

Annex I Records of fishing stations

PROJECT STATION: 92
 DATE: 15/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 500
 start stop duration Long E 1123
 TIME :05:52:00 06:22:00 30 (min) Purpose code: 3
 LOG :2673.70 2675.20 1.50 Area code : 1
 FDEPTH: 353 354 GearCond.code:
 BDEPTH: 353 354 Validity code:
 Towing dir: 150° Wire out:1000 m Speed: 30 kn*10
 Sorted: 19 Kg Total catch: 267.00 CATCH/HOUR: 534.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Scorpaena sp.	224.00	6272	41.95	
Merluccius polli	161.00	646	30.15	176
Nematoscarinus africanus	67.20		12.58	
MACROURIDAE	40.60	1260	7.60	
Nezumia aequalis	13.20	140	2.47	
Trichiurus lepturus	6.60	420	1.24	
Trigla lyra	4.80	28	0.90	
Etmopterus spinax	4.80	28	0.90	
Malacocephalus sp.	4.00	84	0.75	
Illex coindetii	3.80	56	0.71	
Lophius sp.	1.20	84	0.22	
Halosaurus ovenii	1.20	28	0.22	
MYCTOPHIDAE	1.00	252	0.19	
Coelorinchus coelorhincus	0.60	28	0.11	
Total	534.00		99.99	

PROJECT STATION: 96
 DATE: 15/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 452
 start stop duration Long E 1135
 TIME :12:45:00 13:15:00 30 (min) Purpose code: 3
 LOG : 703.90 705.40 1.50 Area code : 1
 FDEPTH: 76 72 GearCond.code:
 BDEPTH: 76 72 Validity code:
 Towing dir: 350° Wire out: 250 m Speed: 30 kn*10
 Sorted: 359 Kg Total catch: 465.48 CATCH/HOUR: 930.96

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Trichiurus lepturus	722.80	9456	77.64	
Selene dorsalis	122.60	510	13.17	182
Brachydeuterus auritus	70.20	29126	7.54	
Trachurus sp.	2.96	24	0.43	
Raja miraletus	2.82	4	0.30	
Pagellus bellottii	1.44	10	0.15	
Pseudotolithus typus	1.38	10	0.15	
Brotula barbata	1.18	2	0.13	
Pteroscion peli	1.00	2	0.11	
Torpedo torpedo	0.98	2	0.11	
Miracorvina angolensis	0.90	2	0.10	
Dentex congolensis	0.74	2	0.08	
Parapanaeopsis atlantica	0.42	18	0.05	
Illex coindetii	0.22	2	0.02	
Sepia sp.	0.16	6	0.02	
Citharus linguatula	0.14	2	0.02	
Scomber japonicus	0.02	2		
Total	930.96		100.02	

PROJECT STATION: 93
 DATE: 15/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 500
 start stop duration Long E 1124
 TIME :07:40:00 08:10:00 30 (min) Purpose code: 3
 LOG :2678.60 2680.10 1.50 Area code : 1
 FDEPTH: 258 260 GearCond.code:
 BDEPTH: 258 260 Validity code:
 Towing dir: 330° Wire out: 750 m Speed: 30 kn*10
 Sorted: 54 Kg Total catch: 154.50 CATCH/HOUR: 309.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pterothrissus belloci	65.60	380	21.23	
Merluccius polli	61.20	308	19.81	178
Zenopsis conchifer	45.80	72	14.82	
Trichiurus lepturus	43.80	140	14.17	
Synagrops microlepis	38.60	1782	12.49	
Brotula barbata	16.00	10	5.18	
MYCTOPHIDAE	13.00	5144	4.21	
Parapanaeus longirostris	10.00	1054	3.24	177
Illex coindetii	5.60	72	1.81	
Pamulirus argus	2.20	38	0.71	
Sepia sp.	1.60	94	0.52	
Nematoscarinus africanus	1.40		0.45	
Aulopus cadenati	1.20	94	0.39	
CONGRIDAE	0.80	22	0.26	
Pentheroscion mbizi	0.80	4	0.26	
Chlorophthalmus atlanticus	0.60	12	0.19	
Coelorinchus coelorhincus	0.40	4	0.13	
PORTUNIDAE	0.40	4	0.13	
Total	309.00		100.00	

PROJECT STATION: 97
 DATE: 15/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 441
 start stop duration Long E 1142
 TIME :15:00:00 15:30:00 30 (min) Purpose code: 3
 LOG : 719.90 721.50 1.60 Area code : 1
 FDEPTH: 25 23 GearCond.code:
 BDEPTH: 25 23 Validity code:
 Towing dir: 325° Wire out: 100 m Speed: 32 kn*10
 Sorted: 29 Kg Total catch: 146.50 CATCH/HOUR: 293.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Brachydeuterus auritus	109.00	520	37.20	184
Trichiurus lepturus	55.00	1180	18.77	
S H R I M P S	40.00		13.65	
Pteroscion peli	19.00	600	6.48	
Ilisha africana	17.20	230	5.87	185
Pentanemus quinquarius	15.80	520	5.39	
Pseudotolithus typus	14.40	380	4.91	
SOLEIDAE	9.20	90	3.14	
Parapanaeopsis atlantica	9.00	876	3.07	183
Sepia sp.	2.70	80	0.92	
MURAENIDAE	1.00	10	0.34	
Chloroscombrus chrysurus	0.70	10	0.24	
Total	293.00		99.98	

PROJECT STATION: 94
 DATE: 15/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 459
 start stop duration Long E 1124
 TIME :08:58:00 09:28:00 30 (min) Purpose code: 3
 LOG :2682.80 2684.30 1.50 Area code : 1
 FDEPTH: 156 159 GearCond.code:
 BDEPTH: 156 159 Validity code:
 Towing dir: 145° Wire out: 450 m Speed: 30 kn*10
 Sorted: 48 Kg Total catch: 47.96 CATCH/HOUR: 95.92

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Spicara alta	29.10	32	30.34	
Dentex angolensis	28.90	96	30.13	180
Pentheroscion mbizi	21.90	142	22.83	179
Illex coindetii	6.84	154	7.13	
Zenopsis conchifer	5.40	14	5.63	
Branchiostegus semifasciatus	1.76	2	1.83	
Trichiurus lepturus	1.74	16	1.81	
Uranoscopus cadenati	0.50	2	0.52	
Zeus faber	0.36	2	0.38	
Total	96.50		100.60	

PROJECT STATION: 98
 DATE: 15/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 436
 start stop duration Long E 1137
 TIME :16:10:00 16:40:00 30 (min) Purpose code: 3
 LOG : 726.70 728.40 1.70 Area code : 1
 FDEPTH: 23 23 GearCond.code:
 BDEPTH: 23 23 Validity code:
 Towing dir: 310° Wire out: 100 m Speed: 34 kn*10
 Sorted: 24 Kg Total catch: 120.20 CATCH/HOUR: 240.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Trichiurus lepturus	102.50	1974	42.64	
Brachydeuterus auritus	87.00	400	36.19	186
Ilisha africana	18.80	460	7.82	187
Parapanaeopsis atlantica	7.80	1070	3.24	188
S H R I M P S	6.00		2.50	
Pseudotolithus typus	6.00	180	2.50	
Pentanemus quinquarius	4.30	190	1.79	
Pentheroscion mbizi	3.70	200	1.54	
Sepia sp.	2.50	70	1.04	
Drepane africana	0.70	20	0.29	
Galeoides decadactylus	0.60	30	0.25	
Cynoglossus monodi	0.50	10	0.21	
Total	240.40		100.01	

PROJECT STATION: 95
 DATE: 15/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 457
 start stop duration Long E 1127
 TIME :10:24:00 10:54:00 30 (min) Purpose code: 3
 LOG :2688.80 2690.30 1.50 Area code : 1
 FDEPTH: 110 109 GearCond.code:
 BDEPTH: 110 109 Validity code:
 Towing dir: 360° Wire out: 350 m Speed: 30 kn*10
 Sorted: 62 Kg Total catch: 61.52 CATCH/HOUR: 123.04

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Trichiurus lepturus	64.00	66	52.02	
Dentex angolensis	40.70	168	33.08	181
Illex coindetii	7.98	320	6.49	
Dentex barnardi	5.22	4	4.24	
Dentex gibbosus	2.10	4	1.71	
Zenopsis conchifer	1.36	2	1.11	
Raja miraletus	1.14	2	0.93	
Lepidotrigla cadmani	0.30	4	0.24	
Citharus linguatula	0.24	4	0.20	
Total	123.04		100.02	

PROJECT STATION: 99
 DATE: 15/ 8/95 GEAR TYPE: PT No:2 POSITION: Lat S 434
 start stop duration Long E 1134
 TIME :17:51:00 18:21:00 30 (min) Purpose code: 1
 LOG :2734.00 2735.60 1.60 Area code : 1
 FDEPTH: 0 0 GearCond.code:
 BDEPTH: 25 34 Validity code:
 Towing dir: 240° Wire out: 100 m Speed: 32 kn*10
 Sorted: 27 Kg Total catch: 1021.85 CATCH/HOUR: 2043.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Sardinella maderensis	1473.50	16976	72.10	190
Brachydeuterus auritus	221.20	5180	10.82	
SQUALIDAE	160.00	2	7.83	
Trichiurus lepturus	89.60	2310	4.38	
Ilisha africana	77.70	1820	3.80	189
Pentheroscion mbizi	9.80	140	0.48	
Sarda sarda	7.00	70	0.34	
Sepia sp.	4.90	70	0.24	
Total	2043.70		99.99	

PROJECT STATION: 100
 DATE:16/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 440 Long E 1107
 start stop duration
 TIME :05:47:00 06:17:00 30 (min) Purpose code: 3
 LOG :2786.00 2785.50 1.50 Area code : 1
 FDEPTH: 367 346 GearCond.code:
 BDEPTH: 367 346 Validity code:
 Towing dir: 326° Wire out:1050 m Speed: 30 kn*10

Sorted: 19 Kg Total catch: 186.60 CATCH/HOUR: 373.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Nematocarcinus africanus	126.00		33.76	
Setarches guentheri	122.00	2986	32.69	
Merluccius polli	106.00	520	28.40	191
Trichiurus lepturus	7.00	80	1.88	
Malacocephalus occidentalis	3.00	40	0.80	
Illex coindetii	3.00	40	0.80	
MACROURIDAE	2.80	80	0.75	
Chlorophthalmus atlanticus	1.80	20	0.48	
Coelorinchus coelorhincus	1.00	20	0.27	
Aristeus varidens	0.40	20	0.11	
Parapenaeus longirostris	0.20	40	0.05	
Total	373.20		99.99	

PROJECT STATION: 101
 DATE:16/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 439 Long E 1107
 start stop duration
 TIME :07:19:00 07:49:00 30 (min) Purpose code: 3
 LOG :2789.90 2791.60 1.70 Area code : 1
 FDEPTH: 361 256 GearCond.code:
 BDEPTH: 361 256 Validity code:
 Towing dir: 130° Wire out: 750 m Speed: 34 kn*10

Sorted: 33 Kg Total catch: 114.30 CATCH/HOUR: 228.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Zenopsis conchifer	44.80	42	19.60	
Synagrops microlepis	42.70	178	18.68	
Illex coindetii	35.22	690	15.41	
Aulopus cadenati	34.30	4944	15.00	
Trichiurus lepturus	27.66	120	12.10	
Pterothrissus bellocci	23.80	204	10.41	
Merluccius polli	7.22	50	3.16	
Sepia sp.	6.58	32	2.88	
Parapenaeus longirostris	6.24	1022	2.73	192
Peristedion cataphractum	0.08	8	0.03	
Total	228.60		100.00	

PROJECT STATION: 102
 DATE:16/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 439 Long E 1108
 start stop duration
 TIME :08:24:00 08:54:00 30 (min) Purpose code: 3
 LOG :2793.50 2794.70 1.20 Area code : 1
 FDEPTH: 165 165 GearCond.code:
 BDEPTH: 165 165 Validity code:
 Towing dir: 310° Wire out: 510 m Speed: 24 kn*10

Sorted: 33 Kg Total catch: 118.70 CATCH/HOUR: 237.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Trichiurus lepturus	108.00	180	45.49	
Trachurus. Juveniles	61.00	50020	25.70	
Zenopsis conchifer	28.30	20	11.92	
Illex coindetii	16.80	658	7.08	
Spicara alta	12.16	120	5.12	
Dentex angolensis	11.04	32	4.65	193
Sepia sp.	0.10	20	0.04	
Total	237.40		100.00	

PROJECT STATION: 103
 DATE:16/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 438 Long E 1108
 start stop duration
 TIME :09:40:00 10:10:00 30 (min) Purpose code: 3
 LOG :2797.50 2799.10 1.60 Area code : 1
 FDEPTH: 123 124 GearCond.code:
 BDEPTH: 123 124 Validity code:
 Towing dir: 140° Wire out: 370 m Speed: 32 kn*10

Sorted: 24 Kg Total catch: 23.46 CATCH/HOUR: 46.92

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Dentex angolensis	19.90	86	42.41	194
Trichiurus lepturus	12.10	12	25.79	
Illex sp.	9.58	668	20.42	
Dentex gibbosus	3.84	4	8.18	
Dentex congoensis	0.76	2	1.62	
Zeus faber	0.44	2	0.94	
Chaetodon hoefleri	0.30	2	0.64	
Total	46.92		100.00	

PROJECT STATION: 104
 DATE:16/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 430 Long E 1120
 start stop duration
 TIME :12:05:00 12:35:00 30 (min) Purpose code: 3
 LOG :815.30 816.70 1.40 Area code : 1
 FDEPTH: 67 62 GearCond.code:
 BDEPTH: 67 62 Validity code:
 Towing dir: * Wire out: 240 m Speed: 28 kn*10

Sorted: 48 Kg Total catch: 48.59 CATCH/HOUR: 97.18

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Trichiurus lepturus	47.30	178	48.67	
Pentheroscion mbizi	9.80	66	10.08	
Brotula barbata	8.90	16	9.16	
Trachurus trecae	5.00	10	5.15	
Stromateus fiatola	4.30	6	4.42	
Uranoscopus albesca	3.82	44	3.93	
SOLEIDAE	3.58	50	3.68	
Brachydeuterus auritus	2.90	310	2.98	
Pseudolithus typus	2.40	2	2.47	
Atractoscion aequidens	2.26	2	2.33	
Parapenaeopsis atlantica	1.64	56	1.69	195
Torpedo torpedo	1.56	4	1.61	
Umbrina canariensis	0.94	4	0.97	
Pagellus bellottii	0.66	6	0.68	
Pseudolithus senegalensis	0.64	2	0.66	
Dentex angolensis	0.56	2	0.58	
Scorpaena normani	0.50	22	0.51	
Selene dorsalis	0.26	2	0.27	
Pseudupeneus prayensis	0.12	4	0.12	
Fistularia petimba	0.02	2	0.02	
Zeus faber	0.02	2	0.02	
Total	97.18		100.00	

PROJECT STATION: 105
 DATE:16/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 425 Long E 1123
 start stop duration
 TIME :13:30:00 14:00:00 30 (min) Purpose code: 3
 LOG :822.80 824.30 1.50 Area code : 1
 FDEPTH: 37 33 GearCond.code:
 BDEPTH: 37 33 Validity code:
 Towing dir: 360° Wire out: 160 m Speed: 30 kn*10

Sorted: 67 Kg Total catch: 418.80 CATCH/HOUR: 837.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Brachydeuterus auritus	267.00	3596	31.88	
Trachurus trecae	177.00	218	21.13	196
Arius parkii	141.00	120	16.83	
Trichiurus lepturus	97.50	42	11.94	
Pteroscion pelli	48.00	368	5.73	
Argyrosomus regius	38.80	2	4.63	
Pseudolithus typus	32.00	16	3.82	
Galeoides decadactylus	13.50	30	1.61	
Pomadasys incisus	7.20	30	0.86	
Pentaneus quinquarius	6.60	120	0.79	
Ilisha africana	4.50	60	0.54	
Parapenaeopsis atlantica	3.00	120	0.36	
Cynoglossus senegalensis	1.50	30	0.18	
Total	837.60		100.00	

PROJECT STATION: 106
 DATE:16/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 423 Long E 1125
 start stop duration
 TIME :14:40:00 15:10:00 30 (min) Purpose code: 3
 LOG :827.40 829.00 1.60 Area code : 1
 FDEPTH: 22 19 GearCond.code:
 BDEPTH: 22 19 Validity code:
 Towing dir: 340° Wire out: 140 m Speed: 32 kn*10

Sorted: 46 Kg Total catch: 388.62 CATCH/HOUR: 777.24

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pomadasys jubelini	162.40	280	20.89	
Trichiurus lepturus	123.20	3696	15.85	
Ilisha africana	111.16	2442	14.30	
Parapenaeopsis atlantica	105.00	10500	13.51	197
Brachydeuterus auritus	72.24	3278	9.29	
S H A R K S	40.00	20	5.15	
S H R I M P S	31.92	30	4.11	
CYNOGLOSSIDAE	30.52	112	3.93	
Dasyatis margarita	21.00	28	2.70	
Pseudolithus typus	18.20	364	2.34	
MURAEINIDAE	15.96	84	2.05	
Pteroscion pelli	15.12	812	1.95	
Pentaneus quinquarius	11.76	252	1.51	
Arius parkii	9.80	112	1.26	
Sepia sp.	4.48	252	0.58	
Selene dorsalis	3.64	56	0.47	
Galeoides decadactylus	0.56	28	0.07	
Sardinella maderensis	0.28	28	0.04	
Total	777.24		100.00	

PROJECT STATION: 107
 DATE:16/ 8/95 GEAR TYPE: PT No:2 POSITION:Lat S 504 Long E 1120
 start stop duration
 TIME :20:45:00 21:00:00 15 (min) Purpose code: 1
 LOG :2865.00 2865.90 0.90 Area code : 1
 FDEPTH: 0 0 GearCond.code:
 BDEPTH: 23 23 Validity code:
 Towing dir: 140° Wire out: 100 m Speed: 36 kn*10

Sorted: 36 Kg Total catch: 712.20 CATCH/HOUR: 2848.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Sardinella maderensis	2484.00	23000	87.19	198
Brachydeuterus auritus	188.80	7616	6.63	
Pentheroscion mbizi	77.60	1120	2.72	
Trichiurus lepturus	71.20	1120	2.56	
Ilisha africana	27.20	720	0.95	
Total	2848.80		99.99	

PROJECT STATION: 108
 DATE:17/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 427 Long E 1052
 start stop duration
 TIME :05:50:00 06:10:00 20 (min) Purpose code: 3
 LOG :2930.20 2931.10 1.10 Area code : 1
 FDEPTH: 297 242 GearCond.code:
 BDEPTH: 297 242 Validity code:
 Towing dir: 350° Wire out: 800 m Speed: 33 kn*10

Sorted: 53 Kg Total catch: 93.28 CATCH/HOUR: 279.84

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Merluccius polli	100.56	639	35.93	199
Trichiurus lepturus	49.62	171	17.73	
Synagrops microlepis	34.65	258	12.38	
Pterothrissus bellocci	30.45	162	10.88	
Aulopus cadenati	20.43	333	7.30	
Illex coindetii	19.95	153	7.13	
Arius parkii	5.46	6	1.95	
Aristeus varidens	5.01	426	1.79	200
Sepia sp.	2.94	198	1.05	
Coelorinchus coelorhincus	2.79	51	1.00	
Zenopsis conchifer	2.52	6	0.90	
Malacocephalus occidentalis	2.49	36	0.89	
MACROURIDAE	1.80	51	0.64	
CONGRIDAE	0.63	12	0.23	
Scorpaena normani	0.48	6	0.17	
Cyttopsis roseus	0.06	6	0.02	
Total	279.84		99.99	

PROJECT STATION: 109
 DATE: 17/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 424 Long E 1044
 start stop duration
 TIME : 07:28:00 07:58:00 30 (min) Purpose code: 3
 LOG : 2936.60 2958.20 1.60 Area code : 1
 FDEPTH: 174 177 GearCond.code:
 BDEPTH: 174 177 Validity code:
 Towing dir: 130° Wire out: 510 m Speed: 32 kn*10
 Sorted: 29 Kg Total catch: 588.56 CATCH/HOUR: 1177.12

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight numbers		
Trichiurus lepturus	1089.60	1296	92.56
Illex coindetii	42.72	1200	3.63
Carangidae juveniles	31.20	24960	2.65
Dentex angolensis	7.44	18	0.63
Aulopus cadenati	2.88	48	0.24
Trachurus trecae	1.08	2	0.09
Citharus linguatula	0.96	48	0.08
Zeus faber	0.68	2	0.06
Dentex congongensis	0.42	2	0.04
Spicara alta	0.14	2	0.01
Total	1177.12	99.99	

PROJECT STATION: 110
 DATE: 17/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 423 Long E 1050
 start stop duration
 TIME : 08:40:00 09:10:00 30 (min) Purpose code: 3
 LOG : 2940.50 2942.10 1.60 Area code : 1
 FDEPTH: 119 115 GearCond.code:
 BDEPTH: 119 115 Validity code:
 Towing dir: 320° Wire out: 380 m Speed: 32 kn*10
 Sorted: 46 Kg Total catch: 46.25 CATCH/HOUR: 92.50

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight numbers		
Illex coindetii	24.50	1224	26.49
Spicara alta	22.70	198	24.54
Dentex angolensis	17.80	134	19.24
Heptranchias perlo	8.72	2	9.43
Sarda sarda	4.94	2	5.34
Trichiurus lepturus	3.70	8	4.00
Ariomma bondi	2.68	42	2.90
Dentex congongensis	2.54	50	2.75
Branchiostegus semifasciatus	1.82	2	1.97
Saurida brasiliensis	1.12	186	1.21
Dentex gibbosus	0.56	2	0.61
Pagellus bellottii	0.46	6	0.50
Sepia officinalis hierredda	0.42	6	0.45
Trachurus trecae	0.30	6	0.32
Lepidotrigla cadmani	0.16	2	0.17
Chelidonichthys lucerna	0.08	2	0.09
Total	92.50	100.01	

PROJECT STATION: 111
 DATE: 17/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 413 Long E 1100
 start stop duration
 TIME : 11:00:00 11:30:00 30 (min) Purpose code: 3
 LOG : 958.30 960.00 1.70 Area code : 1
 FDEPTH: 75 68 GearCond.code:
 BDEPTH: 75 68 Validity code:
 Towing dir: 20° Wire out: 300 m Speed: 34 kn*10
 Sorted: 56 Kg Total catch: 166.58 CATCH/HOUR: 333.16

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight numbers		
Trichiurus lepturus	81.00	3804	24.31
Epinephelus goreensis	43.50	6	13.06
Brotula barbata	42.00	140	12.61
Trachurus, Juveniles	29.50	60	8.85
Brachydeuterus auritus	29.00	3400	8.70
Dentex congongensis	15.90	70	4.77
Dentex canariensis	10.50	20	3.45
Uranoscopus cadenati	10.60	110	3.18
Pagellus bellottii	8.80	50	2.64
CYNOGLOSSIDAE	8.50	110	2.55
Citharus linguatula	7.50	220	2.25
Pteroscion sp.	7.40	200	2.22
Umbrina canariensis	7.26	26	2.18
Scorpaena noronhai	5.20	210	1.56
Stromateus fiatola	5.30	10	1.53
Parapenaeopsis atlantica	4.00	80	1.20
S H R I M P S	3.50	1.05	
Zeus faber	2.40	10	0.72
Aulopus cadenati	2.30	80	0.69
Torpedo torpedo	2.20	10	0.66
Chaetodon hoefleri	1.70	10	0.51
Lepidotrigla cadmani	1.50	10	0.45
Ariomma bondi	0.80	10	0.24
Trigla lyra	0.70	10	0.21
Pseudupeneus prayensis	0.60	20	0.18
Merluccius polli	0.50	20	0.15
Squilla mantis	0.10	10	0.03
Lophius vaillanti	0.10	10	0.03
Total	333.16	99.98	

PROJECT STATION: 112
 DATE: 17/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 409 Long E 1104
 start stop duration
 TIME : 12:20:00 12:50:00 30 (min) Purpose code: 3
 LOG : 965.80 967.20 1.40 Area code : 1
 FDEPTH: 39 36 GearCond.code:
 BDEPTH: 39 36 Validity code:
 Towing dir: 360° Wire out: 150 m Speed: 28 kn*10
 Sorted: 77 Kg Total catch: 443.69 CATCH/HOUR: 887.38

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight numbers		
Brachydeuterus auritus	474.76	5760	53.50
Pseudotolithus typus	140.26	168	15.81
Trichiurus lepturus	39.30	172	4.43
Trachurus trecae	39.00	90	4.39
Dentex angolensis	29.70	46	3.35
Umbrina canariensis	28.20	60	3.18
Pteroscion peli	22.50	256	2.54
Pomadasy peroteti	21.50	16	2.42
Plectorhynchus mediterraneus	20.56	16	2.32
Pomadasy incisus	16.66	76	1.88
MURAENIDAE	16.00	10	1.80
SQUILLIDAE	14.00	8	1.58
Epinephelus goreensis	11.50	2	1.30
Raja sp.	6.06	16	0.68
Selene dorsalis	3.46	30	0.39
Pentanemus quinquarius	3.16	46	0.36
Chaetodon hoefleri	0.76	16	0.09
Total	887.38	100.02	

PROJECT STATION: 113
 DATE: 17/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 405 Long E 1108
 start stop duration
 TIME : 13:50:00 14:20:00 30 (min) Purpose code: 3
 LOG : 974.00 975.70 1.70 Area code : 1
 FDEPTH: 18 19 GearCond.code:
 BDEPTH: 18 19 Validity code:
 Towing dir: 305° Wire out: 150 m Speed: 34 kn*10
 Sorted: 30 Kg Total catch: 433.57 CATCH/HOUR: 867.14

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight numbers		
Chloroscombrus chrysurus	582.00	14382	67.12
Trichiurus lepturus	51.00	660	5.88
Pomadasy jubelini	40.50	450	4.67
Sphyræna guachancho	30.00	30	3.46
Ilisha africana	29.40	720	3.39
S H R I M P S	27.00		3.11
Brachydeuterus auritus	25.80	900	2.98
Pentanemus quinquarius	20.40	630	2.35
Sardinella maderensis	12.30	450	1.42
Pseudotolithus typus	12.30	390	1.42
Pteroscion peli	11.10	270	1.28
Parapenaeopsis atlantica	9.90	690	1.14
Sepia officinalis hierredda	9.00	300	1.04
Ephippion guttifer	3.74	2	0.43
Selene dorsalis	2.70	30	0.31
Total	867.14	100.00	

PROJECT STATION: 114
 DATE: 17/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 401 Long E 1058
 start stop duration
 TIME : 15:40:00 16:10:00 30 (min) Purpose code: 3
 LOG : 987.20 988.90 1.70 Area code : 2
 FDEPTH: 34 33 GearCond.code:
 BDEPTH: 34 33 Validity code:
 Towing dir: 320° Wire out: 180 m Speed: 34 kn*10
 Sorted: 40 Kg Total catch: 196.48 CATCH/HOUR: 392.96

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight numbers		
Brachydeuterus auritus	103.74	1630	26.40
Arius parkii	61.60	28	15.68
Squalus megalops	42.00	42	10.69
Pseudotolithus typus	40.60	262	10.33
Trichiurus lepturus	27.30	770	6.95
Pteroscion peli	22.96	630	5.84
S H R I M P S	21.00		5.34
Pomadasy incisus	18.48	70	4.70
Caranx hippos	14.10	2	3.59
Pentanemus quinquarius	10.92	238	2.78
Galeoides decadactylus	10.50	28	2.67
MURAENIDAE	8.00	10	2.04
Raja miraletus	4.06	14	1.03
Parapenaeopsis atlantica	3.50	476	0.89
Selene dorsalis	2.94	28	0.75
Sepia officinalis hierredda	1.26	42	0.32
Total	392.96	100.00	

PROJECT STATION: 115
 DATE: 17/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 402 Long E 1052
 start stop duration
 TIME : 16:55:00 17:25:00 30 (min) Purpose code: 3
 LOG : 2994.80 2996.40 1.60 Area code : 2
 FDEPTH: 59 55 GearCond.code:
 BDEPTH: 59 55 Validity code:
 Towing dir: 340° Wire out: 220 m Speed: 30 kn*10
 Sorted: 27 Kg Total catch: 92.91 CATCH/HOUR: 185.82

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight numbers		
Brachydeuterus auritus	73.90	258	39.72
Pentheroscion mbizi	25.22	168	14.11
MURAENIDAE	24.00	8	12.92
Pomadasy incisus	12.90	54	6.94
Pagellus bellottii	11.10	48	5.97
Trichiurus lepturus	9.30	192	5.00
Aulopus cadenati	7.08	324	3.81
Parapenaeopsis atlantica	6.96	252	3.75
Brotula barbata	4.62	18	2.49
Cynoglossus sp.	3.18	54	1.71
Citharus linguatula	1.50	30	0.81
Torpedo torpedo	1.38	42	0.74
Umbrina canariensis	1.14	6	0.61
Trigla lyra	1.02	6	0.55
Trachurus trecae	0.96	6	0.52
CONGRIDAE	0.30	36	0.16
Pseudupeneus prayensis	0.24	6	0.13
Squilla mantis	0.12	66	0.06
Total	185.82	100.00	

PROJECT STATION: 116
 DATE: 17/ 8/95 GEAR TYPE: PT No:2 POSITION: Lat S 406 Long E 1044
 start stop duration
 TIME : 18:59:00 19:29:00 30 (min) Purpose code: 1
 LOG : 3009.20 3011.00 1.80 Area code : 2
 FDEPTH: 5 5 GearCond.code:
 BDEPTH: 100 94 Validity code:
 Towing dir: 56° Wire out: 100 m Speed: 36 kn*10
 Sorted: 120 Kg Total catch: 119.54 CATCH/HOUR: 239.08

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight numbers		
Trachurus trecae	120.60	288	50.44
Sardinella aurita	62.20	272	26.02
Trichiurus lepturus	24.20	66	10.12
Sardinella maderensis	21.30	110	8.91
Brachydeuterus auritus	7.00	3562	2.93
Selene dorsalis	1.58	8	0.66
Scomber japonicus	1.14	6	0.48
Stromateus fiatola	1.00	2	0.42
Sepia sp.	0.06	8	0.03
Total	239.08	100.01	

PROJECT STATION: 117
 DATE:18/ 8/95 GEAR TYPE: PT No:2 POSITION:Lat S 358 Long E 1054
 start stop duration
 TIME :01:20:00 01:50:00 30 (min) Purpose code: 1
 LOG : 72.40 73.90 1.50 Area code : 2
 FDEPTH: 5 5 GearCond.code:
 BDEPTH: 36 38 Validity code:
 Towing dir: 146° Wire out: 100 m Speed: 30 kn*10

Sorted: 33 Kg Total catch: 595.26 CATCH/HOUR: 1190.52

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Sardinella aurita	1058.40	88200	88.90	212
Aleocis alexandrinus	70.20	36	5.90	
Brachydeuterus auritus	33.48	612	2.81	
Trichiurus lepturus	20.88	396	1.75	
Sardinella aurita	3.96	36	0.33	
Ilisha africana	3.60	36	0.30	
Total	1190.52		99.99	

PROJECT STATION: 118
 DATE:18/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 342 Long E 1051
 start stop duration
 TIME :03:54:00 04:24:00 30 (min) Purpose code: 3
 LOG :3102.30 3104.10 1.80 Area code : 2
 FDEPTH: 24 24 GearCond.code:
 BDEPTH: 24 24 Validity code:
 Towing dir: 322° Wire out: 150 m Speed: 36 kn*10

Sorted: 91 Kg Total catch: 182.91 CATCH/HOUR: 365.82

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Pseudolithus typus	51.40	52	14.05	213
Pentheroscion mbizi	48.50	1008	13.26	
Ilisha africana	46.40	3050	12.68	
Trichiurus lepturus	44.50	460	12.16	
Squalus megalops	42.70	26	11.67	
Pomadourus jubelini	42.26	90	11.55	
Galeoides decadactylus	23.18	120	6.34	
Shrimps, small, non comm.	14.50		3.96	
Brachydeuterus auritus	13.10	460	3.58	
Pomadourus incisus	8.70	30	2.38	
Arius parkii	6.66	10	1.82	
Pentapenaeus quinquecaris	5.78	250	1.58	
Parapenaeopsis atlantica	4.50	830	1.23	214
Drepane africana	2.78	2	0.76	
Citharus linguatula	2.60	40	0.71	
Sepia officinalis hierredda	2.60	50	0.71	
Chloroscombrus chrysurus	2.00	60	0.55	
Balistes capricus	1.08	2	0.30	
Stromateus fiatola	0.98	4	0.27	
Penaeus kerathurus	0.60	10	0.16	
Aulopus cadenati	0.50	20	0.14	
Sardinella aurita	0.50	50	0.14	
Total	365.82		100.00	

PROJECT STATION: 119
 DATE:18/ 8/95 GEAR TYPE: PT No:2 POSITION:Lat S 338 Long E 1044
 start stop duration
 TIME :07:42:00 08:12:00 30 (min) Purpose code: 1
 LOG :3114.10 3115.60 1.50 Area code : 2
 FDEPTH: 0 0 GearCond.code:
 BDEPTH: 29 26 Validity code:
 Towing dir: 50° Wire out: 80 m Speed: 30 kn*10

Sorted: 24 Kg Total catch: 24.00 CATCH/HOUR: 48.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Sardinella aurita	47.40	2634	98.75	215
Sardinella maderensis	0.34	2	0.71	
Total	47.74		99.46	

PROJECT STATION: 120
 DATE:18/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 349 Long E 1034
 start stop duration
 TIME :10:40:00 10:50:00 10 (min) Purpose code: 3
 LOG :3135.60 3136.10 0.50 Area code : 2
 FDEPTH: 72 72 GearCond.code:
 BDEPTH: 72 72 Validity code:
 Towing dir: 150° Wire out: 300 m Speed: 30 kn*10

Sorted: 46 Kg Total catch: 279.32 CATCH/HOUR: 1675.92

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Brachydeuterus auritus	905.10	48	54.01	
Pseudolithus senegalensis	252.00	12	15.04	
Umbrina canariensis	138.60	276	8.27	216
Dentex congoensis	85.92	126	5.13	
Squalus megalops	62.40	42	3.72	
Trichiurus lepturus	47.70	126	2.85	
Dentex gibbosus	34.58	108	2.07	
Trachurus trecae	33.00	108	1.97	
Parapristipoma humile	18.90	24	1.13	
Sardinella aurita	14.52	66	0.87	
Chaetodon hoefleri	13.68	84	0.82	
Pagellus bellottii	12.60	108	0.75	
Dentex canariensis	12.42	24	0.74	
Priacanthus arenatus	10.92	42	0.65	
Spondyliosoma cantharus	10.50	84	0.63	
Pseudupeneus prayensis	9.66	42	0.58	
Galeoides decadactylus	8.22	24	0.49	
Sargocentron hastatus	2.76	24	0.16	
Boops boops	1.26	24	0.08	
Chaetodon marcellae	1.08	24	0.06	
Total	1675.92		100.02	

PROJECT STATION: 121
 DATE:18/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 358 Long E 1023
 start stop duration
 TIME :14:18:00 14:48:00 30 (min) Purpose code: 3
 LOG : 156.30 158.10 1.80 Area code : 2
 FDEPTH: 121 110 GearCond.code:
 BDEPTH: 121 110 Validity code:
 Towing dir: 320° Wire out: 400 m Speed: 30 kn*10

Sorted: 116 Kg Total catch: 116.81 CATCH/HOUR: 233.62

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Umbrina canariensis	80.30	222	34.37	217
Dentex congoensis	68.10	434	29.15	218
Squatina oculata	16.40	12	7.02	
Anthias anthias	11.04	102	4.73	
Squalus megalops	10.00	2	4.28	
Sarda sarda	9.10	6	3.90	
Spicara alta	8.34	102	3.57	
Illex coindetii	7.72	512	3.30	
Ariomma bondi	6.26	150	2.68	
Trichiurus lepturus	6.00	6	2.57	
Pseudolithus senegalensis	3.10	2	1.33	
Zeus faber	3.04	4	1.30	
Dentex angolensis	2.76	18	1.18	
Dentex gibbosus	1.40	2	0.60	
Boops boops	0.06	2	0.03	
Total	233.62		100.01	

PROJECT STATION: 122
 DATE:18/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 356 Long E 1020
 start stop duration
 TIME :16:05:00 16:35:00 30 (min) Purpose code: 3
 LOG : 162.00 163.70 1.70 Area code : 2
 FDEPTH: 173 184 GearCond.code:
 BDEPTH: 173 184 Validity code:
 Towing dir: 310° Wire out: 550 m Speed: 30 kn*10

Sorted: 44 Kg Total catch: 161.14 CATCH/HOUR: 322.28

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
MYCTOPHIDAE	99.50	60496	30.87	
Chlorophthalmus atlanticus	78.50	2376	24.36	
C E P H A L O P O D A	38.80	1108	12.04	
Trichiurus lepturus	22.50	40	6.98	
Dentex angolensis	19.10	158	5.93	220
Squalus megalops	14.50	10	4.50	
Synagrops microlepis	13.80	470	4.28	
Zeus faber	7.60	20	2.36	
Dentex congoensis	5.94	74	1.84	219
Antigonia capros	4.64	132	1.44	
Ariomma bondi	4.50	400	1.40	
Aulopus cadenati	4.10	50	1.27	
Miracorvina angolensis	3.30	10	1.02	
Pteroscion pelli	3.20	20	0.99	
Sepia officinalis hierredda	0.80	40	0.25	
Citharus linguatula	0.80	20	0.25	
Zenion sp.	0.30	10	0.09	
Trigla lyra	0.20	10	0.06	
Spicara alta	0.20	2	0.06	
Total	322.28		99.99	

PROJECT STATION: 123
 DATE:18/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 354 Long E 1015
 start stop duration
 TIME :17:26:00 17:56:00 30 (min) Purpose code: 3
 LOG :3168.30 3169.80 1.50 Area code : 2
 FDEPTH: 357 346 GearCond.code:
 BDEPTH: 357 346 Validity code:
 Towing dir: 320° Wire out:1000 m Speed: 3 kn*10

Sorted: 54 Kg Total catch: 97.88 CATCH/HOUR: 195.76

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Chlorophthalmus atlanticus	67.76	1040	34.61	
Squalus megalops	45.50	10	23.24	
Merluccius pollii	29.26	146	14.95	221
Setarches guentheri	26.60	872	13.59	
Etmopterus spinax	4.80	80	2.45	
MACROURIDAE	2.86	84	1.46	
S H R I M P S	2.70		1.38	
MYCTOPHIDAE	2.70		1.38	
Parapenaeus longirostris	2.36	356	1.21	222
Epigonus telescopus	2.16	34	1.10	
Illex coindetii	1.80	20	0.92	
CYNOGLOSSIDAE	1.76	26	0.90	
MURAENIDAE	1.60	2	0.82	
Malacocephalus occidentalis	1.36	30	0.69	
Coelorinchus coelorhincus	0.96	26	0.49	
Hoplostethus cadenati	0.76	10	0.39	
Cyttopsis roseus	0.66	6	0.34	
SQUALIDAE	0.26	6	0.13	
Total	195.86		100.05	

PROJECT STATION: 124
 DATE:19/ 8/95 GEAR TYPE: BT No:8 POSITION:Lat S 333 Long E 956
 start stop duration
 TIME :05:43:00 06:13:00 30 (min) Purpose code: 3
 LOG :3273.90 3275.40 1.50 Area code : 2
 FDEPTH: 239 253 GearCond.code:
 BDEPTH: 239 253 Validity code:
 Towing dir: 146° Wire out: 750 m Speed: 30 kn*10

Sorted: 33 Kg Total catch: 142.57 CATCH/HOUR: 285.14

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Chlorophthalmus atlanticus	106.66	2928	37.41	
MYCTOPHIDAE	99.36	44712	34.85	
Illex coindetii	20.08	314	7.04	
Synagrops microlepis	19.98	708	7.01	
Trichiurus lepturus	18.64	72	6.54	
Chelidonichthys gabonensis	5.40	54	1.89	
Dentex angolensis	4.42	12	1.55	223
Sepia officinalis hierredda	4.14	162	1.45	
Merluccius pollii	1.98	18	0.59	
Peristedion cataphractum	1.72	62	0.60	
Zenopsis conchifer	1.44	8	0.51	
Epigonus telescopus	0.46	36	0.16	
Parapenaeus longirostris	0.28	44	0.10	
Zenion sp.	0.28	44	0.10	
C R U S T A C E A N S	0.10	8	0.04	
Coelorinchus coelorhincus	0.10	8	0.04	
Trigla lyra	0.10	8	0.04	
Total	285.14		100.02	

PROJECT STATION: 125
 DATE: 19/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 333 Long E 957
 start stop duration
 TIME : 07:22:00 07:52:00 30 (min) Purpose code: 3
 LOG : 3278.00 3279.50 1.50 Area code : 2
 FDEPTH: 149 146 GearCond.code:
 BDEPTH: 149 146 Validity code:
 Towing dir: 315° Wire out: 450 m Speed: 30 km*10
 Sorted: 28 Kg Total catch: 141.62 CATCH/HOUR: 283.24

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight	numbers	
Illex coindetii	109.50	3352	38.66
Trichiurus lepturus	87.50	130	30.89
Dentex congoensis	26.60	476	9.39
Antigonia capros	24.40	1116	8.61
Todaropsis eblanae	12.80	200	4.52
Spicara alta	10.80	160	3.81
Dentex angolensis	9.90	84	3.50
Aulopus cadenati	1.00	20	0.35
Peristedion cataphractum	0.74	20	0.26
Total	283.24		99.99

PROJECT STATION: 129
 DATE: 19/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 310 Long E 1020
 start stop duration
 TIME : 15:20:00 15:50:00 30 (min) Purpose code: 3
 LOG : 326.90 328.40 1.50 Area code : 2
 FDEPTH: 19 19 GearCond.code:
 BDEPTH: 19 19 Validity code:
 Towing dir: 300° Wire out: 140 m Speed: 30 km*10
 Sorted: 139 Kg Total catch: 291.03 CATCH/HOUR: 582.06

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight	numbers	
Ilisha africana	96.10	6823	14.79
Pomadasy's jubelini	68.58	126	11.78
Pseudolithus typus	66.70	60	11.46
Pseudolithus senegalensis	58.00	6	9.96
Dentex angolensis	53.20	62	9.14
Brachydeuterus auritus	51.10	4622	8.78
Galeoides decadactylus	42.84	178	7.36
Chloroscombrus chrysurus	42.00	928	7.22
Lutjanus goreensis	30.00	2	5.15
Erythrocles monodi	25.04	42	4.30
Squalus megalops	20.00	12	3.44
Sphyræna guachancho	15.36	224	2.64
Pagellus bellottii	14.10	50	2.42
Chaetodipterus goreensis	6.70	18	1.15
Pentanemus quinquarius	1.74	24	0.30
Scyllarides sp.	0.60	2	0.10
Total	582.06		99.99

PROJECT STATION: 126
 DATE: 19/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 332 Long E 957
 start stop duration
 TIME : 08:31:00 09:01:00 30 (min) Purpose code: 3
 LOG : 3281.10 3282.60 1.50 Area code : 2
 FDEPTH: 119 124 GearCond.code:
 BDEPTH: 119 124 Validity code:
 Towing dir: 160° Wire out: 360 m Speed: 30 km*10
 Sorted: 64 Kg Total catch: 180.99 CATCH/HOUR: 361.98

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight	numbers	
Dentex congoensis	187.20	1402	51.72
Umbriina canariensis	98.10	276	27.10
Dentex angolensis	25.98	180	7.18
Anthias anthias	12.24	62	3.38
Erythrocles monodi	10.80	24	2.98
Squalus megalops	10.80	4	2.98
Illex coindetii	9.18	318	2.54
Zeus faber	3.90	12	1.08
Todaropsis eblanae	1.20	102	0.33
Chaetodon hoefleri	0.90	6	0.25
Boops boops	0.72	30	0.20
Ariomma bondi	0.48	24	0.13
Spicara alta	0.48	6	0.13
Total	361.98		100.00

PROJECT STATION: 127
 DATE: 19/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 324 Long E 1008
 start stop duration
 TIME : 11:00:00 11:30:00 30 (min) Purpose code: 3
 LOG : 297.40 298.90 1.50 Area code : 2
 FDEPTH: 69 70 GearCond.code:
 BDEPTH: 69 70 Validity code:
 Towing dir: 140° Wire out: 250 m Speed: 30 km*10
 Sorted: 42 Kg Total catch: 42.03 CATCH/HOUR: 84.06

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight	numbers	
Trichiurus lepturus	34.50	68	41.04
Alloteuthis africana	19.90	5364	23.67
Selene dorsalis	16.02	110	19.06
Erythrocles monodi	5.28	10	5.28
Boops boops	2.38	300	2.83
Fistularia petimba	1.86	6	2.21
Panulirus argus	1.00	2	1.19
Dentex canariensis	0.74	2	0.88
Zeus faber	0.72	2	0.86
Todaropsis eblanae	0.38	10	0.45
Illex coindetii	0.36	14	0.43
Dactylopterus volitans	0.34	2	0.40
Pagellus bellottii	0.32	4	0.38
Trachurus juveniles	0.16	118	0.19
Dentex congoensis	0.10	2	0.12
Saurida brasiliensis	0.04	16	0.05
Scomber japonicus	0.02	16	0.02
Total	84.12		100.06

PROJECT STATION: 128
 DATE: 19/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 320 Long E 1012
 start stop duration
 TIME : 13:22:00 13:38:00 16 (min) Purpose code: 3
 LOG : 312.50 313.30 0.80 Area code : 2
 FDEPTH: 47 45 GearCond.code:
 BDEPTH: 47 45 Validity code:
 Towing dir: * Wire out: 150 m Speed: 31 km*10
 Sorted: 67 Kg Total catch: 67.27 CATCH/HOUR: 252.26

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight	numbers	
Trichiurus lepturus	123.56	623	48.98
Apsilus fuscus	40.88	71	16.21
Seriola carpenteri	29.51	26	11.70
Brachydeuterus auritus	13.88	863	5.50
Boops boops	8.48	1241	3.36
Alloteuthis africana	7.91		3.14
Lutjanus fulgens	7.84	15	3.11
Dentex gibbosus	5.25	8	2.08
Pseudolithus typus	4.04	4	1.21
Scomberomorus tritor	2.59	4	1.03
Pomadasy's incisus	2.21	15	0.88
Decapterus rhonchus	1.88	4	0.75
Fistularia petimba	1.28	4	0.51
SCYLLARIDAE	1.13	4	0.45
Trachurus juveniles	1.09	71	0.43
Sarda sarda	0.64	4	0.25
UNIDENTIFIED FISH	0.53	4	0.21
Sardinella aurita	0.49	113	0.19
Scomber japonicus	0.08	60	0.09
Selene dorsalis	0.04	26	0.02
Total	252.31		100.04

PROJECT STATION: 130
 DATE: 19/ 8/95 GEAR TYPE: PT No:2 POSITION: Lat S 309 Long E 1015
 start stop duration
 TIME : 18:42:00 19:12:00 30 (min) Purpose code: 1
 LOG : 3336.20 3338.10 1.90 Area code : 2
 FDEPTH: 0 0 GearCond.code:
 BDEPTH: 23 29 Validity code:
 Towing dir: 230° Wire out: 100 m Speed: 38 km*10
 Sorted: 51 Kg Total catch: 288.19 CATCH/HOUR: 576.38

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight	numbers	
Ilisha africana	165.90	4962	28.78
Galeoides decadactylus	66.50	588	11.54
Chaetodipterus goreensis	44.38	98	7.70
Sphyræna guachancho	41.02	168	7.12
Dentex gibbosus	39.90	112	6.92
Scomberomorus tritor	32.48	28	5.64
Sepia sp.	30.38	56	5.27
Chloroscombrus chrysurus	26.88	406	4.66
Alectis alexandrinus	23.80	8	4.13
Brachydeuterus auritus	20.72	378	3.59
Trichiurus lepturus	13.72	238	2.38
Elops lacerta	13.30	14	2.31
Plectorhinchus mediterraneus	12.88	14	2.23
Sardinella maderensis	11.20	56	1.94
Lutjanus fulgens	11.06	14	1.92
Pteroscopus pelli	8.26	28	1.43
Selene dorsalis	7.56	14	1.31
Pseudupeneus prayensis	6.44	14	1.12
Total	576.38		99.99

PROJECT STATION: 131
 DATE: 20/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 318 Long E 939
 start stop duration
 TIME : 05:49:00 06:19:00 30 (min) Purpose code: 3
 LOG : 3401.80 3403.40 1.60 Area code : 2
 FDEPTH: 352 363 GearCond.code:
 BDEPTH: 352 363 Validity code:
 Towing dir: 315° Wire out: 1000 m Speed: 32 km*10
 Sorted: 42 Kg Total catch: 159.04 CATCH/HOUR: 318.08

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight	numbers	
Chlorophthalmus atlanticus	78.72	1396	24.75
Trichiurus lepturus	63.00	276	19.81
Setarches guentheri	50.76	2278	15.96
Merluccius polli	35.00	240	11.00
Aulopus cadenati	27.00	624	8.49
MYCTOPHIDAE	18.12	8336	5.70
Illex coindetii	13.56	120	4.26
Ariomma bondi	9.00	792	2.83
Todaropsis eblanae	6.84	72	2.15
Synagrops microlepis	5.04	120	1.58
Epigonus telescopus	3.72	60	1.17
Trigla lyra	2.28	24	0.72
Paromola cuvieri	1.56	2	0.49
Parapenaeus longirostris	1.32	228	0.41
Cyttopsis roseus	0.96	24	0.30
MACROURIDAE	0.84	24	0.26
Fomatomus saltatrix	0.36	12	0.11
Total	318.08		99.99

PROJECT STATION: 132
 DATE: 20/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 315 Long E 938
 start stop duration
 TIME : 07:32:00 08:02:00 30 (min) Purpose code: 3
 LOG : 3407.00 3408.40 1.40 Area code : 2
 FDEPTH: 240 247 GearCond.code:
 BDEPTH: 240 247 Validity code:
 Towing dir: 130° Wire out: 750 m Speed: 28 km*10
 Sorted: 38 Kg Total catch: 152.07 CATCH/HOUR: 304.14

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
	weight	numbers	
Chlorophthalmus atlanticus	176.50	5684	58.03
Todaropsis eblanae	39.90	590	13.12
Illex coindetii	36.70	544	12.07
Zenopsis conchifer	17.50	30	5.75
Dentex angolensis	13.68	42	4.50
Synagrops microlepis	5.40	200	1.78
Squalus megalops	4.60	2	1.51
Trichiurus lepturus	4.10	10	1.35
Beryx splendens	2.20	10	0.72
Dentex congoensis	1.66	24	0.55
Pterothrissus belloci	1.60	10	0.53
Cyttopsis roseus	0.20	10	0.07
Peristedion cataphractum	0.10	10	0.03
Total	304.14		100.01

PROJECT STATION: 133
 DATE: 20/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 316
 start stop duration Long E 939
 TIME :08:38:00 09:08:00 30 (min) Purpose code: 3
 LOG :3410.10 3411.60 1.50 Area code : 2
 FDEPTH: 175 175 GearCond.code: 2
 BDEPTH: 175 175 Validity code:
 Towing dir: 320° Wire out: 510 m Speed: 30 kn*10
 Sorted: 25 Kg Total catch: 25.01 CATCH/HOUR: 50.02

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
weight	numbers		
Dentex congcoensis	14.98	218	29.95
Trichiurus lepturus	8.40	12	16.79
Illex coindetii	7.58	96	15.15
Todaropsis eblanae	6.80	104	13.59
Antigonia capros	5.36	202	10.72
Zenopsis conchifer	4.30	6	8.60
Spicara alta	1.20	16	2.40
Zeus faber	0.66	2	1.32
Dentex angolensis	0.52	2	1.04
Lepidotrigla cadmani	0.12	2	0.24
UNIDENTIFIED FISH	0.08	4	0.16
Peristedion cataphractum	0.02	2	0.04
Total	50.02	100.00	

PROJECT STATION: 138
 DATE: 20/ 8/95 GEAR TYPE: PT No:2 POSITION: Lat S 253
 start stop duration Long E 944
 TIME :19:39:00 20:17:00 38 (min) Purpose code: 1
 LOG :3472.00 3474.30 2.30 Area code : 2
 FDEPTH: 5 5 GearCond.code: 2
 BDEPTH: 49 44 Validity code:
 Towing dir: 52° Wire out: 100 m Speed: 40 kn*10
 Sorted: 77 Kg Total catch: 781.00 CATCH/HOUR: 1233.16

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
weight	numbers		
Chloroscombrus chrysurus	972.63	12968	78.87
Sardinella maderensis	53.53	284	4.34
Sphyræna guachancho	37.58	32	3.05
Brachydeuterus auritus	28.11	188	2.28
Sardinella aurita	25.11	379	2.04
Trachurus trecae	22.42	379	1.82
Alectis alexandrinus	22.42	6	1.82
Scomber japonicus	15.32	47	1.24
Dactylopterus volitans	14.05	32	1.14
Selene dorsalis	12.63	32	1.02
Decapterus rhonchus	11.84	16	0.96
Sepia officinalis hierredra	10.26	32	0.83
Pseudupeneus prayensis	7.26	32	0.59
Total	1233.16	100.00	

PROJECT STATION: 134
 DATE: 20/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 315
 start stop duration Long E 939
 TIME :09:40:00 10:20:00 40 (min) Purpose code: 3
 LOG :3413.60 3415.10 1.50 Area code : 2
 FDEPTH: 127 128 GearCond.code: 2
 BDEPTH: 127 128 Validity code:
 Towing dir: 135° Wire out: 390 m Speed: 30 kn*10
 Sorted: 32 Kg Total catch: 77.80 CATCH/HOUR: 116.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
weight	numbers		
Dentex congcoensis	76.70	1571	65.72
Ariomma bondi	21.65	1061	18.55
Spicara alta	11.52	186	9.87
Illex coindetii	2.37	20	2.03
Raja straeleni	1.86	2	1.59
Todaropsis eblanae	1.10	27	0.94
Boops boops	0.95	27	0.81
Dentex angolensis	0.45	12	0.39
Chelidonichthys lucerna	0.08	5	0.07
Peristedion cataphractum	0.05	5	0.04
Total	116.73	100.01	

PROJECT STATION: 139
 DATE: 21/ 8/95 GEAR TYPE: BT No: POSITION: Lat S 301
 start stop duration Long E 923
 TIME :06:00:00 06:30:00 30 (min) Purpose code: 3
 LOG :3525.30 3526.80 1.50 Area code : 2
 FDEPTH: 331 346 GearCond.code: 2
 BDEPTH: 331 346 Validity code:
 Towing dir: 130° Wire out: 1000 m Speed: 30 kn*10
 Sorted: 27 Kg Total catch: 124.67 CATCH/HOUR: 249.34

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
weight	numbers		
Chlorophthalmus atlanticus	121.00	2364	48.53
Trichiurus lepturus	38.40	170	15.40
Illex coindetii	19.00	180	7.62
Aulopus cadenati	15.00	490	6.02
Merluccius polli	12.54	114	5.03
UNIDENTIFIED FISH	11.10	270	4.45
Synagrops microlepis	8.40	240	3.37
Parapenaeus longirostris	5.70	986	2.29
Squalus megalops	5.50	2	2.21
Trigla lyra	4.70	40	1.88
Cynoglossus sp.	2.70	40	1.08
Todaropsis eblanae	1.20	10	0.48
Malacocephalus occidentalis	0.80	70	0.32
Zenion sp.	0.80	70	0.32
Cyttopsis roseus	0.80	10	0.32
MACROURIDAE	0.70	20	0.28
Sepia officinalis hierredra	0.60	30	0.24
Nezumia aequalis	0.30	10	0.12
C R U S T A C E A N S	0.20	10	0.08
Chaetodon marcellae	0.10	10	0.04
Peristedion cataphractum	0.10	10	0.04
Total	249.64	100.12	

PROJECT STATION: 135
 DATE: 20/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 306
 start stop duration Long E 950
 TIME :11:55:00 12:25:00 30 (min) Purpose code: 3
 LOG :430.10 431.60 1.50 Area code : 2
 FDEPTH: 69 60 GearCond.code: 2
 BDEPTH: 69 60 Validity code:
 Towing dir: 44° Wire out: 240 m Speed: 30 kn*10
 Sorted: 52 Kg Total catch: 52.41 CATCH/HOUR: 104.82

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
weight	numbers		
Alloteuthis africana	39.40	11992	37.59
Decapterus rhonchus	18.22	28	17.38
Trichiurus lepturus	15.10	22	14.41
Pagellus bellottii	12.36	56	11.79
Trachurus trecae	10.08	120	9.62
Octopus vulgaris	2.48	2	2.37
Sepiella ornata	1.72	16	1.64
Fistularia petimba	1.20	4	1.14
Todaropsis eblanae	1.20	12	1.14
Selene dorsalis	0.92	6	0.88
Sardinella aurita	0.70	6	0.67
Sardinella maderensis	0.50	4	0.48
Prisacanthus arenatus	0.38	2	0.36
Lepidotrigla cadmani	0.22	2	0.21
Illex coindetii	0.14	2	0.13
UNIDENTIFIED FISH	0.12	2	0.11
Peristedion cataphractum	0.08	2	0.08
Total	104.82	100.00	

PROJECT STATION: 140
 DATE: 21/ 8/95 GEAR TYPE: BT No: POSITION: Lat S 259
 start stop duration Long E 924
 TIME :08:18:00 08:48:00 30 (min) Purpose code: 3
 LOG :3535.20 3536.70 1.50 Area code : 2
 FDEPTH: 189 187 GearCond.code: 2
 BDEPTH: 189 187 Validity code:
 Towing dir: 298° Wire out: 572 m Speed: 30 kn*10
 Sorted: 26 Kg Total catch: 26.22 CATCH/HOUR: 52.44

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
weight	numbers		
Dentex angolensis	30.90	108	58.92
Trichiurus lepturus	9.60	18	18.31
Spicara alta	3.28	28	6.25
Illex coindetii	2.64	26	5.03
Zeus faber	2.26	4	4.31
Lepidotrigla cadmani	1.46	16	2.78
Todaropsis eblanae	1.42	32	2.71
Antigonia capros	0.30	6	0.57
Pterothrissus belloci	0.22	2	0.42
Uranoscopus cadenati	0.18	2	0.34
Dentex congcoensis	0.16	2	0.31
Trigla lyra	0.02	2	0.04
Total	52.44	99.99	

PROJECT STATION: 136
 DATE: 20/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 301
 start stop duration Long E 955
 TIME :13:10:00 13:40:00 30 (min) Purpose code: 3
 LOG :436.80 438.30 1.50 Area code : 2
 FDEPTH: 44 44 GearCond.code: 2
 BDEPTH: 44 44 Validity code:
 Towing dir: 46° Wire out: 160 m Speed: 30 kn*10
 Sorted: 86 Kg Total catch: 765.01 CATCH/HOUR: 1530.02

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
weight	numbers		
Chloroscombrus chrysurus	1012.20	12652	66.16
Brachydeuterus auritus	402.14	31746	26.28
Pagellus bellottii	56.88	610	3.69
Sardinella maderensis	19.50	162	1.27
Sphyræna guachancho	17.64	22	1.15
Scomberomorus tritor	8.24	8	0.54
Trichiurus lepturus	5.46	22	0.36
Pseudupeneus prayensis	5.04	22	0.33
Pomadasy incisus	5.04	22	0.33
Sardinella aurita	1.60	44	0.10
Decapterus punctatus	0.62	22	0.04
Engraulis encrasicolus	0.20	42	0.01
Total	1534.16	100.26	

PROJECT STATION: 141
 DATE: 21/ 8/95 GEAR TYPE: BT No: POSITION: Lat S 258
 start stop duration Long E 924
 TIME :09:24:00 09:54:00 30 (min) Purpose code: 3
 LOG :3539.60 3541.20 1.60 Area code : 2
 FDEPTH: 144 137 GearCond.code: 2
 BDEPTH: 144 137 Validity code:
 Towing dir: 120° Wire out: 430 m Speed: 30 kn*10
 Sorted: 84 Kg Total catch: 84.79 CATCH/HOUR: 169.58

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
weight	numbers		
Dentex angolensis	52.00	280	30.66
Dentex congcoensis	50.30	578	29.66
Antigonia capros	30.30	900	17.87
Spicara alta	11.96	122	7.05
Trichiurus lepturus	4.90	6	2.89
Pentheroscion mbizi	4.60	38	2.71
Todaropsis eblanae	2.74	136	1.62
Pterothrissus belloci	2.16	16	1.27
Illex coindetii	1.96	42	1.16
Lepidotrigla cadmani	1.96	24	1.16
Zenopsis conchifer	1.74	2	1.03
Raja straeleni	1.56	2	0.92
Ariomma bondi	0.90	10	0.53
Aulopus cadenati	0.60	6	0.35
Peristedion cataphractum	0.48	2	0.28
Citharus linguatula	0.44	12	0.26
Chelidonichthys lastoviza	0.38	12	0.22
Cynoglossus sp.	0.02	2	0.01
Total	169.00	99.65	

PROJECT STATION: 137
 DATE: 20/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 256
 start stop duration Long E 959
 TIME :14:30:00 15:00:00 30 (min) Purpose code: 3
 LOG :444.30 443.70 1.40 Area code : 2
 FDEPTH: 25 23 GearCond.code: 8
 BDEPTH: 25 23 Validity code: 9
 Towing dir: 320° Wire out: 130 m Speed: 28 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP
weight	numbers		
N O C A T C H	0.00		
Total			

PROJECT STATION: 142
 DATE: 21/ 8/95 GEAR TYPE: BT No: POSITION: Lat S 252 Long E 930
 start stop duration
 TIME :11:08:00 11:38:00 30 (min) Purpose code: 3
 LOG : 549.50 551.00 1.50 Area code : 2
 FDEPTH: 90 89 GearCond.code:
 BDEPTH: 90 89 Validity code:
 Towing dir: 320° Wire out: 270 m Speed: 30 kn*10
 Sorted: 7 Kg Total catch: 7.37 CATCH/HOUR: 14.74

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Boops boops	3.90	106	25.46	
Ariomma bondi	3.36	530	22.80	
Trichurus lepturus	2.90	4	19.67	
Torpedo torpedo	0.76	2	5.16	
Raja miraletus	0.74	2	5.02	
Illex coindetii	0.66	88	4.48	
Dentex congoensis	0.64	14	4.34	
Chelidonichthys lastoviza	0.44	6	2.99	
Priacanthus arenatus	0.40	2	2.71	
Todaropsis eblanae	0.40	20	2.71	
Lepidotrigla cadmani	0.18	8	1.22	
Citharus linguatula	0.10	2	0.68	
Trachurus trecae	0.10	2	0.68	
Saurida brasiliensis	0.08	14	0.54	
Scomber japonicus	0.06	6	0.41	
Ephippion guttifer	0.02	4	0.14	
Total	14.74		100.01	

PROJECT STATION: 146
 DATE: 22/ 8/95 GEAR TYPE: BT No:9 POSITION: Lat S 234 Long E 903
 start stop duration
 TIME :08:06:00 08:36:00 30 (min) Purpose code: 3
 LOG :3657.10 3658.60 1.50 Area code : 2
 FDEPTH: 142 146 GearCond.code:
 BDEPTH: 142 146 Validity code:
 Towing dir: 320° Wire out: 420 m Speed: 30 kn*10
 Sorted: 47 Kg Total catch: 94.78 CATCH/HOUR: 189.56

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Antigonia capros	92.60	4500	48.85	
Spicara alta	57.80	570	30.49	252
Dentex congoensis	31.28	582	16.50	253
Dentex angolensis	2.20	24	1.16	
Boops boops	2.16	32	1.14	
Todaropsis eblanae	1.80	100	0.95	
Lagocephalus laevigatus	0.92	4	0.49	
Lepidotrigla cadmani	0.68	12	0.36	
Citharus linguatula	0.08	4	0.04	
Chaetodon marcellae	0.04	4	0.02	
Total	189.56		100.00	

PROJECT STATION: 143
 DATE: 21/ 8/95 GEAR TYPE: BT No:8 POSITION: Lat S 244 Long E 934
 start stop duration
 TIME :12:48:00 13:00:00 12 (min) Purpose code: 3
 LOG : 559.50 561.90 0.60 Area code : 2
 FDEPTH: 57 55 GearCond.code: 8
 BDEPTH: 57 55 Validity code: 9
 Towing dir: 50° Wire out: 200 m Speed: 30 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
N O C A T C H	0.00			
Total				

PROJECT STATION: 147
 DATE: 22/ 8/95 GEAR TYPE: BR No:9 POSITION: Lat S 233 Long E 904
 start stop duration
 TIME :09:16:00 09:46:00 30 (min) Purpose code: 3
 LOG :3661.90 3663.40 1.50 Area code : 2
 FDEPTH: 114 110 GearCond.code:
 BDEPTH: 114 110 Validity code:
 Towing dir: 135° Wire out: 350 m Speed: 30 kn*10
 Sorted: 85 Kg Total catch: 618.10 CATCH/HOUR: 1236.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Boops boops	306.00	7928	24.75	255
Spicara alta	280.00	1654	22.65	
Umbriina canariensis	274.00	600	22.16	254
Dentex congoensis	137.40	2040	11.11	
Dentex gibbosus	80.60	100	6.52	
Epinephelus aeneus	50.20	4	4.06	
Illex coindetii	30.00	2400	2.43	
Anthias anthias	27.40	2640	2.22	
Ariomma bondi	18.80	820	1.52	
Dentex barnardi	18.60	20	1.50	
Pagellus bellottii	15.00	80	1.21	
Todaropsis eblanae	1.80	140	0.15	
Chelidonichthys lyra *	0.40	20	0.03	
Total	1240.20		100.31	

PROJECT STATION: 144
 DATE: 21/ 8/95 GEAR TYPE: PT No:7 POSITION: Lat S 228 Long E 934
 start stop duration
 TIME :19:10:00 19:40:00 30 (min) Purpose code: 1
 LOG :3588.10 3590.00 0.90 Area code : 2
 FDEPTH: 5 5 GearCond.code:
 BDEPTH: 20 19 Validity code:
 Towing dir: 140° Wire out: 100 m Speed: 38 kn*10
 Sorted: 30 Kg Total catch: 59.64 CATCH/HOUR: 119.28

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Sardinella maderensis	48.60	682	40.74	250
Brachydeuterus auritus	26.72	1164	22.40	
Galeoides decadactylus	24.28	328	20.36	
Ilisha africana	5.56	296	4.66	
Sphyræna guachancho	5.12	28	4.29	
Pomadasy jubelini	3.72	16	3.12	
Chloroscombus chrysurus	2.92	48	2.45	
Pomadasy rogeri	1.60	4	1.34	
Selene dorsalis	0.56	8	0.47	
Pseudupeneus prayensis	0.08	12	0.07	
Penaus kerathurus	0.08	12	0.07	
Penaus notialis	0.08	4	0.07	
Total	119.32		100.04	

PROJECT STATION: 148
 DATE: 22/ 8/95 GEAR TYPE: BT No:9 POSITION: Lat S 233 Long E 907
 start stop duration
 TIME :10:43:00 11:08:00 25 (min) Purpose code: 3
 LOG :3667.60 3668.70 1.10 Area code : 2
 FDEPTH: 81 83 GearCond.code:
 BDEPTH: 81 83 Validity code:
 Towing dir: 320° Wire out: 240 m Speed: 30 kn*10
 Sorted: 6 Kg Total catch: 5.81 CATCH/HOUR: 13.94

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Alloteuthis africana	4.20	840	30.13	
Dentex gibbosus	3.17	5	22.74	
Illex coindetii	2.35	437	16.86	
Lepidotrigla cadmani	1.42	14	10.19	
Pagellus bellottii	1.42	14	10.19	
Priacanthus arenatus	0.89	5	6.38	
Sepiella ornata	0.31	2	2.22	
Scomber japonicus	0.14	10	1.00	
Trachurus trecae, juvenile	0.05	5	0.36	
Total	13.95		100.07	

PROJECT STATION: 145
 DATE: 22/ 8/95 GEAR TYPE: BT No:9 POSITION: Lat S 240 Long E 901
 start stop duration
 TIME :05:46:00 06:16:00 30 (min) Purpose code: 3
 LOG :3642.90 3644.60 1.50 Area code : 2
 FDEPTH: 332 356 GearCond.code:
 BDEPTH: 332 356 Validity code:
 Towing dir: 140° Wire out: 1000 m Speed: 30 kn*10
 Sorted: 27 Kg Total catch: 99.43 CATCH/HOUR: 198.86

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Chlorophthalmus atlanticus	92.80	1568	46.67	
Trichurus lepturus	28.16	48	14.16	
Aulopus cadenati	27.52	1172	13.84	
Setarches guentheri	15.92	1076	8.01	
Epigonus sp.	8.48	520	4.26	
Illex coindetii	6.00	56	3.02	
Todaropsis eblanae	4.96	48	2.49	
Merluccius polli	4.78	32	2.40	
MYCTOPHIDAE	3.60	464	1.81	
Trigla lyra	2.72	32	1.37	
Parapenaeus longirostris	2.16	440	1.09	251
Nezumia aequalis	1.12	176	0.56	
Cyrtopsis roseus	0.40	32	0.20	
Ceelorhinchus coelorhynchus	0.16	8	0.08	
Scorpaena stephanica	0.08	8	0.04	
Total	198.86		100.00	

PROJECT STATION: 149
 DATE: 22/ 8/95 GEAR TYPE: BT No:9 POSITION: Lat S 228 Long E 915
 start stop duration
 TIME :12:50:00 13:20:00 30 (min) Purpose code: 3
 LOG :3682.10 3683.60 1.50 Area code : 2
 FDEPTH: 62 61 GearCond.code:
 BDEPTH: 62 61 Validity code:
 Towing dir: 320° Wire out: 200 m Speed: 30 kn*10
 Sorted: 1 Kg Total catch: 1.23 CATCH/HOUR: 2.46

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Alloteuthis africana	1.64	392	66.67	
Priacanthus arenatus	0.50	2	20.33	
Illex coindetii	0.22	36	8.94	
Fistularia petimba	0.02	2	0.81	
Selene dorsalis, juveniles	0.02	6	0.81	
Lepidotrigla carolae	0.02	2	0.81	
Lagocephalus laevigatus	0.02	2	0.81	
Ephippion guttifer	0.02	2	0.81	
Total	2.46		99.99	

DATE:22/ 8/95 GEAR TYPE: BT No:9 PROJECT STATION: 150
 start stop duration POSITION:Lat S 224
 Long E 919
 TIME :14:55:00 15:25:00 30 (min) Purpose code: 3
 LOG :3694.50 3696.00 1.50 Area code : 2
 FDEPTH: 44 42 GearCond.code:
 BDEPTH: 44 42 Validity code:
 Towing dir: 360° Wire out: 150 m Speed: 30 kn*10

Sorted: 47 Kg Total catch: 46.59 CATCH/HOUR: 93.18

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Decapterus rhonchus	56.30	1468	60.42	257
Alloteuthis africana	23.80	12982	25.54	
Sardinella aurita	7.40	1040	7.94	256
Balistes capricornis	1.46	2	1.57	
Pagellus bellottii	1.40	20	1.50	
Scomber japonicus	0.74	76	0.79	
Sphyraena guachancho	0.56	2	0.60	
Cynoglossus sp.	0.46	2	0.49	
Sepiella ornata	0.42	2	0.45	
Dactylopterus volitans	0.30	2	0.32	
Lagocephalus laevigatus	0.18	2	0.19	
Fistularia petimba	0.10	6	0.11	
Saurida brasiliensis	0.06	10	0.06	
Total	93.18		99.98	

DATE:23/ 8/95 GEAR TYPE: BT No:9 PROJECT STATION: 153
 start stop duration POSITION:Lat S 210
 Long E 852
 TIME :07:08:00 07:38:00 30 (min) Purpose code: 3
 LOG :3821.70 3823.20 1.50 Area code : 2
 FDEPTH: 139 138 GearCond.code:
 BDEPTH: 139 138 Validity code:
 Towing dir: 345° Wire out: 420 m Speed: 30 kn*10

Sorted: 66 Kg Total catch: 180.92 CATCH/HOUR: 361.84

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Antigonia capros	139.80	4448	38.64	
Illex coindetii	83.10	2336	22.97	
Todaropsis eblanae	36.18	1180	10.00	
Ariomma bondi	33.54	412	9.27	
Squalus megalops	17.20	14	4.75	
Spicara alta	15.84	132	4.38	259
Dentex coenecensis	10.74	234	2.97	260
Raja sp.	8.88	6	2.45	
Emunida squamifera	4.62	408	1.28	
Peristedion cataphractum	4.38	174	1.21	
Priacanthus arenatus	3.66	12	1.01	
Lagocephalus laevigatus	2.76	18	0.76	
Aulopus cadenati	0.84	6	0.23	
Zenopsis conchifer	0.30	6	0.08	
Total	361.84		100.00	

DATE:22/ 8/95 GEAR TYPE: PT No:2 PROJECT STATION: 151
 start stop duration POSITION:Lat S 212
 Long E 212
 TIME :19:35:00 20:05:00 30 (min) Purpose code: 1
 LOG :3730.90 3732.60 1.70 Area code : 2
 FDEPTH: 0 0 GearCond.code:
 BDEPTH: 25 25 Validity code:
 Towing dir: 150° Wire out: 70 m Speed: 34 kn*10

Sorted: 81 Kg Total catch: 1013.23 CATCH/HOUR: 2026.46

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Chloroscombrus chrysurus	1501.24	19376	74.08	258
Brachydeuterus auritus	343.74	5562	16.96	
Sphyraena guachancho	84.00	250	4.15	
Pomadasys jubelini	69.74	200	3.44	
Sardinella maderensis	19.00	4726	0.94	
Galeoides decadactylus	4.50	200	0.22	
Selene dorsalis	3.50	250	0.17	
Trachurus trecae	0.74	50	0.04	
Total	2026.46		100.00	

DATE:23/ 8/95 GEAR TYPE: BT No:9 PROJECT STATION: 154
 start stop duration POSITION:Lat S 204
 Long E 858
 TIME :08:50:00 08:58:00 8 (min) Purpose code: 3
 LOG :3832.10 3832.50 0.40 Area code : 2
 FDEPTH: 76 76 GearCond.code:
 BDEPTH: 76 76 Validity code:
 Towing dir: 150° Wire out: 225 m Speed: 3 kn*10

Sorted: 14 Kg Total catch: 6.81 CATCH/HOUR: 51.08

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Sarpa salpa	16.13	165	31.58	
Priacanthus arenatus	7.65	30	14.98	
Todaropsis eblanae	6.23	465	12.20	
Dentex canariensis	4.05	8	7.93	
Pagellus bellottii	3.98	38	7.79	
Dentex gibbosus	3.45	15	6.75	
Zeus faber	2.70	8	5.29	
Sparus pagrus africanus *	2.55	8	4.99	
Fistularia petimba	1.88	8	3.68	
Chaetodon sp.	0.60	8	1.17	
Spicara alta	0.60	8	1.17	
Pseudupeneus prayensis	0.53	8	1.04	
Ariomma bondi	0.30	8	0.59	
Peristedion cataphractum	0.23	8	0.43	
Chelidionichthys lucerna	0.08	8	0.16	
Selene dorsalis	0.08	8	0.16	
Scomber japonicus	0.08	8	0.16	
Total	51.12		100.09	

DATE:23/ 8/95 GEAR TYPE: BT No:9 PROJECT STATION: 152
 start stop duration POSITION:Lat S 210
 Long E 851
 TIME :05:33:00 06:03:00 30 (min) Purpose code: 3
 LOG :3814.00 3815.00 1.50 Area code : 2
 FDEPTH: 260 252 GearCond.code:
 BDEPTH: 260 252 Validity code:
 Towing dir: 165° Wire out: 750 m Speed: 30 kn*10

Sorted: 31 Kg Total catch: 285.45 CATCH/HOUR: 570.90

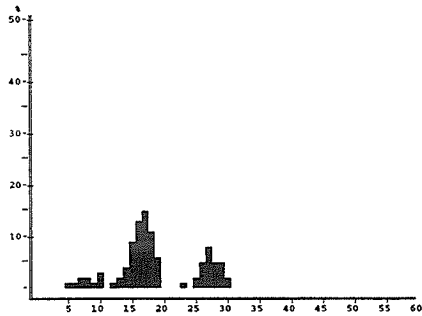
SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Zenion hololepis	191.28	20172	33.50	
Chlorophthalmus atlanticus	176.40	5444	30.90	
Emunida squamifera	85.92	6074	15.05	
Synagrops microlepis	31.92	2040	5.59	
Dasyatis centroura	16.74	2	2.93	
Lepidotrigla cadmani	10.80	144	1.89	
Epigonus telescopus	9.60	1968	1.68	
Sepia officinalis hierredda	8.16	384	1.43	
Todaropsis eblanae	7.92	96	1.39	
Bembrops heterurus	6.96	144	1.22	
Trigla lyra	6.00	72	1.05	
Peristedion cataphractum	4.80	216	0.84	
Aulopus cadenati	4.08	48	0.71	
Illex coindetii	2.16	24	0.38	
Nesunia aequalis	1.68	48	0.29	
Cypselurus sp.	1.20	24	0.21	
Epigonus sp.	1.20	24	0.21	
Parapenaeus longirostris	0.96	168	0.17	
Cyttopsis roseus	0.96	48	0.17	
SQUALIDAE	0.72	48	0.13	
Hoplostethus mediterraneus	0.72	24	0.13	
Coelorinchus coelorhincus	0.72	24	0.13	
Total	570.90		100.00	

DATE:23/ 8/95 GEAR TYPE: BT No:9 PROJECT STATION: 155
 start stop duration POSITION:Lat S 155
 Long E 911
 TIME :11:00:00 11:30:00 30 (min) Purpose code: 3
 LOG :3849.10 3850.60 1.50 Area code : 2
 FDEPTH: 29 27 GearCond.code:
 BDEPTH: 29 27 Validity code:
 Towing dir: 140° Wire out: 150 m Speed: 30 kn*10

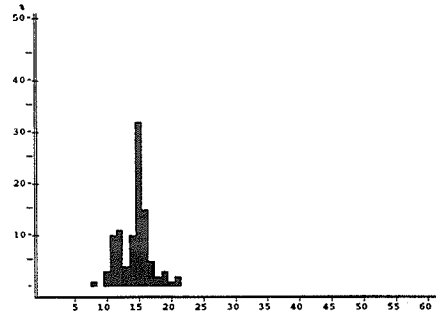
Sorted: 65 Kg Total catch: 65.87 CATCH/HOUR: 131.74

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP
	weight	numbers		
Brachydeuterus auritus	74.30	1310	56.40	262
Engraulis encrasicolus	14.44	3790	10.96	
Alloteuthis africana	10.92	4658	8.29	
Pagellus bellottii	9.70	128	7.36	
Decapterus rhonchus	8.70	76	6.60	
Sphyraena guachancho	3.80	74	2.88	261
Sardinella aurita	3.56	1038	2.70	
Trichiurus lepturus	1.60	116	1.21	
Sarpa salpa	1.04	10	0.79	
Sardinella maderensis	0.76	32	0.58	
Penaeus notialis	0.72	24	0.55	
Cynoglossus sp.	0.56	2	0.43	
Selene dorsalis	0.56	2	0.43	
Fistularia petimba	0.34	6	0.26	
Trachurus, Juveniles	0.28	420	0.21	
Torpedo torpedo	0.28	2	0.21	
Pseudupeneus prayensis	0.10	6	0.08	
Sepia officinalis hierredda	0.04	2	0.03	
Anthias anthias	0.04	6	0.03	
Total	131.74		100.00	

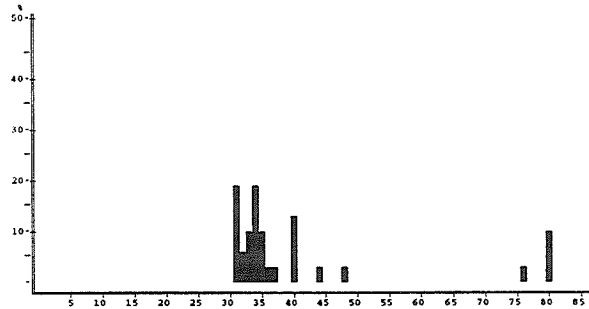
Annex II. CONGO. Length distributions of main species



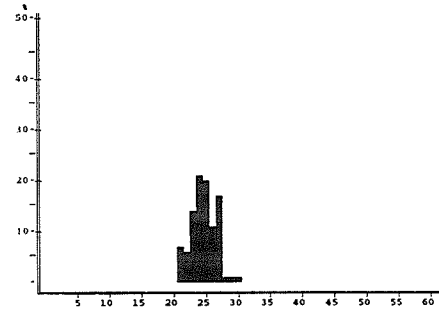
Dentex angolensis
 CONGO
 MEAN LENGTH = 19.07cm N= 235
 NUMBER OF SUBSAMPLES : 6



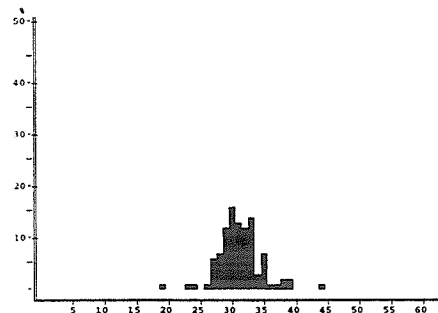
Brachydeuterus auritus
 CONGO
 MEAN LENGTH = 15.00cm N= 92
 NUMBER OF SUBSAMPLES : 2



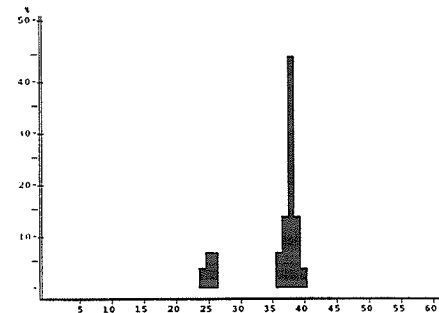
Pseudotolithus typus
 CONGO
 MEAN LENGTH = 41.15cm N= 32
 NUMBER OF SUBSAMPLES : 1



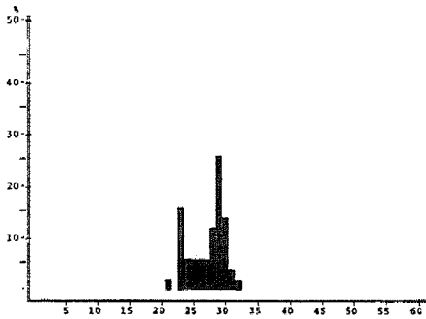
Pentheroscion mbizi
 CONGO
 MEAN LENGTH = 25.18cm N= 71
 NUMBER OF SUBSAMPLES : 1



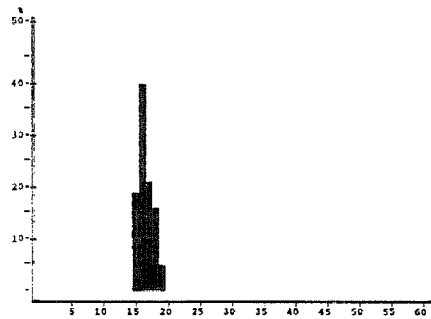
Merluccius polli
 CONGO
 MEAN LENGTH = 31.66cm N= 180
 NUMBER OF SUBSAMPLES : 4



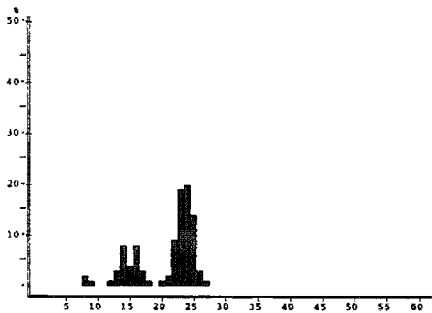
Trachurus trecae
 CONGO
 MEAN LENGTH = 36.21cm N= 29
 NUMBER OF SUBSAMPLES : 1



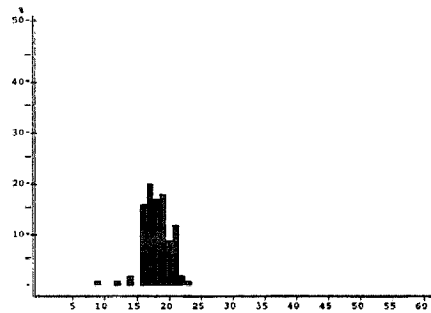
Selene dorsalis
 CONGO
 MEAN LENGTH = 27.69cm N= 50
 NUMBER OF SUBSAMPLES : 1



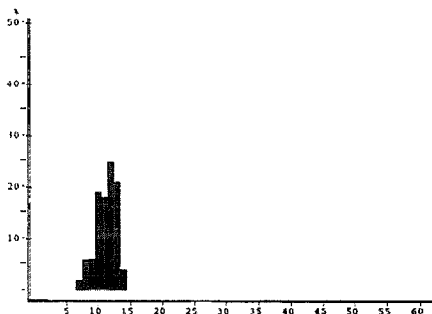
Chloroscombrus chrysurus
 CONGO
 MEAN LENGTH = 16.99cm N= 43
 NUMBER OF SUBSAMPLES : 1



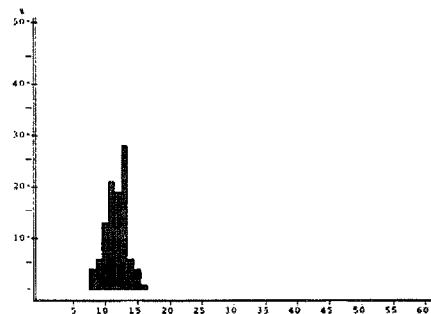
Sardinella maderensis
 CONGO
 MEAN LENGTH = 21.35cm N= 200
 NUMBER OF SUBSAMPLES : 2



Ilisha africana
 CONGO
 MEAN LENGTH = 18.63cm N= 95
 NUMBER OF SUBSAMPLES : 3

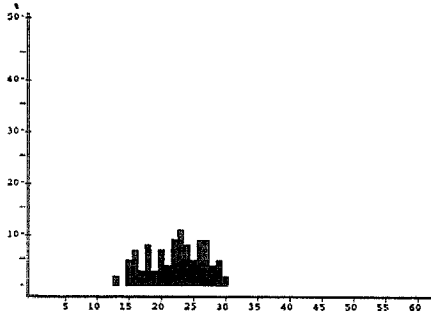


Parapenaeopsis atlantica
 CONGO
 MEAN LENGTH = 11.71cm N= 225
 NUMBER OF SUBSAMPLES : 4

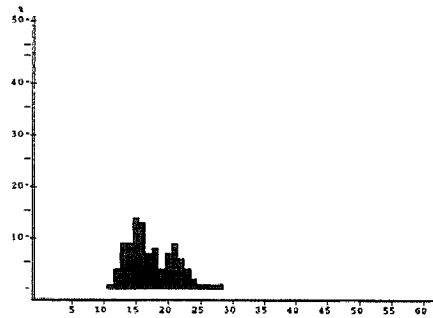


Parapenaeus longirostris
 CONGO
 MEAN LENGTH = 12.26cm N= 204
 NUMBER OF SUBSAMPLES : 2

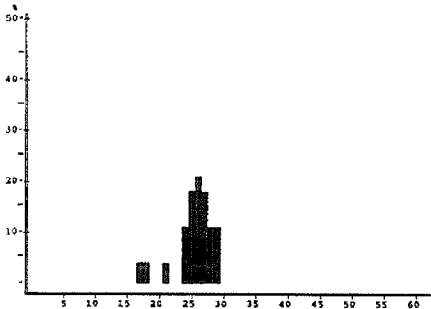
Annex III. GABON. Length distributions of main species



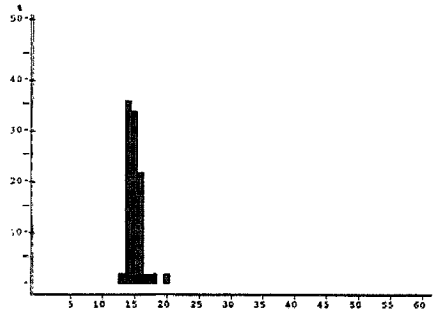
Dentex angolensis
GABON
MEAN LENGTH = 22.82cm N= 255
NUMBER OF SUBSAMPLES : 7



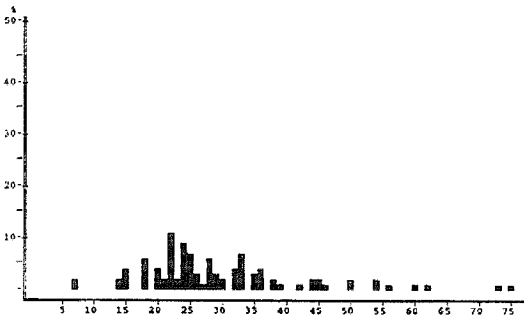
Dentex congoensis
GABON
MEAN LENGTH = 17.65cm N= 656
NUMBER OF SUBSAMPLES : 9



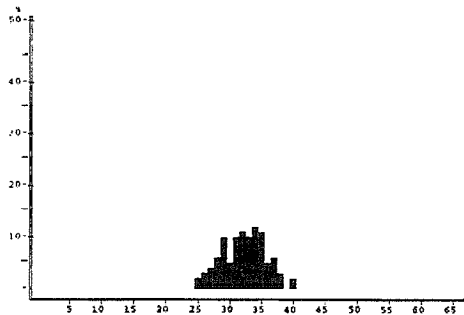
Pagellus bellottii
GABON
MEAN LENGTH = 26.04cm N= 28
NUMBER OF SUBSAMPLES : 1



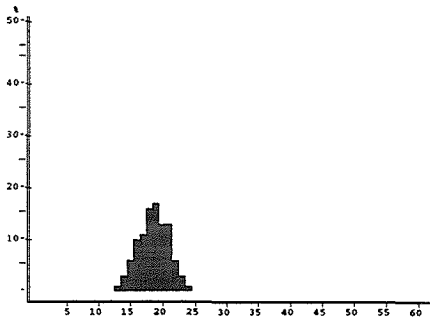
Roops boops
GABON
MEAN LENGTH = 15.52cm N= 50
NUMBER OF SUBSAMPLES : 1



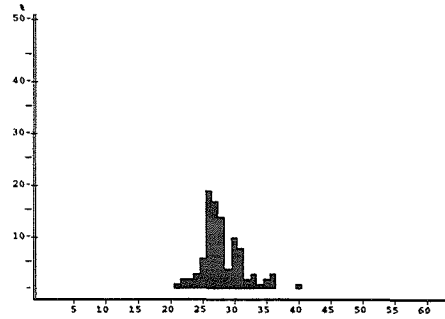
Pseudotolithus typus
GABON
MEAN LENGTH = 30.32cm N= 69
NUMBER OF SUBSAMPLES : 3



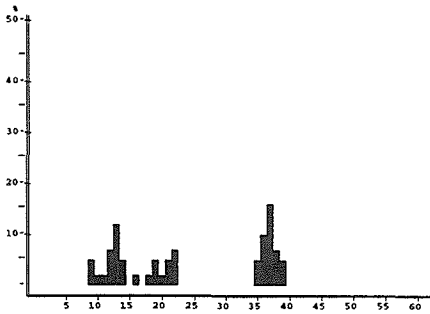
Umbrina canariensis
GABON
MEAN LENGTH = 32.63cm N= 131
NUMBER OF SUBSAMPLES : 4



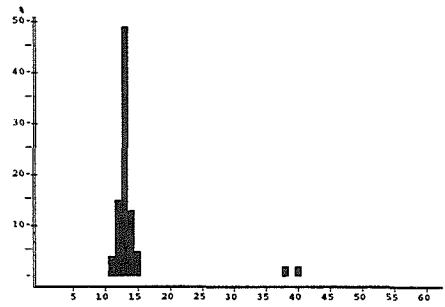
Spicara alta
 GABON
 MEAN LENGTH = 19.16cm N= 119
 NUMBER OF SUBSAMPLES : 2



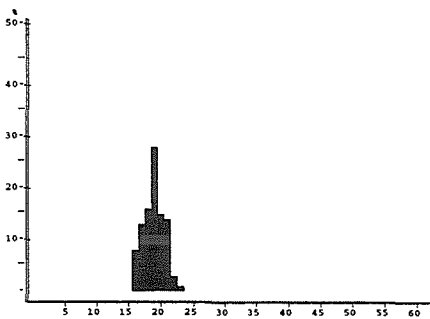
Merluccius polli
 GABON
 MEAN LENGTH = 28.66cm N= 204
 NUMBER OF SUBSAMPLES : 3



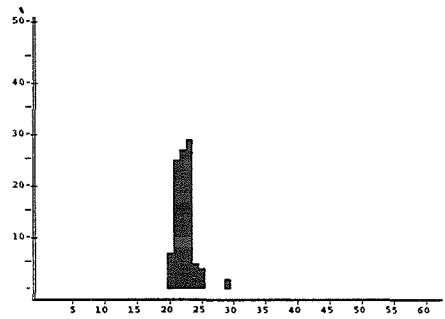
Trachurus trecae
 GABON
 MEAN LENGTH = 25.14cm N= 74
 NUMBER OF SUBSAMPLES : 2



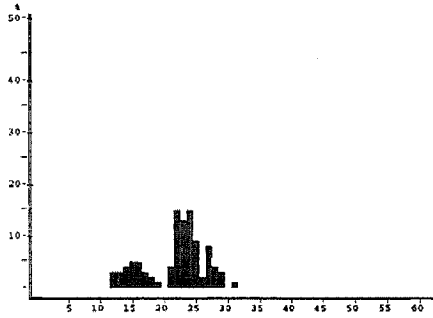
Decapterus rhonchus
 GABON
 MEAN LENGTH = 14.96cm N= 68
 NUMBER OF SUBSAMPLES : 2



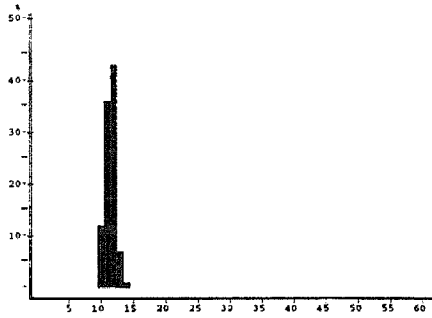
Chloroscombrus chrysurus
 GABON
 MEAN LENGTH = 19.43cm N= 185
 NUMBER OF SUBSAMPLES : 2



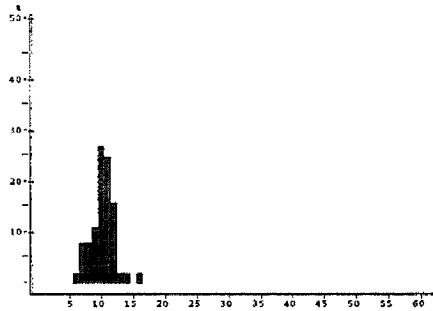
Selene dorsalis
 GABON
 MEAN LENGTH = 22.74cm N= 55
 NUMBER OF SUBSAMPLES : 1



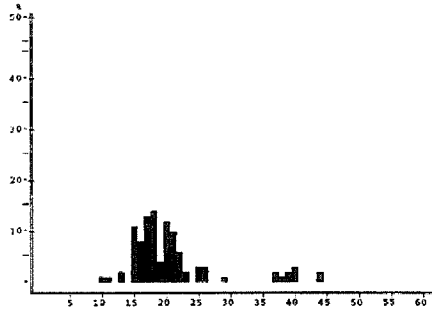
Sardinella maderensis
 GABON
 MEAN LENGTH = 22.28cm N= 249
 NUMBER OF SUBSAMPLES : 4



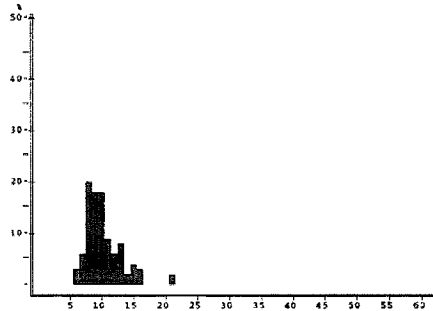
Sardinella aurita
 GABON
 MEAN LENGTH = 12.03cm N= 249
 NUMBER OF SUBSAMPLES : 6



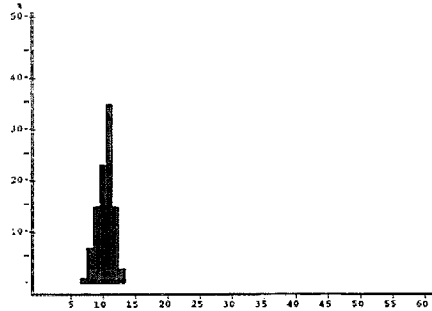
Ilisha africana
 GABON
 MEAN LENGTH = 10.70cm N= 64
 NUMBER OF SUBSAMPLES : 1



Sphyraena guachancho
 GABON
 MEAN LENGTH = 21.01cm N= 85
 NUMBER OF SUBSAMPLES : 2



Parapenaeopsis atlantica
 GABON
 MEAN LENGTH = 10.84cm N= 159
 NUMBER OF SUBSAMPLES : 3



Parapenaeus longirostris
 GABON
 MEAN LENGTH = 10.89cm N= 323
 NUMBER OF SUBSAMPLES : 3

Annex IV Instruments and fishing gear used

The Simrad EK-500/38kHz scientific sounder was used during the survey for fish abundance estimation. The Bergen Echo Integrator system (BEI) was used to scrutinize the acoustic records from the 38kHz echo sounder, and to allocate integrator values to fish species.

The details of the settings of the 38kHz echo sounder where as follows:

Tranceiver-1 menu (38 kHz lowering keel)

Transducer depth	0.00 m
Absorbtion coeff.	10 dB/km
Pulse length	medium (1ms)
Bandwidth	wide
Max power	2000 Watt
2-way beam angle	-21.0 dB
SV transducer gain	28.0 dB
TS transducer gain	27.9 dB
Angle sensitivity	21.9
3 dB beamwidth	6.8 dg
Alongship offset	0.00 "
Athwardship offset	0.04 "

Display menu

Echogram	1 (38 kHz)
Bottom range	15 m
Bottom range start	10 m
Sv colour min	-67 dB

Printer- menu

Echogram	1 (38 kHz)
Range	100, 250 and 500 m
Range start	0
Bottom range	12 m
Bottom range start	10 m
Sv colour min	-72 dB
TVG	20 log R

Bottom detection menu Minimum level -50 dB

Fishing gear

The vessel has two different sized "Åkrahavn" pelagic trawls and one "Gisund super bottom trawl". Both the bottom trawl and the smallest pelagic trawl were used during the survey.

The bottom trawl has a headline of 31 m, footrope 47 m and 20 mm meshsize in the codend with an innernet of 10 mm meshsize. The estimated opening is 6 m (observed 5.7) and distance between wings during towing about 18 m. The sweeps are 40 m long. The trawl is equipped with a 12" rubber bobbins gear. The doors are of 'Thyborøn' combi type, 7.81 m², 1670 kg, their distance while trawling about 46 m in average. This distance is kept constant at all depths by the use of a 9.5 m strap between the wires at 130 m distance from the doors (applied at depths greater than 60 m).

The SCANMAR system was used on all trawl hauls. This equipment consists of sensors, a hydrophone, a receiver, a display unit and a battery charger. Communication between sensors and ship is based on acoustic transmission. The doors are fitted with sensors to provide information on their distance and a height sensor is fitted to the bottom trawl to measure the trawl opening and provide information on clearance and bottom contact..

The pelagic trawl is equipped with a trawleye that provides information on the trawl opening and the distance of the footrope to the bottom.

