TECHNICAL ANNEX

Pre-treatment of data

- Data on total landings by species or species groups, were extracted from the FISHSTAT-PC data set (FAO 1996) by using as filters, No 37 for the fishing area (this assured that national catches were included for the Mediterranean only), and including all species and all the countries mentioned above.

- The ASCII file thus obtained was read and elaborated by a series of Pascal programs written ad hoc to perform the subsequent analyses.

- In the programme FISHSTAT-PC, the Turkish catches include landings from both the Black Sea and for the Mediterranean and Aegean. This deficiency also cannot be easily corrected for the data series in question, but the following approximate separation was applied:

- Turkish reports to GFCM include landings from Black Sea+Marmara+Aegean+ Mediterranean prior to 1972, while the GFCM-PC data set separates them by each of these sub-areas from 1972 onwards. In order to have a rough estimate of Turkish landings for Marmara+Aegean+Mediterranean (considered to be the Mediterranean proper) prior to 1972, an approximate solution was sought which recognizes that the information for the first few years in FISHSTAT-PC is inevitably of lower reliability than later data.

- The solution chosen was to determine Turkish landings in the Mediterranean proper after 1971 using the GFCM-PC data set. For the earlier period, the ratio of landings in the Black Sea and in the Mediterranean proper was calculated for each recorded species in the first decade, when data was presented separately by sub-area, i.e. 1972-81. This ratio by species was used to estimate for the years 1950-71 the approximate percentage of each species landed in the two major areas and to use this percentage to estimate the early landings by Turkey in the Mediterranean proper. Obviously, this is not a very robust procedure but, as long as attention is not directed to the earlier part of the time series, appears to be the only one possible, given the information available.

- For Italy and Tunisia, it is clear that a significant proportion of national catches come from what is considered here to be the Eastern Mediterranean, namely, to the East of the Straits between Sicily and Tunisia which marks the boundary between Divisions 1.3 Sardinia and 2.2 Ionian. Also in this case, GFCM statistical data was used to separate Italian and Tunisian catches between Eastern Mediterranean (Adriatic and Ionian) and Western Mediterranean (Sardinia). The criteria used were the same that have been used to separate Turkish data.

- In the GFCM statistical data tuna fish are considered separately and not separated by subareas as for the other species. For this reason, it was impossible to use GFCM data set to separate the Italian and Tunisian FISHSTAT data of tuna fish between West and East. It was decided to simply split into 2 equal part the catch of these species between West and East.

The numerical filters used in this study

The following analysis were then performed on the data:

1) Positive records were counted. If their number was less or equal to 10, the median year of those years with positive values for landings was computed. If the median year was prior to 1960, the species was inserted in the category 11 "Collapsed fisheries", which obviously signifies that there were data on landings earlier in the series, but not later. If the median year was after 1984, the species was inserted in the category 1 "New fisheries", implying that, at the least, no records of landings were registered in the early years of the time series.

2) Otherwise, if the median year fell within the interval 1960-1994, the species was inserted in the category 12 "Intermittent fisheries", implying that for less than or equal to 10 years spread somewhere throughout the time series were landings registered.

3) If the number of positive records exceeded 10, the initial zeros were eliminated. Similarly the final zeros were eliminated. Series of zeros included in the series (bracketed by two positive values) were kept. Thus the analysis is restricted to the time interval including and between the first and last years when landings were non-zero.

4) A parabolic equation ($Y=a+bX+cX^2$, where Y are the landings and X the years) was then fitted to the remaining values. If this equation was not highly significant ($P > 0.01$), the species was categorized initially as "Stable or intermittent fishery". Only if the mean landings were greater than ***3*** times the standard deviation for the series was the species entered in the category 'Stable'. Otherwise the species was added to those already in the category 12: "Intermittent fisheries".

5) If the fitted equation tested as highly significant, the partial F-tests on the two coefficients b and c were taken into account. In fact one of the two independent variables (X and X^2) could be redundant. In practice, the method used was the "Backward Elimination Procedure" described by Draper and Smith (1966). Two situations could then occur:

(a) both coefficients test as highly significant;

In this case, if all the coefficients of the equation ($Y=a+bX+cX^2$) resulted significant, the position of the vertex of the parabola was checked:

a1) If the X coordinate of the vertex fell before 1950, this, in practice, is the same situation as b2). In this case, the coefficient c was checked: if it was positive, the species was added to category 2 "Rising, concave upwards"; if it resulted negative, the species was inserted in category 7 "Declining, concave downwards".

a2) the X coordinate of the vertex falls after 1994: if the c coefficient is positive, the species will be categorized as belonging to category 9: "Declining, concave upwards"; if c was negative, the species was inserted in category 4: "Rising, concave downwards".

a3) the X coordinate of the vertex falls in the interval 1950-1994. If the c coefficient is positive, the species will be placed in category 10 as "Recovering fisheries"; if c is negative, the species is inserted in category 5: "Dome shaped".

(b) one of the two coefficients was not highly significant.

In this case, the coefficient that was less significant was discarded and the curve recalculated with a reduced equation:

b1) if the coefficient eliminated was c, a line ($Y=a'+b'X$) was considered as the best-fitting equation. The coefficient b' was then checked: if it was positive, the species was put in category 3: "Rising linear"; if b' resulted negative, the species was inserted in the category 8 "Declining linear".

b2) if the coefficient eliminated was b, a parabola ($Y=a''+b''X^2$) with the vertex on the Y axis remained. The coefficient b" was then checked: if it was positive, the species was placed in category 2: "Rising, concave upwards". If b" resulted negative, the species was inserted in category 7: "Declining, concave downwards".

Recent short-term trends

The categories 2 -10 were further analysed on the basis of the trend in the last 5 years (1990-1994). A linear regression was fitted to the landings of these years. If the regression resulted highly significant *($P < 0.01$)*, the slope coefficient was checked: if it was positive, the species was categorized as "Recently rising"; if the coefficient resulted negative, the species was categorized as "Recently declining".

DATA ANNEX

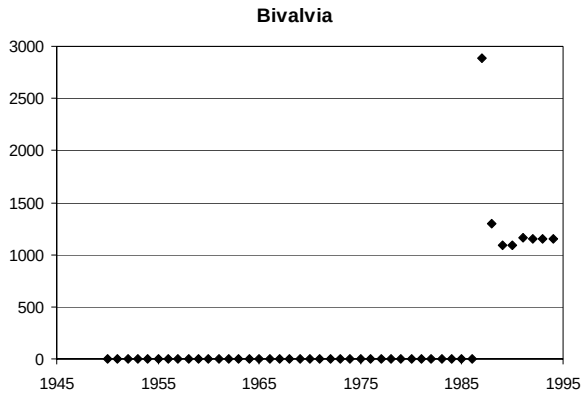
A more detailed categorization of landing trends is presented here, first for the West Mediterranean and after for the East Mediterranean.

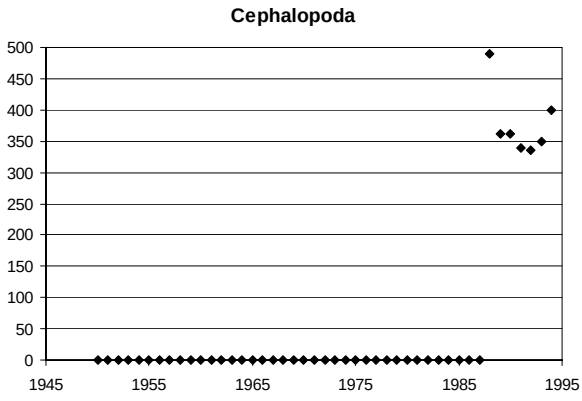
In both cases, the species (Latin and standard FAO common name, number of records and country recording catches, are given for the species in the category assigned according to figure 3. These tables are followed by plots of landing trends for the key species in the category. In these plots, a curve may have been fitted to the long-term time series, and a linear plot of the short-term trends over the last five years of the series may also be shown.

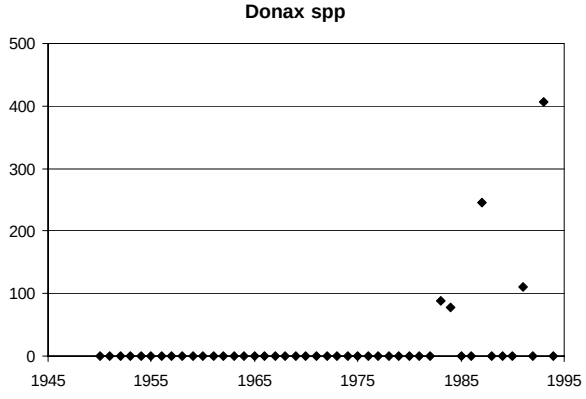
A/ West Mediterranean. Tables and figures

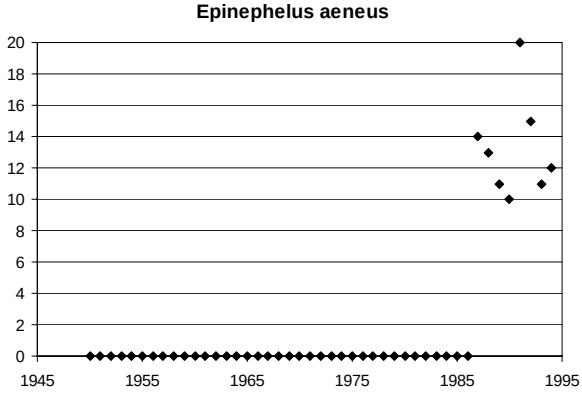
West Mediterranean - Table 1 = New fisheries

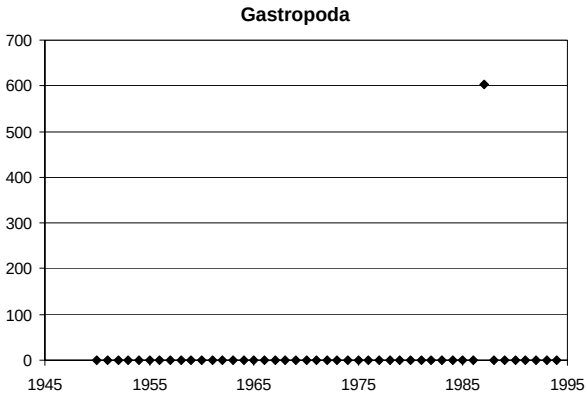
Scientific name	English name	N. Positive Recs.	Country	Catch
Bivalvia	Clams nei	8	Spain	100.0%
Cephalopoda	Cephalopods nei	7	Spain	100.0%
Donax spp	Donax clams	5	France	100.0%
Epinephelus aeneus	White grouper	8	Morocco	100.0%
Gastropoda	Gastropods nei	1	Spain	100.0%
Lepidopus caudatus	Silver scabbardfish	5	Tunisia	100.0%
Mullus barbatus	Striped mullet	9	Tunisia	100.0%
Mullus surmuletus	Red mullet	9	Tunisia	100.0%
Reptantia	Marine crabs nei	5	Spain Morocco	95.9% 4.1%
Scyliorhinus spp	Catsharks, nursehound	5	Tunisia	100.0%
Seriola dumerili	Greater amberjack	6	Tunisia	100.0%
Seriola spp	Amberjacks nei	6	Tunisia	100.0%
Sparus(=Pagrus)spp	Pargo breams, nei	10	Morocco	100.0%
Spicara maena	Blotched picarel	6	Tunisia	100.0%
Squalidae	Dogfish sharks nei	5	Tunisia	100.0%
Squatina squatina	Angelshark	4	Tunisia	100.0%







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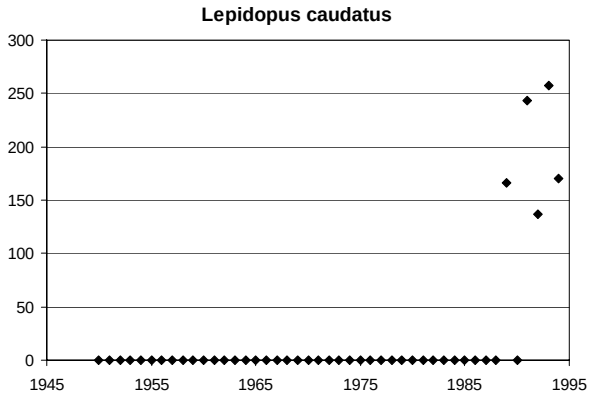
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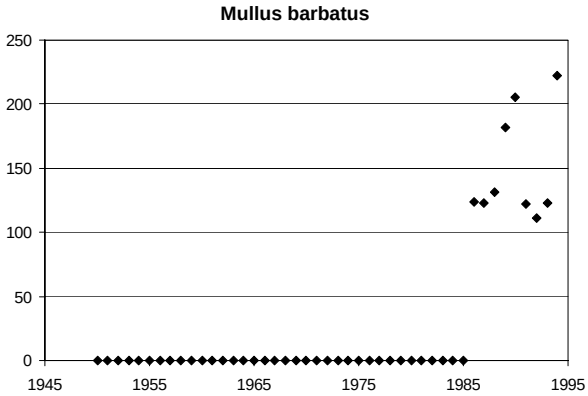
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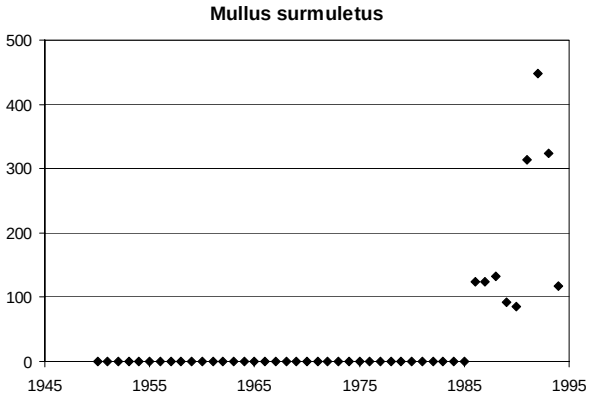
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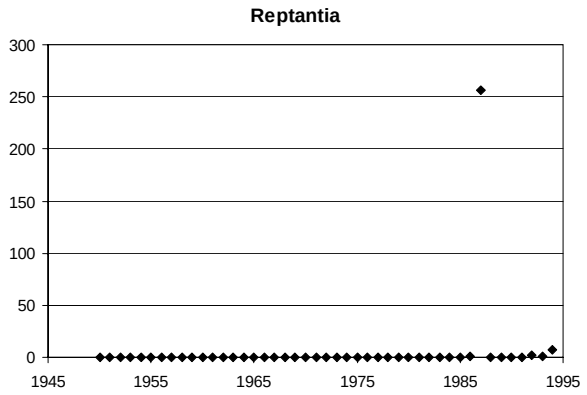
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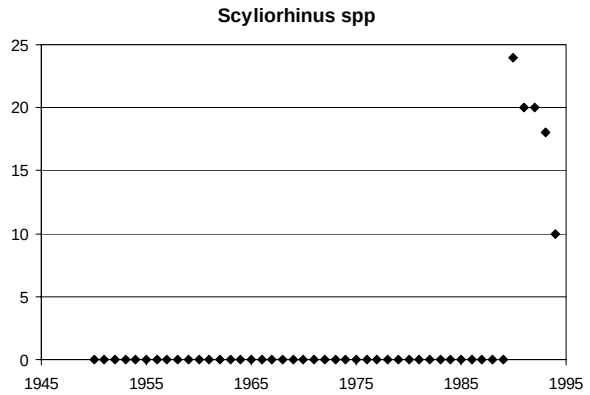
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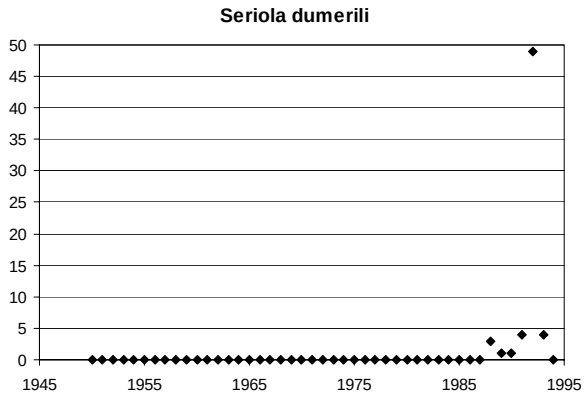
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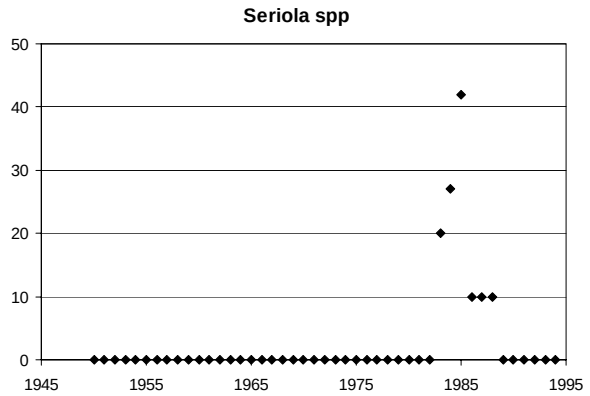
Seriola spp
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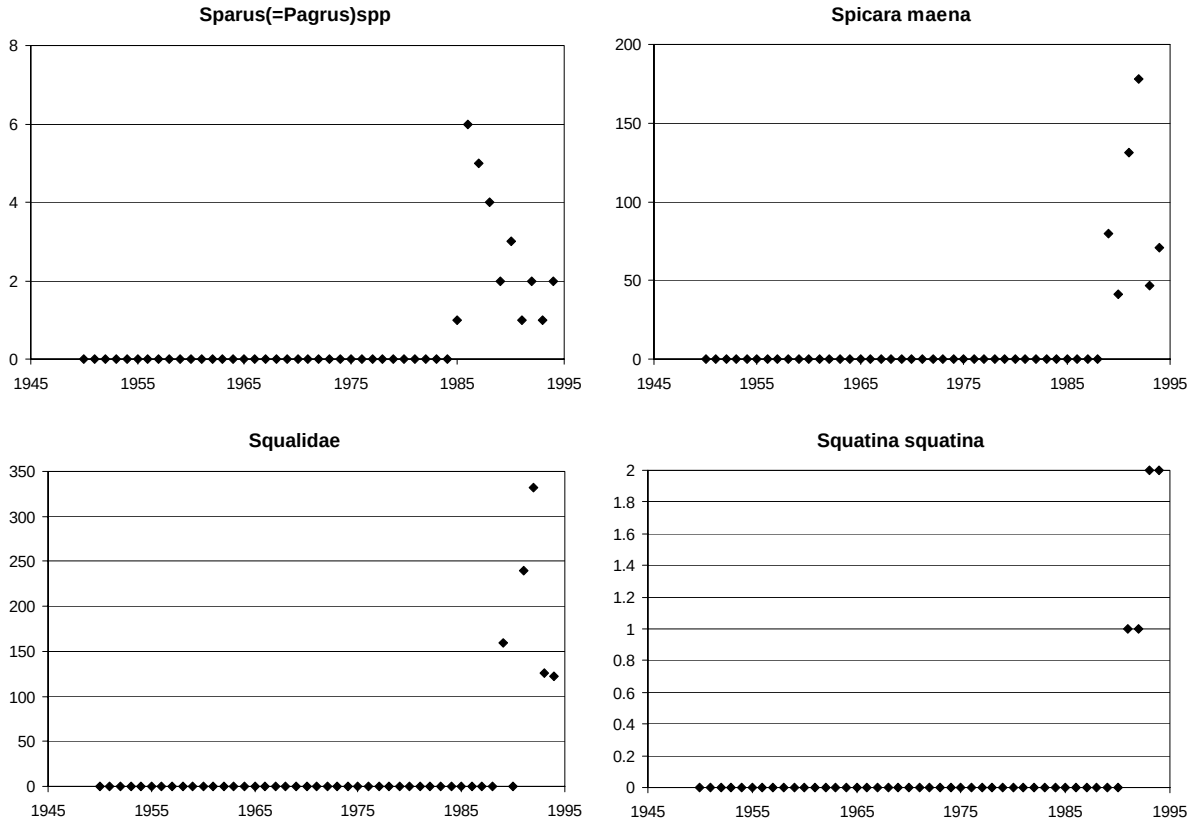
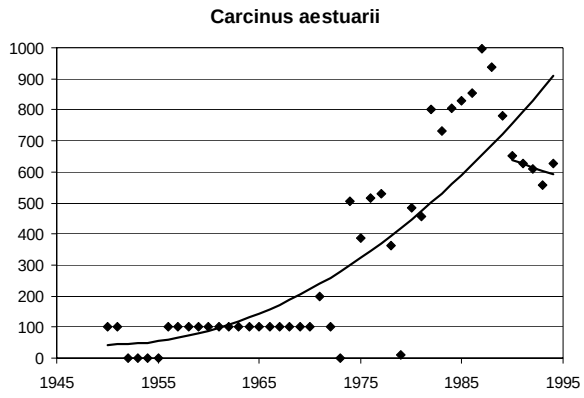
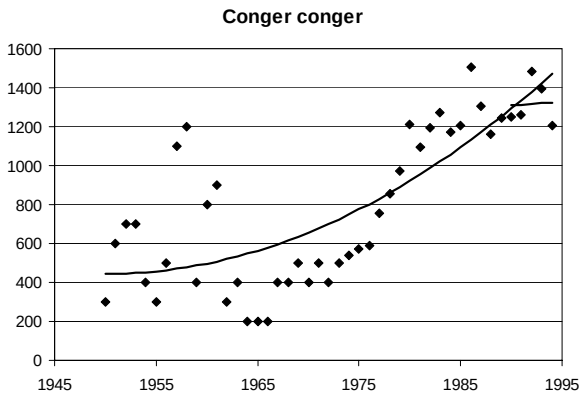


West Mediterranean - Table 2 = Rising: concave upward

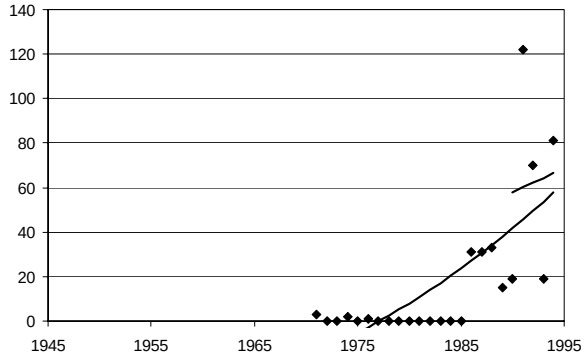
Scientific name	English name	N. Positive Recs.	Country	Catch
RECENTLY RISING				
Dicentrarchus spp	Seabasses	35	Italy Tunisia Spain	95.6% 3.4% 1.0%
NO RECENT TREND				
Carcinus aestuarii	Mediterranean shore crab	40	Spain France	87.1% 12.9%
Conger conger	European conger	45	France Spain Morocco Tunisia	50.8% 49.1% 0.1% 0.0%
Coryphaena hippurus	Common dolphinfish	12	Tunisia	100.0%
Dentex dentex	Common dentex	44	Italy Spain Tunisia France	81.3% 14.2% 4.4% 0.2%
Epinephelus spp	Groupers nei	44	Tunisia	100.0%
Gadiformes	Gadiformes nei	31	Spain France	78.4% 21.6%
Lepidorhombus whiffiagonis	Megrim	37	Spain France	78.0% 22.0%
Lithognathus mormyrus	Sand steenbras	13	France	100.0%
Littorina littorea	Periwinkle	14	Spain	100.0%
Mollusca	Marine molluscs nei	44	Italy Spain	48.0% 44.5%

			Tunisia	5.7%
			Morocco	1.4%
			France	0.5%
Mytilus galloprovincialis	Mediterranean mussel	45	Italy	47.2%
			France	46.9%
			Spain	5.3%
			Morocco	0.3%
			Tunisia	0.3%
			Algeria	0.0%
Oblada melanura	Saddled seabream	14	Tunisia	69.5%
			France	30.5%
Pagrus pagrus	Red porgy	30	Spain	64.1%
			Tunisia	35.9%
Sardina pilchardus	European pilchard(=Sardine)	45	Spain	37.7%
			Algeria	28.2%
			France	12.4%
			Morocco	10.8%
			Italy	10.1%
			Tunisia	0.9%
Sarpa salpa	Salema	32	Tunisia	73.5%
			France	26.5%
Sciaena spp	Drums	31	Italy	96.2%
			Tunisia	3.8%
Scomber japonicus	Chub mackerel	42	Morocco	59.2%
			Tunisia	40.8%
Scombroidei	Tuna-like fishes nei	30	Tunisia	92.4%
			Spain	7.6%
			Italy	0.1%
Sprattus sprattus	European sprat	20	Spain	99.9%
			France	0.1%
Todarodes sagittatus sagittat.	European flying squid	33	Italy	92.2%
			Algeria	6.5%
			France	1.1%
			Spain	0.2%
Xiphias gladius	Swordfish	45	Italy	61.1%
			Spain	25.2%
			Algeria	10.3%
			Morocco	3.0%
			Tunisia	0.5%
Zeus faber	John dory	19	France	64.9%
			Tunisia	22.7%
			Morocco	12.5%

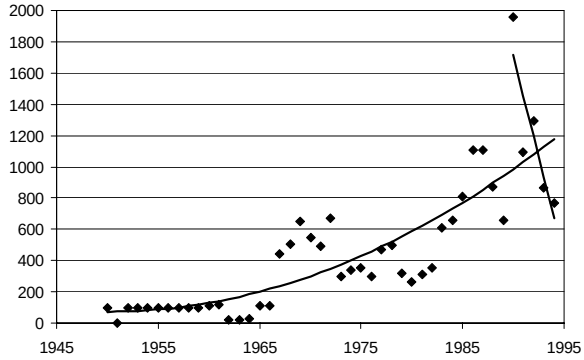




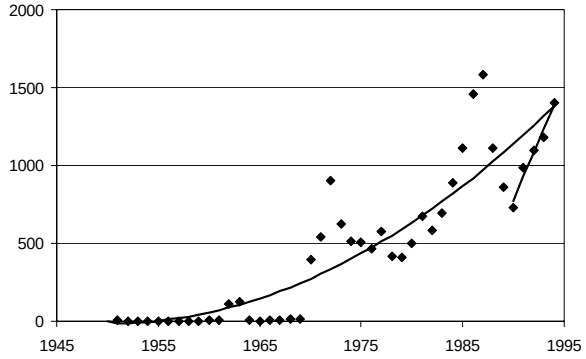
Coryphaena hippurus



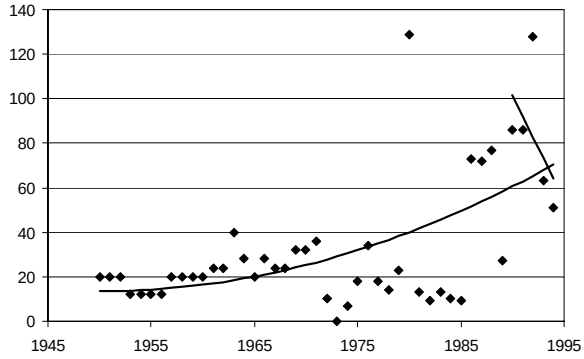
Dentex dentex



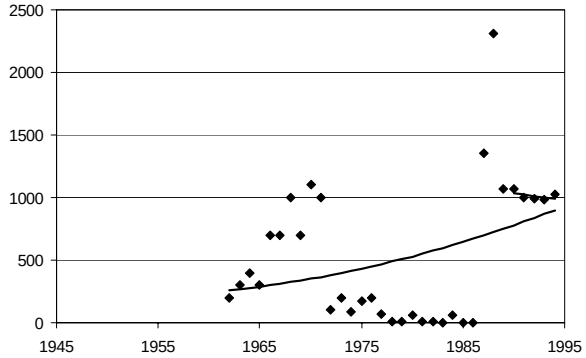
Dicentrarchus spp



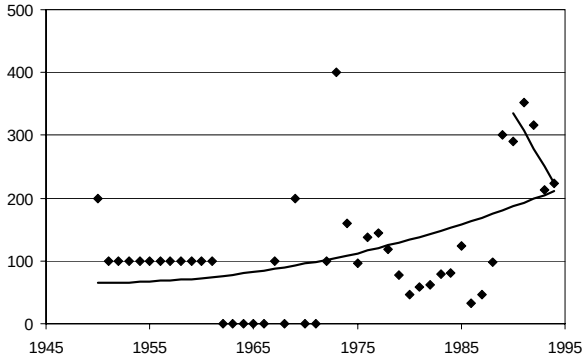
Epinephelus spp



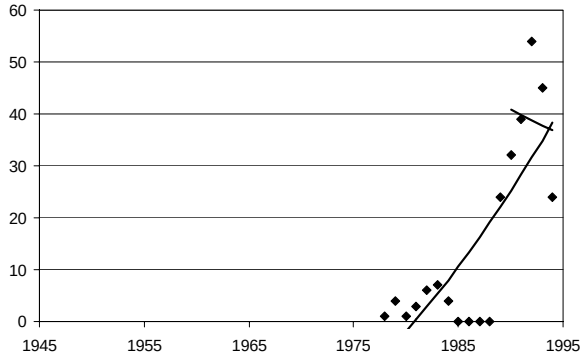
Gadiformes



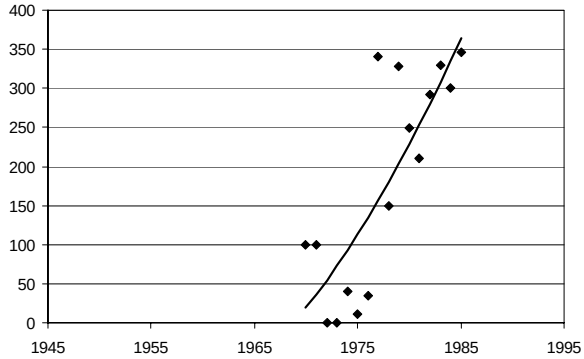
Lepidorhombus whiffiagonis



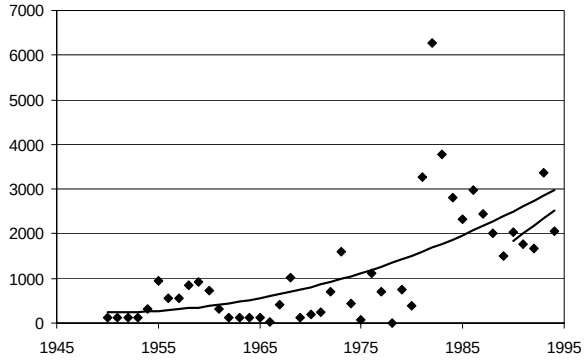
Lithognathus mormyrus



Littorina littorea



Mollusca



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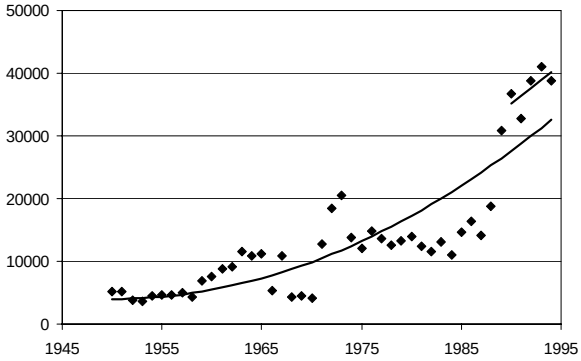
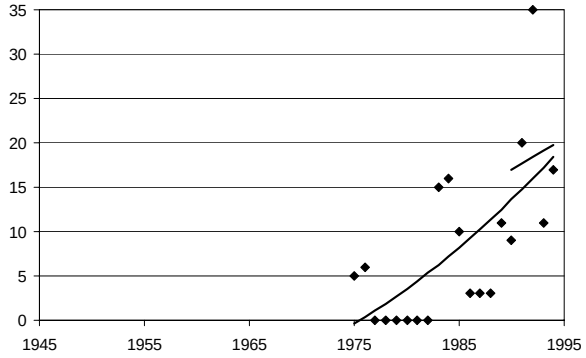
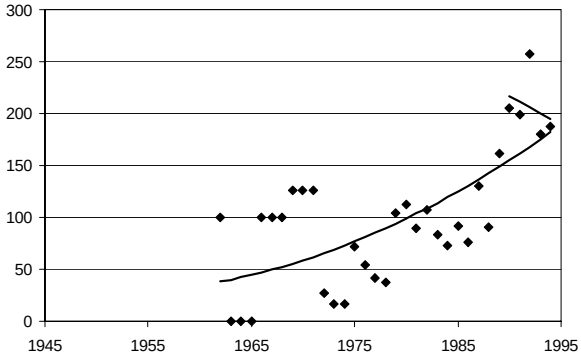


Oblada melanura



Pagrus pagrus



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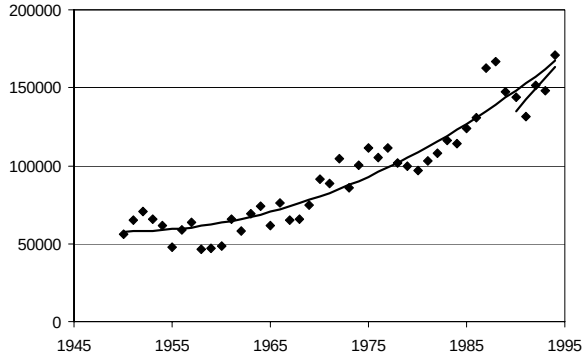

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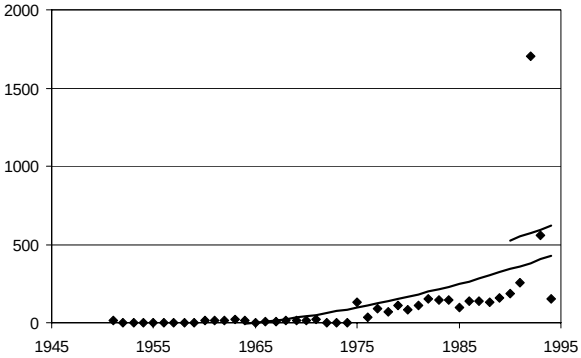
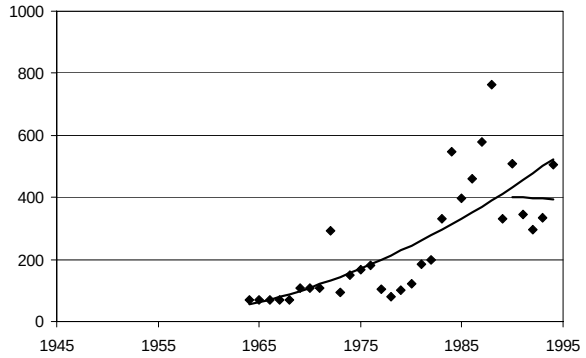


Sciaena spp



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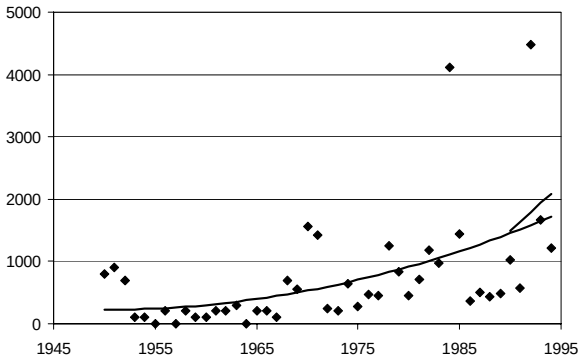
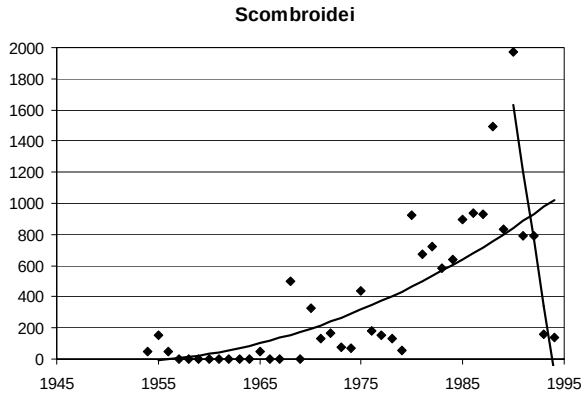
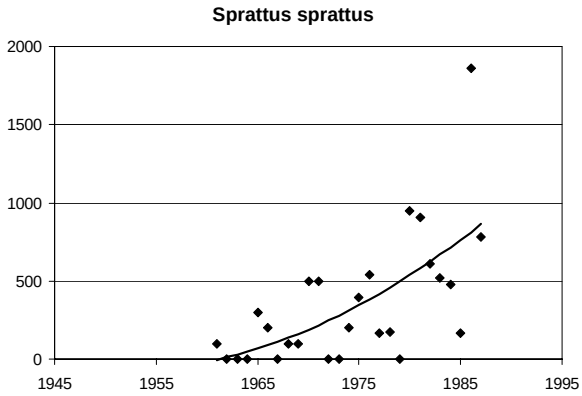
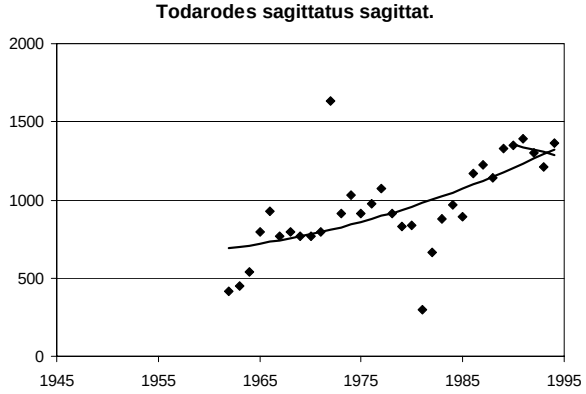
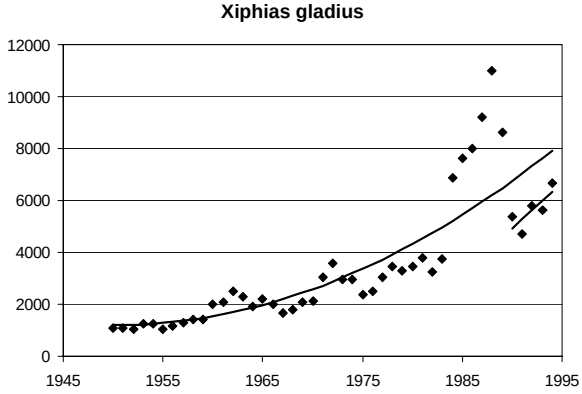
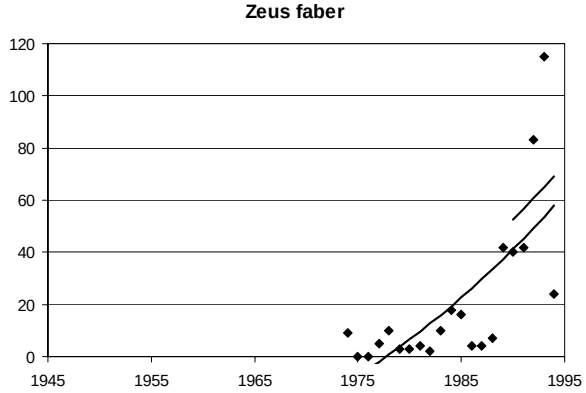










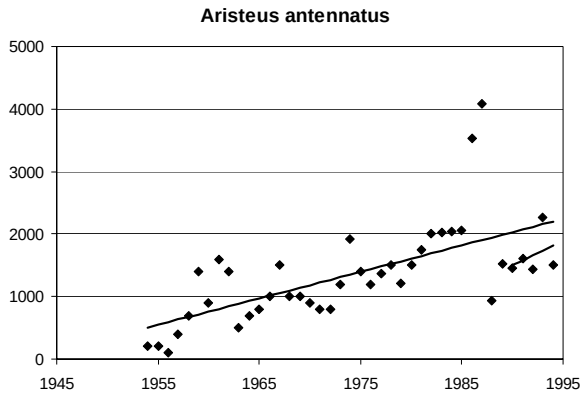


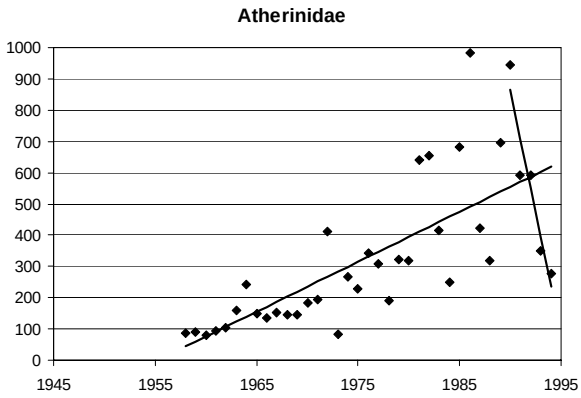
West Mediterranean - Table 3 = Rising: linear

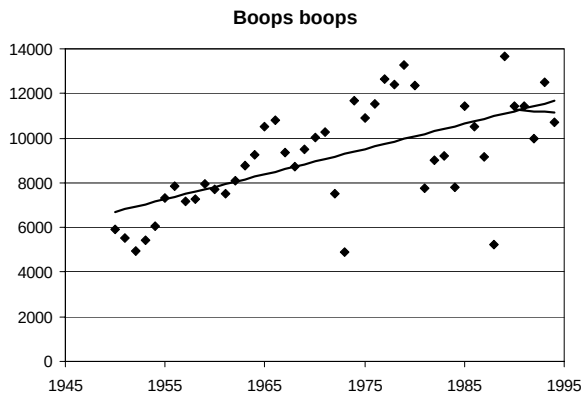
Scientific name	English name	N. Positive Recs.	Country	Catch
RECENTLY RISING				
Sparus aurata	Gilthead seabream	43	Italy France Spain Tunisia Morocco	40.1% 33.0% 19.2% 5.4% 2.3%
NO RECENT TREND				
Aristeus antennatus	Blue and red shrimp	41	Algeria Tunisia	99.2% 0.8%
Atherinidae	Silversides(=Sand smelts)	37	Italy France Tunisia	53.4% 46.5% 0.2%

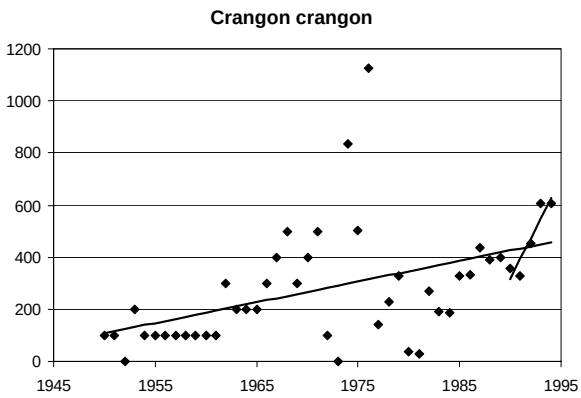
Boops boops	Bogue	45	Spain	45.7%
			Italy	32.9%
			Morocco	8.5%
			Algeria	8.5%
			France	2.9%
			Tunisia	1.6%
Crangon crangon	Common shrimp	43	Spain	94.2%
			France	5.8%
Crustacea	Marine crustaceans nei	45	Italy	45.2%
			Spain	45.1%
			France	5.3%
			Algeria	3.8%
			Morocco	0.8%
			Tunisia	0.0%
Diplodus spp	Sargo breams, nei	45	Italy	74.8%
			Tunisia	15.1%
			France	9.7%
			Morocco	0.4%
Engraulis encrasicolus	European anchovy	45	Spain	47.3%
			Italy	31.1%
			Algeria	8.8%
			Morocco	7.3%
			France	5.5%
			Tunisia	0.0%
Epinephelus guaza(=marginatus)	Dusky grouper	42	Italy	69.3%
			Spain	30.7%
Gobiidae	Gobies nei	45	Italy	100.0%
Lichia amia	Leerfish	28	Italy	97.3%
			Tunisia	2.7%
			Spain	0.0%
Lophiidae	Anglerfishes nei	36	Italy	78.4%
			France	21.7%
Lophius piscatorius	Angler(=Monk)	45	Spain	97.3%
			Morocco	2.7%
Merluccius merluccius	European hake	45	Spain	41.7%
			Italy	34.2%
			France	10.5%
			Algeria	10.3%
			Tunisia	2.3%
			Morocco	1.0%
Micromesistius poutassou	Blue whiting(=Poutassou)	45	Spain	84.1%
			Italy	14.3%
			France	1.7%
Natantia	Natantian decapods nei	45	Italy	97.9%
			Morocco	2.1%
			France	0.0%
Octopodidae	Octopuses	45	Spain	98.5%
			Morocco	1.5%
Plesiopenaeus edwardsianus	Scarlet shrimp	27	Spain	100.0%
Sarda sarda	Atlantic bonito	45	Italy	32.2%
			Spain	30.1%
			Algeria	19.8%
			Tunisia	11.0%
			Morocco	6.8%
			France	0.1%
Scomber scombrus	Atlantic mackerel	45	Spain	59.3%
			France	28.7%
			Algeria	12.0%
Scorpaenidae	Scorpionfishes, nei	45	Italy	69.4%
			Spain	18.2%
			France	9.4%
			Tunisia	2.8%
			Morocco	0.2%
Solea vulgaris	Common sole	45	Italy	40.0%
			Spain	28.0%
			France	17.0%
			Algeria	13.5%
			Morocco	0.9%

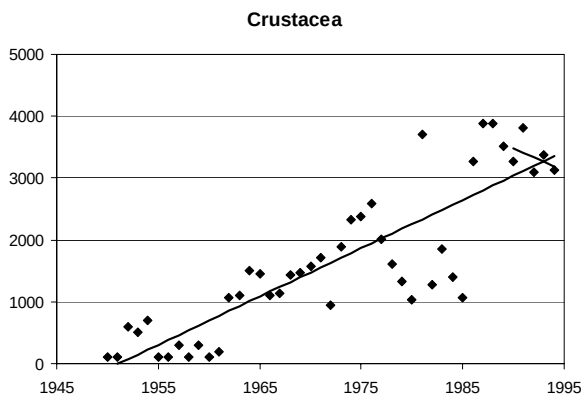
			Tunisia	0.7%
Sparidae	Porgies, seabreams, nei	44	Morocco	54.7%
			Italy	36.4%
			Spain	4.5%
			Tunisia	4.4%
Thunnus alalunga	Albacore	29	Italy	67.9%
			Spain	28.2%
			France	3.9%
Venus(=Chamelea) gallina	Striped venus	45	Italy	65.3%
			Spain	34.8%

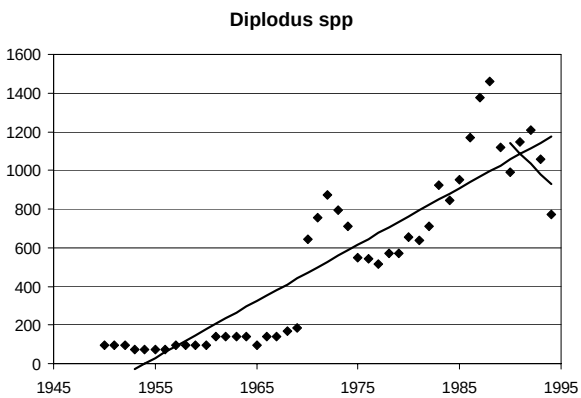




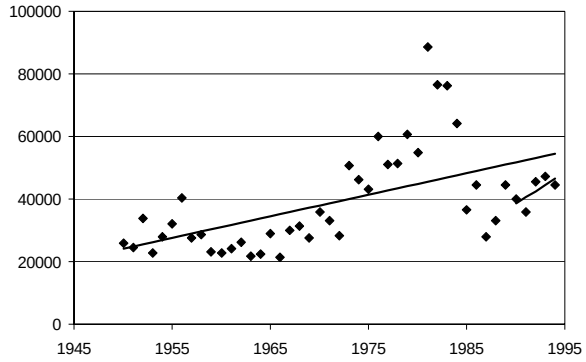




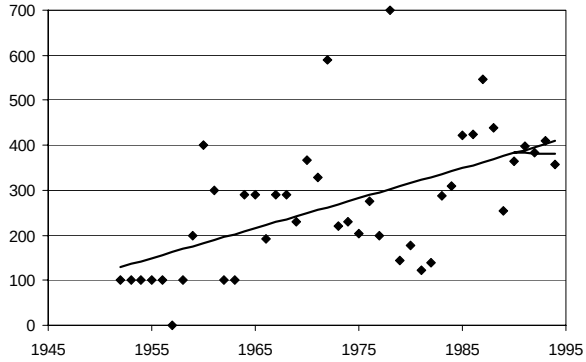




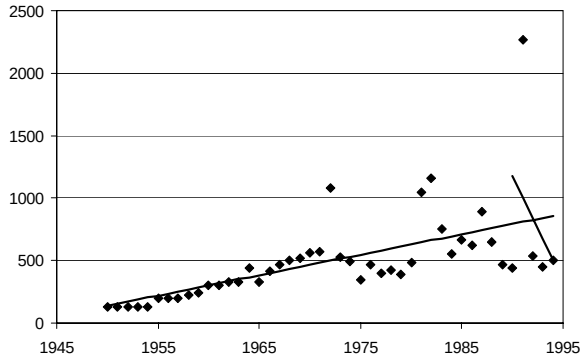
Engraulis encrasicolus



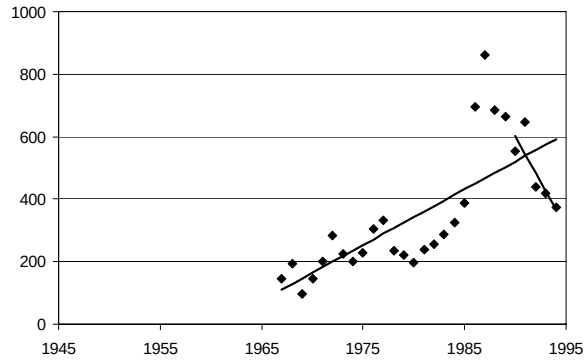
Epinephelus guaza(=marginatus)



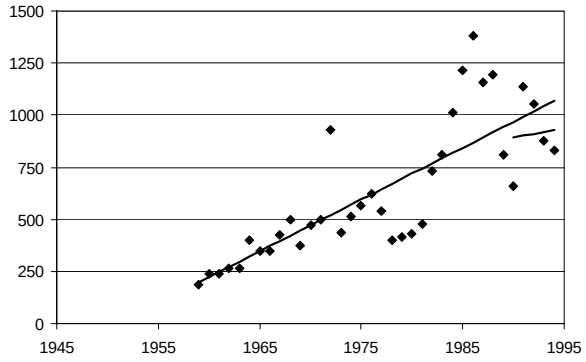
Gobiidae



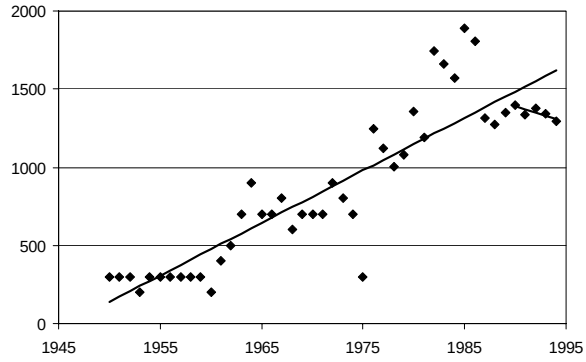
Lichia amia



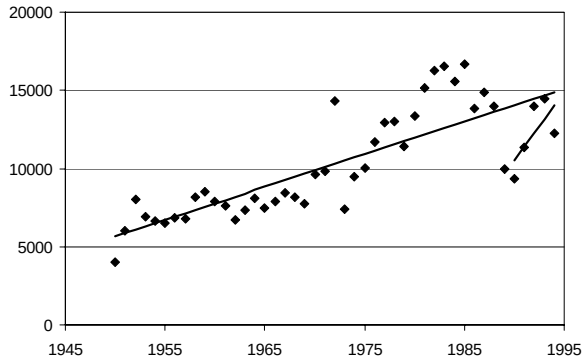
Lophiidae



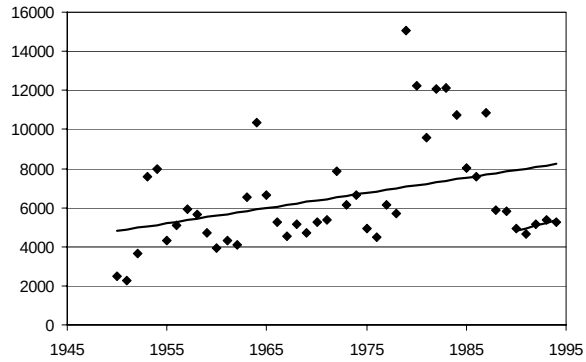
Lophius piscatorius

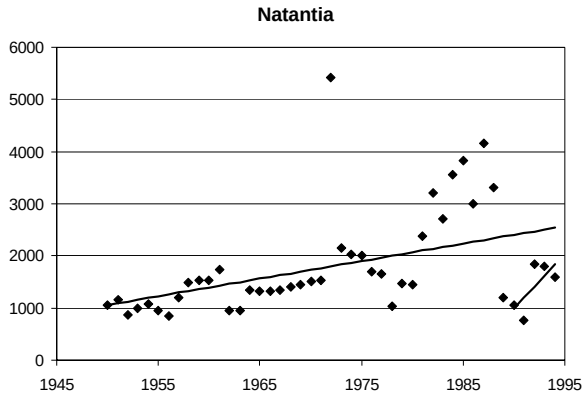


Merluccius merluccius



Micromesistius poutassou

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2000
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1975
1985
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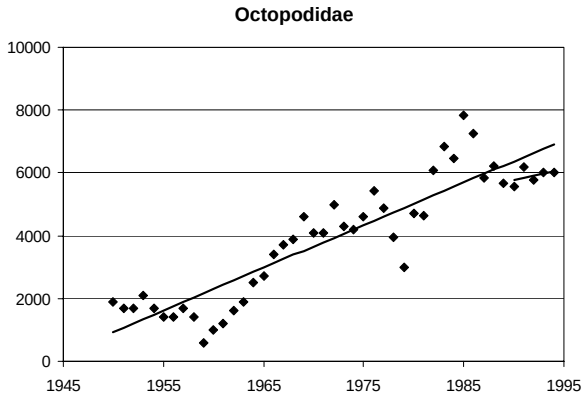
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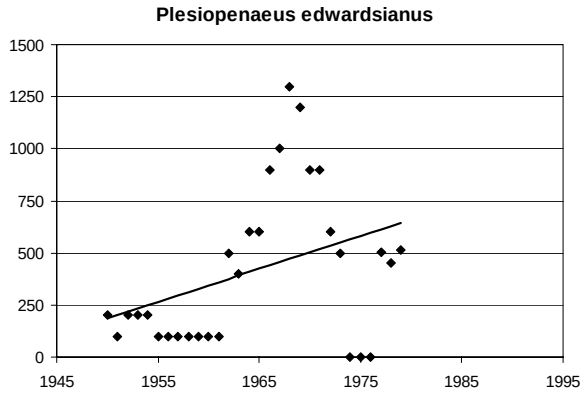
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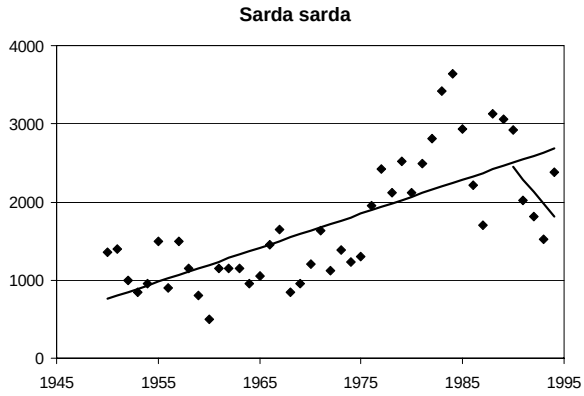
Sarda sarda
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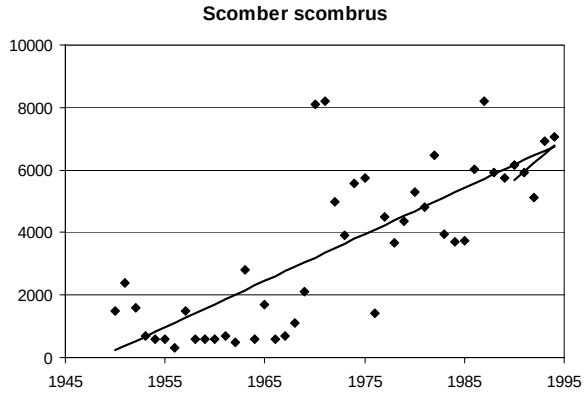
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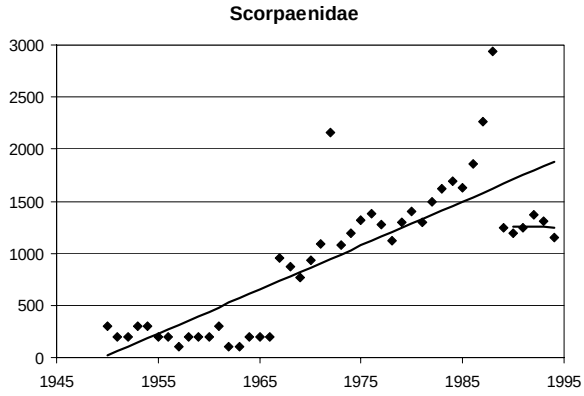
Scorpaenidae
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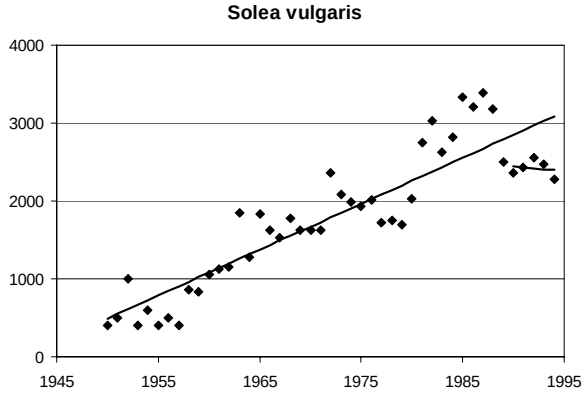
Solea vulgaris
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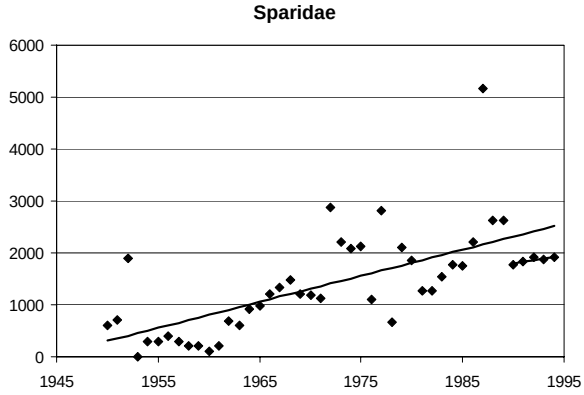
Sparidae
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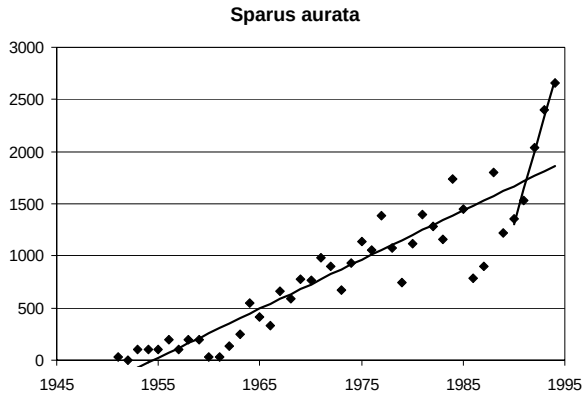
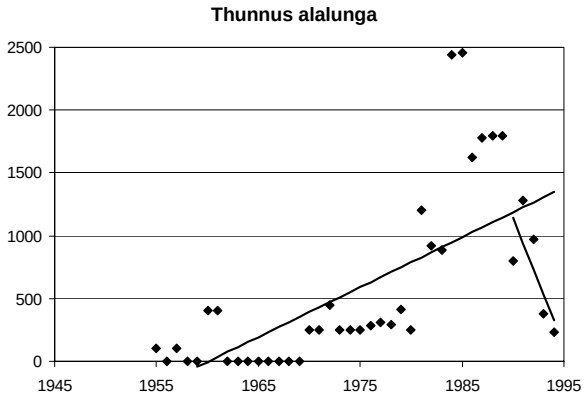
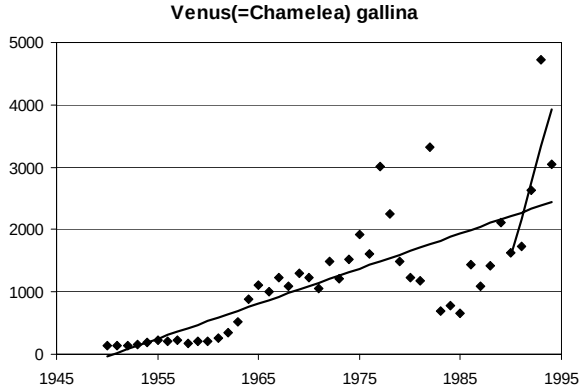




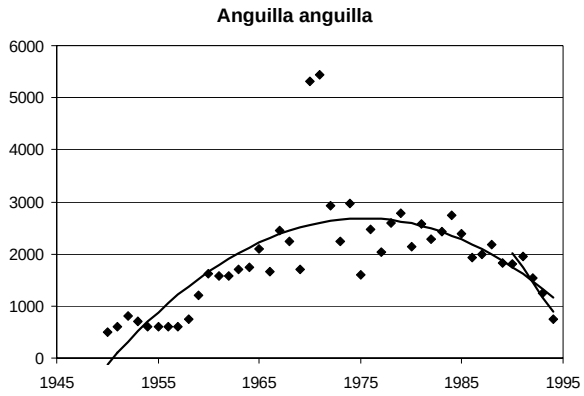


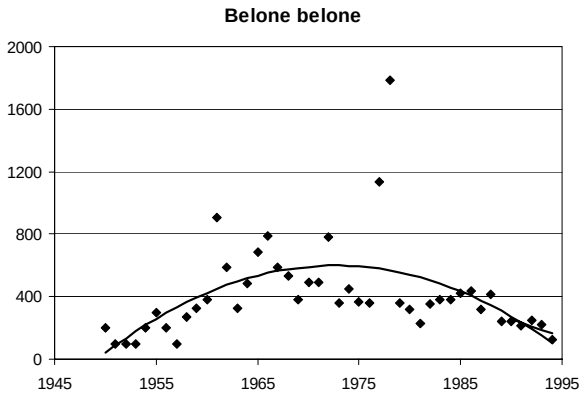
West Mediterranean - Table 4 = Rising: concave downwards **No records.**

West Mediterranean - Table 5 = Dome shaped

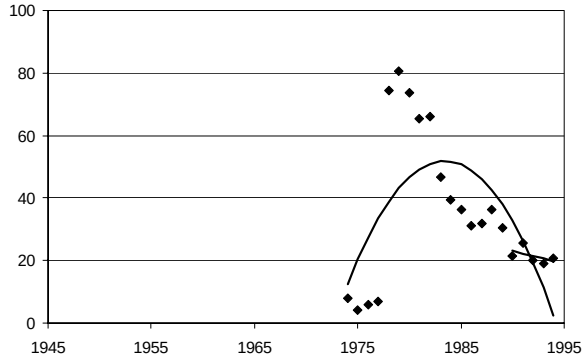
Scientific name	English name	N. Positive Recs.	Country	Catch
NO RECENT TREND				
Anguilla anguilla	European eel	45	France	68.7%
			Italy	23.2%
			Spain	4.5%
			Tunisia	3.1%
			Morocco	0.6%
Belone belone	Garfish	45	Italy	72.7%
			Spain	24.8%
			Tunisia	2.6%
Corallium rubrum	Sardinia coral	21	Italy	36.3%
			Tunisia	22.0%
			Spain	19.1%
			France	11.0%
			Algeria	6.6%
			Morocco	5.1%
Loligo spp	Common squids	45	Spain	54.2%
			Italy	36.6%
			France	9.0%
			Tunisia	0.3%
Mugilidae	Mullets nei	45	Italy	56.6%
			France	29.3%
			Spain	9.7%
			Tunisia	3.8%
			Morocco	0.7%
Mullus spp	Surmullets(=Red mullets)	45	Italy	39.5%
			Spain	37.3%
			Algeria	14.4%
			France	3.7%

			Morocco	2.8%
			Tunisia	2.4%
Mustelus spp	Smoothhounds	45	Italy	89.6%
			Tunisia	9.9%
			France	0.5%
Octopus vulgaris	Common octopus	45	Italy	82.6%
			France	15.5%
			Tunisia	1.9%
Pagellus bogaraveo	Blackspot(=red) seabream	44	Spain	99.1%
			France	0.9%
Pagellus erythrinus	Common pandora	45	Algeria	66.8%
			Spain	17.9%
			France	8.0%
			Tunisia	7.4%
Palinurus spp	Palinurid spiny lobsters nei	45	Italy	70.4%
			Spain	18.1%
			Algeria	8.5%
			Tunisia	2.9%
			Morocco	0.2%
Rajiformes	Skates and rays, nei	45	Italy	53.4%
			Spain	22.8%
			France	10.8%
			Algeria	7.8%
			Tunisia	3.2%
			Morocco	2.1%
Sepia officinalis	Common cuttlefish	45	Italy	86.0%
			France	6.4%
			Tunisia	4.5%
			Algeria	3.2%
Squilla mantis	Spottail mantis squillid	45	Italy	99.5%
			France	0.5%
Trisopterus luscus	Pouting(=Bib)	45	Spain	99.8%
			Morocco	0.2%
RECENTLY DECLINING				
Euthynnus alletteratus	Little tunny(=Atl.black skipj)	45	Tunisia	58.8%
			Spain	40.3%
			Morocco	0.9%

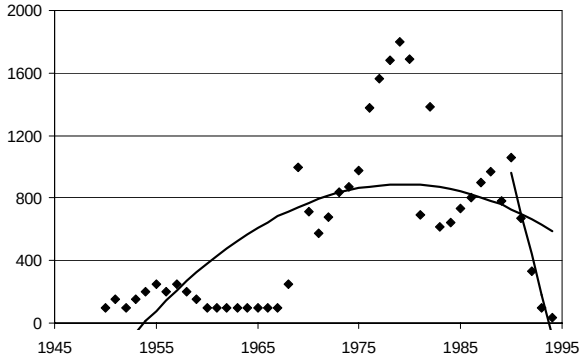




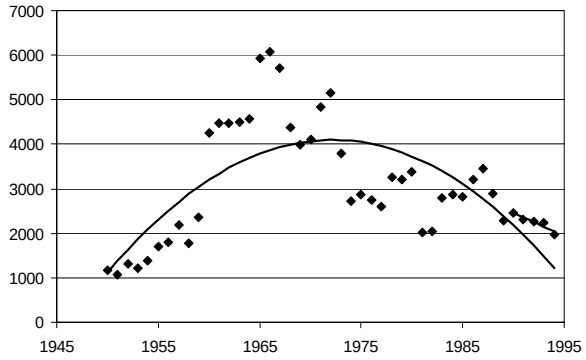
Corallium rubrum



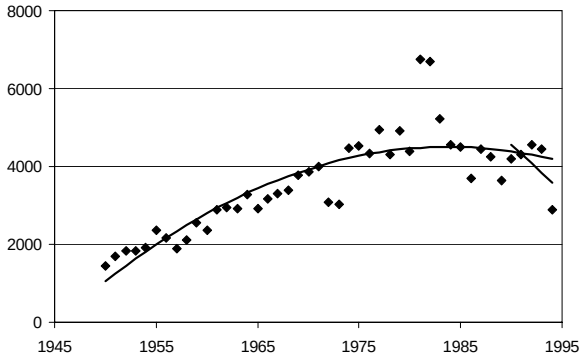
Euthynnus alletteratus



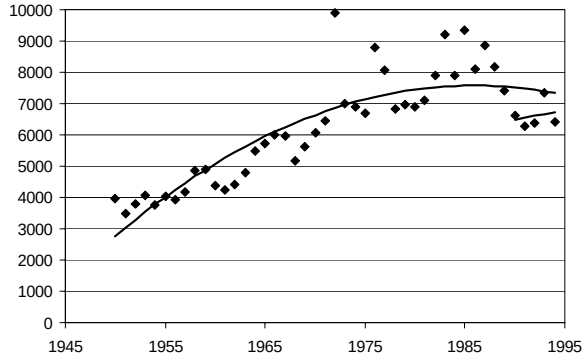
Loligo spp



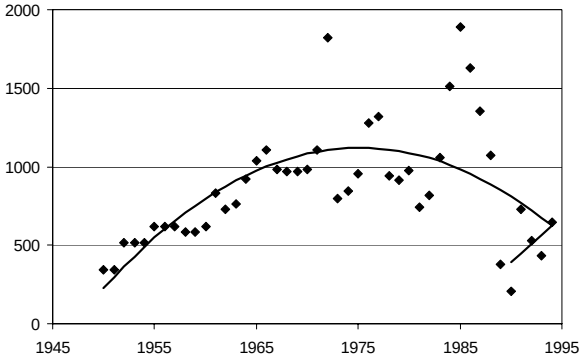
Mugilidae



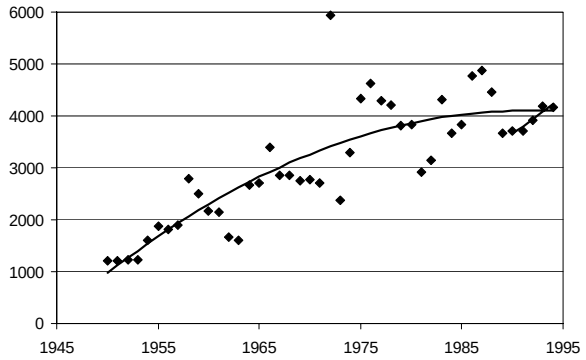
Mullus spp



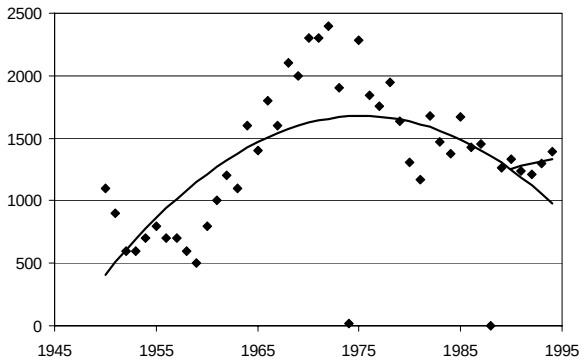
Mustelus spp

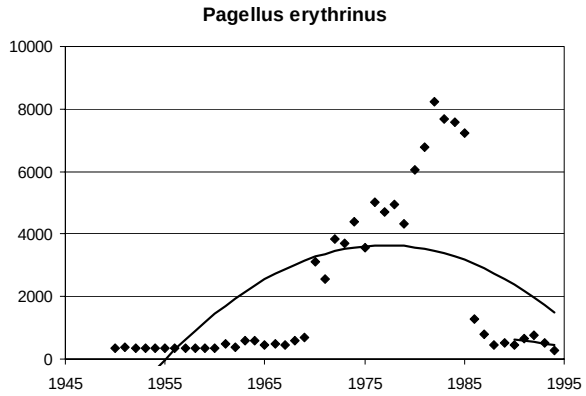


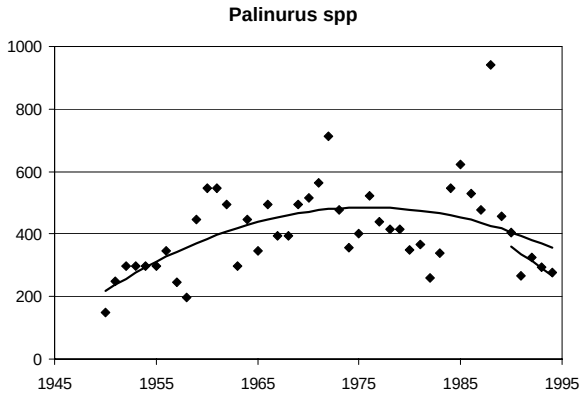
Octopus vulgaris

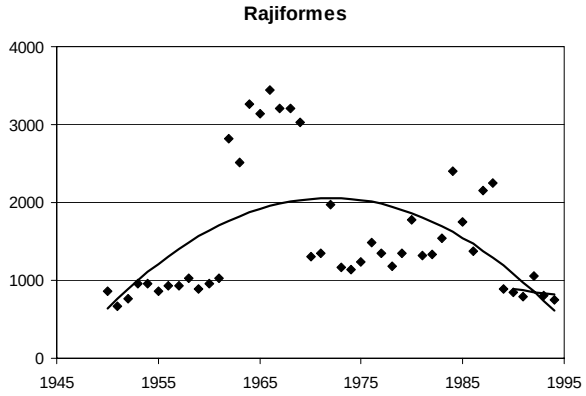


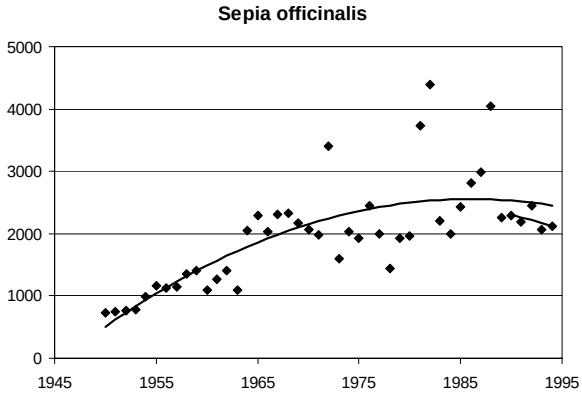
Pagellus bogaraveo

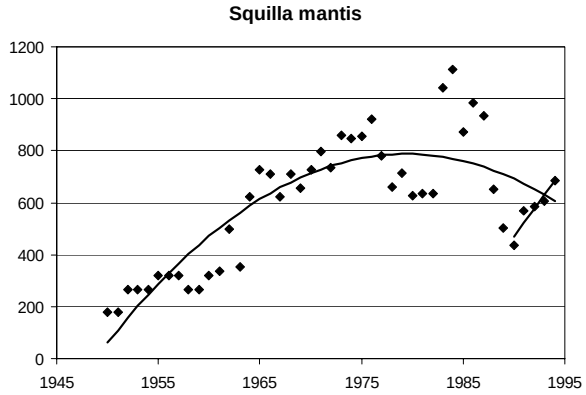


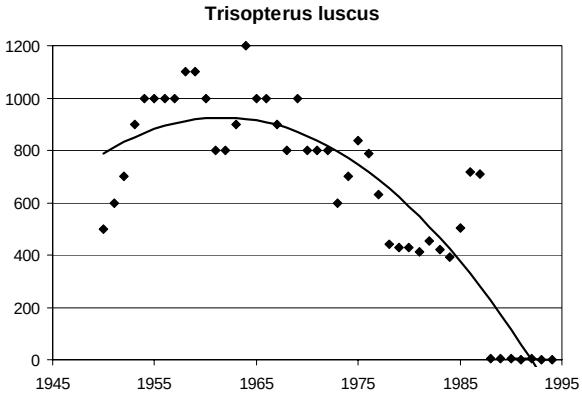






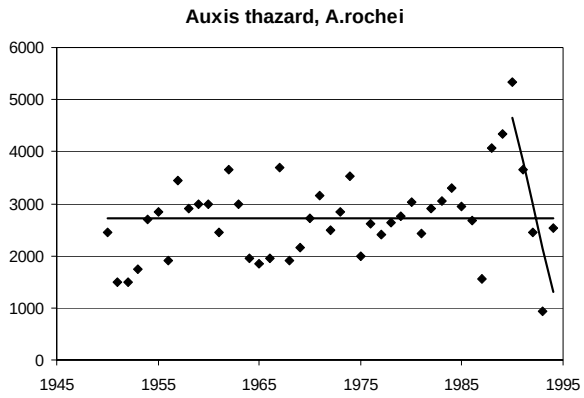


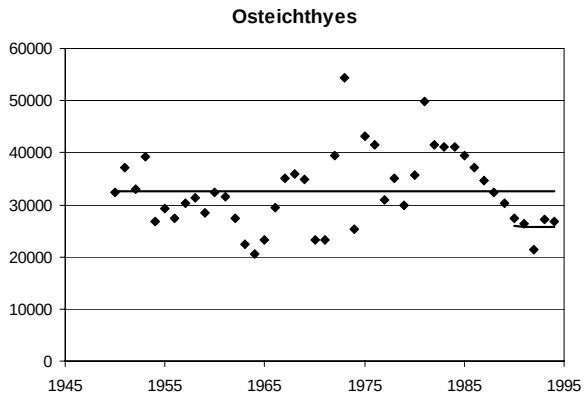


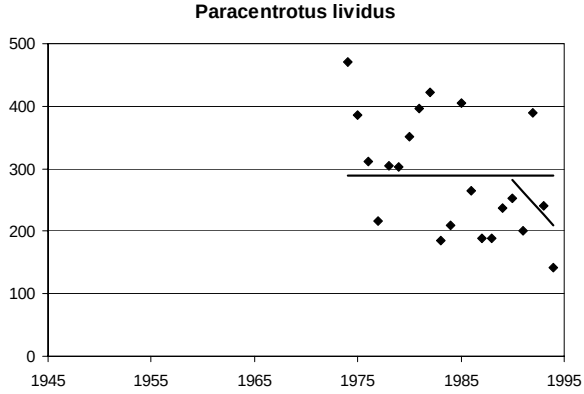


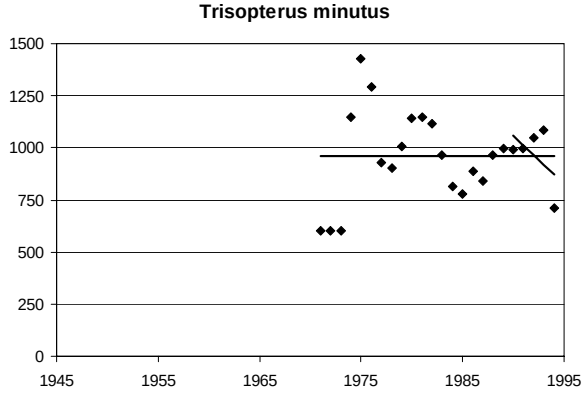
West Mediterranean - Table 6 = Stable fisheries

Scientific name	English name	N. Positive Recs.	Country	Catch
NO RECENT TREND				
Auxis thazard, A.rochei	Frigate and bullet tunas	45	Spain	66.5%
			Italy	16.6%
			Morocco	10.3%
			Tunisia	6.5%
			France	0.0%
Osteichthyes	Marine fishes nei	45	Spain	47.6%
			Italy	26.3%
			France	12.8%
			Algeria	6.6%
			Tunisia	3.6%
			Morocco	3.1%
			Monaco	0.0%
Paracentrotus lividus	Stony sea urchin	21	France	100.0%
Trisopterus minutus	Poor cod	24	France	100.0%





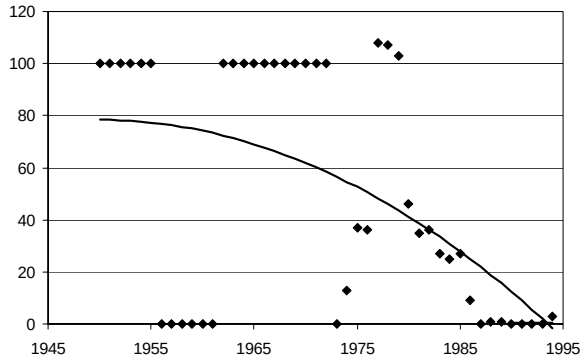




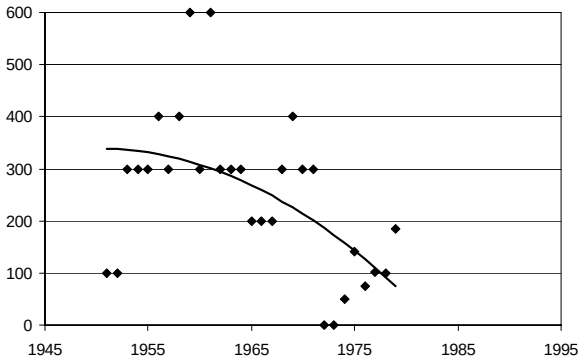
West Mediterranean - Table 7 = Declining: concave downwards

Scientific name	English name	N. Positive Recs.	Country	Catch
NO RECENT TREND				
Argyrosomus regius	Meagre	33	Spain Morocco	91.2% 8.8%
Dentex macrophthalmus	Large-eye dentex	27	Spain	100.0%
Palinurus elephas	Common spiny lobster	31	France	100.0%
Scomber spp	'Scomber' mackerels nei	45	Italy	100.0%
Tapes pullastra	Carpet shell	27	Spain France	69.3% 30.7%
RECENTLY DECLINING				
Spicara spp	Picarels	37	Italy France Tunisia	88.2% 6.1% 5.7%
Spongidae	Sponges nei	14	France Italy Spain	80.8% 16.7% 2.6%

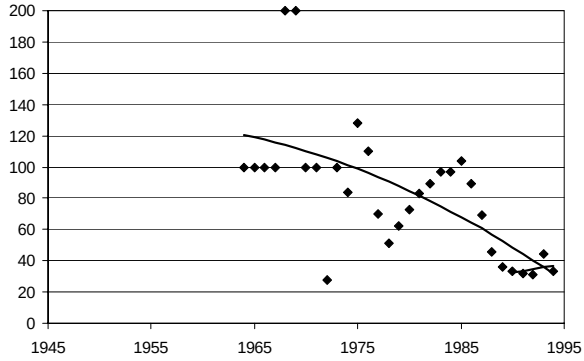
Argyrosomus regius



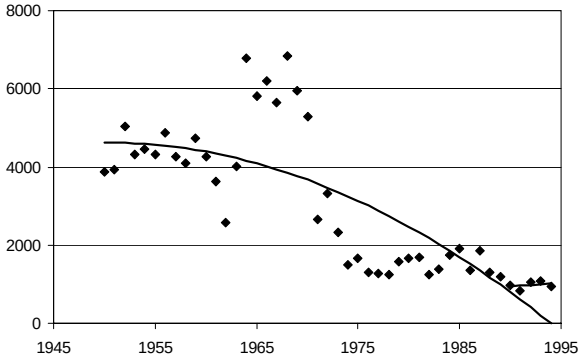
Dentex macrophthalmus



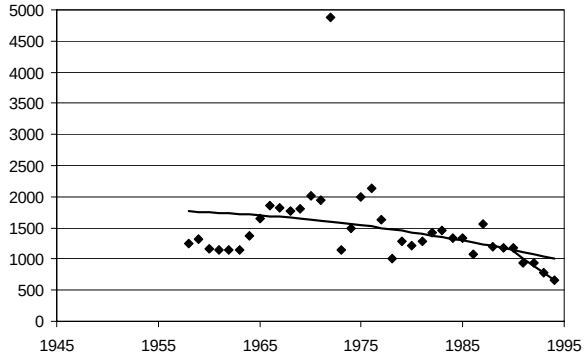
Palinurus elephas



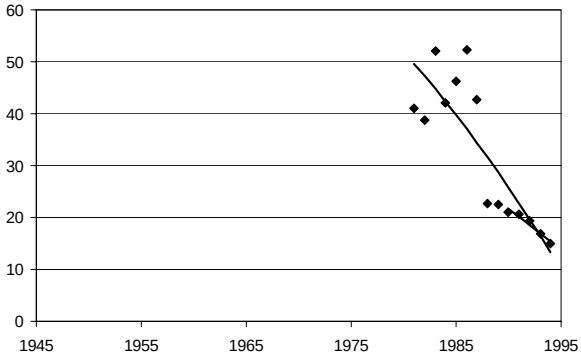
Scomber spp



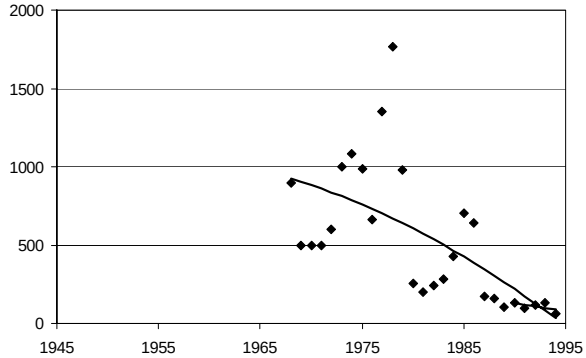
Spicara spp



Spongidae

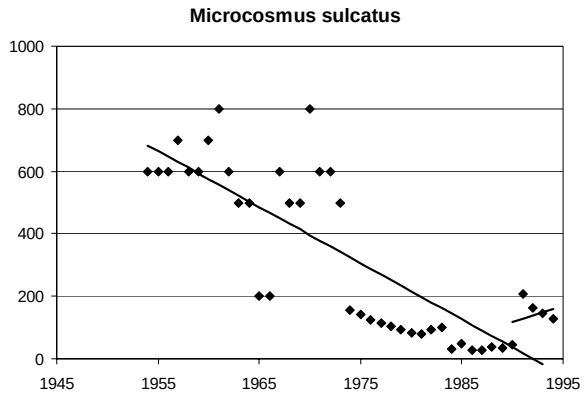


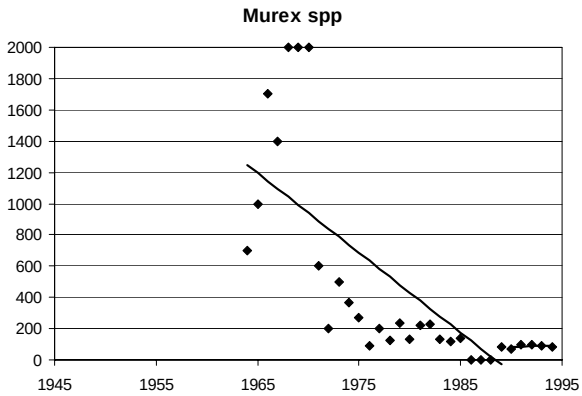
Tapes pullastra

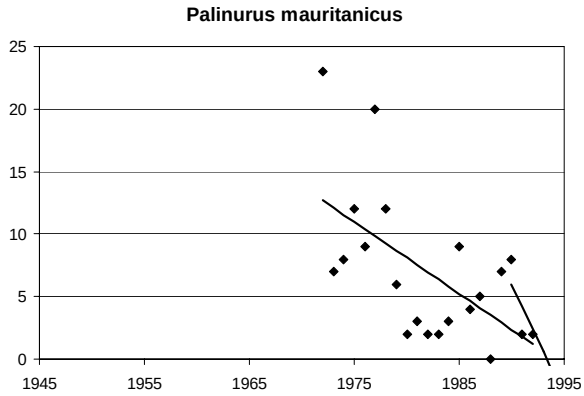


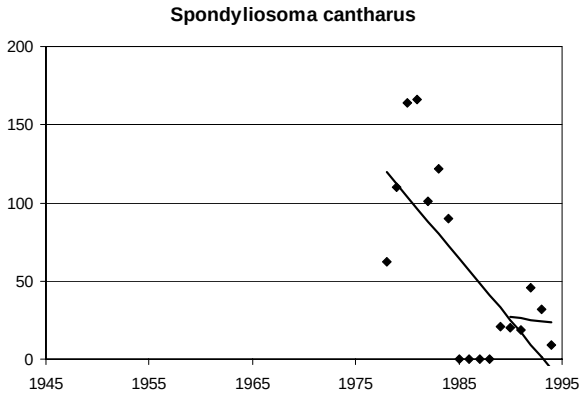
West Mediterranean - Table 8 = Declining: linear

Scientific name	English name	N. Positive Recs.	Country	Catch
NO RECENT TREND				
Microcosmus sulcatus	Grooved sea squirt	41	France	100.0%
Murex spp	Murex	28	France	100.0%
Palinurus mauritanicus	Pink spiny lobster	20	France	100.0%
Spondyliosoma cantharus	Black seabream	13	France Morocco	88.2% 11.9%









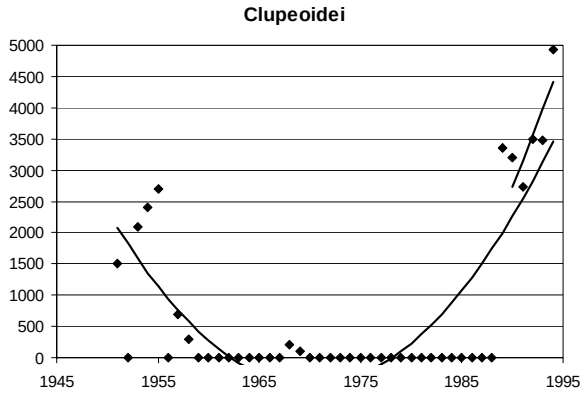
West Mediterranean - Table 9 = Declining: concave upward

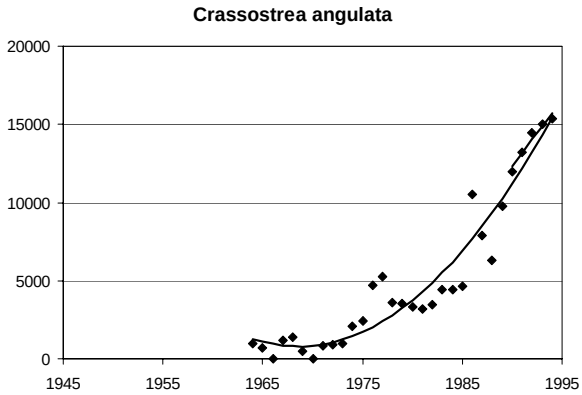
No records.

West Mediterranean - Table 10 = Recovering fisheries

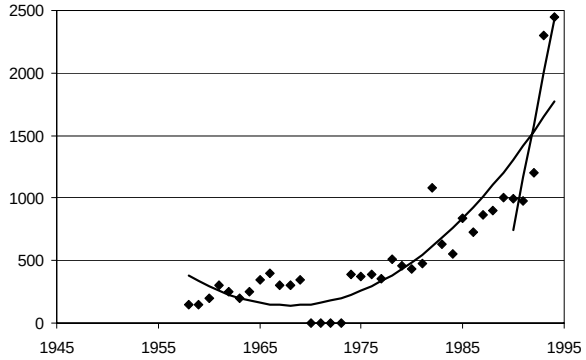
Scientific name	English name	N. Positive Recs.	Country	Catch
RECENTLY RISING				
Crassostrea angulata	Portuguese cupped oyster	29	France Spain	100.0% 0.0%
Elasmobranchii	Sharks, rays, skates, etc	45	Spain France Algeria Morocco	70.8% 16.4% 11.9% 0.9%
NO RECENT TREND				
Clupeoidei	Clupeoids nei	16	Algeria Spain France	99.0% 1.0% 0.0%
Dicentrarchus labrax	European seabass	33	France	82.9%

			Italy	15.2%
			Morocco	1.9%
Loliginidae, Ommastrephidae	Squids nei	38	Spain	82.5%
			France	10.2%
			Morocco	7.3%
Nephrops norvegicus	Norway lobster	45	Spain	54.0%
			Italy	37.6%
			Algeria	8.0%
			France	0.3%
			Morocco	0.2%
			Tunisia	0.0%
Pagellus acarne	Axillary seabream	39	Spain	92.0%
			France	8.0%
Parapenaeus longirostris	Deepwater rose shrimp	45	Spain	69.9%
			Algeria	29.3%
			Tunisia	0.8%
			France	0.1%
Polyprion americanus	Wreckfish	20	Spain	100.0%
Ruditapes decussatus	Grooved carpet shell	40	Spain	87.0%
			France	11.5%
			Tunisia	1.2%
			Algeria	0.3%
Sardinella spp	Sardinellas nei	45	Spain	41.0%
			Algeria	36.1%
			Morocco	14.2%
			Tunisia	8.8%
Sphyraena spp	Barracudas	18	Algeria	95.6%
			Tunisia	4.4%
Thunnus thynnus	Northern bluefin tuna	45	France	39.8%
			Italy	34.2%
			Spain	12.7%
			Algeria	5.8%
			Morocco	4.7%
			Tunisia	2.8%
Trachinus draco	Greater weever	13	France	100.0%

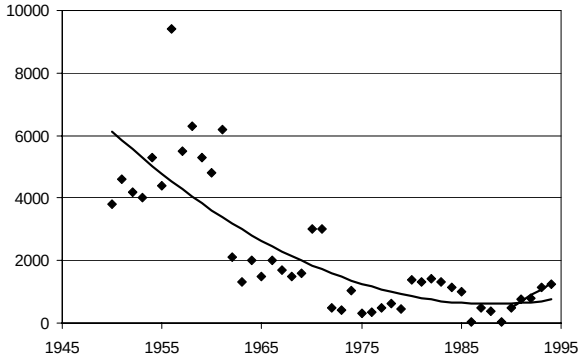




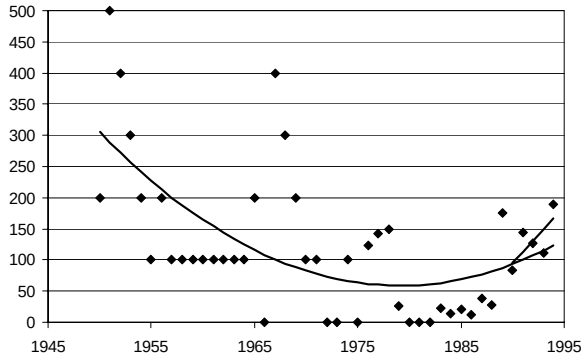
Dicentrarchus labrax



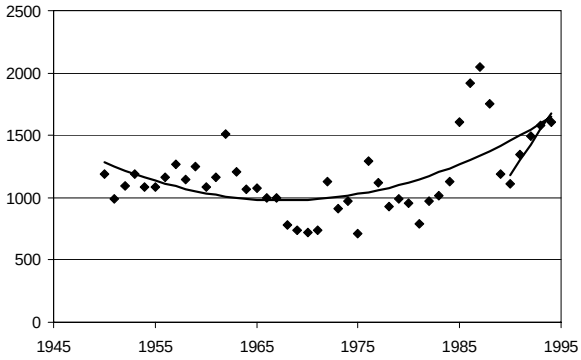
Elasmobranchii



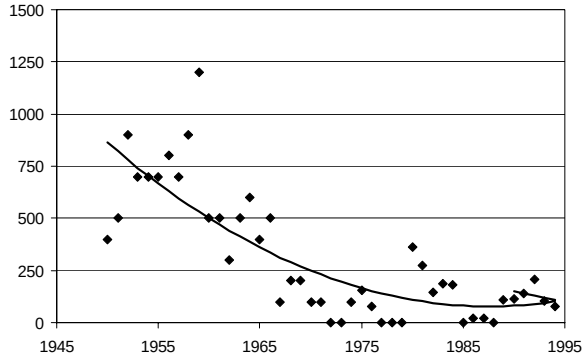
Loliginidae, Ommastrephidae



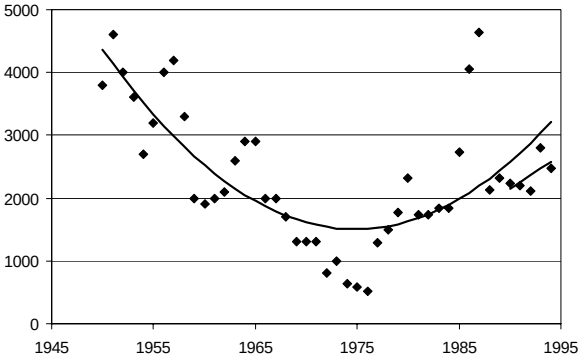
Nephrops norvegicus



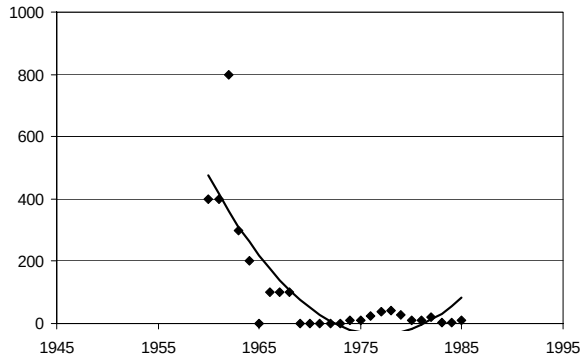
Pagellus acarne



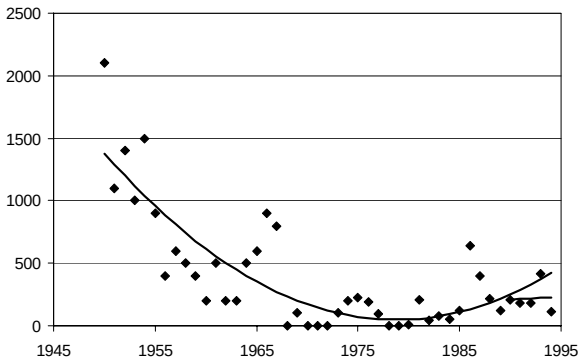
Parapenaeus longirostris

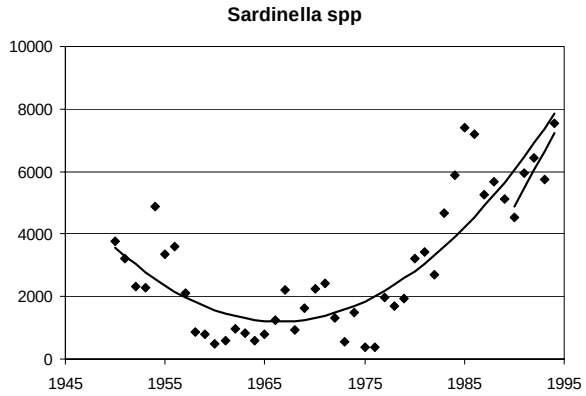


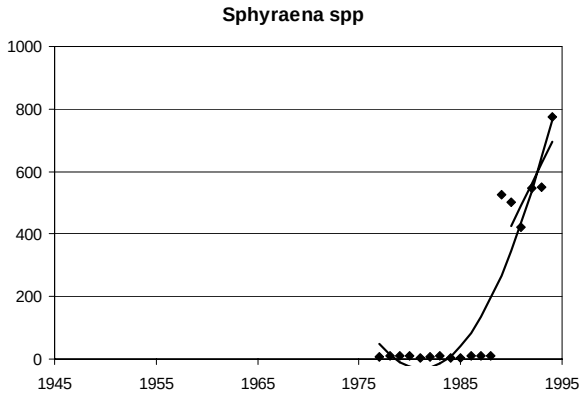
Polyprion americanus

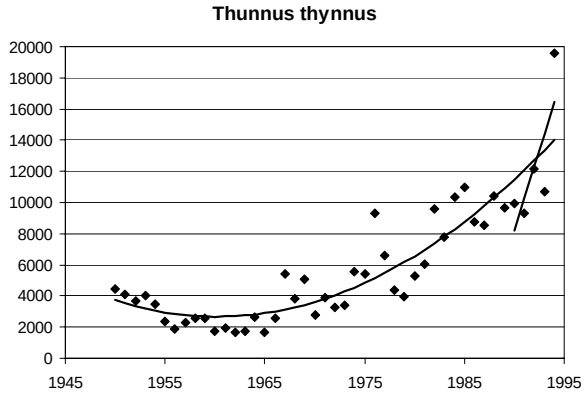


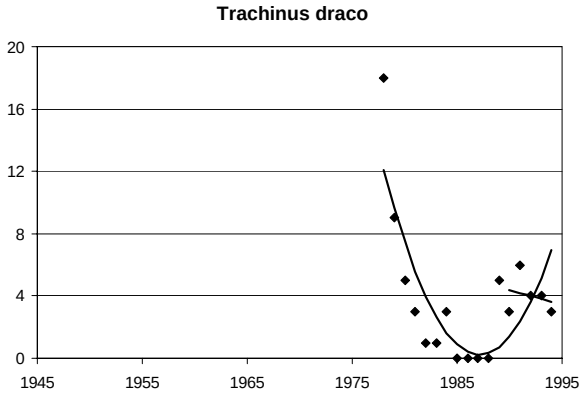
Ruditapes decussatus





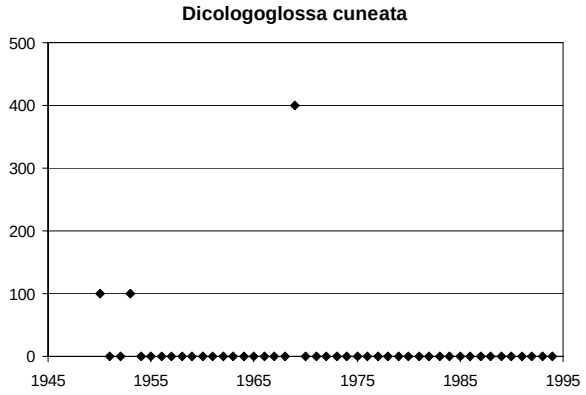


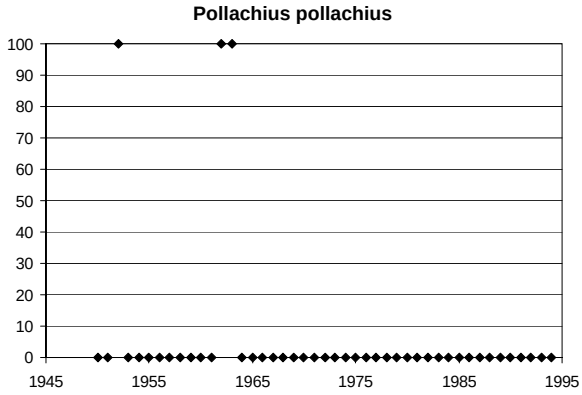




West Mediterranean - Table 11 = Collapsed fisheries

Scientific name	English name	N. Positive Recs.	Country	Catch
Dicologoglossa cuneata	Wedge sole	3	Spain	100.0%
Pollachius pollachius	Pollack	3	Spain	100.0%



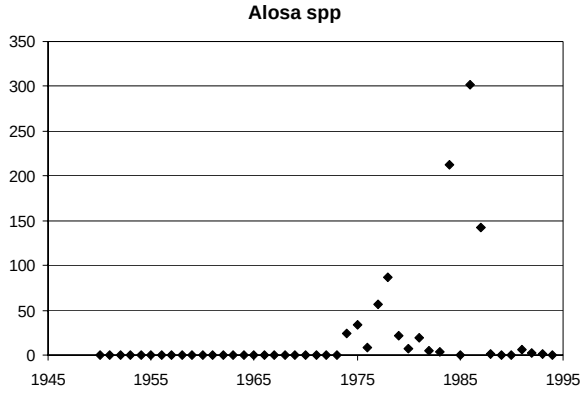


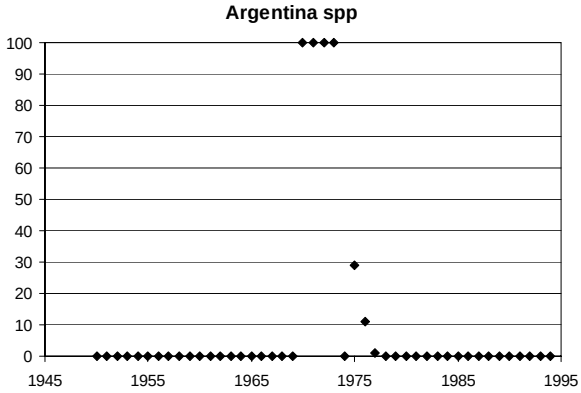
West Mediterranean - Table 12 = Intermittent fisheries

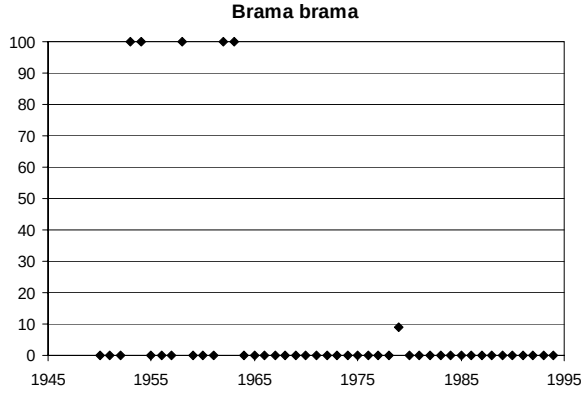
Scientific name	English name	N. Positive Recs.	Country	Catch
Alosa spp	Shads nei	17	Morocco Tunisia	95.3% 4.7%

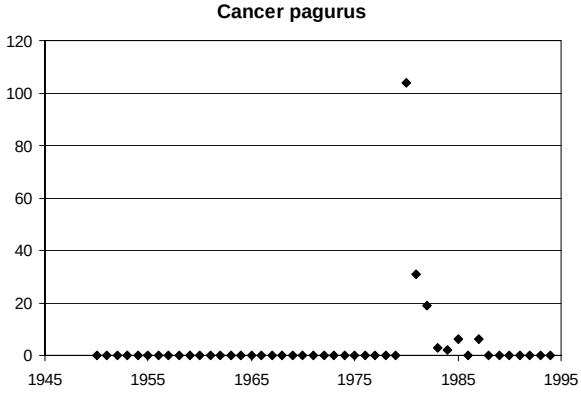
Argentina spp	Argentines	7	France	100.0%
Brama brama	Atlantic pomfret	6	Spain	100.0%
Cancer pagurus	Edible crab	7	Spain	100.0%
Cardium edule	Common cockle	20	Spain	100.0%
Dentex spp	Dentex nei	6	Spain	100.0%
Eledone spp	Horned and musky octopuses	33	Italy	100.0%
Gobius spp	Atlantic gobies	11	France	100.0%
Homarus gammarus	European lobster	23	France Tunisia Algeria Spain Morocco	37.1% 31.2% 28.3% 2.6% 0.9%
Katsuwonus pelamis	Skipjack tuna	9	Morocco Spain	76.6% 23.4%
Maja squinado	Spinous spider crab	18	France Spain	97.6% 2.5%
Mugil cephalus	Flathead grey mullet	18	Tunisia	100.0%
Orcynopsis unicolor	Plain bonito	15	Morocco	100.0%
Ostrea edulis	European flat oyster	25	France Spain	89.2% 10.8%
Palaemon serratus	Common prawn	17	France	100.0%
Pecten jacobaeus	Great mediterranean scallop	10	France Spain	97.9% 2.1%
Penaeus kerathurus	Caramote prawn	45	Spain Tunisia	70.0% 30.0%
Perciformes	Pelagic percomorphs nei	1	Spain	100.0%
Perciformes	Demersal percomorphs nei	22	Spain Algeria France	58.8% 38.1% 3.2%
Percoidei	Percoids nei	2	Tunisia	100.0%
Phycis blennoides	Greater forkbeard	43	Spain Morocco Tunisia	98.8% 1.1% 0.1%
Platichthys flesus	European flounder	13	France	100.0%
Plectorhinchus mediterraneus	Rubberlip grunt	21	Spain	100.0%
Pleuronectes platessa	European plaice	10	France	100.0%
Pleuronectiformes	Flatfishes nei	33	Italy Spain Tunisia France Morocco	67.0% 21.0% 8.2% 2.6% 1.2%
Pomatomus saltatrix	Bluefish	19	Tunisia Spain Morocco	49.0% 45.6% 5.5%
Psetta maxima maxima	Turbot	24	France Spain	90.2% 9.8%
Sciaenidae	Croakers, drums nei	1	France	100.0%
Scombridae	Mackerels, nei	20	Spain	100.0%
Scombroidei	Mackerel-like fishes nei	19	France Algeria	62.3% 37.7%
Sepiidae, Sepiolidae	Cuttlefishes, bobtail squids	45	Spain Morocco	94.8% 5.2%
Serranidae	Groupers, seabasses nei	19	Spain Tunisia	68.2% 31.8%
Solen spp	Razor clams	7	Spain	100.0%

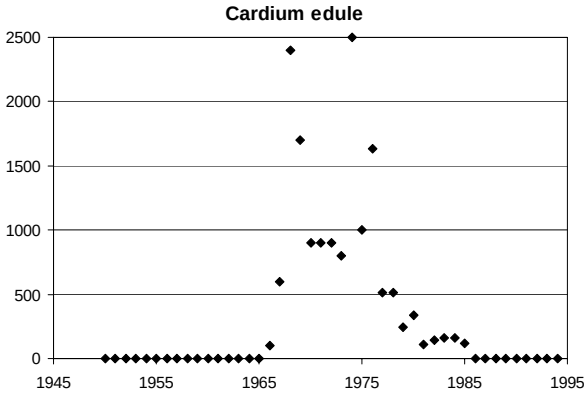
Squalus acanthias	Picked dogfish	13	France	100.0%
Trachurus spp	Jack and horse mackerels nei	45	Spain	59.4%
			Morocco	12.1%
			Italy	11.6%
			Algeria	10.4%
			Tunisia	4.5%
			France	2.0%
Triglidae	Gurnards, searobins nei	23	France	87.2%
			Tunisia	8.2%
			Morocco	4.6%
Umbrina cirrosa	Shi drum	20	Tunisia	100.0%

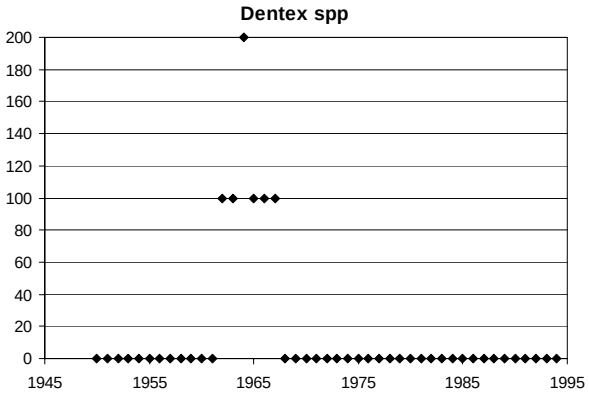




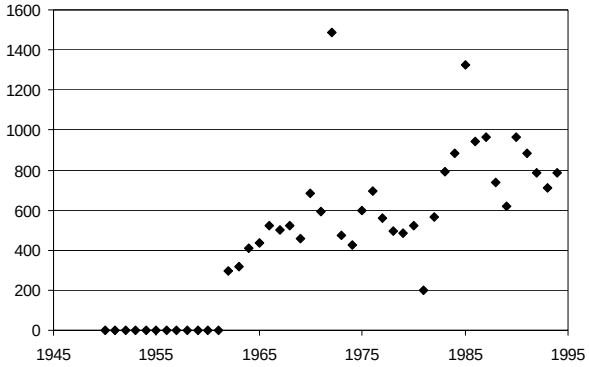




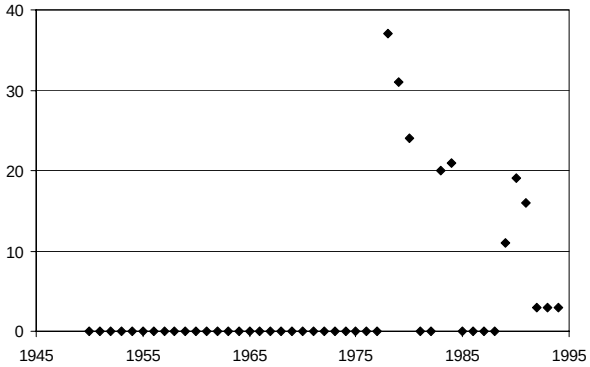




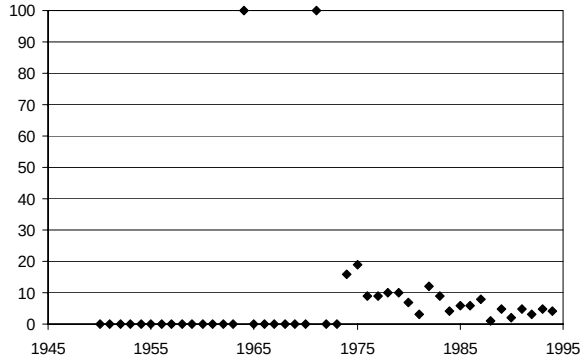
Eledone spp



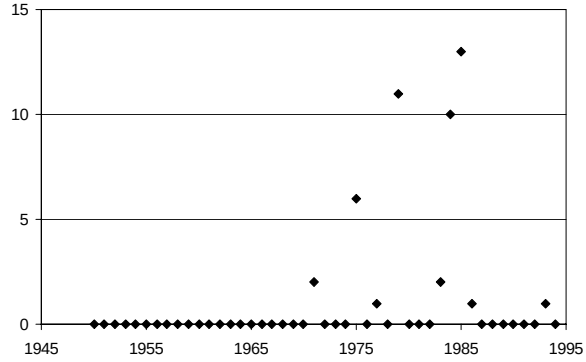
Gobius spp



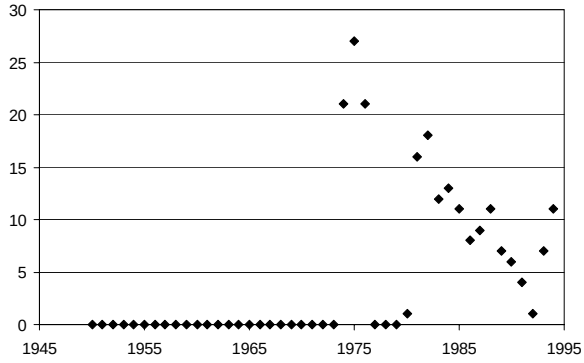
Homarus gammarus



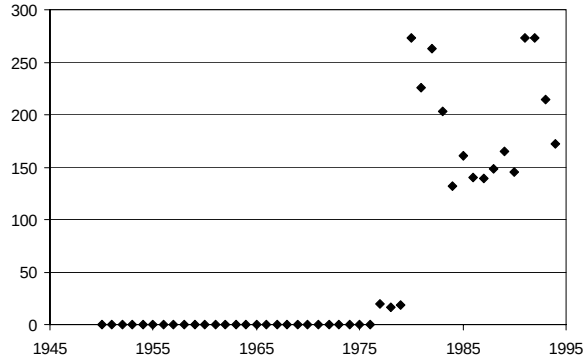
Katsuwonus pelamis



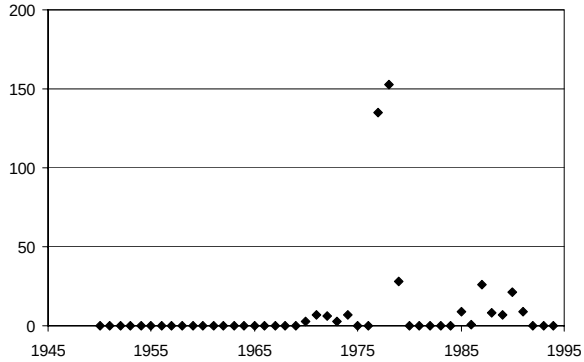
Maja squinado



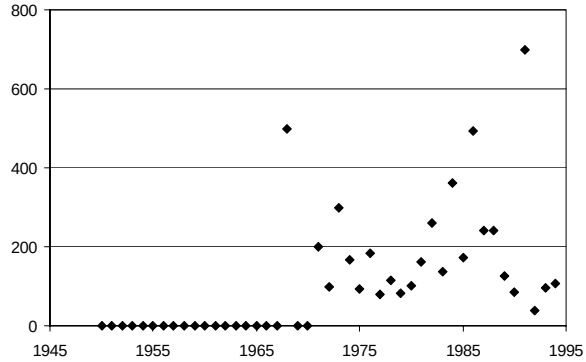
Mugil cephalus



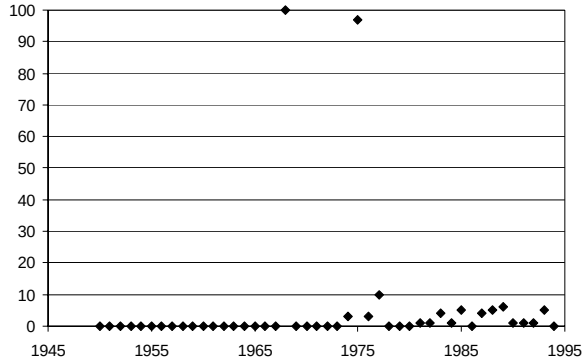
Orcynopsis unicolor



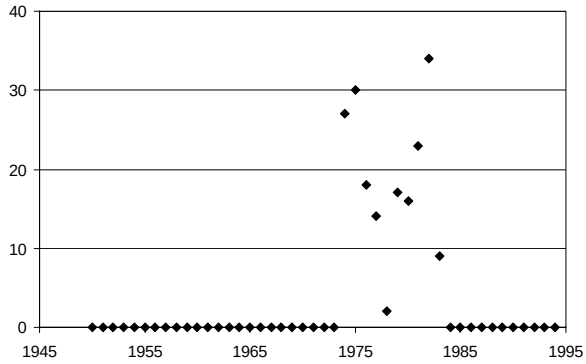
Ostrea edulis



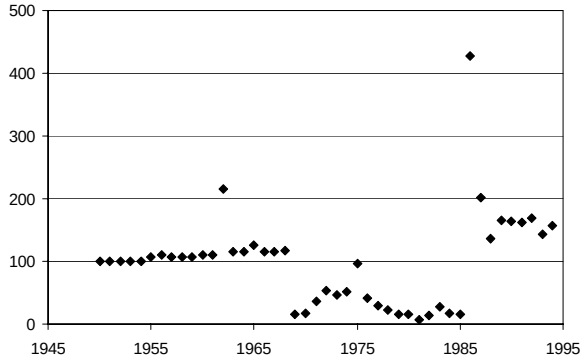
Palaemon serratus



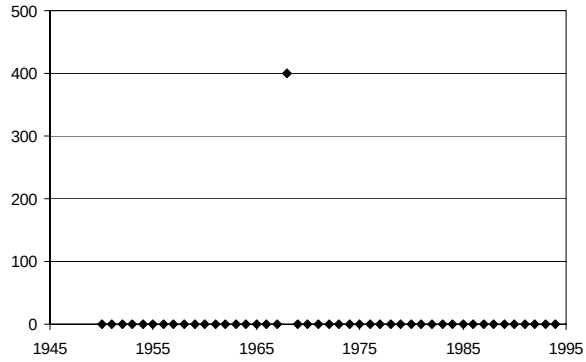
Pecten jacobaeus



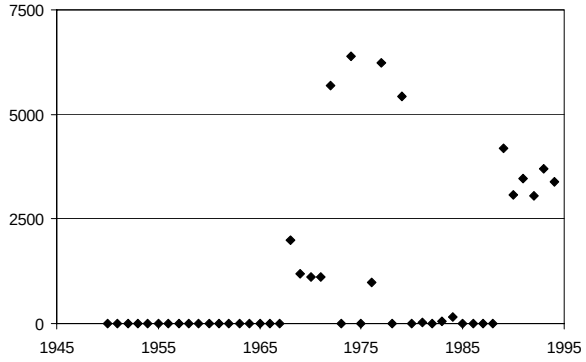
Penaeus kerathurus



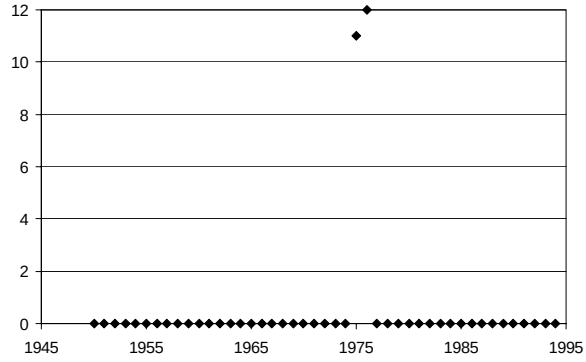
Perciformes



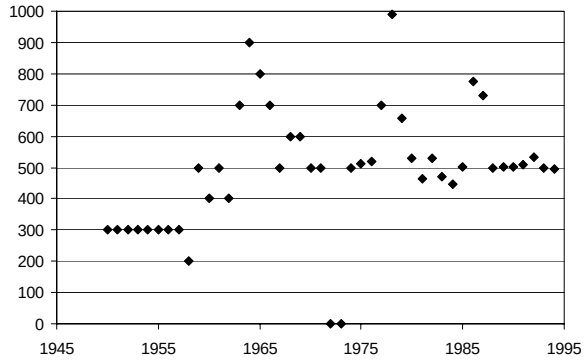
Perciformes



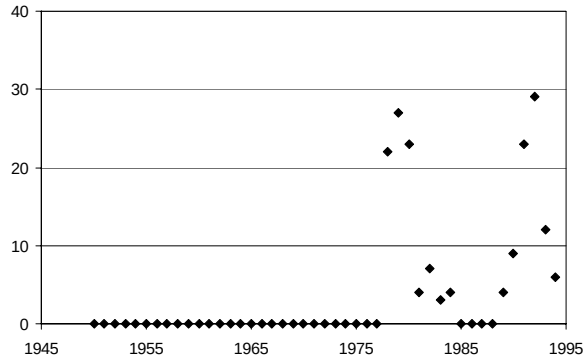
Percoidei



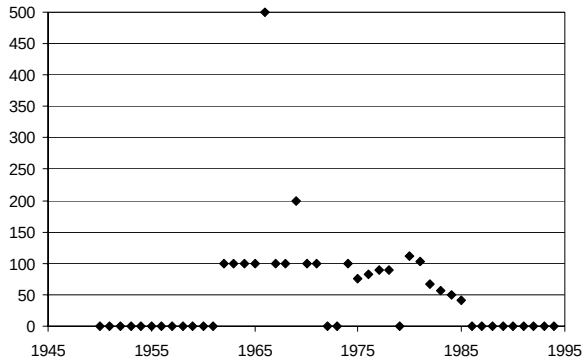
Phycis blennoides



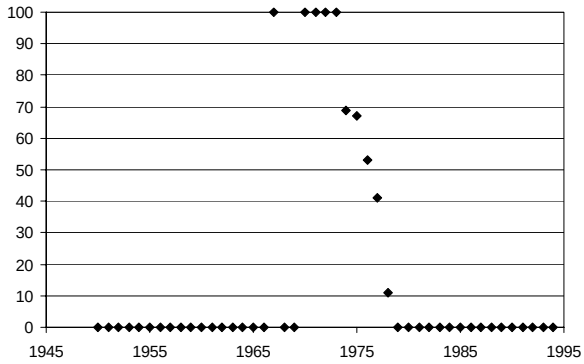
Platichthys flesus



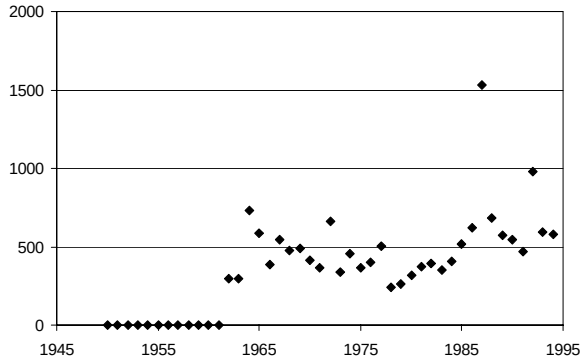
Plectorhinchus mediterraneus



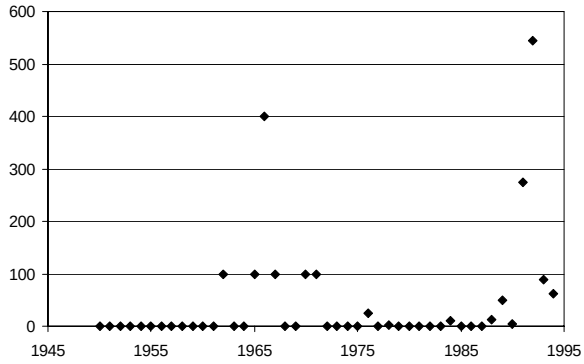
Pleuronectes platessa



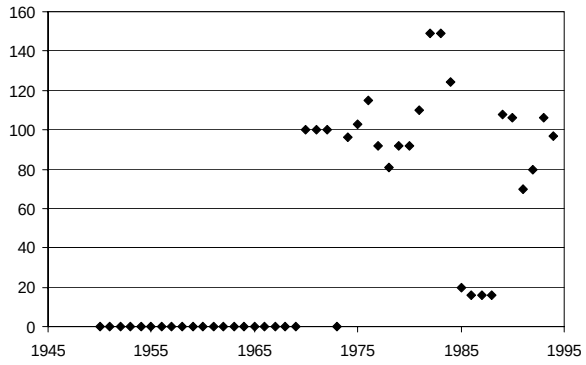
Pleuronectiformes



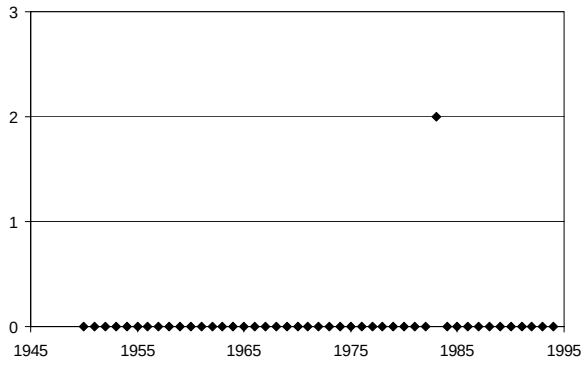
Pomatomus saltatrix



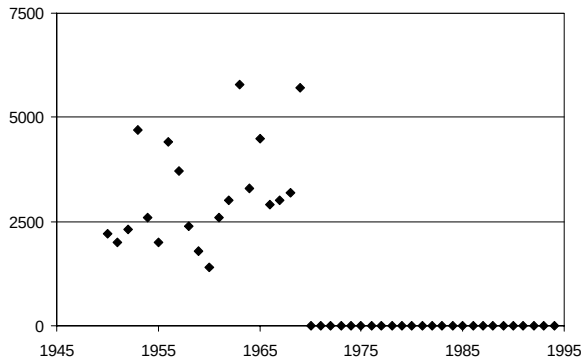
Psetta maxima maxima



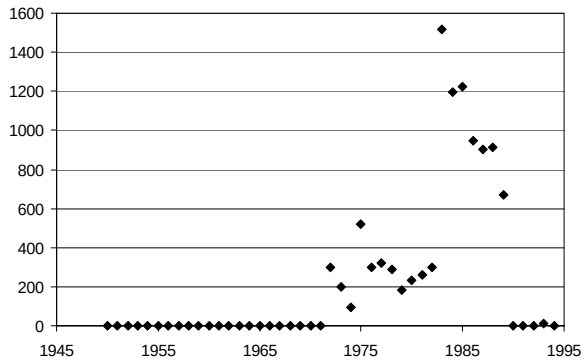
Sciaenidae



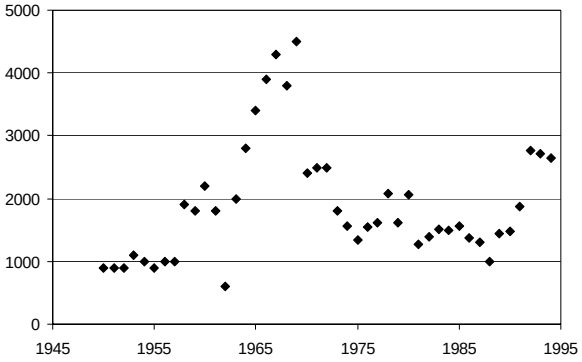
Scombridae



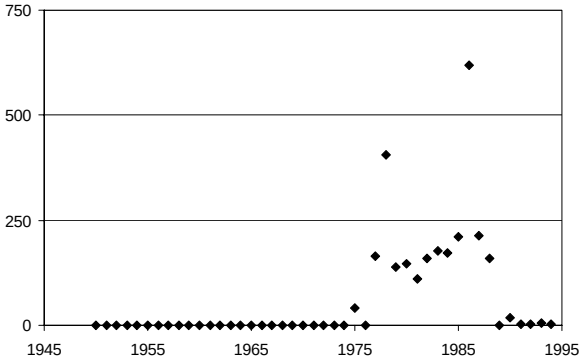
Scombroidei



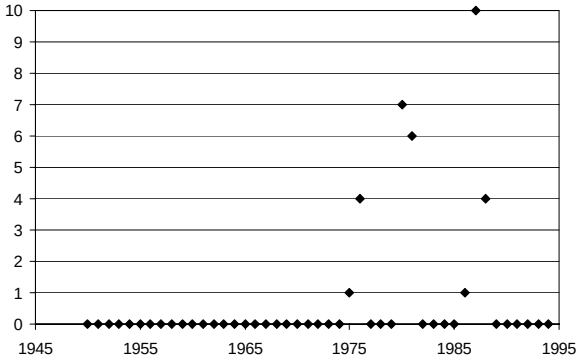
Sepiidae, Sepiolidae



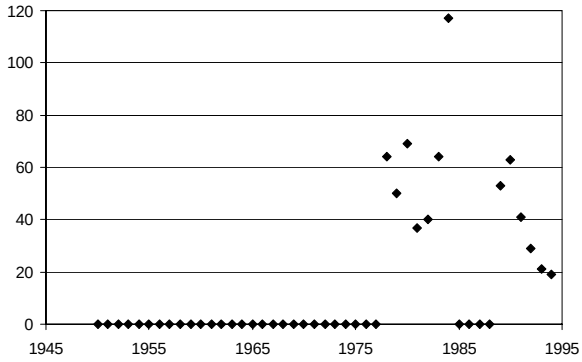
Serranidae



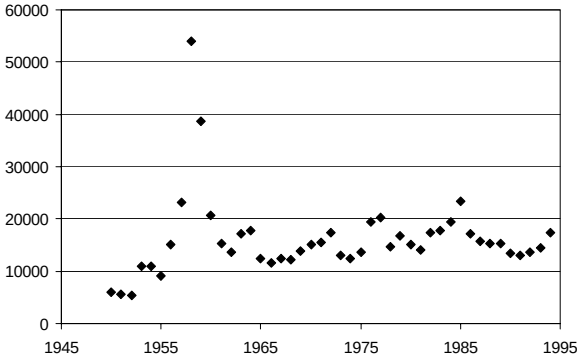
Solen spp



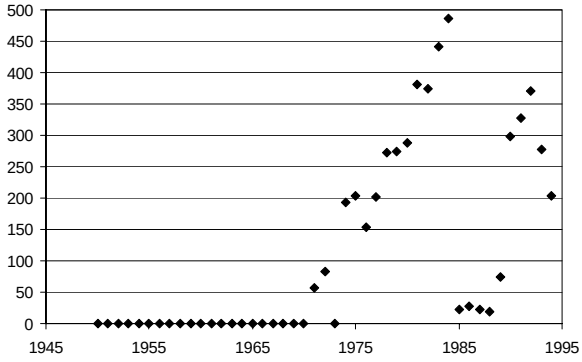
Squalus acanthias



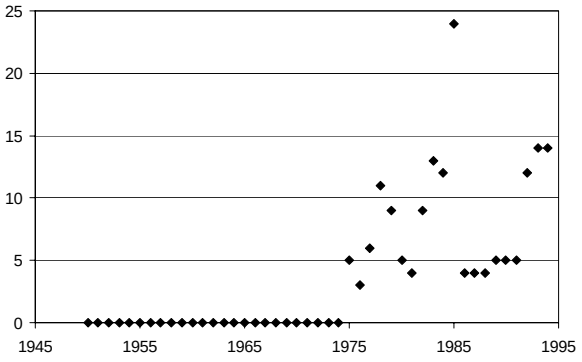
Trachurus spp



Triglidae



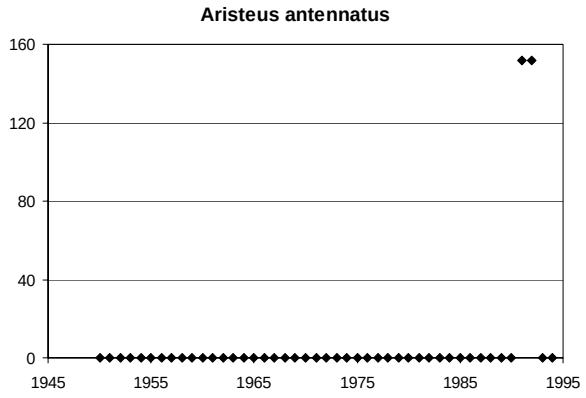
Umbrina cirrosa

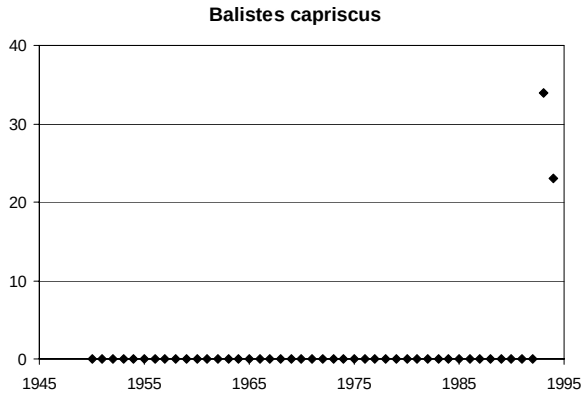


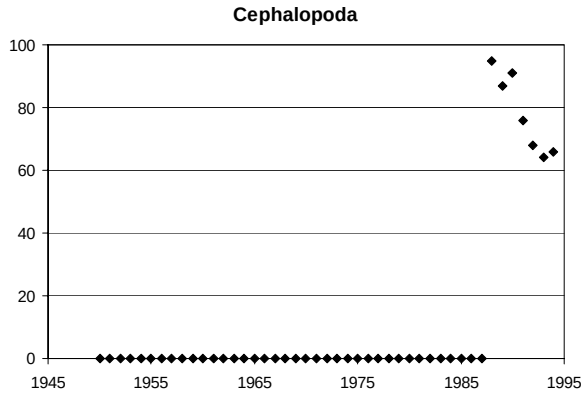
B/ East Mediterranean. Tables and figures

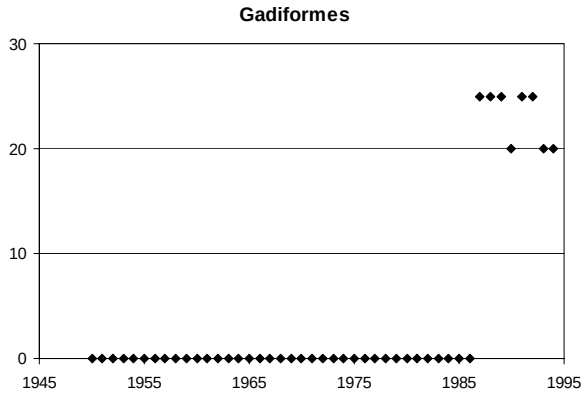
East Mediterranean - Table 1 = New fisheries

Scientific name	English name	N. Positive Recs.	Country	Catch
Aristeus antennatus	Blue and red shrimp	2	Tunisia	100.0%
Balistes capriscus	Grey triggerfish	2	Tunisia	100.0%
Cephalopoda	Cephalopods nei	7	Israel	100.0%
Gadiformes	Gadiformes nei	8	Lebanon	100.0%
Lepidopus caudatus	Silver scabbardfish	5	Tunisia	100.0%
Lophius piscatorius	Angler(=Monk)	9	Malta Tunisia	52.7% 47.3%
Orcynopsis unicolor	Plain bonito	2	Libya	100.0%
Parapenaeus longirostris	Deepwater rose shrimp	9	Tunisia Israel	89.3% 10.7%
Rhopilema spp	Jellyfishes	10	Turkey	100.0%
Ruditapes decussatus	Grooved carpet shell	3	Tunisia	100.0%
Scyliorhinus spp	Catsharks, nursehound	6	Tunisia	100.0%
Seriola spp	Amberjacks nei	7	Tunisia	100.0%
Siganus spp	Spinefeet(=Rabbitfishes)	10	Israel	100.0%
Spicara maena	Blotched picarel	6	Tunisia	100.0%
Squatina squatina	Angelshark	5	Tunisia	100.0%
Tapes spp	Carpet shells nei	10	Italy	100.0%
Trachinus draco	Greater weever	2	Tunisia	100.0%

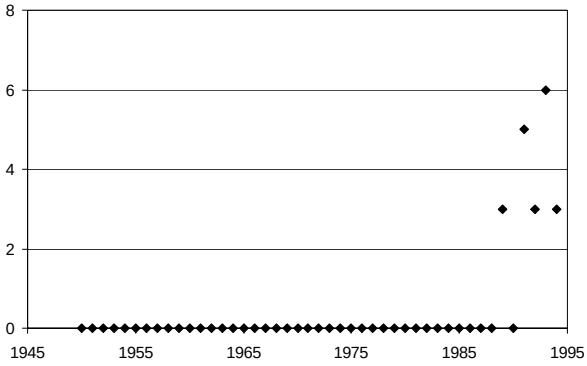




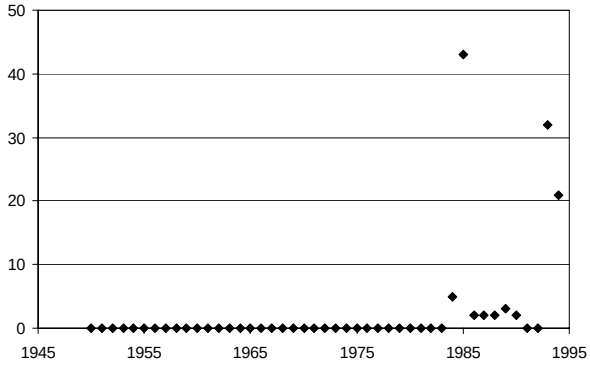




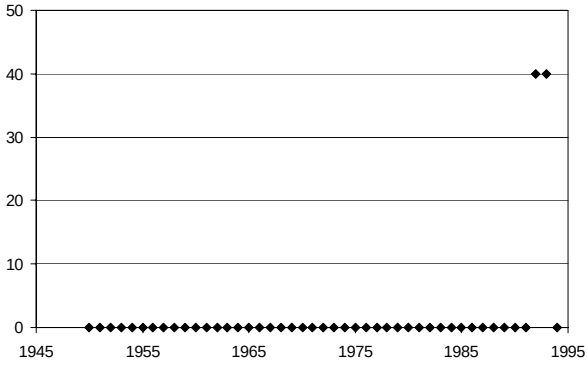
Lepidopus caudatus



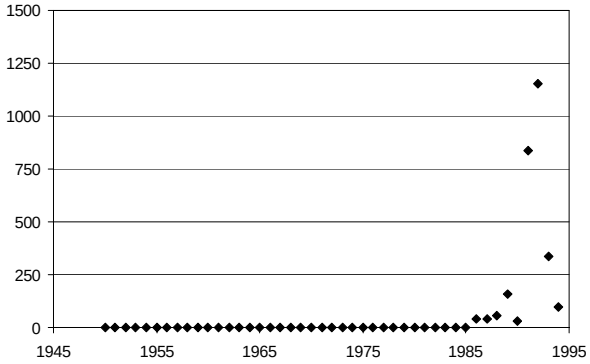
Lophius piscatorius



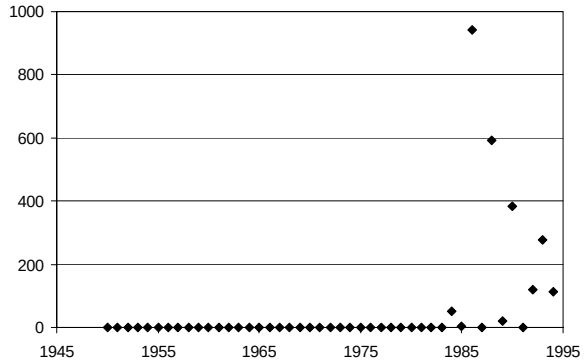
Orcynopsis unicolor



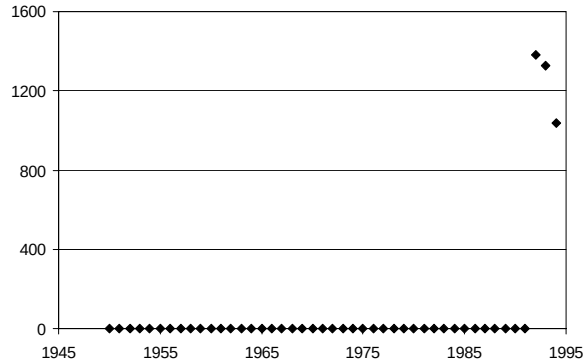
Parapenaeus longirostris



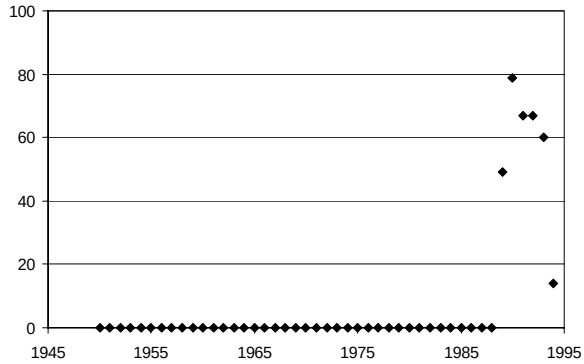
Rhopilema spp



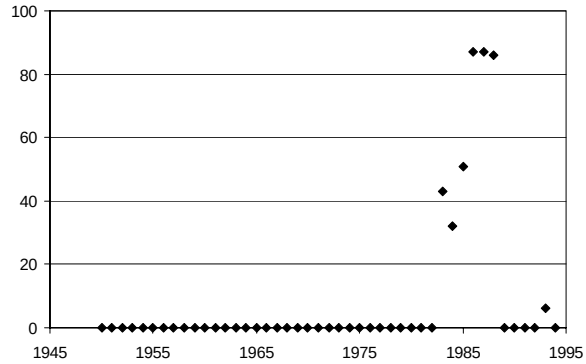
Ruditapes decussatus

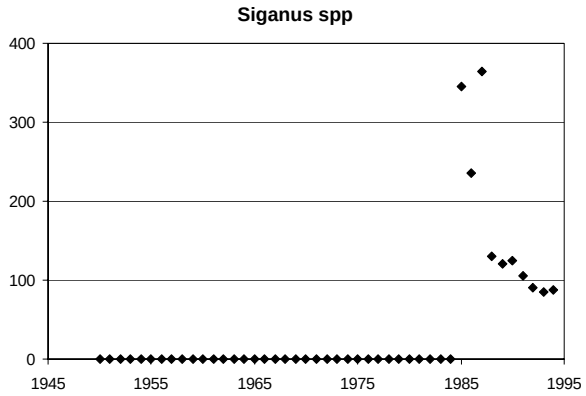


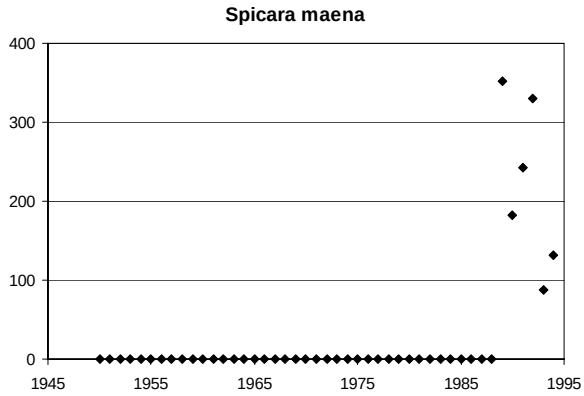
Scyliorhinus spp

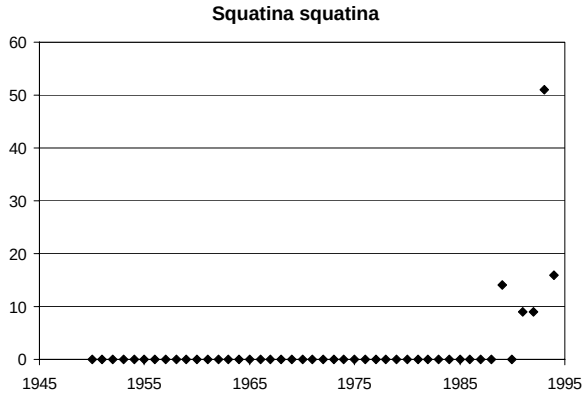


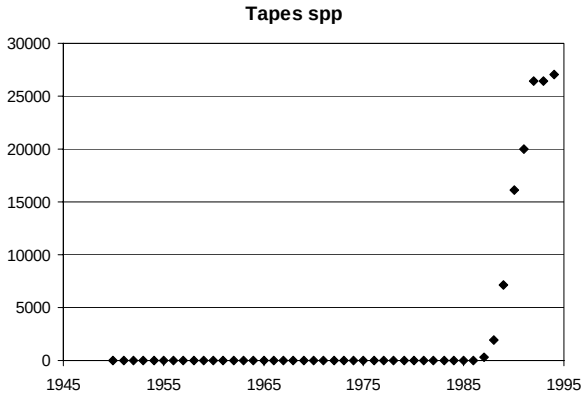
Seriola spp

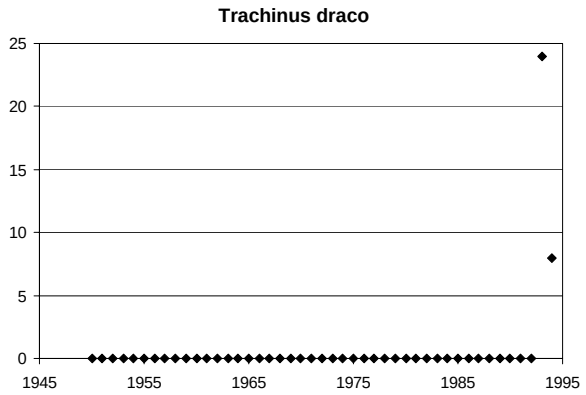












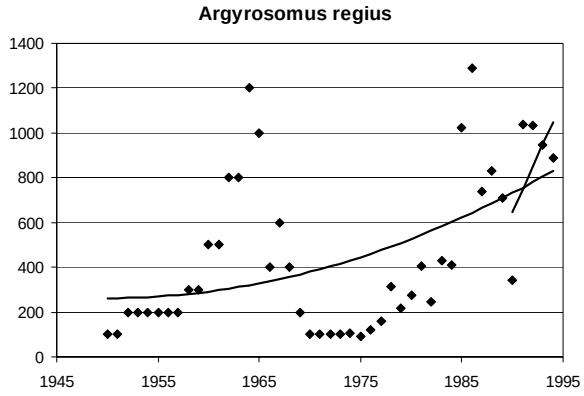
East Mediterranean - Table 2 = Rising: concave upward

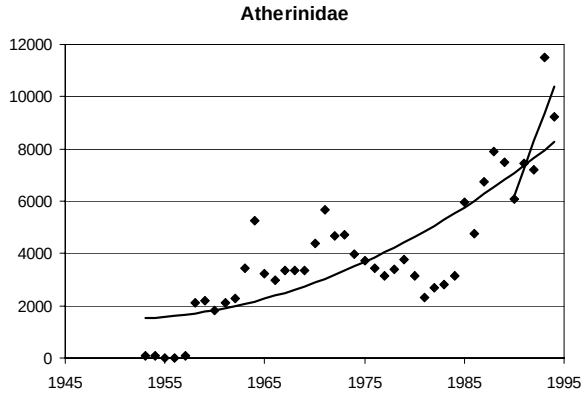
Scientific name	English name	N. Positive Recs.	Country	Catch
RECENTLY RISING				
Micromesistius poutassou	Blue whiting(=Poutassou)	45	Italy Greece Turkey	41.1% 31.8% 27.0%
NO RECENT TREND				
Argyrosomus regius	Meagre	45	Egypt Turkey Israel Malta	76.9% 18.4% 4.7% 0.0%
Atherinidae	Silversides(=Sand smelts)	40	Italy Turkey Egypt	59.8% 20.9% 16.0%

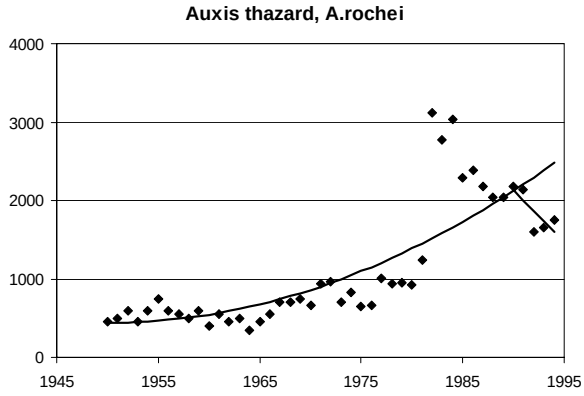
			Yugoslav SFR	2.8%
			Croatia	0.4%
			Tunisia	0.1%
			YugoslaviaFR	0.0%
Auxis thazard, A.rochei	Frigate and bullet tunas	45	Greece	40.8%
			Italy	39.9%
			Tunisia	15.7%
			Yugoslav SFR	2.9%
			Malta	0.5%
			Croatia	0.2%
			YugoslaviaFR	0.0%
Carangidae	Carangids nei	39	Malta	63.0%
			Israel	20.9%
			Lebanon	16.1%
Dentex dentex	Common dentex	45	Italy	56.3%
			Greece	16.0%
			Tunisia	12.5%
			Turkey	10.2%
			Yugoslav SFR	4.4%
			Egypt	0.3%
			Croatia	0.2%
			Malta	0.1%
			YugoslaviaFR	0.0%
Dentex macrophthalmus	Large-eye dentex	13	Greece	100.0%
Diplodus sargus sargus	White seabream	13	Greece	100.0%
Elasmobranchii	Sharks, rays, skates, etc	45	Egypt	59.1%
			Israel	30.9%
			Cyprus	6.7%
			Lebanon	2.2%
			Malta	1.1%
Lophiidae	Anglerfishes nei	36	Italy	87.7%
			Greece	12.3%
Merlangius merlangus	Whiting	36	Turkey	100.0%
Mollusca	Marine molluscs nei	45	Italy	69.0%
			Greece	16.0%
			Tunisia	9.1%
			Yugoslav SFR	2.5%
			Turkey	2.2%
			Croatia	1.2%
			Lebanon	0.1%
			YugoslaviaFR	0.0%
Mugilidae	Mullets nei	45	Italy	43.5%
			Turkey	33.6%
			Tunisia	16.8%
			Egypt	3.4%
			Israel	2.4%
			Lebanon	0.3%
			Malta	0.0%
Mustelus spp	Smoothhounds	45	Italy	76.1%
			Tunisia	12.1%
			Turkey	8.5%
			Greece	3.0%
			Syria	0.4%
Natantia	Natantian decapods nei	45	Italy	55.1%
			Egypt	23.8%
			Turkey	13.2%
			Greece	7.3%
			Israel	0.5%
			Malta	0.1%
			Cyprus	0.0%
Nephrops norvegicus	Norway lobster	45	Italy	72.2%
			Greece	17.6%
			Yugoslav SFR	8.8%
			Croatia	1.3%
			YugoslaviaFR	0.0%
Oblada melanura	Saddled seabream	28	Greece	57.9%
			Turkey	20.9%
			Yugoslav SFR	17.1%
			Croatia	2.5%
			Tunisia	1.1%
			Cyprus	0.5%
			YugoslaviaFR	0.0%

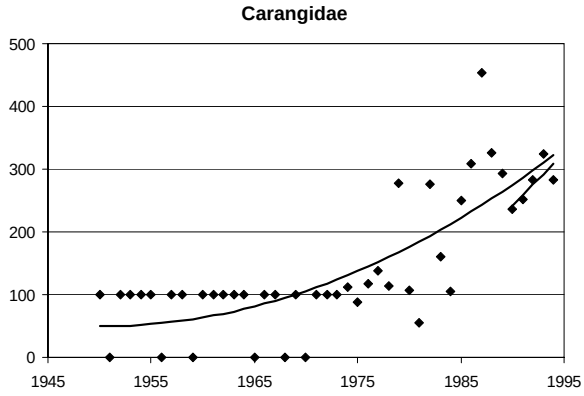
			Malta	0.0%
Octopus vulgaris	Common octopus	45	Italy	63.0%
			Tunisia	29.0%
			Greece	4.4%
			Turkey	2.2%
			Yugoslav SFR	1.3%
			Croatia	0.2%
			YugoslaviaFR	0.0%
Ostrea edulis	European flat oyster	43	Italy	46.1%
			Greece	30.8%
			Turkey	16.2%
			Yugoslav SFR	6.6%
			Tunisia	0.2%
			Croatia	0.1%
Pagellus erythrinus	Common pandora	45	Tunisia	94.7%
			Israel	2.6%
			Cyprus	2.0%
			Malta	0.7%
Pagrus pagrus	Red porgy	45	Turkey	44.4%
			Egypt	40.4%
			Greece	8.6%
			Tunisia	5.3%
			Cyprus	1.2%
			Malta	0.1%
Penaeus kerathurus	Caramote prawn	40	Tunisia	93.0%
			Greece	7.0%
Pomatomus saltatrix	Bluefish	37	Turkey	84.9%
			Tunisia	8.2%
			Greece	3.8%
			Egypt	3.1%
			Israel	0.0%
Rajiformes	Skates and rays, nei	45	Italy	70.1%
			Tunisia	10.7%
			Turkey	7.4%
			Yugoslav SFR	7.2%
			Malta	2.2%
			Albania	1.7%
			Croatia	0.6%
			YugoslaviaFR	0.0%
Sardinella spp	Sardinellas nei	45	Egypt	32.9%
			Tunisia	23.0%
			Libya	17.3%
			Yugoslav SFR	17.1%
			Israel	8.9%
			Syria	0.7%
			Croatia	0.2%
			YugoslaviaFR	0.0%
Scombroidei	Tuna-like fishes nei	45	Tunisia	47.3%
			Lebanon	39.7%
			Greece	11.7%
			Malta	1.3%
			Italy	0.0%
Seriola dumerili	Greater amberjack	27	Israel	44.5%
			Greece	24.0%
			Syria	13.5%
			Yugoslav SFR	8.2%
			Tunisia	6.8%
			Croatia	1.9%
			Malta	0.6%
			YugoslaviaFR	0.5%
Serranidae	Groupers, seabasses nei	30	Tunisia	40.9%
			Egypt	26.3%
			Greece	18.7%
			Turkey	9.1%
			Lebanon	3.1%
			Cyprus	1.7%
			Malta	0.1%
Sphyraena spp	Barracudas	36	Turkey	81.3%
			Israel	8.7%
			Egypt	5.6%
			Tunisia	2.0%
			Syria	1.2%
			Lebanon	1.2%

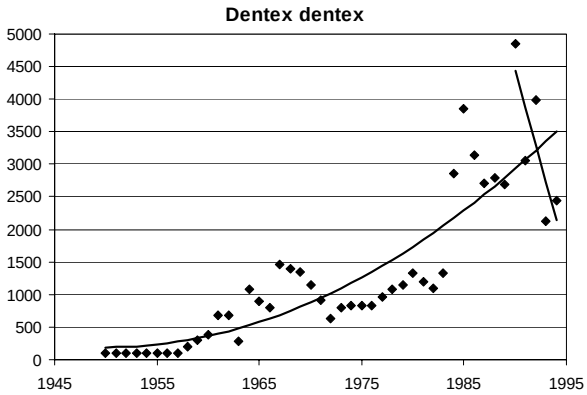
Todarodes sagittatus sagittat.	European flying squid	33	Italy	100.0%
Trachurus trachurus	Atlantic horse mackerel	45	Turkey	81.0%
			Greece	13.5%
			Israel	5.0%
			Syria	0.5%
Xiphias gladius	Swordfish	45	Italy	76.0%
			Greece	13.9%
			Turkey	4.7%
			Malta	3.0%
			Cyprus	1.8%
			Tunisia	0.6%
Zeus faber	John dory	21	Greece	60.9%
			Turkey	34.7%
			Tunisia	4.3%
			Malta	0.1%

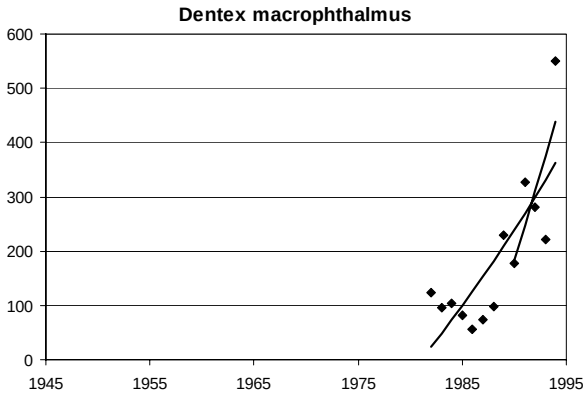




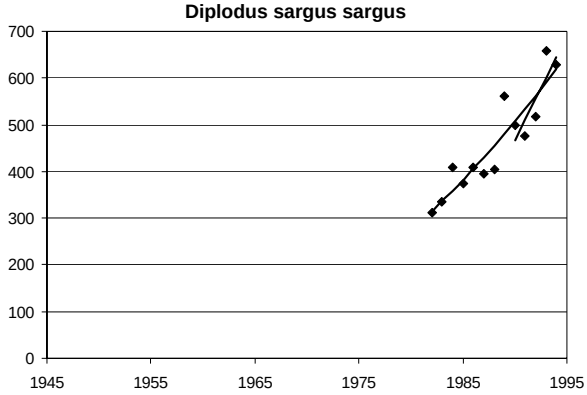




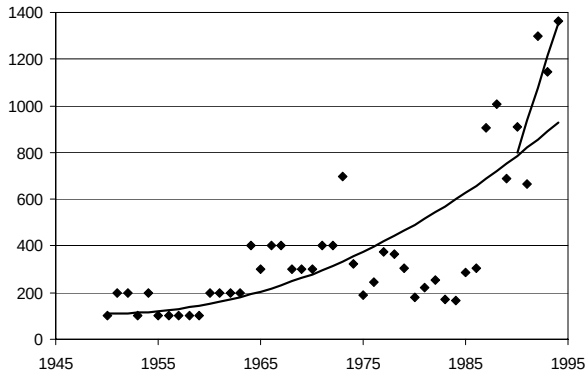




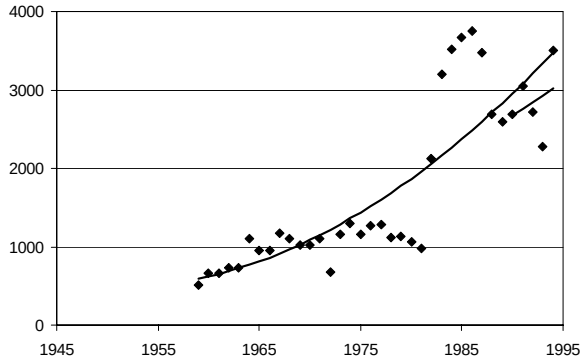
Diplodus sargus sargus



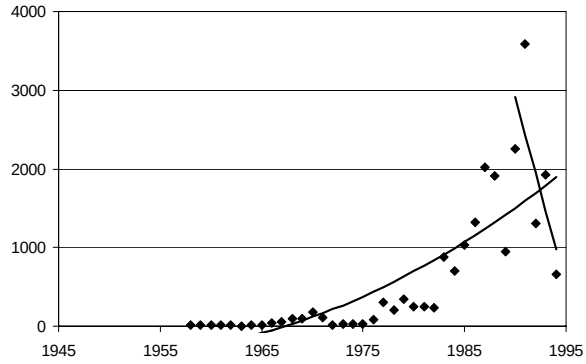
Elasmobranchii



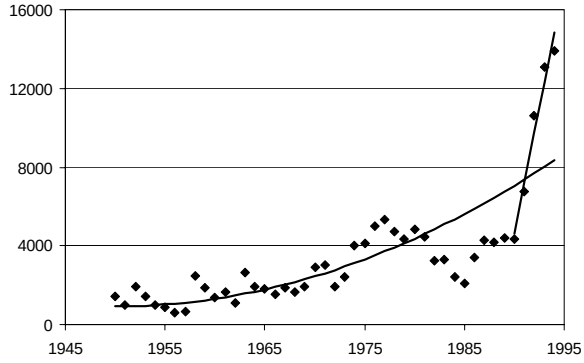
Lophiidae



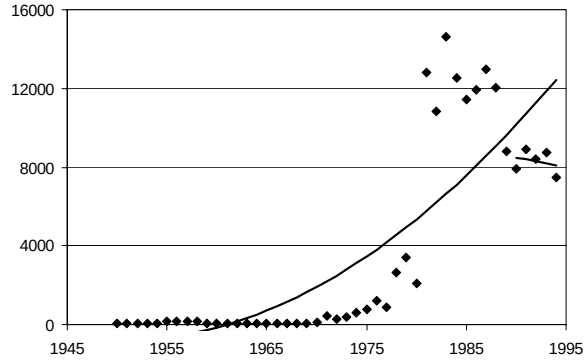
Merlangius merlangus



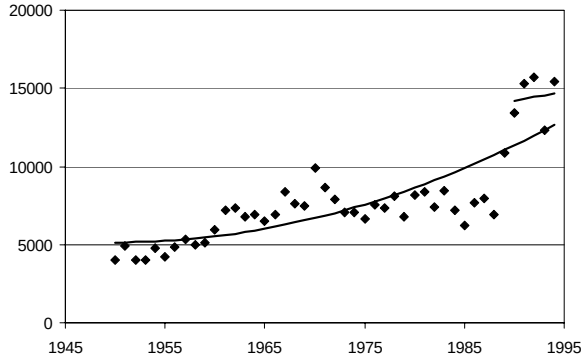
Micromesistius poutassou



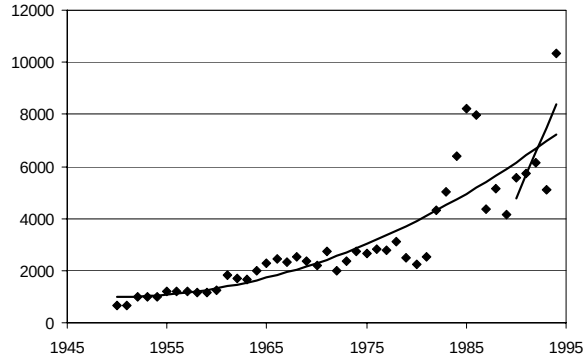
Mollusca



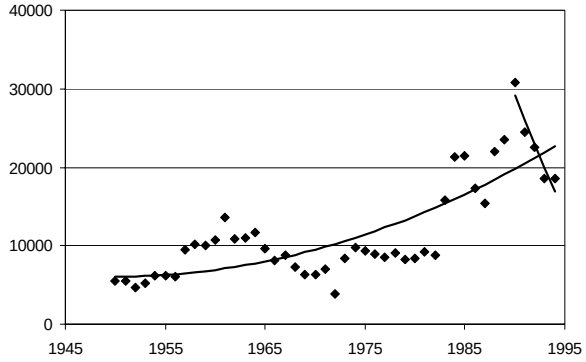
Mugilidae



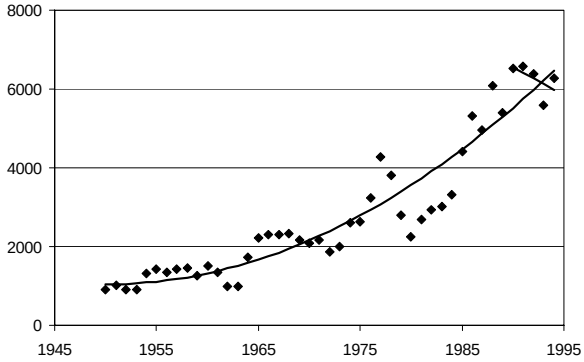
Mustelus spp



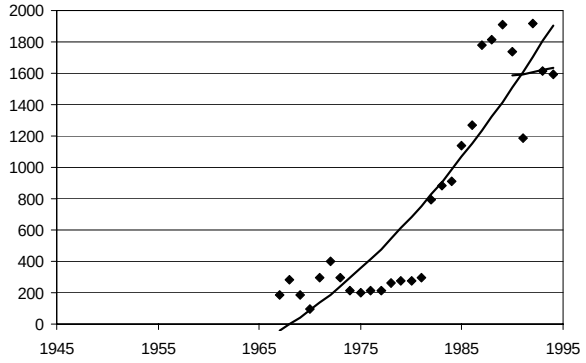
Natantia



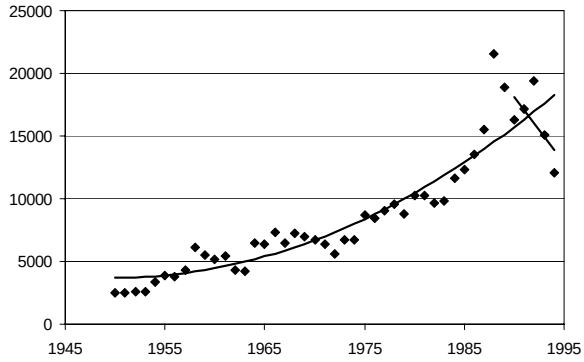
Nephrops norvegicus



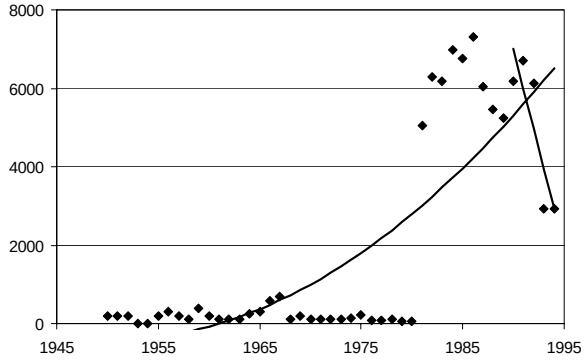
Oblada melanura



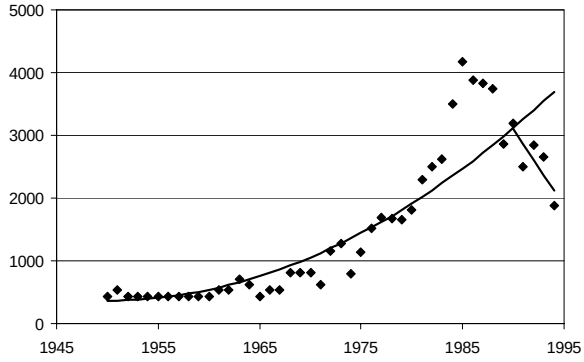
Octopus vulgaris



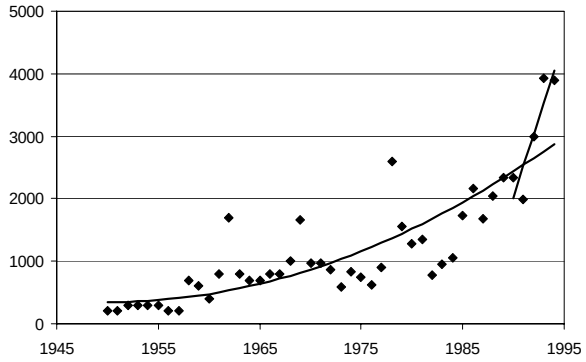
Ostrea edulis



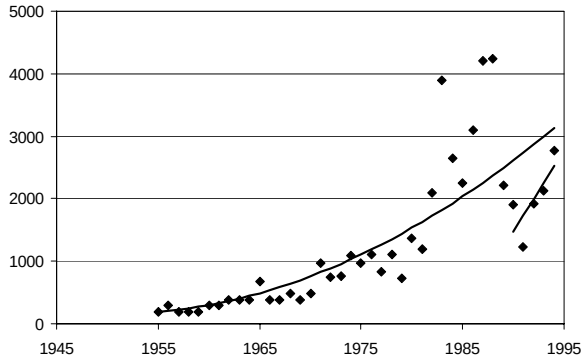
Pagellus erythrinus



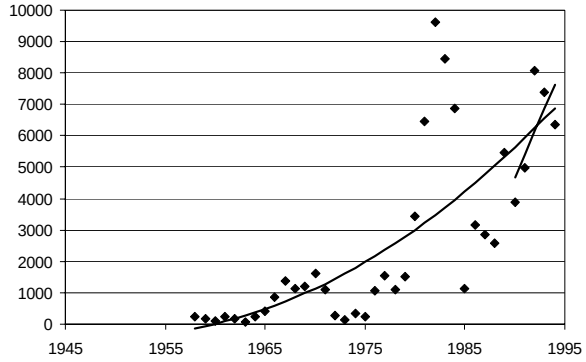
Pagrus pagrus



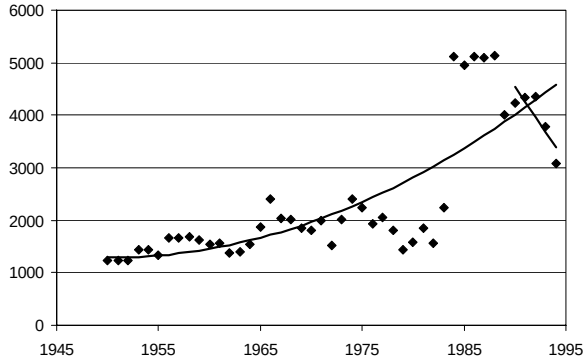
Penaeus kerathurus



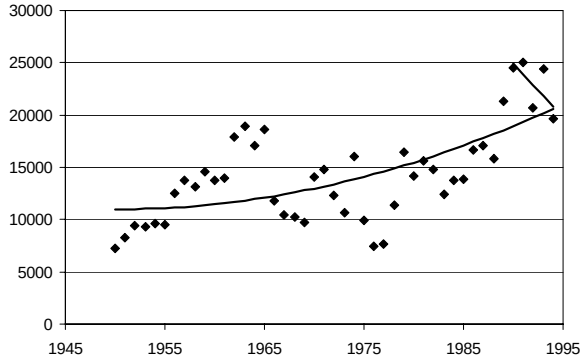
Pomatomus saltatrix



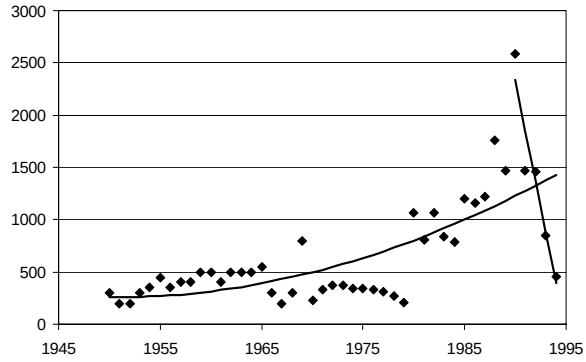
Rajiformes



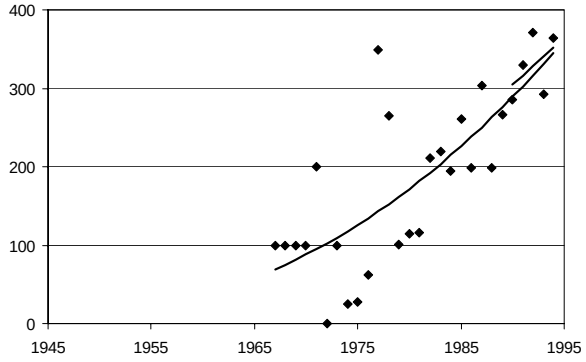
Sardinella spp



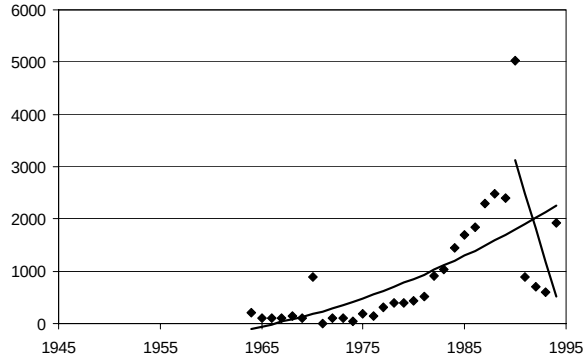
Scombroidei



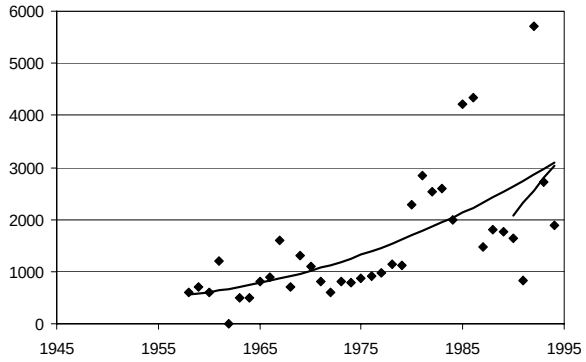
Seriola dumerili



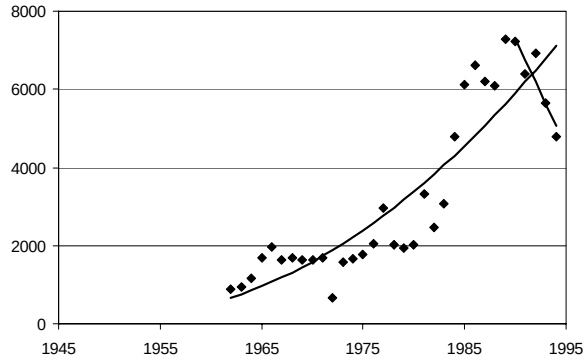
Serranidae

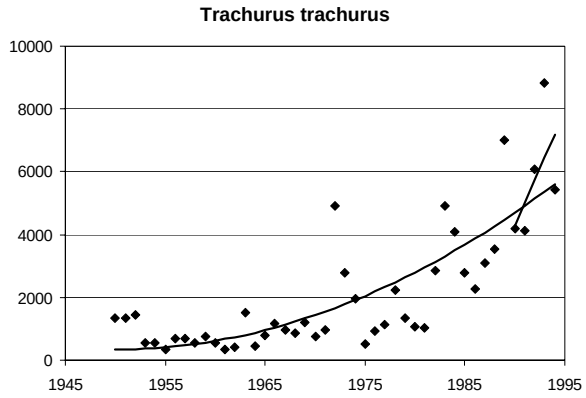


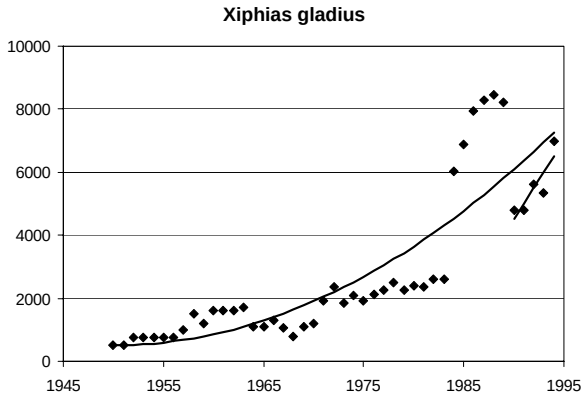
Sphyraena spp

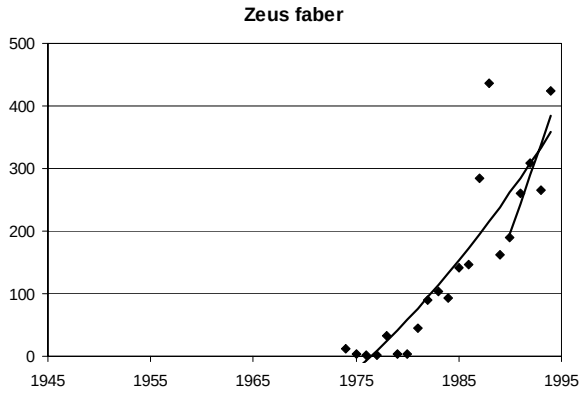


Todarodes sagittatus sagittat.







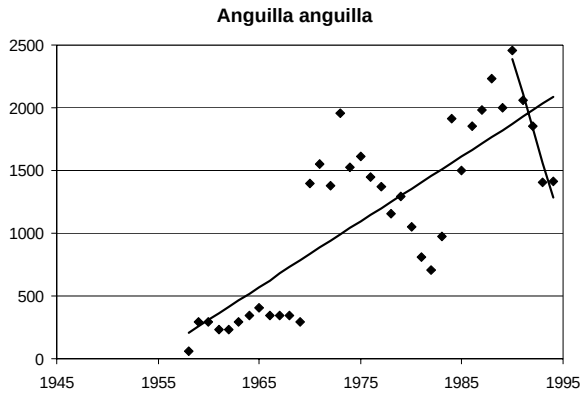


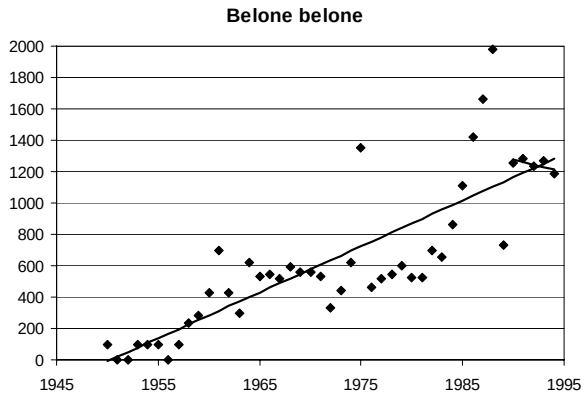
East Mediterranean - Table 3 = Rising: linear

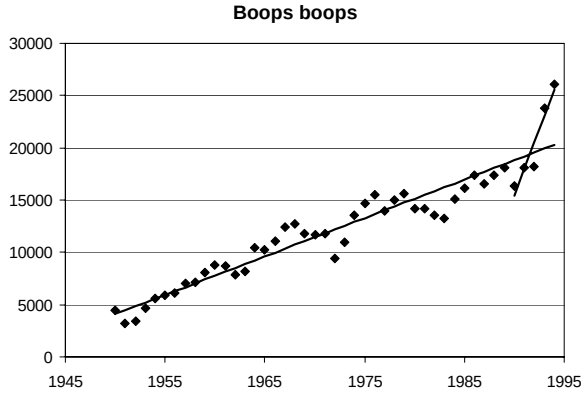
Scientific name	English name	N. Positive Recs.	Country	Catch
NO RECENT TREND				
Belone belone	Garfish	42	Italy	43.3%
			Turkey	20.1%
			Greece	16.0%
			Tunisia	15.0%
			Yugoslav SFR	4.6%
			Croatia	1.1%
			Cyprus	0.0%
			YugoslaviaFR	0.0%
Boops boops	Bogue	45	Greece	41.2%
			Italy	36.0%
			Turkey	6.0%
			Egypt	5.6%
			Yugoslav SFR	5.5%
			Tunisia	1.6%
			Malta	1.4%
			Albania	1.0%
			Cyprus	0.9%
			Israel	0.6%
			Croatia	0.3%
			YugoslaviaFR	0.0%
Coryphaena hippurus	Common dolphinfish	45	Malta	81.1%
			Tunisia	19.0%
Diplodus spp	Sargo breams, nei	45	Tunisia	44.0%
			Turkey	33.0%
			Italy	23.0%
			Malta	0.0%
Eledone spp	Horned and musky octopuses	33	Italy	100.0%
Lichia amia	Leerfish	31	Italy	51.9%
			Turkey	37.8%
			Tunisia	10.4%

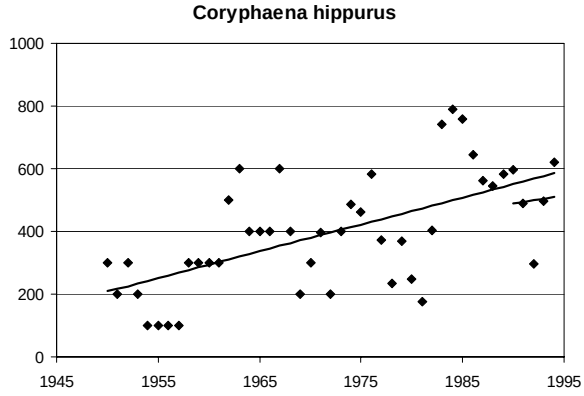
Loligo spp	Common squids	45	Italy	74.9%
			Turkey	8.9%
			Greece	8.4%
			Yugoslav SFR	4.8%
			Tunisia	2.5%
			Croatia	0.5%
			Malta	0.0%
			YugoslaviaFR	0.0%
Pagellus acarne	Axillary seabream	21	Cyprus	100.0%
Pleuronectiformes	Flatfishes nei	37	Italy	52.1%
			Turkey	36.2%
			Tunisia	6.0%
			Yugoslav SFR	4.4%
			Croatia	1.1%
			Lebanon	0.1%
			YugoslaviaFR	0.1%
Sardina pilchardus	European pilchard(=Sardine)	45	Italy	41.8%
			Yugoslav SFR	21.8%
			Greece	15.9%
			Turkey	9.9%
			Tunisia	8.6%
			Croatia	1.1%
			Albania	0.9%
			YugoslaviaFR	0.0%
			Cyprus	0.0%
Sciaena spp	Drums	32	Italy	55.2%
			Tunisia	31.0%
			Turkey	13.5%
			Cyprus	0.3%
Scorpaenidae	Scorpionfishes, nei	44	Italy	57.3%
			Greece	23.5%
			Turkey	7.3%
			Tunisia	5.9%
			Yugoslav SFR	5.1%
			Croatia	0.6%
			Lebanon	0.2%
			Cyprus	0.2%
			Malta	0.1%
			YugoslaviaFR	0.0%
Sepia officinalis	Common cuttlefish	45	Italy	66.4%
			Greece	15.7%
			Tunisia	13.5%
			Turkey	4.4%
Sepiidae, Sepiolidae	Cuttlefishes, bobtail squids	45	Egypt	72.6%
			Yugoslav SFR	17.5%
			Cyprus	8.0%
			Croatia	1.3%
			Malta	0.5%
			YugoslaviaFR	0.0%
Solea vulgaris	Common sole	45	Italy	63.6%
			Greece	24.9%
			Egypt	5.8%
			Tunisia	4.2%
			Israel	1.6%
			Malta	0.0%
Sparidae	Porgies, seabreams, nei	36	Tunisia	48.0%
			Italy	30.7%
			Turkey	7.1%
			Israel	6.5%
			Cyprus	2.7%
			Egypt	2.5%
			Lebanon	1.5%
			Albania	0.9%
			Malta	0.2%
Spicara spp	Picarels	45	Greece	66.1%
			Italy	16.2%
			Turkey	7.1%
			Yugoslav SFR	5.7%
			Cyprus	2.8%
			Albania	1.1%
			Tunisia	0.6%
			Croatia	0.3%
			Malta	0.1%
			Lebanon	0.0%
			YugoslaviaFR	0.0%

Thunnus thynnus	Northern bluefin tuna	45	Italy	49.7%
			Turkey	14.4%
			Yugoslav SFR	11.5%
			Libya	10.0%
			Greece	8.1%
			Tunisia	4.1%
			Malta	1.6%
			Croatia	0.5%
Trachurus mediterraneus	Mediterranean horse mackerel	45	Greece	58.3%
			Turkey	31.1%
			Yugoslav SFR	8.8%
			Malta	1.3%
			Croatia	0.5%
			YugoslaviaFR	0.0%
Trachurus spp	Jack and horse mackerels nei	45	Italy	78.1%
			Tunisia	20.7%
			Egypt	1.3%
Venus(=Chamelea) gallina	Striped venus	45	Italy	92.6%
			Turkey	7.2%
			Albania	0.2%
RECENTLY DECLINING				
Anguilla anguilla	European eel	37	Italy	87.7%
			Tunisia	9.6%
			Yugoslav SFR	2.1%
			Greece	0.6%
			Croatia	0.0%
			YugoslaviaFR	0.0%
			Malta	0.0%
Euthynnus alletteratus	Little tunny(=Atl.black skipj)	45	Tunisia	51.5%
			Israel	38.5%
			Syria	6.5%
			Yugoslav SFR	1.7%
			Cyprus	1.5%
			YugoslaviaFR	0.2%
			Croatia	0.1%
			Malta	0.1%

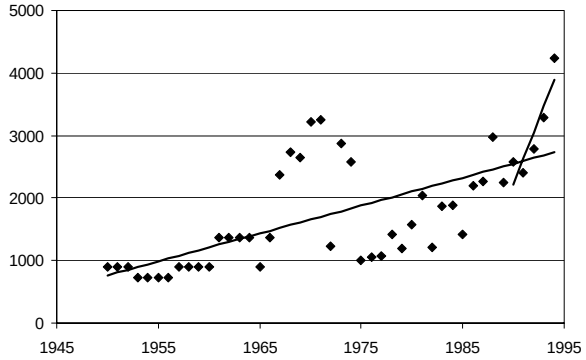




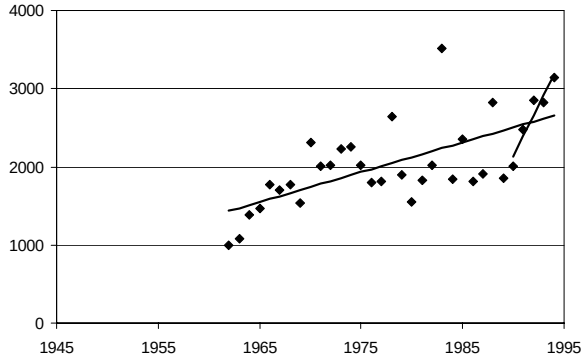




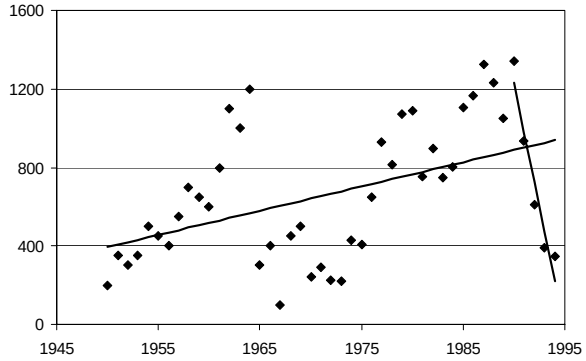
Diplodus spp



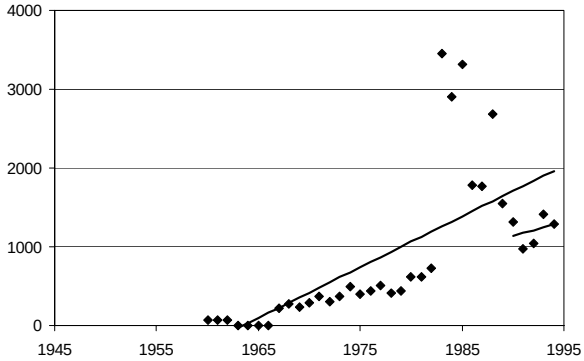
Eledone spp



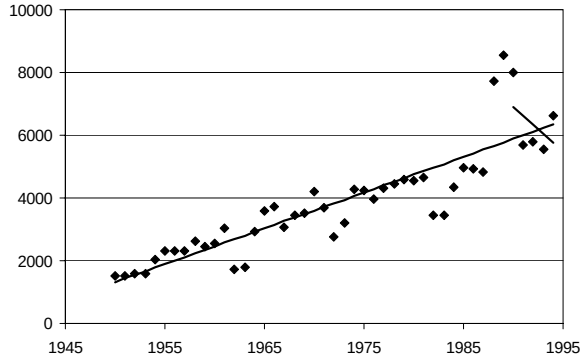
Euthynnus alletteratus



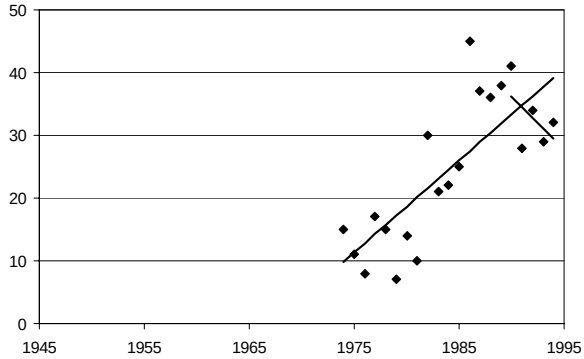
Lichia amia



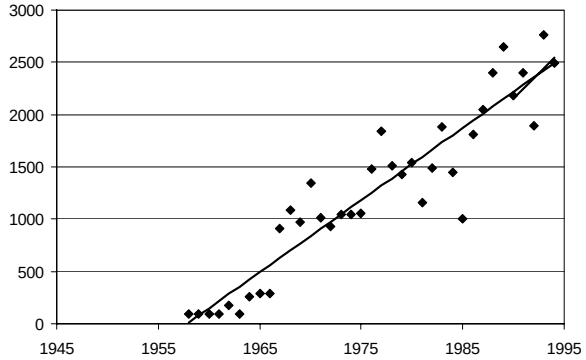
Loligo spp



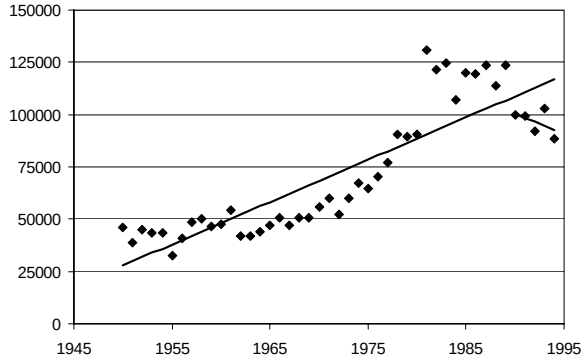
Pagellus acarne



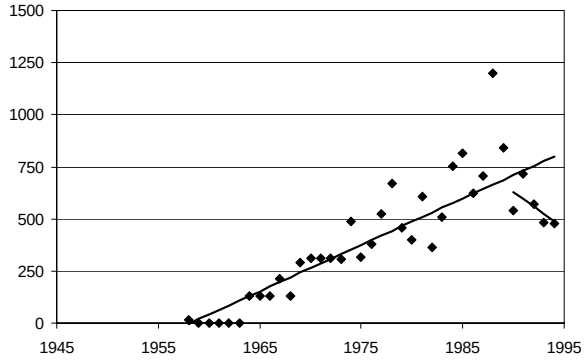
Pleuronectiformes



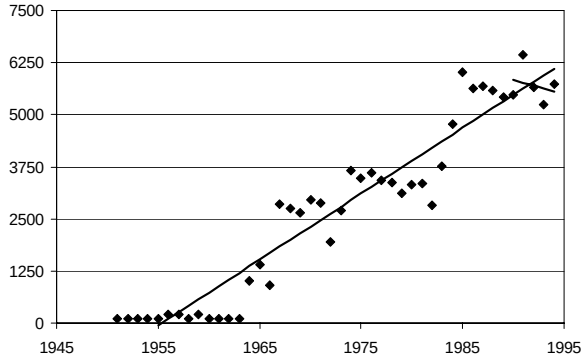
Sardina pilchardus



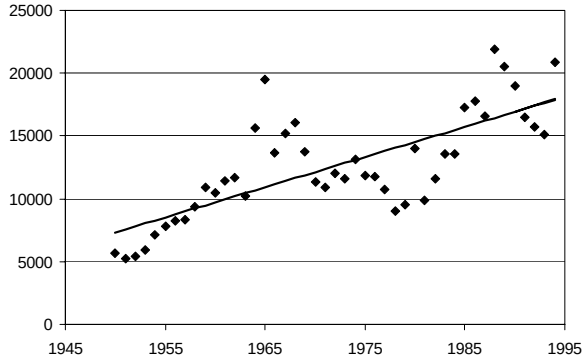
Sciaena spp



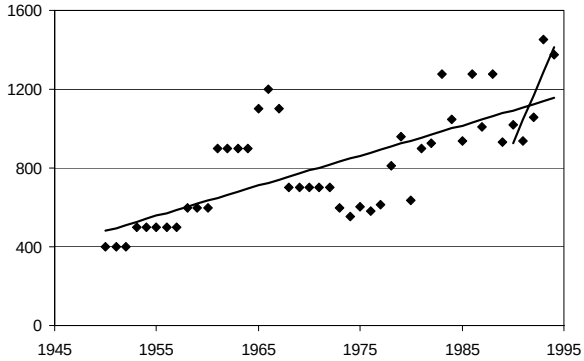
Scorpaenidae



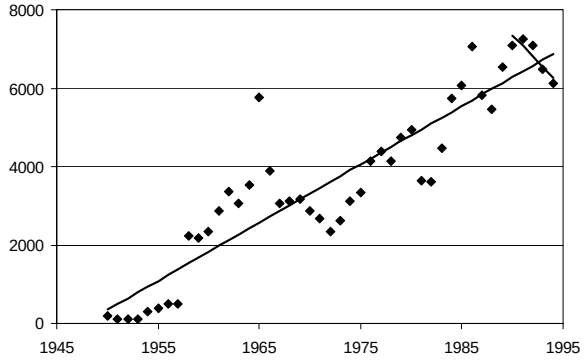
Sepia officinalis



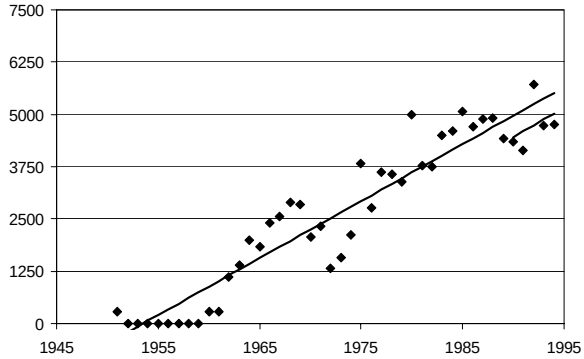
Sepiidae, Sepiolidae



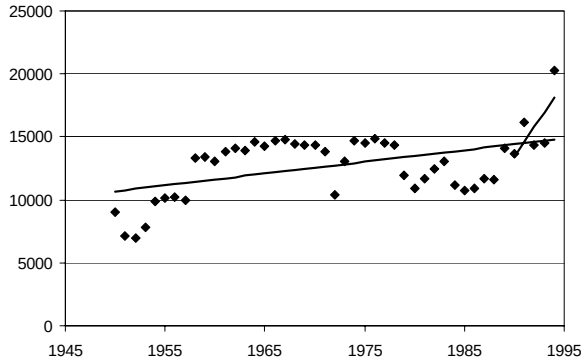
Solea vulgaris



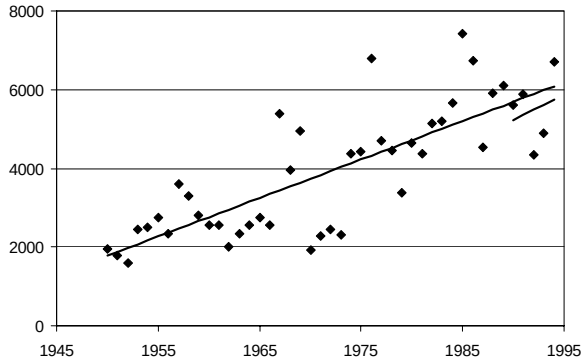
Sparidae

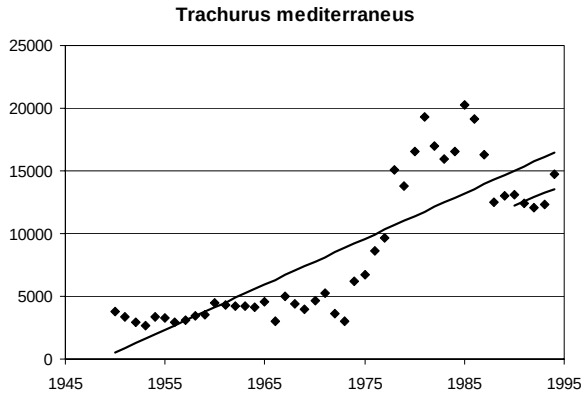


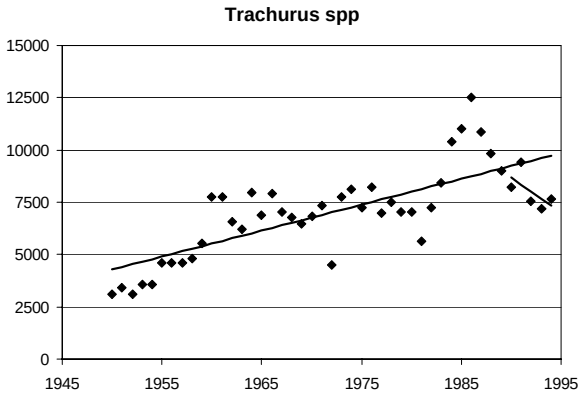
Spicara spp

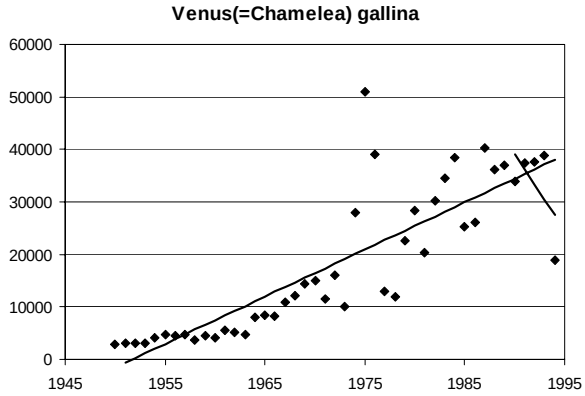


Thunnus thynnus





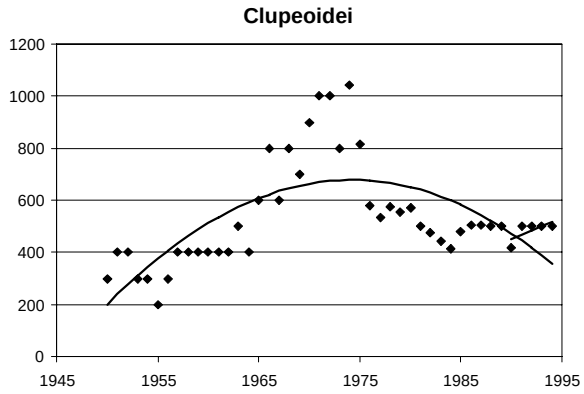


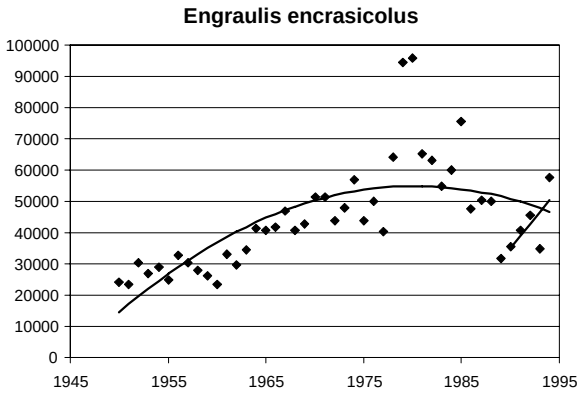


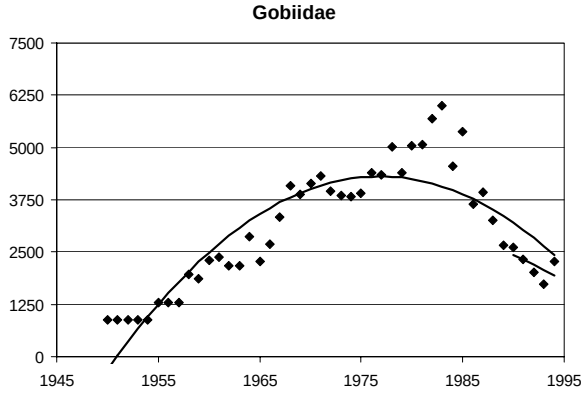
East Mediterranean - Table 4 = Rising: concave downwards **No records.**

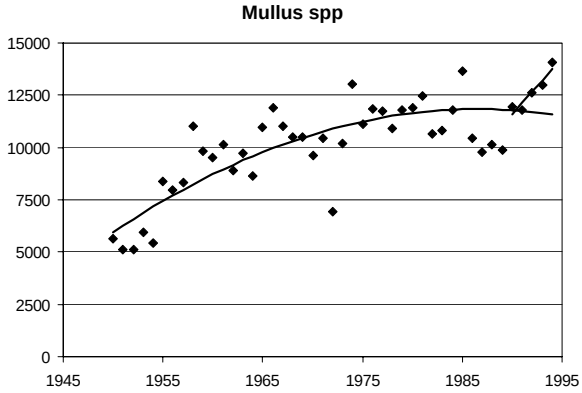
Eastern Mediterranean - Table 5 = Dome shaped

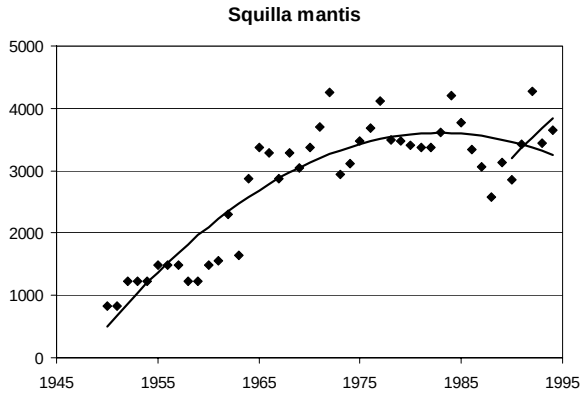
Scientific name	English name	N. Positive Recs.	Country	Catch
NO RECENT TREND				
Clupeoidei	Clupeoids nei	45	Lebanon	99.7%
			Malta	0.3%
Engraulis encrasicolus	European anchovy	45	Italy	62.3%
			Greece	20.6%
			Turkey	12.5%
			Yugoslav SFR	4.4%
			Tunisia	0.2%
			Croatia	0.1%
Gobiidae	Gobies nei	45	Italy	81.3%
			Turkey	18.7%
			Malta	0.0%
Mullus spp	Surmullets(=Red mullets)	45	Italy	50.2%
			Greece	25.4%
			Tunisia	11.1%
			Egypt	8.7%
			Israel	2.8%
			Cyprus	0.6%
			Albania	0.6%
			Syria	0.4%
			Lebanon	0.2%
			Malta	0.1%
Squilla mantis	Spottail mantis squillid	45	Italy	100.0%







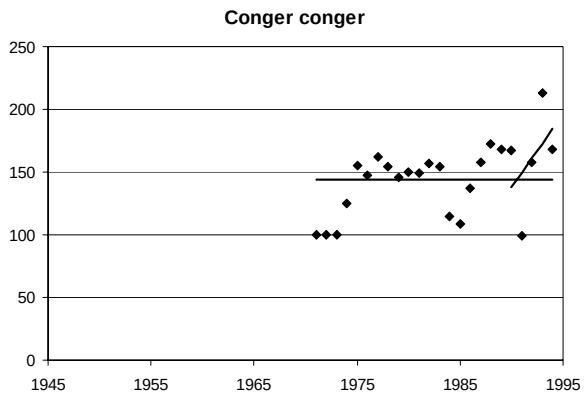


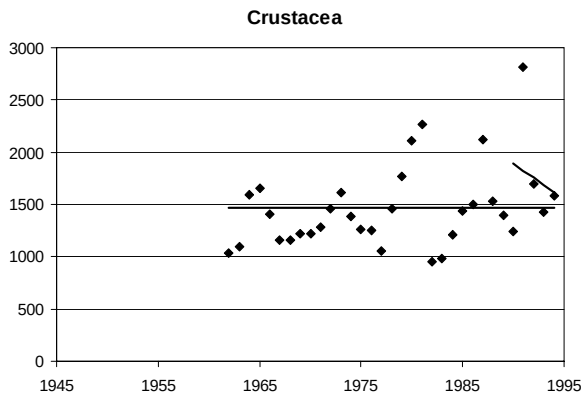


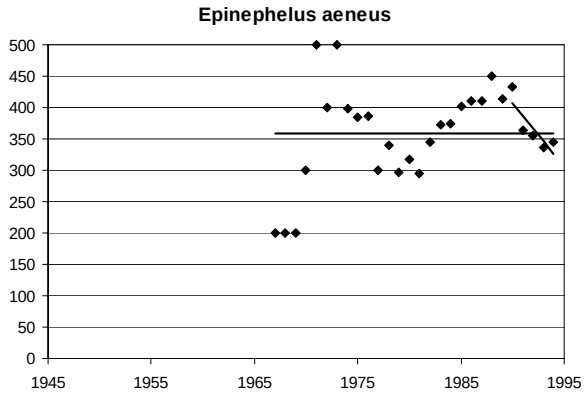
East Mediterranean - Table 6 = Stable fisheries

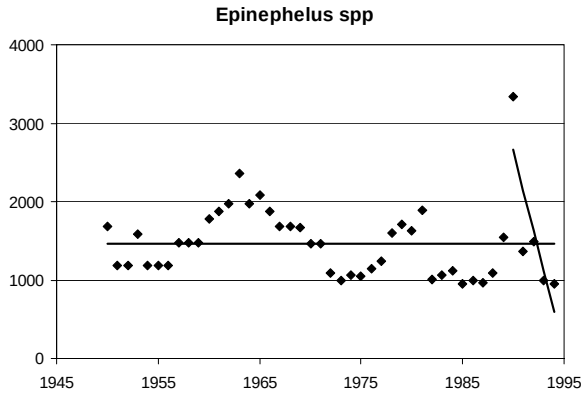
Scientific name	English name	N. Positive Recs.	Country	Catch
NO RECENT TREND				
Conger conger	European conger	24	Yugoslav SFR	79.8%
			Croatia	14.1%
			Malta	4.3%
			Lebanon	1.2%
			YugoslaviaFR	0.4%
			Tunisia	0.3%
Crustacea	Marine crustaceans nei	33	Italy	96.5%
			Syria	3.1%
			Lebanon	0.4%
			Tunisia	0.0%
Epinephelus aeneus	White grouper	28	Israel	100.0%

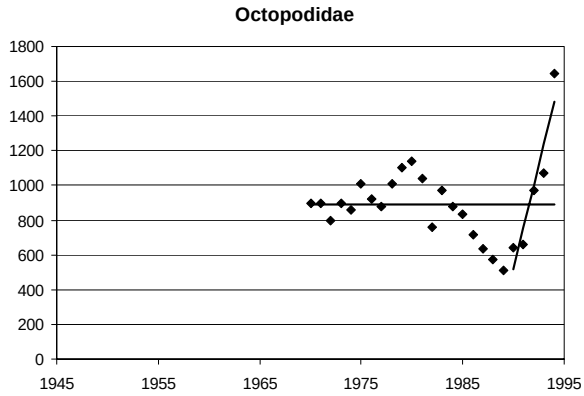
Epinephelus spp	Groupers nei	45	Tunisia	38.7%
			Egypt	31.3%
			Greece	26.9%
			Cyprus	3.2%
Octopodidae	Octopuses	25	Greece	83.5%
			Cyprus	14.6%
			Malta	1.9%
Osteichthyes	Marine fishes nei	45	Italy	50.4%
			Greece	14.0%
			Tunisia	12.4%
			Egypt	8.3%
			Albania	4.0%
			Turkey	2.9%
			Libya	2.4%
			Yugoslav SFR	2.0%
			Israel	1.1%
			Lebanon	1.1%
			Syria	0.7%
			Cyprus	0.3%
			Slovenia	0.3%
			Malta	0.1%
			Croatia	0.1%
			YugoslaviaFR	0.0%
Pagellus spp	Pandoras nei	45	Greece	96.8%
			Syria	3.2%

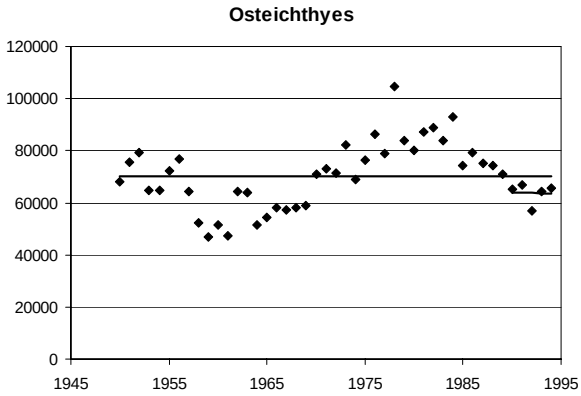


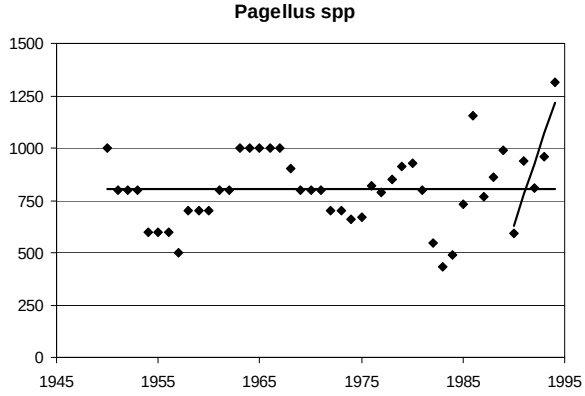






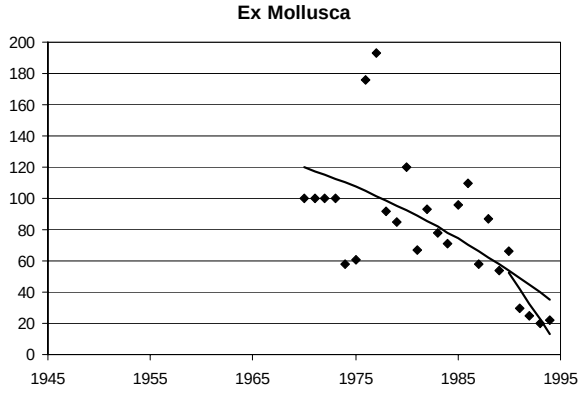






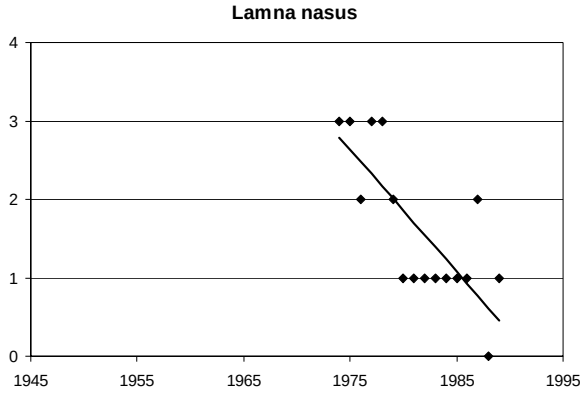
East Mediterranean - Table 7 = Declining: concave downwards

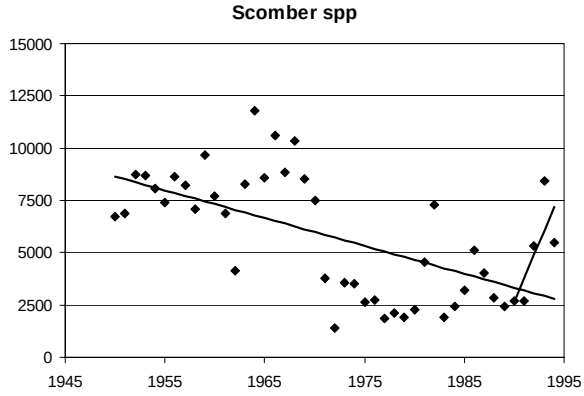
Scientific name	English name	N. Positive Recs.	Country	Catch
NO RECENT TREND				
Ex Mollusca	Marine shells nei	25	Yugoslav SFR Croatia YugoslaviaFR	96.8% 2.5% 0.7%

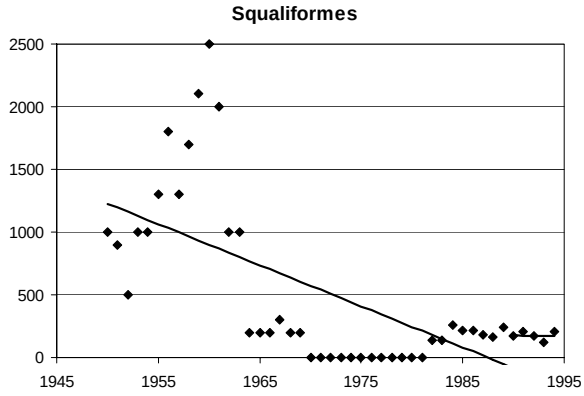


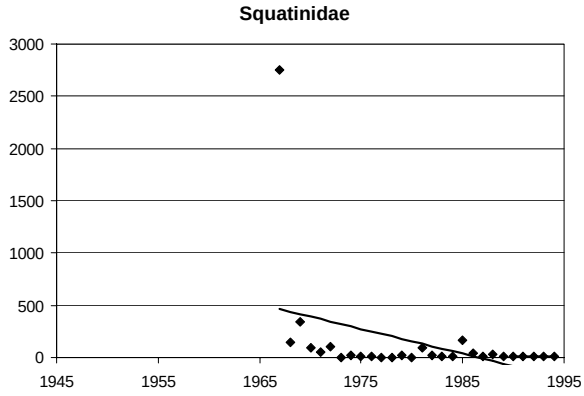
East Mediterranean - Table 8 = Declining: linear

Scientific name	English name	N. Positive Recs.	Country	Catch
NO RECENT TREND				
Lamna nasus	Porbeagle	15	Malta	100.0%
Scomber spp	'Scomber' mackerels nei	45	Italy	80.7%
			Yugoslav SFR	18.0%
			Croatia	1.3%
			YugoslaviaFR	0.0%
Squaliformes	Large sharks nei	33	Greece	100.0%
Squatinidae	Angelsharks, sand devils	27	Turkey	99.7%
			Malta	0.3%









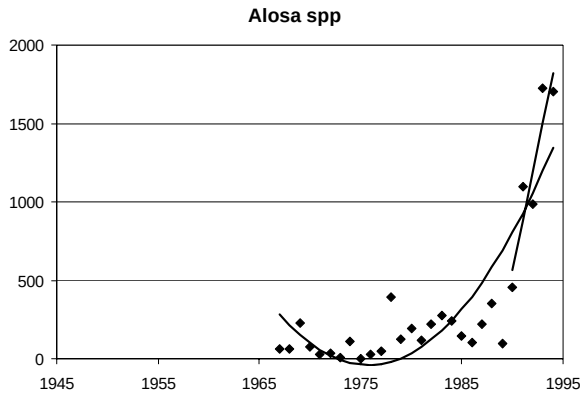
East Mediterranean - Table 9 = Declining: concave upward **No records.**

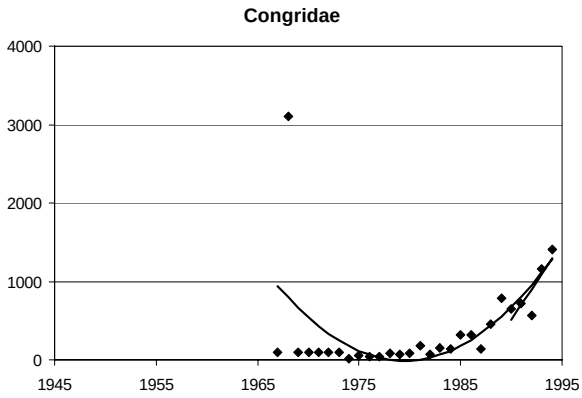
East Mediterranean - Table 10 = Recovering fisheries

Scientific name	English name	N. Positive Recs.	Country	Catch
RECENTLY RISING				
Dicentrarchus labrax	European seabass	33	Greece	56.0%
			Italy	31.6%
			Egypt	6.3%
			Israel	3.4%
			Malta	2.5%
			Cyprus	0.2%
			Slovenia	0.1%

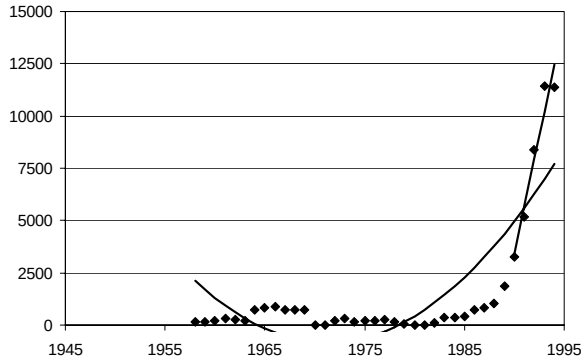
Dicentrarchus spp	Seabasses	38	Turkey	44.8%
			Italy	32.7%
			Tunisia	18.4%
			Yugoslav SFR	2.8%
			Croatia	1.3%
			YugoslaviaFR	0.0%
Merluccius merluccius	European hake	45	Italy	78.6%
			Greece	12.2%
			Yugoslav SFR	3.6%
			Israel	1.8%
			Tunisia	1.5%
			Turkey	0.7%
			Croatia	0.7%
			Albania	0.5%
			Syria	0.3%
			Egypt	0.1%
			Malta	0.1%
			Cyprus	0.0%
			YugoslaviaFR	0.0%
Umbrina cirrosa	Shi drum	30	Turkey	68.2%
			Greece	27.2%
			Tunisia	4.7%
NO RECENT TREND				
Alosa spp	Shads nei	27	Turkey	71.7%
			Greece	25.4%
			Tunisia	2.9%
			Malta	0.0%
Congridae	Conger eels nei	28	Turkey	100.0%
Epinephelus guaza(=marginatus)	Dusky grouper	31	Italy	79.2%
			Turkey	16.8%
			Greece	3.8%
			Malta	0.1%
Loliginidae, Ommastrephidae	Squids nei	25	Greece	100.0%
Mugil cephalus	Flathead grey mullet	45	Greece	45.0%
			Egypt	22.3%
			Tunisia	14.9%
			Italy	7.8%
			Yugoslav SFR	6.1%
			Israel	3.7%
			Croatia	0.2%
			Cyprus	0.0%
			YugoslaviaFR	0.0%
Mullus barbatus	Striped mullet	37	Turkey	79.5%
			Tunisia	15.9%
			Cyprus	4.6%
Mullus surmuletus	Red mullet	44	Turkey	38.9%
			Greece	34.5%
			Tunisia	12.7%
			Yugoslav SFR	8.7%
			Cyprus	3.8%
			Croatia	1.5%
			YugoslaviaFR	0.0%
Mytilus galloprovincialis	Mediterranean mussel	45	Italy	92.2%
			Greece	4.2%
			Turkey	1.9%
			Albania	0.9%
			Yugoslav SFR	0.7%
			Croatia	0.0%
			Slovenia	0.0%
			YugoslaviaFR	0.0%
Pecten jacobaeus	Great mediterranean scallop	19	Turkey	100.0%
Perciformes	Demersal percomorphs nei	43	Turkey	84.1%
			Syria	14.8%
			Cyprus	0.8%
			Malta	0.3%
Raja spp	Skates	19	Greece	100.0%
Sarpa salpa	Salema	38	Tunisia	48.0%
			Turkey	26.8%
			Greece	12.5%
			Yugoslav SFR	11.1%
			Croatia	1.2%
			Egypt	0.3%

			Cyprus	0.0%
			YugoslaviaFR	0.0%
Scomber japonicus	Chub mackerel	45	Turkey	52.7%
			Greece	33.1%
			Tunisia	12.4%
			Israel	1.5%
			Malta	0.4%
Scomber scombrus	Atlantic mackerel	44	Turkey	84.9%
			Greece	13.7%
			Syria	1.4%
Sparus aurata	Gilthead seabream	41	Turkey	31.3%
			Greece	21.3%
			Italy	20.8%
			Israel	8.3%
			Egypt	8.2%
			Tunisia	7.1%
			Yugoslav SFR	1.6%
			Malta	0.8%
			Cyprus	0.4%
			Croatia	0.2%
			Slovenia	0.0%
			YugoslaviaFR	0.0%
Sparus(=Pagrus)spp	Pargo breams, nei	41	Greece	97.0%
			Syria	3.0%
Spondyliosoma cantharus	Black seabream	31	Greece	70.5%
			Turkey	21.3%
			Yugoslav SFR	7.4%
			Croatia	0.7%
			YugoslaviaFR	0.0%
Squalidae	Dogfish sharks nei	45	Yugoslav SFR	65.2%
			Tunisia	25.4%
			Croatia	8.6%
			Malta	0.8%
			YugoslaviaFR	0.1%
Synodontidae	Lizardfishes nei	30	Egypt	93.7%
			Turkey	6.3%
Triglidae	Gurnards, searobins nei	28	Turkey	34.0%
			Egypt	31.7%
			Greece	29.6%
			Syria	3.4%
			Tunisia	1.4%

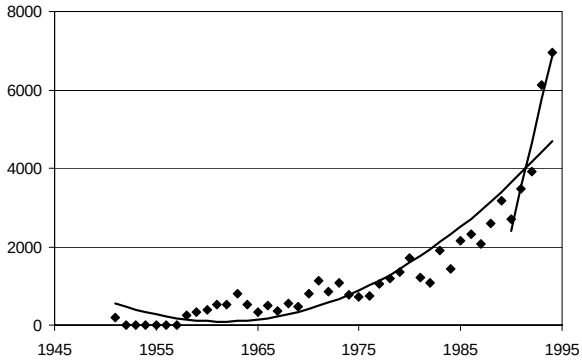




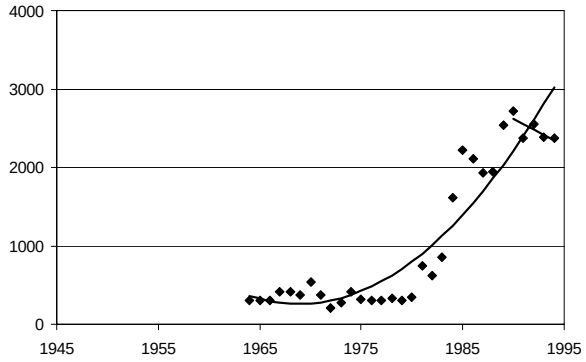
Dicentrarchus labrax



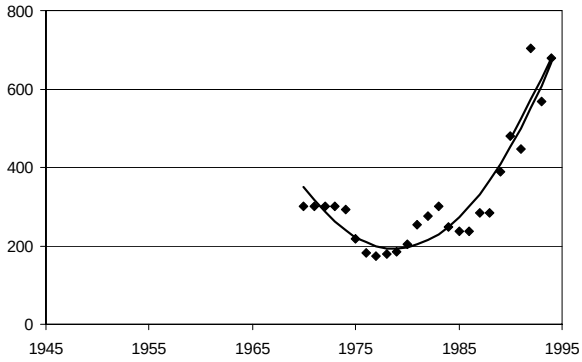
Dicentrarchus spp



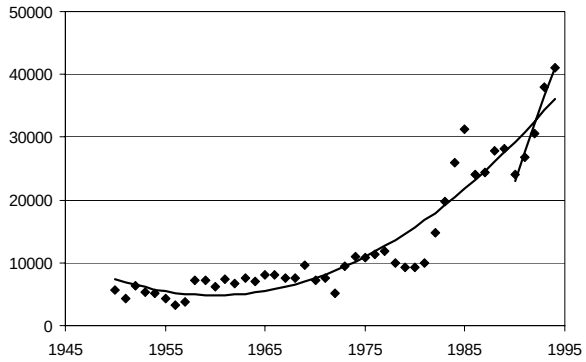
Epinephelus guaza(=marginatus)



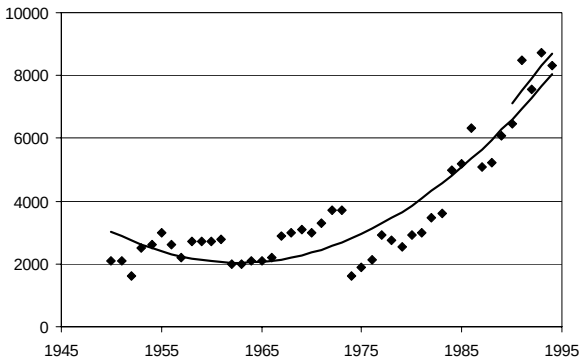
Loliginidae, Ommastrephidae



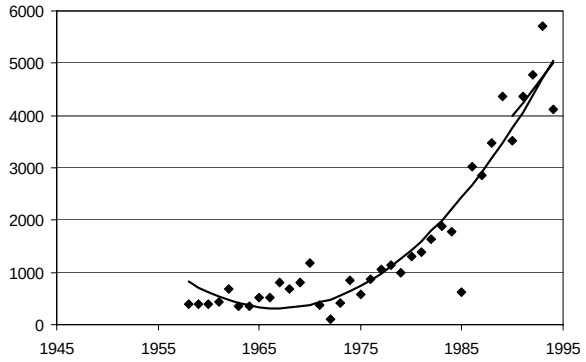
Merluccius merluccius



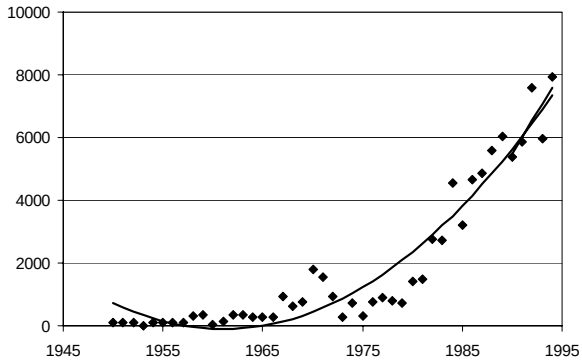
Mugil cephalus



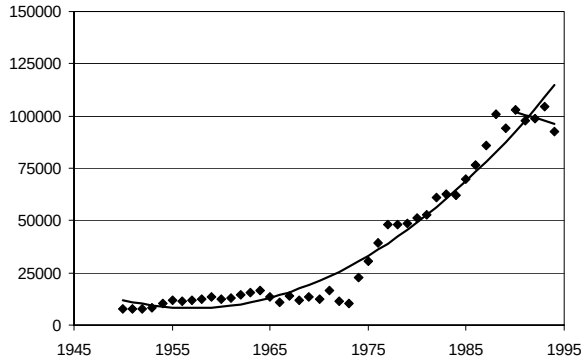
Mullus barbatus



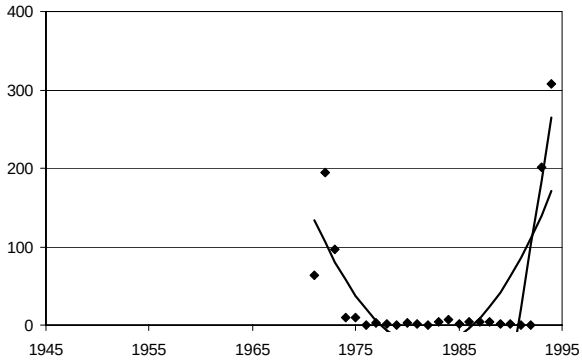
Mullus surmuletus



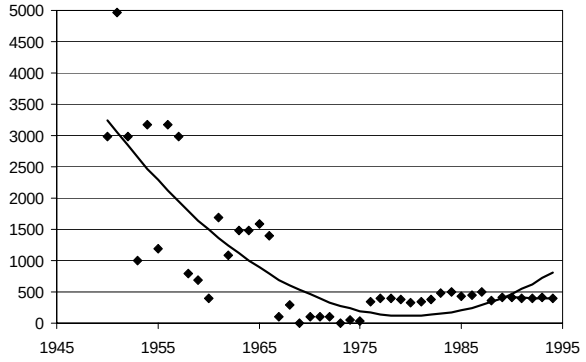
Mytilus galloprovincialis



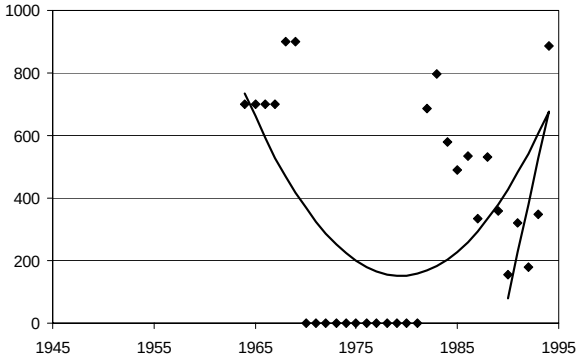
Pecten jacobaeus



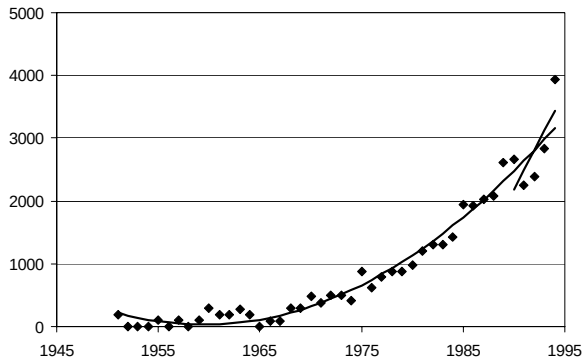
Perciformes



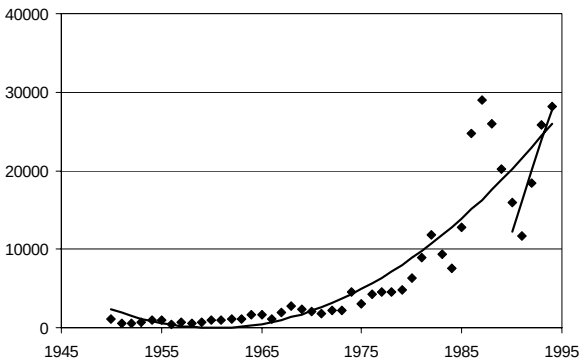
Raja spp



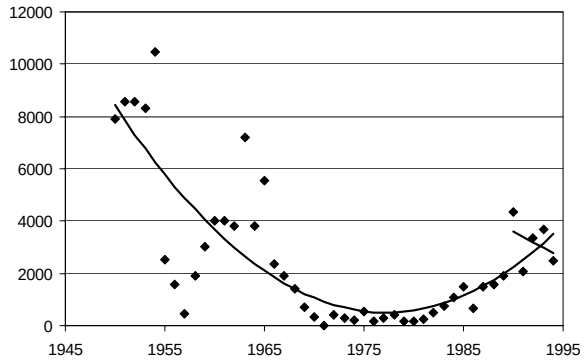
Sarpa salpa



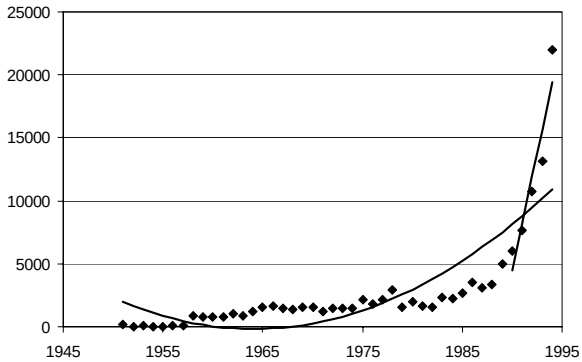
Scomber japonicus

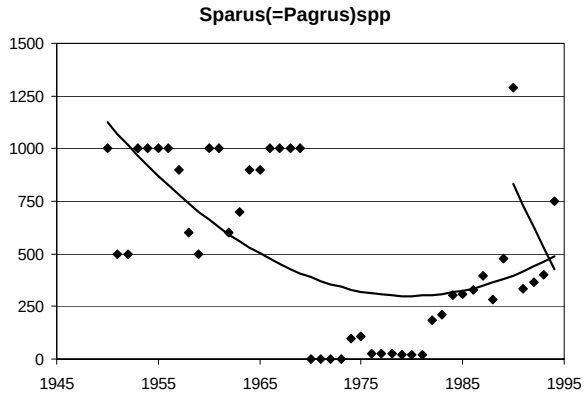


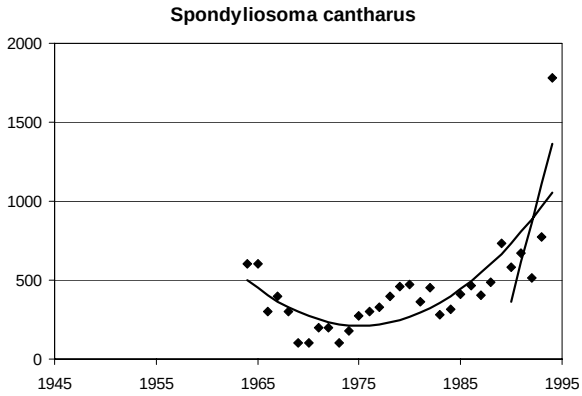
Scomber scombrus

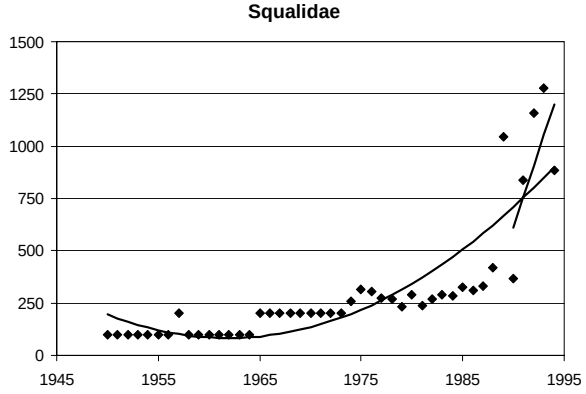


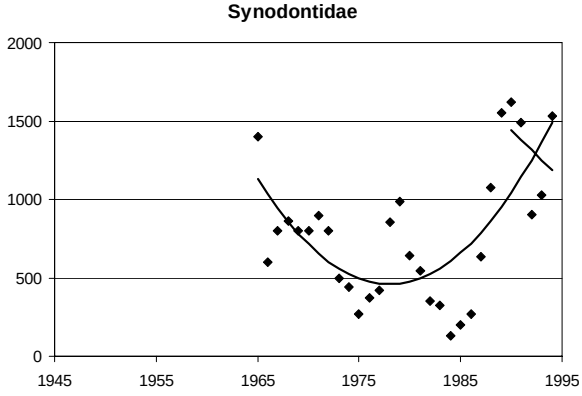
Sparus aurata

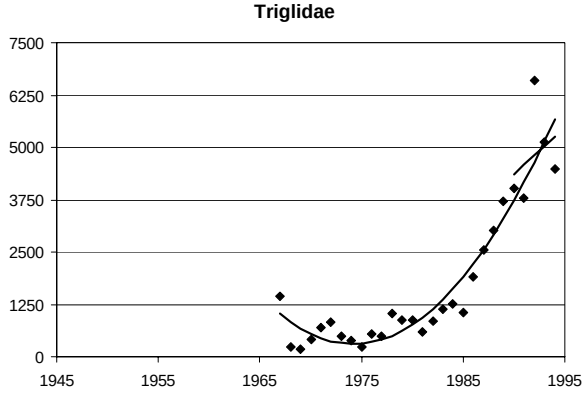


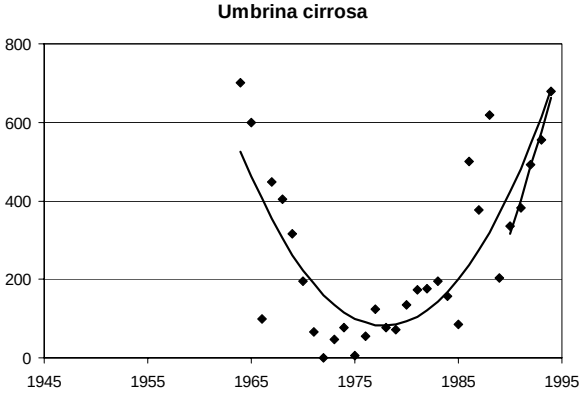












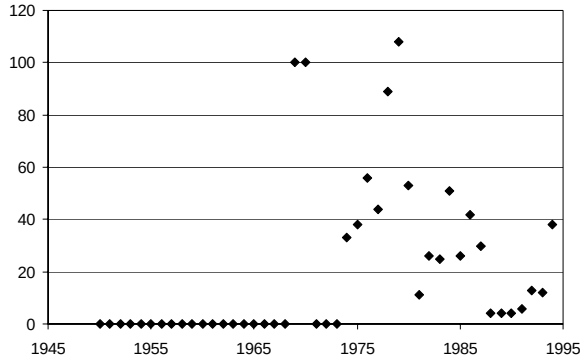
East Mediterranean - Table 11 = Collapsed fisheries **No records.**

East Mediterranean - Table 12 = Intermittent fisheries

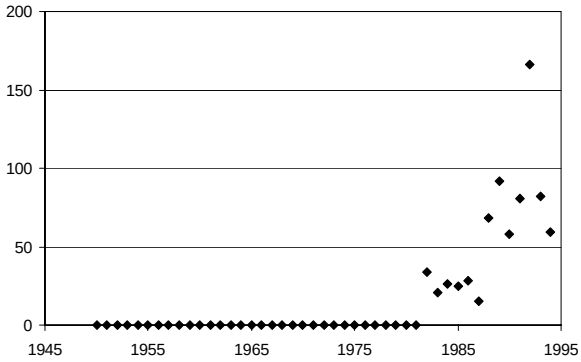
Scientific name	English name	N. Positive Recs.	Country	Catch
Caranx spp	Jacks, crevalles, nei	23	Egypt	62.5%
			Cyprus	37.5%
Carcinus aestuarii	Mediterranean shore crab	13	Greece	100.0%
Corallium rubrum	Sardinia coral	17	Italy	63.7%
			Greece	20.6%
			Croatia	7.6%
			Yugoslav SFR	5.1%
			Albania	2.2%
			Turkey	1.0%

Dentex spp	Dentex nei	21	Cyprus	100.0%
Homarus gammarus	European lobster	37	Turkey	55.5%
			Greece	29.4%
			Yugoslav SFR	13.6%
			Croatia	1.4%
			YugoslaviaFR	0.0%
Maja squinado	Spinous spider crab	36	Yugoslav SFR	96.1%
			Croatia	3.9%
Palinurus spp	Palinurid spiny lobsters nei	45	Italy	94.9%
			Turkey	3.0%
			Tunisia	1.9%
			Cyprus	0.2%
Perciformes	Pelagic percomorphs nei	4	Cyprus	100.0%
Percoidei	Percoids nei	22	Cyprus	93.2%
			Tunisia	6.8%
Phycis blennoides	Greater forkbeard	21	Turkey	63.2%
			Tunisia	36.8%
Polyprion americanus	Wreckfish	23	Malta	100.0%
Psetta maxima maxima	Turbot	35	Turkey	72.6%
			Greece	27.3%
			Tunisia	0.1%
			Malta	0.0%
Reptantia	Marine crabs nei	45	Egypt	62.2%
			Turkey	37.9%
Rhinobatidae	Guitarfishes	13	Greece	100.0%
Sarda sarda	Atlantic bonito	45	Turkey	87.7%
			Greece	8.1%
			Italy	2.7%
			Tunisia	0.9%
			Egypt	0.4%
			Yugoslav SFR	0.2%
			Croatia	0.0%
			Libya	0.0%
			Malta	0.0%
			YugoslaviaFR	0.0%
Saurida undosquamis	Brushtooth lizardfish	28	Israel	100.0%
Scombroidei	Mackerel-like fishes nei	35	Lebanon	100.0%
Spongidae	Sponges nei	24	Tunisia	41.7%
			Turkey	22.2%
			Greece	18.0%
			Libya	7.8%
			Lebanon	4.7%
			Egypt	3.2%
			Yugoslav SFR	1.3%
			Syria	0.9%
			Cyprus	0.2%
			Croatia	0.1%
Sprattus sprattus	European sprat	13	Greece	100.0%
Squalus acanthias	Picked dogfish	22	Malta	100.0%
Testudinata	Marine turtles nei	24	Turkey	59.0%
			Egypt	41.0%
Thunnus alalunga	Albacore	25	Italy	81.6%
			Greece	18.4%
Trigla lyra	Piper gurnard	13	Greece	100.0%

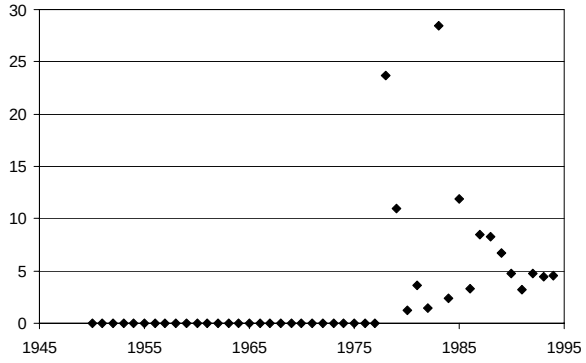
Caranx spp



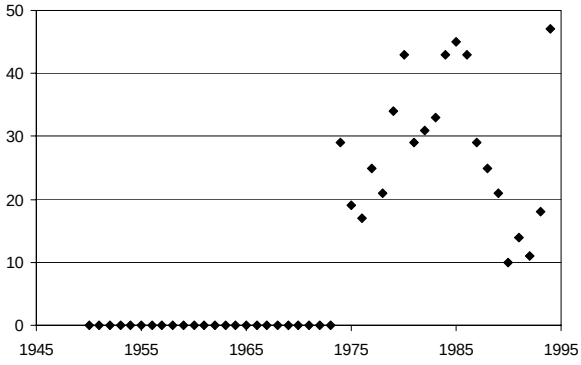
Carcinus aestuarii



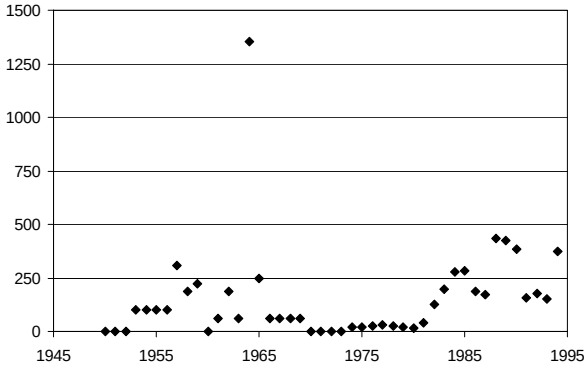
Corallium rubrum



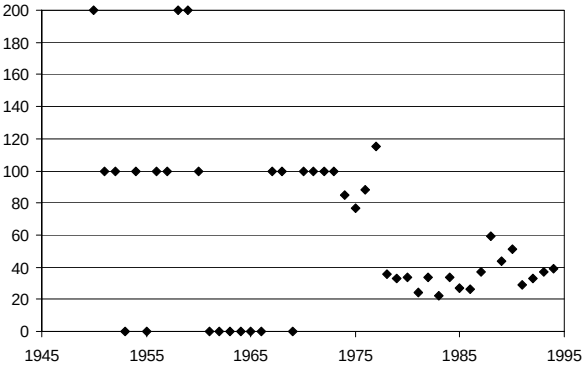
Dentex spp



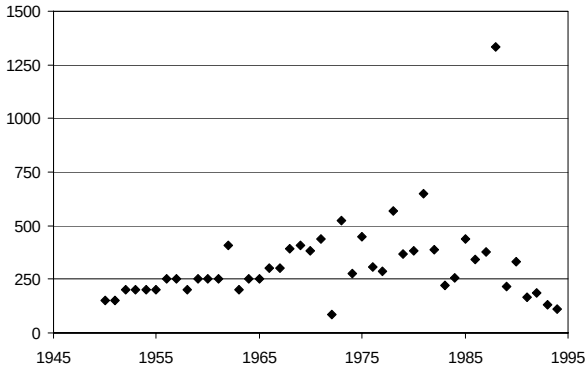
Homarus gammarus



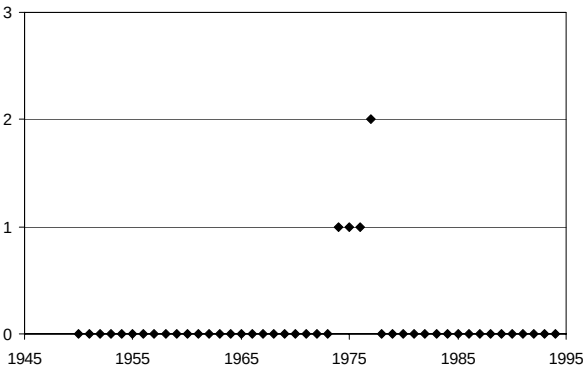
Maja squinado



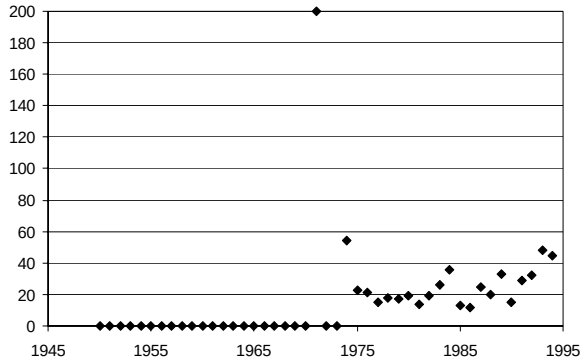
Palinurus spp



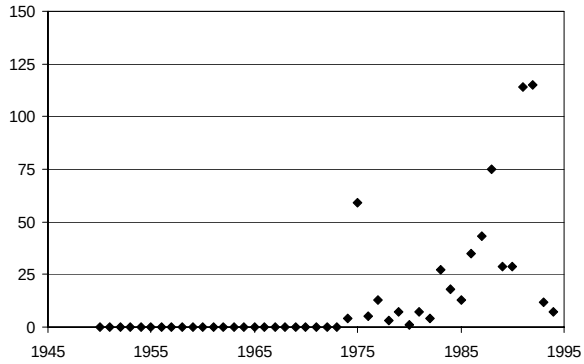
Perciformes



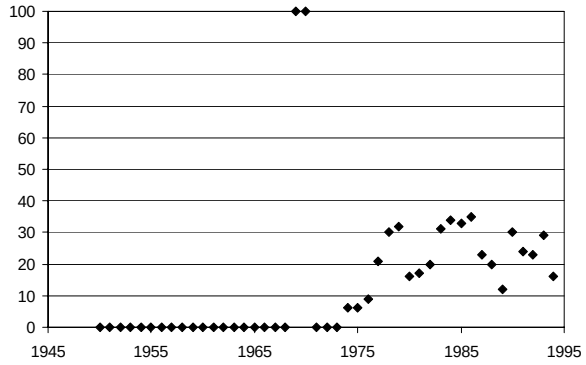
Percoidei



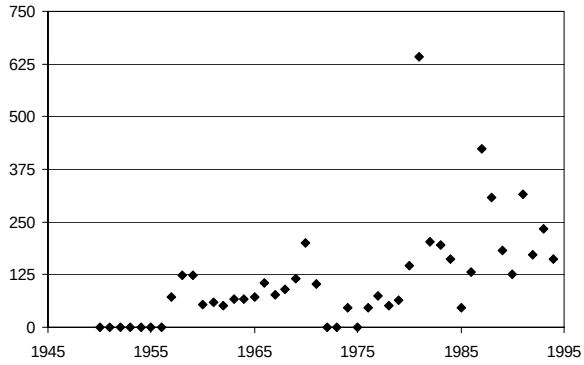
Phycis blennoides



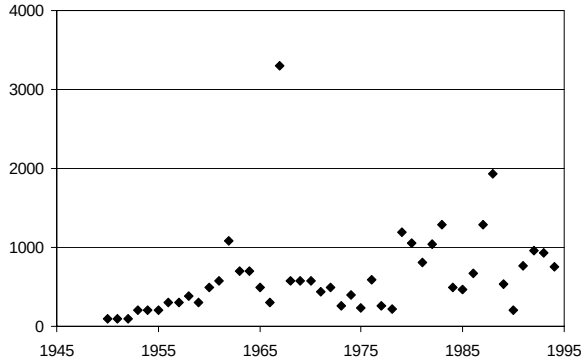
Polyprion americanus



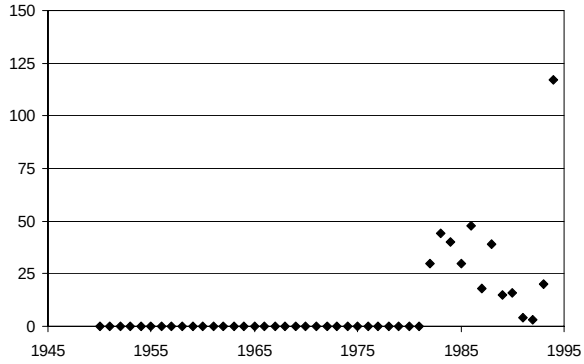
Psetta maxima maxima



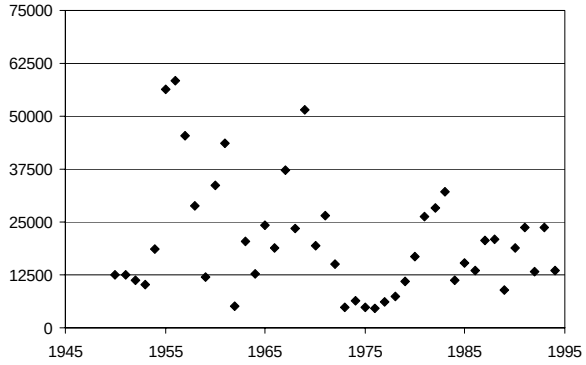
Reptantia



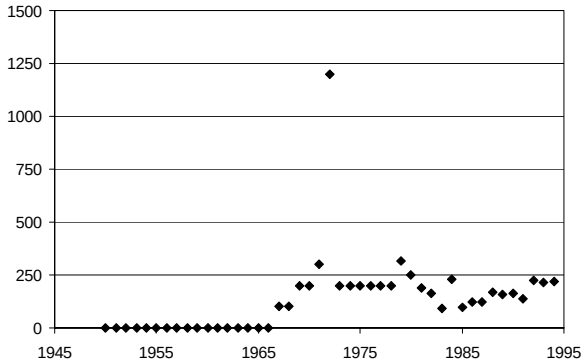
Rhinobatidae



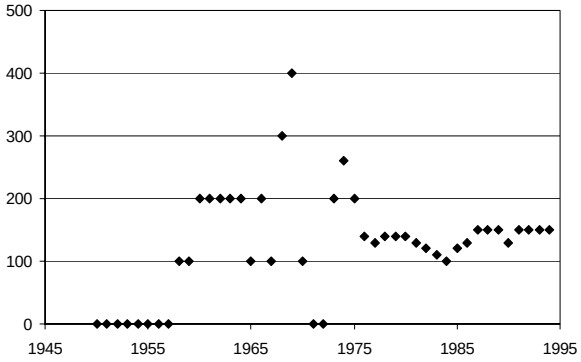
Sarda sarda



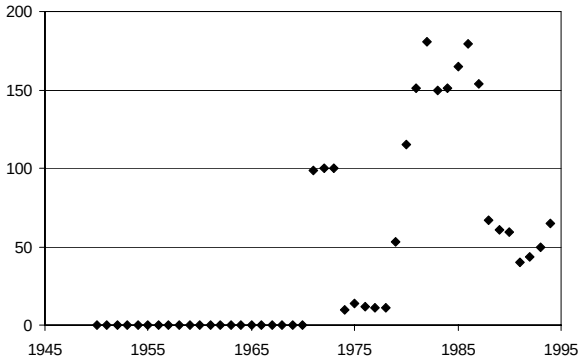
Saurida undosquamis



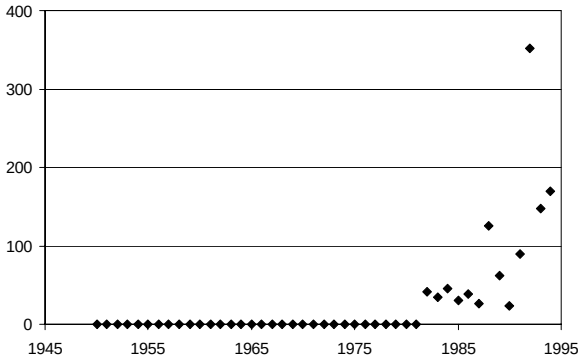
Scombroidei



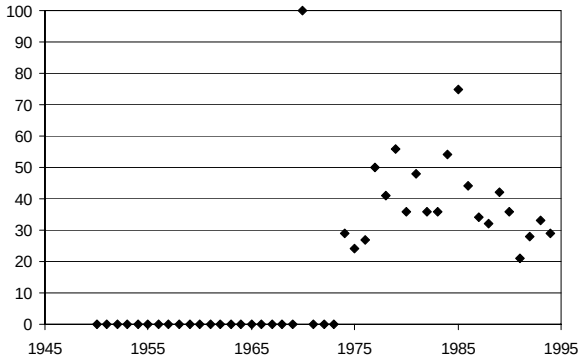
Spongidae



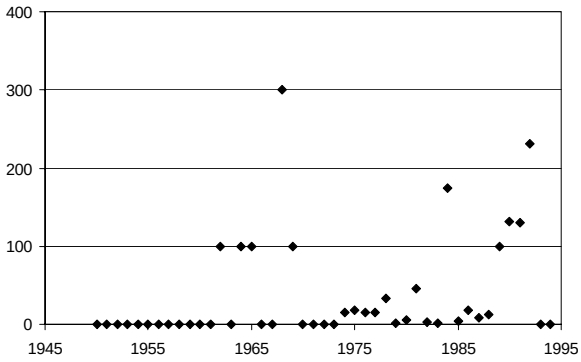
Sprattus sprattus



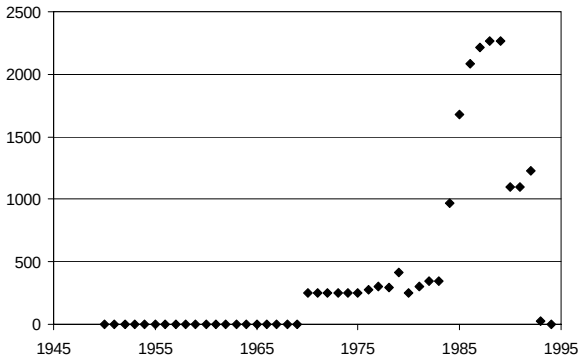
Squalus acanthias



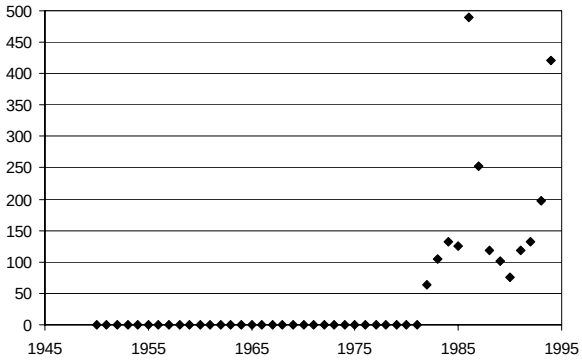
Testudinata



Thunnus alalunga



Trigla lyra



ANNEX 1: Assignation of species to key ecological or biological categories

Estuarine resources
Alosa spp
Anguilla anguilla
Lithognathus mormyrus
Mugil cephalus
Mugilidae

Benthic and coastal resources
Bivalvia
Carcinus aestuarii
Cardium edule
Crangon crangon
Crassostrea angulata
Dicentrarchus labrax
Dicentrarchus spp
Donax spp
Gastropoda
Gobiidae
Gobius spp
Littorina littorea
Microcosmus sulcatus
Mollusca
Murex spp
Mytilus galloprovincialis
Ostrea edulis
Palaemon serratus
Paracentrotus lividus
Pecten jacobaeus
Reptantia
Ruditapes decussatus
Siganus spp
Solen spp
Spongidae
Tapes pullastra
Tapes spp
Umbrina cirrosa
Venus gallina

Demersal resources
Argentina spp
Argyrosomus regius
Atherinidae
Conger conger
Congridae
Dentex dentex
Dentex macrophtalmus
Dentex spp
Dicologoglosa cuneata
Diplodus sargus
Diplodus spp
Elasmobranchii
Eledone spp
Epinephelus aeneus
Epinephelus guaza
Epinephelus spp
Homarus gammarus
Lepidorhombus whiffiagonis
Maja squinado
Merlangius merlangus
Mullus barbatus
Mullus spp
Mullus surmuletus
Mustelus spp
Oblada melanura
Octopodidae
Octopus vulgaris
Pagellus acarne
Pagellus bogaraveo
Pagellus erythrinus
Pagellus spp
Pagrus pagrus
Palinurus elephas
Palinurus mauritanicus
Palinurus spp
Penaeus kerathurus
Platichthys flexus
Plectorhinchus mediterraneus
Pleuronectes platessa
Pleuronectiformes
Pollachius pollachius
Polyprion americanus
Psetta maxima maxima
Raja spp
Rajiformes
Rhinobatidae
Sarpa salpa
Saurida undosquasmis
Sciaena spp
Sciaenidae
Scorpaenidae
Scyliorhinus spp
Sepia officinalis
Sepiidae-sepiolidae
Serranidae
Solea vulgaris
Sparidae,
Sparus (=pagrus) spp
Sparus aurata
Spondylosoma cantharus
Squatina squatina
Squatinidae
Synodontidae
Trachinus draco
Trigla lyra
Triglidae
Trisopterus luscus
Trisopterus minutus
Zeus faber

Slope resources
Aristeus antennatus
Cancer pagurus
Corallium rubrum
Gadiformes
Lophiidae
Lophius piscatorius
Merluccius merluccius
Micromesistius potassou
Nephrops norvegicus
Parapenaeus longirostris
Phycis blennoides
Plesiopenaeus edwardsianus
Squilla mantis

Pelagic resources
Balistes capriscus
Belone belone
Boops boops
Brama brama
Carangidae
Caranx spp
Clupeoidei
Engraulis encrasicolus
Lepidopus caudatus
Lichia amia
Loliginidae-Ommastrophidae
Loligo spp
Pomatomus saltatrix
Sardina pilchardus
Sardinella spp
Scomber spp
Scomber japonicus
Scomber scombrus
Scombridae
Scombroidei
Seriola dumerilii
Seriola spp
Sphyraena spp
Spicara maena
Spicara spp
Sprattus sprattus
Squalus acanthias
Squalidae
Todarodes sagittatus
Trachurus mediterraneus
Trachurus spp
Trachurus trachurus

Highly Migratory Resources
Auxis thazard-A. Rochei
Coryphaena hippurus
Euthynnus alletteratus
Katsuwonus pelamis
Lamna nasus
Orcynopsis unicolor
Sarda sarda
Scombroidei
Thunnus alalunga
Thunnus thynnus
Xiphias gladius