

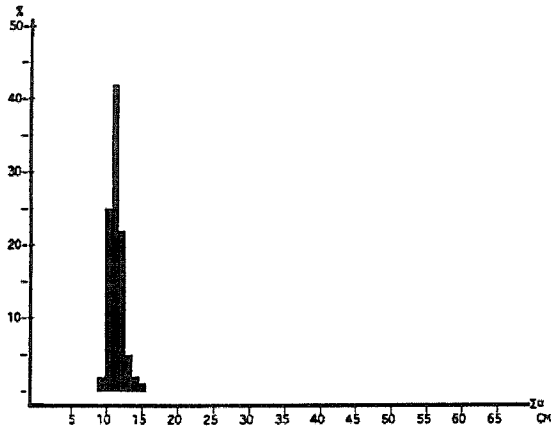
ANNEX I PROCESSED LENGTH DATA OF MAIN SPECIES

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE				N	MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE		
BELONIDAE							
<i>Belone svetovidovi</i>	23	36.00	48.00	41.93	15.92	15	0.1067
CARANGIDAE							
<i>Carangidae juveniles</i>	35	6.50	11.00	8.62	0.54	142	0.0082
<i>Decapterus punctatus</i>	60	13.50	22.50	18.53	1.69	65	0.0900
<i>Decapterus rhonchus</i>	8	20.00	41.00	23.53	9.94	58	0.2069
<i>Trachurus trachurus</i>	5	14.50	24.00	17.95	5.72	93	0.0688
	6	6.50	10.00	7.95	0.52	130	0.0050
	11	20.00	23.50	22.10	1.21	10	0.1450
	12	7.50	25.00	14.03	43.58	32	0.0531
	14	9.50	15.00	10.63	1.91	15	0.0167
	15	8.50	17.50	10.50	4.04	106	0.0146
	16	7.00	16.00	10.27	3.11	78	0.0115
	17	4.50	15.00	7.79	5.99	232	0.0060
	18	7.00	16.50	12.88	6.17	136	0.0271
	27	10.00	18.00	12.91	4.92	97	0.0268
	28	9.00	25.00	13.42	25.94	38	0.0395
	31	15.00	22.50	18.66	7.63	68	0.1015
	39	4.50	8.50	5.85	0.41	47	0.0030
	41	10.50	19.50	14.93	2.59	113	0.0394
	46	14.00	24.00	17.19	2.03	49	0.0612
	55	15.00	24.00	17.71	6.68	14	0.0786
	59	16.00	17.50	16.83	0.37	6	0.0583
	62	14.00	19.00	16.13	1.33	73	0.0548
	63	16.50	27.50	21.14	6.39	104	0.1058
	69	5.00	18.00	13.20	11.08	33	0.0364
<i>Trachurus picturatus</i>	63	14.00	23.00	19.23	6.05	33	0.0803
CLUPEIDAE							
<i>Sardina pilchardus</i>	1	9.50	15.00	10.90	0.63	146	0.0097
	3	10.00	19.00	12.05	1.53	132	0.0117
	4	9.50	14.00	11.18	0.91	97	0.0108
	5	13.00	17.00	14.11	0.42	117	0.0214
	8	14.00	19.50	16.41	1.57	114	0.0364
	9	13.00	20.00	15.08	0.95	126	0.0258
	12	16.00	20.50	17.86	1.43	25	0.0480
	14	14.50	22.00	16.77	2.28	169	0.0367
	15	14.50	21.50	17.68	2.45	73	0.0452
	16	6.50	16.50	14.31	4.16	52	0.0250
	17	13.50	17.50	14.98	0.62	109	0.0252
	18	14.50	22.50	18.66	2.65	101	0.0542
	19	12.00	23.00	18.18	7.23	100	0.0523
	20	10.00	23.00	13.52	9.40	199	0.0241
	21	9.50	21.00	12.32	2.04	125	0.0140
	27	14.50	23.50	17.64	3.83	110	0.0482
	29	15.00	18.00	16.01	0.40	100	0.0325

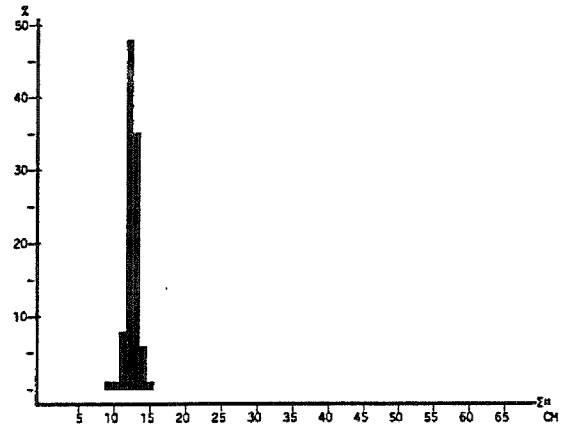
FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE				N	MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE		
<i>Sardina pilchardus</i> (cont.)							
	32	12.50	16.00	13.86	0.42	126	0.0198
	35	12.50	20.00	14.25	1.14	114	0.0232
	36	9.50	23.00	16.22	6.49	111	0.0351
	38	11.50	22.50	15.50	10.27	100	0.0335
	39	10.50	23.50	17.70	20.76	87	0.0529
	44	16.00	24.00	20.88	3.58	207	0.0725
	46	11.50	20.00	13.93	0.94	216	0.0192
	47	15.00	24.00	17.38	3.82	246	0.0400
	48	13.50	22.50	15.20	1.37	115	0.0257
	49	12.50	24.50	17.30	12.57	108	0.0421
	50	16.00	24.50	22.47	1.72	115	0.0817
	51	12.50	25.50	19.71	15.22	124	0.0594
	52	14.00	23.00	15.06	0.87	138	0.0254
	53	14.00	23.00	15.54	2.02	118	0.0280
	54	14.00	23.50	15.69	0.90	205	0.0278
	56	14.50	23.50	16.78	1.46	178	0.0362
	57	13.00	25.00	19.07	12.42	106	0.0514
	58	16.00	19.00	17.27	0.26	119	0.0429
	59	15.00	22.00	17.21	0.91	128	0.0383
	60	12.00	23.50	15.58	2.73	138	0.0297
	61	17.00	22.00	18.22	0.54	110	0.0455
	62	17.00	22.50	18.58	0.94	36	0.0542
	65	13.00	24.50	16.93	5.19	174	0.0362
	66	10.00	25.00	16.97	10.31	183	0.0399
	67	14.50	24.00	16.93	4.74	105	0.0395
	68	16.50	20.00	17.98	0.44	108	0.0449
	69	13.00	24.00	17.20	3.21	220	0.0400
	70	13.00	24.00	16.80	1.86	120	0.0383
<i>Sardinella aurita</i>							
	52	10.00	12.50	11.03	0.31	115	0.0152
	53	10.50	12.50	11.05	0.41	10	0.0250
	54	10.00	17.00	11.20	1.07	53	0.0160
	57	11.50	15.00	12.93	0.49	146	0.0151
	60	10.00	15.50	11.44	0.89	108	0.0114
	68	10.00	13.00	11.21	0.30	141	0.0191
	69	10.00	12.00	10.99	0.34	34	0.0147
ENGRAULIDIDAE							
<i>Engraulis encrasicolus</i>							
	1	9.00	15.00	12.54	0.87	121	0.0103
	3	10.50	14.50	12.57	0.48	119	0.0105
	4	7.50	13.50	12.09	0.67	117	0.0100
	6	12.00	15.00	13.10	0.32	102	0.0141
	9	4.00	4.50	4.10	0.05	5	0.0300
	14	8.00	15.50	12.30	1.74	110	0.0118
	15	14.00	16.50	14.86	0.39	108	0.0208
	16	5.50	17.00	8.58	8.24	277	0.0054
	17	10.00	15.50	12.62	2.73	52	0.0125
	18	10.50	13.50	11.79	0.75	12	0.0250
	20	8.50	12.00	10.10	0.49	175	0.0063
	21	7.00	11.00	9.09	0.76	134	0.0045
	27	10.00	15.00	11.97	1.11	194	0.0119
	28	9.00	16.50	14.28	2.17	196	0.0189
	30	8.00	16.00	11.75	4.95	136	0.0110

FAMILY/SPECIES	STATION	LENGTHS IN SAMPLE				N	MEAN W.
		LOWEST	HIGHEST	MEAN	VARIANCE		
Engraulis encrasicolus (cont.)							
	32	8.50	15.50	11.84	2.19	55	0.0127
	35	8.00	15.50	10.31	3.03	113	0.0066
	36	8.50	14.50	11.59	3.02	29	0.0121
	38	11.50	16.00	14.39	0.62	51	0.0196
	39	8.50	12.50	9.74	0.48	116	0.0059
	44	11.00	15.00	13.65	0.63	179	0.0151
	46	9.50	14.50	12.67	1.22	58	0.0121
	48	9.00	14.00	10.75	1.37	62	0.0097
	52	8.50	11.00	9.75	0.33	155	0.0065
	69	8.50	12.50	9.65	0.62	149	0.0060
SCOMBRIDAE							
Scomber japonicus							
	12	14.50	19.00	17.25	1.75	28	0.0464
	14	15.00	19.50	17.72	1.10	67	0.0463
	15	15.00	22.50	17.51	1.71	82	0.0466
	18	17.50	19.50	18.22	0.51	9	0.0556
	19	17.00	24.50	19.64	2.70	28	0.0750
	27	17.50	20.50	18.81	0.70	16	0.0656
	29	15.00	20.00	17.93	0.84	73	0.0500
	30	15.00	21.00	17.47	1.12	109	0.0440
	41	17.00	29.00	19.37	1.80	107	0.0650
Scomber scombrus							
	5	16.00	18.50	17.27	0.36	26	0.0442
SPARIDAE							
Diplodus bellottii							
	66	7.00	9.50	8.07	0.20	73	0.0030
TRICHIURIDAE							
Lepidopus caudatus							
	13	99.00	125.00	120.00	50.00	2	1.4850
	24	45.00	62.00	52.89	18.83	99	0.1091
	55	45.00	75.00	57.73	40.71	44	0.1386
	62	42.00	63.00	53.95	17.64	40	0.1075

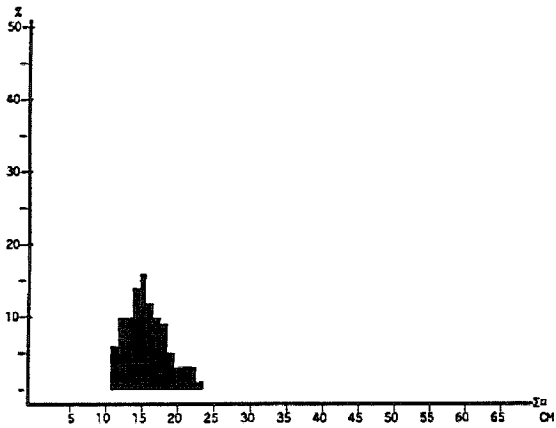
ANNEX II POOLED LENGTH DISTRIBUTIONS BY SPECIES AND REGIONS



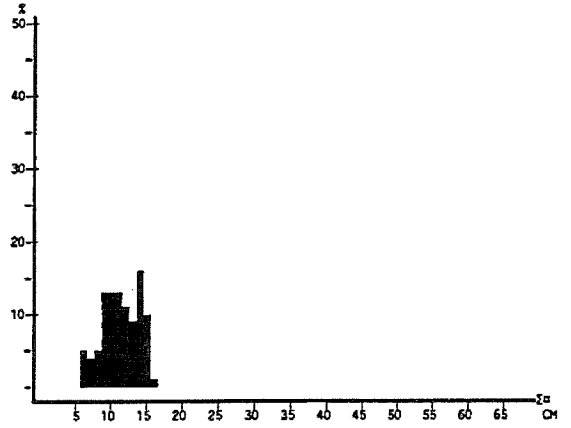
Sardina pilchardus
Safi - Agadir
Pooled sample (simple adding).
MEAN LENGTH = 11.16cm N= 375
NUMBER OF SUBSAMPLES : 3
SAMPLES FOUND BETWEEN ST. NO. 1 AND 4.
SAMPLES SEARCHED BETWEEN ST. NO. 1 AND 4 .



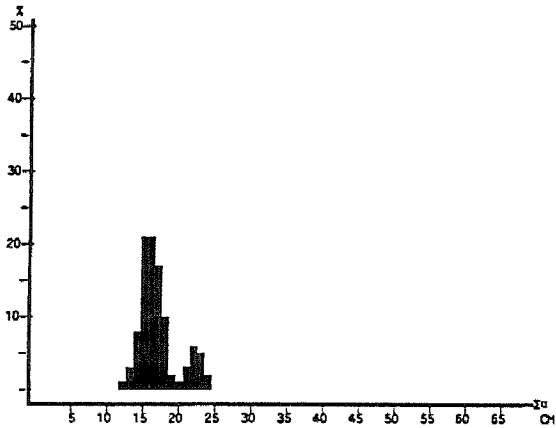
Engraulis encrasicolus
Safi - Agadir
Pooled sample (simple adding).
MEAN LENGTH = 12.35cm N= 459
NUMBER OF SUBSAMPLES : 4
SAMPLES FOUND BETWEEN ST. NO. 1 AND 6.
SAMPLES SEARCHED BETWEEN ST. NO. 1 AND 6 .



Sardina pilchardus
Agadir - Cape Juby
Pooled sample (simple adding).
MEAN LENGTH = 15.44cm N= 1827
NUMBER OF SUBSAMPLES : 17
SAMPLES FOUND BETWEEN ST. NO. 9 AND 39.
SAMPLES SEARCHED BETWEEN ST. NO. 9 AND 39 .



Engraulis encrasicolus
Agadir - Cape Juby
Pooled sample (simple adding).
MEAN LENGTH = 11.30cm N= 1937
NUMBER OF SUBSAMPLES : 16
SAMPLES FOUND BETWEEN ST. NO. 14 AND 44.
SAMPLES SEARCHED BETWEEN ST. NO. 14 AND 44 .



Sardina pilchardus
Cape Bojador - Cape Barbas
Pooled sample (simple adding).
MEAN LENGTH = 16.90cm N= 3317
NUMBER OF SUBSAMPLES : 23
SAMPLES FOUND BETWEEN ST. NO. 44 AND 70.
SAMPLES SEARCHED BETWEEN ST. NO. 44 AND 70 .

ANNEX III RECORDS OF FISHING STATIONS

PROJECT STATION: 1
 DATE:18/ 1/92 GEAR TYPE: PT No: POSITION:Lat N 3158 Long W 928
 start stop duration
 TIME :12:08:00 12:41:00 33 (min) Purpose code: 1
 LOG : 936.20 938.10 1.90 Area code : 1
 FDEPTH: 10 10 GearCond.code:
 BDEPTH: 20 17 Validity code:
 Towing dir: 30 Wire out: 150 m Speed: 3 kn*10
 Sorted: 95 Kg Total catch: 796.85 CATCH/HOUR: 1448.82

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Sardina pilchardus	698.49 72318	48.21	1
Lepidopus caudatus	424.24 258	29.28	
Engraulis encrasicolus	322.73 31242	22.28	2
Diplodus sargus *	3.36 4	0.23	
Total	796.85	100.00	

PROJECT STATION: 6
 DATE:19/ 1/92 GEAR TYPE: BT No:1 POSITION:Lat N 3146 Long W 941
 start stop duration
 TIME :14:55:00 15:25:00 30 (min) Purpose code: 1
 LOG :1171.10 1172.60 1.50 Area code : 1
 FDEPTH: 28 30 GearCond.code:
 BDEPTH: 28 30 Validity code:
 Towing dir: 31 Wire out: 200 m Speed: 30 kn*10
 Sorted: 32 Kg Total catch: 162.00 CATCH/HOUR: 324.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Trachurus trachurus	152.00 30400	46.91	10
Trisopterus luscus	42.00 1090	12.96	
Engraulis encrasicolus	41.00 2890	12.65	11
Lepidopus caudatus	20.00 190	6.17	
Allotheutis subulata	17.00	5.25	
Diplodus sargus *	12.00 20	3.70	
Merluccius merluccius	12.00 130	3.70	
Pagellus acarne	11.00 70	3.40	
Torpedo marmorata	10.00 10	3.09	
Umbra cirrosa	5.00 30	1.54	
Diplodus bellottii	2.00 10	0.62	
Total	324.00	99.99	

PROJECT STATION: 2
 DATE:18/ 1/92 GEAR TYPE: PT No: POSITION:Lat N 3128 Long W 953
 start stop duration
 TIME :20:55:00 21:25:00 30 (min) Purpose code: 1
 LOG :1014.10 1015.40 1.30 Area code : 1
 FDEPTH: 0 0 GearCond.code:
 BDEPTH: 28 27 Validity code: 4
 Towing dir: 180 Wire out: 150 m Speed: 26 kn*10
 Sorted: 3 Kg Total catch: 3.66 CATCH/HOUR: 7.32

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Lepidopus caudatus	6.80 10	92.90	
Loligo vulgaris	0.50 8	6.83	
Total	7.30	99.73	

PROJECT STATION: 7
 DATE:20/ 1/92 GEAR TYPE: BT No:1 POSITION:Lat N 3043 Long W 953
 start stop duration
 TIME :11:15:00 11:34:00 19 (min) Purpose code: 1
 LOG :1363.90 1364.80 0.90 Area code : 1
 FDEPTH: 35 37 GearCond.code:
 BDEPTH: 35 37 Validity code:
 Towing dir: 10 Wire out: 150 m Speed: 35 kn*10
 Sorted: 13 Kg Total catch: 13.65 CATCH/HOUR: 43.11

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Lepidopus caudatus	12.95 25	30.04	
Boops boops	11.68 41	27.09	
Diplodus sargus *	8.21 16	19.04	
Allotheutis subulata	4.26	9.88	
Chelidonichthys lucerna	4.26 9	9.88	
Loligo vulgaris	1.11 3	2.57	
Pagellus acarne	0.38 3	0.88	
Sardina pilchardus	0.25 3	0.58	
Total	43.10	99.96	

PROJECT STATION: 3
 DATE:19/ 1/92 GEAR TYPE: PT No: POSITION:Lat N 3156 Long W 923
 start stop duration
 TIME :03:25:00 03:56:00 30 (min) Purpose code: 1
 LOG : 73.40 75.00 1.60 Area code : 1
 FDEPTH: 10 10 GearCond.code:
 BDEPTH: 20 18 Validity code:
 Towing dir: 30 Wire out: 100 m Speed: 31 kn*10
 Sorted: 30 Kg Total catch: 472.70 CATCH/HOUR: 945.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Lepidopus caudatus	722.66 416	80.67	
Sardina pilchardus	120.00 10218	12.69	3
Engraulis encrasicolus	54.00 5140	5.71	4
Diplodus sargus *	8.70 6	0.92	
Trachurus trachurus	0.06 6	0.01	
Total	945.42	100.00	

PROJECT STATION: 8
 DATE:20/ 1/92 GEAR TYPE: PT No:1 POSITION:Lat N 3037 Long W 956
 start stop duration
 TIME :13:48:00 14:23:00 35 (min) Purpose code: 1
 LOG :1376.50 1378.60 2.10 Area code : 1
 FDEPTH: 40 65 GearCond.code:
 BDEPTH: 71 73 Validity code:
 Towing dir: 160 Wire out: 150 m Speed: 42 kn*10
 Sorted: 49 Kg Total catch: 129.85 CATCH/HOUR: 222.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Lepidopus caudatus	174.00 202	78.17	
Sardina pilchardus	27.43 766	12.32	13
Decapterus rhonchus	20.57 115	9.24	12
Loligo vulgaris	0.60 2	0.27	
Total	222.60	100.00	

PROJECT STATION: 4
 DATE:19/ 1/92 GEAR TYPE: PT No: POSITION:Lat N 3204 Long W 927
 start stop duration
 TIME :05:48:00 06:24:00 36 (min) Purpose code: 1
 LOG : 90.60 92.50 1.90 Area code : 1
 FDEPTH: 10 10 GearCond.code:
 BDEPTH: 23 30 Validity code:
 Towing dir: 270 Wire out: 150 m Speed: 31 kn*10
 Sorted: 55 Kg Total catch: 132.94 CATCH/HOUR: 221.57

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Lepidopus caudatus	117.33 63	52.95	
Sardina pilchardus	89.67 8283	40.47	5
Engraulis encrasicolus	13.23 1323	5.97	6
Merluccius merluccius	0.80 30	0.36	
Trachurus trachurus	0.03 10	0.01	
Total	221.06	99.76	

PROJECT STATION: 9
 DATE:21/ 1/92 GEAR TYPE: PT No:1 POSITION:Lat N 2949 Long W 956
 start stop duration
 TIME :03:30:00 04:00:00 30 (min) Purpose code: 1
 LOG :1501.20 1502.80 1.60 Area code : 1
 FDEPTH: 25 55 GearCond.code:
 BDEPTH: 60 65 Validity code:
 Towing dir: 230 Wire out: 150 m Speed: 36 kn*10
 Sorted: 36 Kg Total catch: 36.55 CATCH/HOUR: 73.10

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Sardina pilchardus	36.80 1426	50.34	14
Lepidopus caudatus	28.40 24	38.85	
Allotheutis subulata	4.30	5.88	
Diplodus vulgaris	1.50 4	2.05	
Decapterus rhonchus	1.20 2	1.64	
Illex colodetii	0.60 4	0.82	
Engraulis encrasicolus	0.30 10	0.41	15
Total	73.10	99.99	

PROJECT STATION: 5
 DATE:19/ 1/92 GEAR TYPE: BT No:1 POSITION:Lat N 3208 Long W 945
 start stop duration
 TIME :09:34:00 10:00:00 26 (min) Purpose code: 1
 LOG :1121.60 1123.10 1.50 Area code : 1
 FDEPTH: 71 52 GearCond.code:
 BDEPTH: 71 52 Validity code:
 Towing dir: 97 Wire out: 350 m Speed: 30 kn*10
 Sorted: 62 Kg Total catch: 62.18 CATCH/HOUR: 143.49

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Sardina pilchardus	40.15 1878	27.98	7
Lepidopus caudatus	37.96 35	26.45	
Pagellus bellottii	23.61 228	16.45	
Allotheutis subulata	21.30 5843	14.84	
Trachurus trachurus	20.88 305	14.55	8
Merluccius merluccius	5.33 18	3.71	
Pagellus acarne	4.04 21	2.82	
Scomber scombrus	2.65 60	1.85	9
Loligo vulgaris	1.85 7	1.29	
Chelidonichthys cuculus	1.38 2	0.96	
Mullus barbatus	0.92 2	0.64	
Pagellus erythrinus	0.92 9	0.64	
Boops boops	0.39 2	0.27	
Total	161.38	112.45	

PROJECT STATION: 10
 DATE:21/ 1/92 GEAR TYPE: PT No:1 POSITION:Lat N 2944 Long W 1007
 start stop duration
 TIME :07:24:00 07:54:00 30 (min) Purpose code: 1
 LOG :1532.40 1534.30 1.90 Area code : 1
 FDEPTH: 20 30 GearCond.code:
 BDEPTH: 78 70 Validity code:
 Towing dir: 230 Wire out: 100 m Speed: 40 kn*10
 Sorted: 3 Kg Total catch: 3.00 CATCH/HOUR: 6.00

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
	weight numbers		
Mola mola	6.00 2	100.00	
Total	6.00	100.00	

PROJECT STATION: 11
 DATE:21/ 1/92 GEAR TYPE: BT No:1 POSITION:Lat N 2937 Long W 1026
 TIME :11:30:00 11:37:00 7 (min) Purpose code: 1
 LOG :1567.30 1567.50 0.20 Area code : 1
 FDEPTH: 99 107 GearCond.code: 1
 BDEPTH: 99 107 Validity code: 2
 Towing dir: 305 Wire out: 500 m Speed: 25 kn*10

Sorted: 59 Kg Total catch: 59.35 CATCH/HOUR: 508.71

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Anthias anthias	235.97	46.39	
Zeus faber	192.00	37.74	
Callanthias ruber	40.03	7.87	
Trachurus trachurus	12.43	2.44	16
Torpedo torpedo	11.14	2.19	
Dentex macrophthalmus	6.00	1.18	
Diplodus sargus *	3.86	0.76	
Pagellus acarne	3.43	0.67	
Phycis blennoides	2.57	0.51	
Capros aper	1.29	0.25	
Total	508.72	100.00	

PROJECT STATION: 16
 DATE:22/ 1/92 GEAR TYPE: BT No:1 POSITION:Lat N 2837 Long W 1116
 TIME :23:38:00 00:08:00 30 (min) Purpose code: 1
 LOG :1834.60 1836.00 1.40 Area code : 1
 FDEPTH: 28 34 GearCond.code: 1
 BDEPTH: 28 34 Validity code: 2
 Towing dir: 320 Wire out: 150 m Speed: 30 kn*10

Sorted: 9 Kg Total catch: 9.04 CATCH/HOUR: 18.08

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Solea vulgaris	5.70	31.53	
Engraulis encrasicolus	2.98	55.4	29
Sardina pilchardus	2.60	104	30
Allotheutis subulata	2.00	11.06	
Trachurus trachurus	1.80	116	31
Torpedo torpedo	1.80	2	
Pomadasys incisus	0.20	4	
Boops boops	0.16	2	
Scomber japonicus	0.16	2	
Pagellus acarne	0.14	2	
Chelidonichthys lucerna	0.12	2	
Pagellus erythrinus	0.12	2	
Trisopterus luscus	0.10	2	
Loligo vulgaris	0.10	2	
Cepola sp.	0.10	0.55	
Total	18.08	99.98	

PROJECT STATION: 12
 DATE:21/ 1/92 GEAR TYPE: PT No: POSITION:Lat N 2918 Long W 1018
 TIME :20:06:00 20:20:00 14 (min) Purpose code: 1
 LOG :1645.90 1646.50 0.60 Area code : 1
 FDEPTH: 10 10 GearCond.code: 5
 BDEPTH: 19 19 Validity code: 3
 Towing dir: 245 Wire out: 150 m Speed: 25 kn*10

Sorted: 75 Kg Total catch: 75.27 CATCH/HOUR: 322.59

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Diplodus vulgaris	125.36	1119	38.86
Sciaena umbra	86.57	137	26.84
Diplodus bellottii	44.36	630	13.75
Pagellus acarne	30.86	167	9.57
Pomadasys incisus	14.36	176	4.45
Sepia officinalis hierredda	10.29	9	3.19
Trachurus trachurus	7.29	137	2.26
Alosa alosa	2.87	4	0.89
Loligo vulgaris	0.64	4	0.20
Total	322.60	100.01	

PROJECT STATION: 17
 DATE:23/ 1/92 GEAR TYPE: BT No:1 POSITION:Lat N 2837 Long W 1118
 TIME :01:12:00 01:42:00 30 (min) Purpose code: 1
 LOG :1843.00 1845.30 2.30 Area code : 1
 FDEPTH: 31 29 GearCond.code: 1
 BDEPTH: 31 29 Validity code: 2
 Towing dir: 80 Wire out: 250 m Speed: 32 kn*10

Sorted: 8 Kg Total catch: 8.88 CATCH/HOUR: 17.76

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Sardina pilchardus	6.50	36.60	33
Solea vulgaris	3.10	17.45	
Trachurus trachurus	2.80	464	32
Engraulis encrasicolus	2.20	12.39	34
Pagellus acarne	0.70	6	3.94
Loligo vulgaris	0.50	2	2.82
Scomber japonicus	0.50	8	2.82
Merluccius merluccius	0.30	2	1.69
SCORPAENIDAE	0.20	2	1.13
Pagellus erythrinus	0.16	2	0.90
Loligo vulgaris	0.08	4	0.45
Total	17.04	95.96	

PROJECT STATION: 13
 DATE:22/ 1/92 GEAR TYPE: PT No:2 POSITION:Lat N 2844 Long W 1114
 TIME :16:50:00 17:26:00 36 (min) Purpose code: 1
 LOG :1788.60 1790.40 1.80 Area code : 1
 FDEPTH: 25 40 GearCond.code: 1
 BDEPTH: 54 47 Validity code: 2
 Towing dir: 210 Wire out: 75 m Speed: 30 kn*10

Sorted: 5 Kg Total catch: 5.58 CATCH/HOUR: 9.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Lepidopus caudatus	5.00	3	53.76
Scomber japonicus	2.17	47	23.33
Sardina pilchardus	2.00	42	21.51
Engraulis encrasicolus	0.13	3	1.40
Total	9.30	100.00	

PROJECT STATION: 18
 DATE:23/ 1/92 GEAR TYPE: PT No:4 POSITION:Lat N 2829 Long W 1126
 TIME :06:35:00 07:05:00 30 (min) Purpose code: 1
 LOG :1889.30 1890.80 1.50 Area code : 1
 FDEPTH: 10 25 GearCond.code: 1
 BDEPTH: 29 33 Validity code: 2
 Towing dir: 220 Wire out: 100 m Speed: 30 kn*10

Sorted: 30 Kg Total catch: 138.93 CATCH/HOUR: 277.86

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Sardina pilchardus	180.90	3340	65.10
Diplodus bellottii	40.96	522	14.74
Trachurus trachurus	31.50	1164	11.34
Pomadasys incisus	9.00	288	3.24
Scomber japonicus	4.50	82	1.62
Engraulis encrasicolus	2.70	108	0.97
Merluccius merluccius	2.70	28	0.97
Chelidonichthys lucerna	1.98	18	0.71
Diplodus vulgaris	1.80	10	0.65
Pagellus bellottii	1.36	18	0.49
Pagellus acarne	0.46	10	0.17
Total	277.86	100.00	

PROJECT STATION: 14
 DATE:22/ 1/92 GEAR TYPE: PT No:2 POSITION:Lat N 2841 Long W 1114
 TIME :20:12:00 20:42:00 30 (min) Purpose code: 1
 LOG :1813.60 1815.00 1.40 Area code : 1
 FDEPTH: 18 18 GearCond.code: 1
 BDEPTH: 37 39 Validity code: 3
 Towing dir: 240 Wire out: 50 m Speed: 30 kn*10

Sorted: 88 Kg Total catch: 88.71 CATCH/HOUR: 177.42

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Sardina pilchardus	129.92	3750	73.23
Scomber japonicus	35.80	774	20.18
Engraulis encrasicolus	11.20	948	6.31
Trachurus trachurus	0.50	30	0.28
Total	177.42	100.00	

PROJECT STATION: 19
 DATE:23/ 1/92 GEAR TYPE: PT No:4 POSITION:Lat N 2819 Long W 1143
 TIME :15:21:00 15:59:00 38 (min) Purpose code: 1
 LOG :1966.90 1968.60 1.70 Area code : 1
 FDEPTH: 10 25 GearCond.code: 1
 BDEPTH: 38 35 Validity code: 2
 Towing dir: 250 Wire out: 100 m Speed: 28 kn*10

Sorted: 41 Kg Total catch: 41.20 CATCH/HOUR: 65.05

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Sardina pilchardus	61.74	1192	94.91
Scomber japonicus	3.32	44	5.10
Total	65.06	100.01	

PROJECT STATION: 15
 DATE:22/ 1/92 GEAR TYPE: BT No:1 POSITION:Lat N 2842 Long W 1119
 TIME :21:41:00 22:11:00 30 (min) Purpose code: 1
 LOG :1821.30 1822.80 1.50 Area code : 1
 FDEPTH: 62 59 GearCond.code: 1
 BDEPTH: 62 59 Validity code: 2
 Towing dir: 60 Wire out: 300 m Speed: 30 kn*10

Sorted: 29 Kg Total catch: 73.53 CATCH/HOUR: 147.06

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Scomber japonicus	61.00	1310	41.48
Trachurus trachurus	37.50	2564	25.50
Engraulis encrasicolus	17.00	816	11.56
Sardina pilchardus	16.50	316	11.22
Octopus vulgaris	10.00	6	6.80
Pagellus acarne	3.50	16	2.38
Trisopterus luscus	0.80	6	0.54
Pagellus erythrinus	0.76	6	0.52
Total	147.06	100.00	

PROJECT STATION: 20
 DATE: 23/ 1/92 GEAR TYPE: PT No:4 POSITION: Lat N 2818 Long W 1149
 start stop duration Purpose code: 1
 TIME :19:53:00 20:23:00 30 (min) Area code : 1
 LOG :1998.60 2000.40 1.80 GearCond.code: 1
 FDEPTH: 10 15 Validity code:
 BDEPTH: 35 36
 Towing dir: 240 Wire out: 50 m Speed: 35 kn*10
 Sorted: 92 Kg Total catch: 92.88 CATCH/HOUR: 185.76

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	171.24	7100	92.18	41
Engraulis encrasicolus	14.52	2290	7.82	42
Total	185.76		100.00	

PROJECT STATION: 21
 DATE: 24/ 1/92 GEAR TYPE: PT No:2 POSITION: Lat N 2813 Long W 1200
 start stop duration Purpose code: 1
 TIME :01:21:00 01:51:00 30 (min) Area code : 1
 LOG :2045.60 2047.10 1.50 GearCond.code: 3
 FDEPTH: 20 30 Validity code: 4
 BDEPTH: 36 37
 Towing dir: 260 Wire out: 50 m Speed: 31 kn*10
 Sorted: 13 Kg Total catch: 13.45 CATCH/HOUR: 26.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pagellus acarne	11.00	24	40.89	
Sardina pilchardus	8.20	586	30.48	43
Engraulis encrasicolus	4.60	1026	17.10	44
Loligo vulgaris	2.80		10.41	
Carangidae juveniles	0.30	24	1.12	
Total	26.90		100.00	

PROJECT STATION: 22
 DATE: 24/ 1/92 GEAR TYPE: PT No:2 POSITION: Lat N 2816 Long W 1212
 start stop duration Purpose code: 1
 TIME :07:00:00 07:30:00 30 (min) Area code : 1
 LOG :2093.80 2095.40 1.60 GearCond.code: 1
 FDEPTH: 15 15 Validity code:
 BDEPTH: 45 45
 Towing dir: 70 Wire out: 50 m Speed: 30 kn*10
 Sorted: Kg Total catch: 0.10 CATCH/HOUR: 0.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Belone svetovidovi	0.20	2	100.00	
Total	0.20		100.00	

PROJECT STATION: 23
 DATE: 24/ 1/92 GEAR TYPE: PT No:4 POSITION: Lat N 2806 Long W 1231
 start stop duration Purpose code: 1
 TIME :15:52:00 16:22:00 30 (min) Area code : 1
 LOG :2176.50 2178.00 1.50 GearCond.code: 1
 FDEPTH: 0 10 Validity code:
 BDEPTH: 41 40
 Towing dir: 180 Wire out: 150 m Speed: 32 kn*10
 Sorted: 1 Kg Total catch: 1.60 CATCH/HOUR: 3.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Belone svetovidovi	3.20	30	100.00	45
Carangidae juveniles	0.00	10		
Total	3.20		100.00	

PROJECT STATION: 24
 DATE: 25/ 1/92 GEAR TYPE: BT No:1 POSITION: Lat N 2827 Long W 1258
 start stop duration Purpose code: 1
 TIME :03:24:00 03:54:00 30 (min) Area code : 1
 LOG :2283.60 2285.20 1.60 GearCond.code: 2
 FDEPTH: 255 250 Validity code:
 BDEPTH: 255 250
 Towing dir: 240 Wire out: 850 m Speed: 30 kn*10
 Sorted: 24 Kg Total catch: 98.25 CATCH/HOUR: 196.50

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lepidopus caudatus	108.00	990	54.96	46
Parapenaeus longirostris	21.50	10	10.94	
Merluccius merluccius	18.00	100	9.16	
OPHICHTHIDAE	13.00	210	6.62	
Lophius budegassa	11.40	2	5.80	
Capros aper	8.00	270	4.07	
Hollus barbatus	4.00	10	2.04	
Zeus faber	3.00	30	1.53	
Dentex maroccanus	2.00	10	1.02	
Trachurus trachurus	2.00	10	1.02	
MYCTOPHIDAE	1.70	130	0.87	
Macrorhamphosus scolopax	1.70	90	0.87	
Callionymus sp.	1.00	20	0.51	
Raja mizaletus	1.00	10	0.51	
ARGENTINIDAE	0.20	20	0.10	
Total	196.50		100.02	

PROJECT STATION: 25
 DATE: 25/ 1/92 GEAR TYPE: PT No:2 POSITION: Lat N 2834 Long W 1242
 start stop duration Purpose code: 1
 TIME :11:40:00 12:25:00 45 (min) Area code : 1
 LOG :2356.30 2358.70 2.40 GearCond.code: 1
 FDEPTH: 60 65 Validity code:
 BDEPTH: 103 136
 Towing dir: 337 Wire out: 100 m Speed: 33 kn*10
 Sorted: 20 Kg Total catch: 408.00 CATCH/HOUR: 544.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Macrorhamphosus scolopax	544.00	60444	100.00	
Total	544.00		100.00	

PROJECT STATION: 26
 DATE: 25/ 1/92 GEAR TYPE: PT No:2 POSITION: Lat N 2844 Long W 1231
 start stop duration Purpose code: 1
 TIME :14:47:00 15:17:00 30 (min) Area code : 1
 LOG :2377.10 2378.70 1.60 GearCond.code: 3
 FDEPTH: 70 100 Validity code: 9
 BDEPTH: 140 154
 Towing dir: 240 Wire out: 250 m Speed: 28 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: 27
 DATE: 25/ 1/92 GEAR TYPE: PT No:2 POSITION: Lat N 2825 Long W 1134
 start stop duration Purpose code: 1
 TIME :21:25:00 22:10:00 45 (min) Area code : 1
 LOG :2434.90 2437.30 2.40 GearCond.code: 1
 FDEPTH: 20 25 Validity code:
 BDEPTH: 45 45
 Towing dir: 240 Wire out: 50 m Speed: 30 kn*10
 Sorted: 35 Kg Total catch: 35.19 CATCH/HOUR: 46.92

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pagellus acarne	18.80	73	40.07	
Sardina pilchardus	9.47	196	26.18	48
Engraulis encrasicolus	8.13	685	17.33	50
Trachurus trachurus	3.47	129	7.40	49
Pagellus bellottii	3.07	17	6.54	
Trachinus vipera	1.53	24	3.26	
Scomber japonicus	1.40	21	2.98	47
Chelidonichthys lucerna	1.05	1	2.24	
Total	46.92		100.00	

PROJECT STATION: 28
 DATE: 26/ 1/92 GEAR TYPE: BT No:1 POSITION: Lat N 2836 Long W 1125
 start stop duration Purpose code: 1
 TIME :08:56:00 09:26:00 30 (min) Area code : 1
 LOG :2542.40 2544.00 1.60 GearCond.code: 1
 FDEPTH: 57 58 Validity code:
 BDEPTH: 57 58
 Towing dir: 250 Wire out: 300 m Speed: 32 kn*10
 Sorted: 56 Kg Total catch: 221.95 CATCH/HOUR: 443.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Engraulis encrasicolus	386.00	20978	89.21	52
Loligo vulgaris	19.90	30	4.48	
Chelidonichthys lucerna	11.30	34	2.55	
Merluccius senegalensis	5.00	22	1.13	
Zeus faber	3.50	2	0.79	
Trachurus trachurus	3.00	76	0.68	51
Octopus vulgaris	3.00	2	0.68	
Pagellus acarne	1.80	4	0.41	
Diplodus vulgaris	0.40	2	0.09	
Total	443.90		100.02	

PROJECT STATION: 29
 DATE: 26/ 1/92 GEAR TYPE: PT No:2 POSITION: Lat N 2840 Long W 1115
 start stop duration Purpose code: 1
 TIME :11:05:00 11:48:00 43 (min) Area code : 1
 LOG :2557.00 2559.30 2.30 GearCond.code: 1
 FDEPTH: 10 15 Validity code:
 BDEPTH: 34 36
 Towing dir: 240 Wire out: 50 m Speed: 35 kn*10
 Sorted: 17 Kg Total catch: 17.65 CATCH/HOUR: 24.63

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	19.53	601	79.29	54
Scomber japonicus	5.09	102	20.67	53
Total	24.62		99.96	

PROJECT STATION: 30
 DATE: 26/ 1/92 GEAR TYPE: PT No:2 POSITION: Lat N 2838 Long W 1121
 start stop duration Purpose code: 1
 TIME :13:55:00 14:27:00 32 (min) Area code : 1
 LOG :2576.80 2578.50 1.70 GearCond.code: 1
 FDEPTH: 30 45 Validity code:
 BDEPTH: 49 46
 Towing dir: 210 Wire out: 100 m Speed: 32 kn*10
 Sorted: 31 Kg Total catch: 90.80 CATCH/HOUR: 170.25

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Scomber japonicus	92.25	2094	54.19	55
Engraulis encrasicolus	68.06	6171	39.98	56
Zeus faber	4.31	2	2.53	
Sardina pilchardus	3.38	49	1.99	
Loligo vulgaris	1.69	6	0.99	
Trachurus juveniles	0.56	28	0.33	
Total	170.25		100.01	

PROJECT STATION: 31
 DATE: 26/ 1/92 GEAR TYPE: BT No:1 POSITION: Lat N 2907 Long W 1128
 start stop duration Purpose code: 1
 TIME :13:49:00 19:17:00 28 (min) Area code : 1
 LOG :2618.60 2619.70 1.10 GearCond.code: 1
 FDEPTH: 127 116 Validity code:
 BDEPTH: 127 116
 Towing dir: 165 Wire out: 550 m Speed: 25 kn*10
 Sorted: 58 Kg Total catch: 159.90 CATCH/HOUR: 342.64

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Lagocephalus laevigatus	96.43	51	28.14	
Dentex macrophthalmus	68.14	636	19.09	
Pagellus acarne	51.43	193	15.01	
Trachurus trachurus	44.36	437	12.95	57
Zeus faber	25.71	26	7.50	
Hola hola	18.00	6	5.25	
Loligo vulgaris	12.21	19	3.56	
Merluccius merluccius	5.79	26	1.69	
Peristodion sp.	5.79	19	1.69	
Macrorhamphosus scolopax	5.46	386	1.59	
Scyliorhinus canicula	5.14	6	1.50	
Dentex maroccanus	2.09	6	0.64	
MULLIDAE	1.29	6	0.38	
Total	342.64		99.99	

PROJECT STATION: 32
 DATE: 27/ 1/92 GEAR TYPE: PT No:2 POSITION: Lat N 2909 Long W 1028
 start stop duration
 TIME :03:10:00 03:44:00 34 (min) Purpose code: 1
 LOG :2693.60 2695.20 1.60 Area code : 1
 FDEPTH: 5 15 GearCond.code:
 BDEPTH: 31 35 Validity code:
 Towing dir: 41 Wire out: 100 m Speed: 31 kn*10

Sorted: 74 Kg Total catch: 74.90 CATCH/HOUR: 132.18

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Lepidopus caudatus	75.88	39	57.41
Sardina pilchardus	31.94	1609	24.16
Pagellus acarne	9.53	104	7.21
Diplodus bellottii	4.24	41	3.21
Zeus faber	3.18	2	2.41
Carangidae juveniles	2.12	251	1.60
Engraulis encrasicolus	1.24	97	0.94
Pomadasys incisus	1.24	18	0.94
Allothetis subulata	1.06	0	0.80
Diplodus vulgaris	0.62	4	0.47
Trachurus trachurus	0.44	4	0.33
Sepia officinalis hierredda	0.35	2	0.26
Dentex maroccanus	0.35	2	0.26
Total	132.19	100.00	

PROJECT STATION: 33
 DATE: 27/ 1/92 GEAR TYPE: PT No:4 POSITION: Lat N 2915 Long W 1022
 start stop duration
 TIME :05:18:00 05:48:00 30 (min) Purpose code: 1
 LOG :2705.10 2706.40 1.30 Area code : 1
 FDEPTH: 0 0 GearCond.code:
 BDEPTH: 32 36 Validity code:
 Towing dir: 320 Wire out: 100 m Speed: 30 kn*10

Sorted: Kg Total catch: 0.80 CATCH/HOUR: 1.60

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Pagellus acarne	0.60	2	37.50
Diplodus bellottii	0.40	2	25.00
Sardina pilchardus	0.30	6	18.75
Loligo vulgaris	0.20	14	12.50
Octopus vulgaris	0.10	2	6.25
Total	1.60	100.00	

PROJECT STATION: 34
 DATE: 27/ 1/92 GEAR TYPE: BT No:1 POSITION: Lat N 2927 Long W 1041
 start stop duration
 TIME :08:45:00 09:06:00 21 (min) Purpose code: 1
 LOG :2732.50 2733.80 1.10 Area code : 1
 FDEPTH: 115 122 GearCond.code:
 BDEPTH: 115 122 Validity code:
 Towing dir: 25 Wire out: 500 m Speed: 30 kn*10

Sorted: 56 Kg Total catch: 354.00 CATCH/HOUR: 1011.43

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Callanthias ruber	651.43		64.41
Zeus faber	360.00	169	35.59
Total	1011.43	100.00	

PROJECT STATION: 35
 DATE: 27/ 1/92 GEAR TYPE: PT No:4 POSITION: Lat N 2909 Long W 1030
 start stop duration
 TIME :13:48:00 14:18:00 30 (min) Purpose code: 1
 LOG :2762.60 2764.10 1.50 Area code : 1
 FDEPTH: 10 10 GearCond.code:
 BDEPTH: 33 36 Validity code:
 Towing dir: 245 Wire out: 100 m Speed: 30 kn*10

Sorted: 46 Kg Total catch: 76.40 CATCH/HOUR: 156.80

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Sardina pilchardus	93.60	4024	59.69
Carangidae juveniles	22.80	2280	14.54
Lepidopus caudatus	14.80	8	9.44
Engraulis encrasicolus	4.80	724	3.06
Zeus faber	4.80	4	3.06
Diplodus sargus *	4.60	2	2.93
Sepia officinalis hierredda	3.60	2	2.30
Pagellus acarne	1.80	16	1.15
Loligo vulgaris	1.60	4	1.02
Chelidonichthys lucerna	1.40	8	0.89
Scomber japonicus	0.80	4	0.51
Diplodus bellottii	0.80	8	0.51
Pomadasys incisus	0.60	8	0.38
Phycis blennoides	0.40	4	0.26
Microchirus variegatus	0.20	4	0.13
Trachinus draco	0.20	4	0.13
Total	156.80	100.00	

PROJECT STATION: 36
 DATE: 28/ 1/92 GEAR TYPE: PT No:4 POSITION: Lat N 2906 Long W 1032
 start stop duration
 TIME :02:43:00 03:13:00 30 (min) Purpose code: 1
 LOG :2883.40 2885.00 1.60 Area code : 1
 FDEPTH: 5 5 GearCond.code:
 BDEPTH: 32 27 Validity code:
 Towing dir: 116 Wire out: 100 m Speed: 30 kn*10

Sorted: 65 Kg Total catch: 205.65 CATCH/HOUR: 411.30

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Lepidopus caudatus	356.80	196	86.75
Sardina pilchardus	35.40	1008	8.61
Carangidae juveniles	5.80		1.41
Pagellus acarne	4.00	8	0.97
Diplodus bellottii	3.50	42	0.85
Merluccius senegalensis	1.40	30	0.34
Loligo vulgaris	1.30		0.32
Pomadasys incisus	1.00	12	0.24
Engraulis encrasicolus	0.70	58	0.17
Diplodus vulgaris	0.60	2	0.15
Chelidonichthys lucerna	0.60	6	0.15
Spondyliosoma cantharus	0.20	2	0.05
Total	411.30	100.01	

PROJECT STATION: 37
 DATE: 28/ 1/92 GEAR TYPE: PT No:2 POSITION: Lat N 2859 Long W 1041
 start stop duration
 TIME :07:15:00 07:35:00 20 (min) Purpose code: 1
 LOG :2921.80 2923.00 1.20 Area code : 1
 FDEPTH: 11 13 GearCond.code:
 BDEPTH: 37 31 Validity code:
 Towing dir: 115 Wire out: 50 m Speed: 30 kn*10

Sorted: 12 Kg Total catch: 12.90 CATCH/HOUR: 38.70

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Lepidopus caudatus	34.80	18	89.92
Zeus faber	3.90	3	10.08
Total	38.70	100.00	

PROJECT STATION: 38
 DATE: 28/ 1/92 GEAR TYPE: PT No:2 POSITION: Lat N 2817 Long W 1143
 start stop duration
 TIME :16:01:00 16:36:00 35 (min) Purpose code: 1
 LOG :3005.20 3007.40 2.20 Area code : 1
 FDEPTH: 10 10 GearCond.code:
 BDEPTH: 30 29 Validity code:
 Towing dir: 40 Wire out: 50 m Speed: 35 kn*10

Sorted: 29 Kg Total catch: 58.50 CATCH/HOUR: 100.29

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Sardina pilchardus	91.54	2733	91.28
Trachurus trachurus	4.11	14	4.10
Engraulis encrasicolus	3.26	168	3.25
Campogamma glaycos	0.69	3	0.69
Scomber japonicus	0.69	10	0.69
Total	100.29	100.01	

PROJECT STATION: 39
 DATE: 28/ 1/92 GEAR TYPE: PT No:4 POSITION: Lat N 2813 Long W 1155
 start stop duration
 TIME :20:03:00 20:33:00 30 (min) Purpose code: 1
 LOG :3037.90 3039.60 1.70 Area code : 1
 FDEPTH: 10 10 GearCond.code:
 BDEPTH: 29 28 Validity code:
 Towing dir: 75 Wire out: 100 m Speed: 34 kn*10

Sorted: 35 Kg Total catch: 140.36 CATCH/HOUR: 280.72

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Engraulis encrasicolus	159.20	27156	56.71
Sardina pilchardus	88.00	1664	31.35
Zeus faber	20.40	8	7.27
Merluccius senegalensis	12.00	248	4.27
Trachurus trachurus	1.12	376	0.40
Total	280.72	100.00	

PROJECT STATION: 40
 DATE: 29/ 1/92 GEAR TYPE: BT No:1 POSITION: Lat N 2735 Long W 1331
 start stop duration
 TIME :11:23:00 11:53:00 30 (min) Purpose code: 1
 LOG :3189.00 3190.60 1.60 Area code : 1
 FDEPTH: 97 97 GearCond.code:
 BDEPTH: 97 97 Validity code:
 Towing dir: 210 Wire out: 450 m Speed: 31 kn*10

Sorted: 18 Kg Total catch: 18.70 CATCH/HOUR: 37.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Macrorhamphosus scolopax	28.60	3010	76.47
Pagellus acarne	2.60	18	6.95
Dentex macropthalmus	2.50	58	6.68
Loligo vulgaris	1.60	2	4.28
Merluccius merluccius	1.00	2	2.67
Trachurus trachurus	0.50	8	1.34
Chelidonichthys lastoviza	0.40	2	1.07
Trachinus vipera	0.20	2	0.53
Total	37.40	99.99	

PROJECT STATION: 41
 DATE: 30/ 1/92 GEAR TYPE: BT No:1 POSITION: Lat N 2645 Long W 1404
 start stop duration
 TIME :10:32:00 11:02:00 30 (min) Purpose code: 1
 LOG :3416.80 3418.40 1.60 Area code : 1
 FDEPTH: 100 99 GearCond.code:
 BDEPTH: 100 99 Validity code:
 Towing dir: 235 Wire out: 450 m Speed: 32 kn*10

Sorted: 58 Kg Total catch: 117.20 CATCH/HOUR: 234.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Trachurus trachurus	79.00	2004	33.70
Scomber japonicus	56.80	874	24.23
Pagellus acarne	56.40	272	24.06
Dentex macropthalmus	27.20	512	11.60
Zeus faber	11.20	20	4.78
Trachurus picturatus	5.30	66	2.26
Pagellus erythrinus	1.20	4	0.51
Merluccius merluccius	1.00	4	0.43
Loligo vulgaris	0.60	4	0.26
Illex coindetii	0.20	4	0.09
Total	238.90	101.92	

PROJECT STATION: 42
 DATE: 30/ 1/92 GEAR TYPE: PT No:2 POSITION: Lat N 2636 Long W 1412
 start stop duration
 TIME :15:13:00 15:43:00 30 (min) Purpose code: 1
 LOG :3456.80 3458.50 1.70 Area code : 1
 FDEPTH: 20 20 GearCond.code:
 BDEPTH: 85 86 Validity code:
 Towing dir: 250 Wire out: 100 m Speed: 33 kn*10

Sorted: 34 Kg Total catch: 34.20 CATCH/HOUR: 68.40

SPECIES	CATCH/HOUR	% OF TOT. C	SAMP.NO.
weight	numbers		
Macrorhamphosus scolopax	68.40	7200	100.00
Total	68.40	100.00	

PROJECT STATION: 43
 DATE: 3/ 2/92 GEAR TYPE: BT No:1 POSITION:Lat N 2540 Long W 1524
 start stop duration Purpose code: 1
 TIME :09:33:00 10:03:00 30 (min) Area code : 1
 LOG :3069.90 3871.50 1.60 GearCond.code: 1
 FDEPTH: 159 162 Validity code: 3
 BDEPTH: 159 162
 Towing dir: 90 Nike out: 650 m Speed: 32 kn*10
 Sorted: 23 Kg Total catch: 439.83 CATCH/HOUR: 879.66

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Mesorhynchus scolopax	543.40		61.77	
Dentex macrophtalmus	134.90	1976	15.34	
Lepidopus caudatus	106.40	760	12.10	
Lagocephalus laevigatus	34.20	38	3.89	
Dentex macouccatus	28.50	494	3.24	
Capros eper	20.90	2584	2.38	
Callanthias ruber	5.70	418	0.65	
Merluccius senegalensis	4.90	4	0.56	
Loligo vulgaris	0.76		0.09	
Total	879.66		100.02	

PROJECT STATION: 49
 DATE: 5/ 2/92 GEAR TYPE: PT No: POSITION:Lat N 2440 Long W 1503
 start stop duration Purpose code: 1
 TIME :04:07:00 04:37:00 30 (min) Area code : 1
 LOG :4249.10 4250.70 1.60 GearCond.code: 1
 FDEPTH: 5 5 Validity code: 3
 BDEPTH: 23 22
 Towing dir: 270 Wire out: 100 m Speed: 33 kn*10
 Sorted: 30 Kg Total catch: 619.40 CATCH/HOUR: 1238.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	1220.00	28958	98.48	80
Trachurus trachurus	16.00	240	1.29	
Pagellus acarne	1.20	40	0.10	
Engraulis encrasiocolus	1.20	80	0.10	
Carangidae juveniles	0.40	40	0.03	
Total	1238.80		100.00	

PROJECT STATION: 44
 DATE: 3/ 2/92 GEAR TYPE: PT No:4 POSITION:Lat N 2519 Long W 1500
 start stop duration Purpose code: 1
 TIME :22:12:00 22:42:00 30 (min) Area code : 1
 LOG :3988.60 3990.00 1.40 GearCond.code: 1
 FDEPTH: 10 10 Validity code: 3
 BDEPTH: 57 55
 Towing dir: 90 Wire out: 150 m Speed: 28 kn*10
 Sorted: 15 Kg Total catch: 18.45 CATCH/HOUR: 36.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	30.60	426	82.93	72
Engraulis encrasiocolus	5.40	358	14.63	73
Pagellus erythrinus	0.70	2	1.90	
Trachurus trachurus	0.20	2	0.54	
Total	36.90		100.00	

PROJECT STATION: 50
 DATE: 5/ 2/92 GEAR TYPE: PT No: POSITION:Lat N 2420 Long W 1520
 start stop duration Purpose code: 1
 TIME :15:11:00 15:41:00 30 (min) Area code : 1
 LOG :4355.60 4357.30 1.70 GearCond.code: 1
 FDEPTH: 5 5 Validity code: 3
 BDEPTH: 15 17
 Towing dir: 320 Wire out: 75 m Speed: 33 kn*10
 Sorted: 12 Kg Total catch: 12.00 CATCH/HOUR: 24.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	22.00	268	91.67	81
Belone svetovidovi	2.00	8	8.33	
Total	24.00		100.00	

PROJECT STATION: 45
 DATE: 4/ 2/92 GEAR TYPE: PT No:1 POSITION:Lat N 2500 Long W 1519
 start stop duration Purpose code: 1
 TIME :11:09:00 11:27:00 18 (min) Area code : 1
 LOG :4108.80 4109.70 0.90 GearCond.code: 1
 FDEPTH: 15 15 Validity code: 3
 BDEPTH: 38 37
 Towing dir: 270 Wire out: 50 m Speed: 30 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: 51
 DATE: 5/ 2/92 GEAR TYPE: PT No: POSITION:Lat N 2411 Long W 1535
 start stop duration Purpose code: 1
 TIME :19:20:00 19:50:00 30 (min) Area code : 1
 LOG :4391.00 4392.80 1.80 GearCond.code: 1
 FDEPTH: 0 0 Validity code: 3
 BDEPTH: 14 16
 Towing dir: 276 Wire out: 100 m Speed: 34 kn*10
 Sorted: 30 Kg Total catch: 303.50 CATCH/HOUR: 607.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	604.00	10162	99.51	82
Diplodus bellottii	2.00	40	0.33	
Pagellus erythrinus	1.00	20	0.16	
Total	607.00		100.00	

PROJECT STATION: 46
 DATE: 4/ 2/92 GEAR TYPE: BT No:1 POSITION:Lat N 2505 Long W 1451
 start stop duration Purpose code: 1
 TIME :15:30:00 15:50:00 20 (min) Area code : 1
 LOG :4143.50 4144.50 1.00 GearCond.code: 1
 FDEPTH: 49 35 Validity code: 3
 BDEPTH: 49 35
 Towing dir: 165 Wire out: 200 m Speed: 30 kn*10
 Sorted: 62 Kg Total catch: 1407.36 CATCH/HOUR: 4222.08

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Diplodus bellottii	1957.50	31071	46.36	
Sardina pilchardus	810.00	42159	19.18	74
Pagellus acarne	722.25	8496	17.11	
Pomadasys incisus	216.00	2268	5.12	
Trachurus trachurus	202.50	3306	4.80	75
Stromateus fiatola	192.36	75	4.56	
Engraulis encrasiocolus	47.25	3915	1.12	76
Diplodus sargus *	27.00	201	0.64	
Pagellus bellottii	22.11	228	0.52	
Lepidopus caudatus	13.50	66	0.32	
Spondyliopsis cantharus	10.11	138	0.24	
Total	4222.58		99.97	

PROJECT STATION: 52
 DATE: 5/ 2/92 GEAR TYPE: PT No: POSITION:Lat N 2411 Long W 1544
 start stop duration Purpose code: 1
 TIME :22:30:00 23:00:00 30 (min) Area code : 1
 LOG :4408.00 4409.40 1.40 GearCond.code: 1
 FDEPTH: 10 10 Validity code: 3
 BDEPTH: 22 21
 Towing dir: 210 Wire out: 150 m Speed: 25 kn*10
 Sorted: 31 Kg Total catch: 188.28 CATCH/HOUR: 376.56

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	219.60	8658	58.32	83
Sardinella aurita	99.60	6544	26.45	85
Engraulis encrasiocolus	54.00	6210	14.34	84
Trachurus trachurus	2.40	24	0.64	
Belone svetovidovi	0.96	12	0.25	
Total	376.56		100.00	

PROJECT STATION: 47
 DATE: 4/ 2/92 GEAR TYPE: PT No:3 POSITION:Lat N 2450 Long E 1504
 start stop duration Purpose code: 1
 TIME :22:52:00 23:22:00 30 (min) Area code : 1
 LOG :4211.70 4214.10 2.40 GearCond.code: 1
 FDEPTH: 0 0 Validity code: 3
 BDEPTH: 28 30
 Towing dir: 20 Wire out: 100 m Speed: 48 kn*10
 Sorted: 29 Kg Total catch: 263.70 CATCH/HOUR: 527.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	522.00	13036	98.98	77
Scomber japonicus	5.40	6	1.02	
Total	527.40		100.00	

PROJECT STATION: 53
 DATE: 6/ 2/92 GEAR TYPE: PT No: POSITION:Lat N 2405 Long W 1544
 start stop duration Purpose code: 1
 TIME :01:52:00 02:22:00 30 (min) Area code : 1
 LOG :4433.90 4435.60 1.70 GearCond.code: 1
 FDEPTH: 5 5 Validity code: 3
 BDEPTH: 19 19
 Towing dir: 205 Wire out: 100 m Speed: 32 kn*10
 Sorted: 31 Kg Total catch: 436.80 CATCH/HOUR: 873.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	854.00	30536	97.76	86
Decapterus rhonchus	7.00	56	0.80	
Sardinella aurita	7.00	280	0.80	87
Belone svetovidovi	4.20	28	0.48	
Trachurus trachurus	1.40	28	0.16	
Total	873.60		100.00	

PROJECT STATION: 48
 DATE: 5/ 2/92 GEAR TYPE: PT No: POSITION:Lat N 2450 Long W 1456
 start stop duration Purpose code: 1
 TIME :01:07:00 01:37:00 30 (min) Area code : 1
 LOG :4225.60 4227.20 1.60 GearCond.code: 1
 FDEPTH: 10 10 Validity code: 3
 BDEPTH: 25 26
 Towing dir: 270 Wire out: 100 m Speed: 34 kn*10
 Sorted: 30 Kg Total catch: 152.00 CATCH/HOUR: 304.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	290.00	11304	95.39	78
Engraulis encrasiocolus	6.00	620	1.97	79
Trachurus trachurus	5.00	70	1.64	
Diplodus bellottii	2.00	10	0.66	
Belone svetovidovi	1.00	10	0.33	
Total	304.00		99.99	

PROJECT STATION: 54
 DATE: 6/ 2/92 GEAR TYPE: PT No: POSITION:Lat N 2356 Long W 1557
 start stop duration Purpose code: 1
 TIME :06:23:00 06:53:00 30 (min) Area code : 1
 LOG :4471.30 4473.00 1.70 GearCond.code: 1
 FDEPTH: 10 10 Validity code: 3
 BDEPTH: 23 24
 Towing dir: 205 Wire out: 100 m Speed: 25 kn*10
 Sorted: 30 Kg Total catch: 274.50 CATCH/HOUR: 549.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	318.40	18644	94.43	88
Sardinella aurita	30.60	1908	5.57	89
Total	549.00		100.00	

PROJECT STATION: 55
 DATE: 6/ 2/92 GEAR TYPE: BT No:1 POSITION:Lat N 2356 Long W 1624
 start stop duration
 TIME :14:46:00 15:16:00 30 (min) Purpose code: 1
 LOG :4545.70 4547.30 1.60 Area code : 1
 FDEPTH: 55 54 GearCond.code: 1
 BDEPTH: 55 54 Validity code:
 Towing dir: 217 Wire out: 300 m Speed: 32 kn*10
 Sorted: 55 Kg Total catch: 136.95 CATCH/HOUR: 273.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Pagellus bellottii	82.00	520	29.94	
Pagellus acarne	61.00	314	22.27	
Lepidopus caudatus	30.50	220	11.14	90
Dentex gibbosus	26.50	74	9.60	
Pomadasys incisus	21.50	94	7.85	
Loligo vulgaris	18.50	40	6.75	
Zeus faber	11.00	14	4.02	
Scyllorhinus canicula	7.00	10	2.56	
Trachurus trachurus	5.50	70	2.01	91
Dentex macrocanus	5.00	10	1.83	
Allotheutis subulata	2.00	6	0.73	
Diplodus asyrius *	2.00	6	0.73	
Sparus auriga	1.40	2	0.51	
Total	273.90		100.02	

PROJECT STATION: 61
 DATE: 8/ 2/92 GEAR TYPE: PT No:1 POSITION:Lat N 2330 Long W 1630
 start stop duration
 TIME :06:42:00 07:12:00 30 (min) Purpose code: 1
 LOG :4889.10 4891.80 2.70 Area code : 1
 FDEPTH: 8 15 GearCond.code: 1
 BDEPTH: 36 31 Validity code:
 Towing dir: 110 Wire out: 50 m Speed: 50 kn*10
 Sorted: 65 Kg Total catch: 131.20 CATCH/HOUR: 262.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	262.40	5772	100.00	101
Total	262.40		100.00	

PROJECT STATION: 62
 DATE: 8/ 2/92 GEAR TYPE: BT No:1 POSITION:Lat N 2345 Long W 1641
 start stop duration
 TIME :09:22:00 09:52:00 30 (min) Purpose code: 1
 LOG :4909.70 4911.30 1.60 Area code : 1
 FDEPTH: 61 63 GearCond.code: 2
 BDEPTH: 61 63 Validity code: 1
 Towing dir: 215 Wire out: 300 m Speed: 32 kn*10
 Sorted: 29 Kg Total catch: 298.20 CATCH/HOUR: 596.40

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Trachurus trachurus	320.00	5840	53.66	103
Lepidopus caudatus	86.00	803	14.42	104
Dentex macrocanus	60.00	540	10.06	
Sardina pilchardus	39.00	720	6.54	102
Zeus faber	26.00	20	4.36	
Pagellus acarne	16.00	160	2.68	
Dentex gibbosus	12.00	40	2.01	
Dentex canariensis	9.00	20	1.51	
Allotheutis subulata	9.00	2400	1.51	
Loligo vulgaris	9.00	40	1.51	
Dentex macrophthalmus	5.00	80	0.84	
Sarpa salpa	3.40	20	0.57	
Decapterus rhonchus	2.00	20	0.34	
Total	596.40		100.01	

PROJECT STATION: 56
 DATE: 6/ 2/92 GEAR TYPE: PT No:3 POSITION:Lat N 2404 Long W 1601
 start stop duration
 TIME :20:15:00 20:45:00 30 (min) Purpose code: 1
 LOG :4592.20 4594.40 2.20 Area code : 1
 FDEPTH: 10 10 GearCond.code: 1
 BDEPTH: 31 29 Validity code:
 Towing dir: 210 Wire out: 100 m Speed: 40 kn*10
 Sorted: 33 Kg Total catch: 528.00 CATCH/HOUR: 1056.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	1056.00	29142	100.00	92
Total	1056.00		100.00	

PROJECT STATION: 57
 DATE: 7/ 2/92 GEAR TYPE: PT No: POSITION:Lat N 2414 Long W 1544
 start stop duration
 TIME :01:46:00 02:16:00 30 (min) Purpose code: 1
 LOG :4639.30 4641.10 1.80 Area code : 1
 FDEPTH: 10 10 GearCond.code: 1
 BDEPTH: 22 23 Validity code:
 Towing dir: 230 Wire out: 100 m Speed: 34 kn*10
 Sorted: 28 Kg Total catch: 161.00 CATCH/HOUR: 202.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardinella aurita	101.50	6736	50.25	94
Sardina pilchardus	98.00	1906	45.51	93
Spondyliosoma cantharus	1.40	14	0.69	
Belone svetovidovi	0.70	6	0.35	
Trachurus trachurus	0.50	8	0.25	
Total	202.10		100.05	

PROJECT STATION: 63
 DATE: 8/ 2/92 GEAR TYPE: BT No:1 POSITION:Lat N 2346 Long W 1649
 start stop duration
 TIME :11:58:00 12:28:00 30 (min) Purpose code: 1
 LOG :4927.80 4929.10 1.30 Area code : 1
 FDEPTH: 102 102 GearCond.code: 1
 BDEPTH: 102 102 Validity code:
 Towing dir: 220 Wire out: 500 m Speed: 28 kn*10
 Sorted: 66 Kg Total catch: 66.48 CATCH/HOUR: 132.96

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Boops boops	40.00	328	30.08	
Trachurus trachurus	34.60	328	26.02	105
Pagellus acarne	25.80	96	19.40	
Zeus faber	11.60	14	8.72	
Trachurus picturatus	5.30	66	3.99	106
Dentex gibbosus	5.20	8	3.91	
Pagellus bellottii	3.20	14	2.41	
Dentex macrophthalmus	3.00	14	2.26	
Pagellus erythrinus	2.00	2	1.50	
Zenopsis conchifer	1.16	2	0.87	
Anthias anthias	0.60	28	0.45	
MORONIDAE *	0.50	2	0.38	
Total	132.96		99.99	

PROJECT STATION: 58
 DATE: 7/ 2/92 GEAR TYPE: PT No:1 POSITION:Lat N 2435 Long W 1544
 start stop duration
 TIME :17:11:00 17:41:00 30 (min) Purpose code: 1
 LOG :4785.60 4787.70 2.10 Area code : 1
 FDEPTH: 15 18 GearCond.code: 1
 BDEPTH: 31 33 Validity code:
 Towing dir: 3 Wire out: 50 m Speed: 44 kn*10
 Sorted: 32 Kg Total catch: 265.60 CATCH/HOUR: 531.20

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	524.80	12246	98.80	95
Katsuwonus pelamis	6.40	2	1.20	
Total	531.20		100.00	

PROJECT STATION: 64
 DATE: 8/ 2/92 GEAR TYPE: PT No:1 POSITION:Lat N 2327 Long W 1626
 start stop duration
 TIME :17:16:00 17:55:00 39 (min) Purpose code: 1
 LOG :4971.90 4974.40 2.50 Area code : 1
 FDEPTH: 15 15 GearCond.code: 3
 BDEPTH: 29 30 Validity code: 9
 Towing dir: 200 Wire out: 50 m Speed: 38 kn*10
 Sorted: Kg Total catch: CATCH/HOUR:

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

PROJECT STATION: 59
 DATE: 7/ 2/92 GEAR TYPE: PT No:3 POSITION:Lat N 2413 Long W 1600
 start stop duration
 TIME :22:20:00 22:50:00 30 (min) Purpose code: 1
 LOG :4822.10 4824.60 2.50 Area code : 1
 FDEPTH: 10 10 GearCond.code: 1
 BDEPTH: 34 36 Validity code: 3
 Towing dir: 235 Wire out: 100 m Speed: 50 kn*10
 Sorted: 62 Kg Total catch: 682.55 CATCH/HOUR: 1365.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	1355.20	35400	99.27	96
Trachurus trachurus	7.70	132	0.56	97
Dentex macrocanus	2.20	22	0.16	
Total	1365.10		99.99	

PROJECT STATION: 60
 DATE: 8/ 2/92 GEAR TYPE: PT No: POSITION:Lat N 2343 Long W 1602
 start stop duration
 TIME :02:18:00 02:48:00 30 (min) Purpose code: 1
 LOG :4853.10 4855.00 1.90 Area code : 1
 FDEPTH: 10 10 GearCond.code: 1
 BDEPTH: 21 23 Validity code:
 Towing dir: 178 Wire out: 100 m Speed: 37 kn*10
 Sorted: 61 Kg Total catch: 174.55 CATCH/HOUR: 349.10

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.NO.
	weight	numbers		
Sardina pilchardus	120.00	4038	34.37	100
Diplodus bellottii	76.80	1164	22.00	
Pagellus acarne	44.40	582	12.72	
Decapterus punctatus	35.10	390	10.05	98
Pagellus bellottii	25.80	264	7.39	
Sardinella aurita	25.50	2238	7.30	99
Sparus aurata	8.60	2	2.46	
Plectorhynchus sp.	6.60	6	1.89	
Trachurus trachurus	2.70	54	0.77	
Spondyliosoma cantharus	1.50	6	0.43	
Zenopsis encrasiolus	1.20	144	0.34	
Belone svetovidovi	0.90	6	0.26	
Total	349.10		99.98	

PROJECT STATION: 65
 DATE: 8/ 2/92 GEAR TYPE: PT No:3 POSITION:Lat N 2325 Long W 1616
 start stop duration
 TIME :20:16:00 20:46:00 30 (min) Purpose code: 1
 LOG :4993.50 4995.80 2.30 Area code : 1
 FDEPTH: 5 5 GearCond.code:
 BDEPTH: 23 23 Validity code:
 Towing dir: 208 Wire out: 100 m Speed: 46 kn*10
 Sorted: 32 Kg Total catch: 19000.00 CATCH/HOUR: 20000.00

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.No.
	weight	numbers		
Sardina pilchardus	20000.00	552380	100.00	107
Total	20000.00		100.00	

PROJECT STATION: 70
 DATE: 9/ 2/92 GEAR TYPE: Pt No: POSITION:Lat N 2242 Long W 1634
 start stop duration
 TIME :23:31:00 00:01:00 30 (min) Purpose code: 1
 LOG :5219.20 5221.00 1.00 Area code : 1
 FDEPTH: 10 10 GearCond.code:
 BDEPTH: 32 34 Validity code:
 Towing dir: 205 Wire out: 100 m Speed: 35 kn*10
 Sorted: 31 Kg Total catch: 1288.30 CATCH/HOUR: 2576.60

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.No.
	weight	numbers		
Sardina pilchardus	2520.00	65740	97.80	117
Loligo vulgaris	46.20	164	1.79	
Decapterus khonchus	8.40	84	0.33	
Muraena helena	2.00	2	0.08	
Total	2576.60		100.00	

PROJECT STATION: 66
 DATE: 8/ 2/92 GEAR TYPE: PT No: POSITION:Lat N 2321 Long W 1608
 start stop duration
 TIME :23:11:00 23:41:00 30 (min) Purpose code: 1
 LOG :5010.60 5012.30 1.70 Area code : 1
 FDEPTH: 10 10 GearCond.code:
 BDEPTH: 19 19 Validity code: 1
 Towing dir: 200 Wire out: 100 m Speed: 34 kn*10
 Sorted: 68 Kg Total catch: 475.23 CATCH/HOUR: 950.46

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.No.
	weight	numbers		
Sardina pilchardus	621.60	15582	65.40	108
Diplodus bellottii	228.90	3032	24.08	109
Diplodus sargus	27.30	14	2.87	
Pagellus bellottii	26.60	266	2.80	
Pomadasys incisus	17.50	154	1.84	
Loligo vulgaris	9.80	14	1.03	
Decapterus khonchus	5.60	84	0.59	
Pagellus acarne	4.20	14	0.44	
Engraulis encrasicolus	3.08	1022	0.32	
Boops boops	2.38	28	0.25	
Belone svetovidovi	2.10	28	0.22	
Spondylionema cantharus	1.40	14	0.15	
Total	950.46		99.99	

PROJECT STATION: 67
 DATE: 9/ 2/92 GEAR TYPE: PT No: POSITION:Lat N 2330 Long W 1612
 start stop duration
 TIME :02:27:00 02:57:00 30 (min) Purpose code: 1
 LOG :5095.70 5037.20 1.50 Area code : 1
 FDEPTH: 10 10 GearCond.code:
 BDEPTH: 23 23 Validity code:
 Towing dir: 280 Wire out: 100 m speed: 31 kn*10
 Sorted: 28 Kg Total catch: 168.90 CATCH/HOUR: 337.80

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.No.
	weight	numbers		
Sardine pilchardus	336.00	8500	99.47	110
Belone svetovidovi	1.80	24	0.53	
Total	337.80		100.00	

PROJECT STATION: 68
 DATE: 9/ 2/92 GEAR TYPE: PT No:1 POSITION:Lat N 2331 Long W 1633
 start stop duration
 TIME :06:05:00 06:25:00 20 (min) Purpose code: 1
 LOG :5058.90 5060.40 1.50 Area code : 1
 FDEPTH: 10 10 GearCond.code:
 BDEPTH: 32 35 Validity code:
 Towing dir: 205 Wire out: m Speed: 35 kn*10
 Sorted: 31 Kg Total catch: 279.90 CATCH/HOUR: 839.70

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.No.
	weight	numbers		
Sardine pilchardus	677.70	15090	80.71	111
Sardinella aurita	162.00	8460	19.29	112
Total	839.70		100.00	

PROJECT STATION: 69
 DATE: 9/ 2/92 GEAR TYPE: BT No:1 POSITION:Lat N 2302 Long W 1637
 start stop duration
 TIME :15:15:00 15:45:00 30 (min) Purpose code: 1
 LOG :5144.50 5145.90 1.40 Area code : 1
 FDEPTH: 36 36 GearCond.code:
 BDEPTH: 36 36 Validity code:
 Towing dir: 212 Wire out: 250 m Speed: 31 kn*10
 Sorted: 66 Kg Total catch: 886.95 CATCH/HOUR: 1773.90

SPECIES	CATCH/HOUR		% OF TOT. C	SAMP.No.
	weight	numbers		
Sardine pilchardus	1188.00	29700	66.97	113
Engraulis encrasicolus	459.20	75990	25.89	114
Trachurus trachurus	32.40	890	1.83	116
Diplodus bellottii	27.00	350	1.52	
Plectorhynchus mediterraneus	16.32	28	0.92	
Pagellus bellottii	13.50	108	0.76	
Sardinella aurita	13.50	918	0.76	115
Loligo vulgaris	10.80	242	0.61	
Boops boops	5.40	270	0.30	
Lepidopus caudatus	4.04	28	0.23	
Octopus vulgaris	2.60	2	0.15	
Pagellus acarne	1.34	26	0.08	
Total	1774.10		100.02	

ANNEX IV INSTRUMENTS AND FISHING GEAR USED

ACOUSTIC INSTRUMENTS

A SIMRAD scientific echo sounder, EK 500/38kHz, was used during the survey for estimation of fish density.

Based on a calibration experiment using a standard copper sphere in Harbour of Las Palmas on 1st February 1992, the following settings were used:

Absorption Coeff.	10 dB/km
Pulse length	Medium
Bandwidth	Wide
Max. Power	2000 W
Angle sensitivity	21.9
2-way Beam Angle	-21.0 dB
Sv Transd. Gain	27.9 dB
Ts Transd. Gain	28.0 dB
3 dB Beamwidth	6.9°
Along-ship Offset	0°
Athwart-ship	0°

HYDROGRAPHY

Temperature and salinity and oxygen were sampled at standard depths with a mini CTD sonde model SD202. Surface temperature was registered by a Furuno Temperature Indicator model TI-20, and logged on PC every nautical mile sailed.

FISHING GEAR

Bottom trawl: High opening shrimp and fish trawl with net headline 31 m (floatline), foot-rope 47m, gear with 12 cm diameter roller disks, 40 m sweeps, estimated headline height 6m and distance between wings during towing 18-20m. This gear was also used for some of the mid-water trawls.

Pelagic trawl: Swedish type mid-water trawl with a vertical opening of 20-25m.

Cod ends of trawls with fine meshed inner lining.

DATA PROCESSING

The biological and acoustic data were stored into and analysed by the Nansen Survey Information System, NAN-SIS.

