

ANNEX IV. Records of fishing stations.

PROJECT STATION: 1
 DATE: 4/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 757
 start stop duration Long E 1254
 TIME :17:16:00 17:46:00 30 (min) Purpose code: 3
 LOG :4013.00 4013.90 0.90 Area code : 2
 FDEPTH: 83 83 GearCond.code: 2
 BDEPTH: 83 83 Validity code:
 Towing dir: 337° Wire out: 400 m Speed: 32 kn*10
 Sorted: 63 Kg Total catch: 566.35 CATCH/HOUR: 1132.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trachurus trecae	1085.40	31114	95.82	1
Pagellus bellottii	28.40	218	2.51	
Dentex angolensis	21.60	198	1.91	
Mustelus mustelus	4.00	2	0.35	
Sarda sarda	1.80	2	0.16	
Fistularia petimba	1.00	2	0.09	
Illex coindetii	0.90	36	0.08	
Alloteuthis africana	0.00	288		
Boops boops	0.00	18		
Total	1143.10		100.92	

PROJECT STATION: 2
 DATE: 5/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 506
 start stop duration Long E 1158
 TIME :10:12:00 10:42:00 30 (min) Purpose code: 3
 LOG :4196.10 4197.70 1.60 Area code : 2
 FDEPTH: 20 20 GearCond.code: 2
 BDEPTH: 20 20 Validity code:
 Towing dir: 150° Wire out: 100 m Speed: 30 kn*10
 Sorted: 187 Kg Total catch: 187.65 CATCH/HOUR: 375.30

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pseudotolithus typus	71.00	46	18.92	3
Arius parkii	38.00	70	10.13	
Galeoides decadactylus	37.20	186	9.91	
Drepane africana	30.00	112	7.99	
Chaetodipterus lippei	28.00	72	7.46	
Pomadasys jubelini	24.40	6	6.50	
Pseudotolithus senegalensis	21.00	32	5.60	2
Epinephelus aeneus	15.90	2	4.24	
Stromateus fiatola	15.80	26	4.21	
Selene dorsalis	13.40	116	3.57	
Paralichthys regius	12.00	34	3.20	
Ilisha africana	8.80	734	2.34	
Pomadasys incisus	7.60	40	2.03	
Plectorhynchus mediterraneus	7.20	6	1.92	
Pseudotolithus brachygnathus	7.00	6	1.87	
Pseudotolithus epiperucus	6.60	24	1.76	
Paragaleus pectoralis	6.00	4	1.60	
Dentex gibbosus	4.80	4	1.28	
Chloroscombrus chrysurus	4.00	50	1.07	
Sardinella maderensis	3.71	20	0.99	
Brachydeuterus auritus	3.60	88	0.96	
Dasyatis margarita	2.40	4	0.64	
Pentanemus quinquarius	2.40	40	0.64	
Dentex barnardi	2.00	4	0.53	
Trichiurus lepturus	1.40	76	0.37	
Lutjanus goreensis	1.20	2	0.32	
Parapenaeopsis atlantica	0.80	90	0.21	
Dentex canariensis	0.60	2	0.16	
Scyllarides herklotsii	0.60	2	0.16	
Alectis alexandrinus	0.60	4	0.16	
Penaeus notialis	0.40	12	0.11	
Pteroscion pelli	0.30	8	0.08	
Chaetodon hoefleri	0.20	2	0.05	
Sphyræna guachancho	0.00	2		
Pseudupeneus prayensis	0.00	2		
Total	378.91		100.98	

PROJECT STATION: 3
 DATE: 5/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 513
 start stop duration Long E 1202
 TIME :10:43:00 11:00:00 17 (min) Purpose code: 3
 LOG :4205.30 4206.20 0.90 Area code : 2
 FDEPTH: 13 13 GearCond.code: 2
 BDEPTH: 13 13 Validity code:
 Towing dir: 14° Wire out: 100 m Speed: 32 kn*10
 Sorted: 12 Kg Total catch: 11.95 CATCH/HOUR: 42.18

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Cynoglossus browni	8.82	92	20.91	
Brachydeuterus auritus	7.06	229	16.74	
Ilisha africana	4.94	173	11.71	
Pomadasys jubelini	3.53	14	8.37	
Galeoides decadactylus	3.53	49	8.37	
Chloroscombrus chrysurus	2.82	39	6.69	
Pseudotolithus typus	2.12	32	5.03	
Stromateus fiatola	1.76	11	4.17	
Dasyatis margarita	1.76	4	4.17	
Selene dorsalis	1.76	32	4.17	
Pentanemus quinquarius	1.76	49	4.17	
HETERENCHELYIDAE	0.71	21	1.68	
Torpedo nobiliana	0.71	4	1.68	
Penaeus notialis	0.35	11	0.83	
Pteroscion pelli	0.35	21	0.83	
Parapenaeopsis atlantica	0.18	35	0.43	
Syacium micrurum	0.00	4		
Dicologlossa cuneata	0.00	4		
Arius parkii	0.00	4		
Sphyræna guachancho	0.00	4		
Chloroscombrus chrysurus	0.00	46		
Total	42.16		99.95	

PROJECT STATION: 4
 DATE: 5/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 515
 start stop duration Long E 1156
 TIME :11:59:00 12:30:00 31 (min) Purpose code: 3
 LOG :4213.20 4214.70 1.50 Area code : 2
 FDEPTH: 31 33 GearCond.code: 2
 BDEPTH: 31 33 Validity code:
 Towing dir: 150° Wire out: 150 m Speed: 34 kn*10
 Sorted: 46 Kg Total catch: 167.31 CATCH/HOUR: 323.83

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chloroscombrus chrysurus	162.58	3523	50.21	5
Brachydeuterus auritus	63.87	1405	19.72	
Sphyræna guachancho	36.58	120	11.30	4
Galeoides decadactylus	14.52	110	4.48	
Rhizoprionodon acutus	10.65	4	3.29	
Pomadasys peroteti	7.55	12	2.93	
Drepane africana	6.97	17	2.15	
Paragaleus pectoralis	5.81	2	1.79	
Pomadasys incisus	3.48	6	1.07	
Selene dorsalis	2.90	46	0.90	
Ilisha africana	2.90	110	0.90	
Pseudotolithus senegalensis	1.74	6	0.54	
Pteroscion pelli	1.16	17	0.36	
Dasyatis margarita	0.77	4	0.24	
Pagellus bellottii	0.77	6	0.24	
Trichiurus lepturus	0.58	35	0.18	
Dentex canariensis	0.58	2	0.18	
Penaeus notialis	0.29	12	0.09	
Sardinella maderensis	0.12	6	0.04	
Total	323.82		100.01	

PROJECT STATION: 5
 DATE: 5/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 518
 start stop duration Long E 1149
 TIME :13:34:00 14:05:00 31 (min) Purpose code: 3
 LOG :4223.20 4224.60 1.40 Area code : 2
 FDEPTH: 52 56 GearCond.code: 2
 BDEPTH: 52 56 Validity code:
 Towing dir: 310° Wire out: 200 m Speed: 32 kn*10
 Sorted: 78 Kg Total catch: 77.50 CATCH/HOUR: 150.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pagellus bellottii	74.13	356	49.42	6
Dentex barnardi	18.00	37	12.00	7
Trachurus trecae	13.35	170	8.90	9
Umbrina canariensis	12.58	39	8.39	8
Epinephelus aeneus	9.29	2	6.19	
Paragaleus pectoralis	9.10	2	6.07	
Chloroscombrus chrysurus	2.90	33	1.93	
Argyrosomus hololepidotus	2.71	2	1.81	
Sparus caeruleostictus	1.74	2	1.13	
Stromateus fiatola	1.55	2	1.06	
Selene dorsalis	1.55	21	1.03	
Sphyræna sphyraena	1.35	12	0.90	
Decapterus punctatus	0.58	37	0.39	
Lagocephalus laevigatus	0.39	2	0.26	
Sphyræna guachancho	0.39	2	0.26	
Brachydeuterus auritus	0.19	4	0.13	
Chaetodon hoefleri	0.19	2	0.13	
Total	149.99		100.00	

PROJECT STATION: 6
 DATE: 5/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 516
 start stop duration Long E 1141
 TIME :15:10:00 15:27:00 17 (min) Purpose code: 3
 LOG :4233.80 4234.50 0.70 Area code : 2
 FDEPTH: 96 98 GearCond.code: 2
 BDEPTH: 96 98 Validity code:
 Towing dir: 237° Wire out: 450 m Speed: 35 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
N O C A T C H	0.00			
Total				

PROJECT STATION: 7
 DATE: 5/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 521
 start stop duration Long E 1134
 TIME :17:33:00 18:05:00 32 (min) Purpose code: 3
 LOG :4242.30 4244.10 1.80 Area code : 2
 FDEPTH: 216 248 GearCond.code:
 BDEPTH: 216 248 Validity code:
 Towing dir: 165° Wire out: 800 m Speed: 34 kn*10

Sorted: 31 Kg Total catch: 154.20 CATCH/HOUR: 289.13

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Miracorvina angolensis	59.91	737	20.72	
Synagrops microlepis	54.00	5761	18.68	
Trichiurus lepturus	52.31	516	18.09	
Pterothrissus bellocci	44.72	330	15.47	
Parapenaeus longirostris	27.00	4320	9.34	
Centrophorus uyato	12.38	2	4.28	
Merluccius polli	6.75	203	2.33	
Hexanchus griseus	6.19	2	2.14	
Squatina oculata	6.00	2	2.08	
Solenocera africana	4.22	296	1.46	
Illex coindetii	4.22	26	1.46	
Diaphus dumerili	4.22	2828	1.46	
Sphyræna sphyraena	2.53	9	0.88	
Chlorophthalmus atlanticus	2.53	229	0.88	
Promethichthys prometheus	1.69	9	0.06	
MORIDAE	0.17	9	0.06	
Brosmiculus imberbis *	0.17	9	0.06	
Peristedion cataphractum	0.09	9	0.03	
Total	289.10		100.00	

PROJECT STATION: 8
 DATE: 5/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 524
 start stop duration Long E 1134
 TIME :18:47:00 19:20:00 33 (min) Purpose code: 3
 LOG :4246.40 4247.80 1.40 Area code : 2
 FDEPTH: 290 312 GearCond.code:
 BDEPTH: 290 312 Validity code:
 Towing dir: 180° Wire out:1000 m Speed: 28 kn*10

Sorted: 36 Kg Total catch: 289.06 CATCH/HOUR: 525.56

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pterothrissus bellocci	283.64	1822	53.97	
Centrophorus uyato	132.18	22	25.15	
Nematocarcinus africanus	36.00	158400	6.85	
Merluccius polli	29.45	207	5.60	
Trichiurus lepturus	24.00	33	4.57	
Illex coindetii	4.36	33	0.83	
Chlorophthalmus atlanticus	4.36	131	0.83	
Helicolenus dactylopterus	2.18	11	0.41	
Peristedion cataphractum	2.18	65	0.41	
Solenocera africana	2.18	65	0.41	
PORTUNIDAE	1.09	11	0.21	
Laemonema laureysi	1.09	11	0.21	
Parapenaeus longirostris	1.09	44	0.21	
Dasyatis margarita	0.55	11	0.10	
Brosmiculus imberbis *	0.55	44	0.10	
Lophius vaillanti	0.55	33	0.10	
Plesionika martia	0.11	11	0.02	
Total	525.56		99.98	

PROJECT STATION: 9
 DATE: 5/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 528
 start stop duration Long E 1130
 TIME :20:16:00 20:46:00 30 (min) Purpose code: 3
 LOG :4252.00 4253.70 1.70 Area code : 2
 FDEPTH: 402 407 GearCond.code:
 BDEPTH: 402 407 Validity code:
 Towing dir: 180° Wire out:1200 m Speed: 30 kn*10

Sorted: 28 Kg Total catch: 76.88 CATCH/HOUR: 153.76

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius polli	69.50	180	45.20	18
Deania profundorum	13.00	20	8.45	
Laemonema laureysi	12.50	434	8.13	
MORIDAE	12.00	56	7.80	
Centrophorus granulosus	8.80	2	5.72	
Nematocarcinus africanus	7.50	1144	4.88	
Plesionenaeus edwardsianus	6.00	144	3.90	
Aristeus varidens	5.00	576	3.25	
Epigonus telescopus	4.50	64	2.93	
Pterothrissus bellocci	3.50	30	2.28	
Galeus polli	2.50	110	1.63	
Brosmiculus imberbis *	2.50	60	1.63	
Trichiurus lepturus	2.50	74	1.63	
Illex coindetii	1.00	4	0.65	
Stereomastis sculpta	1.00	70	0.65	
Todaropsis eblanae	0.74	4	0.48	
Halosaurus ovenii	0.50	24	0.33	
Helicolenus dactylopterus	0.24	10	0.16	
Chaunax pictus	0.24	34	0.16	
Lophius vaillanti	0.24	20	0.16	
Total	153.76		100.02	

PROJECT STATION: 10
 DATE: 6/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 538
 start stop duration Long E 1201
 TIME :06:08:00 06:43:00 35 (min) Purpose code: 3
 LOG :4326.20 4327.80 1.70 Area code : 2
 FDEPTH: 25 30 GearCond.code:
 BDEPTH: 25 30 Validity code:
 Towing dir: 230° Wire out: 100 m Speed: 30 kn*10

Sorted: Kg Total catch: 30.31 CATCH/HOUR: 51.96

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chloroscombrus chrysurus	44.57	789	85.78	11
Sphyræna guanchancho	1.09	3	3.64	
Illisha africana	1.71	75	2.29	12
Sardinella maderensis	1.37	36	2.64	10
Dasyatis margarita	1.20	5	2.31	
Stromateus fiatola	0.34	3	0.65	
Brachydeuterus auritus	0.34	19	0.65	
Scelene dorsalis	0.34	7	0.65	
Lophius vaillanti	0.17	21	0.33	
Helicolenus dactylopterus	0.02	2	0.04	

PROJECT STATION: 11
 DATE: 6/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 540
 start stop duration Long E 1158
 TIME :07:30:00 08:00:00 30 (min) Purpose code: 3
 LOG :4332.60 4334.10 1.70 Area code : 2
 FDEPTH: 36 39 GearCond.code:
 BDEPTH: 36 39 Validity code:
 Towing dir: 340° Wire out: 150 m Speed: 32 kn*10

Sorted: 6 Kg Total catch: 5.71 CATCH/HOUR: 11.42

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella maderensis	5.70	56	49.91	19
Sphyræna guanchancho	5.50	4	48.16	
Chloroscombrus chrysurus	0.20	2	1.75	
Lophius vaillanti	0.02	4	0.18	
Total	11.42		100.00	

PROJECT STATION: 12
 DATE: 6/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 545
 start stop duration Long E 1151
 TIME :09:08:00 09:38:00 30 (min) Purpose code: 3
 LOG :4343.10 4344.40 1.50 Area code : 2
 FDEPTH: 57 60 GearCond.code:
 BDEPTH: 57 60 Validity code:
 Towing dir: 250° Wire out: 300 m Speed: 33 kn*10

Sorted: 25 Kg Total catch: 116.80 CATCH/HOUR: 233.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Brachydeuterus auritus	98.40	1928	42.12	16
Trichiurus lepturus	56.00	960	23.97	
Pteroscion pelli	24.00	448	10.27	14
Pseudotolithus senegalensis	22.00	184	9.42	15
Selene dorsalis	9.20	56	3.94	
Illisha africana	6.80	96	2.91	
Dasyatis sp.	4.00	2	1.71	
Pseudotolithus typus	3.30	2	1.41	
Cynoglossus canariensis	3.00	14	1.28	17
Cynoponticus ferox	3.00	4	1.28	
Sardinella maderensis	1.60	8	0.68	
Trachurus trecae	0.60	4	0.26	
Sphyræna guanchancho	0.60	2	0.26	
Dicologlossa cuneata	0.40	6	0.17	
Sepia bertheloti	0.40	120	0.17	
Penaeus notialis	0.20	20	0.09	
Helicolenus dactylopterus	0.02	2	0.01	
Parapenaeopsis atlantica	0.02	14	0.01	
PENAEIDAE	0.00	2		
Lophius vaillanti	0.00	24		
Total	233.54		99.96	

PROJECT STATION: 13
 DATE: 6/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 548
 start stop duration Long E 1143
 TIME :10:32:00 11:02:00 30 (min) Purpose code: 3
 LOG :4351.70 4352.90 1.70 Area code : 2
 FDEPTH: 90 98 GearCond.code:
 BDEPTH: 90 98 Validity code:
 Towing dir: 255° Wire out: 450 m Speed: 31 kn*10

Sorted: 27 Kg Total catch: 87.30 CATCH/HOUR: 174.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	147.90	1374	84.71	
Pentheroscion mbizi	10.20	174	5.84	
Mustelus mustelus	7.00	2	4.01	
Brachydeuterus auritus	2.40	30	1.37	
Squatina oculata	2.00	2	1.15	
Dentex angolensis	1.40	6	0.80	
Miracorvina angolensis	1.20	12	0.69	
Uranoscopus cadenati	1.20	12	0.69	
Todarodes sagittatus	0.90	2	0.52	
Trachurus trecae	0.30	12	0.17	
Parapenaeopsis atlantica	0.12	66	0.07	
Total	174.62		100.02	

PROJECT STATION: 14
 DATE: 6/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 549
 start stop duration Long E 1139
 TIME :11:58:00 12:28:00 30 (min) Purpose code: 3
 LOG :4359.50 4360.90 1.46 Area code : 2
 FDEPTH: 116 119 GearCond.code:
 BDEPTH: 116 119 Validity code:
 Towing dir: 20° Wire out: 600 m Speed: 32 kn*10

Sorted: 81 Kg Total catch: 81.47 CATCH/HOUR: 162.94

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Umbina canariensis	49.20	139	30.20	19
Miracorvina angolensis	28.80	100	17.68	20
Trichiurus lepturus	23.40	38	14.36	
Epinephelus aeneus	23.00	4	14.12	
Dentex gibbosus	11.80	2	7.24	
Pterothrissus bellocci	7.80	56	4.78	
Spicara alta	6.40	56	3.93	
Synagrops microlepis	5.00	362	3.07	
Sparus pagrus africanus	2.40	2	1.47	
Dentex angolensis	1.80	6	1.10	
Octopus vulgaris	1.00	2	0.61	
Trichiurus lepturus	1.00	34	0.61	
Trachurus trecae	0.60	4	0.37	
Illex coindetii	0.20	8	0.12	
Parapenaeus longirostris	0.10	30	0.06	
Uranoscopus polli	0.10	12	0.06	
Trigla lyra	0.10	2	0.06	
Zeus faber	0.10	2	0.06	
Saurida brasiliensis	0.10	32	0.06	
Todaropsis eblanae	0.04	4	0.02	
Dibranchius atlanticus	0.00	2		
Boops boops	0.00	2		
Pontinus kuhlii	0.00	2		
Total	162.94		99.99	

PROJECT STATION: 15
 DATE: 6/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 556 Long E 1152
 start stop duration
 TIME :15:35:00 16:06:00 31 (min) Purpose code: 3
 LOG :4388.60 4390.70 1.60 Area code : 2
 FDEPTH: 60 54 GearCond.code:
 BDEPTH: 60 54 Validity code:
 Towing dir: 50° Wire out: 300 m Speed: 32 kn*10
 Sorted: 22 Kg Total catch: 272.20 CATCH/HOUR: 526.84

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pteroscion peli	170.71	2880	32.40	
Pentheroscion mbizi	114.97	1783	21.82	
Pseudotolithus senegalensis	54.19	135	10.29	22
Trichiurus lepturus	43.55	105	8.27	
Trichiurus lepturus	31.95	1916	5.95	
Mustelus mustelus	27.10	12	5.14	
Cynoglossus canariensis	18.19	72	3.45	
Brachydeuterus auritus	17.42	331	3.31	
Cynoponticus ferox	11.61	12	2.20	
Pseudotolithus typus	11.61	8	2.20	21
Parapenaeopsis atlantica	6.97	1916	1.32	
Brotula barbata	4.65	8	0.88	
Umbrina canariensis	3.87	14	0.73	
Raja miraletus	3.48	10	0.66	
Arius parkii	3.10	2	0.59	
Sepia officinalis hierredda	1.16	2	0.22	
Grammolites gruvelli	0.87	17	0.17	
Miracorvina angolensis	0.77	2	0.15	
Dentex barnardi	0.58	4	0.11	
Dentex angolensis	0.39	2	0.07	
Pegusa lascaris	0.19	4	0.04	
Ilisha africana	0.10	2	0.02	
Penaeus notialis	0.06	4	0.01	
Total	526.89		100.00	

PROJECT STATION: 16
 DATE: 6/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 551 Long E 1200
 start stop duration
 TIME :17:10:00 17:40:00 30 (min) Purpose code: 3
 LOG :4399.50 4401.10 1.60 Area code : 2
 FDEPTH: 30 27 GearCond.code:
 BDEPTH: 30 27 Validity code:
 Towing dir: 50° Wire out: 150 m Speed: 30 kn*10
 Sorted: 32 Kg Total catch: 170.25 CATCH/HOUR: 340.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Pseudotolithus typus	78.00	370	22.91	25
Pseudotolithus senegalensis	65.50	340	19.24	23
Shrimps, small, non comm.	37.00		10.87	
Pentaneus quinquarius	28.00	370	8.22	
Pteroscion peli	22.00	410	6.46	
Trichiurus lepturus	20.00	970	5.87	
Ilisha africana	19.00	370	5.58	
Arius parkii	17.00	30	4.99	
Brachydeuterus auritus	17.00	450	4.99	
Cynoglossus canariensis	15.40	54	4.52	24
Chloroscombrus chrysurus	10.00	220	2.94	
Dasyatis margarita	4.00	10	1.17	
Selene dorsalis	4.00	40	1.17	
Parapenaeopsis atlantica	2.00	560	0.59	
Portunus validus	1.20	10	0.35	
Dicologlossa cuneata	0.20	10	0.06	
Cynoglossus browni	0.20	2	0.06	
Total	340.50		99.99	

PROJECT STATION: 17
 DATE: 7/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 619 Long E 1140
 start stop duration
 TIME :06:12:00 06:42:00 30 (min) Purpose code: 3
 LOG :4489.00 4490.90 1.70 Area code : 2
 FDEPTH: 117 112 GearCond.code:
 BDEPTH: 117 112 Validity code:
 Towing dir: 90° Wire out: 550 m Speed: 31 kn*10
 Sorted: 57 Kg Total catch: 56.86 CATCH/HOUR: 113.72

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Dentex congoensis	52.00	308	45.73	27
Dentex angolensis	18.00	132	15.83	26
Epinephelus aeneus	13.00	2	11.43	
Mustelus mustelus	8.80	4	7.74	
Trachurus trecae	5.40	140	4.75	28
Illex coindetii	3.20	144	2.81	29
Dentex gibbosus	3.20	2	2.81	
Zeus faber	2.20	4	1.93	
Selene dorsalis	1.80	6	1.58	
Trichiurus lepturus	1.40	4	1.23	
Torpedo torpedo	1.40	2	1.23	
Ariomma bondi	1.20	26	1.06	
Fistularia petimba	1.20	2	1.06	
Pagellus bellottii	0.80	8	0.70	
Chloroscombrus chrysurus	0.04	4	0.04	
Boops boops	0.04	4	0.04	
Spicara alta	0.02	2	0.02	
Saurida brasiliensis	0.00	4		
Total	113.70		99.99	

PROJECT STATION: 18
 DATE: 7/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 619 Long E 1145
 start stop duration
 TIME :07:27:00 07:57:00 30 (min) Purpose code: 3
 LOG :4495.20 4497.00 1.70 Area code : 2
 FDEPTH: 105 103 GearCond.code:
 BDEPTH: 105 103 Validity code:
 Towing dir: 90° Wire out: 550 m Speed: 30 kn*10
 Sorted: 34 Kg Total catch: 34.34 CATCH/HOUR: 68.68

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Dentex congoensis	22.80	194	33.20	31
Dentex angolensis	20.00	96	29.12	32
Ariomma bondi	14.00	280	20.38	
Trachurus trecae	4.00	126	5.82	30
Epinephelus aeneus	3.60	2	5.24	
Illex coindetii	3.00	178	4.37	33
Dentex canariensis	0.60	2	0.87	
Fistularia petimba	0.60	2	0.87	
Boops boops	0.04	2	0.06	
Trichiurus lepturus	0.04	2	0.06	
Saurida brasiliensis	0.00	2		
Total	68.68		99.99	

PROJECT STATION: 19
 DATE: 7/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 619 Long E 1153
 start stop duration
 TIME :08:55:00 09:25:00 30 (min) Purpose code: 3
 LOG :4503.30 4504.80 1.50 Area code : 2
 FDEPTH: 86 81 GearCond.code:
 BDEPTH: 86 81 Validity code:
 Towing dir: 90° Wire out: 450 m Speed: 30 kn*10
 Sorted: 34 Kg Total catch: 34.21 CATCH/HOUR: 68.42

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trichiurus lepturus	28.00	52	40.92	
Umbrina canariensis	16.80	48	24.55	
Dentex angolensis	3.60	12	5.26	
C E P H A L O P O D A	3.40	1504	4.97	
Priacanthus arenatus	3.20	8	4.68	
Trachurus trecae	2.60	92	3.90	
Dentex congoensis	2.40	32	3.51	
Zeus faber	2.20	4	3.22	
Torpedo torpedo	1.30	2	1.90	
Octopus vulgaris	1.20	2	1.75	
Saurida brasiliensis	1.20	304	1.75	
Pagellus bellottii	1.10	16	1.61	
Raja miraletus	0.50	2	0.73	
Illex coindetii	0.30	8	0.44	
Dentex barnardi	0.20	4	0.29	
Fistularia petimba	0.20	2	0.29	
Ariomma bondi	0.20	8	0.29	
Spicara alta	0.02	2	0.03	
Citharus linguatula	0.00	2		
Total	68.42		99.99	

PROJECT STATION: 20
 DATE: 7/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 619 Long E 1201
 start stop duration
 TIME :10:25:00 10:55:00 30 (min) Purpose code: 3
 LOG :4512.90 4514.70 1.70 Area code : 2
 FDEPTH: 63 67 GearCond.code:
 BDEPTH: 63 67 Validity code:
 Towing dir: 270° Wire out: 300 m Speed: 30 kn*10
 Sorted: 33 Kg Total catch: 132.24 CATCH/HOUR: 264.48

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Brachydeuterus auritus	160.00	1728	60.50	36
Pagellus bellottii	31.20	280	11.80	34
Trachurus trecae	28.00	360	10.59	35
Trichiurus lepturus	24.80	120	9.38	
Octopus vulgaris	8.40	8	3.18	
Dentex angolensis	4.80	16	1.81	
C E P H A L O P O D A	3.20	904	1.21	
Dentex congoensis	2.40	16	0.91	
Umbrina canariensis	1.60	8	0.60	
Illex coindetii	0.08	8	0.03	
Saurida brasiliensis	0.00	24		
Total	264.48		100.01	

PROJECT STATION: 21
 DATE: 7/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 624
 start stop duration Long E 1206
 TIME :12:16:00 12:46:00 30 (min) Purpose code: 3
 LOG :4529.30 4530.90 1.60 Area code : 2
 FDEPTH: 43 37 GearCond.code:
 BDEPTH: 43 37 Validity code:
 Towing dir: 90° Wire out: 150 m Speed: 32 km*10
 Sorted: 31 Kg Total catch: 30.82 CATCH/HOUR: 61.64

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Stromateus fiatola	30.00	30	48.67	
Trichiurus lepturus	16.00	42	25.96	
Lagocephalus laevigatus	5.00	14	8.11	
Selene dorsalis	4.60	14	7.46	
Sparus caeruleostictus	2.60	6	4.22	
Fistularia petimba	2.00	12	3.24	
Pagellus bellottii	1.40	4	2.27	
Decapterus punctatus	0.04	2	0.06	
Alloteuthis africana	0.00	6		
Total	61.64		99.99	

PROJECT STATION: 22
 DATE: 7/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 625
 start stop duration Long E 1221
 TIME :15:26:00 15:53:00 28 (min) Purpose code: 3
 LOG :4546.20 4547.70 1.26 Area code : 2
 FDEPTH: 11 11 GearCond.code:
 BDEPTH: 11 11 Validity code:
 Towing dir: 160° Wire out: 50 m Speed: 27 km*10
 Sorted: 24 Kg Total catch: 122.50 CATCH/HOUR: 262.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trichiurus lepturus	44.25	1770	16.86	
Ilisha africana	40.50	1776	15.43	
Galeoides decadactylus	24.75	270	9.43	
Pteroscion pelli	21.75	1044	8.29	
Brachydeuterus auritus	21.00	474	8.00	
Pseudotolithus typus	14.57	26	5.55	40
Polydactylus quadrifilis	13.50	339	5.14	
Stromateus fiatola	13.50	28	5.14	
Sphyræna guanchancho	11.79	34	4.49	38
Selene dorsalis	11.36	114	4.33	
Pseudotolithus senegalensis	7.50	17	2.86	39
Dentex barrardi	6.43	21	2.45	37
Rhizoprionodon acutus	5.36	4	2.04	
Arius parkii	5.36	4	2.04	
Scomberomorus tritor	4.29	4	1.63	
Rhinobatos albomaculatus	4.07	2	1.55	
Hemicarax bicolor	3.00	45	1.14	
Pomadasys jubelini	1.71	4	0.65	
Chloroscombrus chrysurus	1.50	15	0.57	
Cynoglossus canariensis	1.29	4	0.49	
Parapenaeopsis atlantica	1.07	411	0.41	
Elops lacerta	1.07	2	0.41	
Lagocephalus laevigatus	1.07	2	0.41	
Rhinobatos rhinobatos	0.64	2	0.24	
Sardinella maderensis	0.43	120	0.16	
Sardinella maderensis	0.43	2	0.16	
Fistularia petimba	0.21	2	0.08	
Pegusa lascaris	0.11	2	0.04	
Total	262.51		99.99	

PROJECT STATION: 23
 DATE: 7/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 628
 start stop duration Long E 1205
 TIME :17:45:00 18:15:00 30 (min) Purpose code: 3
 LOG :4564.70 4566.10 1.50 Area code : 2
 FDEPTH: 50 65 GearCond.code:
 BDEPTH: 50 65 Validity code:
 Towing dir: 265° Wire out: 150 m Speed: 32 km*10
 Sorted: 1 Kg Total catch: 0.53 CATCH/HOUR: 1.06

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sphyræna guanchancho	0.60	2	56.60	
Trichiurus lepturus	0.40	4	37.74	
Brachydeuterus auritus	0.06	2	5.66	
Total	1.06		100.00	

PROJECT STATION: 24
 DATE: 8/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 641
 start stop duration Long E 1228
 TIME :06:18:00 06:42:00 24 (min) Purpose code: 3
 LOG :4657.30 4658.50 1.20 Area code : 2
 FDEPTH: 8 7 GearCond.code:
 BDEPTH: 8 7 Validity code:
 Towing dir: 150° Wire out: 100 m Speed: 27 km*10
 Sorted: 11 Kg Total catch: 121.00 CATCH/HOUR: 302.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chaetodipterus lippel	52.13	103	17.23	44
Arius parkii	35.38	35	11.72	
Selene dorsalis	32.00	290	10.59	
Ilisha africana	30.00	693	9.92	43
Lutjanus dentatus	23.75	3	7.85	
Sparus caeruleostictus	17.00	33	5.62	
Sardinella maderensis	17.00	2110	5.62	41
Elops lacerta	10.00	25	3.31	
Stromateus fiatola	7.50	13	2.48	
Pentanezum quinquevatus	6.00	90	1.98	
Trichiurus lepturus	6.00	250	1.98	
Drepane africana	6.00	15	1.98	
Dentex gibbosus	5.75	8	1.90	
Leptocharias smithii	5.25	3	1.74	
Pseudotolithus brachygnathus	4.50	3	1.49	
Sphyræna guanchancho	4.00	10	1.32	
Brachydeuterus auritus	4.00	720	1.32	
Decapterus rhonchus	4.00	1040	1.32	42
Lagocephalus laevigatus	3.50	3	1.16	
Scomberomorus tritor	3.25	3	1.07	
Plectorhynchus mediterraneus	3.00	3	0.99	
Dasyatis margarita	3.00	3	0.99	
Alectis alexandrinus	3.00	10	0.99	
Bodianus spectiosus	2.50	3	0.83	
Galeoides decadactylus	2.50	8	0.83	
Acanthurus monroviae	2.26	4	0.75	
Pteroscion pelli	2.00	40	0.66	
Pseudotolithus senegalensis	2.00	10	0.66	
Chloroscombrus chrysurus	2.00	1050	0.66	
Pseudotolithus epipecterus	1.75	3	0.58	
Balistes punctatus	1.50	3	0.50	
Total	302.52		100.01	

PROJECT STATION: 25
 DATE: 8/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 649
 start stop duration Long E 1209
 TIME :10:20:00 10:50:00 30 (min) Purpose code: 3
 LOG :4694.10 4695.40 1.70 Area code : 2
 FDEPTH: 73 76 GearCond.code:
 BDEPTH: 73 76 Validity code:
 Towing dir: 270° Wire out: 400 m Speed: 31 km*10
 Sorted: 32 Kg Total catch: 31.86 CATCH/HOUR: 63.72

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus tracas	20.88	536	32.64	46
Pagellus bellottii	18.00	232	28.75	47
Alloteuthis africana	18.00	522	37.11	
Sardinella aurita	16.00	212	10.36	45
Balistes punctatus	2.00	2	3.14	
Dentex congoensis	1.80	46	2.82	4E
Fistularia petimba	1.80	6	2.82	
Ilex coindetii	0.80	12	1.26	
Decapterus punctatus	0.80	14	1.26	
Sparus auriga	0.20	2	0.31	
Ariomma bondi	0.02	2	0.03	
Saurida brasiliensis	0.00	2		
Total	63.72		100.00	

PROJECT STATION: 25
 DATE: 8/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 647
 start stop duration Long E 1150
 TIME :12:45:00 13:15:00 31 (min) Purpose code: 3
 LOG :4712.00 4713.80 1.65 Area code : 2
 FDEPTH: 180 173 GearCond.code:
 BDEPTH: 180 173 Validity code:
 Towing dir: * Wire out: 800 m Speed: 32 km*10
 Sorted: 26 Kg Total catch: 25.96 CATCH/HOUR: 50.25

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Ilex coindetii	22.84	435	45.45	49
Spicara alta	7.16	93	14.25	
Zenopsis conchifer	6.00	23	11.94	
Dentex angolensis	5.42	21	10.79	50
Squatina oculata	4.26	2	8.48	
Ariomma bondi	2.32	46	4.62	
Trichiurus lepturus	1.35	4	2.69	
Miracorvina angolensis	0.48	2	0.96	
Pterothrissus belloci	0.39	2	0.78	
Saurida brasiliensis	0.02	8	0.04	
Total	50.24		100.00	

PROJECT STATION: 27
 DATE: 8/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 645
 start stop duration Long E 1147
 TIME :14:15:00 14:47:00 32 (min) Purpose code: 3
 LOG :4720.30 4722.00 2.00 Area code : 2
 FDEPTH: 245 230 GearCond.code:
 BDEPTH: 245 230 Validity code:
 Towing dir: * Wire out: 900 m Speed: 30 km*10
 Sorted: 29 Kg Total catch: 191.75 CATCH/HOUR: 359.53

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chlorophthalmus atlanticus	241.31		67.12	
Synagrops microlepis	65.81		18.30	
Zenopsis conchifer	28.69	135	7.98	
Dentex angolensis	9.38	24	2.61	51
Trichiurus lepturus	6.09	24	1.69	
Ophichthus dumerilii	5.44	3193	1.51	
Ilex coindetii	1.22	48	0.34	
Ariomma bondi	1.22	48	0.34	
Hondlène microstoma	0.19	13	0.05	
Parapenaeus longirostris	0.19	38	0.05	
Total	359.54		99.99	

PROJECT STATION: 28
 DATE: 8/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 710 Long E 1223
 start stop duration
 TIME :22:25:00 22:55:00 30 (min) Purpose code: 3
 LOG :4797.70 4799.40 1.70 Area code : 2
 FDEPTH: 83 76 GearCond.code:
 BDEPTH: 83 76 Validity code:
 Towing dir: 90° Wire out: 450 m Speed: 28 km*10
 Sorted: 29 Kg Total catch: 119.60 CATCH/HOUR: 239.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Lepidotrigla carolae	72.00		30.10	
Pagellus bellottii	53.60	1204	22.41	54
Trachurus trecae	36.00	848	15.05	53
Sepia officinalis hierredda	20.00	40	8.36	
Dentex congongensis	16.00	352	6.69	52
Umrina canariensis	9.60	16	4.01	
Dentex angolensis	8.00	168	3.34	
Citharus linguatula	6.40	936	2.68	
Hoplunnis punctata	6.00	496	2.51	
Squatina oculata	5.20	2	2.17	
Spicara alta	2.40	328	1.00	
Arnoglossus imperialis	2.40	208	1.00	
Boops boops	0.80	56	0.33	
Illex coindetii	0.80	24	0.39	
Chaetodon hoefleri	0.00	8		
Saurida brasiliensis	0.00	8		
Trachinus lineolatus	0.00	8		
Uranoscopus cadenati	0.00	8		
Total	239.20		99.98	

PROJECT STATION: 29
 DATE: 9/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 707 Long E 1157
 start stop duration
 TIME :07:40:00 08:10:00 30 (min) Purpose code: 3
 LOG :4889.90 4891.30 1.70 Area code : 2
 FDEPTH: 313 260 GearCond.code:
 BDEPTH: 313 260 Validity code:
 Towing dir: 50° Wire out:1100 m Speed: 3 km*10
 Sorted: 31 Kg Total catch: 546.60 CATCH/HOUR: 1093.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Synagrops microlepis	430.40	4384	39.37	55
Chlorophthalmus atlanticus	361.60	6368	33.08	
Squatina oculata	59.60	4	5.45	
Merluccius polli	41.60	256	3.81	
Paromola cuvieri	40.00	32	3.66	
Carcharhinus falciformis	27.40	2	2.51	
Shrimps, small, non comm.	16.00	1312	1.46	
GALATHEIDAE	16.00	1312	1.46	
Parasudis sp.	16.00	320	1.46	
Arionna bondi	16.00	268	1.46	
Reja sp.	12.80	64	1.17	
Todaropsis eblanae	9.60	128	0.88	
Illex coindetii	9.60	96	0.88	
Pterothrissus belloci	9.60	96	0.88	
Ceelorhynchus caelorrhynchus	9.60	32	0.88	
Zenopsis conchifer	6.40	32	0.59	
Peristadion cataphractum	3.20	96	0.29	
Parapenaeus longirostris	3.20	768	0.29	
Laemonema laureysi	0.64	128	0.06	
Gadella maraldi	0.64	224	0.06	
Hymenocephalus italicus	0.64	96	0.06	
Arnoglossus imperialis	0.64	96	0.06	
Solenocera africana	0.64	160	0.06	
Sepia officinalis hierredda	0.64	256	0.06	
Diphus dumerilii	0.32	256	0.03	
Hematopalaeon hastatus	0.32	192	0.03	
Plesionike marlia	0.06	224	0.01	
Lophius vaillantii	0.06	64	0.01	
Total	1093.20		100.02	

PROJECT STATION: 30
 DATE: 9/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 718 Long E 2002
 start stop duration
 TIME :10:25:30 10:55:00 30 (min) Purpose code: 3
 LOG :4909.30 4911.40 1.30 Area code : 2
 FDEPTH: 414 402 GearCond.code:
 BDEPTH: 414 402 Validity code:
 Towing dir: 135° Wire out:1200 m Speed: 24 km*10
 Sorted: 23 Kg Total catch: 520.31 CATCH/HOUR: 1040.62

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Merluccius polli	809.60	3168	77.80	57
Etmopterus spinax	44.00	1012	4.23	
Helicolenus dactylopterus	35.20	44	3.38	
Laemonema laureysi	30.60	396	2.96	
Stereomastix sculpita	18.80	748	1.90	
Epigonus telescopus	13.20	44	1.27	
Pterothrissus belloci	13.20	44	1.27	
Torpedo nobiliana	13.00	2	1.25	
Aristeus varidensis	12.80	2264	1.23	
Shrimps, small, non comm.	8.80		0.85	
Brosmiculus imberbis *	8.80	308	0.85	
Chaunax pictus	6.60	264	0.63	
Plesionema edwardsianus	5.00	76	0.48	
Beryx splendens	4.40	44	0.42	
Hymenocephalus italicus	4.40	660	0.42	
Diphus dumerilii	2.20	616	0.21	
Yarellia blackfordi	2.20	132	0.21	
Synagrops microlepis	2.20	132	0.21	
Illex coindetii	2.20	132	0.21	
GALATHEIDAE	1.32	352	0.19	
Todaropsis eblanae	0.88	44	0.08	
Solenocera africana	0.08	2		
Borostomias sp.	0.00	88		
Stomias affinis	0.00	88		
Nezumia aequalis	0.00	88		
Total	1040.62		99.99	

PROJECT STATION: 31
 DATE: 9/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 712 Long E 1215
 start stop duration
 TIME :11:57:00 12:29:00 32 (min) Purpose code: 3
 LOG :4928.10 4929.20 1.76 Area code : 2
 FDEPTH: 196 189 GearCond.code:
 BDEPTH: 196 189 Validity code:
 Towing dir: 320° Wire out: 800 m Speed: 33 km*10
 Sorted: 23 Kg Total catch: 23.20 CATCH/HOUR: 43.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Dentex angolensis	27.56	79	63.36	58
Squatina oculata	4.50	2	10.34	
Illex coindetii	3.38	53	7.77	
Todaropsis eblanae	2.81	84	6.46	
Zenopsis conchifer	2.25	11	5.17	
Arionna bondi	1.69	28	3.89	
Pterothrissus belloci	0.75	6	1.72	
Spicara alta	0.38	4	0.87	
Boops boops	0.09	2	0.21	
Sepia officinalis hierredda	0.06	2	0.14	
Dibranchius atlanticus	0.04	6	0.09	
Total	43.51		100.02	

PROJECT STATION: 32
 DATE: 9/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 719 Long E 1221
 start stop duration
 TIME :13:44:00 14:15:00 31 (min) Purpose code: 3
 LOG :4938.20 4940.90 1.58 Area code : 2
 FDEPTH: 156 127 GearCond.code:
 BDEPTH: 156 127 Validity code:
 Towing dir: 90° Wire out: 700 m Speed: 30 km*10
 Sorted: 40 Kg Total catch: 40.42 CATCH/HOUR: 78.23

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Spicara alta	17.42	221	22.27	
Mustelus mustelus	16.45	4	21.63	
Dentex angolensis	11.61	45	14.84	59
Fistularia petimba	9.32	14	10.64	
Todaropsis eblanae	5.81	393	7.43	
Illex coindetii	3.68	112	4.70	
Zenopsis conchifer	2.29	6	4.21	
Trachurus trecae	2.42	34	3.39	60
Trichurus lepturus	1.74	2	2.22	
Arionna bondi	1.74	23	2.22	
Torpedo torpedo	1.35	2	1.73	
Sphoeroides sp.	1.16	2	1.48	
Octopus vulgaris	0.77	2	0.98	
Zeus faber	0.77	2	0.98	
Raja miraletus	0.58	2	0.74	
Pterothrissus belloci	0.58	8	0.74	
Bembrops heterurus	0.39	2	0.50	
Uranoscopus cadenati	0.10	2	0.13	
Monolele microstoma	0.02	2	0.03	
Saurida brasiliensis	0.02	2	0.03	
Total	78.22		99.99	

PROJECT STATION: 33
 DATE: 9/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 719 Long E 1227
 start stop duration
 TIME :16:10:00 16:40:00 30 (min) Purpose code: 3
 LOG :4946.30 4947.50 1.57 Area code : 2
 FDEPTH: 100 100 GearCond.code:
 BDEPTH: 100 100 Validity code:
 Towing dir: 320° Wire out: 500 m Speed: 32 km*10
 Sorted: 32 Kg Total catch: 228.40 CATCH/HOUR: 456.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trachurus trecae	346.00	128	76.18	
Dentex congongensis	22.40	292	4.90	61
Alloteuthis africana	16.30	4704	3.68	
Pagellus bellottii	16.40	94	3.59	63
Dentex angolensis	13.60	56	2.98	
Brachydeuterus auritus	10.80	96	2.36	
Fistularia petimba	10.00	18	2.19	
Illex coindetii	6.00	84	1.31	
Dentex barnardi	5.00	24	1.09	65
Dentex gibbosus	4.00	10	0.88	
Sparus pagrus africanus	3.80	4	0.83	
Total	456.80		99.99	

PROJECT STATION: 34
 DATE: 9/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 718 Long E 1230
 start stop duration
 TIME :17:33:00 18:08:00 35 (min) Purpose code: 3
 LOG :4953.80 4955.30 1.90 Area code : 2
 FDEPTH: 80 80 GearCond.code:
 BDEPTH: 80 80 Validity code:
 Towing dir: 320° Wire out: 400 m Speed: 30 km*10
 Sorted: 18 Kg Total catch: 130.89 CATCH/HOUR: 224.38

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Trachurus trecae	89.14	2301	39.73	70
Pagellus bellottii	30.51	213	13.60	69
Dentex gibbosus	26.57	46	11.84	66
Alloteuthis africana	20.57	8208	9.17	
Sepia officinalis hierredda	18.00	14	8.02	
Dentex barnardi	14.06	65	6.27	68
Umrina canariensis	6.86	14	3.06	
Dentex congongensis	5.51	101	2.63	67
Fistularia petimba	3.43	7	1.53	
Boops boops	2.74	82	1.22	
Sparus caeruleostictus	2.06	2	0.52	
Todaropsis eblanae	1.37	34	0.61	
Sparus pagrus africanus	0.86	2	0.38	
Spicara alta	0.69	89	0.31	
Sardinella aurita	0.69	55	0.31	
Dentex angolensis	0.51	2	0.23	
Illex coindetii	0.34	14	0.15	
Shrimps, small, non comm.	0.07	110	0.03	
Saurida brasiliensis	0.00	14		
Total	224.38		100.01	

PROJECT STATION: 35
 DATE: 9/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 720
 start stop duration Long E 1249
 TIME :06:14:00 06:34:00 20 (min) Purpose code: 3
 LOG :4977.80 4978.00 1.00 Area code : 2
 FDEPTH: 17 10 GearCond.code: 8
 BDEPTH: 17 10 Validity code: 9
 Towing dir: 90° Wire out: 100 m Speed: kn*10
 Sorted: Kg Total catch: 73.25 CATCH/HOUR: 219.75

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chaetodipterus lippei	71.85	165	32.70	
Lutjanus agennes	25.20	39	11.47	
Paragaleus pectoralis	19.20	3	8.74	
Lutjanus dentatus	18.00	3	8.19	
Mycteroperca rubra	17.40	3	7.92	
Galeus melastomus	12.00	3	5.46	
Sparus caeruleostictus	9.90	24	4.51	
Sphyræna guachancho	9.00	9	4.10	
Dentex barnardi	8.40	24	3.82	
Pomadourus inclusus	4.50	39	2.05	
Bodianus speciosus	4.50	6	2.05	
Lutjanus goreensis	4.20	3	1.91	
Centrarchops chapini	3.60	3	1.64	
Alloteuthis africana	2.70	678	1.23	
Scomberomorus tritor	2.55	3	1.16	
Chromis sp.	2.10	150	0.96	
Parakuhlia macrophthalms	2.10	30	0.96	
Acanthurus monroviae	1.50	0	0.68	
Fistularia petimba	0.90	3	0.41	
Chaetodon hoefleri	0.06	3	0.03	
Decapterus punctatus	0.03	6	0.01	
Sardinella aurita	0.03	6	0.01	
Boops boops	0.03	3	0.01	
Total	219.75		100.02	

PROJECT STATION: 38
 DATE: 10/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 728
 start stop duration Long E 1219
 TIME :15:39:00 16:09:00 30 (min) Purpose code: 3
 LOG :5024.50 5025.70 1.20 Area code : 2
 FDEPTH: 488 407 GearCond.code: 2
 BDEPTH: 488 407 Validity code:
 Towing dir: 320° Wire out: 1400 m Speed: 31 kn*10
 Sorted: 84 Kg Total catch: 435.90 CATCH/HOUR: 871.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Merluccius pollii, male	484.00	2100	55.52	79
Merluccius pollii, female	320.00	800	36.71	80
Centroporus granulatus	25.80	4	2.96	
Etmopterus spinax	11.00	560	1.26	
Aristeus varidens	6.00	450	0.69	
Pterothrissus bellioi	4.00	10	0.46	
Yarella blackfordi	3.00	210	0.34	
Plesiopeneus edwardsianus	3.00	46	0.34	81
Bathygadus macrops	2.00	10	0.23	
Scorpaena sp.	2.00	30	0.23	
Brosmiculus imberbis *	2.00	60	0.23	
Shrimps, small, non comm.	2.00	0	0.23	
Leptostomias gracilis	1.00	10	0.11	
Malacocephalus laevis	1.00	10	0.11	
Stereomastis sculpta	1.00	40	0.11	
Illex coindetii	1.00	20	0.11	
Synagrops microlepis	0.50	20	0.06	
Laemonema laureysi	0.50	30	0.06	
Hoplostethus mediterraneus	0.50	30	0.06	
Coelorrhinus coelorrhinus	0.50	10	0.06	
Melanostomias sp.	0.50	20	0.06	
Chaunax pictus	0.50	30	0.06	
Nezumia aequalis	0.00	10		
Total	871.80		100.00	

PROJECT STATION: 36
 DATE: 9/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 730
 start stop duration Long E 1241
 TIME :11:37:00 12:09:00 32 (min) Purpose code: 3
 LOG :5004.00 5005.30 1.30 Area code : 2
 FDEPTH: 78 79 GearCond.code: 2
 BDEPTH: 78 79 Validity code:
 Towing dir: 270° Wire out: 400 m Speed: 30 kn*10
 Sorted: 49 Kg Total catch: 49.80 CATCH/HOUR: 93.98

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Dentex canariensis	39.00	225	41.76	74
Boops boops	16.50	330	17.67	
Dentex barnardi	12.19	51	13.05	71
Dentex gibbosus	6.19	11	6.63	72
Fistularia petimba	4.50	11	4.82	
Dentex congoensis	3.75	79	4.02	73
Squatina oculata	2.81	2	3.01	
Trachurus trecae	2.81	68	3.01	75
Sparus pagrus africanus	2.81	6	3.01	77
Alloteuthis africana	0.94	1	1.01	
Sardinella aurita	0.56	17	0.60	76
Illex coindetii	0.38	11	0.41	
Chaetodon hoefleri	0.38	2	0.41	
Dentex angolensis	0.38	2	0.41	
Ariomma bondi	0.19	2	0.20	
Total	93.98		100.02	

PROJECT STATION: 39
 DATE: 10/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 725
 start stop duration Long E 1215
 TIME :17:13:00 17:43:00 30 (min) Purpose code: 3
 LOG :5030.20 5032.20 2.00 Area code : 2
 FDEPTH: 345 347 GearCond.code: 2
 BDEPTH: 345 347 Validity code:
 Towing dir: 90° Wire out: 1100 m Speed: 30 kn*10
 Sorted: 30 Kg Total catch: 438.70 CATCH/HOUR: 877.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Chlorophthalmus atlanticus	314.00	650	35.79	
Alopias superciliosus	200.00	2	22.79	
Merluccius pollii, male	100.00	680	11.40	82
Synagrops microlepis	80.00	4200	9.12	
Galeorhinus galeus	70.00	2	7.98	
Merluccius pollii, female	44.00	100	5.01	83
Nematocarcinus africanus	32.00	14720	3.65	
Laemonema laureysi	9.00	80	1.03	
Brosmiculus imberbis *	6.00	120	0.68	
HYCTOPHIDAE	6.00	820	0.68	
Nezumia aequalis	5.00	40	0.57	
Pterothrissus bellioi	5.00	40	0.57	
CHLOROPHTHALMIDAE	2.80	40	0.32	
Helicolenus dactylopterus	1.00	60	0.11	
Coelorrhinus coelorrhinus	1.00	20	0.11	
Parapeneus longirostris	0.60	140	0.07	
Total	876.40		99.88	

PROJECT STATION: 37
 DATE: 10/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 729
 start stop duration Long E 1232
 TIME :13:03:00 13:23:00 20 (min) Purpose code: 3
 LOG :5011.10 5012.10 1.00 Area code : 2
 FDEPTH: 102 100 GearCond.code: 2
 BDEPTH: 102 100 Validity code:
 Towing dir: 320° Wire out: 500 m Speed: 31 kn*10
 Sorted: 21 Kg Total catch: 21.57 CATCH/HOUR: 64.71

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Epinephelus aeneus	31.20	3	48.22	
Atractoscion aequidens	5.70	4	8.81	
Sparus caeruleostictus	5.40	6	8.34	
Trachurus trecae	5.10	219	7.88	78
Sparus auriga	4.50	6	6.95	
Sparus pagrus africanus	3.60	6	5.56	
Brotula barbata	2.70	3	4.17	
Fistularia petimba	1.50	3	2.32	
Illex coindetii	1.20	63	1.85	
Anthias anthias	1.20	18	1.85	
Todaropsis eblanae	0.90	36	1.39	
Dentex angolensis	0.90	12	1.39	
Dentex congoensis	0.60	15	0.93	
Boops boops	0.15	6	0.23	
Spicara alta	0.06	6	0.09	
Total	64.71		99.98	

PROJECT STATION: 40
 DATE: 11/ 5/91 GEAR TYPE: PT No:2 POSITION:Lat S 750
 start stop duration Long E 1258
 TIME :00:40:00 01:10:00 30 (min) Purpose code: 3
 LOG :5098.80 5100.30 1.50 Area code : 2
 FDEPTH: 20 20 GearCond.code: 2
 BDEPTH: 50 45 Validity code:
 Towing dir: 90° Wire out: 50 m Speed: 30 kn*10
 Sorted: 29 Kg Total catch: 28.80 CATCH/HOUR: 57.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Sardinella aurita	27.00	146	46.88	84
Brachydeuterus auritus	19.20	252	33.33	87
Sardinella maderensis	7.80	62	13.54	85
Decapterus rhonchus	3.00	26	5.21	86
Sphyræna guachancho	0.40	8	0.69	
Alloteuthis africana	0.10	0	0.17	
Saurida brasiliensis	0.10	0	0.17	
Total	57.60		99.99	

PROJECT STATION: 41
 DATE: 11/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 758
 start stop duration Long E 1239
 TIME :04:45:00 05:15:00 30 (min) Purpose code: 3
 LOG :5135.20 5136.40 1.70 Area code : 2
 FDEPTH: 410 412 GearCond.code: 2
 BDEPTH: 410 412 Validity code:
 Towing dir: 345° Wire out: 1200 m Speed: 31 kn*10
 Sorted: 64 Kg Total catch: 386.84 CATCH/HOUR: 773.68

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP. NO.
	weight	numbers		
Merluccius pollii	489.60		63.28	
Nematocarcinus africanus	252.00		32.57	
Lophius vaillanti	12.00	696	1.55	
SQUALIDAE	8.80	2	1.14	
Chaunax pictus	3.60	144	0.47	
Stomias affinis	1.20	24	0.16	
PENAEIDAE	1.20	48	0.16	
Hymenocephalus italicus	1.20	144	0.16	
Malacocephalus laevis	1.00	12	0.13	
Plesiopeneus edwardsianus	0.60	10	0.08	
Brosmiculus imberbis *	0.60	36	0.08	
Coelorrhinus coelorrhinus	0.60	60	0.08	
Melanostomias sp.	0.36	36	0.05	
Laemonema laureysi	0.36	48	0.05	
Trichiurus lepturus	0.24	120	0.03	
Chlorophthalmus atlanticus	0.12	48	0.02	
Merluccius pollii	0.00			89
Merluccius pollii	0.00			88
POLYCHAELIDAE	0.00	12		
MYCTOPHIDAE	0.00	12		
Yarella blackfordi	0.00	36		

PROJECT STATION: 42
 DATE: 11/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 800 Long E 1250
 start stop duration
 TIME :06:56:00 07:10:00 14 (min) Purpose code: 3
 LOG :5149.10 5149.60 0.60 Area code : 2
 FDEPTH: 106 105 GearCond.code:
 BDEPTH: 106 105 Validity code:
 Towing dir: 90° Wire out: 500 m Speed: 26 km*10

Sorted: Kg Total catch: 57.37 CATCH/HOUR: 245.87

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Dentex angolensis	45.00	150	18.30	90
Boops boops	37.25		15.17	
Epinephelus aeneus	27.43	4	11.16	
Epinephelus goreensis	21.43	9	8.72	
Mustelus mustelus	18.64	4	7.58	
Dentex macrophthalmus	15.00	64	6.10	
Sepia officinalis hierredda	12.00	34	4.88	
Anthias anthias	8.57	111	3.49	
Torpedo torpedo	7.50	4	3.05	
Dentex barnardi	7.29	26	2.96	
Brotula barbata	6.43	4	2.62	
Trigla lyra	6.21	94	2.53	
Pagellus bellottii	4.93	86	2.01	
Sparus pagrus pagrus	4.07	13	1.66	
Citharus linguatula	3.85	159	1.57	
Sepia juveniles	3.00	60	1.22	
Trachurus trecae	2.79	77	1.13	
Dentex gibbosus	2.57	9	1.05	
Fistularia petimba	2.14	4	0.87	
Scorpaena angolensis	2.14	4	0.87	
Lophius vaillanti	1.50	116	0.61	
Todaropsis eblanae	0.43	4	0.17	
Chaetodon hoefleri	0.43	4	0.17	
Cynoponiticus ferox	0.43	4	0.17	
Dentex angolensis	0.21	73	0.09	
Saurida brasiliensis	0.21	73	0.09	
Calappa pelii	0.13	4	0.05	
Trichiurus lepturus	0.04	4	0.02	
Arnoglossus imperialis	0.04	9	0.02	
Uranoscopus cadonati	0.04	4	0.02	
Euglossidium sp.	0.04	4	0.02	
Illex coindetii	0.00	4		
Total	241.79		98.37	

PROJECT STATION: 43
 DATE: 11/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 759 Long E 1255
 start stop duration
 TIME :08:01:00 08:25:00 24 (min) Purpose code: 3
 LOG :5155.00 5156.20 1.10 Area code : 2
 FDEPTH: E5 80 GearCond.code:
 BDEPTH: E5 80 Validity code:
 Towing dir: 90° Wire out: 400 m Speed: 27 km*10

Sorted: 30 Kg Total catch: 79.93 CATCH/HOUR: 199.83

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus trecae	124.50	2715	62.30	91
Squatina oculata	19.38	3	9.70	
Brachydeuterus auritus	13.25	165	6.63	
Sepia officinalis hierredda	6.13	13	4.07	
Sphyraena sphyraena	6.00	33	4.00	
Alloteuthis africana	7.05	2538	3.53	
Dentex angolensis	6.25	25	3.13	
Dentex congouensis	4.50	55	2.25	
Illex coindetii	2.50	35	1.25	
Sarda sarda	2.25	3	1.13	
Zeus faber	1.75	10	0.88	
Pagellus bellottii	1.25	13	0.63	
Fistularia petimba	0.88	3	0.44	
Dibranchius atlanticus	0.10	40	0.05	
Boops boops	0.05	5	0.03	
Total	199.84		100.02	

PROJECT STATION: 44
 DATE: 11/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 800 Long E 1301
 start stop duration
 TIME :09:07:00 09:37:00 30 (min) Purpose code: 3
 LOG :5161.00 5162.70 1.54 Area code : 2
 FDEPTH: 65 59 GearCond.code:
 BDEPTH: 65 59 Validity code:
 Towing dir: 90° Wire out: 350 m Speed: 29 km*10

Sorted: Kg Total catch: 47.73 CATCH/HOUR: 95.46

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Brachydeuterus auritus	36.20	795	37.92	93
Pagellus bellottii	21.50	186	22.52	94
Trachurus trecae	12.10	732	12.68	92
Fistularia petimba	6.00	14	6.29	
Trichiurus lepturus	5.70	18	5.97	
Trachurus trecae	3.90	34	4.09	95
Sarda sarda	2.00	2	2.10	
Epinephelus aeneus	1.50	2	1.57	
Alloteuthis africana	1.40	304	1.47	
Lagocephalus laevigatus	1.20	2	1.26	
Dentex barnardi	1.00	8	1.05	
Sphyraena sphyraena	0.50	4	0.54	
Selene dorsalis	0.60	6	0.64	
Zeus faber	0.60	4	0.64	
Dentex congouensis	0.30	2	0.31	
Sardinella aurita	0.08	8	0.08	
Illex coindetii	0.06	2	0.06	
Dibranchius atlanticus	0.02	4	0.02	
Total	95.46		100.01	

PROJECT STATION: 45
 DATE: 11/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 760 Long E 1306
 start stop duration
 TIME :10:20:00 10:53:00 33 (min) Purpose code: 3
 LOG :5166.50 5168.40 1.70 Area code : 2
 FDEPTH: 35 25 GearCond.code:
 BDEPTH: 35 25 Validity code:
 Towing dir: 90° Wire out: 200 m Speed: 30 km*10

Sorted: Kg Total catch: 26.97 CATCH/HOUR: 49.04

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Brachydeuterus auritus	38.36	5771	78.22	96
Sphyraena guanchancho	7.27	15	14.82	
Sphyraena juveniles	0.91	7	1.86	
Zeus faber	0.82	2	1.67	
Alloteuthis africana	0.82	171	1.67	
Trachurus trecae	0.36	35	0.73	
Engraulis encrasicolus	0.18	20	0.37	
Decapterus rhonchus	0.18	2	0.37	
Selene dorsalis	0.04	2	0.08	
Todaropsis eblanae	0.04	2	0.08	
Trichiurus lepturus	0.04	4	0.08	
Sardinella aurita	0.02	2	0.04	
Pagellus bellottii	0.00	64		
Total	49.04		99.99	

PROJECT STATION: 46
 DATE: 11/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 803 Long E 1311
 start stop duration
 TIME :11:37:00 11:42:00 5 (min) Purpose code: 3
 LOG :5173.90 5174.10 0.20 Area code : 2
 FDEPTH: 14 14 GearCond.code:
 BDEPTH: 14 14 Validity code:
 Towing dir: 150° Wire out: 100 m Speed: 25 km*10

Sorted: 13 Kg Total catch: 13.38 CATCH/HOUR: 160.56

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Drepane africana	32.40	72	20.18	
Pomadasyd jubelini	24.00	84	14.95	
Chaetodipterus lippel	15.60	36	9.72	
Pseudocottius typus	15.60	12	9.72	
Stromateus fiatola	14.40	12	8.97	
Chloroscombrus chrysurus	10.80	3120	6.72	
Alectis ciliaris	10.80	48	6.72	
Galeodes decadactylus	10.80	36	6.72	
Cynoglossus browni	9.60	12	5.98	
Arius parkii	8.40	24	5.23	
Brachydeuterus auritus	3.60	648	2.24	
Sphyraena guanchancho	2.40	36	1.49	
Trichiurus lepturus	1.20	216	0.75	
Selene dorsalis	0.60	120	0.37	
Sardinella maderensis	0.24	84	0.15	
Engraulis encrasicolus	0.12	24	0.07	
Trachurus trecae	0.00	12		
Ilisa africana	0.00	12		
Total	160.56		100.01	

PROJECT STATION: 47
 DATE: 11/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 809 Long E 1257
 start stop duration
 TIME :16:30:00 17:00:00 30 (min) Purpose code: 3
 LOG :5216.10 5217.10 1.56 Area code : 2
 FDEPTH: 100 99 GearCond.code:
 BDEPTH: 100 99 Validity code:
 Towing dir: 330° Wire out: 500 m Speed: 31 km*10

Sorted: 28 Kg Total catch: 176.50 CATCH/HOUR: 353.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus trecae	289.00	8564	76.20	100
Dentex gibbosus	48.00	22	13.60	97
Dentex angolensis	16.00	48	4.53	98
Dentex barnardi	8.00	22	2.27	99
Zeus faber	7.00	20	1.98	
Boops boops	2.00	143	0.57	
Sphyraena sphyraena	0.80	2	0.23	
Uranoscopus cadonati	0.60	2	0.17	
Fistularia petimba	0.60	2	0.17	
Brachydeuterus auritus	0.40	40	0.11	
Anthias anthias	0.40	2	0.11	
Illex coindetii	0.20	10	0.06	
Total	353.00		100.00	

PROJECT STATION: 48
 DATE: 11/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 811 Long E 1247
 start stop duration
 TIME :18:37:00 19:07:00 30 (min) Purpose code: 3
 LOG :5230.00 5231.90 1.90 Area code : 2
 FDEPTH: 239 234 GearCond.code:
 BDEPTH: 239 234 Validity code:
 Towing dir: 160° Wire out: 900 m Speed: 25 km*10

Sorted: Kg Total catch: 29.88 CATCH/HOUR: 59.76

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Chlorophthalmus atlanticus	43.80	5152	73.29	
Parapaneus longirostris	6.90	2956	11.55	102
Synagrops microlepis	3.00	172	5.02	
Trichiurus lepturus	0.90	4	1.51	
OPHIIDIAE	0.80	50	1.34	
Diaphus dumerilii	0.80	320	1.34	
CHLOROPHTHALMIDAE	0.80	76	1.34	
Trachurus trecae	0.70	18	1.17	
Solenocera africana	0.60	84	1.00	101
Merluccius polli	0.40	6	0.67	
Brotula barbata	0.30	2	0.50	
Illex coindetii	0.20	8	0.33	
Todaropsis eblanae	0.16	4	0.27	
NETTASTONATIDAE	0.10	2	0.17	
Coeleorhynchus coeleorhynchus	0.10	8	0.17	
Neomerinthe folgeri	0.06	6	0.13	
OPHICHTHIDAE	0.04	4	0.07	
Shrimps, small, non comm.	0.04	60	0.07	
APOGONIDAE	0.02	14	0.03	
Peristedion cataphractum	0.02	6	0.03	
Zeus faber	0.02	6	0.03	
Total	59.76		100.00	

PROJECT STATION: 49
 DATE:11/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 810
 start stop duration Long E 1243
 TIME :20:05:00 20:35:00 30 (min) Purpose code: 3
 LOG :5237.30 5237.90 1.30 Area code : 2
 FDEPTH: 362 359 GearCond.code:
 BDEPTH: 362 359 Validity code:
 Towing dir: 340° Wire out:1200 m Speed: 25 kn*10

Sorted: Kg Total catch: 326.69 CATCH/HOUR: 653.39

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP.NO.
Nematocarcinus africanus	305.50 64134	46.76	
Merluccius polli	208.00	31.83	
Chlorophthalmus atlanticus	39.00	5.97	
Pterothrissus belloci	26.00	3.98	
Hymenocephalus italicus	22.10	3.38	
OGCOCEPHALIDAE	11.70	1.79	
Laemonema laureysi	10.40	1.59	
Chaunax pictus	9.10	1.39	
OPHICHTHIDAE	5.20	0.80	
Nezumia aequalis	5.20	0.80	
Etmopterus spinax	3.38	0.52	
Todaropsis eblanae	2.60	0.40	
Plesionika martia	2.60	0.40	
NETTASTOMATIDAE	1.30	0.20	
Parapenaeus longirostris	0.52	0.08	
Peristedion cataphractum	0.26	0.04	
Diaphus dumerilli	0.26	0.04	
PENAEIDAE	0.26	0.04	
Total	653.39	100.01	

PROJECT STATION: 50
 DATE:11/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 818
 start stop duration Long E 1318
 TIME :11:55:00 12:25:00 30 (min) Purpose code: 3
 LOG :5385.20 5396.90 1.60 Area code : 2
 FDEPTH: 18 20 GearCond.code:
 BDEPTH: 18 20 Validity code:
 Towing dir: 175° Wire out: 100 m Speed: 31 kn*10

Sorted: 20 Kg Total catch: 126.00 CATCH/HOUR: 252.00

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP.NO.
L.isha africana	122.40 11204	48.57	
Stromateus fiatola	25.00	9.92	105
Sphyræna guachancho	18.40	7.30	106
Trichurus lepturus	16.00	6.35	
Alectis alexandrinus	14.60	5.79	
Pseudotolithus senegalensis	6.60	2.62	
Pteroscion peli	6.40	2.54	
Sardinella maderensis	6.00	2.38	107
Selene dorsalis	5.60	2.22	
Galeoides decadactylus	5.00	1.98	
Scomberomorus tritor	4.60	1.83	
Brachydeuterus auritus	4.00	1.59	
Orcpane africana	3.40	1.35	
Chloroscombrus chrysurus	3.20	1.27	
Chloroscombrus chrysurus	2.40	0.95	
Pseudotolithus typus	2.20	0.87	
Trichurus lepturus	1.80	0.71	
Sepia officinalis hierredda	1.60	0.63	
Pteromyiaeus bovinus	1.40	0.56	
Panulirus regius	1.00	0.40	
Sardinella maderensis	0.40	0.16	
Total	252.00	99.99	

PROJECT STATION: 51
 DATE:11/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 825
 start stop duration Long E 1316
 TIME :13:26:00 13:57:00 31 (min) Purpose code: 3
 LOG :5405.70 5407.00 1.57 Area code : 2
 FDEPTH: 33 31 GearCond.code:
 BDEPTH: 33 31 Validity code:
 Towing dir: ° Wire out: 150 m Speed: 30 kn*10

Sorted: 39 Kg Total catch: 39.39 CATCH/HOUR: 76.24

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP.NO.
Sphyræna guachancho	15.48 62	20.30	
Dentex barnardi	11.61 29	15.23	109
Brachydeuterus auritus	8.13 783	10.66	
Pseudotolithus senegalensis	7.74 4	10.15	
Pomadasys jubelini	7.35 10	9.64	
Galeoides decadactylus	4.84 37	6.35	
Pomadasys perolei	4.84 12	6.35	
Rhizoprionodon acutus	3.87 2	5.08	
Selene dorsalis	3.68 141	4.83	111
Trichurus lepturus	1.94 213	2.54	
L.isha africana	1.35 50	1.77	
Sparus caeruleostictus	1.35 4	1.77	
Stromateus fiatola	1.16 6	1.52	
Lithognathus moryurus	0.77 2	1.01	
Pagellus bellottii	0.77 4	1.01	
Engraulis encrasicolus	0.58 108	0.76	
Sardinella maderensis	0.58 48	0.76	
Chloroscombrus chrysurus	0.10 2	0.13	
Trachurus trecae	0.04 4	0.05	
Decapterus rhonchus	0.04 2	0.05	
Total	76.22	99.96	

PROJECT STATION: 52
 DATE:11/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 826
 start stop duration Long E 1311
 TIME :14:51:00 15:21:00 30 (min) Purpose code: 3
 LOG :5414.20 5415.50 1.53 Area code : 2
 FDEPTH: 62 60 GearCond.code:
 BDEPTH: 62 60 Validity code:
 Towing dir: ° Wire out: 300 m Speed: 32 kn*10

Sorted: 57 Kg Total catch: 743.70 CATCH/HOUR: 1487.40

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP.NO.
Brachydeuterus auritus	1240.00 11958	83.87	115
Trachurus trecae	75.00 1150	5.04	116
Pagellus bellottii	56.30 396	3.76	112
Chloroscombrus chrysurus	32.50	2.19	
Trichurus lepturus	30.00	2.02	
Fistularia petimba	15.00	1.01	
Sphyræna guachancho	11.00	0.74	114
Lagocephalus laevigatus	10.00	0.67	
Selene dorsalis	10.00	0.67	
Dentex barnardi	4.00	0.27	113
Zeus faber	2.50	0.17	
Pterothrissus belloci	1.00	0.07	
Sparus caeruleostictus	0.40	0.03	
Total	1487.40	100.01	

PROJECT STATION: 53
 DATE:11/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 827
 start stop duration Long E 1303
 TIME :16:31:00 17:01:00 30 (min) Purpose code: 3
 LOG :5425.20 5426.20 1.59 Area code : 2
 FDEPTH: 102 104 GearCond.code:
 BDEPTH: 102 104 Validity code:
 Towing dir: ° Wire out: 500 m Speed: 31 kn*10

Sorted: 29 Kg Total catch: 204.80 CATCH/HOUR: 409.20

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP.NO.
Trachurus trecae	938.40 9768	82.70	120
Umbra canariensis	25.00	6.11	119
Trichurus lepturus	12.00	2.49	
Dentex angolensis	11.00	2.69	117
Dentex barnardi	5.00	1.22	121
Dentex macrophthalmus	4.00	0.98	118
Branchiostegus semifasciatus	3.40	0.83	
Fistularia petimba	2.60	0.68	
Illex coindetii	2.40	0.59	
Attractoscion aequidens	1.60	0.44	
Pterothrissus belloci	1.20	0.29	
Torpedo torpedo	1.00	0.24	
Pagellus bellottii	0.30	0.20	
Zeus faber	0.40	0.10	
Total	409.20	100.00	

PROJECT STATION: 54
 DATE:11/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 828
 start stop duration Long E 1256
 TIME :18:37:00 19:07:00 30 (min) Purpose code: 3
 LOG :5438.70 5439.60 1.50 Area code : 2
 FDEPTH: 201 199 GearCond.code:
 BDEPTH: 201 199 Validity code:
 Towing dir: 330° Wire out: 800 m Speed: 26 kn*10

Sorted: Kg Total catch: 64.55 CATCH/HOUR: 129.10

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP.NO.
Synagrops microlepis	42.80 1546	33.15	
Pterothrissus belloci	40.00	30.98	
Brotula barbata	12.20	9.45	
OPHICHTHIDAE	7.40 248	5.73	
Merluccius polli	6.60 80	5.11	
Trichurus lepturus	6.00 40	4.65	
Chelidonicichthys capensis	4.00 44	3.10	
Dentex angolensis	2.20 8	1.70	
Parapenaeus longirostris	1.66 182	1.29	
Chlorophthalmus atlanticus	1.60 112	1.24	
Syacium micrurum	1.40 55	1.03	
NETTASTOMATIDAE	1.00 16	0.77	
Nezumia aequalis	0.80 32	0.62	
Micracurina angolensis	0.60 4	0.46	
Todaropsis eblanae	0.40 16	0.31	
Zenopsis conchifer	0.12 8	0.09	
Shrimps, small, non comm.	0.08 124	0.06	
MORIDAE	0.08 24	0.06	
Trachurus trecae	0.08 4	0.06	
Illex coindetii	0.08 4	0.06	
Total	129.10	99.97	

PROJECT STATION: 55
 DATE:11/ 5/91 GEAR TYPE: BT No:1 POSITION:Lat S 828
 start stop duration Long E 1253
 TIME :20:00:00 20:30:00 30 (min) Purpose code: 3
 LOG :5444.60 5445.40 1.50 Area code : 2
 FDEPTH: 310 299 GearCond.code:
 BDEPTH: 310 299 Validity code:
 Towing dir: 340° Wire out:1000 m Speed: 29 kn*10

Sorted: Kg Total catch: 211.19 CATCH/HOUR: 422.38

SPECIES	CATCH/HOUR weight numbers	% OF TOT. C	SAMP.NO.
Merluccius polli	172.20 798	40.77	
Chlorophthalmus atlanticus	155.40 3274	36.79	
Synagrops microlepis	42.00 1448	9.94	
Shrimps, small, non comm.	14.00 6720	3.31	
Pterothrissus belloci	14.00 84	3.31	
Parapenaeus longirostris	6.30 602	1.48	
Diaphus dumerilli	6.30 3150	1.49	
Zenopsis conchifer	5.60 28	1.33	
Laemonema laureysi	4.20 42	0.99	
Solenocera africana	1.40 210	0.33	
Lophius willantii	0.28 14	0.07	
Hymenocephalus italicus	0.28 70	0.07	
Peristedion cataphractum	0.14 28	0.03	
Homierinthe folgori	0.14 14	0.03	
APOGONIDAE	0.14 14	0.03	
Total	422.38	99.98	

PROJECT STATION: 56
 DATE: 12/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 829 Long E 1252
 start stop duration
 TIME :21:40:00 22:10:00 30 (min) Purpose code: 3
 LOG :5452.00 5452.90 1.60 Area code : 2
 FDEPTH: 393 381 GearCond.code:
 BDEPTH: 393 381 Validity code:
 Towing dir: 339° Wire out: 1200 m Speed: 27 km*10

Sorted: 35 Kg Total catch: 770.44 CATCH/HOUR: 1540.88

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Merluccius polli, female	644.40	2024	41.82	126
Nematocarcinus africanus	457.60	128960	29.70	
Merluccius polli, male	352.00	1964	22.84	125
Chaunax pictus	22.00	396	1.43	
Dibranchius atlanticus	22.00	2244	1.43	
Laemonema laureysi	13.20	88	0.86	
Deepwater fish mixture	4.40	792	0.29	
Etmopterus spinax	4.40	308	0.29	
Hymnocephalus italicus	0.44	44	0.03	
Chlorophthalmus atlanticus	0.44	44	0.03	
Total	1520.88		98.72	

PROJECT STATION: 57
 DATE: 12/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 827 Long E 1248
 start stop duration
 TIME :23:10:00 23:45:00 35 (min) Purpose code: 3
 LOG :5457.90 5458.40 1.50 Area code : 2
 FDEPTH: 502 466 GearCond.code:
 BDEPTH: 502 466 Validity code:
 Towing dir: 330° Wire out: 1450 m Speed: 25 km*10

Sorted: 26 Kg Total catch: 138.25 CATCH/HOUR: 237.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Nematocarcinus africanus	137.14	30477	57.86	
Triplophos sp.	38.57	6991	16.27	
MELANOSTOMIATIDAE	18.00	351	7.59	
Merluccius polli, female	12.69	29	5.35	128
Lamprogrammus exultans	6.00	334	2.53	
Merluccius polli, male	4.80	12	2.09	127
Xenodermichthys socialis	4.20	197	1.81	
Chlorophthalmus atlanticus	3.43	60	1.45	
Dibranchius atlanticus	3.43	577	1.45	
Hoplostethus mediterraneus	1.71	77	0.72	
Brosimulus imberbis *	1.71	94	0.72	
Aristeus varidens	0.86	129	0.36	
Xenomystax sp.	0.86	43	0.36	
Trichiurus lepturus	0.86	17	0.36	
Etmopterus spinax	0.86	34	0.36	
Chaunax pictus	0.43	9	0.18	
Varela blackfordi	0.43	9	0.18	
Menichthys scolopacea	0.43	17	0.18	
Malacocephalus occidentalis	0.34	2	0.14	
Laemonema laureysi	0.17	2	0.07	
Ebinania costaecanarie	0.00	9		
Solenocera africana	0.00	9		
Stereomastis sculpta	0.00	17		
Total	237.01		99.97	

PROJECT STATION: 58
 DATE: 13/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 840 Long E 1307
 start stop duration
 TIME :10:00:00 10:30:00 30 (min) Purpose code: 1
 LOG :5562.50 5564.10 1.60 Area code : 2
 FDEPTH: 88 97 GearCond.code:
 BDEPTH: 88 97 Validity code:
 Towing dir: 270° Wire out: 400 m Speed: 29 km*10

Sorted: 38 Kg Total catch: 1601.80 CATCH/HOUR: 3203.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Selene dorsalis	962.80	4346	30.05	131
Brachydeuterus auritus	792.40	4942	24.73	130
Trichiurus lepturus	681.60	2386	21.28	
Trachurus trecae	409.00	6986	12.77	129
Decapterus rhonchus	357.80	512	11.17	
Total	3203.60		100.00	

PROJECT STATION: 59
 DATE: 13/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 839 Long E 1318
 start stop duration
 TIME :12:27:00 12:57:00 30 (min) Purpose code: 3
 LOG :5581.50 5583.00 1.50 Area code : 2
 FDEPTH: 30 39 GearCond.code:
 BDEPTH: 30 39 Validity code:
 Towing dir: 280° Wire out: 150 m Speed: 31 km*10

Sorted: 24 Kg Total catch: 202.81 CATCH/HOUR: 405.62

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Brachydeuterus auritus	329.00	32666	81.11	
Sphyræna guachancho	26.00	74	6.41	132
Galeoides decadactylus	12.00	22	2.96	
Scomberomorus tritor	10.00	4	2.47	
Sardinella maderensis	7.40	40	1.82	134
Pagellus bellottii	7.00	44	1.73	133
Trichiurus lepturus	2.00	42	0.69	
Pseudotolithus senegalensis	2.00	14	0.69	
Pteroscion peli	2.00	126	0.69	
Epinephelus aeneus	1.60	2	0.39	
Selene dorsalis	1.40	56	0.35	
Chloroscombrus chrysurus	1.40	56	0.35	
Sepia officinalis hierredda	1.00	2	0.25	
Penaeus notialis	0.28	28	0.07	
Pegusa lascaris	0.14	14	0.03	
Total	405.62		100.01	

PROJECT STATION: 60
 DATE: 13/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 839 Long E 1314
 start stop duration
 TIME :13:33:00 14:03:00 30 (min) Purpose code: 3
 LOG :5586.50 5588.00 1.50 Area code : 2
 FDEPTH: 56 56 GearCond.code:
 BDEPTH: 56 56 Validity code:
 Towing dir: * Wire out: 300 m Speed: 30 km*10

Sorted: 28 Kg Total catch: 1204.00 CATCH/HOUR: 2408.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Brachydeuterus auritus	1596.00	19850	66.28	139
Trachurus trecae	266.00	6460	11.05	140
Chloroscombrus chrysurus	243.20	3192	10.10	141
Pomadourus jubelini	101.60	176	4.22	135
Sphyræna guachancho	42.00	90	1.74	136
Trichiurus lepturus	40.40	78	1.68	
Pagellus bellottii	30.60	146	1.28	137
Selene dorsalis	30.40	456	1.26	
Galeoides decadactylus	29.80	50	1.24	138
Pomadourus incisus	15.20	76	0.63	
Atractoscion aequidens	6.60	10	0.27	
Pseudotolithus senegalensis	2.20	2	0.09	
Argyrosomus hololepidotus	1.40	2	0.06	
Raja miraletus	1.40	2	0.06	
Dentex barnardi	1.00	4	0.04	
Total	2408.00		100.00	

PROJECT STATION: 61
 DATE: 13/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 842 Long E 1311
 start stop duration
 TIME :15:25:00 15:56:00 31 (min) Purpose code: 3
 LOG :5597.30 5599.10 1.56 Area code : 2
 FDEPTH: 70 73 GearCond.code:
 BDEPTH: 70 73 Validity code:
 Towing dir: 325° Wire out: 350 m Speed: 30 km*10

Sorted: 61 Kg Total catch: 2504.60 CATCH/HOUR: 4947.61

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Brachydeuterus auritus	2383.20	25221	69.79	145
Selene dorsalis	779.61	4339	16.08	146
Trichiurus lepturus	323.61	557	6.68	
Trachurus trecae	290.32	1086	5.99	144
Atractoscion aequidens	38.71	21	0.80	143
Pagellus bellottii	18.19	132	0.38	142
Sepia officinalis hierredda	3.87	2	0.08	
Pterothrissus belloci	3.69	74	0.08	
Decapterus rhonchus	2.93	4	0.06	
Dentex barnardi	2.52	8	0.05	
Lithognathus mormyrus	0.97	2	0.02	
Total	4847.61		100.01	

PROJECT STATION: 62
 DATE: 13/ 5/91 GEAR TYPE: BT No:1 POSITION: Lat S 845 Long E 1309
 start stop duration
 TIME :17:11:00 17:41:00 30 (min) Purpose code: 3
 LOG :5608.90 5610.20 1.50 Area code : 2
 FDEPTH: 76 75 GearCond.code:
 BDEPTH: 76 75 Validity code:
 Towing dir: * Wire out: 350 m Speed: 29 km*10

Sorted: 32 Kg Total catch: 271.26 CATCH/HOUR: 542.52

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Brachydeuterus auritus	324.00	3712	59.72	148
Trichiurus lepturus	128.00	224	23.59	
Trachurus trecae	64.80	1104	11.94	147
Squatina oculata	10.90	2	2.01	
Sepia officinalis hierredda	4.30	2	0.79	
Dentex canariensis	3.30	2	0.61	
Epinephelus aeneus	2.00	2	0.37	
Pterothrissus belloci	1.60	32	0.29	
Pagellus bellottii	1.60	8	0.29	
Umrina canariensis	1.00	2	0.18	
Dentex barnardi	1.70	2	0.13	
Alloteuthis africana	3.16	224	0.03	
Saurida brasiliensis	3.16	48	0.03	
Total	542.52		99.98	

PROJECT STATION: 63
 DATE: 14/ 5/91 GEAR TYPE: PT No:2 POSITION: Lat S 910 Long E 1251
 start stop duration
 TIME :05:26:00 05:47:00 21 (min) Purpose code: 1
 LOG :5726.10 5727.10 1.00 Area code : 2
 FDEPTH: 20 66 GearCond.code:
 BDEPTH: 20 70 Validity code:
 Towing dir: 320° Wire out: 50 m Speed: 31 km*10

Sorted: 4 Kg Total catch: 4.10 CATCH/HOUR: 11.71

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sphyræna guachancho	5.14	6	43.89	152
Sardinella maderensis	3.71	20	31.68	
Sardinella aurita	1.43	6	12.21	150
Selene dorsalis	1.43	9	12.21	151
Sardinella maderensis	0.00			
Total	11.71		95.99	