

SUBSTITUTION AND RAISING DONE BY THE SECRETARIAT FOR BLUEFIN TUNA FOR THE 1990 SCRS

ICCAT Secretariat
Príncipe de Vergara, 17 - 7, Madrid, Spain

SUBSTITUTIONS AND RAISING DONE DURING AND AFTER GFCM/ICCAT MED. MEETING, JUNE, 1990

CATCH				SIZE DATA (SUBSTITUTIONS)								
AR	COUNTRY	GEAR	YR TH	CATCH (KG)	R.F.	AR	COUNTRY	GR	YR TH	SAMPLE KG	REMARKS	
EAST ATLANTIC												
1	DENMARK	UNCL	B5	0	2000	0.06452	1	NORWAY	PS	86	0	SUBST.TASKI= 31000
1	JAPAN	LL	B8	0	1169000	1.46125	1					RE-RAISED OLD TASKI=30000
1	SPAIN	GILL	B8	0	4000	0.00192	1	SPAIN	B8	B8	0	SUBST.TASKI= 2082000
MEDITERRANEAN												
3	GREECE	UNCL	B1	0	0	0.00000	1					TASKI CHANGED AND DELETED
3	GREECE	UNCL	B2	0	0	0.00000	1					TASKI CHANGED AND DELETED
3	GREECE	UNCL	B3	0	0	0.00000	1					TASKI CHANGED AND DELETED
3	GREECE	UNCL	B4	0	0	0.00000	1					TASKI CHANGED AND DELETED
3	GREECE	UNCL	B5	0	131000	1.94379	1	GREECE	UNCL	86	17	GREEK SHPL 1986
3	GREECE	UNCL	B6	0	131000	1.94379	1					67394 281 RAISED FROM SPL
3	GREECE	UNCL	B7	0	131000	3.79512	1					34518 156 RAISED FROM SPL
3	GREECE	UNCL	B8	0	131000	3.79512	1	GREECE	UNCL	87	17	GREEK SHPL 1987
3	ITALY	UNCL	B5	0	2100000	64.16524	1					32728 705 RAISED FROM SPL
3	ITALY	UNCL	B6	0	2338000	69.47168	1					33654 381 RAISED FROM SPL
3	ITALY	UNCL	B7	0	1495000	114.20932	1					13090 711 RAISED FROM SPL
3	ITALY	UNCL	B8	0	1452000	106.86686	1					13587 1020 RAISED FROM SPL
3	ITALY	HAND	B4	0	10000	0.06897	1	SPAIN	HAND	84	0	SPAIN TASKI 145
3	ITALY	HAND	B5	0	10000	0.03745	1	SPAIN	HAND	85	0	SPAIN TASKI 267
3	ITALY	HAND	B6	0	10000	0.34483	1	SPAIN	HAND	86	0	SPAIN TASKI 29
3	ITALY	HAND	B7	0	10000	0.05650	1	SPAIN	HAND	87	0	SPAIN TASKI 177
3	ITALY	HAND	B8	0	10000	0.01808	1	SPAIN	HAND	88	0	SPAIN TASKI 553
3	ITALY	R.R.	B4	0	10000	0.06897	1	SPAIN	HAND	84	0	SPAIN TASKI 145
3	ITALY	R.R.	B5	0	50000	3.49504	1					PART-RAISED 14306
3	ITALY	R.R.	B6	0	50000	1.72414	1	SPAIN	HAND	86	0	SPAIN TASKI 29
3	ITALY	R.R.	B7	0	50000	0.28249	1	SPAIN	HAND	87	0	SPAIN TASKI 177
3	ITALY	R.R.	B8	0	50000	0.09042	1	SPAIN	HAND	88	0	SPAIN TASKI 553

CATCH				SIZE DATA (SUBSTITUTIONS)								
AR	COUNTRY	GEAR	YR TH	CATCH (KG)	R.F.	AR	COUNTRY	GR	YR TH	SAMPLE KG	REMARKS	
3	ITALY	PSFS	B0	0	1000000	2.50000	1					RE-RAISED OLD TASKI=400
3	ITALY	PSFS	B1	0	1000000	2.50000	1					RE-RAISED OLD TASKI=400
3	ITALY	PSFS	B2	0	1000000	2.50000	1					RE-RAISED OLD TASKI=400
3	ITALY	PSFS	B3	0	1000000	2.50000	1					RE-RAISED OLD TASKI=400
3	ITALY	PSFS	B4	0	1913000	1.97682	1					PART-RAISED 967716
3	ITALY	PSFS	B5	0	740000	1.64660	1					PART-RAISED 449410
3	JAPAN	LL	B8	0	236000	0.94400	1					RE-RAISED OLD TASKI=25000
3	SPAIN	TRAP	B8	0	228000	1.13433	1					333 RE-RAISED OLD TASKI=201000
3	TUNISIA	PS	B8	0	120000	0.02087	1	FRANCE	PSH	B8	0	FRENCH TASKI 5750
3	YUGOSLAVIA	PS	B8	0	59000	1.00000	1					59000 7063 <79 CM 100% SAMPLE
3	YUGOSLAVIA	PS	B7	0	990000	0.75009	1	FRANCE	PSH	B7	0	R.F.=>79CM TASKI/1319846
3	YUGOSLAVIA	PS	B7	0	17000	1.00000	1					17000 2277 <79 CM 100% SAMPLE
3	YUGOSLAVIA	PS	B7	0	739000	0.46532	1	FRANCE	PSH	B7	0	R.R.=>79CM TASKI/1588151
3	YUGOSLAVIA	PS	B1	0	14000	1.00000	1					14000 1873 <79 CM 100% SAMPLE
3	YUGOSLAVIA	PS	B1	0	362000	0.18942	1	FRANCE	PSH	B1	0	R.F.=>79CM TASKI/1911095
3	YUGOSLAVIA	PS	B2	0	45000	1.00000	1					45000 6152 <79 CM 100% SAMPLE
3	YUGOSLAVIA	PS	B2	0	441000	0.14317	1	FRANCE	PSH	B2	0	R.F.=>79CM TASKI/3080355
3	YUGOSLAVIA	PS	B3	0	46000	1.00000	1					46000 7263 <79 CM 100% SAMPLE
3	YUGOSLAVIA	PS	B3	0	1176000	0.41544	1	FRANCE	PSH	B3	0	R.F.=>79CM TASKI/2830592
3	YUGOSLAVIA	PS	B4	0	6000	1.00000	1					6000 858 <79 CM 100% SAMPLE
3	YUGOSLAVIA	PS	B4	0	749000	0.20845	1	FRANCE	PSH	B4	0	R.F.=>79CM TASKI/3593121
3	YUGOSLAVIA	PS	B5	0	15000	1.00000	1					15000 2117 <79 CM 100% SAMPLE
3	YUGOSLAVIA	PS	B5	0	1069000	0.19367	1	FRANCE	PSH	B5	0	R.F.=>79CM TASKI/5519793
3	YUGOSLAVIA	PS	B6	0	84000	1.00000	1					84000 14949 <79 CM 100% SAMPLE
3	YUGOSLAVIA	PS	B6	0	712000	0.24386	1	FRANCE	PSH	B6	0	R.F.=>79CM TASKI/2919691
3	YUGOSLAVIA	PS	B7	0	22000	1.00000	1					22000 2593 <79 CM 100% SAMPLE
3	YUGOSLAVIA	PS	B7	0	626000	0.17518	1	FRANCE	PSH	B7	0	R.F.=>79CM TASKI/3573492
3	YUGOSLAVIA	PS	B8	0	185000	1.00000	1					185000 33300 <79 CM 100% SAMPLE
3	YUGOSLAVIA	PS	B8	0	1338000	0.29268	1	FRANCE	PSH	B8	0	R.F.=>79CM TASKI/4571480

SUBSTITUTIONS AND RAISING PROPOSED FOR 1990 SCRS MEETING

AR COUNTRY	GEAR	YR	TH	CATCH (MT)	R.F.	SIZE	DATA (SUBSTITUTIONS)	GR	YR	TH	SAMPLE	REMARKS	
AR COUNTRY	GEAR	YR	TH	CATCH (MT)	R.F.	SIZE	DATA (SUBSTITUTIONS)	GR	YR	TH	SAMPLE	REMARKS	
EAST ATLANTIC													
1 POL	UNCL	88	0	0	0.0000							TASKI CHANGED FROM 2 TO 0	
1 JAP	LL	88	0	1169	1.00000							1462 MODIFIED AND RAISED BY NAT.SCI.	
1 POR	MAIN	SURF	88	0	18	1.12500						R.F.=NEW/OLD TASKI (16HT)	
1 FRAP	ICE	BB	89	0	306	0.14495	1	1	SPAIN	BB	89	0	R.F.=TASKI/TASKI
1 FRAP	ICE	GILL	89	0	31	0.01468	1	1	SPAIN	BB	89	0	R.F.=TASKI/TASKI
1 FRAP	ICE	MWTO	89	0	22	0.01042	1	1	SPAIN	BB	89	0	R.F.=TASKI/TASKI
1 FRAP	ICE	UNCL	89	0	101	0.04784	1	1	SPAIN	BB	89	0	R.F.=TASKI/TASKI
1 JAP	UNCL	LL	89	0	852	0.71172	1	1	JAPAN	LL	88	0	R.F.=TASKI/TASKI
1 MOR	CCCO	SURF	89	6	144	195.75856	1	3	SPAIN	TRAP	89	6	R.F.=TASKI/TOTAL EST. WGT
1 MOR	CCCO	TRAP	89	0	304	0.25894	1	1	SPAIN	TRAP	89	0	R.F.=TASKI/TASKI
1 POR	KADR	HAND	89	0	3	11.23596	1					267 1 R.F.=TASKI/SAMPLE REPT WGT	
1 SPA	UNCL	BB	89	0	2111	1.00000	1					5871 RAISED BY NATIONAL SCIENTISTS	
1 SPA	UNCL	LL	89	0	15	0.01278	1	1	SPAIN	TRAP	89	0	R.F.=TASKI/TASKI
1 SPA	UNCL	TRAP	89	0	1174	1.00000	1					3670 RAISED BY NATIONAL SCIENTISTS	
1 SPA	UNCL	BB	89	0	265	12.07289	1					21950 448 R.F.=TASKI/SAMPLE REPT'D WGT	
MED TERRANEAN													
3 ITAL	Y-TYRR	UNCL	87	17	1495	110.27188	1					13557 1097 R.F.=TASKI/SAMPLE EST.WGT: SIZE REV'D	
3 ITAL	Y-TYRR	UNCL	88	17	1452	113.02162	1					12847 377 R.F.=TASKI/SAMPLE EST.WGT: SIZE REV'D	
3 JAP	UNCL	LL	88	0	256	1.00000	1					374 REVISED AND RAISED BY NAT.SCI	
3 ALG	RIE	UNCL	89	0	820	8.36735	1	3	SPAIN	LL	89	0	R.F.=TASKI/TASKI
3 FRAP	ICE	SPOR	89	0	30*	0.00681	1	3	FRANCE	PSH	89	0	R.F.=TASKI/TASKI
3 FRAP	ICE	PSH	89	0	440*	1.00000	1					RAISED BY NATIONAL SCIENTY.	
3 GRE	ICE	UNCL	89	0	131*	1.33673	1	3	SPAIN	LL	89	0	R.F.=TASKI/TASKI
3 ITAL	Y-ADR	HAND	89	0	10*	0.07299	1	3	SPAIN	HAND	89	0	R.F.=TASKI/TASKI
3 ITAL	Y-ADR	PSFS	89	0	1500*	0.34060	1	3	FRANCE	PSH	89	0	R.F.=TASKI/TASKI
3 ITAL	Y-ADR	R.R.	89	0	50*	0.36496	1	3	SPAIN	HAND	89	0	R.F.=TASKI/TASKI
3 ITAL	Y-LIG	PSFS	89	0	395*	0.08969	1	3	FRANCE	PSH	89	0	R.F.=TASKI/TASKI
3 ITAL	Y-LIG	SPOR	89	0	51*	0.37226	1	3	SPAIN	HAND	89	0	R.F.=TASKI/TASKI
3 ITAL	Y-TYRR	LL	89	0	63*	0.64286	1	3	SPAIN	LL	89	0	R.F.=TASKI/TASKI
3 ITAL	Y-TYRR	PSFB	89	0	450	1.34731	1	3	ITALY-TYR	PSFB	88	0	R.F.=TASKI/TASKI
3 ITAL	Y-TYRR	TRAP	89	0	301*	0.25639	1	1	SPAIN	TRAP	89	0	R.F.=TASKI/TASKI
3 ITAL	Y-TYRR	UNCL	89	0	1452*	40.79603	1					35592 648 R.F.=TASKI/SAMPL EST.WGT:SIZE REVISED	
3 JAP	UNCL	LL	89	0	200	0.84746	1	3	JAPAN	LL	88	0	R.F.=TASKI/TASKI
3 LIB	UNCL	UNCL	89	0	84	0.07155	1	1	SPAIN	TRAP	89	0	R.F.=TASKI/TASKI
3 MAL	UNCL	UNCL	89	0	25*	0.25510	1	3	SPAIN	LL	89	0	R.F.=TASKI/TASKI
3 MOR	CCCO	TRAP	89	8	286	8.90234	1	3	SPAIN	TRAP	89	8	R.F.=TASKI/TOTAL EST. WGT (32126.4)
3 MOR	CCCO	SURF	89	6	9	12.23491	1	3	SPAIN	TRAP	89	6	R.F.=TASKI/TOTAL EST. WGT (735.6)
3 SPA	H	HAND	89	0	137	1.00000	1					557 RAISED BY NATIONAL SCIENTISTS	
3 SPA	H	LL	89	0	98	1.00000	1					465 RAISED BY NATIONAL SCIENTISTS	
3 SPA	H	SURF	89	0	717	5.23358	1	3	SPAIN	HAND	89	0	R.F.=TASKI/TASKI
3 SPA	H	TRAP	89	0	231	1.00000	1					145 RAISED BY NATIONAL SCIENTISTS	
3 TUN	SIE	PS	89	0	50	0.41667	1	3	TUNISIE	PS	88	0	R.F.=TASKI/TASKI
3 TUN	SIE	TRAP	89	0	83	0.07070	1	1	SPAIN	TRAP	89	0	R.F.=TASKI/TASKI
3 TUR	KEY	PS	89	0	910*	1.00000	1	3	TURKEY	PS	88	0	R.F.=TASKI/TASKI
3 YUG	UNCL	PS	89	0	560	0.12716	1	3	FRANCE	PSH	89	0	R.F.=TASKI/TASKI

AR COUNTRY	GEAR	YR	TH	CATCH (MT)	R.F.	SIZE	DATA (SUBSTITUTIONS)	GR	YR	TH	SAMPLE	REMARKS
AR COUNTRY	GEAR	YR	TH	CATCH (MT)	R.F.	SIZE	DATA (SUBSTITUTIONS)	GR	YR	TH	SAMPLE	REMARKS
WEST ATLANTIC												
2 DOMIN.R.	SURF	73		0	0.00000							TASKI CHANGED TO 0
2 DOMIN.R.	SURF	74		0	0.00000							TASKI CHANGED TO 0
2 DOMIN.R.	SURF	75		0	0.00000							TASKI CHANGED TO 0
2 DOMIN.R.	SURF	76		0	0.00000							TASKI CHANGED TO 0
2 DOMIN.R.	SURF	77		0	0.00000							TASKI CHANGED TO 0
2 DOMIN.R.	SURF	78		0	0.00000							TASKI CHANGED TO 0
2 DOMIN.R.	SURF	79		0	0.00000							TASKI CHANGED TO 0
2 DOMIN.R.	SURF	80		0	0.00000							TASKI CHANGED TO 0
2 DOMIN.R.	SURF	81		0	0.00000							TASKI CHANGED TO 0
2 DOMIN.R.	SURF	82		0	0.00000							TASKI CHANGED TO 0
2 OTHERS	UNCL	83		0	0.00000							TASKI CHANGED TO 0
2 URUGUAY	LL	84		9	0.04167	1	2	OTHERS	UNCL	84	0	DOMIN.R.REMOVED FROM OTH AND RECORDED
2 ARGENTINA	UNCL	85		6	0.06818	1	2	OTHERS	UNCL	85	0	DOMIN.R.REMOVED FROM OTH AND RECORDED
2 BRAS.JPN	LL	85		1	0.01136	1	2	OTHERS	UNCL	85	0	DOMIN.R.REMOVED FROM OTH AND RECORDED
2 DOMIN.R.	SURF	86		0	0.00000							TASKI CHANGED TO 0
2 DOMIN.R.	SURF	87		0	0.00000							TASKI CHANGED TO 0
2 DOMIN.R.	SURF	88		0	0.00000							TASKI CHANGED TO 0
2 USA	LL	84	0	127								RAISED FILE REVISED BY NAT.SCI
2 USA	LL	85	0	132								RAISED FILE REVISED BY NAT.SCI
2 USA	LL	86	0	138								RAISED FILE REVISED BY NAT.SCI
2 USA	LL	87	0	139								RAISED FILE REVISED BY NAT.SCI
2 USA	LL	88	0	158								RAISED FILE REVISED BY NAT.SCI
2 USA	LLD	86	0	514								RAISED FILE REVISED BY NAT.SCI
2 USA	LLD	87	0	192								RAISED FILE REVISED BY NAT.SCI
2 JAPAN	LL	88	0	1109	1.00818	1						R.F.=NEW/OLD TASKI (1100HT)
2 USA	LLD	88	0	215								RAISED FILE REVISED BY NAT.SCI
2 BRAS.JPN	LL	89	0	2	0.00881	1	2	USA	HAND	89	0	R.F.=TASKI/TASKI
2 CANADA	HAND	89	0	565**								559340 2580 100% COV. EXCEPT SEIZED (6095KG=31FISH)
2 CANADA	LL	89	0	53								50524 816 100% COV. EXPT 5 FISH OCT & 1463KG DEC
2 CANADA	TRAP	89	0	1								1107 3 100% SAMPLE COVERAGE
2 CANADA	HAND	89	0	**	0.01395	1	51	CANADA	HAND	89	0	**SEIZED. INCLD TASKI HAND RF=#/#
2 CANADA	***LLD	89	0	14	0.03510	1	51	CANADA	HAND	89	0	R.F.=REPT #/AREA 51 HAND REPT #
2 CANADA	SPHL	89	0	24	0.05440	1	51	CANADA	HAND	89	0	UNREPORTED. RF=EST.WGT/HAND WGT AR51
2 CANADA	LL	89	10	5	0.00000	1	2	CANADA	LL	89	12	R.F.=REPT.WGT/REPT.WGT
2 CANADA	LL	89	12	0	0.02824	1	2	CANADA	LL	89	0	R.F.=REPT WGT/LL SIZED WGT (OCT INCLUDE
2 CHI.TAIW	LL	89	0	3	0.00642	1	2	JAPAN	LL	89	0	R.F.=TASKI/TASKI
2 JAPAN	LL	89	0	468								1162 RAISED BY NATIONAL SCIENTISTS
2 ST.LUCIA	HAND	89	0	3*	0.01322	1	2	USA	HAND	89	0	R.F.=TASKI/TASKI
2 USA	HAND	89	0	227								RAISED BY NATIONAL SCIENTISTS
2 USA	HAND	89	0	187								RAISED BY NATIONAL SCIENTISTS
2 USA	LL	89	0	47								RAISED BY NATIONAL SCIENTISTS
2 USA	LLD	89	0	54								RAISED BY NATIONAL SCIENTISTS
2 USA	PS	89	0	385								RAISED BY NATIONAL SCIENTISTS
2 USA	R R	89	0	557								RAISED BY NATIONAL SCIENTISTS
2 USA	RRFS	89	0									RAISED BY NAT.SCI. TASKI INCD IM RR
2 USA	UNCL	89	0	2								RAISED BY NATIONAL SCIENTISTS
2 USA-GOFM	LL	89	0	78								RAISED BY NATIONAL SCIENTISTS
2 USA-GOFM	LLD	89	0	194								RAISED BY NATIONAL SCIENTISTS

* 1988 CATCH REPEATED
 ** SEIZED HANDLINE CATCH INCLUDED IN HAND. FISH ARE SIZED WITH HAND BF51 FISH
 ***HAND (TENDED LINE) DISCARDS