

Annex II. Records of fishing stations.

PROJECT STATION: 2										PROJECT STATION: 7																																			
DATE: 27/ 1/90		GEAR TYPE: BT No:1		POSITION: Lat S 2713		Long E 1500		start stop duration		Purpose code: 3		DATE: 28/ 1/90		GEAR TYPE: BT No:1		POSITION: Lat S 2855		Long E 1550		start stop duration		Purpose code: 3																							
TIME	:17:03:00	17:33:00	30	(min)	Area code	: 1	TIME	:14:04:00	14:34:00	30	(min)	Area code	: 1	LOG	:1809.40	1891.20	1.80	GearCond.code:	: 1	LOG	:1809.40	1891.20	1.80	GearCond.code:	: 1	FDEPTH:	164	166	Validity code:		FDEPTH:	172	172	Validity code:		BDEPTH:	164	166	Validity code:		BDEPTH:	172	172	Validity code:	
Towing dir: 331° Wire out: 700 m Speed: 30 kn*10										Towing dir: 340° Wire out: 700 m Speed: 35 kn*10																																			
Sorted: 24 Kg					Total catch: 473.10					CATCH/HOUR: 946.20					Sorted: 88 Kg					Total catch: 205.55					CATCH/HOUR: 411.10																				
SPECIES										SPECIES																																			
		CATCH/HOUR		% OF TOT. C		SAMP. NO.				CATCH/HOUR		% OF TOT. C		SAMP. NO.				CATCH/HOUR		% OF TOT. C		SAMP. NO.																							
		weight	numbers							weight	numbers							weight	numbers																										
Merluccius capensis		904.40	8842	95.58		1		Merluccius capensis		183.00	2308	44.51		14				Brana brana		92.00	52	22.38		12																					
Chelidonichthys capensis		41.80	190	4.42				Lampanyctodes hectoris		55.00	25142	13.38						Chelidonichthys capensis		28.00	80	6.81																							
Sufflogobius bibarbatus		0.38	76	0.04				Sepia australis		15.00	840	3.65						Thyrsites atun		11.00	10	2.68		13																					
Lepidopus caudatus		0.00	2					Todarodes sagittatus		6.00	92	1.46						Octopus vulgaris		5.00	2	1.36																							
Sepiella sp		0.00	2					Helicolenus dactylopterus		5.00	340	1.22						Scomber japonicus		3.00	2	0.88																							
Austroglossus microlepis		0.00	2					Etrumeus whiteheadi		2.50	30	0.61						Paracallionymus costatus		2.00	150	0.49																							
Total		946.58		100.04				Lepidopus caudatus		1.00	20	0.24						Lophius upsicephalus		1.00	2	0.24																							
								Genypterus capensis		0.40	2	0.10						Merluccius capensis male		0.00				16																					
								Merluccius capensis female		0.00								Merluccius capensis female		0.00				15																					
								Total		411.10		100.01						Total		411.10		100.01																							

PROJECT STATION: 3										PROJECT STATION: 8																																			
DATE: 28/ 1/90		GEAR TYPE: BT No:1		POSITION: Lat S 2840		Long E 1619		start stop duration		Purpose code: 3		DATE: 28/ 1/90		GEAR TYPE: BT No:1		POSITION: Lat S 2902		Long E 1539		start stop duration		Purpose code: 3																							
TIME	:06:56:00	07:26:00	30	(min)	Area code	: 1	TIME	:18:28:00	18:58:00	30	(min)	Area code	: 1	LOG	:1907.10	1908.60	1.50	GearCond.code:	: 1	LOG	:1907.10	1908.60	1.50	GearCond.code:	: 1	FDEPTH:	27	31	Validity code:		FDEPTH:	180	179	Validity code:		BDEPTH:	27	31	Validity code:		BDEPTH:	180	179	Validity code:	
Towing dir: 310° Wire out: 200 m Speed: 18 kn*10										Towing dir: 340° Wire out: 800 m Speed: 32 kh*10																																			
Sorted: Kg					Total catch:					CATCH/HOUR:					Sorted: 32 Kg					Total catch: 169.60					CATCH/HOUR: 339.20																				
SPECIES										SPECIES																																			
		CATCH/HOUR		% OF TOT. C		SAMP. NO.				CATCH/HOUR		% OF TOT. C		SAMP. NO.				CATCH/HOUR		% OF TOT. C		SAMP. NO.																							
		weight	numbers							weight	numbers							weight	numbers																										
Merluccius capensis		0.00	2					Merluccius capensis		142.80	906	42.10		20				Merluccius capensis		142.80	906	42.10		20																					
Trachurus capensis		0.00	18					Brana brana		58.60	36	17.28		17				Brana brana		58.60	36	17.28		17																					
Total								Etrumeus whiteheadi		56.00	740	16.51		18				Etrumeus whiteheadi		56.00	740	16.51		18																					
								Sepia australis		40.00	2600	11.79						Sepia australis		40.00	2600	11.79																							
								MYCTOPHIDAE		22.50	2670	6.63						MYCTOPHIDAE		22.50	2670	6.63																							
								Todarodes sagittatus		7.10	68	2.09						Todarodes sagittatus		7.10	68	2.09																							
								Thyrsites atun		4.00	4	1.14						Thyrsites atun		4.00	4	1.14		19																					
								Helicolenus dactylopterus		3.80	400	1.03						Helicolenus dactylopterus		3.80	400	1.03																							
								Lophius upsicephalus		1.80	4	0.53						Lophius upsicephalus		1.80	4	0.53																							
								Paracallionymus costatus		1.50	130	0.44						Paracallionymus costatus		1.50	130	0.44																							
								Holohalaelurus regani		0.80	6	0.24						Holohalaelurus regani		0.80	6	0.24																							
								Cynoglossus capensis		0.20	2	0.06						Cynoglossus capensis		0.20	2	0.06																							
								Loligo vulgaris		0.20	2	0.06						Loligo vulgaris		0.20	2	0.06																							
								Merluccius capensis female		0.00								Merluccius capensis female		0.00				22																					
								Merluccius capensis male		0.00								Merluccius capensis male		0.00				21																					
								Total		339.00		99.94						Total		339.00		99.94																							

PROJECT STATION: 4										PROJECT STATION: 9																																			
DATE: 28/ 1/90		GEAR TYPE: BT No:1		POSITION: Lat S 2841		Long E 1615		start stop duration		Purpose code: 3		DATE: 20/ 1/90		GEAR TYPE: BT No:1		POSITION: Lat S 2905		Long E 1531		start stop duration		Purpose code: 3																							
TIME	:08:10:00	08:40:00	30	(min)	Area code	: 1	TIME	:18:26:00	19:06:00	30	(min)	Area code	: 1	LOG	:1924.90	1926.50	1.60	GearCond.code:	: 1	LOG	:1924.90	1926.50	1.60	GearCond.code:	: 1	FDEPTH:	77	74	Validity code:		FDEPTH:	180	183	Validity code:		BDEPTH:	77	74	Validity code:		BDEPTH:	180	183	Validity code:	
Towing dir: 330° Wire out: 300 m Speed: 32 kn*10										Towing dir: 330° Wire out: 800 m Speed: 32 kn*10																																			
Sorted: 34 Kg					Total catch: 4024.00					CATCH/HOUR: 8048.00					Sorted: 29 Kg					Total catch: 139.70					CATCH/HOUR: 279.40																				
SPECIES										SPECIES																																			
		CATCH/HOUR		% OF TOT. C		SAMP. NO.				CATCH/HOUR		% OF TOT. C		SAMP. NO.				CATCH/HOUR		% OF TOT. C		SAMP. NO.																							
		weight	numbers							weight	numbers							weight	numbers																										
Merluccius capensis		8036.00	8412	99.85		2		Merluccius capensis		75.60	954	27.06		27				Merluccius capensis		75.60	954	27.06		27																					
Thyrsites atun		12.00	8	0.15		3		Merluccius capensis		51.80	636	18.54		26				Merluccius capensis		51.80	636	18.54		26																					
Trachurus capensis		0.00	2					Helicolenus dactylopterus		46.20	444	16.54						Helicolenus dactylopterus		46.20	444	16.54																							
Total		8048.00		100.00				Brana brana		43.00	28	15.39		23				Brana brana		43.00	28	15.39		23																					
								Sepia australis		31.20	2112	11.17						Sepia australis		31.20	2112	11.17																							
								Chelidonichthys capensis		13.80	30	4.94						Chelidonichthys capensis		13.80	30	4.94																							
								Sardinops ocellata		7.00	30	2.51						Sardinops ocellata		7.00	30	2.51																							
								Todarodes sagittatus		3.00	30	1.07						Todarodes sagittatus		3.00	30	1.07																							
								Paracallionymus costatus		1.80	192	0.64						Paracallionymus costatus		1.80	192	0.64																							
								Thyrsites atun		1.80	2	0.64						Thyrsites atun		1.80	2	0.64																							
								Squalus megalops		1.60	2	0.57						Squalus megalops		1.60	2	0.57																							
								Holohalaelurus regani		0.80	4	0.29						Holohalaelurus regani		0.80	4	0.29																							
								Cynoglossus capensis		0.60	36	0.21						Cynoglossus capensis		0.60	36	0.21																							
								Lepidopus caudatus		0.60	6	0.21						Lepidopus caudatus		0.60	6	0.21																							
								Loligo vulgaris		0.40	2	0.14						Loligo vulgaris		0.40	2	0.14																							
								Notopogon macrolepis		0.20	2	0.07						Notopogon macrolepis		0.20	2	0.07																							
								Merluccius capensis female		0.00								Merluccius capensis female		0.00				25																					
								Merluccius capensis male		0.00								Merluccius capensis male		0.00				24																					
								Total		279.40		99.99						Total		279.40		99.99																							

PROJECT STATION: 5										PROJECT STATION: 10																																			
DATE: 28/ 1/90		GEAR TYPE: BT No:1		POSITION: Lat S 2844		Long E 1610		start stop duration		Purpose code: 3		DATE: 29/ 1/90		GEAR TYPE: BT No:1		POSITION: Lat S 2929		Long E 1437		start stop duration		Purpose code: 3																							
TIME	:09:39:00	09:50:00	11	(min)	Area code	: 1	TIME	:01:44:00	02:44:00	60	(min)	Area code	: 1	LOG	:1989.90	1992.50	2.60	GearCond.code:	: 3	LOG	:1989.90	1992.50	2.60	GearCond.code:	: 3	FDEPTH:	119	112	Validity code:		FDEPTH:	400	400	Validity code:		BDEPTH:	119	112	Validity code:		BDEPTH:	400	400	Validity code:	
Towing dir: 330° Wire out: 500 m Speed: 32 kn*10										Towing dir: 340° Wire out: 1400 m Speed: 30 kn*10																																			
Sorted: 25 Kg					Total catch: 267.90					CATCH/HOUR: 1461.27					Sorted: 25 Kg					Total catch: 71.15					CATCH/HOUR: 71.15																				
SPECIES										SPECIES																																			
		CATCH/HOUR		% OF TOT. C		SAMP. NO.				CATCH/HOUR		% OF TOT. C		SAMP. NO.				CATCH/HOUR		% OF TOT. C		SAMP. NO.																							
		weight	numbers							weight	numbers							weight	numbers																										
Merluccius capensis		1314.55	15055	89.96		4		Merluccius capensis		14.20	43	19.96		30			Merluccius paradoxus		50.00	236666	70.27																								
Callorhynchus capensis		63.82	27	4.37		7		Callinectes sp		3.00	90	4.22					Callinectes sp		3.00	90	4.22																								
Chelidonichthys capensis		43.64	109	2.99				Conoderichthys fasciatus		2.50	135	3.51					Conoderichthys fasciatus		2.50	135	3.51																								
MYCTOPHIDAE		13.64	2891	0.93				Physiculus capensis		0.50	15	0.70					Physiculus capensis		0.50	15	0.70																								
Genypterus capensis		10.91	33	0.75				Helicolenus dactylopterus		0.50	10	0.70					Helicolenus dactylopterus		0.50	10	0.70																								
Thyrsites atun		10.36	11	0.71		8		Paracallionym																																					

PROJECT STATION: 11
 DATE: 29/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2913 Long E 1425
 start stop duration
 TIME : 06:17:00 07:17:00 60 (min) Purpose code: 3
 LOG : 2009.50 2012.80 3.30 Area code : 1
 FDEPTH: 300 304 GearCond.code: 8
 BDEPTH: 300 304 Validity code: 9
 Towing dir: 345° Wire out: 1100 m Speed: 33 kn*10

Sorted: 36 Kg Total catch: 142.90 CATCH/HOUR: 142.90

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP. NO.
Merluccius capensis	98.00	653	68.58	33
Malacocephalus laevis	14.50	225	10.15	32
Cynoglossus zanzibarensis	5.50	255	5.25	
Genypterus capensis	7.10	5	4.97	31
Helicolenus dactylopterus	4.80	165	3.15	
Holohalaelurus regani	2.50	10	1.75	
Todarodes sagittatus	2.50	20	1.75	
Thyrsites atun	2.30	1	1.61	
Paracallionymus costatus	2.00	200	1.40	
Rossia sp	1.00	50	0.70	
Lepidopus caudatus	0.50	5	0.35	
Todaropsis eblanae	0.50	10	0.35	
Merluccius capensis male	0.00			35
Merluccius capensis female	0.00			34
Total	142.90		100.01	

PROJECT STATION: 12
 DATE: 29/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2904 Long E 1426
 start stop duration
 TIME : 09:31:00 10:17:00 46 (min) Purpose code: 3
 LOG : 2032.80 2035.40 2.60 Area code : 1
 FDEPTH: 420 416 GearCond.code: 8
 BDEPTH: 420 416 Validity code: 9
 Towing dir: 360° Wire out: 1400 m Speed: 32 kn*10

Sorted: 40 Kg Total catch: 168.74 CATCH/HOUR: 220.10

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP. NO.
Merluccius paradoxus	174.52	574	79.29	38
Malacocephalus laevis	10.96	689	4.98	
Epigonus pandionis	8.61	728	3.91	
Genypterus capensis	5.87	3	2.67	
Lophius upsicephalus	5.74	1	2.61	
Lepidopus caudatus	3.26	3	1.48	39
Raja caudaspinosa	2.48	3	1.13	
Coelorrhinus fasciatus	2.35	329	1.07	
Myxine capensis	2.35	55	1.07	
Rossia sp	1.57	63	0.71	
Bassonago albescens	0.91	1	0.41	
Centrolophus niger	0.78	1	0.35	
Helicolenus dactylopterus	0.39	21	0.19	
Hoplostethus mediterraneus	0.08	8	0.04	
Todaropsis eblanae	0.08	8	0.04	
Paracallionymus costatus	0.08	47	0.04	
Cynoglossus zanzibarensis	0.08	8	0.04	
Merluccius paradoxus female	0.00			37
Merluccius paradoxus male	0.00			36
Total	220.11		100.02	

PROJECT STATION: 13
 DATE: 29/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2903 Long E 1447
 start stop duration
 TIME : 14:15:00 14:45:00 30 (min) Purpose code: 3
 LOG : 2062.60 2064.50 1.90 Area code : 1
 FDEPTH: 207 219 GearCond.code: 8
 BDEPTH: 207 219 Validity code: 9
 Towing dir: 260° Wire out: 850 m Speed: 36 kn*10

Sorted: 52 Kg Total catch: 99.60 CATCH/HOUR: 199.20

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP. NO.
Merluccius capensis	55.80	54	33.07	44
Zeus faber	29.40	162	14.76	40
Helicolenus dactylopterus	28.00	154	14.06	42
Trachurus capensis	26.00	162	13.05	41
Loligo vulgaris	14.00	84	7.03	
Sepia australis	11.20	302	5.62	
Ennelichthys nitidus	9.80	204	4.92	43
Callorhynchus capensis	4.40	2	2.21	
Chelidonichthys capensis	2.00	4	1.00	
Lepidopus caudatus	2.00	2	1.00	
Holohalaelurus regani	1.80	4	0.90	
Todaropsis eblanae	1.40	22	0.70	
Todarodes sagittatus	1.40	8	0.70	
Genypterus capensis	1.40	2	0.70	
Cynoglossus zanzibarensis	0.60	6	0.30	
Merluccius capensis female	0.00			46
Merluccius capensis male	0.00			45
Total	199.20		99.90	

PROJECT STATION: 14
 DATE: 29/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2857 Long E 1502
 start stop duration
 TIME : 15:48:00 16:18:00 30 (min) Purpose code: 3
 LOG : 2063.80 2065.70 1.90 Area code : 1
 FDEPTH: 177 178 GearCond.code: 8
 BDEPTH: 177 178 Validity code: 9
 Towing dir: 330° Wire out: 800 m Speed: 38 kn*10

Sorted: 137 Kg Total catch: 191.74 CATCH/HOUR: 383.48

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP. NO.
Merluccius capensis	206.20	230	53.77	47
Chelidonichthys capensis	83.40	204	21.75	
Ennelichthys nitidus	26.40	1266	6.88	
Squalus megalops	25.80	78	6.73	
Sepia australis	18.00	1494	4.69	
Callorhynchus capensis	11.00	4	2.87	
Chelidonichthys queketti	6.60	30	1.72	
Holohalaelurus regani	1.80	6	0.67	
Sardinops ocellata	1.20	6	0.31	
Todaropsis eblanae	0.68	156	0.18	
Congloporus spinifer	0.60	2	0.16	
Cynoglossus zanzibarensis	0.60	12	0.16	
Zeus faber	0.60	12	0.16	
Todarodes sagittatus	0.60	12	0.16	
Merluccius capensis male	0.00			49
Merluccius capensis female	0.00			48
Total	383.48		100.01	

PROJECT STATION: 15
 DATE: 29/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2849 Long E 1515
 start stop duration
 TIME : 17:48:00 18:18:00 30 (min) Purpose code: 3
 LOG : 2099.20 2100.60 1.40 Area code : 1
 FDEPTH: 161 158 GearCond.code: 8
 BDEPTH: 161 158 Validity code: 9
 Towing dir: 60° Wire out: 700 m Speed: 28 kn*10

Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP. NO.
Merluccius capensis	235.00	1750	68.51	51
Sepia australis	42.00	2112	12.19	
Scorpaen japonicus	11.80	6	3.43	
Otopus vulgaris	11.00	2	3.19	
Genypterus capensis	8.00	32	2.32	50
Paracallionymus costatus	6.00	420	1.74	
Chelidonichthys capensis	6.00	10	1.74	
Raja clavata	5.20	2	1.51	
Cynoglossus zanzibarensis	5.00	110	1.45	
Trachurus capensis	4.60	6	1.34	
Helicolenus dactylopterus	4.00	90	1.16	
Squalus megalops	3.00	10	0.87	
Holohalaelurus regani	0.80	4	0.23	
Solenocera africana	0.50	110	0.15	
Lophius upsicephalus	0.50	30	0.15	
Todaropsis eblanae	0.10	10	0.03	
Merluccius capensis female	0.00			53
Merluccius capensis male	0.00			52
Total	344.50		100.01	

PROJECT STATION: 16
 DATE: 29/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2843 Long E 1525
 start stop duration
 TIME : 20:03:00 20:33:00 30 (min) Purpose code: 3
 LOG : 2113.50 2115.20 1.70 Area code : 1
 FDEPTH: 186 186 GearCond.code: 8
 BDEPTH: 186 186 Validity code: 9
 Towing dir: 260° Wire out: 700 m Speed: 34 kn*10

Sorted: 51 Kg Total catch: 172.25 CATCH/HOUR: 344.50

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP. NO.
Merluccius capensis	235.00	1750	68.51	51
Sepia australis	42.00	2112	12.19	
Scorpaen japonicus	11.80	6	3.43	
Otopus vulgaris	11.00	2	3.19	
Genypterus capensis	8.00	32	2.32	50
Paracallionymus costatus	6.00	420	1.74	
Chelidonichthys capensis	6.00	10	1.74	
Raja clavata	5.20	2	1.51	
Cynoglossus zanzibarensis	5.00	110	1.45	
Trachurus capensis	4.60	6	1.34	
Helicolenus dactylopterus	4.00	90	1.16	
Squalus megalops	3.00	10	0.87	
Holohalaelurus regani	0.80	4	0.23	
Solenocera africana	0.50	110	0.15	
Lophius upsicephalus	0.50	30	0.15	
Todaropsis eblanae	0.10	10	0.03	
Merluccius capensis female	0.00			53
Merluccius capensis male	0.00			52
Total	344.50		100.01	

PROJECT STATION: 17
 DATE: 29/1/90 GEAR TYPE: PT No:4 POSITION: Lat 2833 Long 1549
 start stop duration
 TIME : 23:55:00 00:25:00 30 (min) Purpose code: 1
 LOG : 2144.40 2145.70 1.30 Area code : 1
 FDEPTH: 5 5 GearCond.code: 8
 BDEPTH: 123 127 Validity code: 9
 Towing dir: 240° Wire out: 200 m Speed: 30 kn*10

Sorted: 22 Kg Total catch: 71.00 CATCH/HOUR: 142.00

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP. NO.
MYCTOPHIDAE	60.00	184000	56.34	
Sepia australis	19.20	960	13.52	
Thyrsites atun	17.00	18	11.97	
Brama brama	15.60	8	10.99	
Merluccius capensis	4.60	46	3.24	
Scorpaen japonicus	4.00	2	2.82	
Lepidopus caudatus	1.60	320	1.13	
Total	142.00		100.01	

PROJECT STATION: 18
 DATE: 30/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2827 Long E 1558
 start stop duration
 TIME : 06:22:00 06:52:00 30 (min) Purpose code: 3
 LOG : 2157.40 2159.00 1.60 Area code : 1
 FDEPTH: 102 98 GearCond.code: 8
 BDEPTH: 102 98 Validity code: 9
 Towing dir: 360° Wire out: 450 m Speed: 30 kn*10

Sorted: 95 Kg Total catch: 1321.90 CATCH/HOUR: 2643.80

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP. NO.
Merluccius capensis	224.00	17280	83.74	54
Chelidonichthys capensis	319.60	1440	12.09	55
Callorhynchus capensis	108.00	134	4.09	
Janus lalandii	1.40	10	0.05	
Austroglossus microlepis	0.80	2	0.03	
Total	2643.80		100.00	

PROJECT STATION: 19
 DATE: 30/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2201 Long E 2817
 start stop duration
 TIME : 11:10:00 11:40:00 30 (min) Purpose code: 3
 LOG : 2200.90 2202.40 1.50 Area code : 1
 FDEPTH: 144 140 GearCond.code: 8
 BDEPTH: 144 140 Validity code: 9
 Towing dir: 330° Wire out: 600 m Speed: 50 kn*10

Sorted: 112 Kg Total catch: 166.88 CATCH/HOUR: 333.76

SPECIES	CATCH/HOUR weight	numbers	% OF TOT. C	SAMP. NO.
Chelidonichthys capensis	54.80	330	25.41	
Merluccius capensis	76.80	262	23.01	55
Callorhynchus capensis	74.60	4	22.35	
Squalus megalops	28.70	70	8.60	
Callorhynchus capensis	18.20	14	5.45	
Raja clavata	18.00	12	5.39	
Muettellus palumbes	10.80	6	3.24	
Trachurus capensis	8.40	14	2.52	
Itirusus whiteheadi	5.60	64	1.68	
Loligo vulgaris	3.50	22	1.05	
Sardinops ocellata	1.40	8	0.42	
Helicolenus dactylopterus	0.90	14	0.27	
Zeus faber	0.90	22	0.27	
Todaropsis eblanae	0.80	22	0.24	
Sepia australis	0.36	28	0.11	
Merluccius capensis female	0.00			58
Merluccius capensis male	0.00			57
Total	333.76		100.01	

PROJECT STATION: 20
 DATE: 30/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2825 Long E 1508
 start stop duration
 TIME : 13:51:00 14:21:00 30 (min) Purpose code: 3
 LOG : 2222.30 2223.80 1.50 Area code : 1
 FDEPTH: 175 175 GearCond.code: 3
 BDEPTH: 175 175 Validity code:
 Towing dir: 350° Wire out: 700 m Speed: 31 kn*10
 Sorted: 76 Kg Total catch: 171.00 CATCH/HOUR: 342.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis	162.40	472	47.49	59
Galeorhinus galeus	83.40	6	24.39	
Callorhynchus capensis	31.00	20	9.06	
Lophius upsicephalus	10.80	2	3.16	
Chelidonichthys capensis	9.60	30	2.81	
Mustelus palumbus	9.40	6	2.73	
Helicolenus dactylopterus	8.40	156	2.46	
Sepia australis	6.00	414	1.75	
Emmelichthys nitidus	4.80	6	1.40	
Etrumeus whiteheadi	4.20	60	1.23	
Zeus faber	3.60	96	1.05	
Trachurus capensis	2.40	6	0.76	
Cynoglossus zanzibarensis	1.60	4	0.47	
Molohalaelurus regani	1.20	8	0.35	
Squalus megalops	1.20	8	0.35	
Todaropsis eblanæ	0.18	12	0.05	
Congloporus spinifer	0.18	6	0.05	
Loligo vulgaris	0.12	6	0.04	
Lepidopus caudatus	0.06	6	0.02	
Paracallionymus costatus	0.06	6	0.02	
Merluccius capensis female	0.00			61
Merluccius capensis male	0.00			60
Total	342.00		100.01	

PROJECT STATION: 21
 DATE: 30/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2830 Long E 1453
 start stop duration
 TIME : 16:20:00 16:50:00 30 (min) Purpose code: 3
 LOG : 2242.00 2243.60 1.60 Area code : 1
 FDEPTH: 181 181 GearCond.code: 3
 BDEPTH: 181 181 Validity code:
 Towing dir: 5° Wire out: 800 m Speed: 33 kn*10
 Sorted: 133 Kg Total catch: 294.23 CATCH/HOUR: 588.46

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lepidopus caudatus	320.00	3120	54.38	
Trachurus capensis	134.00	344	22.77	66
Merluccius capensis	87.80	86	14.92	62
Chelidonichthys capensis	14.40	48	2.43	
Sepia australis	9.60	1072	1.63	
Loligo vulgaris	8.00	48	1.36	
Merluccius capensis juveniles	6.40	1152	1.09	65
Todarodes sagittatus	3.20	16	0.54	
Thyrates atun	3.00	2	0.51	
Todaropsis eblanæ	0.80	64	0.14	
Paracallionymus costatus	0.60	112	0.10	
Helicolenus dactylopterus	0.50	64	0.08	
Emmelichthys nitidus	0.16	16	0.03	
Merluccius capensis female	0.00			64
Merluccius capensis male	0.00			63
Total	588.46		100.00	

PROJECT STATION: 22
 DATE: 30/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2842 Long E 1439
 start stop duration
 TIME : 19:20:00 19:50:00 30 (min) Purpose code: 3
 LOG : 2269.00 2270.50 1.50 Area code : 1
 FDEPTH: 173 174 GearCond.code: 3
 BDEPTH: 173 174 Validity code:
 Towing dir: 360° Wire out: 750 m Speed: 30 kn*10
 Sorted: 129 Kg Total catch: 362.29 CATCH/HOUR: 724.58

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Emmelichthys nitidus	352.00	23228	48.58	72
Merluccius capensis	135.00	98	18.63	70
Zeus faber	104.00	672	14.35	71
Lophius upsicephalus	46.00	10	6.35	
Loligo vulgaris	24.00	128	3.31	
Scyllorhinus capensis	24.00	48	3.31	
Thyrates atun	18.20	18	2.51	67
Scomber japonicus	12.20	12	1.68	
Trachurus capensis	4.00	16	0.55	
Lepidopus caudatus	3.20	16	0.44	
Sepia australis	2.00	96	0.28	
Congloporus spinifer	0.90	2	0.12	
Todaropsis eblanæ	0.32	16	0.04	
Merluccius capensis female	0.00			69
Merluccius capensis male	0.00			68
Total	724.58		100.15	

PROJECT STATION: 23
 DATE: 30/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2843 Long E 1426
 start stop duration
 TIME : 21:44:00 22:44:00 60 (min) Purpose code: 3
 LOG : 2286.80 2289.90 3.10 Area code : 1
 FDEPTH: 331 334 GearCond.code: 8
 BDEPTH: 331 334 Validity code: 3
 Towing dir: 350° Wire out: 1050 m Speed: 31 kn*10
 Sorted: 79 Kg Total catch: 175.90 CATCH/HOUR: 175.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Helicolenus dactylopterus	49.00	195	27.86	
Caelorhynchus fasciatus	37.50	961	21.32	
Gonypterus capensis	30.40	11	17.28	73
Merluccius capensis	26.10	68	14.84	74
Epigonus pandionis	25.00	570	14.21	
Lophius upsicephalus	3.80	1	2.16	
Cynoglossus zanzibarensis	1.50	25	0.85	
Malacocephalus laevis	1.50	25	0.85	
Shrimps, small, non comm.	1.00	210	0.57	
Tripterygion leucostictus	0.10	5	0.06	
Merluccius capensis female	0.00			76
Merluccius capensis male	0.00			75
Total	175.90		100.00	

PROJECT STATION: 24
 DATE: 31/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2825 Long E 1436
 start stop duration
 TIME : 09:20:00 09:50:00 30 (min) Purpose code: 3
 LOG : 2342.80 2344.30 1.50 Area code : 1
 FDEPTH: 166 167 GearCond.code: 3
 BDEPTH: 166 167 Validity code:
 Towing dir: 360° Wire out: 700 m Speed: 30 kn*10
 Sorted: 84 Kg Total catch: 108.25 CATCH/HOUR: 216.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius capensis	109.40	104	50.53	77
Loligo vulgaris	23.20	132	10.72	
Emmelichthys nitidus	14.00	442	6.47	
Helicolenus dactylopterus	12.00	48	5.54	
Trachurus capensis	10.80	52	4.99	
Chelidonichthys capensis	9.60	6	4.43	
Raja caudaspinosa	9.40	2	4.34	
Thyrates atun	6.60	8	3.05	
Zeus faber	6.00	20	2.77	
Chelidonichthys queketti	4.80	20	2.22	
Molohalaelurus regani	4.60	12	2.12	
Sepia australis	3.20	132	1.48	
Todaropsis eblanæ	1.20	12	0.55	
Todarodes sagittatus	0.80	4	0.37	
Scyllorhinus capensis	0.70	2	0.32	
Lepidopus caudatus	0.20	4	0.09	
Merluccius capensis female	0.00			79
Merluccius capensis male	0.00			78
Total	216.50		99.99	

PROJECT STATION: 25
 DATE: 31/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2814 Long E 1428
 start stop duration
 TIME : 12:05:00 12:35:00 30 (min) Purpose code: 3
 LOG : 2363.70 2365.20 1.50 Area code : 1
 FDEPTH: 197 198 GearCond.code: 3
 BDEPTH: 197 198 Validity code:
 Towing dir: 360° Wire out: 750 m Speed: 30 kn*10
 Sorted: 29 Kg Total catch: 95.10 CATCH/HOUR: 190.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lepidopus caudatus	129.60	198	68.14	
Merluccius capensis	30.00	48	15.77	61
Todarodes sagittatus	16.00	16	8.41	
Trachurus capensis	4.60	20	2.42	60
Todaropsis eblanæ	3.20	32	1.68	
Etrumeus whiteheadi	3.00	26	1.58	
Thyrates atun	3.00	2	1.58	
Zeus faber	0.40	6	0.21	
Emmelichthys nitidus	0.20	2	0.11	
Helicolenus dactylopterus	0.02	2	0.01	
Merluccius capensis female	0.00			63
Merluccius capensis male	0.00			62
Total	190.02		99.31	

PROJECT STATION: 26
 DATE: 31/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2827 Long E 1448
 start stop duration
 TIME : 14:27:00 14:57:00 30 (min) Purpose code: 3
 LOG : 2383.20 2384.70 1.50 Area code : 1
 FDEPTH: 187 189 GearCond.code: 3
 BDEPTH: 187 189 Validity code:
 Towing dir: 345° Wire out: 750 m Speed: 33 kn*10
 Sorted: 25 Kg Total catch: 95.86 CATCH/HOUR: 191.72

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lepidopus caudatus	126.00	882	65.72	
Todarodes sagittatus	27.00	180	14.08	
Merluccius capensis male	22.20	34	11.58	64
Etrumeus whiteheadi	7.00	100	3.65	
Trachurus capensis	5.00	36	2.61	
Thyrates atun	2.40	2	1.25	
Lophius upsicephalus	1.40	2	0.73	
Todaropsis eblanæ	0.36	54	0.19	
Paracallionymus costatus	0.18	36	0.09	
Sepia australis	0.18	54	0.09	
Merluccius capensis female	0.00			66
Merluccius capensis male	0.00			65
Total	191.72		99.99	

PROJECT STATION: 27
 DATE: 31/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2842 Long E 1431
 start stop duration
 TIME : 18:06:00 18:36:00 30 (min) Purpose code: 3
 LOG : 2415.30 2417.20 1.90 Area code : 1
 FDEPTH: 190 190 GearCond.code: 3
 BDEPTH: 190 190 Validity code:
 Towing dir: 330° Wire out: 750 m Speed: 38 kn*10
 Sorted: 146 Kg Total catch: 1533.35 CATCH/HOUR: 3066.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Zeus faber	1430.00	4888	46.63	90
Emmelichthys nitidus	1222.00	4524	39.85	91
Merluccius capensis	170.00	132	5.57	89
Lepidopus caudatus	130.00	208	4.24	
Trachurus capensis	98.80	156	3.22	
Congloporus spinifer	5.00	8	0.16	
Polyprion americanus	4.30	2	0.14	
Chelidonichthys queketti	2.60	52	0.08	
Scyllorhinus capensis	2.40	4	0.08	
Todaropsis eblanæ	0.80	52	0.03	
Merluccius capensis male	0.00			88
Merluccius capensis female	0.00			87
Total	3066.70		100.00	

PROJECT STATION: 28
 DATE: 3/1/90 GEAR TYPE: BT No:1 POSITION: Lat S 2641 Long E 1427
 start stop duration
 TIME :20:08:00 20:38:00 30 (min) Purpose code: 3
 LOG :2427.10 2428.50 1.40 Area code : 1
 FDEPTH: 295 305 GearCond.code:
 BDEPTH: 295 305 Validity code:
 Towing dir: 360° Wire out: 1100 m Speed: 28 kn*10
 Sorted: 80 Kg Total catch: 80.12 CATCH/HOUR: 160.24

PROJECT STATION: 33
 DATE: 1/2/90 GEAR TYPE: PT No:4 POSITION: Lat S 2732 Long E 1515
 start stop duration
 TIME :23:01:00 23:31:00 30 (min) Purpose code: 1
 LOG :2637.90 2638.90 1.00 Area code : 1
 FDEPTH: 5 5 GearCond.code:
 BDEPTH: 122 119 Validity code:
 Towing dir: 40° Wire out: 200 m Speed: 20 kn*10
 Sorted: 70 Kg Total catch: 656.21 CATCH/HOUR: 1312.42

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Merluccius paradoxus	134.60	210	84.00	94
Epigonus pandionis	14.40	330	8.99	
Helicolenus dactylopterus	5.20	24	2.00	
Zeus faber	3.00	8	1.87	
Holohlaelurus regani	2.20	10	1.37	
Squalus megalops	1.80	2	1.12	
Malacocephalus laevis	1.00	10	0.62	
Coelorhynchus fasciatus	0.04	2	0.02	
MYXINIDAE	0.00	4		
Merluccius paradoxus male	0.00			93
Merluccius paradoxus female	0.00			92
Total	160.24		99.99	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Etrumeus whiteheadi	1184.40	14900	90.25	112
Galeorhinus galeus	81.40	4	8.20	
Sardinops ocellata	25.70	210	1.92	
Thyrssites atun	21.00	126	1.60	
Sepia australis	0.42	84	0.03	
Total	1312.42		100.00	

PROJECT STATION: 29
 DATE: 1/2/90 GEAR TYPE: BT No:1 POSITION: Lat S 2804 Long E 1500
 start stop duration
 TIME :08:23:00 09:06:00 33 (min) Purpose code: 3
 LOG :2517.80 2519.80 1.80 Area code : 1
 FDEPTH: 184 187 GearCond.code:
 BDEPTH: 184 187 Validity code:
 Towing dir: 350° Wire out: 750 m Speed: 35 kn*10
 Sorted: 121 Kg Total catch: 446.90 CATCH/HOUR: 812.55

PROJECT STATION: 34
 DATE: 2/2/90 GEAR TYPE: BT No:1 POSITION: Lat S 2754 Long E 1447
 start stop duration
 TIME :06:54:00 07:54:00 60 (min) Purpose code: 3
 LOG :2688.30 2690.90 2.60 Area code : 1
 FDEPTH: 310 295 GearCond.code:
 BDEPTH: 310 295 Validity code:
 Towing dir: 50° Wire out: 1000 m Speed: 32 kn*10
 Sorted: Kg Total catch: 145.65 CATCH/HOUR: 145.65

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trachurus capensis	220.18	1056	35.71	101
Emmelichthys nitidus	280.00	458	34.46	100
Merluccius capensis juveniles	102.09	916	12.69	99
Merluccius capensis	76.91	102	9.47	57
Thyrssites atun	40.00	35	4.92	98
Sufflogobius bibarbatus	8.91	1800	1.10	
Etrumeus whiteheadi	8.91	89	1.10	
Scomber japonicus	5.09	4	0.62	
Helicolenus dactylopterus	2.55	89	0.31	
Merluccius capensis female	0.00			96
Merluccius capensis male	0.00			95
Total	815.64		100.39	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Merluccius paradoxus	99.00	314	67.97	113
Todarodes sagittatus	11.90	23	8.17	
Gerypteris capensis	11.00	7	7.55	
Helicolenus dactylopterus	9.50	71	6.52	
Coelorhynchus fasciatus	5.00	52	3.43	
MYCTOPHIDAE	4.32	778	2.97	
Squalus megalops	1.90	2	1.30	
Sepia australis	1.08	32	0.74	
Lepidopus caudatus	0.80	9	0.56	
Emmelichthys nitidus	0.40	1	0.27	
Apristurus sp.	0.30	2	0.21	
Notacanthus sexspinis	0.20	3	0.14	
Trachurus capensis	0.15	1	0.10	
Squilla sp.	0.05	11	0.03	
Epigonus pandionis	0.05	21	0.03	
Merluccius paradoxus female	0.00			115
Merluccius paradoxus male	0.00			114
Total	145.65		99.96	

PROJECT STATION: 30
 DATE: 1/2/90 GEAR TYPE: BT No:1 POSITION: Lat S 2801 Long E 1532
 start stop duration
 TIME :13:22:00 13:52:00 30 (min) Purpose code: 3
 LOG :2559.20 2560.70 1.50 Area code : 1
 FDEPTH: 86 85 GearCond.code:
 BDEPTH: 86 85 Validity code:
 Towing dir: 350° Wire out: 400 m Speed: 30 kn*10
 Sorted: 22 Kg Total catch: 44.10 CATCH/HOUR: 88.20

PROJECT STATION: 35
 DATE: 2/2/90 GEAR TYPE: BT No:1 POSITION: Lat S 2742 Long E 1446
 start stop duration
 TIME :10:06:00 10:44:00 38 (min) Purpose code: 3
 LOG :2702.40 2704.70 2.30 Area code : 1
 FDEPTH: 370 374 GearCond.code:
 BDEPTH: 370 374 Validity code:
 Towing dir: 150° Wire out: 1250 m Speed: 36 kn*10
 Sorted: 50 Kg Total catch: 756.42 CATCH/HOUR: 1194.35

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Krill	43.20		49.99	
Merluccius capensis	35.60	388	44.90	102
MYXINIDAE	5.40	1566	6.12	
Merluccius capensis female	0.00			104
Merluccius capensis male	0.00			103
Total	88.20		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Merluccius paradoxus	1017.79	7503	85.22	118
Krill	114.83	17545	9.60	
MYCTOPHIDAE	31.95	20239	2.68	
Todarodes sagittatus	9.95	16	0.63	
Octopus vulgaris	7.11	2	0.60	
Gerypteris capensis	6.16	2	0.52	
Brama brama	3.63	2	0.30	
Epigonus pandionis	2.78	174	0.23	
Paracallionyx costatus	0.35	35	0.03	
Total	1194.36		100.01	

PROJECT STATION: 31
 DATE: 1/2/90 GEAR TYPE: BT No:1 POSITION: Lat S 2744 Long E 1520
 start stop duration
 TIME :17:18:00 17:48:00 30 (min) Purpose code: 3
 LOG :2591.10 2592.80 1.70 Area code : 1
 FDEPTH: 124 129 GearCond.code:
 BDEPTH: 124 129 Validity code:
 Towing dir: 198° Wire out: 500 m Speed: 33 kn*10
 Sorted: 42 Kg Total catch: 42.65 CATCH/HOUR: 85.30

PROJECT STATION: 36
 DATE: 2/2/90 GEAR TYPE: BT No:1 POSITION: Lat S 2738 Long E 1458
 start stop duration
 TIME :12:55:00 13:25:00 30 (min) Purpose code: 3
 LOG :2722.70 2724.30 1.60 Area code : 1
 FDEPTH: 235 243 GearCond.code:
 BDEPTH: 235 243 Validity code:
 Towing dir: 20° Wire out: 800 m Speed: 28 kn*10
 Sorted: 63 Kg Total catch: 444.00 CATCH/HOUR: 889.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Merluccius capensis	46.80	442	54.87	106
Galeorhinus galeus	32.20	2	37.75	
Loligo vulgaris	4.20	20	4.92	
Chelidonichthys capensis	0.80	2	0.94	
Auetrogllossus microlepis	0.60	2	0.70	
Etrumeus whiteheadi	0.60	8	0.70	
Sufflogobius bibarbatus	0.10	18	0.12	
Merluccius capensis female	0.00			108
Merluccius capensis male	0.00			107
Total	85.30		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Merluccius capensis	631.60	5404	92.65	119
Todarodes sagittatus	19.40	30	2.18	
Brama brama	19.00	12	2.14	
Lepidopus caudatus	6.60	44	0.74	
Chelidonichthys capensis	4.40	8	0.50	
Mustellus pulchellus	4.00	2	0.45	
Callorhynchus capensis	3.00	2	0.34	
Merluccius capensis female	0.00			121
Merluccius capensis male	0.00			120
Total	688.00		100.00	

PROJECT STATION: 32
 DATE: 1/2/90 GEAR TYPE: BT No:1 POSITION: Lat 2731 Long 1520
 start stop duration
 TIME :20:15:00 20:45:00 30 (min) Purpose code: 3
 LOG :2618.00 2619.40 1.40 Area code : 1
 FDEPTH: 90 99 GearCond.code:
 BDEPTH: 90 99 Validity code:
 Towing dir: 340° Wire out: 450 m Speed: 28 kn*10
 Sorted: 35 Kg Total catch: 54.76 CATCH/HOUR: 109.52

PROJECT STATION: 37
 DATE: 2/2/90 GEAR TYPE: BT No:1 POSITION: Lat S 2727 Long E 1502
 start stop duration
 TIME :15:08:00 15:28:00 30 (min) Purpose code: 3
 LOG :2739.60 2741.40 1.80 Area code : 1
 FDEPTH: 184 184 GearCond.code:
 BDEPTH: 184 184 Validity code:
 Towing dir: 25° Wire out: 650 m Speed: 35 kn*10
 Sorted: 33 Kg Total catch: 885.60 CATCH/HOUR: 1771.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Merluccius capensis	64.00	432	58.44	109
Galeorhinus galeus	30.60	2	27.94	
Callorhynchus capensis	3.40	2	3.10	
Trachurus capensis	3.20	40	2.92	
Chelidonichthys capensis	3.20	40	2.92	
MYCTOPHIDAE	2.60	780	2.37	
Thyrssites atun	2.00	4	1.83	
Sepia australis	0.40	16	0.37	
Gerypteris capensis	0.08	4	0.07	
Sufflogobius bibarbatus	0.04	4	0.04	
Merluccius capensis female	0.00			111
Merluccius capensis male	0.00			110
Total	109.52		100.00	

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Merluccius capensis	1736.00	11036	98.01	
Todarodes sagittatus	24.80	62	1.40	
Chelidonichthys capensis	10.40	28	0.59	
Merluccius capensis male	0.00			122
Total	1771.20		100.00	