	132 YES RAISED		
1985	U.S.A.	PS	377 YES RAISED		
1985	U.S.A.	RR	465 YES RAISED		
1985	OTHERS	UNCL	122 NO NO	85 US HAND WEST	Raised by R.F. = .414825
(1985	BRAS. JPN	LL	1 NO NO		Combined as OTH UNCL)
(1985	ARGENTINA	UNCL	6 NO NO		Combined as OTH UNCL)
(1985	DOM. REP.	UNCL	115 NO NO		Combined as OTH UNCL)

"RAISED" size means that substituted and raised data were received from National scientists.

Table 2. Data availability and substitutions for E, At]. and Med.

YEAR	COUNTRY	GEAR	TASK I (MT)		Data availability		SUBSTITUTIONS	RAISING FACTORS & REMARKS
			OLD	NEW	C&E	SIZE		
EAST								
1970	SPAIN	BB	1473	1635			Re-raising	1.10999
1971	SPAIN	BB	1511	1575			Re-raising	1.04236
1972	SPAIN	BB	2141	1362			Re-raising	0.63615
1980	NORWAY	PS	286	282			Re-raising	0.98601
MEDIT								
1979	YUGOSLAV	PS	745	756			Re-raising	1.01477
1980	YUGOSLAV	PS	549	573			Re-raising	1.04372
1982	GREECE	PS		500	No	No	82 SPAIN LL MED	0.7775
1982	YUGOSLAV	PS	496	486			Re-raising	0.97984
1983	GREECE	PS		500	No	No	83 SPAIN LL MED	5.4609
1983	MALTA	UNCL		31	No	No	83 SPAIN LL MED	0.33858
1983	MOROCCO	SURF		1	No	No	83 SPAIN SURF MED	2.47954
1983	SPAIN	HAND		151	Yes	Yes		3.15043, WGT converted to FL
1983	SPAIN	LL		233	Yes	Yes		2.54478, WGT converted to FL
1983	SPAIN	TRAP		37	No	No	83 SPAIN HAND MED	0.77196
1983	SPAIN	SURF		391	Yes	Yes		970.22333
1983	YUGOSLAV	PS	1222	1218	No	No	Re-raising	0.99673
EAST								
1984	CAP VERT	BBF		1	No	No	84 Spain BB East	0.00046
1984	CHI (TAIWAN)	LL		(.2)	Yes	Yes		Task I=0. All samples entered
1984	FRANCE	BB		566	No	No	84 Spain BB East	0.26091
1984	FRANCE	TROL		36	No	No	84 Spain BB East	0.01660
1984	JAPAN	LL		1514	Yes	Raised		S.W. = 1154.4 MT
1984	MOROCCO	PS		127	No	No	84 Spain BB Med.	Only fish < 100cm, 20.0822
1984	MOROCCO	SURF		44	No	No	84 Spain BB Med.	Only fish < 100cm, 6.9581
1984	NORWAY	PS		242	Yes	Yes		100% coverage, WGT conv, FL
1984	PANAMA	LL		17	No	No	84 Japan LL East	0.01473
1984	PORT (AZ)	PS		3	Yes	Yes		100% coverage
1984	PORT (AZ)	BB		14	No	No	84 Spain BB East	0.006454
1984	PORT-MAD	HAND		1	No	No	84 Spain BB East	0.000461
1984	PORTUGAL	SURF		16	No	No	84 Spain BB East	0.007376
1984	SPAIN	BB		2364	Yes	Raised		S.W. = 2169.4 MT
1984	SPAIN	GILL		2	No	No	84 Spain BB East (July)	<95cm, 0.015124
1984	SPAIN	LL		7	No	Raised		S.W. = 6.8292
1984	SPAIN	PS		41	No	No	84 Spain BB East (July)	<95cm, 0.310042
1984	SPAIN	SURF		117	No	No	84 Spain BB East (July)	<95cm, 0.88476
1984	SPAIN	TRAP		2271	Yes	Yes		10.77887
1984	SPAIN-CAN	BB		2	Yes	No	84 Japan LL East Q1	0.03677
MEDIT								
1984	ALGERIE	UNCL		290	No	No	84 Spain BB Med	16.2156
1984	FRANCE	SPOR		30	No	No	84 France PSM Med	0.007944
1984	FRANCE	PSM		3570	Yes	Raised		S.W. = 3776.5 MT
1984	GREECE	PS		500	No	No	84 Spain LL Med	8.06543
1984	ITALY-TY	PSFB		3193	No	Yes		11.3565, incl. GILL, LL, UNCL
1984	ITALY-LI	PSFS		1141	No	No	84 France PSM Med	0.30213, incl. UNCL
1984	ITALY	TRAP		327	No	No	84 Spain Trap East	1.29363
1984	ITALY-ADR	PSFS		2170	No	No	84 Spain BB Med <100CM	317.251, incl. LL, HAND, SPOR, UNCL
1984	JAPAN	LL		1036	Yes	Raised		S.W. = 1238.8 MT
1984	LIBYA	UNCL		300	No	No	84 Spain TRAP East	1.186812
1984	MALTA	UNCL		21	No	No	84 Spain LL Med	.33875
1984	MOROCCO	SURF		4	No	No	84 Spain BB Med <100CM	.58454
1984	SPAIN	BB		1699	Yes	Yes		95.0224
1984	SPAIN	GILL		3	No	No	84 Spain Surf Med	0.70751
1984	SPAIN	HAND		145	Yes	Yes		1.70759
1984	SPAIN	LL		69	Yes	Yes		1.11302
1984	SPAIN	PS		79	No	No	84 France PSM Med	0.02092
1984	SPAIN	SURF		26	Yes	Yes		6.13179
1984	SPAIN	TRAP		621	Yes	Yes		42.04469
1984	SPAIN	UNCL		101	Yes	Yes		100% coverage
1984	TUNISIA	TRAP		80	No	No	84 Spain TRAP East	0.31648
1984	TURKEY	UNCL		869	No	No	84 Spain LL Med	14.01771
1984	YUGOSLAV	PS		825	No	No	84 Spain BB Med <100CM	120.56116