# INFORME

# CAMPAÑA ARSA 0306

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## 1. INTRODUCCIÓN

Durante los días del 8 al 21 de marzo del 2006 se ha llevado a cabo la campaña con arte de arrastre de fondo ARSA-0306. La zona prospectada ha correspondido a la zona de plataforma y talud continental de la parte española del Golfo de Cádiz, comprendida entre el meridiano 7° 20' W, o la frontera con Portugal, el paralelo 36° 15' N, entre las isóbatas de 15 y 900 m, siendo su límite inferior la distancia de 6 millas a la costa.

La campaña se realizó a bordo del B/O "Cornide de Saavedra", siendo los objetivos previstos los siguientes:

1.- Estimación de los índices de abundancia (número y biomasa), de las especies demersales de mayor interés pesquero, así como de la fauna asociada a ellas.

2.- Determinación de la distribución geográfica y batimétrica de las diferentes especies.

3.- Obtención de las distribuciones de tallas de peces, de las capturas así como de los crustáceos y moluscos de interés pesquero.

4.- Obtención de datos biológicos de las principales especies comerciales: estados de madurez, proporción de sexos.

5.- Extracción de otolitos de las siguientes especies: merluza; boquerón.

6- Actualizar y completar el catálogo faunístico de los fondos de arrastre de la plataforma y talud continental del Golfo de Cádiz. Dicho catálogo será complementado con material fotográfico.

7.- Obtención de datos oceanográficos.

8.- Prospección de zonas profundas (proyecto TUTATIS)

9.- Observación de aves marinas

Se realizaron un total de 43 lances con 41 lances válidos, mas 23 estaciones de CTD.

## 2. PERSONAL PARTICIPANTE

| | |
|---|---|
| Ignacio Sobrino Yraola | Jefe de Campaña (IEO, Cadiz) (DNI 28.559.706-P) |
| Juan Gil Herrera | Pesca (IEO, Cádiz) (DNI 815.265-F) |
| Carlos Farias Rapallo | Pesca (IEO, Cádiz) (DNI 16.552.995-X) |
| Luis Silva Caparro | Pesca (IEO, Cádiz) (DNI 52.321.251-T) |
| Juan José Acosta Rivera | Pesca (IEO, Cádiz) (DNI 44.026.498-J) |
| Teresa García Jiménez | Pescas(IEO, Málaga) (24.853.542-H) |
| Angel Carpena Egea | Pescas (IEO, Málaga) (DNI 24.673.840-S) |
| Yolanda Vila Gordillo | Pesca (IEO, Cádiz) (DNI 32.864.441-V) |

| | |
|---|---|
| Jesús Canoura Baldonado | Pesca (IEO, Cádiz) (DNI 31.256.455-F) (1° Turno) |
| Ana Juárez Dávila | Pesca (IEO, Cádiz) (1° turno) |
| Ester Herrera Martinez | Pescas (IEO, Cádiz) (1° Turno) |
| Jorge Baro Dominguez | Pescas (IEO, Málaga) (2° turno |
| Zeneida Romero Romero | Pesca (IEO, Cádiz) (2° turno) |
| Jose Miguel Serna Quintero | CTD (IEO, Málaga) (2° turno) |
| Mª Paz Jiménez Gómez | Pesca (IEO, Cádiz) (2° turno) |
| María Liébana López | Pescas (Becario Universidad Cádiz) (2° Turno) |
| Sonia Rivero Domínguez | Pescas (Becaria Universidad Cádiz) (1° Turno) |
| Susana Vela Vallejo | Pescas (Becaria Universidad Cádiz) (2° turno). |
| Eduardo Ramírez Vallejo | Universidad de Cádiz (1° Turno) |
| Juan Ignacio González Gordillo | Universidad de Cádiz (1° Turno) |
| Mercedes Pozo Buil | Universidad de Cádiz (2° Turno) |
| María Mateo Rodríguez | Aves Universidad de Cádiz (2° Turno) |

## 3. MATERIAL Y MÉTODOS

### 3.1. Barco

B/O "Cornide de Saavedra"
Eslora: 66.7 m
T.R.B.: 1150
C.V.: 1651

### 3.2. Arte

Se ha utilizado un arte de arrastre de fondo tipo "Baka", con un copo de 40 mm de malla teórica cubierto internamente por un copo de 20 mm, 60.3 m de burlón, 43.8 m de relinga de corchos y 17.9 m de alas.

### 3.3. Metodología

El área prospectada corresponde a la plataforma y talud continental, siendo su límite inferior la distancia de 6 millas a costa, a partir de la cual pueden realizarse las operaciones de pesca por la flota comercial, ya que la isóbata de 50 m se encuentra a mayor distancia. El límite superior del área a prospectar queda definido por la isóbata de 800 m.

La plataforma y talud se dividen en cinco estratos de profundidad de la siguiente manera:

Estrato A: 15-30 m
Estrato B: 31-100 m
Estrato C: 101-200 m
Estrato D: 201-500 m
Estrato E: 501-800 m

La zona a estudiar se dividió en cuadrículas de 5 x 5 minutos, correspondiendo al estrato A un total de 8 cuadrículas (412 $km^2$), al B 39 (2681 $km^2$), al C 20 (1189 $km^2$), al D 28 (1692 $km^2$) y al E 31 (1250 $km^2$).

Se diseñó un muestreo estratificado aleatorio proporcional al área de cada estrato, siendo el número de lances a realizar por estrato de 4 en el A, 15 en el B, 7 en el C, 9 en el D y 6 en el E.

La creación de los ficheros de datos así como el procesamiento de los mismos ha sido efectuado mediante el "Programa de Procesamiento de datos de Campañas de Arrastre demersal. CAMP 10" (F. Sánchez, 1995).

**- Rendimientos**

Los rendimientos (g/60 minutos de arrastre) se han calculado para cada una de las especies capturadas en cada lance. Los rendimientos medios se han obtenido a partir de los rendimientos de cada uno de los lances válidos realizados en cada estrato de profundidad.

Las fórmulas utilizadas para el cálculo del rendimiento medio estratificado y su varianza para cada especie han sido las siguientes:

$$\overline{Y}_{st} = \frac{1}{A} * \sum A_h * \overline{Y}_h \qquad S^2_{(\overline{Y}_{st})} = \frac{1}{A^2} * \sum \frac{A_h^2 * S_h^2}{n_h}$$

Donde:

$Y_{st}$ = Captura media estratificada

$S^2_{(Yst)}$ = Varianza estratificada

A = Superficie total

$A_h$ = Superficie de cada estrato

$Y_h$ = Captura media por lance en cada estrato

$n_h$ = Número de lances en cada estrato

$S^2_h$ = Varianza de cada uno de los estratos

**- Distribuciones de frecuencias de tallas**

Fueron medidas al cm inferior la longitud total de todos los peces capturados durante la campaña. Para los cefalópodos (*Sepia officinales, Sepia elegans, Loligo vulgaris y Loligo*

*forbessi Octopus vulgaris, Eledone moschata y Eledone cirrosa*), se midió la longitud dorsal del manto, también al cm inferior.

Para la gamba blanca (*Parapenaeus longirostris*), la cigala (*Nephrops norvegicus*) y el moruno (*Aristeomorpha foliacea*), el parámetro considerado fue la longitud del cefalotórax, medido al mm inferior.

**- Distribuciones de frecuencias de tallas por sexos**

Las distribuciones de tallas por sexos fueron obtenidas tanto para aquellas especies a las que se les realizaron muestreos biológicos, así como para todas las especies de elasmobranquios capturadas.

**- Muestreos biológicos**

Los datos tomados de las especies a las cuales se les realizó muestreo biológico fueron: talla al mm inferior, sexo y estado de madurez. Las especies consideradas fueron:

- *Merluccius merluccius*
- *Octopus vulgaris*
- *Parapenaeus longirostris*
- *Sepia officinalis*
- *Eledone moschata*
- *Eledone cirrosa*
- *Loligo vulgaris*
- *Loligo forbesii*

Además se extrajeron otolitos en el caso de *Merluccius merluccius*

**- Parámetros fisico-químico**

La obtención de los parámetros fisico-químicos del agua se ha realizado con un CTD. Se realizaron un total de 24 estaciones.

## 4. RESULTADOS

En la tabla I figuran las características de todos los lances realizados en la campaña de evaluación (ARSA 0306): hora de largada y virada, coordenadas geográficas de las mismas, profundidad, tiempo de duración del lance, etc

De los 41 lances válidos realizados, 4 se efectuaron en estrato A, 15 en el B, 7 en el C, 9 en el D y 6 en el E (figura 1).

## 4.1. Rendimientos

La captura total en peso (kilogramos) y número por especie y para cada estrato se presentan en la tabla II: se capturaron un total de 142 especies de peces, 47 de crustáceos, 49 de moluscos, 22 de equinodermos, así como una serie de invertebrados incluidos en el grupo denominado varios. En la tabla III figuran los rendimientos medios (en gramos por hora de arrastre) y los correspondientes errores estandars correspondientes, para cada una de las especies por estrato batimétrico y para el total del área.

En la tabla IV se presentan los resultados obtenidos para las principales especies en la serie histórica de campañas

## 4.2. Distribuciones de tallas

En la figura 2 están representadas las distribuciones de tallas de las principales especies capturadas a lo largo de la campaña. Las especies representadas son:

- *Boops boops*
- *Merluccius merluccius*
- *Diplodus annularis*
- *Diplodus vulgaris*
- *Pagellus erytrinus*
- *Scomber japonicus*
- *Lepidopus caudatus*
- *Galeus melastomus*
- *Conger conger*
- *Cepola macrophthalma*
- *Sardina pilchardis*
- *Octopus vulgaris*
- *Eledone moschata*
- *Parapenaeus longirostris*
- *Citharus linguatula*
- *Micromesistius poutassou*
- *Diplodus bellottii*
- *Pagellus acarne*
- *Pagellus bellottii*
- *Scomber scomber*
- *Trachurus trachurus*
- *Scylorhinus canicula*
- *Chimarea monstruosa*
- *Engraulis encrasicholus*
- *Helicolemus dactylopterus*
- *Eledone cirrhosa*
- *Sepia officinalis*
- *Neprhops norvegicus*

## 4.3 Estaciones hidrográficas

En la figura 1 se presentan las situaciones de las diferentes estaciones de hidrografía realizadas durante la campaña.

## 4.4 Avistamiento de Aves

Se observaron un total de trece especies, (Tabla V), de ellas, se registraron once especies de aves marinas aprovechando descartes y desechos de pesca durante veinticuatro operaciones diurnas de arrastre. Las especies más comunes fueron: Gaviota patiamarilla (Larus michaellis), Pardela cenicienta (Calonectris diomedea), Alcatraz atlántico (Morus bassanus) y Págalo grande (Catharacta skua), otras especies se observaron con menor frecuencia asociadas a los descartes: Gaviota de Audouin (Larus audouinii), Gaviota reidora (Larus ridibundus), Charrán patinegro (Sterna sandvicensis), Charrán común (Sterna hirundo), y Págalo parásito (Stercorarius parasiticus). Además se observaron individuos de otras especies en las

proximidades del barco durante los transectos de pesca y navegación, aunque no se registró aprovechamiento de descartes pesqueros: Págalo pomarino Stercorarius pomarinus, Alca (Alca torda).

Resulta interesante comprobar que esta composición de especies difiere de la observada en el mes de noviembre de 2005 durante los avistamientos realizados en la campaña ARSA 1105, tanto en las especies, como en el número de aves censadas de cada especie.

| |
|---|
| Pardela cenicienta Calonectris diomedea |
| Pardela balear Puffinus mauretanicus |
| Alcatraz atlántico Morus bassanus |
| Págalo grande Catharacta skua |
| Págalo pomarino Stercorarius pomarinus |
| Págalo parásito Stercorarius parasiticus |
| Gaviota patiamarilla Larus michaellis |
| Gaviota sombría Larus fuscus |
| Gaviota reidora Larus ridibundus |
| Gaviota de Audouin Larus audouinii |
| Charrán patinegro Sterna sandvicensis |
| Charrán común Sterna hirundo |
| Alca Alca torda |

Tabla V. Listado de especies avistadas

# Características de los lances

| | | LARGADA | | | | VIRADA | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nº | Fecha | Hora | Lat. | Long. | Prof. | Hora | Lat. | Long. | Prof. | Durat. | Validez | Observaciones |
| 1 | 10-03-06 | 10.43 | 36.44 | 6.35 | 25 | 11.43 | 36.46 | 6.38 | 25 | 60 | SI | |
| 2 | 10-03-06 | 12.10 | 36.46 | 6.39 | 29 | 12.49 | 36.48 | 6.40 | 27 | 60 | NO | |
| 3 | 10-03-06 | 14.35 | 36.50 | 6.41 | 25 | 15.35 | 36.53 | 6.43 | 26 | 60 | SI | |
| 4 | 10-03-06 | 16.16 | 36.57 | 6.45 | 25 | 17.16 | 36.59 | 6.47 | 28 | 60 | SI | |
| 5 | 11-03-06 | 8.13 | 36.15 | 6.28 | 88 | 9.12 | 36.12 | 6.26 | 83 | 60 | SI | |
| 6 | 11-03-06 | 13.18 | 36.10 | 6.26 | 85 | 14.18 | 36.07 | 6.26 | 90 | 60 | SI | |
| 7 | 11-03-06 | 15.27 | 36.01 | 6.30 | 305 | 16.27 | 36.03 | 6.33 | 351 | 60 | SI | |
| 8 | 12-03-06 | 8.16 | 36.20 | 6.30 | 80 | 9.16 | 36.17 | 6.29 | 79 | 60 | SI | |
| 9 | 12-03-06 | 10.20 | 36.14 | 6.32 | 112 | 11.20 | 36.11 | 6.31 | 111 | 60 | SI | |
| 10 | 12-03-06 | 13.07 | 36.16 | 6.19 | 40 | 14.07 | 36.19 | 6.20 | 44 | 60 | SI | |
| 11 | 12-03-06 | 15.14 | 36.26 | 6.27 | 55 | 15.47 | 36.27 | 6.28 | 57 | 60 | NO | |
| 12 | 13-03-06 | 7.45 | 36.27 | 7.05 | 560 | 8.45 | 36.26 | 7.08 | 527 | 60 | SI | |
| 13 | 13-03-06 | 10.08 | 36.23 | 7.09 | 681 | 11.08 | 36.21 | 7.07 | 682 | 60 | SI | |
| 14 | 13-03-06 | 13.26 | 36.20 | 7.05 | 657 | 14.26 | 36.19 | 7.01 | 603 | 60 | SI | |
| 15 | 13-03-06 | 15.38 | 36.23 | 7.02 | 544 | 16.38 | 36.25 | 7.03 | 564 | 60 | SI | |
| 16 | 14-03-06 | 8.23 | 36.28 | 7.03 | 553 | 9.23 | 36.25 | 7.03 | 557 | 60 | SI | |
| 17 | 14-03-06 | 12.19 | 36.24 | 6.49 | 395 | 13.19 | 36.22 | 6.47 | 394 | 60 | SI | |
| 18 | 14-03-06 | 14.55 | 36.26 | 6.38 | 110 | 15.55 | 36.29 | 6.40 | 112 | 60 | SI | |
| 19 | 15-03-06 | 10.26 | 36.35 | 6.32 | 49 | 11.26 | 36.32 | 6.31 | 55 | 60 | SI | |
| 20 | 15-03-06 | 13.21 | 36.19 | 6.40 | 285 | 14.21 | 36.16 | 6.39 | 297 | 60 | SI | |
| 21 | 15-03-06 | 15.15 | 36.16 | 6.35 | 172 | 16.15 | 36.19 | 6.37 | 171 | 60 | SI | |
| 22 | 16-03-06 | 8.17 | 36.36 | 7.03 | 499 | 9.17 | 36.39 | 7.02 | 488 | 60 | SI | |
| 23 | 16-03-06 | 10.19 | 36.41 | 7.01 | 442 | 11.19 | 36.43 | 7.04 | 444 | 60 | SI | |
| 24 | 16-03-06 | 13.24 | 36.44 | 7.14 | 494 | 14.24 | 36.42 | 7.12 | 496 | 60 | SI | |
| 25 | 16-03-06 | 15.25 | 36.40 | 7.14 | 533 | 16.25 | 36.37 | 7.14 | 556 | 60 | SI | |
| 26 | 17-03-06 | 8.08 | 36.44 | 6.55 | 119 | 9.08 | 36.42 | 6.53 | 124 | 60 | SI | |
| 27 | 17-03-06 | 10.02 | 36.40 | 6.47 | 98 | 11.02 | 36.38 | 6.45 | 98 | 60 | SI | |
| 28 | 17-03-06 | 13.11 | 36.39 | 6.50 | 130 | 14.11 | 36.36 | 6.48 | 128 | 60 | SI | |
| 29 | 17-03-06 | 15.02 | 36.34 | 6.49 | 235 | 16.02 | 36.31 | 6.47 | 247 | 60 | SI | |
| 30 | 18-03-06 | 8.13 | 36.41 | 6.56 | 236 | 9.13 | 36.43 | 6.58 | 247 | 60 | SI | |
| 31 | 18-03-06 | 10.39 | 36.47 | 6.57 | 114 | 11.39 | 36.50 | 6.59 | 109 | 60 | SI | |
| 32 | 18-03-06 | 13.11 | 36.52 | 6.55 | 78 | 14.11 | 36.54 | 6.58 | 78 | 60 | SI | |
| 33 | 18-03-06 | 14.58 | 36.57 | 6.55 | 52 | 15.58 | 36.59 | 6.59 | 54 | 60 | SI | |
| 34 | 19-03-06 | 8.23 | 36.50 | 7.08 | 248 | 9.23 | 36.51 | 7.12 | 242 | 60 | SI | |
| 35 | 19-03-06 | 10.14 | 36.52 | 7.11 | 162 | 11.14 | 36.53 | 7.15 | 148 | 60 | SI | |
| 36 | 19-03-06 | 13.07 | 37.02 | 7.21 | 69 | 14.07 | 37.01 | 7.17 | 70 | 60 | SI | |
| 37 | 19-03-06 | 14.45 | 36.59 | 7.15 | 90 | 15.45 | 36.58 | 7.11 | 93 | 60 | SI | |
| 38 | 19-03-06 | 16.26 | 37.01 | 7.10 | 60 | 17.26 | 37.01 | 7.06 | 54 | 60 | SI | |
| 39 | 20-03-06 | 8.16 | 36.54 | 6.48 | 41 | 9.16 | 36.52 | 6.46 | 39 | 60 | SI | |
| 40 | 20-03-06 | 10.09 | 36.50 | 6.50 | 60 | 11.09 | 36.48 | 6.47 | 58 | 60 | SI | |
| 41 | 20-03-06 | 13.04 | 36.45 | 6.45 | 60 | 14.04 | 36.42 | 6.44 | 63 | 60 | SI | |
| 42 | 20-03-06 | 14.39 | 36.43 | 6.41 | 43 | 15.39 | 36.41 | 6.38 | 40 | 60 | SI | |
| 43 | 20-03-06 | 16.32 | 36.47 | 6.40 | 29 | 17.32 | 36.49 | 6.42 | 28 | 60 | SI | |

CAMPAÑA: ARSA 0306
CAPTURA TOTAL
SECTOR 1: CADIZ

| ESPECIE | 15- 30 m | | 31-100 m | | 101-200 m | | 201-500 m | | 501-750 m | | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO |
| PECES | | | | | | | | | | | | |
| Alosa agone | 2.079 | 9 | 6.367 | 17 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 8.446 | 26 |
| Aphia minuta mediterranea | 0.936 | 1436 | 1.098 | 1817 | 0.000 | 0 | 0.002 | 7 | 0.000 | 0 | 2.036 | 3260 |
| Argentina sphyraena | 0.000 | 0 | 1.300 | 100 | 11.409 | 1128 | 0.000 | 0 | 0.000 | 0 | 12.709 | 1228 |
| Argyropelecus hemigymnus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.006 | 8 | 0.007 | 12 | 0.013 | 20 |
| Argyrosomus regius | 3.354 | 19 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 3.354 | 19 |
| Arnoglossus imperialis | 0.000 | 0 | 0.013 | 2 | 0.048 | 1 | 0.000 | 0 | 0.000 | 0 | 0.061 | 3 |
| Arnoglossus laterna | 0.173 | 19 | 12.834 | 1922 | 4.347 | 549 | 0.007 | 3 | 0.000 | 0 | 17.361 | 2493 |
| Arnoglossus rueppelii | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.523 | 23 | 0.000 | 0 | 0.523 | 23 |
| Arnoglossus thori | 0.005 | 1 | 0.345 | 43 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.350 | 44 |
| Bathysolea profundicola | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.088 | 5 | 0.243 | 13 | 0.331 | 18 |
| Blennius ocellaris | 0.000 | 0 | 0.031 | 1 | 0.152 | 8 | 0.000 | 0 | 0.000 | 0 | 0.183 | 9 |
| Boops boops | 0.530 | 7 | 17.595 | 342 | 9.352 | 111 | 0.319 | 5 | 0.000 | 0 | 27.796 | 465 |
| Breviraja sp. | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.685 | 10 | 0.783 | 16 | 1.468 | 26 |
| Buglossidium luteum | 0.280 | 47 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.280 | 47 |
| Caelorhinchus caelorhincus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.071 | 7 | 10.003 | 164 | 10.074 | 171 |
| Callionymus lyra | 0.078 | 35 | 0.580 | 8 | 0.026 | 7 | 0.074 | 1 | 0.000 | 0 | 0.758 | 51 |
| Callionymus maculatus | 0.000 | 0 | 0.008 | 2 | 0.116 | 41 | 0.003 | 2 | 0.000 | 0 | 0.127 | 45 |
| Callionymus risso | 0.004 | 7 | 0.342 | 49 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.346 | 56 |
| Capros aper | 0.000 | 0 | 0.019 | 9 | 0.521 | 83 | 0.039 | 4 | 0.000 | 0 | 0.579 | 96 |
| Caranx rhonchus | 0.796 | 37 | 1.760 | 4 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 2.556 | 41 |
| Centrophorus granulosus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 11.780 | 3 | 11.780 | 3 |
| Cepola macrophthalma | 0.005 | 1 | 6.515 | 158 | 15.076 | 274 | 0.001 | 1 | 0.000 | 0 | 21.597 | 434 |
| Chauliodus sloani | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.003 | 1 | 0.003 | 1 |
| Chelidonichthys lucernus | 0.180 | 2 | 4.522 | 25 | 1.316 | 10 | 0.000 | 0 | 0.000 | 0 | 6.018 | 37 |
| Chelidonichthys obscurus | 0.065 | 1 | 15.223 | 230 | 5.396 | 68 | 0.000 | 0 | 0.000 | 0 | 20.684 | 299 |
| Chimaera monstrosa | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 60.395 | 461 | 85.339 | 188 | 145.734 | 649 |
| Chlorophthalmus agassizi | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.121 | 7 | 0.229 | 7 | 0.350 | 14 |
| Citharus linguatula | 0.105 | 5 | 9.316 | 553 | 2.293 | 122 | 0.105 | 3 | 0.000 | 0 | 11.819 | 683 |
| Conger conger | 1.934 | 34 | 3.165 | 39 | 0.230 | 3 | 4.831 | 13 | 1.014 | 4 | 11.174 | 93 |
| Cyttopsis roseus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.207 | 1 | 0.207 | 1 |
| Deania calcea | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 6.280 | 6 | 6.280 | 6 |
| Deltentosteus quadrimaculatus | 0.000 | 0 | 0.004 | 2 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.004 | 2 |
| Dentex macrophtalmus | 0.000 | 0 | 0.138 | 7 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.138 | 7 |
| Dentex marocanus | 0.000 | 0 | 0.484 | 22 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.484 | 22 |
| Diaphus sp. | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.013 | 2 | 0.000 | 0 | 0.013 | 2 |
| Dicologoglossa cuneata | 0.899 | 30 | 2.015 | 55 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 2.914 | 85 |
| Diplodus annularis | 0.505 | 14 | 1.007 | 25 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 1.512 | 39 |
| Diplodus bellottii | 32.619 | 870 | 6.458 | 127 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 39.077 | 997 |
| Diplodus cervinus | 0.838 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.838 | 1 |
| Diplodus vulgaris | 0.998 | 11 | 17.595 | 174 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 18.593 | 185 |
| Echiodon dentatus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.008 | 1 | 0.000 | 0 | 0.008 | 1 |
| Engraulis encrasicolus | 241.891 | 43685 | 176.798 | 38895 | 1.286 | 114 | 0.263 | 20 | 0.000 | 0 | 420.238 | 82714 |
| Epigonus denticulatus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.003 | 2 | 0.000 | 0 | 0.003 | 2 |
| Etmopterus pusillus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.318 | 1 | 0.318 | 1 |
| Etmopterus spinax | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 11.828 | 270 | 21.840 | 255 | 33.668 | 525 |
| Facciolella oxyrhincha | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.395 | 11 | 0.244 | 6 | 0.639 | 17 |
| Gadiculus argenteus argenteus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 9.340 | 1232 | 3.757 | 427 | 13.097 | 1659 |
| Gaidropsarus biscayensis | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.061 | 7 | 0.002 | 1 | 0.063 | 8 |
| Galeorhinus galeus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 13.680 | 1 | 0.000 | 0 | 13.680 | 1 |
| Galeus atlanticus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 29.542 | 463 | 28.005 | 332 | 57.547 | 795 |

Continua

CAMPAÑA: ARSA 0306
CAPTURA TOTAL
SECTOR 1: CADIZ

| ESPECIE | 15- 30 m | | 31-100 m | | 101-200 m | | 201-500 m | | 501-750 m | | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO |
| PECES | | | | | | | | | | | | |
| Galeus melastomus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 47.448 | 647 | 119.923 | 775 | 167.371 | 1422 |
| Glossanodon leioglosum | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.011 | 1 | 0.000 | 0 | 0.011 | 1 |
| Gnathophis mystax | 0.000 | 0 | 0.023 | 1 | 0.070 | 3 | 7.254 | 199 | 0.000 | 0 | 7.347 | 203 |
| Gobius niger | 0.227 | 79 | 0.126 | 18 | 0.018 | 2 | 0.000 | 0 | 0.000 | 0 | 0.371 | 99 |
| Gymnammodytes cicerellus | 0.000 | 0 | 0.008 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.008 | 1 |
| Halobatrachus didactylus | 1.232 | 5 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 1.232 | 5 |
| Helicolenus dactylopterus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 3.361 | 15 | 32.961 | 131 | 36.322 | 146 |
| Heptranchias perlo | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 11.440 | 5 | 0.000 | 0 | 11.440 | 5 |
| Hexanchus griseus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 1.422 | 1 | 0.000 | 0 | 1.422 | 1 |
| Hippocampus hippocampus | 0.000 | 0 | 0.001 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.001 | 1 |
| Hoplostethus mediterraneus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.421 | 11 | 0.421 | 11 |
| Hymenocephalus gracilis | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.014 | 3 | 0.000 | 0 | 0.014 | 3 |
| Lampanyctus crocodilus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.010 | 1 | 0.010 | 1 |
| Lepidopus caudatus | 0.000 | 0 | 0.103 | 27 | 0.466 | 39 | 0.421 | 9 | 0.070 | 1 | 1.060 | 76 |
| Lepidorhombus boscii | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.153 | 4 | 0.000 | 0 | 0.153 | 4 |
| Lepidotrigla cavillone | 0.000 | 0 | 1.145 | 48 | 1.235 | 48 | 0.000 | 0 | 0.000 | 0 | 2.380 | 96 |
| Lepidotrigla dieuzeidei | 0.000 | 0 | 0.587 | 22 | 14.160 | 678 | 0.000 | 0 | 0.000 | 0 | 14.747 | 700 |
| Lesueurigobius friesii | 0.033 | 4 | 0.894 | 932 | 0.018 | 35 | 0.000 | 0 | 0.000 | 0 | 0.945 | 971 |
| Lesueurigobius sanzoi | 2.658 | 421 | 16.537 | 2056 | 0.705 | 123 | 0.123 | 106 | 0.000 | 0 | 20.023 | 2706 |
| Lithognathus mormyrus | 0.079 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.079 | 1 |
| Liza aurata | 0.000 | 0 | 12.471 | 31 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 12.471 | 31 |
| Liza ramada | 0.000 | 0 | 0.525 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.525 | 1 |
| Lophius budegassa | 0.000 | 0 | 22.171 | 16 | 18.949 | 36 | 6.236 | 8 | 0.373 | 1 | 47.729 | 61 |
| Lophius piscatorius | 0.000 | 0 | 6.833 | 2 | 0.417 | 2 | 0.000 | 0 | 0.000 | 0 | 7.250 | 4 |
| Macroramphosus scolopax | 0.000 | 0 | 0.158 | 9 | 0.082 | 32 | 8.278 | 454 | 0.000 | 0 | 8.518 | 495 |
| Malacocephalus laevis | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 2.313 | 23 | 0.180 | 2 | 2.493 | 25 |
| Maurolicus muelleri | 0.000 | 0 | 0.000 | 0 | 0.005 | 5 | 0.036 | 31 | 0.000 | 0 | 0.041 | 36 |
| Merluccius merluccius | 1.565 | 10 | 43.120 | 347 | 30.040 | 239 | 12.980 | 88 | 0.515 | 1 | 88.220 | 685 |
| Microchirus azevia | 0.000 | 0 | 0.753 | 6 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.753 | 6 |
| Microchirus boscanion | 0.119 | 17 | 18.435 | 2318 | 1.944 | 204 | 0.003 | 1 | 0.000 | 0 | 20.501 | 2540 |
| Microchirus ocellatus | 0.000 | 0 | 0.068 | 3 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.068 | 3 |
| Microchirus variegatus | 0.000 | 0 | 0.070 | 4 | 0.059 | 6 | 0.000 | 0 | 0.000 | 0 | 0.129 | 10 |
| Micromesistius poutassou | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 34.427 | 343 | 5.587 | 50 | 40.014 | 393 |
| Mictophido sp. | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.001 | 1 | 0.000 | 0 | 0.001 | 1 |
| Monochirus hispidus | 0.000 | 0 | 0.020 | 2 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.020 | 2 |
| Mullus barbatus | 0.019 | 1 | 7.473 | 127 | 1.145 | 14 | 0.000 | 0 | 0.000 | 0 | 8.637 | 142 |
| Mullus surmuletus | 0.681 | 10 | 3.031 | 34 | 1.605 | 13 | 3.622 | 14 | 0.538 | 2 | 9.477 | 73 |
| Muraena helena | 0.000 | 0 | 0.000 | 0 | 4.160 | 1 | 0.000 | 0 | 0.000 | 0 | 4.160 | 1 |
| Myctophum punctatum | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.028 | 11 | 0.049 | 17 | 0.077 | 28 |
| Nezumia aequalis | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.221 | 28 | 17.753 | 885 | 17.974 | 913 |
| Notacanthus bonapartei | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.286 | 6 | 0.286 | 6 |
| Pagellus acarne | 1.187 | 22 | 69.862 | 1007 | 0.279 | 5 | 1.648 | 5 | 0.000 | 0 | 72.976 | 1039 |
| Pagellus bellotii | 15.505 | 158 | 0.453 | 5 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 15.958 | 163 |
| Pagellus bogaraveo | 0.000 | 0 | 0.087 | 3 | 0.000 | 0 | 0.312 | 3 | 0.000 | 0 | 0.399 | 6 |
| Pagellus erythrinus | 1.020 | 9 | 11.924 | 140 | 0.120 | 1 | 0.000 | 0 | 0.000 | 0 | 13.064 | 150 |
| Pagrus pagrus | 0.000 | 0 | 0.000 | 0 | 0.828 | 1 | 0.000 | 0 | 0.000 | 0 | 0.828 | 1 |
| Phycis blennoides | 0.000 | 0 | 0.000 | 0 | 0.007 | 1 | 14.261 | 137 | 5.618 | 69 | 19.886 | 207 |
| Polymetme corythaeola | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 2.425 | 54 | 2.425 | 54 |
| Pomadasys incisus | 15.470 | 291 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 15.470 | 291 |
| Pomatomus saltator | 1.157 | 4 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 1.157 | 4 |
| Pomatoschistus minutus | 0.010 | 11 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.010 | 11 |

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CAMPAÑA: ARSA 0306
CAPTURA TOTAL
SECTOR 1: CADIZ

| ESPECIE | 15- 30 m | | 31-100 m | | 101-200 m | | 201-500 m | | 501-750 m | | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO |
| PECES | | | | | | | | | | | | |
| Pomatoschistus sp. | 0.016 | 17 | 0.010 | 10 | 0.003 | 4 | 0.000 | 0 | 0.000 | 0 | 0.029 | 31 |
| Psetta maxima maxima | 0.000 | 0 | 6.200 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 6.200 | 1 |
| Pteromylaeus bovinus | 0.000 | 0 | 1.161 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 1.161 | 1 |
| Raja batis | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 15.200 | 2 | 15.200 | 2 |
| Raja clavata | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 25.707 | 29 | 0.061 | 1 | 25.768 | 30 |
| Raja fullonica | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.748 | 1 | 0.000 | 0 | 0.748 | 1 |
| Raja microocellata | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 2.461 | 1 | 2.461 | 1 |
| Raja naevus | 0.000 | 0 | 0.024 | 3 | 0.000 | 0 | 23.688 | 87 | 6.958 | 19 | 30.670 | 109 |
| Raja oxyrhinchus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.027 | 1 | 1.676 | 10 | 1.703 | 11 |
| Sardina pilchardus | 0.764 | 45 | 5.156 | 150 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 5.920 | 195 |
| Schedophilus ovalis | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.001 | 1 | 0.003 | 4 | 0.004 | 5 |
| Scomber japonicus | 11.971 | 225 | 76.564 | 1750 | 21.370 | 226 | 94.200 | 880 | 0.000 | 0 | 204.105 | 3081 |
| Scomber scombrus | 1.490 | 20 | 1.027 | 11 | 1.217 | 8 | 0.374 | 4 | 0.000 | 0 | 4.108 | 43 |
| Scorpaena notata | 0.647 | 4 | 2.167 | 35 | 0.150 | 3 | 0.000 | 0 | 0.000 | 0 | 2.964 | 42 |
| Scorpaena porcus | 1.669 | 4 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 1.669 | 4 |
| Scorpaena scrofa | 0.000 | 0 | 0.821 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.821 | 1 |
| Scyliorhinus canicula | 0.000 | 0 | 30.678 | 60 | 21.908 | 59 | 175.869 | 701 | 8.538 | 38 | 236.993 | 858 |
| Serranus cabrilla | 0.000 | 0 | 0.077 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.077 | 1 |
| Serranus hepatus | 0.758 | 44 | 13.106 | 829 | 11.583 | 636 | 0.011 | 1 | 0.000 | 0 | 25.458 | 1510 |
| Solea solea | 0.078 | 1 | 3.224 | 16 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 3.302 | 17 |
| Sparus aurata | 0.333 | 3 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.333 | 3 |
| Sphoeroides pachygaster | 0.000 | 0 | 0.000 | 0 | 6.729 | 77 | 0.000 | 0 | 0.000 | 0 | 6.729 | 77 |
| Spicara flexuosa | 1.422 | 19 | 1.362 | 38 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 2.784 | 57 |
| Spicara smaris | 0.008 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.008 | 1 |
| Spondyliosoma cantharus | 1.180 | 22 | 32.060 | 288 | 1.719 | 9 | 0.000 | 0 | 0.000 | 0 | 34.959 | 319 |
| Squalus blainvillei | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 11.935 | 16 | 0.000 | 0 | 11.935 | 16 |
| Stromateus fiatola | 0.546 | 2 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.546 | 2 |
| Symphurus nigrescens | 0.000 | 0 | 0.193 | 34 | 0.677 | 79 | 0.846 | 98 | 0.047 | 6 | 1.763 | 217 |
| Synchiropus phaeton | 0.000 | 0 | 0.000 | 0 | 0.288 | 10 | 1.251 | 54 | 0.000 | 0 | 1.539 | 64 |
| Torpedo marmorata | 0.761 | 2 | 2.733 | 11 | 0.354 | 1 | 0.115 | 2 | 0.000 | 0 | 3.963 | 16 |
| Trachinus draco | 0.000 | 0 | 3.613 | 51 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 3.613 | 51 |
| Trachurus mediterraneus | 0.723 | 30 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.723 | 30 |
| Trachurus picturatus | 0.000 | 0 | 58.780 | 1812 | 57.133 | 1309 | 14.811 | 214 | 0.155 | 1 | 130.879 | 3336 |
| Trachurus trachurus | 0.339 | 10 | 34.511 | 1036 | 35.282 | 750 | 18.863 | 314 | 0.000 | 0 | 88.995 | 2110 |
| Trigla lyra | 0.000 | 0 | 0.000 | 0 | 0.081 | 2 | 0.040 | 1 | 0.000 | 0 | 0.121 | 3 |
| Trigloporus lastoviza | 0.292 | 2 | 0.719 | 8 | 0.719 | 6 | 0.000 | 0 | 0.000 | 0 | 1.730 | 16 |
| Trisopterus luscus | 0.000 | 0 | 0.305 | 4 | 0.125 | 2 | 0.000 | 0 | 0.000 | 0 | 0.430 | 6 |
| Umbrina cirrosa | 0.179 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.179 | 1 |
| Uranoscopus scaber | 0.242 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.242 | 1 |
| Zenopsis conchifer | 0.000 | 0 | 0.000 | 0 | 0.012 | 1 | 0.000 | 0 | 0.000 | 0 | 0.012 | 1 |
| Zeus faber | 0.000 | 0 | 0.000 | 0 | 6.395 | 23 | 0.237 | 1 | 0.000 | 0 | 6.632 | 24 |
| Total especies | 352.654 | 47767 | 776.901 | 57939 | 293.625 | 7212 | 657.139 | 7111 | 391.862 | 3525 | 2472.181 | 123554 |
| CRUSTACEOS | | | | | | | | | | | | |
| Alpheus glaber | 0.007 | 11 | 0.223 | 443 | 0.001 | 2 | 0.061 | 93 | 0.003 | 2 | 0.295 | 551 |
| Aristeomorpha foliacea | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.054 | 2 | 0.054 | 2 |
| Atelecyclus rotundatus | 0.000 | 0 | 0.010 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.010 | 1 |
| Bathynectes maravigna | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.046 | 4 | 0.170 | 13 | 0.216 | 17 |
| Chlorotocus crassicornis | 0.000 | 0 | 0.118 | 88 | 0.207 | 164 | 2.051 | 1041 | 0.527 | 221 | 2.903 | 1514 |

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CAMPAÑA: ARSA 0306
CAPTURA TOTAL
SECTOR 1: CADIZ

| ESPECIE | 15- 30 m | | 31-100 m | | 101-200 m | | 201-500 m | | 501-750 m | | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO |
| CRUSTACEOS | | | | | | | | | | | | |
| Dardanus arrosor | 0.023 | 4 | 0.085 | 58 | 0.187 | 13 | 0.661 | 13 | 0.000 | 0 | 0.956 | 88 |
| Dorippe lanata | 0.190 | 14 | 0.076 | 5 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.266 | 19 |
| Goneplax rhomboides | 0.109 | 21 | 0.253 | 64 | 0.024 | 4 | 0.020 | 6 | 0.008 | 5 | 0.414 | 100 |
| Homola barbata | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.062 | 4 | 0.062 | 4 |
| Liocarcinus depurator | 0.000 | 0 | 1.405 | 81 | 0.212 | 15 | 0.166 | 13 | 0.004 | 1 | 1.787 | 110 |
| Lophogaster typicus | 0.000 | 0 | 0.001 | 1 | 0.001 | 2 | 0.020 | 20 | 0.000 | 0 | 0.022 | 23 |
| Macropipus tuberculatus | 0.000 | 0 | 0.019 | 3 | 0.090 | 9 | 2.564 | 257 | 0.496 | 63 | 3.169 | 332 |
| Macropodia longipes | 0.000 | 0 | 0.001 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.001 | 1 |
| Macropodia longirostris | 0.000 | 0 | 0.006 | 7 | 0.003 | 1 | 0.000 | 0 | 0.000 | 0 | 0.009 | 8 |
| Maja goltziana | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.062 | 1 | 0.000 | 0 | 0.062 | 1 |
| Meganyctiphanes norvegica | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 6.800 | 17011 | 0.007 | 20 | 6.807 | 17031 |
| Munida intermedia | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.065 | 28 | 0.035 | 15 | 0.100 | 43 |
| Munida iris | 0.000 | 0 | 0.004 | 3 | 0.190 | 144 | 0.401 | 271 | 0.003 | 4 | 0.598 | 422 |
| Nephrops norvegicus | 0.000 | 0 | 0.000 | 0 | 0.040 | 3 | 2.144 | 55 | 3.956 | 119 | 6.140 | 177 |
| Pagurus alatus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.310 | 60 | 0.310 | 60 |
| Pagurus excavatus | 0.024 | 3 | 0.147 | 42 | 0.009 | 2 | 0.030 | 8 | 0.015 | 4 | 0.225 | 59 |
| Pagurus prideauxi | 0.000 | 0 | 0.025 | 6 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.025 | 6 |
| Palinurus mauritanicus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.725 | 1 | 0.725 | 1 |
| Parapenaeus longirostris | 0.000 | 0 | 3.404 | 1942 | 2.946 | 584 | 11.338 | 1872 | 0.204 | 18 | 17.892 | 4416 |
| Pasiphaea multidentata | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.072 | 90 | 0.000 | 0 | 0.072 | 90 |
| Pasiphaea sivado | 0.000 | 0 | 0.000 | 0 | 0.003 | 3 | 15.372 | 15371 | 1.089 | 867 | 16.464 | 16241 |
| Penaeopsis serrata | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.066 | 10 | 0.008 | 1 | 0.074 | 11 |
| Penaeus kerathurus | 0.309 | 10 | 0.865 | 30 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 1.174 | 40 |
| Philocheras echinulatus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.020 | 48 | 0.032 | 60 | 0.052 | 108 |
| Pisidia longicornis | 0.000 | 0 | 0.001 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.001 | 1 |
| Plesionika antigai | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 2.779 | 2519 | 0.037 | 33 | 2.816 | 2552 |
| Plesionika edwardsii | 0.000 | 0 | 0.000 | 0 | 0.001 | 1 | 0.003 | 4 | 0.000 | 0 | 0.004 | 5 |
| Plesionika heterocarpus | 0.000 | 0 | 0.065 | 65 | 15.029 | 12643 | 1.337 | 1020 | 0.013 | 8 | 16.444 | 13736 |
| Plesionika martia | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 3.579 | 755 | 3.579 | 755 |
| Polybius henslowi | 0.000 | 0 | 0.018 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.018 | 1 |
| Pontocaris cataphracta | 0.014 | 18 | 0.056 | 58 | 0.008 | 4 | 0.000 | 0 | 0.000 | 0 | 0.078 | 80 |
| Pontocaris lacazei | 0.001 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.003 | 8 | 0.004 | 9 |
| Pontophilus spinosus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.003 | 6 | 0.000 | 0 | 0.003 | 6 |
| Processa canaliculata | 0.001 | 1 | 0.002 | 3 | 0.000 | 0 | 0.048 | 34 | 0.038 | 22 | 0.089 | 60 |
| Rissoides polidus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.023 | 8 | 0.000 | 0 | 0.023 | 8 |
| Sergestes arcticus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.032 | 73 | 0.058 | 153 | 0.090 | 226 |
| Sergestes robustus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.003 | 3 | 0.018 | 10 | 0.021 | 13 |
| Solenocera membranacea | 0.001 | 1 | 0.086 | 47 | 0.013 | 7 | 0.781 | 458 | 0.258 | 134 | 1.139 | 647 |
| Squilla mantis | 7.861 | 270 | 19.533 | 492 | 0.070 | 2 | 0.000 | 0 | 0.000 | 0 | 27.464 | 764 |
| Systellaspis debilis | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.001 | 1 | 0.002 | 2 | 0.003 | 3 |
| Xantho incisus | 0.000 | 0 | 0.001 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.001 | 1 |
| Xantho sp. | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.003 | 5 | 0.003 | 5 |
| Total especies | 8.540 | 354 | 26.404 | 3443 | 19.034 | 13603 | 46.969 | 40338 | 11.717 | 2610 | 112.664 | 60348 |
| MOLUSCOS | | | | | | | | | | | | |
| Abralia veranyi | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.005 | 1 | 0.000 | 0 | 0.005 | 1 |
| Acanthocardia echinata | 0.000 | 0 | 0.055 | 2 | 0.006 | 1 | 0.000 | 0 | 0.000 | 0 | 0.061 | 3 |
| Alloteuthis media | 2.375 | 947 | 0.481 | 80 | 0.273 | 85 | 0.013 | 1 | 0.000 | 0 | 3.142 | 1113 |
| Alloteuthis subulata | 2.041 | 267 | 2.372 | 321 | 0.278 | 50 | 0.000 | 0 | 0.000 | 0 | 4.691 | 638 |

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CAMPAÑA: ARSA 0306
CAPTURA TOTAL
SECTOR 1: CADIZ

| ESPECIE | 15- 30 m | | 31-100 m | | 101-200 m | | 201-500 m | | 501-750 m | | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO |
| MOLUSCOS | | | | | | | | | | | | |
| Anadara diluvii | 0.000 | 0 | 0.000 | 0 | 1.040 | 78 | 0.043 | 3 | 0.000 | 0 | 1.083 | 81 |
| Anomia ephippium | 0.073 | 5 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.073 | 5 |
| Aplysia spp. | 0.000 | 0 | 0.005 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.005 | 1 |
| Argobuccinum olearium | 0.000 | 0 | 0.092 | 1 | 0.000 | 0 | 0.847 | 5 | 1.137 | 18 | 2.076 | 24 |
| Benthoctopus ergasticus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.011 | 1 | 0.011 | 1 |
| Bolinus brandaris | 0.044 | 2 | 0.083 | 2 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.127 | 4 |
| Buccinum hamphreysianum | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.001 | 7 | 0.001 | 7 |
| Cassidaria tyrrhena | 0.000 | 0 | 0.210 | 5 | 0.337 | 4 | 1.364 | 15 | 0.541 | 13 | 2.452 | 37 |
| Chiton olivaceus | 0.018 | 3 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.018 | 3 |
| Chlamys flexuosa | 0.020 | 3 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.020 | 3 |
| Chlamys varia | 0.000 | 0 | 0.019 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.019 | 1 |
| Cymatium parthenopus | 0.000 | 0 | 0.028 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.028 | 1 |
| Cymbium olla | 0.735 | 8 | 1.062 | 12 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 1.797 | 20 |
| Eledone cirrhosa | 0.000 | 0 | 3.807 | 15 | 14.285 | 85 | 4.647 | 30 | 2.113 | 12 | 24.852 | 142 |
| Eledone moschata | 0.241 | 2 | 22.972 | 130 | 22.761 | 130 | 1.586 | 8 | 0.000 | 0 | 47.560 | 270 |
| Flexopecten flexuosus | 0.000 | 0 | 0.004 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.004 | 1 |
| Halia priamus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.018 | 1 | 0.018 | 1 |
| Illex coindetii | 0.000 | 0 | 0.000 | 0 | 1.136 | 6 | 0.831 | 2 | 0.000 | 0 | 1.967 | 8 |
| Loligo forbesi | 0.000 | 0 | 0.000 | 0 | 1.766 | 12 | 0.668 | 2 | 0.000 | 0 | 2.434 | 14 |
| Loligo vulgaris | 3.168 | 18 | 5.272 | 15 | 0.242 | 3 | 0.000 | 0 | 0.000 | 0 | 8.682 | 36 |
| Modiolus martorelli | 0.043 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.043 | 1 |
| Neorossia caroli | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.483 | 9 | 0.483 | 9 |
| Octopus defilippi | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.085 | 1 | 0.000 | 0 | 0.085 | 1 |
| Octopus salutii | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.241 | 1 | 0.218 | 1 | 0.459 | 2 |
| Octopus vulgaris | 5.314 | 2 | 260.078 | 451 | 40.460 | 66 | 0.399 | 1 | 0.000 | 0 | 306.251 | 520 |
| Ostrea edulis | 0.000 | 0 | 0.123 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.123 | 1 |
| Pinna pectinata | 0.315 | 1 | 6.493 | 22 | 18.621 | 89 | 0.222 | 2 | 0.000 | 0 | 25.651 | 114 |
| Pleurobranchia meckeli | 0.000 | 0 | 0.066 | 4 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.066 | 4 |
| Pteria hirundo | 0.000 | 0 | 0.000 | 0 | 0.093 | 4 | 0.000 | 0 | 0.000 | 0 | 0.093 | 4 |
| Rondeletiola minor | 0.001 | 1 | 0.001 | 1 | 0.028 | 16 | 0.023 | 19 | 0.000 | 0 | 0.053 | 37 |
| Rossia macrosoma | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.494 | 9 | 0.000 | 0 | 0.494 | 9 |
| Scaeurgus unicirrhus | 0.000 | 0 | 0.000 | 0 | 0.133 | 2 | 0.006 | 1 | 0.000 | 0 | 0.139 | 3 |
| Sepia elegans | 0.000 | 0 | 0.421 | 53 | 1.105 | 140 | 0.066 | 4 | 0.000 | 0 | 1.592 | 197 |
| Sepia officinalis | 2.631 | 6 | 36.333 | 80 | 11.767 | 21 | 0.000 | 0 | 0.000 | 0 | 50.731 | 107 |
| Sepia orbignyana | 0.000 | 0 | 0.000 | 0 | 0.163 | 4 | 0.133 | 3 | 0.000 | 0 | 0.296 | 7 |
| Sepietta oweniana | 0.000 | 0 | 0.009 | 3 | 0.030 | 2 | 0.093 | 25 | 0.005 | 1 | 0.137 | 31 |
| Sepietta sp. | 0.000 | 0 | 0.009 | 2 | 0.009 | 1 | 0.012 | 6 | 0.000 | 0 | 0.030 | 9 |
| Sepiola atlántica | 0.000 | 0 | 0.001 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.001 | 1 |
| Sepiola sp. | 0.000 | 0 | 0.032 | 20 | 0.000 | 0 | 0.007 | 3 | 0.000 | 0 | 0.039 | 23 |
| Solecurtus sp | 0.000 | 0 | 0.007 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.007 | 1 |
| Tethys fimbria | 0.000 | 0 | 0.020 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.020 | 1 |
| Todaropsis eblanae | 0.000 | 0 | 0.046 | 1 | 0.324 | 5 | 2.204 | 8 | 0.409 | 2 | 2.983 | 16 |
| Turritella spp. | 0.000 | 0 | 0.002 | 2 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.002 | 2 |
| Venus nux | 0.000 | 0 | 3.247 | 224 | 3.211 | 209 | 0.088 | 4 | 0.000 | 0 | 6.546 | 437 |
| Xenophora crispa | 0.000 | 0 | 0.000 | 0 | 0.048 | 2 | 0.000 | 0 | 0.000 | 0 | 0.048 | 2 |
| Total especies | 17.019 | 1266 | 343.350 | 1454 | 118.116 | 1015 | 14.077 | 154 | 4.936 | 65 | 497.498 | 3954 |
| EQUINODERMOS | | | | | | | | | | | | |
| Anseropoda placenta | 0.000 | 0 | 0.016 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.016 | 1 |

Continua

CAMPAÑA: ARSA 0306
CAPTURA TOTAL
SECTOR 1: CADIZ

| ESPECIE | 15- 30 m | | 31-100 m | | 101-200 m | | 201-500 m | | 501-750 m | | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO |
| EQUINODERMOS | | | | | | | | | | | | |
| Antedon mediterranea | 0.000 | 0 | 0.020 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.020 | 1 |
| Astropecten aranciacus | 0.000 | 0 | 0.185 | 1 | 0.270 | 5 | 1.228 | 9 | 0.000 | 0 | 1.683 | 15 |
| Astropecten irregularis | 0.215 | 62 | 1.656 | 457 | 0.098 | 36 | 0.086 | 34 | 0.006 | 3 | 2.061 | 592 |
| Astrospartus mediterraneus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.039 | 1 | 0.000 | 0 | 0.039 | 1 |
| Brissopsis lyrifera | 0.000 | 0 | 1.619 | 65 | 0.401 | 21 | 0.000 | 0 | 0.000 | 0 | 2.020 | 86 |
| Cidaris cidaris | 0.000 | 0 | 0.000 | 0 | 0.020 | 1 | 12.794 | 460 | 16.483 | 1326 | 29.297 | 1787 |
| Cucumaria elongata | 0.010 | 3 | 0.006 | 2 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.016 | 5 |
| Cucumaria tergespina | 0.002 | 1 | 0.058 | 22 | 0.006 | 2 | 0.000 | 0 | 0.000 | 0 | 0.066 | 25 |
| Echinus acutus | 0.000 | 0 | 0.009 | 1 | 0.150 | 1 | 5.950 | 54 | 1.954 | 108 | 8.063 | 164 |
| Holothuria forskali | 0.000 | 0 | 0.000 | 0 | 0.348 | 1 | 0.000 | 0 | 0.000 | 0 | 0.348 | 1 |
| Holoturia sp. | 0.000 | 0 | 2.626 | 6 | 1.099 | 2 | 0.193 | 1 | 6.759 | 23 | 10.677 | 32 |
| Holoturia tubulosa | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.257 | 2 | 0.000 | 0 | 0.257 | 2 |
| Nymphaster arenatus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.007 | 1 | 0.007 | 1 |
| Ophidiaster ophidianus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.011 | 1 | 0.000 | 0 | 0.011 | 1 |
| Ophiura texturata | 0.000 | 0 | 0.024 | 5 | 0.009 | 1 | 0.018 | 4 | 0.000 | 0 | 0.051 | 10 |
| Paracentrotus lividus | 0.008 | 1 | 0.099 | 7 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.107 | 8 |
| Psamechinus microtuberculatus | 0.017 | 3 | 0.723 | 62 | 0.000 | 0 | 0.030 | 1 | 0.000 | 0 | 0.770 | 66 |
| Spatangus purpureus | 0.000 | 0 | 50.307 | 607 | 0.020 | 1 | 0.000 | 0 | 0.000 | 0 | 50.327 | 608 |
| Sphaerechinus granularis | 0.000 | 0 | 0.884 | 17 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.884 | 17 |
| Sphaerodiscus placenta | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 1.557 | 75 | 1.557 | 75 |
| Stichopus regalis | 0.000 | 0 | 0.573 | 1 | 0.988 | 3 | 1.250 | 5 | 0.000 | 0 | 2.811 | 9 |
| Total especies | 0.252 | 70 | 58.805 | 1255 | 3.409 | 74 | 21.856 | 572 | 26.766 | 1536 | 111.088 | 3507 |
| OTROS | | | | | | | | | | | | |
| Actinauge richardi | 0.000 | 0 | 0.102 | 3 | 0.000 | 0 | 0.811 | 39 | 0.093 | 13 | 1.006 | 55 |
| Actinia spp | 0.000 | 0 | 0.012 | 8 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.012 | 8 |
| Alcyonum palmatum | 0.000 | 0 | 0.018 | 1 | 0.001 | 1 | 0.003 | 1 | 0.000 | 0 | 0.022 | 3 |
| Anelido sp | 0.000 | 0 | 0.010 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.010 | 1 |
| Antedon mediterranea | 0.000 | 0 | 0.069 | 1 | 0.129 | 126 | 0.000 | 0 | 0.000 | 0 | 0.198 | 127 |
| Aphrodite aculeata | 0.000 | 0 | 0.419 | 18 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.419 | 18 |
| Ascidia sp. | 0.000 | 0 | 0.033 | 5 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.033 | 5 |
| Aurelia aurita | 0.000 | 0 | 0.000 | 0 | 0.065 | 1 | 0.000 | 0 | 0.000 | 0 | 0.065 | 1 |
| Balanophyllia europaea | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.048 | 4 | 0.048 | 4 |
| Briozoo | 0.000 | 0 | 0.028 | 3 | 0.000 | 0 | 0.010 | 1 | 0.000 | 0 | 0.038 | 4 |
| Caretta caretta | 20.700 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 20.700 | 1 |
| Coral | 0.000 | 0 | 0.000 | 0 | 0.027 | 1 | 0.000 | 0 | 0.000 | 0 | 0.027 | 1 |
| Esponjas | 0.000 | 0 | 9.255 | 644 | 0.000 | 0 | 0.652 | 6 | 7.006 | 4 | 16.913 | 654 |
| Glycera rouxii | 0.000 | 0 | 0.002 | 1 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.002 | 1 |
| Gryphus vitreus | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.014 | 1 | 0.062 | 17 | 0.076 | 18 |
| Harmothoë spp. | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.001 | 1 | 0.001 | 1 |
| Hidrozoos. | 0.000 | 0 | 0.064 | 2 | 0.018 | 1 | 0.005 | 1 | 0.000 | 0 | 0.087 | 4 |
| Medusas | 0.000 | 0 | 0.000 | 0 | 0.114 | 1 | 0.000 | 0 | 0.000 | 0 | 0.114 | 1 |
| Pennatula rubra | 0.000 | 0 | 0.925 | 105 | 0.025 | 3 | 0.050 | 9 | 0.000 | 0 | 1.000 | 117 |
| Phalusia mammillata | 0.000 | 0 | 1.506 | 10 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 1.506 | 10 |
| Phyllodoce sp. | 0.000 | 0 | 1.000 | 100 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 1.000 | 100 |
| Pteroides spinosus | 0.000 | 0 | 3.838 | 129 | 0.000 | 0 | 0.024 | 2 | 0.000 | 0 | 3.862 | 131 |
| Pyrosoma atlanticum | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.013 | 1 | 0.013 | 1 |
| Rhizostoma pulmo | 0.000 | 0 | 0.019 | 10 | 0.090 | 1 | 0.000 | 0 | 0.000 | 0 | 0.109 | 11 |
| Salpa maxima | 0.127 | 1 | 0.249 | 1 | 0.160 | 1 | 0.000 | 0 | 0.000 | 0 | 0.536 | 3 |

Continua

CAMPAÑA: ARSA 0306
CAPTURA TOTAL
SECTOR 1: CADIZ

| ESPECIE | 15- 30 m | | 31-100 m | | 101-200 m | | 201-500 m | | 501-750 m | | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO | PESO | NUMERO |
| OTROS | | | | | | | | | | | | |
| Salpidae | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 2.089 | 39 | 0.500 | 20 | 2.589 | 59 |
| Sipunculido spp. | 0.000 | 0 | 0.011 | 2 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.011 | 2 |
| Suberites domuncula | 0.000 | 0 | 0.745 | 34 | 0.000 | 0 | 0.000 | 0 | 0.000 | 0 | 0.745 | 34 |
| Veretillum cynomonium | 0.000 | 0 | 0.975 | 60 | 0.087 | 4 | 0.324 | 22 | 0.000 | 0 | 1.386 | 86 |
| Total especies | 20.827 | 2 | 19.280 | 1138 | 0.716 | 140 | 3.982 | 121 | 7.723 | 60 | 52.528 | 1461 |
| RESIDUOS SOLIDOS | | | | | | | | | | | | |
| Cabo | 0.000 | 0 | 0.258 | 2 | 0.072 | 1 | 0.030 | 1 | 0.087 | 2 | 0.447 | 6 |
| Ceramica | 0.000 | 0 | 0.735 | 1 | 0.000 | 0 | 0.000 | 0 | 2.604 | 2 | 3.339 | 3 |
| Cuero | 0.000 | 0 | 0.000 | 0 | 0.066 | 1 | 0.153 | 1 | 0.000 | 0 | 0.219 | 2 |
| Madera | 0.000 | 0 | 0.054 | 1 | 0.040 | 1 | 1.549 | 1 | 0.000 | 0 | 1.643 | 3 |
| Restos de redes y aparejos | 0.000 | 0 | 35.721 | 6 | 0.060 | 1 | 0.000 | 0 | 0.000 | 0 | 35.781 | 7 |
| Rizomas | 0.000 | 0 | 0.000 | 0 | 1.928 | 2 | 0.000 | 0 | 0.000 | 0 | 1.928 | 2 |
| Telas | 0.227 | 1 | 0.237 | 1 | 0.150 | 1 | 0.000 | 0 | 0.000 | 0 | 0.614 | 3 |
| carbón | 0.000 | 0 | 0.600 | 1 | 0.000 | 0 | 1.312 | 2 | 0.000 | 0 | 1.912 | 3 |
| escoria | 0.534 | 1 | 0.934 | 5 | 1.382 | 5 | 3.820 | 4 | 53.447 | 5 | 60.117 | 20 |
| hierro/latas | 0.045 | 1 | 0.300 | 6 | 0.153 | 3 | 0.657 | 5 | 0.126 | 4 | 1.281 | 19 |
| plasticos | 0.486 | 4 | 2.450 | 12 | 0.244 | 4 | 0.922 | 9 | 1.009 | 4 | 5.111 | 33 |
| vidrio/cristal | 0.000 | 0 | 0.346 | 2 | 0.795 | 2 | 0.410 | 4 | 0.605 | 3 | 2.156 | 11 |
| Total especies | 1.292 | 7 | 41.635 | 37 | 4.890 | 21 | 8.853 | 27 | 57.878 | 20 | 114.548 | 112 |

| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| AMMODYTIDAE | | | | | | | |
| *Gymnammodytes cicerellus* | Med | | 0.5 | | | | **0.2** |
| | Smd | | 0.5 | | | | **0.0** |
| APOGONIDAE | | | | | | | |
| *Epigonus denticulatus* | Med | | | | 0.3 | | **0.1** |
| | Smd | | | | 0.3 | | **0.0** |
| ARGENTINIDAE | | | | | | | |
| *Argentina sphyraena* | Med | | 86.7 | 1629.9 | | | **300.4** |
| | Smd | | 86.7 | 1263.9 | | | **32.9** |
| *Glossanodon leioglosum* | Med | | | | 1.2 | | **0.3** |
| | Smd | | | | 1.2 | | **0.0** |
| BATRACHOIDIDAE | | | | | | | |
| *Halobatrachus didactylus* | Med | 308.0 | | | | | **17.6** |
| | Smd | 230.0 | | | | | **2.0** |
| BLENNIIDAE | | | | | | | |
| *Blennius ocellaris* | Med | | 2.1 | 21.7 | | | **4.3** |
| | Smd | | 2.1 | 14.7 | | | **0.4** |
| BOTHIDAE | | | | | | | |
| *Arnoglossus imperialis* | Med | | 0.9 | 6.9 | | | **1.5** |
| | Smd | | 0.9 | 6.9 | | | **0.2** |
| *Arnoglossus laterna* | Med | 43.3 | 855.6 | 621.0 | 0.8 | | **422.4** |
| | Smd | 14.7 | 205.8 | 147.8 | 0.5 | | **12.5** |
| *Arnoglossus rueppelii* | Med | | | | 58.1 | | **13.6** |
| | Smd | | | | 41.7 | | **1.5** |
| *Arnoglossus thori* | Med | 1.3 | 23.0 | | | | **8.6** |
| | Smd | 1.3 | 12.5 | | | | **0.7** |
| CALLIONYMIDAE | | | | | | | |
| *Callionymus lyra* | Med | 19.5 | 38.7 | 3.7 | 8.2 | | **18.0** |
| | Smd | 12.1 | 34.4 | 3.7 | 8.2 | | **2.0** |
| *Callionymus maculatus* | Med | | 0.5 | 16.6 | 0.3 | | **3.0** |
| | Smd | | 0.5 | 7.0 | 0.3 | | **0.2** |
| *Callionymus risso* | Med | 1.0 | 22.8 | | | | **8.5** |
| | Smd | 1.0 | 18.5 | | | | **1.1** |
| *Synchiropus phaeton* | Med | | | 41.1 | 139.0 | | **39.3** |
| | Smd | | | 41.1 | 119.7 | | **4.5** |
| CAPROIDAE | | | | | | | |
| *Capros aper* | Med | | 1.3 | 74.4 | 4.3 | | **13.7** |
| | Smd | | 0.8 | 52.4 | 3.7 | | **1.4** |
| CARANGIDAE | | | | | | | |
| *Caranx rhonchus* | Med | 199.0 | 117.3 | | | | **54.9** |
| | Smd | 199.0 | 117.3 | | | | **7.0** |
| *Trachurus mediterraneus* | Med | 180.8 | | | | | **10.3** |
| | Smd | 100.7 | | | | | **0.9** |

***Tabla III.- Rendimientos medios (Med) en gr/hora de arrastre y sus errores típicos (Smd)***

| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| *Trachurus picturatus* | Med | | 3918.7 | 8161.9 | 1645.7 | 25.8 | **3187.6** |
| | Smd | | 3236.7 | 4500.9 | 1028.8 | 25.8 | **223.6** |
| *Trachurus trachurus* | Med | 84.8 | 2300.7 | 5040.3 | 2095.9 | | **2179.2** |
| | Smd | 83.1 | 1421.6 | 3271.0 | 1475.1 | | **129.5** |
| CARAPIDAE | | | | | | | |
| *Echiodon dentatus* | Med | | | | 0.9 | | **0.2** |
| | Smd | | | | 0.9 | | **0.0** |
| CENTRACANTHIDAE | | | | | | | |
| *Spicara flexuosa* | Med | 355.5 | 90.8 | | | | **54.0** |
| | Smd | 330.3 | 87.8 | | | | **5.9** |
| *Spicara smaris* | Med | 2.0 | | | | | **0.1** |
| | Smd | 2.0 | | | | | **0.0** |
| CENTROLOPHIDAE | | | | | | | |
| *Schedophilus ovalis* | Med | | | | 0.1 | 0.5 | **0.1** |
| | Smd | | | | 0.1 | 0.3 | **0.0** |
| CEPOLIDAE | | | | | | | |
| *Cepola macrophthalma* | Med | 1.3 | 434.3 | 2153.7 | 0.1 | | **515.8** |
| | Smd | 1.3 | 133.4 | 949.4 | 0.1 | | **25.6** |
| CHAULODONTIDAE | | | | | | | |
| *Chauliodus sloani* | Med | | | | | 0.5 | **0.1** |
| | Smd | | | | | 0.5 | **0.0** |
| CHIMAERIDAE | | | | | | | |
| *Chimaera monstrosa* | Med | | | | 6710.6 | 14223.2 | **4032.8** |
| | Smd | | | | 4556.2 | 8276.7 | **278.9** |
| CHLOROPHTHALMIDAE | | | | | | | |
| *Chlorophthalmus agassizi* | Med | | | | 13.4 | 38.2 | **9.8** |
| | Smd | | | | 6.4 | 29.1 | **0.8** |
| CITHARIDAE | | | | | | | |
| *Citharus linguatula* | Med | 26.3 | 621.1 | 327.6 | 11.7 | | **288.6** |
| | Smd | 26.3 | 177.0 | 86.4 | 8.4 | | **10.5** |
| CLUPEIDAE | | | | | | | |
| *Alosa fallax* | Med | 519.8 | 424.5 | | | | **187.2** |
| | Smd | 342.5 | 124.8 | | | | **7.9** |
| *Sardina pilchardus* | Med | 191.0 | 343.7 | | | | **138.5** |
| | Smd | 112.8 | 225.2 | | | | **13.1** |
| CONGRIDAE | | | | | | | |
| *Conger conger* | Med | 483.5 | 211.0 | 32.9 | 536.8 | 169.0 | **266.3** |
| | Smd | 340.8 | 68.1 | 22.5 | 273.9 | 107.5 | **11.6** |
| *Gnathophis mystax* | Med | | 1.5 | 10.0 | 806.0 | | **191.0** |
| | Smd | | 1.5 | 7.2 | 683.2 | | **25.0** |
| CYNOGLOSSIDAE | | | | | | | |
| *Symphurus nigrescens* | Med | | 12.9 | 96.7 | 94.0 | 7.8 | **44.1** |
| | Smd | | 7.7 | 45.6 | 39.7 | 3.9 | **1.9** |

***Tabla III.- Rendimientos medios (Med) en gr/hora de arrastre y sus errores típicos (Smd)***

| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| ENGRAULIDAE | | | | | | | |
| *Engraulis encrasicolus* | Med | 60472.8 | 11786.5 | 183.7 | 29.2 | | **7860.2** |
| | Smd | 51991.4 | 5314.3 | 96.5 | 29.2 | | **556.2** |
| GADIDAE | | | | | | | |
| *Gadiculus argenteus argente* | Med | | | | 1037.8 | 626.2 | **351.4** |
| | Smd | | | | 359.8 | 328.4 | **15.9** |
| *Gaidropsarus biscayensis* | Med | | | | 6.8 | 0.3 | **1.6** |
| | Smd | | | | 3.3 | 0.3 | **0.1** |
| *Micromesistius poutassou* | Med | | | | 3825.2 | 931.2 | **1057.1** |
| | Smd | | | | 1778.2 | 464.8 | **66.2** |
| *Phycis blennoides* | Med | | | 1.0 | 1584.6 | 936.3 | **533.3** |
| | Smd | | | 1.0 | 696.2 | 270.4 | **26.5** |
| *Trisopterus luscus* | Med | | 20.3 | 17.9 | | | **10.5** |
| | Smd | | 14.9 | 11.5 | | | **0.9** |
| GOBIIDAE | | | | | | | |
| *Aphia minuta mediterranea* | Med | 234.0 | 73.2 | | 0.2 | | **40.6** |
| | Smd | 178.3 | 37.2 | | 0.2 | | **2.7** |
| *Deltentosteus quadrimaculatu* | Med | | 0.3 | | | | **0.1** |
| | Smd | | 0.3 | | | | **0.0** |
| *Gobius niger* | Med | 56.8 | 8.4 | 2.6 | | | **6.8** |
| | Smd | 25.5 | 4.1 | 2.4 | | | **0.3** |
| *Lesueurigobius friesii* | Med | 8.3 | 59.6 | 2.6 | | | **23.0** |
| | Smd | 7.6 | 44.6 | 2.6 | | | **2.6** |
| *Lesueurigobius sanzoi* | Med | 664.5 | 1102.5 | 100.7 | 13.7 | | **466.8** |
| | Smd | 613.1 | 336.2 | 63.6 | 7.2 | | **20.3** |
| *Pomatoschistus minutus* | Med | 2.5 | | | | | **0.1** |
| | Smd | 1.9 | | | | | **0.0** |
| *Pomatoschistus sp.* | Med | 4.0 | 0.7 | 0.4 | | | **0.5** |
| | Smd | 1.8 | 0.3 | 0.4 | | | **0.0** |
| HAEMULIDAE | | | | | | | |
| *Pomadasys incisus* | Med | 3867.5 | | | | | **220.6** |
| | Smd | 3867.5 | | | | | **34.4** |
| HEXANCHIDAE | | | | | | | |
| *Heptranchias perlo* | Med | | | | 1271.1 | | **297.7** |
| | Smd | | | | 1271.1 | | **46.5** |
| *Hexanchus griseus* | Med | | | | 158.0 | | **37.0** |
| | Smd | | | | 158.0 | | **5.8** |
| LOPHIIDAE | | | | | | | |
| *Lophius budegassa* | Med | | 1478.1 | 2707.0 | 692.9 | 62.2 | **1167.1** |
| | Smd | | 993.9 | 746.6 | 279.2 | 62.2 | **61.6** |
| *Lophius piscatorius* | Med | | 455.5 | 59.6 | | | **178.9** |
| | Smd | | 439.9 | 59.6 | | | **25.5** |

***Tabla III.- Rendimientos medios (Med) en gr/hora de arrastre y sus errores típicos (Smd)***

| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| MACRORAMPHOSIDAE | | | | | | | |
| *Macroramphosus scolopax* | Med | | 10.5 | 11.7 | 919.8 | | **221.3** |
| | Smd | | 10.5 | 5.5 | 911.8 | | **33.4** |
| MACROURIDAE | | | | | | | |
| *Caelorhinchus caelorhincus* | Med | | | | 7.9 | 1667.2 | **290.3** |
| | Smd | | | | 4.3 | 997.8 | **27.0** |
| *Hymenocephalus gracilis* | Med | | | | 1.6 | | **0.4** |
| | Smd | | | | 1.6 | | **0.1** |
| *Malacocephalus laevis* | Med | | | | 257.0 | 30.0 | **65.4** |
| | Smd | | | | 150.7 | 23.9 | **5.5** |
| *Nezumia aequalis* | Med | | | | 24.6 | 2958.8 | **517.7** |
| | Smd | | | | 12.4 | 1612.7 | **43.6** |
| MERLUCCIIDAE | | | | | | | |
| *Merluccius merluccius* | Med | 391.3 | 2874.7 | 4291.4 | 1442.2 | 85.8 | **2148.1** |
| | Smd | 214.4 | 902.4 | 856.5 | 709.4 | 85.8 | **62.5** |
| MUGILIDAE | | | | | | | |
| *Liza aurata* | Med | | 831.4 | | | | **308.6** |
| | Smd | | 531.3 | | | | **30.8** |
| *Liza ramada* | Med | | 35.0 | | | | **13.0** |
| | Smd | | 35.0 | | | | **2.0** |
| MULLIDAE | | | | | | | |
| *Mullus barbatus* | Med | 4.8 | 498.2 | 163.6 | | | **212.1** |
| | Smd | 4.8 | 463.5 | 83.0 | | | **26.9** |
| *Mullus surmuletus* | Med | 170.3 | 202.1 | 229.3 | 402.4 | 89.7 | **232.2** |
| | Smd | 170.3 | 122.0 | 115.3 | 174.4 | 89.7 | **10.4** |
| MURAENIDAE | | | | | | | |
| *Muraena helena* | Med | | | 594.3 | | | **97.8** |
| | Smd | | | 594.3 | | | **15.3** |
| MYCTOPHIDAE | | | | | | | |
| *Diaphus sp.* | Med | | | | 1.4 | | **0.3** |
| | Smd | | | | 1.0 | | **0.0** |
| *Lampanyctus crocodilus* | Med | | | | | 1.7 | **0.3** |
| | Smd | | | | | 1.7 | **0.0** |
| *Mictophido sp.* | Med | | | | 0.1 | | **0.0** |
| | Smd | | | | 0.1 | | **0.0** |
| *Myctophum punctatum* | Med | | | | 3.1 | 8.2 | **2.1** |
| | Smd | | | | 1.9 | 7.6 | **0.2** |
| MYLIOBATIDAE | | | | | | | |
| *Pteromylaeus bovinus* | Med | | 77.4 | | | | **28.7** |
| | Smd | | 77.4 | | | | **4.5** |
| NETTASTOMATIDAE | | | | | | | |
| *Facciolella oxyrhincha* | Med | | | | 43.9 | 40.7 | **17.3** |
| | Smd | | | | 22.4 | 28.4 | **1.1** |

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| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| NOTACANTHIDAE | | | | | | | |
| *Notacanthus bonapartei* | Med | | | | | 47.7 | **8.2** |
| | Smd | | | | | 47.7 | **1.3** |
| PHOTICHTHYIDAE | | | | | | | |
| *Polymetme corythaeola* | Med | | | | | 404.2 | **69.9** |
| | Smd | | | | | 367.3 | **9.9** |
| POMATOMIDAE | | | | | | | |
| *Pomatomus saltator* | Med | 289.3 | | | | | **16.5** |
| | Smd | 289.3 | | | | | **2.6** |
| RAJIDAE | | | | | | | |
| *Breviraja sp.* | Med | | | | 76.1 | 130.5 | **40.4** |
| | Smd | | | | 58.6 | 52.8 | **2.6** |
| *Raja batis* | Med | | | | | 2533.3 | **438.4** |
| | Smd | | | | | 1723.5 | **46.6** |
| *Raja clavata* | Med | | | | 2856.3 | 10.2 | **670.8** |
| | Smd | | | | 1533.4 | 10.2 | **56.1** |
| *Raja fullonica* | Med | | | | 83.1 | | **19.5** |
| | Smd | | | | 83.1 | | **3.0** |
| *Raja microocellata* | Med | | | | | 410.2 | **71.0** |
| | Smd | | | | | 410.2 | **11.1** |
| *Raja naevus* | Med | | 1.6 | | 2632.0 | 1159.7 | **817.7** |
| | Smd | | 1.6 | | 1495.0 | 405.1 | **55.8** |
| *Raja oxyrhinchus* | Med | | | | 3.0 | 279.3 | **49.0** |
| | Smd | | | | 3.0 | 143.7 | **3.9** |
| SCIAENIDAE | | | | | | | |
| *Argyrosomus regius* | Med | 838.5 | | | | | **47.8** |
| | Smd | 838.5 | | | | | **7.5** |
| *Umbrina cirrosa* | Med | 44.8 | | | | | **2.6** |
| | Smd | 44.8 | | | | | **0.4** |
| SCOMBRIDAE | | | | | | | |
| *Scomber japonicus* | Med | 2992.8 | 5104.3 | 3052.9 | 10466.7 | | **5019.0** |
| | Smd | 2279.7 | 2866.3 | 1729.5 | 9026.6 | | **372.8** |
| *Scomber scombrus* | Med | 372.5 | 68.5 | 173.9 | 41.6 | | **85.0** |
| | Smd | 275.6 | 31.6 | 68.9 | 24.5 | | **3.6** |
| SCOPHTHALMIDAE | | | | | | | |
| *Lepidorhombus boscii* | Med | | | | 17.0 | | **4.0** |
| | Smd | | | | 12.5 | | **0.5** |
| *Psetta maxima maxima* | Med | | 413.3 | | | | **153.4** |
| | Smd | | 413.3 | | | | **24.0** |
| SCORPAENIDAE | | | | | | | |
| *Helicolenus dactylopterus* | Med | | | | 373.4 | 5493.5 | **1038.0** |
| | Smd | | | | 192.4 | 4921.7 | **133.2** |
| *Scorpaena notata* | Med | 161.8 | 144.5 | 21.4 | | | **66.4** |
| | Smd | 143.7 | 48.0 | 13.8 | | | **3.1** |

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|---|---|---|---|---|---|---|---|
| *Scorpaena porcus* | Med | 417.3 | | | | | **23.8** |
| | Smd | 284.7 | | | | | **2.5** |
| *Scorpaena scrofa* | Med | | 54.7 | | | | **20.3** |
| | Smd | | 54.7 | | | | **3.2** |
| SCYLIORHINIDAE | | | | | | | |
| *Galeus atlanticus* | Med | | | | 3282.4 | 4667.5 | **1576.4** |
| | Smd | | | | 2206.0 | 2176.9 | **99.9** |
| *Galeus melastomus* | Med | | | | 5272.0 | 19987.2 | **4693.3** |
| | Smd | | | | 2126.0 | 5568.8 | **169.4** |
| *Scyliorhinus canicula* | Med | | 2045.2 | 3129.7 | 19541.0 | 1423.0 | **6097.2** |
| | Smd | | 1147.4 | 1187.4 | 7960.5 | 482.5 | **300.5** |
| SERRANIDAE | | | | | | | |
| *Serranus cabrilla* | Med | | 5.1 | | | | **1.9** |
| | Smd | | 5.1 | | | | **0.3** |
| *Serranus hepatus* | Med | 189.5 | 873.7 | 1654.7 | 1.2 | | **607.7** |
| | Smd | 151.0 | 223.5 | 949.0 | 1.2 | | **27.7** |
| SOLEIDAE | | | | | | | |
| *Bathysolea profundicola* | Med | | | | 9.8 | 40.5 | **9.3** |
| | Smd | | | | 7.7 | 26.1 | **0.8** |
| *Buglossidium luteum* | Med | 70.0 | | | | | **4.0** |
| | Smd | 53.5 | | | | | **0.5** |
| *Dicologoglossa cuneata* | Med | 224.8 | 134.3 | | | | **62.7** |
| | Smd | 108.4 | 52.2 | | | | **3.2** |
| *Microchirus azevia* | Med | | 50.2 | | | | **18.6** |
| | Smd | | 43.7 | | | | **2.5** |
| *Microchirus boscanion* | Med | 29.8 | 1229.0 | 277.7 | 0.3 | | **503.6** |
| | Smd | 27.5 | 872.5 | 172.5 | 0.3 | | **50.8** |
| *Microchirus ocellatus* | Med | | 4.5 | | | | **1.7** |
| | Smd | | 4.5 | | | | **0.3** |
| *Microchirus variegatus* | Med | | 4.7 | 8.4 | | | **3.1** |
| | Smd | | 3.1 | 4.7 | | | **0.2** |
| *Monochirus hispidus* | Med | | 1.3 | | | | **0.5** |
| | Smd | | 1.3 | | | | **0.1** |
| *Solea solea* | Med | 19.5 | 214.9 | | | | **80.9** |
| | Smd | 19.5 | 75.2 | | | | **4.4** |
| SPARIDAE | | | | | | | |
| *Boops boops* | Med | 132.5 | 1173.0 | 1336.0 | 35.4 | | **671.1** |
| | Smd | 76.4 | 779.8 | 858.5 | 35.4 | | **50.3** |
| *Dentex macrophtalmus* | Med | | 9.2 | | | | **3.4** |
| | Smd | | 7.8 | | | | **0.5** |
| *Dentex marocanus* | Med | | 32.3 | | | | **12.0** |
| | Smd | | 32.3 | | | | **1.9** |
| *Diplodus annularis* | Med | 126.3 | 67.1 | | | | **32.1** |
| | Smd | 64.2 | 30.6 | | | | **1.9** |

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| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| *Diplodus bellottii* | Med | 8154.8 | 430.5 | | | | **624.9** |
| | Smd | 2812.7 | 221.8 | | | | **28.2** |
| *Diplodus cervinus* | Med | 209.5 | | | | | **11.9** |
| | Smd | 209.5 | | | | | **1.9** |
| *Diplodus vulgaris* | Med | 249.5 | 1173.0 | | | | **449.6** |
| | Smd | 99.5 | 831.1 | | | | **48.2** |
| *Lithognathus mormyrus* | Med | 19.8 | | | | | **1.1** |
| | Smd | 19.8 | | | | | **0.2** |
| *Pagellus acarne* | Med | 296.8 | 4657.5 | 39.9 | 183.1 | | **1794.9** |
| | Smd | 242.8 | 2944.4 | 20.9 | 183.1 | | **170.8** |
| *Pagellus bellotii* | Med | 3876.3 | 30.2 | | | | **232.3** |
| | Smd | 1321.8 | 16.3 | | | | **11.8** |
| *Pagellus bogaraveo* | Med | | 5.8 | | 34.7 | | **10.3** |
| | Smd | | 5.8 | | 23.1 | | **0.9** |
| *Pagellus erythrinus* | Med | 255.0 | 794.9 | 17.1 | | | **312.4** |
| | Smd | 244.1 | 391.5 | 17.1 | | | **22.8** |
| *Pagrus pagrus* | Med | | | 118.3 | | | **19.5** |
| | Smd | | | 118.3 | | | **3.0** |
| *Sparus aurata* | Med | 83.3 | | | | | **4.7** |
| | Smd | 83.3 | | | | | **0.7** |
| *Spondyliosoma cantharus* | Med | 295.0 | 2137.3 | 245.6 | | | **850.5** |
| | Smd | 183.5 | 1016.7 | 123.7 | | | **59.0** |
| SQUALIDAE | | | | | | | |
| *Centrophorus granulosus* | Med | | | | | 1963.3 | **339.7** |
| | Smd | | | | | 1963.3 | **53.1** |
| *Deania calcea* | Med | | | | | 1046.7 | **181.1** |
| | Smd | | | | | 1046.7 | **28.3** |
| *Etmopterus pusillus* | Med | | | | | 53.0 | **9.2** |
| | Smd | | | | | 53.0 | **1.4** |
| *Etmopterus spinax* | Med | | | | 1314.2 | 3640.0 | **937.7** |
| | Smd | | | | 755.6 | 2601.1 | **75.5** |
| *Squalus blainvillei* | Med | | | | 1326.1 | | **310.6** |
| | Smd | | | | 1326.1 | | **48.5** |
| STERNOPTYCHIDAE | | | | | | | |
| *Argyropelecus hemigymnus* | Med | | | | 0.7 | 1.2 | **0.4** |
| | Smd | | | | 0.3 | 0.3 | **0.0** |
| *Maurolicus muelleri* | Med | | | 0.7 | 4.0 | | **1.1** |
| | Smd | | | 0.5 | 3.6 | | **0.1** |
| STROMATEIDAE | | | | | | | |
| *Stromateus fiatola* | Med | 136.5 | | | | | **7.8** |
| | Smd | 136.5 | | | | | **1.2** |
| SYNGNATHIDAE | | | | | | | |
| *Hippocampus hippocampus* | Med | | 0.1 | | | | **0.0** |
| | Smd | | 0.1 | | | | **0.0** |

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|---|---|---|---|---|---|---|---|
| TETRAODONTIDAE | | | | | | | |
| *Sphoeroides pachygaster* | Med | | | 961.3 | | | **158.2** |
| | Smd | | | 863.8 | | | **22.2** |
| TORPEDINIDAE | | | | | | | |
| *Torpedo marmorata* | Med | 190.3 | 182.2 | 50.6 | 12.8 | | **89.8** |
| | Smd | 190.3 | 110.9 | 50.6 | 12.8 | | **6.8** |
| TRACHICHTHYIDAE | | | | | | | |
| *Hoplostethus mediterraneus* | Med | | | | | 70.2 | **12.1** |
| | Smd | | | | | 52.8 | **1.4** |
| TRACHINIDAE | | | | | | | |
| *Trachinus draco* | Med | | 240.9 | | | | **89.4** |
| | Smd | | 114.7 | | | | **6.6** |
| TRIAKIDAE | | | | | | | |
| *Galeorhinus galeus* | Med | | | | 1520.0 | | **356.0** |
| | Smd | | | | 1520.0 | | **55.6** |
| TRICHIURIDAE | | | | | | | |
| *Lepidopus caudatus* | Med | | 6.9 | 66.6 | 46.8 | 11.7 | **26.5** |
| | Smd | | 3.6 | 30.7 | 42.3 | 11.7 | **1.8** |
| TRIGLIDAE | | | | | | | |
| *Chelidonichthys lucernus* | Med | 45.0 | 301.5 | 188.0 | | | **145.4** |
| | Smd | 45.0 | 101.1 | 104.0 | | | **6.5** |
| *Chelidonichthys obscurus* | Med | 16.3 | 1014.9 | 770.9 | | | **504.4** |
| | Smd | 16.3 | 470.4 | 416.7 | | | **29.3** |
| *Lepidotrigla cavillone* | Med | | 76.3 | 176.4 | | | **57.4** |
| | Smd | | 47.2 | 139.8 | | | **4.5** |
| *Lepidotrigla dieuzeidei* | Med | | 39.1 | 2022.9 | | | **347.5** |
| | Smd | | 39.1 | 1870.9 | | | **48.1** |
| *Trigla lyra* | Med | | | 11.6 | 4.4 | | **2.9** |
| | Smd | | | 7.5 | 4.4 | | **0.3** |
| *Trigloporus lastoviza* | Med | 73.0 | 47.9 | 102.7 | | | **38.9** |
| | Smd | 73.0 | 16.0 | 65.5 | | | **2.0** |
| URANOSCOPIDAE | | | | | | | |
| *Uranoscopus scaber* | Med | 60.5 | | | | | **3.5** |
| | Smd | 60.5 | | | | | **0.5** |
| ZEIDAE | | | | | | | |
| *Cyttopsis roseus* | Med | | | | | 34.5 | **6.0** |
| | Smd | | | | | 34.5 | **0.9** |
| *Zenopsis conchifer* | Med | | | 1.7 | | | **0.3** |
| | Smd | | | 1.7 | | | **0.0** |
| *Zeus faber* | Med | | | 913.6 | 26.3 | | **156.5** |
| | Smd | | | 798.4 | 26.3 | | **20.5** |

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|---|---|---|---|---|---|---|---|
| *Systellaspis debilis* | Med | | | | 0.1 | 0.3 | **0.1** |
| | Smd | | | | 0.1 | 0.2 | **0.0** |
| ALPHEIDAE | | | | | | | |
| *Alpheus glaber* | Med | 1.8 | 14.9 | 0.1 | 6.8 | 0.5 | **7.3** |
| | Smd | 1.4 | 8.5 | 0.1 | 4.6 | 0.5 | **0.5** |
| ARISTEINAE | | | | | | | |
| *Aristeomorpha foliacea* | Med | | | | | 9.0 | **1.6** |
| | Smd | | | | | 6.1 | **0.2** |
| ATELECYCLIDAE | | | | | | | |
| *Atelecyclus rotundatus* | Med | | 0.7 | | | | **0.2** |
| | Smd | | 0.7 | | | | **0.0** |
| CRANGONIDAE | | | | | | | |
| *Philocheras echinulatus* | Med | | | | 2.2 | 5.3 | **1.4** |
| | Smd | | | | 1.1 | 1.2 | **0.1** |
| *Pontocaris cataphracta* | Med | 3.5 | 3.7 | 1.1 | | | **1.8** |
| | Smd | 2.6 | 2.1 | 0.8 | | | **0.1** |
| *Pontocaris lacazei* | Med | 0.3 | | | | 0.5 | **0.1** |
| | Smd | 0.3 | | | | 0.5 | **0.0** |
| *Pontophilus spinosus* | Med | | | | 0.3 | | **0.1** |
| | Smd | | | | 0.3 | | **0.0** |
| DIOGENIDAE | | | | | | | |
| *Dardanus arrosor* | Med | 5.8 | 5.7 | 26.7 | 73.4 | | **24.0** |
| | Smd | 5.8 | 3.8 | 12.6 | 68.5 | | **2.5** |
| DORIPPIDAE | | | | | | | |
| *Dorippe lanata* | Med | 47.5 | 5.1 | | | | **4.6** |
| | Smd | 28.6 | 3.4 | | | | **0.3** |
| GALATHEIDAE | | | | | | | |
| *Munida intermedia* | Med | | | | 7.2 | 5.8 | **2.7** |
| | Smd | | | | 5.0 | 3.7 | **0.2** |
| *Munida iris* | Med | | 0.3 | 27.1 | 44.6 | 0.5 | **15.1** |
| | Smd | | 0.2 | 27.0 | 19.8 | 0.3 | **1.0** |
| GONEPLACIDAE | | | | | | | |
| *Goneplax rhomboides* | Med | 27.3 | 16.9 | 3.4 | 2.2 | 1.3 | **9.1** |
| | Smd | 25.6 | 5.0 | 2.2 | 1.6 | 0.8 | **0.4** |
| HOMARIDAE | | | | | | | |
| *Nephrops norvegicus* | Med | | | 5.7 | 238.2 | 659.3 | **170.8** |
| | Smd | | | 3.8 | 94.0 | 240.9 | **7.4** |
| HOMOLIDAE | | | | | | | |
| *Homola barbata* | Med | | | | | 10.3 | **1.8** |
| | Smd | | | | | 8.7 | **0.2** |
| LOPHOGASTRIDAE | | | | | | | |
| *Lophogaster typicus* | Med | | 0.1 | 0.1 | 2.2 | | **0.6** |
| | Smd | | 0.1 | 0.1 | 2.2 | | **0.1** |

*Tabla III.- Rendimientos medios (Med) en gr/hora de arrastre y sus errores típicos (Smd)*

| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| MAJIDAE | | | | | | | |
| *Macropodia longipes* | Med | | 0.1 | | | | **0.0** |
| | Smd | | 0.1 | | | | **0.0** |
| *Macropodia longirostris* | Med | | 0.4 | 0.4 | | | **0.2** |
| | Smd | | 0.3 | 0.4 | | | **0.0** |
| *Maja goltziana* | Med | | | | 6.9 | | **1.6** |
| | Smd | | | | 6.9 | | **0.3** |
| PAGURIDAE | | | | | | | |
| *Pagurus alatus* | Med | | | | | 51.7 | **8.9** |
| | Smd | | | | | 41.3 | **1.1** |
| *Pagurus excavatus* | Med | 6.0 | 9.8 | 1.3 | 3.3 | 2.5 | **5.4** |
| | Smd | 3.6 | 2.7 | 1.0 | 1.2 | 2.1 | **0.2** |
| *Pagurus prideauxi* | Med | | 1.7 | | | | **0.6** |
| | Smd | | 1.7 | | | | **0.1** |
| PALINURIDAE | | | | | | | |
| *Palinurus mauritanicus* | Med | | | | | 120.8 | **20.9** |
| | Smd | | | | | 120.8 | **3.3** |
| PANDALIDAE | | | | | | | |
| *Chlorotocus crassicornis* | Med | | 7.9 | 29.6 | 227.9 | 87.8 | **76.4** |
| | Smd | | 4.7 | 10.1 | 48.3 | 24.3 | **1.9** |
| *Plesionika antigai* | Med | | | | 308.8 | 6.2 | **73.4** |
| | Smd | | | | 290.7 | 3.0 | **10.6** |
| *Plesionika edwardsii* | Med | | | 0.1 | 0.3 | | **0.1** |
| | Smd | | | 0.1 | 0.2 | | **0.0** |
| *Plesionika heterocarpus* | Med | | 4.3 | 2147.0 | 148.6 | 2.2 | **390.2** |
| | Smd | | 4.3 | 1452.0 | 65.9 | 1.8 | **37.4** |
| *Plesionika martia* | Med | | | | | 596.5 | **103.2** |
| | Smd | | | | | 423.7 | **11.5** |
| PASIPHAEIDAE | | | | | | | |
| *Pasiphaea multidentata* | Med | | | | 8.0 | | **1.9** |
| | Smd | | | | 8.0 | | **0.3** |
| *Pasiphaea sivado* | Med | | | 0.4 | 1708.0 | 181.5 | **431.5** |
| | Smd | | | 0.4 | 1004.6 | 133.5 | **36.9** |
| PENAEIDAE | | | | | | | |
| *Parapenaeus longirostris* | Med | | 226.9 | 420.9 | 1259.8 | 34.0 | **454.4** |
| | Smd | | 162.6 | 188.2 | 621.8 | 18.1 | **25.1** |
| *Penaeopsis serrata* | Med | | | | 7.3 | 1.3 | **1.9** |
| | Smd | | | | 6.4 | 1.3 | **0.2** |
| *Penaeus kerathurus* | Med | 77.3 | 57.7 | | | | **25.8** |
| | Smd | 60.1 | 45.9 | | | | **2.7** |
| *Solenocera membranacea* | Med | 0.3 | 5.7 | 1.9 | 86.8 | 43.0 | **30.2** |
| | Smd | 0.3 | 4.5 | 1.5 | 28.7 | 8.9 | **1.1** |

***Tabla III.- Rendimientos medios (Med) en gr/hora de arrastre y sus errores típicos (Smd)***

| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| PORCELLANIDAE | | | | | | | |
| *Pisidia longicornis* | Med | | 0.1 | | | | **0.0** |
| | Smd | | 0.1 | | | | **0.0** |
| PORTUNIDAE | | | | | | | |
| *Bathynectes maravigna* | Med | | | | 5.1 | 28.3 | **6.1** |
| | Smd | | | | 3.4 | 12.5 | **0.4** |
| *Liocarcinus depurator* | Med | | 93.7 | 30.3 | 18.4 | 0.7 | **44.2** |
| | Smd | | 38.0 | 13.3 | 10.0 | 0.7 | **2.3** |
| *Macropipus tuberculatus* | Med | | 1.3 | 12.9 | 284.9 | 82.7 | **83.6** |
| | Smd | | 1.3 | 8.4 | 157.2 | 46.0 | **5.9** |
| *Polybius henslowi* | Med | | 1.2 | | | | **0.4** |
| | Smd | | 1.2 | | | | **0.1** |
| PROCESSIDAE | | | | | | | |
| *Processa canaliculata* | Med | 0.3 | 0.1 | | 5.3 | 6.3 | **2.4** |
| | Smd | 0.3 | 0.1 | | 2.1 | 1.9 | **0.1** |
| SERGESTIDAE | | | | | | | |
| *Sergestes arcticus* | Med | | | | 3.6 | 9.7 | **2.5** |
| | Smd | | | | 2.3 | 4.5 | **0.1** |
| *Sergestes robustus* | Med | | | | 0.3 | 3.0 | **0.6** |
| | Smd | | | | 0.2 | 0.8 | **0.0** |
| SQUILLIDAE | | | | | | | |
| *Rissoides polidus* | Med | | | | 2.6 | | **0.6** |
| | Smd | | | | 1.2 | | **0.0** |
| *Squilla mantis* | Med | 1965.3 | 1302.2 | 10.0 | | | **597.0** |
| | Smd | 1159.7 | 827.9 | 10.0 | | | **49.1** |
| THYSANOPODIDAE | | | | | | | |
| *Meganyctiphanes norvegica* | Med | | | | 755.6 | 1.2 | **177.2** |
| | Smd | | | | 549.6 | 1.2 | **20.1** |
| XANTHIDAE | | | | | | | |
| *Xantho incisus* | Med | | 0.1 | | | | **0.0** |
| | Smd | | 0.1 | | | | **0.0** |
| *Xantho sp.* | Med | | | | | 0.5 | **0.1** |
| | Smd | | | | | 0.3 | **0.0** |

*Tabla III.- Rendimientos medios (Med) en gr/hora de arrastre y sus errores típicos (Smd)*

| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| ANOMIIDAE | | | | | | | |
| *Anomia ephippium* | Med | 18.3 | | | | | **1.0** |
| | Smd | 18.3 | | | | | **0.2** |
| APLYSIIDAE | | | | | | | |
| *Aplysia spp.* | Med | | 0.3 | | | | **0.1** |
| | Smd | | 0.3 | | | | **0.0** |
| ARCIDAE | | | | | | | |
| *Anadara diluvii* | Med | | | 148.6 | 4.8 | | **25.6** |
| | Smd | | | 142.4 | 4.8 | | **3.7** |
| BUCCINIDAE | | | | | | | |
| *Buccinum hamphreysianum* | Med | | | | | 0.2 | **0.0** |
| | Smd | | | | | 0.2 | **0.0** |
| CARDITIDAE | | | | | | | |
| *Acanthocardia echinata* | Med | | 3.7 | 0.9 | | | **1.5** |
| | Smd | | 3.7 | 0.9 | | | **0.2** |
| CASSIDAE | | | | | | | |
| *Cassidaria tyrrhena* | Med | | 14.0 | 48.1 | 151.6 | 90.2 | **64.2** |
| | Smd | | 8.3 | 23.2 | 105.1 | 73.0 | **4.4** |
| CYMATIIDAE | | | | | | | |
| *Argobuccinum olearium* | Med | | 6.1 | | 94.1 | 189.5 | **57.1** |
| | Smd | | 6.1 | | 94.1 | 72.0 | **4.0** |
| *Cymatium parthenopus* | Med | | 1.9 | | | | **0.7** |
| | Smd | | 1.9 | | | | **0.1** |
| LOLIGINIDAE | | | | | | | |
| *Alloteuthis media* | Med | 593.8 | 32.1 | 39.0 | 1.4 | | **52.5** |
| | Smd | 495.1 | 21.2 | 17.7 | 1.4 | | **4.6** |
| *Alloteuthis subulata* | Med | 510.3 | 158.1 | 39.7 | | | **94.3** |
| | Smd | 27.5 | 62.1 | 21.2 | | | **3.6** |
| *Loligo forbesi* | Med | | | 252.3 | 74.2 | | **58.9** |
| | Smd | | | 189.9 | 74.2 | | **5.6** |
| *Loligo vulgaris* | Med | 792.0 | 351.5 | 34.6 | | | **181.3** |
| | Smd | 761.0 | 135.2 | 23.1 | | | **10.4** |
| MURICIDAE | | | | | | | |
| *Bolinus brandaris* | Med | 11.0 | 5.5 | | | | **2.7** |
| | Smd | 6.8 | 4.1 | | | | **0.2** |
| MYTILIDAE | | | | | | | |
| *Modiolus martorelli* | Med | 10.8 | | | | | **0.6** |
| | Smd | 10.8 | | | | | **0.1** |
| OCTOPODIDAE | | | | | | | |
| *Benthoctopus ergasticus* | Med | | | | | 1.8 | **0.3** |
| | Smd | | | | | 1.8 | **0.0** |
| *Eledone cirrhosa* | Med | | 253.8 | 2040.7 | 516.3 | 352.2 | **611.9** |
| | Smd | | 198.2 | 522.7 | 115.4 | 155.8 | **18.7** |

***Tabla III.- Rendimientos medios (Med) en gr/hora de arrastre y sus errores típicos (Smd)***

| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| *Eledone moschata* | Med | 60.3 | 1531.5 | 3251.6 | 176.2 | | **1148.3** |
| | Smd | 36.6 | 346.1 | 1252.1 | 132.3 | | **38.2** |
| *Octopus defilippi* | Med | | | | 9.4 | | **2.2** |
| | Smd | | | | 9.4 | | **0.3** |
| *Octopus salutii* | Med | | | | 26.8 | 36.3 | **12.6** |
| | Smd | | | | 26.8 | 36.3 | **1.4** |
| *Octopus vulgaris* | Med | 1328.5 | 17338.5 | 5780.0 | 44.3 | | **7472.2** |
| | Smd | 1328.5 | 6317.2 | 2026.0 | 44.3 | | **370.0** |
| *Scaeurgus unicirrhus* | Med | | | 19.0 | 0.7 | | **3.3** |
| | Smd | | | 12.6 | 0.7 | | **0.3** |
| OMMASTREPHIDAE | | | | | | | |
| *Illex coindetii* | Med | | | 162.3 | 92.3 | | **48.3** |
| | Smd | | | 118.8 | 63.1 | | **3.8** |
| *Todaropsis eblanae* | Med | | 3.1 | 46.3 | 244.9 | 68.2 | **77.9** |
| | Smd | | 3.1 | 31.3 | 92.6 | 45.9 | **3.7** |
| OSTREIDAE | | | | | | | |
| *Ostrea edulis* | Med | | 8.2 | | | | **3.0** |
| | Smd | | 8.2 | | | | **0.5** |
| PECTINIDAE | | | | | | | |
| *Chlamys flexuosa* | Med | 5.0 | | | | | **0.3** |
| | Smd | 5.0 | | | | | **0.0** |
| *Chlamys varia* | Med | | 1.3 | | | | **0.5** |
| | Smd | | 1.3 | | | | **0.1** |
| *Flexopecten flexuosus* | Med | | 0.3 | | | | **0.1** |
| | Smd | | 0.3 | | | | **0.0** |
| PINNIDAE | | | | | | | |
| *Pinna pectinata* | Med | 78.8 | 432.9 | 2660.1 | 24.7 | | **608.7** |
| | Smd | 78.8 | 187.1 | 2302.9 | 20.2 | | **60.2** |
| PLEUROBRANCHIDAE | | | | | | | |
| *Pleurobranchia meckeli* | Med | | 4.4 | | | | **1.6** |
| | Smd | | 4.4 | | | | **0.3** |
| POLYPLACOPHORA | | | | | | | |
| *Chiton olivaceus* | Med | 4.5 | | | | | **0.3** |
| | Smd | 4.5 | | | | | **0.0** |
| PTERIIDAE | | | | | | | |
| *Pteria hirundo* | Med | | | 13.3 | | | **2.2** |
| | Smd | | | 8.6 | | | **0.2** |
| SEPIIDAE | | | | | | | |
| *Sepia elegans* | Med | | 28.1 | 157.9 | 7.3 | | **38.1** |
| | Smd | | 14.1 | 26.6 | 7.3 | | **1.1** |
| *Sepia officinalis* | Med | 657.8 | 2422.2 | 1681.0 | | | **1213.1** |
| | Smd | 311.7 | 646.1 | 731.2 | | | **42.0** |
| *Sepia orbignyana* | Med | | | 23.3 | 14.8 | | **7.3** |
| | Smd | | | 18.8 | 10.2 | | **0.6** |

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| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| SEPIOLIDAE | | | | | | | |
| *Neorossia caroli* | Med | | | | | 80.5 | **13.9** |
| | Smd | | | | | 38.9 | **1.1** |
| *Rondeletiola minor* | Med | 0.3 | 0.1 | 4.0 | 2.6 | | **1.3** |
| | Smd | 0.3 | 0.1 | 3.5 | 1.1 | | **0.1** |
| *Rossia macrosoma* | Med | | | | 54.9 | | **12.9** |
| | Smd | | | | 20.8 | | **0.8** |
| *Sepietta oweniana* | Med | | 0.6 | 4.3 | 10.3 | 0.8 | **3.5** |
| | Smd | | 0.5 | 3.8 | 6.5 | 0.8 | **0.3** |
| *Sepietta sp.* | Med | | 0.6 | 1.3 | 1.3 | | **0.7** |
| | Smd | | 0.4 | 1.3 | 1.1 | | **0.1** |
| *Sepiola sp.* | Med | | 2.1 | | 0.8 | | **1.0** |
| | Smd | | 1.2 | | 0.4 | | **0.1** |
| SEPIOLIIDAE | | | | | | | |
| *Sepiola atlántica* | Med | | 0.1 | | | | **0.0** |
| | Smd | | 0.1 | | | | **0.0** |
| SOLECURTIDAE | | | | | | | |
| *Solecurtus sp* | Med | | 0.5 | | | | **0.2** |
| | Smd | | 0.5 | | | | **0.0** |
| TETHYIDAE | | | | | | | |
| *Tethys fimbria* | Med | | 1.3 | | | | **0.5** |
| | Smd | | 1.3 | | | | **0.1** |
| TEUTHOIDAE | | | | | | | |
| *Abralia veranyi* | Med | | | | 0.6 | | **0.1** |
| | Smd | | | | 0.6 | | **0.0** |
| TURRITELLIDAE | | | | | | | |
| *Turritella spp.* | Med | | 0.1 | | | | **0.0** |
| | Smd | | 0.1 | | | | **0.0** |
| VENERIDAE | | | | | | | |
| *Venus nux* | Med | | 216.5 | 458.7 | 9.8 | | **158.1** |
| | Smd | | 126.7 | 297.5 | 8.4 | | **10.6** |
| VOLUTIDAE | | | | | | | |
| *Cymbium olla* | Med | 183.8 | 70.8 | | | | **36.8** |
| | Smd | 138.3 | 27.5 | | | | **2.0** |
| *Halia priamus* | Med | | | | | 3.0 | **0.5** |
| | Smd | | | | | 3.0 | **0.1** |
| XENOPHORIDAE | | | | | | | |
| *Xenophora crispa* | Med | | | 6.9 | | | **1.1** |
| | Smd | | | 4.6 | | | **0.1** |

***Tabla III.- Rendimientos medios (Med) en gr/hora de arrastre y sus errores típicos (Smd)***

| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| ASTERINIDAE | | | | | | | |
| *Anseropoda placenta* | Med | | 1.1 | | | | **0.4** |
| | Smd | | 1.1 | | | | **0.1** |
| ASTROPECTINIDAE | | | | | | | |
| *Astropecten aranciacus* | Med | | 12.3 | 38.6 | 136.4 | | **42.9** |
| | Smd | | 12.3 | 36.6 | 79.9 | | **3.2** |
| *Astropecten irregularis* | Med | 53.8 | 110.4 | 14.0 | 9.6 | 1.0 | **48.8** |
| | Smd | 25.4 | 25.4 | 5.8 | 3.6 | 0.5 | **1.5** |
| *Astrospartus mediterraneus* | Med | | | | 4.3 | | **1.0** |
| | Smd | | | | 4.3 | | **0.2** |
| BRISSOPSIDAE | | | | | | | |
| *Brissopsis lyrifera* | Med | | 107.9 | 57.3 | | | **49.5** |
| | Smd | | 69.1 | 47.1 | | | **4.2** |
| CIDAROIDEA | | | | | | | |
| *Cidaris cidaris* | Med | | | 2.9 | 1421.6 | 2747.2 | **808.8** |
| | Smd | | | 2.9 | 952.4 | 1542.3 | **54.3** |
| CRINOIDEA | | | | | | | |
| *Antedon mediterranea* | Med | | 1.3 | | | | **0.5** |
| | Smd | | 1.3 | | | | **0.1** |
| CUCUMARIDAE | | | | | | | |
| *Cucumaria elongata* | Med | 2.5 | 0.4 | | | | **0.3** |
| | Smd | 2.5 | 0.4 | | | | **0.0** |
| *Cucumaria tergespina* | Med | 0.5 | 3.9 | 0.9 | | | **1.6** |
| | Smd | 0.5 | 1.3 | 0.6 | | | **0.1** |
| ECHINIDAE | | | | | | | |
| *Echinus acutus* | Med | | 0.6 | 21.4 | 661.1 | 325.7 | **214.9** |
| | Smd | | 0.6 | 21.4 | 474.2 | 168.9 | **17.9** |
| ECHINIIDAE | | | | | | | |
| *Paracentrotus lividus* | Med | 2.0 | 6.6 | | | | **2.6** |
| | Smd | 2.0 | 4.5 | | | | **0.3** |
| *Psamechinus microtuberculat* | Med | 4.3 | 48.2 | | 3.3 | | **18.9** |
| | Smd | 4.3 | 48.2 | | 3.3 | | **2.8** |
| GONIASTERIDAE | | | | | | | |
| *Nymphaster arenatus* | Med | | | | | 1.2 | **0.2** |
| | Smd | | | | | 1.2 | **0.0** |
| HOLOTURIDAE | | | | | | | |
| *Holothuria forskali* | Med | | | 49.7 | | | **8.2** |
| | Smd | | | 49.7 | | | **1.3** |
| *Holoturia sp.* | Med | | 175.1 | 157.0 | 21.4 | 1126.5 | **290.8** |
| | Smd | | 175.1 | 157.0 | 21.4 | 1044.9 | **30.3** |
| *Holoturia tubulosa* | Med | | | | 28.6 | | **6.7** |
| | Smd | | | | 28.6 | | **1.0** |

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| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| OPHIDIASTERIDAE | | | | | | | |
| *Ophidiaster ophidianus* | Med | | | | 1.2 | | **0.3** |
| | Smd | | | | 1.2 | | **0.0** |
| OPHIOLEPIDAE | | | | | | | |
| *Ophiura texturata* | Med | | 1.6 | 1.3 | 2.0 | | **1.3** |
| | Smd | | 1.1 | 1.3 | 2.0 | | **0.1** |
| SPATANGIDAE | | | | | | | |
| *Spatangus purpureus* | Med | | 3353.8 | 2.9 | | | **1245.1** |
| | Smd | | 3353.8 | 2.9 | | | **194.4** |
| STICHOPODIDAE | | | | | | | |
| *Stichopus regalis* | Med | | 38.2 | 141.1 | 138.9 | | **69.9** |
| | Smd | | 38.2 | 107.6 | 123.3 | | **5.7** |
| TOXOPNEUSTIDAE | | | | | | | |
| *Sphaerechinus granularis* | Med | | 58.9 | | | | **21.9** |
| | Smd | | 58.9 | | | | **3.4** |
| *Sphaerodiscus placenta* | Med | | | | | 259.5 | **44.9** |
| | Smd | | | | | 204.6 | **5.5** |

*Tabla III.- Rendimientos medios (Med) en gr/hora de arrastre y sus errores típicos (Smd)*

| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| *Anelido sp* | Med | | 0.7 | | | | **0.2** |
| | Smd | | 0.7 | | | | **0.0** |
| *Briozoo* | Med | | 1.9 | | 1.1 | | **1.0** |
| | Smd | | 1.9 | | 1.1 | | **0.1** |
| *Coral* | Med | | | 3.9 | | | **0.6** |
| | Smd | | | 3.9 | | | **0.1** |
| *Glycera rouxii* | Med | | 0.1 | | | | **0.0** |
| | Smd | | 0.1 | | | | **0.0** |
| *Hidrozoos.* | Med | | 4.3 | 2.6 | 0.6 | | **2.1** |
| | Smd | | 3.6 | 2.6 | 0.6 | | **0.2** |
| *Medusas* | Med | | | 16.3 | | | **2.7** |
| | Smd | | | 16.3 | | | **0.4** |
| *Phyllodoce sp.* | Med | | 66.7 | | | | **24.7** |
| | Smd | | 66.7 | | | | **3.9** |
| ACTINIDAE | | | | | | | |
| *Actinia spp* | Med | | 0.8 | | | | **0.3** |
| | Smd | | 0.6 | | | | **0.0** |
| ALCYONIIDAE | | | | | | | |
| *Alcyonum palmatum* | Med | | 1.2 | 0.1 | 0.3 | | **0.5** |
| | Smd | | 1.2 | 0.1 | 0.3 | | **0.1** |
| ANTEDONIDAE | | | | | | | |
| *Antedon mediterranea* | Med | | 4.6 | 18.4 | | | **4.7** |
| | Smd | | 4.6 | 18.4 | | | **0.5** |
| APHRODITIDAE | | | | | | | |
| *Aphrodite aculeata* | Med | | 27.9 | | | | **10.4** |
| | Smd | | 18.2 | | | | **1.1** |
| *Harmothoë spp.* | Med | | | | | 0.2 | **0.0** |
| | Smd | | | | | 0.2 | **0.0** |
| ARTICULATA | | | | | | | |
| *Gryphus vitreus* | Med | | | | 1.6 | 10.3 | **2.2** |
| | Smd | | | | 1.6 | 9.0 | **0.2** |
| ASCIDIIDAE | | | | | | | |
| *Ascidia sp.* | Med | | 2.2 | | | | **0.8** |
| | Smd | | 2.2 | | | | **0.1** |
| *Phalusia mammillata* | Med | | 100.4 | | | | **37.3** |
| | Smd | | 95.4 | | | | **5.5** |
| CHELONIDAE | | | | | | | |
| *Caretta caretta* | Med | 5175.0 | | | | | **295.1** |
| | Smd | 5175.0 | | | | | **46.1** |
| DENDROPHYLLIDAE | | | | | | | |
| *Balanophyllia europaea* | Med | | | | | 8.0 | **1.4** |
| | Smd | | | | | 5.7 | **0.2** |

***Tabla III.- Rendimientos medios (Med) en gr/hora de arrastre y sus errores típicos (Smd)***

| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| HORMATIIDAE | | | | | | | |
| *Actinauge richardi* | Med | | 6.8 | | 90.1 | 15.5 | **26.3** |
| | Smd | | 6.8 | | 60.7 | 15.5 | **2.3** |
| PENNATULIDAE | | | | | | | |
| *Pennatula rubra* | Med | | 61.7 | 3.6 | 5.6 | | **24.8** |
| | Smd | | 37.5 | 3.6 | 5.6 | | **2.2** |
| PTEROEIDIIDAE | | | | | | | |
| *Pteroides spinosus* | Med | | 255.9 | | 2.7 | | **95.6** |
| | Smd | | 188.9 | | 1.8 | | **11.0** |
| PYROSOMIDAE | | | | | | | |
| *Pyrosoma atlanticum* | Med | | | | | 2.2 | **0.4** |
| | Smd | | | | | 2.2 | **0.1** |
| RHIZOSTOMIDAE | | | | | | | |
| *Rhizostoma pulmo* | Med | | 1.3 | 12.9 | | | **2.6** |
| | Smd | | 1.3 | 12.9 | | | **0.3** |
| SALPIDAE | | | | | | | |
| *Salpa maxima* | Med | 31.8 | 16.6 | 22.9 | | | **11.7** |
| | Smd | 31.8 | 16.6 | 22.9 | | | **1.2** |
| *Salpidae* | Med | | | | 232.1 | 83.3 | **68.8** |
| | Smd | | | | 130.3 | 83.3 | **5.3** |
| SIPUNCULIDAE | | | | | | | |
| *Sipunculido spp.* | Med | | 0.7 | | | | **0.3** |
| | Smd | | 0.7 | | | | **0.0** |
| SPONGIIDAE | | | | | | | |
| *Esponjas* | Med | | 617.0 | | 72.4 | 1167.7 | **448.0** |
| | Smd | | 617.0 | | 70.6 | 1074.5 | **46.1** |
| SUBERITAE | | | | | | | |
| *Suberites domuncula* | Med | | 49.7 | | | | **18.4** |
| | Smd | | 46.8 | | | | **2.7** |
| ULMARIIDAE | | | | | | | |
| *Aurelia aurita* | Med | | | 9.3 | | | **1.5** |
| | Smd | | | 9.3 | | | **0.2** |
| VERETILLIIDAE | | | | | | | |
| *Veretillum cynomonium* | Med | | 65.0 | 12.4 | 36.0 | | **34.6** |
| | Smd | | 29.6 | 12.4 | 36.0 | | **2.2** |

*Tabla III.- Rendimientos medios (Med) en gr/hora de arrastre y sus errores típicos (Smd)*

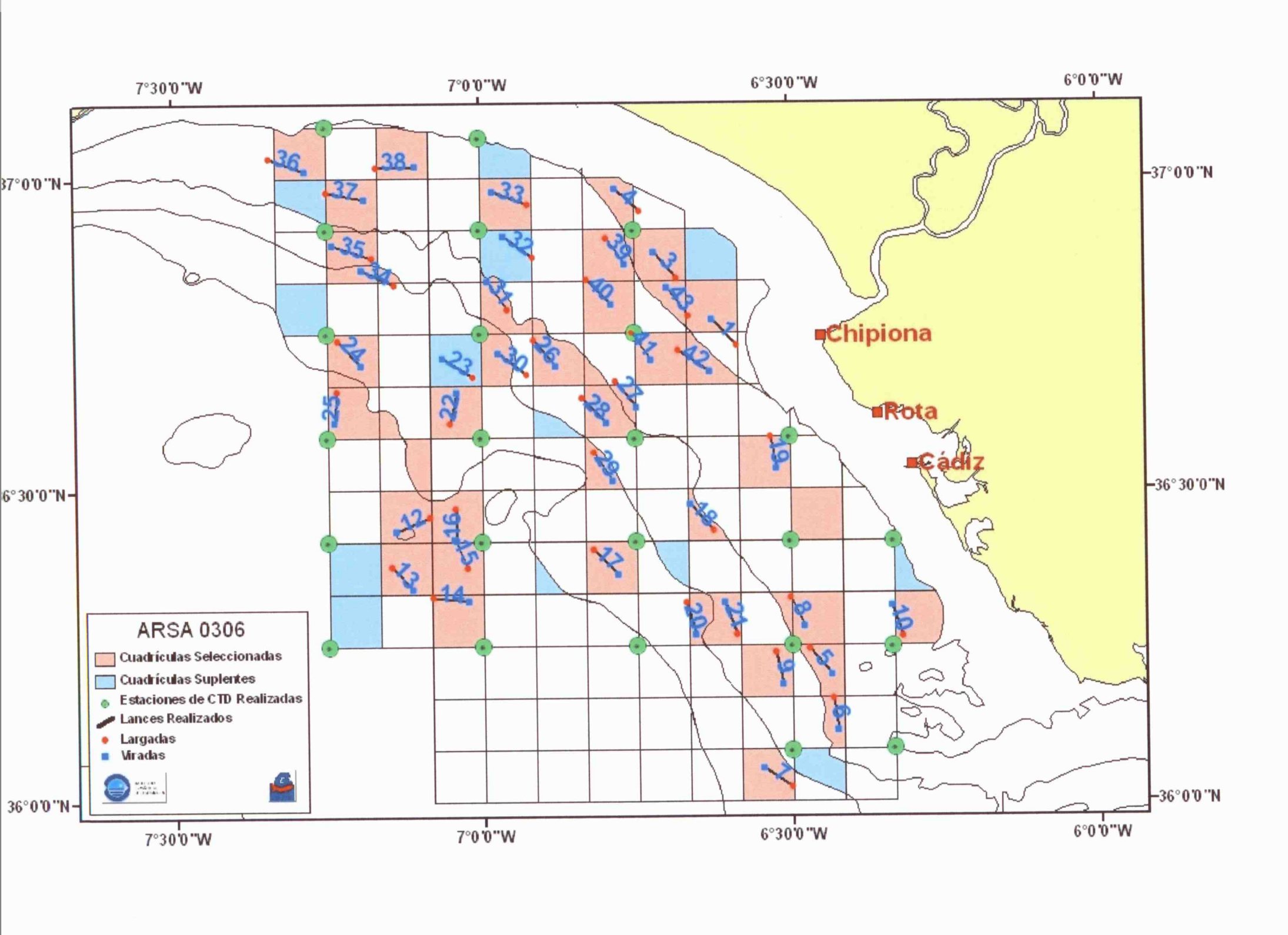
| | | 15- 30 n= 4 | 31- 100 n= 15 | 101- 200 n= 7 | 201- 500 n= 9 | 501- 750 n= 6 | 15- 750 n= 41 |
|---|---|---|---|---|---|---|---|
| *Cabo* | Med | | 17.2 | 10.3 | 3.3 | 14.5 | **11.4** |
| | Smd | | 13.5 | 10.3 | 3.3 | 9.3 | **0.9** |
| *carbón* | Med | | 40.0 | | 145.8 | | **49.0** |
| | Smd | | 40.0 | | 132.4 | | **5.4** |
| *Ceramica* | Med | | 49.0 | | | 434.0 | **93.3** |
| | Smd | | 49.0 | | | 365.0 | **10.3** |
| *Cuero* | Med | | | 9.4 | 17.0 | | **5.5** |
| | Smd | | | 9.4 | 17.0 | | **0.7** |
| *escoria* | Med | 133.5 | 62.3 | 197.4 | 424.4 | 8907.8 | **1704.0** |
| | Smd | 133.5 | 25.2 | 82.3 | 348.8 | 7425.7 | **201.1** |
| *hierro/latas* | Med | 11.3 | 20.0 | 21.9 | 73.0 | 21.0 | **32.4** |
| | Smd | 11.3 | 10.5 | 13.9 | 42.4 | 6.8 | **1.7** |
| *Madera* | Med | | 3.6 | 5.7 | 172.1 | | **42.6** |
| | Smd | | 3.6 | 5.7 | 172.1 | | **6.3** |
| *plasticos* | Med | 121.5 | 163.3 | 34.9 | 102.4 | 168.2 | **126.4** |
| | Smd | 55.4 | 43.1 | 19.6 | 47.4 | 93.9 | **4.0** |
| *Restos de redes y aparejos* | Med | | 2381.4 | 8.6 | | | **885.2** |
| | Smd | | 1254.2 | 8.6 | | | **72.7** |
| *Rizomas* | Med | | | 275.4 | | | **45.3** |
| | Smd | | | 270.8 | | | **7.0** |
| *Telas* | Med | 56.8 | 15.8 | 21.4 | | | **12.6** |
| | Smd | 56.8 | 15.8 | 21.4 | | | **1.2** |
| *vidrio/cristal* | Med | | 23.1 | 113.6 | 45.6 | 100.8 | **55.4** |
| | Smd | | 16.0 | 83.6 | 24.3 | 100.8 | **3.7** |

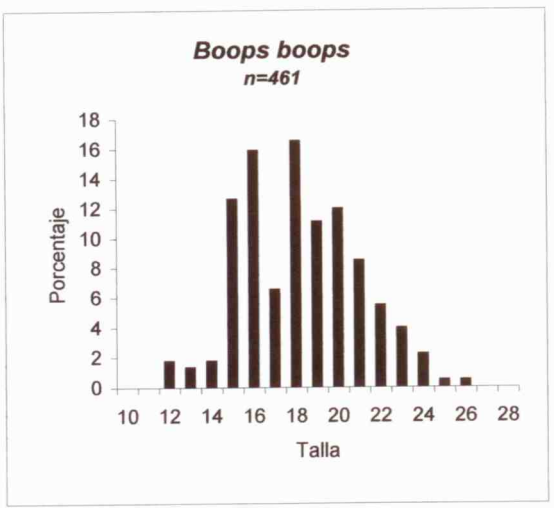
***Tabla III.- Rendimientos medios (Med) en gr/hora de arrastre y sus errores típicos (Smd)***

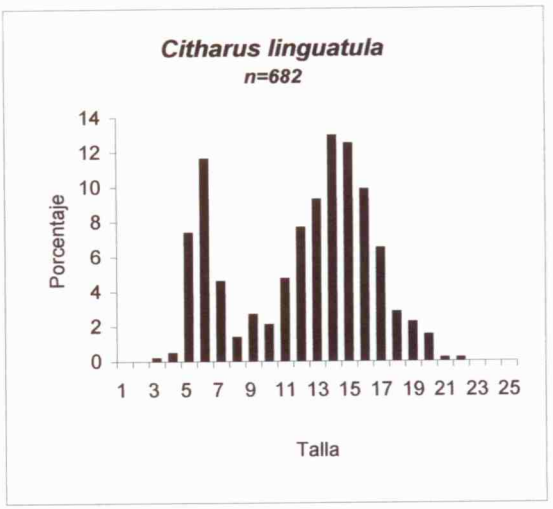
| AÑO | 1993 Marzo | 1994 Marzo | 1995 Marzo | 1996 Abril | 1997 Febrero | 1998 Marzo | 1999 Marzo | 2000 Marzo | 2001 Marzo | 2002 Marzo | 2004 Marzo | 2005 Marzo | 2006 Marzo |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PECES | 52,9 | 60,3 | 187,8 | 103,3 | 53,9 | 52,2 | 55,2 | 56,2 | 56,9 | 82,5 | 51,9 | 65,4 | 60,2 |
| CRUSTACEOS | 3,6 | 3,1 | 1,7 | 4,4 | 3,4 | 2,8 | 8,3 | 4,98 | 4,2 | 3 | 1,9 | 4,2 | 2,6 |
| MOLUSCOS | 9,6 | 12,4 | 12,1 | 11,6 | 8,8 | 12,8 | 8,1 | 17,6 | 17,4 | 12,2 | 6,3 | 9,9 | 12,1 |
| Jurel | 9,2 | 15,6 | 5,5 | 11,6 | 5,8 | 6,3 | 1,2 | 0,3 | 0,36 | 2,9 | 1,70 | 0,39 | 2,20 |
| Rapes | 0,7 | 0,7 | 0,15 | 0,3 | 0,8 | 1,1 | 0,4 | 1,1 | 0,6 | 1,3 | 0,00 | 0,43 | 1,30 |
| Merluza | 3,0 | 3,1 | 5,0 | 7,6 | 3,3 | 2,9 | 3,0 | 3,1 | 6,0 | 2,7 | 3,60 | 10,77 | 2,10 |
| Tonino | 0,9 | 1,4 | 4,3 | 1,6 | 9,2 | 0,6 | 0,8 | 0,04 | 0,14 | 0,5 | 7,10 | 2,20 | 5,00 |
| Acedía | 0,05 | 0,06 | 0,03 | 0,03 | 0,07 | 0,2 | 0,088 | 0,05 | 0,07 | 0,008 | 0,30 | 0,02 | 0,06 |
| Besugo | 0,6 | 0,5 | 1,6 | 3,5 | 1,2 | 0,3 | 1,5 | 0,97 | 1,4 | 2,6 | 0,70 | 0,49 | 1,80 |
| Capros | 1,8 | 4,9 | 82,7 | 27,6 | 1,1 | 0,3 | 0,04 | 0,16 | 0,7 | 0,03 | 0,10 | 0,01 | 0,02 |
| Trompetero | 0,4 | 1,2 | 75,5 | 14,6 | 0,2 | 0,2 | 8,6 | 0,98 | 4,8 | 0,047 | 0,10 | 0,01 | 0,20 |
| Quimera | 4,3 | 2,8 | 0,3 | 5,7 | 4,2 | 3,4 | 3,2 | 2,5 | 2,7 | 3,4 | 2,60 | 3,58 | 4,00 |
| Bacaladilla | 1,1 | 0,3 | 2,6 | 7,5 | 0,07 | 1,1 | 1,2 | 20,1 | 18,4 | 9,2 | 10,10 | 0,26 | 1,10 |
| Zapata | 6,4 | 7,6 | 1,1 | 6,2 | 7,7 | 7,2 | 2,6 | 7,4 | 2,7 | 2,8 | 2,20 | 1,19 | 6,20 |
| Cigala | 0,4 | 0,4 | 0,2 | 0,4 | 0,2 | 0,1 | 0,17 | 0,15 | 0,18 | 0,2 | 0,07 | 0,26 | 0,17 |
| Gamba | 0,08 | 0,5 | 0,7 | 1,2 | 1,2 | 1,1 | 6,4 | 2,9 | 2,2 | 1,8 | 0,11 | 0,49 | 0,46 |
| Langostino | 0,02 | 0,002 | 0,001 | 0,117 | 0,068 | 0,015 | - | - | 0,08 | 0 | 0,01 | 0,00 | 0,02 |
| Galera | 0,8 | 0,044 | 0,009 | 0,03 | 0,04 | 0,25 | 0,114 | 0,02 | 0,14 | 0,05 | 0,19 | 0,13 | 0,60 |
| Pulpeta | 4,2 | 3,4 | 4,4 | 1,8 | 1,4 | 1,8 | 1,9 | 2,5 | 1,2 | 3,5 | 3,20 | 2,80 | 1,80 |
| Pulpo | 1,3 | 4,0 | 1,5 | 1,5 | 0,9 | 0,64 | 1,6 | 8,8 | 1,4 | 3,7 | 0,39 | 2,30 | 7,47 |
| Sepia | 0,4 | 1,2 | 0,4 | 0,3 | 1,6 | 3,9 | 0,34 | 1,5 | 1,3 | 0,3 | 0,44 | 0,93 | 1,20 |

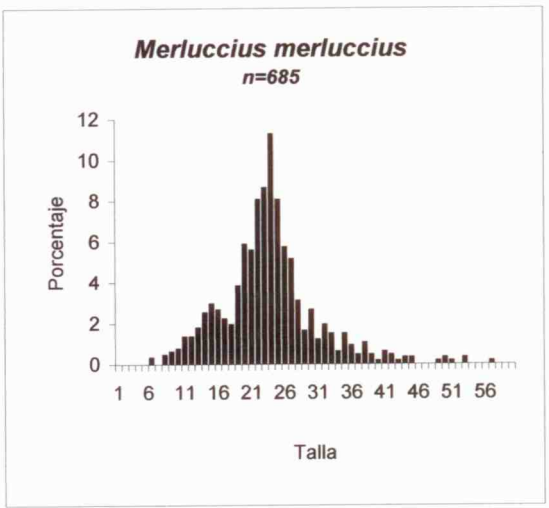
| AÑO | 1997 Noviembre | 1998 Noviembre | 1999 Noviembre | 2000 Noviembre | 2001 Noviembre | 2002 Noviembre | 2003 Noviembre | 2004 Noviembre | 2005 Noviembre |
|---|---|---|---|---|---|---|---|---|---|
| PECES | 135,1 | 91,6 | 79,9 | 38 | 94,7 | 64,3 | 208,2 | 62,0 | 122,4 |
| CRUSTACEOS | 1,8 | 9,6 | 5,08 | 3,2 | 3,9 | 4,2 | 3,0 | 5,3 | 5,2 |
| MOLUSCOS | 21,3 | 43,8 | 11,9 | 11,1 | 17,1 | 8,2 | 5,2 | 13,1 | 18,3 |
| Jurel | 21,8 | 8,6 | 5,1 | 1,7 | 2 | 4,4 | 1,0 | 0,19 | 14,80 |
| Rapes | 0,3 | 1,6 | 0,1 | 0,5 | 0,6 | 0,3 | 0,4 | 0,57 | 1,40 |
| Merluza | 7,1 | 2,7 | 2,7 | 2,0 | 2,6 | 3,4 | 1,6 | 2,72 | 6,90 |
| Tonino | 0,5 | 2,3 | 0,5 | 0,1 | 0,02 | 20 | 164,7 | 0,70 | 5,50 |
| Acedía | 0,05 | 0,007 | 0,03 | 0,01 | 0,09 | 0,06 | 0,04 | 0,08 | 0,05 |
| Besugo | 6,4 | 0,75 | 3,8 | 2,6 | 0,7 | 0,1 | 2,1 | 0,35 | 3,90 |
| Capros | 10,1 | 0,14 | 1,6 | 0,07 | 0,5 | 0,05 | 0,01 | 0,06 | 0,06 |
| Trompetero | 58,3 | 1,23 | 6,6 | 0 | 0,04 | 0,01 | 0,03 | 0,01 | 0,01 |
| Quimera | 2,1 | 6,5 | 2,1 | 0,5 | 1,4 | 0,9 | 1,0 | 3,50 | 5,80 |
| Bacaladilla | 31,5 | 1,6 | 8,1 | 10,8 | 45,9 | 15,1 | 11,3 | 1,97 | 5,30 |
| Zapata | 1,2 | 4,4 | 1,5 | 0,2 | 5,1 | 2,4 | 1,6 | 4,27 | 8,40 |
| Cigala | 0,1 | 0,19 | 0,21 | 0,4 | 0,5 | 0,10 | 0,07 | 0,28 | 0,80 |
| Gamba | 0,9 | 5,9 | 3,4 | 1,7 | 1,7 | 2,10 | 0,24 | 0,31 | 0,80 |
| Langostino | 0,11 | - | 0,002 | 0 | 0,001 | 0,01 | 0,10 | 0,00 | 0,09 |
| Galera | 0,02 | 0,59 | 0,021 | 0,013 | 0,02 | 0,10 | 1,45 | 0,14 | 0,08 |
| Pulpeta | 4,5 | 1,4 | 2,1 | 0,93 | 1,20 | 1,20 | 1,23 | 2,01 | 1,90 |
| Pulpo | 1 | 0,5 | 2,7 | 0,95 | 1,00 | 0,70 | 0,46 | 2,20 | 7,97 |
| Sepia | 7,2 | 0,92 | 1,3 | 1,2 | 1,30 | 1,00 | 1,30 | 0,90 | 2,59 |

Tabla IV. Rendimientos (kg/h) por grupo y especies en las últimas campañas.


7°30'0"W
7°0'0"W
6°30'0"W
6°0'0"W
37°0'0"N
6°30'0"N
36°0'0"N
Chipiona
Rota
Cádiz
ARSA 0306
Cuadrículas Seleccionadas
Cuadrículas Suplentes
Estaciones de CTD Realizadas
Lances Realizados
Largadas
Viradas



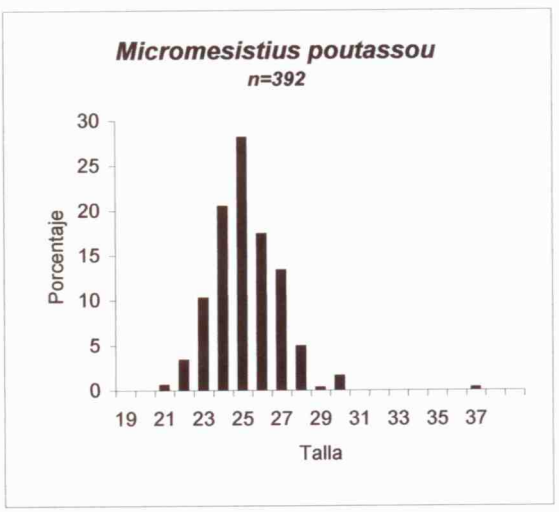
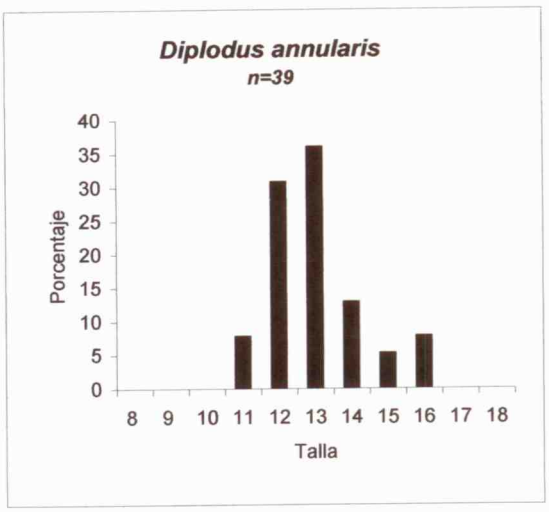
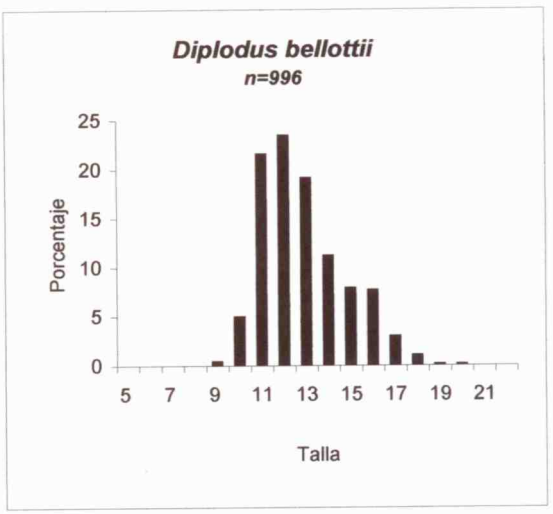
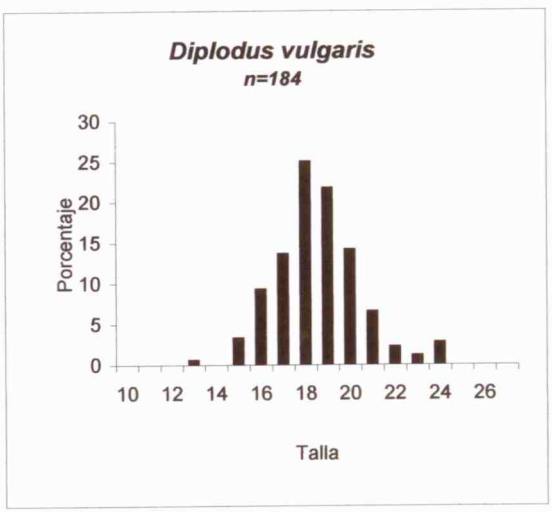




Figura 2.- Distribuciones de frecuencias de tallas de *Boops boops, Citharus linguatula, Merluccius merluccius* y *Micromesistius poutassou.*



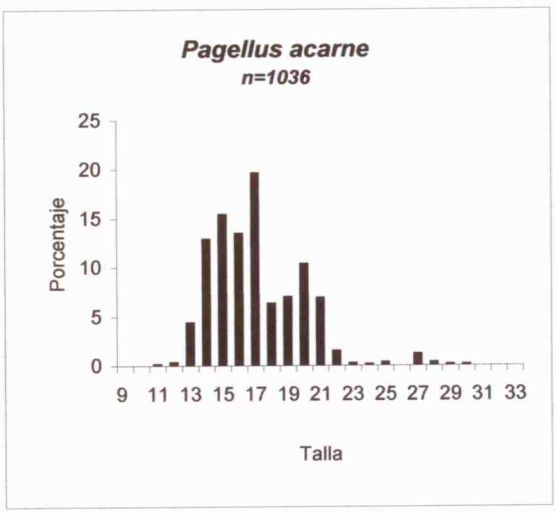
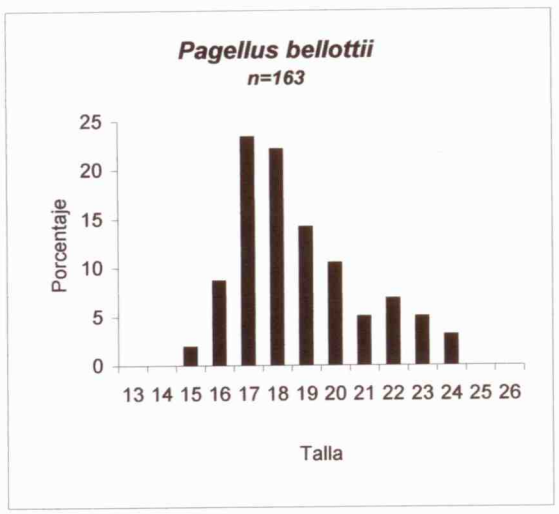
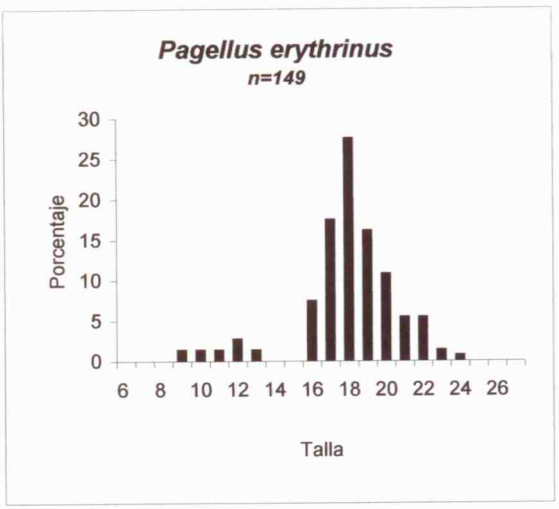
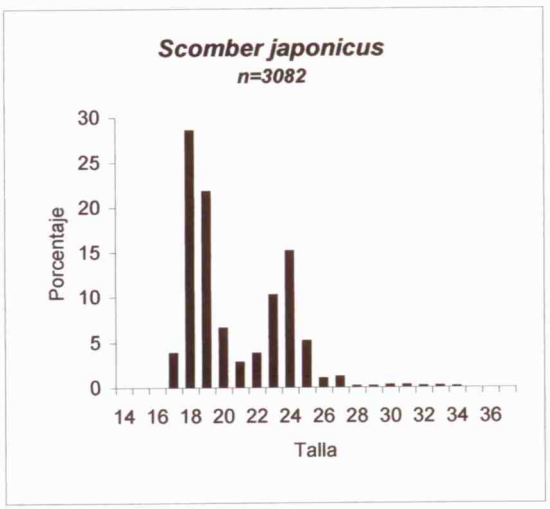




Figura 2 (Continuación).- Distribuciones de frecuencias de tallas de *Diplodus annularis, Diplodus bellottii, Diplodus vulgaris* y *Pagellus acarne*.



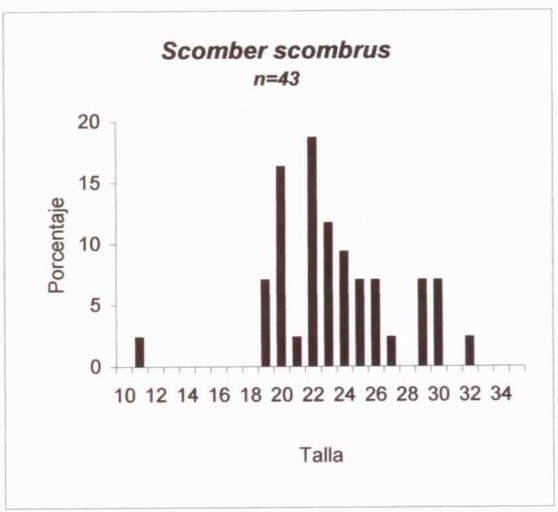
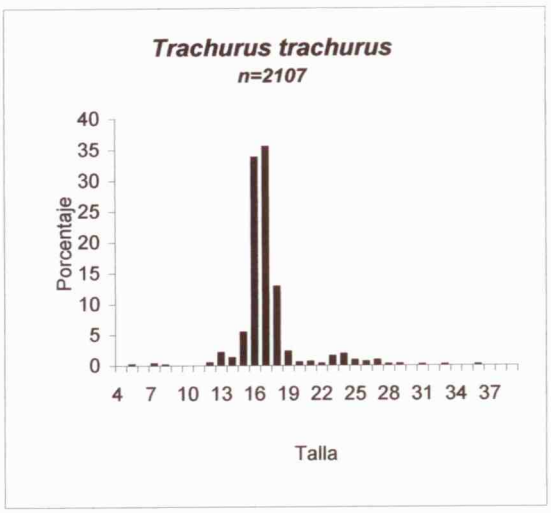
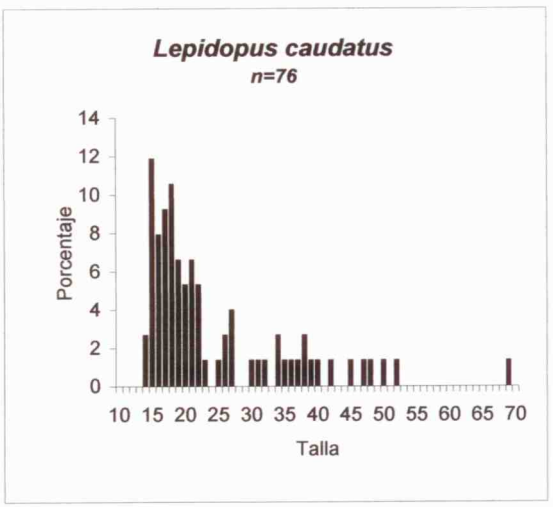
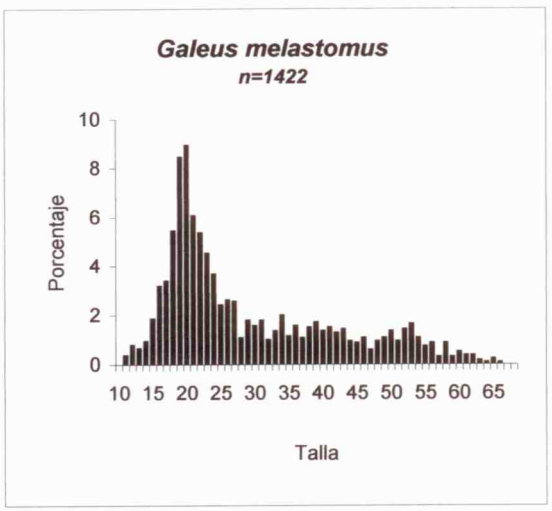




Figura 2 (Continuación).- Distribuciones de frecuencias de tallas de *Pagellus bellottii, Pagellus erythrinus, Scomber japonicus y Scomber scombrus.*



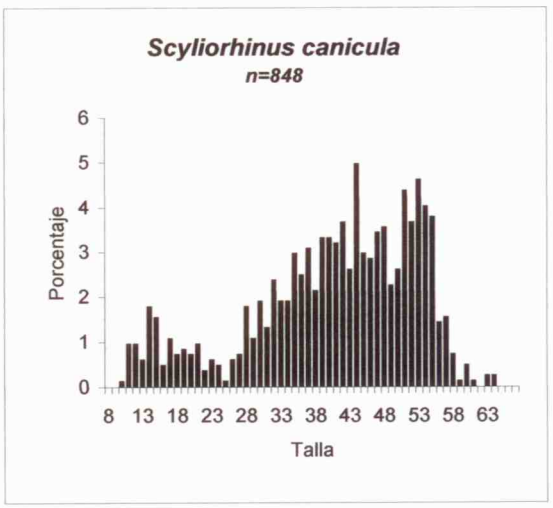
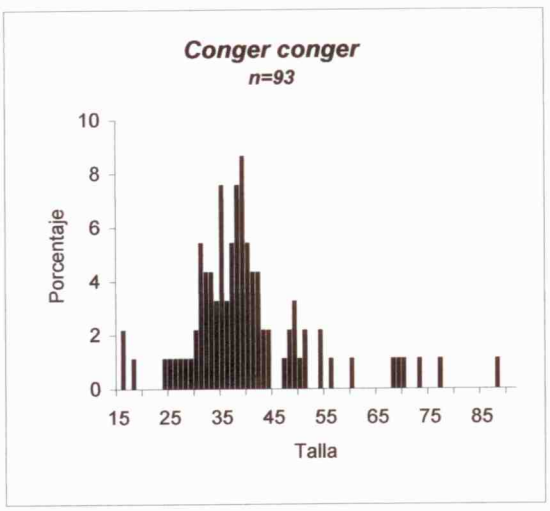
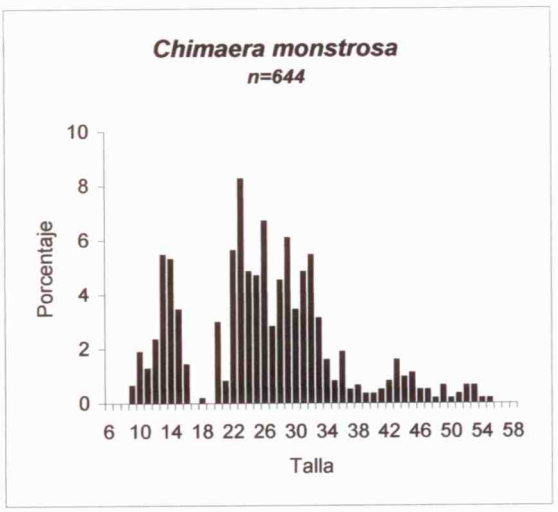
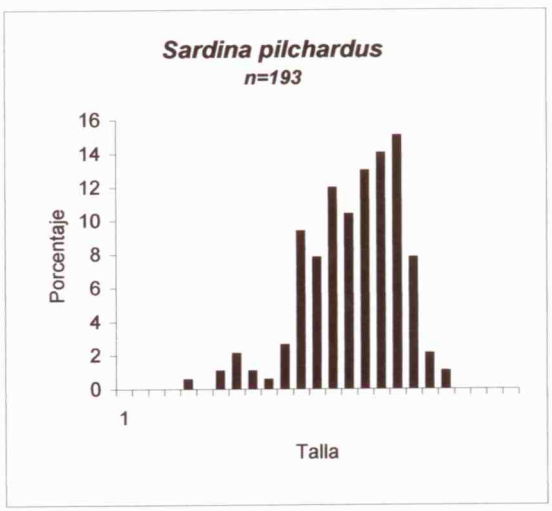




Figura 2 (Continuación).- Distribuciones de frecuencias de tallas de *Trachurus trachurus*, *Lepidopus caudatus, Galeus melastomus y Scyliorhinus canicula.*



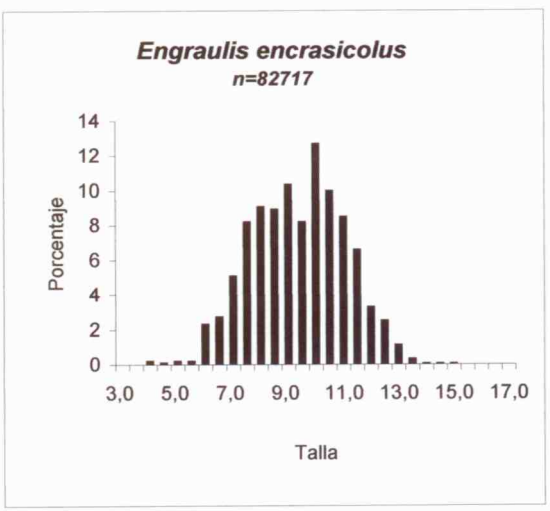
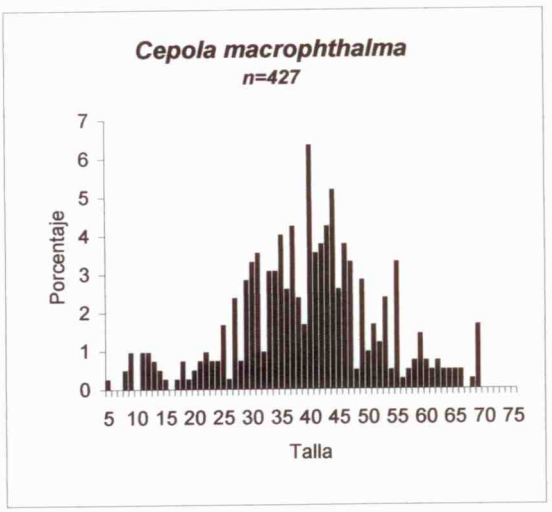




Figura 2 (Continuación).- Distribuciones de frecuencias de tallas de *Conger conger*, *Chimaera monstrosa, Sardina pilchardus y Engraulis encrasicolus.*



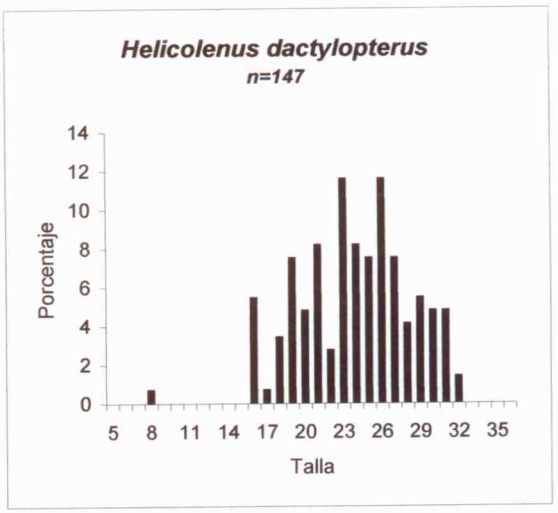
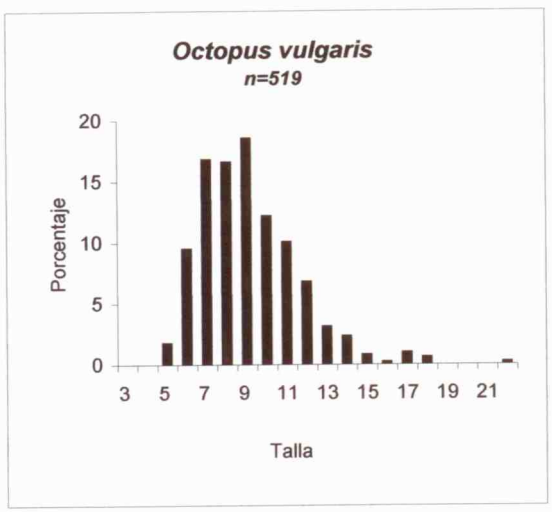
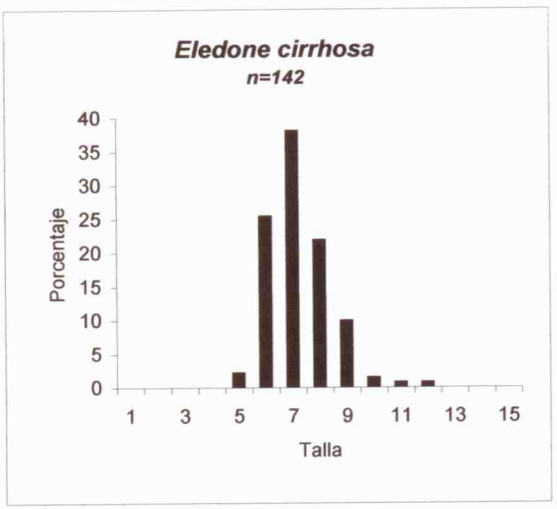
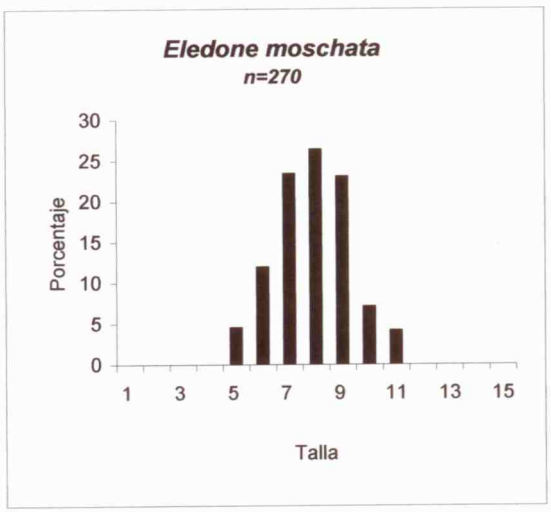




Figura 2 (Continuación).- Distribuciones de frecuencias de tallas de *Cepola macrophthalma* y *Helicolenus dactylopterus.*



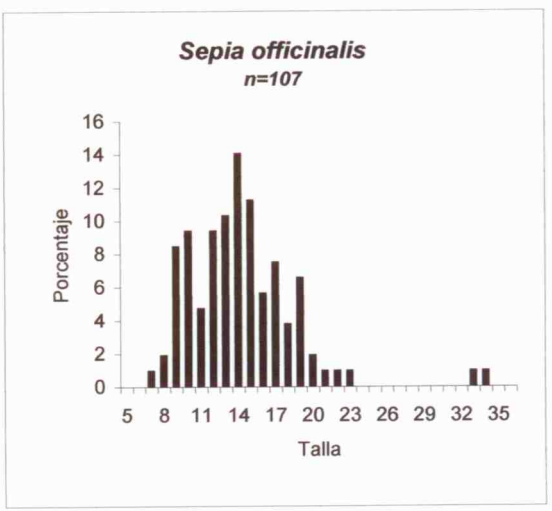
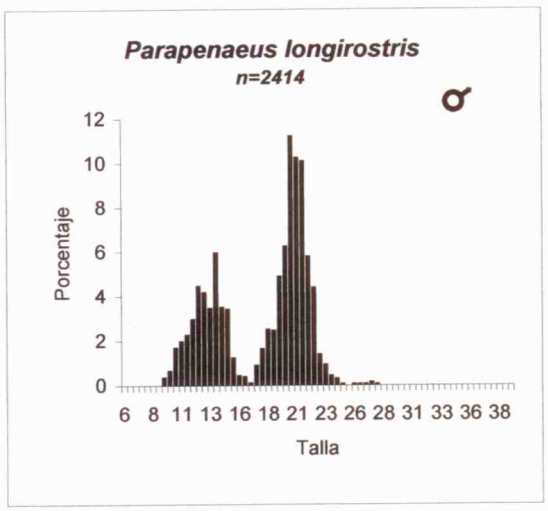
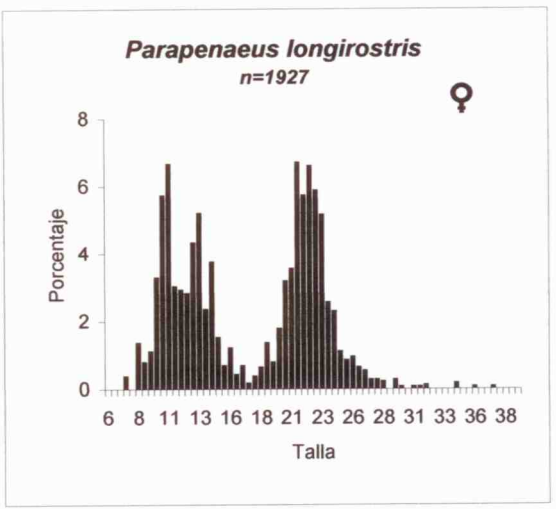
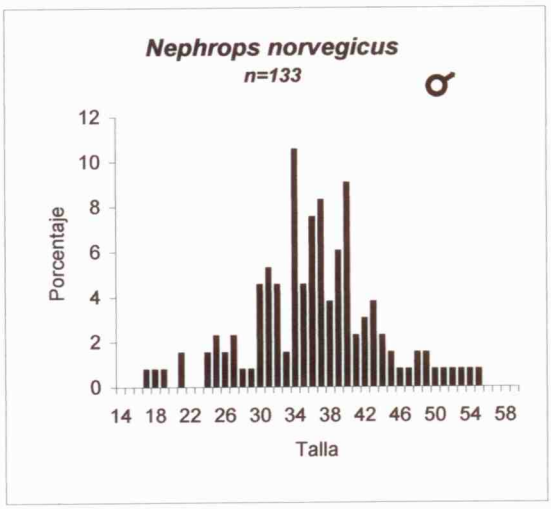




Figura 2 (Continuación).- Distribuciones de frecuencias de tallas de *Octopus vulgaris, Eledone cirrhosa, Eledone moschata* y *Sepia officinalis.*



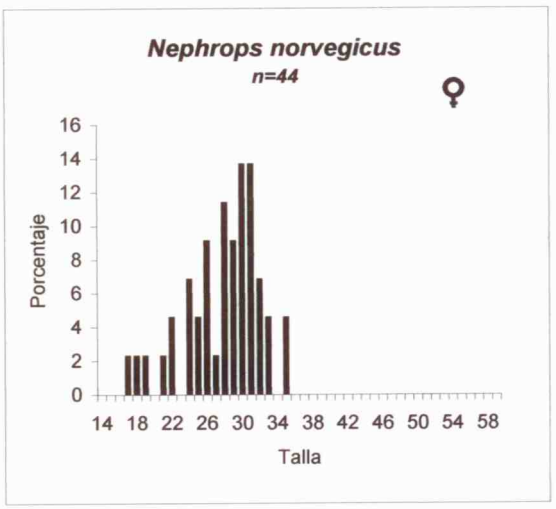




Figura 2 (Continuación).- Distribuciones de frecuencias de tallas de *Parapenaeus longirostris* (para machos y hembras por separado) y *Nephrops norvegicus* (para machos y hembras por separado).