# FALKLAND ISLANDS GOVERNMENT FISHERIES DEPARTMENT 



# FISHERY STATISTICS 

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## FOREWORD

## 1. The Falkland Islands' Fishery - 2009

This year once again demonstrated how volatile fisheries based mainly on short-lived resources such as squid can be. After the two bumper years of 2007 and 2008, Illex did not migrate to Falkland Zones at all in 2009, causing problems for squid fishing companies. The abundance of Loligo was also at low level with a total annual catch of $31,475 \mathrm{t}$. In contrast to this, the most abundant catch $(58,149 \mathrm{t})$ in FICZ/FOCZ was that of rock cod, which has became the most abundant finfish resource in the Falkland fishery over the last three years.

### 1.1. Illex argentinus - Illex squid

Illex stocks are prone to high variability in abundance, bringing instability to its fishery and marketing. The years of 2004 and 2005 were characterized by rather poor abundances of Illex and were followed by three consecutive years (2006-2008) of high abundances. During the 2008 fishery, the Fisheries Department expressed concerns about the status of Illex stocks in 2009 due to much slower growth rates and consequently reduced fecundity because of the colder than usual water temperatures during feeding season in February-May. Together with the possibility of spawning being delayed until August 2008, the decrease in fecundity might lead to quite a significant drop in recruitment abundance for 2009. Nevertheless, fishing companies showed their interest in the Illex fishery, and applied for 46 licenses to fish in Falkland waters.

In the beginning of 2009, there was no indication of the dramatic change in Illex abundance. The temperature regime on the high seas was quite stable throughout January, with sea surface temperatures (SST) being $14-15^{\circ} \mathrm{C}$ on the shelf at $45^{\circ} \mathrm{S}$. Two types of temperature anomalies were observed. To the north of $47^{\circ} \mathrm{S}$ SST had positive anomalies of $1.5-2^{\circ} \mathrm{C}$. The southern part of the Patagonian Shelf including FICZ was characterized by a weak negative anomaly of $-1.0^{\circ} \mathrm{C}$. The warm temperatures on the shelf at $45-47^{\circ} \mathrm{C}$ favoured migrations of Illex outside the Argentinean EEZ. Two trawlers started reporting their catches on the high seas from the second week of January, taking 25-30 t per day. In the middle of the month catches decreased to 13-15 t per day, and then increased again (up to 20 t per day) to the end of the month. The majority of squid belonged to the South Patagonian stock. Squid were mainly 20-22 cm mantle length (ML), with immature females and maturing males. No Illex catches were reported from the FICZ/FOCZ.

For the first time in the last three years, there was a positive anomaly in SST over the Falkland Shelf in February $\left(+1-1.5^{\circ} \mathrm{C}\right)$. The Falkland Current was shifted to the east, which induced the spread of a large in-
flow of warm waters $\left(11-12^{\circ} \mathrm{C}\right)$ from the Argentinean Shelf to the northern part of FICZ. The gradients in SST were observed only on the high seas favouring Illex concentrations there. Three to eight Falkland-registered trawlers fished for Illex on the high seas before the start of the first Loligo season in February. Their catches were quite variable ( 11 to 60 t per day, average 18 t ). This was about a half of that observed during the same period of 2008 when the abundance of Illex was extremely high (average catches were $\sim 30 \mathrm{mt}$ per day). All licensed jiggers preferred to fish on the high seas, without a single day spent in the Falkland waters. As a result, only 1 t of Illex was caught in FICZ as bycatch by the finfish fleet.

Overall, according to the results of the trawl fishery in January-February on the high seas, the abundance of the South Patagonian Stock of Illex in 2008 was moderate. The Falkland Current was shifted eastwards and did not create strong gradients of temperature and salinity in the northern part of FICZ/FOCZ in March. Moderate positive anomalies in SST were observed over the entire Falkland shelf, being very similar to those in the Illex rich year of 2008. So, in this respect there was nothing obvious to prevent squid entering into FOCZ/ FICZ. However, for some reason which was difficult to understand without oceanographic data, squid did not appear in FICZ/FOCZ in March at all. All licensed jiggers carried on fishing on the high seas. Seven jiggers appeared in the northern part of FICZ on 6 March, but did not catch anything and left. Two other jiggers checked the situation on 25 March. After yielding 3 t per night, they also steamed back to the high seas. Catches of Illex by finfish trawlers were miniscule with a total of 30 t caught during the whole month.

Two possible scenarios for the rest of the fishing season were suggested. If waters underneath the surface were cold (as in 2002) squid would not appear in the Falkland Zones at all. If the waters were relatively warm (as in 2007-2008), squid from the Argentinean EEZ would migrate through the northern part of FICZ, but CPUEs would be much lower than in 2007-2008 as the whole abundance of Illex seemed to be 2-3 times lower than in the last two years. Unfortunately, fishing in the following two months proved the first scenario to be true.

In contrast to March with its moderate positive anomalies in SST in the northern part of FICZ, April was characterized by the development of negative SST anomalies. The inflow of shelf waters from the Argentinean EEZ cooled down to $7^{\circ} \mathrm{C}$ and was constantly present throughout the month in the north-western part of FICZ. However, unlike 2007-2008 there was no Illex squid present. The whole B-licensed jigging fleet worked on the high seas, with one to two vessels periodically (11 fishing days) checking the commercial situation in FICZ. The zero Illex catches were obviously not an attractive prospect for the remainder of the fleet. Catches of G-licensed trawlers were in a range of several hundred kilos of Illex per day. In Argentina, the Illex fishery south of $46^{\circ} \mathrm{S}$ was closed on 8 April because of low stock abundance.

The SST in May had a negative anomaly, being quite similar to that in April. However, the warm inflow of shelf waters was still present in the northwest of FICZ. In normal years, the presence of this inflow favoured Illex migrations through the Falkland waters. No squid were present in 2009. All jigging vessels worked on the high seas and never appeared in FICZ/FOCZ in May. As a result, only 1 t of squid was reported as a by-catch by trawlers. The Falkland fishery was closed early on 15th May.

The Illex season of 2009 was virtually non-existent, being the worst in the history of the Falkland fishery with a meager total catch of 45 t . All companies issued with B-licenses were reimbursed, resulting in a significant reduction in Falkland fishing revenues.

### 1.2. Loligo gahi - Patagonian squid

The second most important squid resource, the Patagonian longfin squid Loligo gahi is fished in the eastern and southern parts of the Falkland Shelf in the region called the 'Loligo box'. Two main cohorts of $L$. gahi are usually exploited; the autumn-spawning cohort in February-April and spring-spawning cohort in JulySeptember.

To estimate the level of the Loligo biomass before the first season, a research survey was conducted in the Loligo box on board F/V Castelo between the 9th and 23rd of February 2009. The whole catch of Loligo was 193 tonnes, most of squid ( $94 \%$ ) being caught in the southern area. The highest densities were found to the east and north-east of Beauchêne Island. Squid distribution was different from those observed in the previous two years when Loligo were more concentrated in the northern part of the southern area, and had not yet arrived to the Beauchêne Island area. This suggested that most of the first group of Loligo had migrated to the Loligo box due to positive anomalies in water temperatures. A preliminary estimation of the Loligo biomass was at $16,104 \mathrm{t}$; twice as large as the biomass estimated during the biomass survey in February 2008.

The first season started as usual on $24^{\text {th }}$ February with 16 C-licensed trawlers. All vessels fished to the east and north-east of Beauchêne Island at 140-160 m depths. The catches were reasonable averaging 16-25 t per day (maximum 52 t per day). The squid were mainly immature, about 0.5 cm smaller than in 2008 (mean ML of females 10.6 cm , males 11.6 cm ). The total Loligo catch for the month ( $1,995 \mathrm{t}$ ) was only a half of that observed during the same period of the last year.

In the first week of March, the whole Loligo fleet fished between 150-160 m mainly to the east of Beauchêne Island, yielding average catches of 15-17 t per day. A decreasing trend in catches forced some vessels to move to the northern part of the Loligo box. Dense aggregations of squid were found at much shallower depths ( $95-110 \mathrm{~m}$ ). During the first days of the 'northern fishery' (between 15 and 19 March) catches were high ( $>30 \mathrm{t}$ per day), but these aggregations were quickly depleted (less than 10 t per day by 22 March), and the vessels moved again to the south where the catches remained at low level of 13-15 t per day until the end of the month.

In April, the fleet continued to fish for Loligo in the southern and central areas. Two peaks of abundance occurred in April (7 and 11 April), but the quantities of squid were rather small (average CPUEs of 16 and 20 t per day).

The overall abundance of Loligo this year was at low level, with the total catch for the first season equaling at $12,971 \mathrm{t}$. This catch is the third lowest catch of the autumn-spawning group of Loligo since 2000. The average mantle size of squid in catches was 12.1 cm , similar to the sizes in 2008 and 2007, but greater than in 2006. In-season stock assessment of the escapement biomass was estimated to be $10,500 \mathrm{t}$, close to the $10,000 \mathrm{t}$ escapement limit.

To estimate the biomass of Loligo before the second season, another research survey was conducted in the Loligo box onboard the F/V Baffin Bay between the $30^{\text {th }}$ June and $14^{\text {th }}$ July. Fifty one trawls were conducted with a total Loligo catch of 113 t . Loligo was concentrated in the northern area, with a low abundance in the southern area. The standardized biomass was estimated at $22,830 \mathrm{t}$ being almost the same as before the second seasons of 2006 and 2007.

The second season fishery started as usual on $15^{\text {th }}$ July, with the whole fleet fishing in the northern area. The catches were good (mean 27 t per day). Some vessels checked the southern area, but without success
(7-9 t per day). The first peak in catches occurred on 24-25 th July in both regions (40-50 t per day). Loligo also appeared in the western part of the southern area, migrating from the outside of the Loligo box. The second peak in CPUEs took place only in the southern area (mean 42 t per day) on $29^{\text {th }}$ July. The average size of squid in catches was 11-12 cm of mantle length in the north, and $12-13 \mathrm{~cm}$ in the south. In August, CPUEs gradually decreased from 27-30 $t$ per day during the first week of the month to $10-15 \mathrm{t}$ per day by the end of the month. The decreasing trend in catches carried on to the first week of September, with average CPUEs being only around 10 t per day. The average sizes were 11.9 cm ML for females and 12.9 cm ML for males.

The total catch of Loligo during the second fishing season was $17,873 \mathrm{t}$ with about $60 \%$ being caught in the central and northern parts of the Loligo box. The small contribution of the southern area to the whole catch was consistent with quite low biomass found in this area during the pre-season Loligo survey.

The fishing season closed early on $11^{\text {th }}$ September to preserve the escapement spawning biomass, ensuring it remained above the $10,000 \mathrm{t}$ threshold limit. After updating the stock assessment model with the last 5 days data, the escapement biomass was estimated at $10,000-12,000 \mathrm{t}$. To investigate possible arrivals of new squid groups after the early closure of the fishery, a scientific survey was conducted between 12 and $30^{\text {th }}$ September. Thirty two trawls were made in two successive sample periods to cover the 'Loligo box' and 14 adaptive trawls were also made to intensify sampling in areas of high Loligo density. It was found that squid were more abundant in the northern part of the box. The biomass was estimated to be $6,045 \mathrm{t}$ during the first sample period (11-19 September) and 12,120 $t$ during the second sample period (20-30 September), suggesting that late immigration of a new group of Loligo may have been occurred.

The total annual catch of Loligo in 2009 attained $31,475 \mathrm{t}$ which was the third lowest annual catch in the last decade.

### 1.3. Martialia hyadesi - Martialia squid

No catch of Martialia squid was reported within the FICZ/FOCZ.

### 1.4. Micromesistius a. australis - Southern blue whiting

Traditionally the southern blue whiting fishery has been one of the most important resources in the Falkland Island finfish fishery with annual catches of approximately 25,000 tonnes taken by specialized pelagic vessels as well as by the bottom-trawl finfish fishery.

The downward trend in catches observed since 2007 continued in 2009 with the total annual catch just reaching $10,543 \mathrm{t}$. More than a half of that $(6,580 \mathrm{t})$ was taken by the pelagic fleet targeting post spawning aggregations of southern blue whiting between October and December. Two pelagic vessels (including one surimi trawler) were fishing for southern blue whiting without much success, having historically low catches. One trawler tried to fish in March and April but did not have any success either. The finfish fleet targeted aggregations of southern blue whiting in September - October in the southern part of FICZ. Catches were low with the total catch of the fleet amounting to $3,555 \mathrm{t}$.

Catches in Argentina were at a similar low level with the annual catch reaching 15,900 tonnes. A stock assessment of southern blue whiting was undertaken in 2009 using an age-structured-production model. It included the data from previous stock assessments up to 2004 and also recent catch data collected both in Falkland and Argentinean waters until 2008. The stock assessment showed a continuous downward trend of the
stock since 1993 and a critical condition with the total biomass consisting of $23 \%$ of $B_{0}$. It was recommended to close the spawning grounds for the commercial fishery during spawning time (September - October) and reduce the TAC considerably to allow the stock to recover. These conservation measures will only be effective if similar actions are taken in Argentina.

### 1.5. Macruronus magellanicus - Hoki

Hoki is one of the most abundant pelagic species around South America, migrating in austral winter from their feeding grounds around the Falkland Islands north towards spawning grounds in Argentina and southwest to Chile. After spawning, fish return from their spawning grounds to their feeding grounds. On the other hand a proportion of adult fish and younger fish remain on the feeding grounds throughout the year. The distribution of stock biomass is thus highly variable and difficult to estimate.

After the poor fishing year of 2008, catches in 2009 were very $\operatorname{good}(23,170 \mathrm{t})$. The annual catch was the second highest hoki catch on record after 2002. 6,351 t of this catch were recorded as bycatch (i.e. hoki accounting for less than $40 \%$ of the total catch) in various fisheries. The largest catches were taken in the first half of the year, with high catches (quite unusually) even throughout the austral winter. CPUEs were high in the first half of the year, indicating high abundance of hoki in Falkland waters. The average CPUEs were 1.58 t per hour in targeted hauls with densest aggregations encountered between February and April (average CPUEs of 2.38 t per hour). The highest CPUE (19.1t per hour) was recorded for a surimi vessel in December.

Catches of hoki in the austral summer consisted of an unusually high proportion of young fishes in the north of FICZ, which might indicate that a good recruitment event has taken place between 2006 and 2008. However, overall catches decreased rather than increased in the austral summer, indicating that fish had not migrated back in time from their spawning grounds. This was most likely due to extremely cold weather conditions observed in FICZ in the second half of the year.

### 1.6. Merluccius hubbsi, Merluccius australis - Hakes

Common and Patagonian hakes are highly valuable migratory finfish species on the Patagonian Shelf. Over the years catches of hakes have fluctuated strongly due to variability in the proportion of hake stocks migrating into Falkland waters from the high seas and Argentinean EEZ. Since 2006, the amount of hakes migrating into the FICZ has been considerably larger than in previous years, with 2009 setting a new record with the total annual catch amounting to $13,055 \mathrm{t}$.

Catches were the highest in austral autumn and throughout the austral winter; high catches and densities lasted longer into the year, with vessels still attaining high CPUEs in August in contrast to 2007 when the majority of catches occurred before June. Dense aggregations of hakes were encountered between February and August with average CPUEs of $775 \mathrm{~kg} / \mathrm{hr}$ in "targeted" hauls (i.e. any hauls with more than $30 \%$ hake), while surprisingly the highest CPUEs were encountered in October, up to $1,992 \mathrm{~kg} / \mathrm{hr}$. From the observer reports, general knowledge about fish behaviour, migratory routes and seasons of both common and austral hake, it is possible to deduce that the majority of fish were common hakes (Merluccius hubbsi) while catches of austral hake remained at low level.

As the proportion of the common hake stock migrating to the Falkland waters remains low in comparison its total stock size, the observed increase in catches in recent years does not necessarily imply an increase
in stock biomass but rather a shift in migratory behaviour, likely due to environmental factors. This is a matter of concern because the total hake catches in the Southwest Atlantic have been declining rather than increasing.

### 1.7. Genypterus blacodes - Kingclip

Kingclip is one the of the most valuable by-catch species in the Falkland Islands fishery. It appears to have a seasonal spawning migration in and out of Falkland Islands waters especially in the western parts of the FICZ. They leave in winter and return in early summer with many individuals in post spawning condition. Recently, however, mature females have been found in the northwestern part of FICZ in February which may suggests that kingclip may be batch spawners with extended spawning periods.

The cumulative catch of kingclip reached 3,393 t which makes 2009 the second highest kingclip catch on record after the most productive 2007. As in previous years, the fishing effort in the finfish fishery has remained relatively stable indicating an increase in abundance of kingclip from 2003 onwards. The reasons for this increase in abundance still remain unclear but, similar to common hakes, could be a result of regional changes in oceanography.

Monthly catches increased steadily from January through to May ( $70-437 \mathrm{t}$ ), then decreased in June $(179 \mathrm{t})$ due to a decrease in fishing effort. The same increasing trend in monthly catches was observed from July to October ( $257-548 \mathrm{t}$ ) after which it declined again due to a drop in fishing effort. Most of the large catches were encountered in the western and northern parts of the FICZ.

### 1.8. Salilota australis - Red cod

The total annual catch of red cod reached 5,079 t making it the $9^{\text {th }}$ highest catch on record in the Falkland Zones. As usual the highest catches were taken between August and November when some vessels were targeting pre-spawning, spawning and post spawning aggregations to the west and south west of the Falkland Islands. The other productive months were March and May with 530 t and 603 t respectively.

In assessing stocks for 2009, an Age Structured Production Model (ASPM) was used with the CASAL software. For the ASPM, the $\mathrm{SSB}_{0}$ and $\mathrm{SSB}_{1987}$ were calculated to be $67,850 \mathrm{t}$ and $67,915 \mathrm{t}$ respectively. The final $\mathrm{SSB}_{2008}$ was $18,311 \mathrm{t}$ and therefore $26.98 \%$ of $\mathrm{SSB}_{0}$. Both the CEDA and ASPM models produced similar results for $\mathrm{SSB}_{2002}$ at 17,000 and 18,094 t respectively. The ASPM illustrated a relatively steep decline in both SSB and total biomass from 1987 until 2003. After this SSB seems to remain stable at approximately 17,000 $18,000 \mathrm{t}$ whereas total biomass has increased slightly from $\sim 33,000$ to $39,000 \mathrm{t}$.

Clearly there is a worrying decline in red cod biomass. To identify the red cod spawning grounds, the data on spawning behaviour and distribution were collected over three research cruises in 2005, 2006 and 2007. The results of these cruises enabled us to develop mitigation measures to protect spawning aggregations of red cod for the future, with twelve grid squares in the southwestern part of FICZ being closed to all fishing activities between 1 and 31 October.

### 1.9. Dissostichus eleginoides - Patagonian toothfish

In 2007, the toothfish longline fishery became the first fishery in the Falkland Islands to be managed with TAC, rather than total allowable effort (TAE). The original TAC for 2008 was set at $1,200 \mathrm{t}$, however prior to the end of 2008 the CFL (ITQ holder) requested the bringing forward of $15 \%$ from the next 2009 TAC.

That was allowed and resulted in a new TAC of $1,380 \mathrm{t}$ for 2008. CFL managed to catch $1,368 \mathrm{t}$ and were thus 12 t short of the new TAC. The latter was carried forward to 2009 with a resultant TAC of 1032 t .

Catches were reasonably good throughout the year up until the only longliner CFL Gambler left the fishery on the $10^{\text {th }}$ October for dry dock and maintenance. Daily CPUEs ranged between 0 and 10.94 t per day (mean $=4.3 \mathrm{t}$ ). Prior to the CFL Gambler return to the fishery, the CFL requested bringing forward $10 \%$ from the 2010 TAC, and this was approved. This resulted in a new 2009 TAC of $1,152 \mathrm{t}$. The vessel started to fish again on the $2^{\text {nd }}$ December and for the remainder of the period catches were at a slightly lower level ranging from 0.55 to 6.77 t per day (mean $=3.63 \mathrm{t}$ ). By the end of year, the longliner had caught $1,134 \mathrm{t}$ and therefore were 18 t short of their new TAC, which will be carried over to 2010 .

The cumulative catch for toothfish in 2009 caught in the trawl fishery reached 285 t making it the $6^{\text {th }}$ highest in the last 10 years. Trawlers continued to catch $2+$ and $3+$ year fish on the shelf indicating that 2006 and 2007 were good years for recruitment, the benefits of which, for the longline fishery, may be seen in $6-7$ years time.

During April 2009 the FIFD conducted another experiment on board the CFL Gambler in order to compare the CPUEs of both the umbrella and Spanish longline systems in order to arrive at a factor to enable the use of both data sets in the CPUE time series for stock assessments. The March 2008 longline/umbrella experiment suggested a nonlinear relationship with their CPUEs as the umbrella system was saturated before the longline system when the local toothfish abundance was high. This illustrated that the longline system could outperform the umbrella system when local abundance was high. The experiment in April 2009 used a pair wise allocation of treatments so there would be direct comparison of the two systems. Data from both experiments (2008 and 2009) allowed FIFD to produce a Gamma Distribution model fitted to the ratio of CPUE Umbrella/CPUE Longliner which enabled the use of the umbrella data in stock assessments.

The stock assessment for 2009 was carried out using an ASPM. The MSY estimations varied between $1,130 \mathrm{t}$ and $1,312 \mathrm{t}$, which were close to the current TAC of $1,200 \mathrm{t}$. It was recommended that the TAC remain the same ( $1,200 \mathrm{t})$ for 2010 .

### 1.10. Rajidae - Skates and rays

The year 2009 recorded $5,865 \mathrm{t}$ of skate caught in the Falklands Conservation Zones, the highest total catch since the start of a specific fishery in 1994. Nearly half of the total catch was taken as targeted catch, under ' $F$ ' or ' $R$ ' licenses. As previously, targeted fishing for skate peaked in the third quarter of the year with $1,340 t$ taken by six Korean trawlers and 436 tonnes by two Spanish trawlers. Overall, $76 \%$ of the targeted skate catch was harvested by Korean vessels and $24 \%$ by Spanish vessels. The Spanish vessels had a mean yearly CPUE of $599 \mathrm{~kg} / \mathrm{hr}$ and the Korean vessels had a mean yearly CPUE of $650 \mathrm{~kg} / \mathrm{hr}$. Mean monthly CPUE peaked between June and September for all vessels.

In 2009, 2,941 tonnes of skate were reported as bycatch in various fisheries. Most skate bycatch in 2009 was taken during the first half of the year under 'W'-licence ( $1,181 \mathrm{t}$ ) and ' $A$ '-licence $(1,097 \mathrm{t})$.

Fifteen observer deployments reported a total of 160.4 tonnes of skate catch identified to species. The five most prevalent species comprised $85 \%$ of the total by weight: broadnose skate Bathyraja brachyurops (33.3\%), yellownose skate Dipturus chilensis (19.1\%), grey-tailed skate Bathyraja griseocauda (17.7\%), white spotted skate Bathyraja albomaculata (9.6\%), and cuphead skate Bathyraja scaphiops (5.3\%).

### 1.11. Patagonotothen ramsayi - Rock cod

The annual catch of rock cod reached $58,149 \mathrm{t}$ and was similar to that in the previous year. A total of $44,701 \mathrm{t}$ of medium-sized and large fish (76.9\%) was processed.

Rockcod was targeted mainly by trawlers with finfish licenses ( $52,594 \mathrm{t}$ ) and was also taken as bycatch in other fisheries, particularly during the Loligo trawl fishery (4,418 t). Most of rock cod was caught on the northwestern shelf between 150 and 220 m . Mean daily CPUEs of finfish trawlers peaked up to 20-25 t in January, they gradually decreased to 5-10 t in late July - early September, and then increased again to $15-20 \mathrm{t}$ by the end of December. In 2009, mean daily catch was 13.6 t in contrast to 15.1 t in 2008 and 8.2 t in 2007. Fish size in catches was generally smaller, than in the years 2007 and 2008 that was probably a consequence of heavy exploitation of the stock over the last few years. The possible recruitment of a strong year class can be disregarded as no significant CPUE increase was observed in 2009 compared to 2008.

### 1.12. Macrourus spp., Coelorhynchus spp. - Grenadiers

Grenadiers, Macrourus spp. and C. fasciatus were taken as a bycatch by longliners and trawlers throughout the year. Total longline bycatch was 77.6 t , trawlers took another 145 t . These data did not include the catch taken during an exploratory deep-sea fishery onboard a Spanish trawler in February - March, which accounted for 733 t of the total annual catch of 958 t . The exploratory survey covered the area between $50^{\circ} 05^{\prime}$ S and $53^{\circ} 38^{\prime} \mathrm{S}$ with depths ranging from 512 to 931 m . The spatial distribution of grenadiers in summer was found to be relatively even all over the study area. The entire population had just started to move northwards to the autumn spawning grounds with females becoming relatively more abundant to the north of $52^{\circ} \mathrm{S}$, and males extending the zone of their maximum abundance to almost $51^{\circ} \mathrm{S}$. Before, in winter and spring, grenadiers were aggregated mostly on the southern Falkland slope. Modal sizes of males in catches varied between 20 and 22 cm , those of females between 23 and 27 cm of pre-anal length (PL). Female maturity and GSI increased with their northward migration from southern feeding grounds.

### 1.13. Zygochlamys patagonica - Patagonian scallop

There was no specialized scallop fishery in Falkland waters in 2009. A small by-catch of 13 t was taken by Loligo and finfish fleets.

### 1.14. Eleginops maclovinus - Falkland mullet

The mullet fishery continued at a low level. Fishing occurred from January to the beginning of March and then stopped over the austral winter. Fishing recommenced in September and continued until the end of November. A total of 2.8 tonnes were caught in 6 creeks which was 3.3 tonnes lower than in 2008, however the effort in 2009 was also half that of the previous year. The two most frequently visited creeks were Body Creek and Teal Creek.

### 1.15. Others

Butterfish (Stromateus brasiliensis), redfish (Sebastes oculatus), lobster krill (Munida spp.) and other various squid and fish are included into this category. The total annual catch of each species is shown in table O.7.

## 2. Fisheries Department research cruises in 2009

After reviewing all tender proposals, the commercial fishing trawler Castelo has been chosen as a new research vessel for the Fisheries Department. A few major renovations have been done to the vessel including the installation of a dry lab to accommodate several scientists and installing an oceanographic winch to deploy CTDs.

The south-western part of FICZ was chosen as the study region of the first research cruise on Castelo with main aims: a) to examine distribution and biology of hoki and Patagonian hakes during their post-spawning migrations to Falkland waters, b) to examine distribution and biology of grenadier community in deeper part of the Falkland slope and c) to carry out an oceanographic survey of the area.

The vessel departed Stanley in the afternoon of 17 October, and in the evening made its first trawl and oceanographic station to the east of Lively Island. The following thirteen days of the research cruise were dedicated to the demersal trawl survey of the south-western part of FICZ. The vessel started the survey from the eastern grid squares XVAK and XVAL, then proceeded to fishing northern grid squares and finished the survey in the southern grid squares XUAE and XUAF. Every day, two grid squares of the survey were fished. In each grid square, two trawls were made at random locations, usually one in shallower and one in deeper waters. During the last two days of the survey, four plankton tows were performed just after the dusk, at depths of the main backscattering layer ( $80-100 \mathrm{~m}$ ) and above it ( $25-30 \mathrm{~m}$ ).

After finishing the biomass survey on 29 October, the vessel moved to a deepwater area of the Falkland Trough to the south of Beauchêne Island. Three deepwater trawls were made at depths of 550, 650 and 900 m on $30^{\text {th }}$ October, studying distribution and abundance of deepwater fauna with grenadiers Macrourus carinatus being the dominant species. To compare the demographic structure of juvenile toothfish inhabiting deepwater and shelf regions, three additional trawls were made at $250-350 \mathrm{~m}$ depths to the southeast of Beauchêne Island on $31^{\text {st }}$ October. A good collection of genetic and otolith samples from toothfish were collected from both regions. On $1^{\text {st }}$ November, two shallow water trawls ( $65-70 \mathrm{~m}$ depth) were made in one of the potential Loligo spawning grounds between East Falkland and Sea Lion Islands. Mature and spawning squid of the springspawning cohort together with juvenile squid of the autumn-spawning cohort were sampled. The Castelo arrived in Stanley in the morning of $2^{\text {nd }}$ November. Despite strong winds and rough seas encountered during nine out of sixteen days of the cruise, only a half day was lost due to bad weather.

Mean density $\left(\mathrm{kg} / \mathrm{km}^{2}\right)$ and total biomass was estimated for each abundant species in the area studied, with maximum biomasses represented by rock $\operatorname{cod}(\sim 34,000 t)$ and post-spawning aggregations of red $\operatorname{cod}(\sim 18,000$ t).

## 3. Fisheries Department research contracts in 2009

The Falkland Islands Government's financial year runs from 1 July to 30 June and most external research contracts in the Fisheries Department have these same start and end dates. Contracts completed by the end of June 2009 are presented below. A contract for the years 2008-2010 has been signed with the Renewable Resources Assessment Group (RRAG, Imperial College, London, principal investigator Dr. David Agnew) to provide fisheries management advice and analysis of license fees.

## 3.1. '"Providing satellite sea surface water temperature (SST) data for the area of the Falkland-

 Patagonian shelf between January and May 2009".This research has been carried out by principal investigator Dr. A.M. Sirota of the research company MARSATEC, Kaliningrad, Russia.

The maps of SST were sent to the Fisheries Department three times a week (Monday, Wednesday, Friday) by e-mail. The SST maps were made and transferred using the SURFER-7 Software in colors. They were used for monitoring the Illex distribution during the fishing season.

## 3.2. 'Is genetic isolation of the Loligo gahi populations on the east and west coasts of S. America related to the Peruvian upwelling system or isolation-by-distance?

This work was carried out by Dr. Paul W. Shaw from the Environmental \& Evolutionary Biology Research Group, School of Biological Sciences, Royal Holloway and Bedford New College, University of London, United Kingdom.

Microsatellite DNA markers for population genetic assessment of Loligo gahi were developed to test whether populations of this species around the Falkland Islands represent a single breeding unit or whether they should be considered separately for the purposes of fishery management. In the course of this study, comparison with a sample from Peruvian waters uncovered extensive genetic differences between the Atlantic and Pacific populations of this species, raising the question as to what features could cause the breakdown in effective migration. Local oceanographic and physical features associated with the cold upwelling system on the west coast of South America were suggested as representing a barrier to dispersal/migration in this species. The aim of the present study was to test whether populations to either side of the upwelling region are genetically isolated, or whether the perceived Peru-Falkland divergence results from isolation-by-distance effects between the geographically most remote parts of the species distribution. Samples from Peru and Chile were screened for genetic variation and differentiation at 6 microsatellite DNA markers and one mtDNA gene region (COI), and compared to previously screened samples from Peru and the FICZ.

The main objectives of the study were successfully completed. Genetic variation at the same six microsatellite loci, and a new mtDNA marker, was assessed in 403 individuals from 13 Chilean, Peruvian and Falkland Islands samples. It was shown that levels of genetic variability in L. gahi (number of alleles per locus and observed heterozygosity) were comparable to previous samples from the FICZ, Peru and Chile. Estimates of the betweensample component of genetic variation (FST) across all loci were low, and not significantly different to zero, between the majority of samples within the Peru region and within the Chile-FICZ region (FST $=0.004$ and 0.002 respectively). It was concluded that there was no substantial evidence for genetic differentiation between subpopulations within the two regions, and that there were effectively single genetic populations of L. gahi within Peruvian and Chile-Falkland Islands waters. The hypothesis of an isolation-by-distance effect generating genetic differentiation was rejected within the two regional populations.

Estimates of the between-sample component of genetic variation (FST) across all loci were low but significantly different form zero for all between-region sample comparisons, indicating a significant genetic break between Peruvian and Chile-Falkland L.gahi populations. The barrier to genetic exchange between these two regional populations was identified as lying between $12^{\circ} \mathrm{S}$ and $33^{\circ} \mathrm{S}$ on the Pacific coast of S . America, corresponding to the position of the cold upwelling system here.

A newly developed mitochondrial DNA marker, the COI gene region, revealed haplotypic diversity, characteristic of recently expanded populations of L. gahi, with the northern population probably resulting from a founder/colonization process from the southern population. Patterns in mtDNA haplotype diversity support the genetic differentiation indicated by microsatellite markers, with a distinct divergence between Peruvian and Chilean-Falkland populations.

## 3.3. 'Genetic structuring of hoki populations around the Falkland Islands and southern Chile'.

This work was carried out by Dr. Paul W. Shaw from the Environmental \& Evolutionary Biology Research Group, School of Biological Sciences, Royal Holloway and Bedford New College, University of London, United Kingdom.

The main objectives of the study were successfully completed. Genetic variation at six microsatellite loci, developed previously for hoki (D'Amato et al. 1999), was assessed in 249 individuals from 2 sites in SW Chile and 1 site in the Falkland Islands, plus a temporal replicate sample from the Falklands site. A novel mtDNA marker (Control Region) was successfully developed for hoki, and subset of 101 individuals were tested for sequence variation.

Results are summarised as follows:
Microsatellite locus variation complied with previous studies using the same loci (D'Amato et al. 1999), generating a dataset with sufficient statistical power to test for population genetic differentiation. Haplotype variation at the CR mtDNA locus was extremely high and consistent across samples, and displayed very low nucleotide diversity. Excess haplotype diversity resulted in low statistical power of the mtDNA marker to test for population differentiation, but good power for tests of demographic processes.

Estimates of the between-sample component of genetic variation (FST) across all loci were low (0.002), and not significantly different to zero, between samples within Chile. It is concluded that there is no evidence for genetic differentiation within Chile, although this conclusion is qualified by the apparent temporal instability of gene frequencies within the Falkland Islands site. Further sampling and testing for temporal stability within the Chile population, would be required to confirm the absence of multiple genetic stocks within this region. Estimates of the between-sample component of genetic variation (FST) across all loci were higher (0.005-0.006), and significantly different to zero, between samples from Chile and the Falklands. It is concluded that there is evidence for genetic differentiation around southern S America between southern Chile and the Falkland Islands. Further sampling and testing for temporal stability within and between the Chile / Falklands populations would be required to confirm where barriers to genetic exchange exist.

Estimates of the between-sample component of genetic variation (FST) across all loci were high, for marine fish ( 0.011 ), and significantly different to zero, between the temporal samples taken at the Falklands site. It is concluded that there is a lack of temporal stability in gene frequencies at this site, suggesting the presence of genetically distinct sub-populations in this area (either migrating through at different times of year or being sampled in different proportions from a mixed stock). Further sampling and testing for temporal stability within the Falkland Islands population would be required to confirm the presence of mixed or temporally changing stocks

A newly developed mitochondrial DNA marker, the Control Region, revealed haplotypic diversity, characteristic of recently expanded populations of hoki. Patterns in mtDNA haplotype diversity, although lim-
ited in statistical power, support the genetic differentiation of the autumn Falkland Islands sample from the Chilean and spring Falklands samples.

## 3.4. 'Are early and late autumn recruitment cohorts of Illex argentinus distinct populations? A genetic test using microsatellite DNA markers.

This work was carried out by Dr. Paul W. Shaw from the Environmental \& Evolutionary Biology Research Group, School of Biological Sciences, Royal Holloway and Bedford New College, University of London, United Kingdom.

The main aim of the project was to test for significant genetic differentiation in gene frequencies between geographical and/or temporal samples of I. argentinus, and so test for genetic differences between early and late autumn recruitment cohorts in waters to the north and west of the Falkland Islands. Genetic variation at five microsatellite loci, developed previously for I. argentinus (Adcock et al. 1999a), was assessed in 298 individuals from 15 samples.

Substantial problems were encountered with extraction of high quality DNA from all samples, leading to high failure rates of PCR amplification. Re-extraction of all 658 individuals using a phenol clean-up modification achieved significant improvement in PCR amplification success, but only 298 individuals could be screened successfully for a core of 5 microsatellite loci. Extensive degradation of sample DNA, probably resulting from long-term storage (since 2001), was identified as the source of amplification failure. In the samples that were screened successfully, microsatellite locus variation complied with previous studies using the same loci (Adcock et al. 1999b) and levels of variation were similar amongst all samples: expected heterozygosity (HE) ranged from 0.534 (Ia422) to 0.895 (Ia112); number of alleles ranged from 9 (Ia201) to 21 (Ia112). The global estimate of the between-sample component of genetic variation (FST) across the whole dataset and across all loci was low (0.012) and not significantly different to zero. Pairwise estimates of FST between individual samples ranged from 0.000 to 0.043 , and no values were significantly different from zero. It is concluded that there is no evidence for statistically significant genetic differentiation among samples within the present dataset.

An alternative approach to uncovering genetic sub-structuring within a dataset, Bayesian clusteringbased analysis, was used to test for the presence of mixtures of genetically differentiated subpopulations within samples. STRUCTURE analysis indicated that the most likely number of populations represented within the dataset was 1 , i.e. no sub-structuring or presence of cryptic subpopulations. There was no evidence of significant clusters of individual genotypes. Assignment tests generated low levels of self-classification ( $<10 \%$ for all samples) of individuals to their sample of origin and simulations did not permit any sample to be excluded as a likely source of any individual.

Both sample-based differentiation tests and multiple clustering-based analyses failed to detect any signal of genetic sub-structuring of the sample set, therefore failing to reject the null hypothesis of a single genetically homogeneous population with no evidence of differentiated seasonal spawning populations.

## 4. Reductions in seabird mortality in the Falkland Islands

In 2004 the Falkland Islands Government adopted the National Plan of Action - Seabirds for longliners (NPOA - S). This is currently under review and will pave the way for targets to 2011. The aims of the NPOA - S were to reduce by catch rates to below 0.01 birds/ 1000 hooks by 2004/2005 and to further reduce this level to below 0.002 birds/ 1000 hooks by $2006 / 2007$. Due to considerable effort and the use of a new
longlining method (umbrella method) the mortality was reduced to zero for 2007/2008 and again for 2008/2009. These excellent results were in part due to good 'house keeping' on longliners working in the Falklands zones and included correct line weighting regimes, correctly designed and effective tori lines, the use of the 'Brickle Curtain' and the removal of hooks from by-catch and discards.

The NPOA - Trawlers is also currently under review and will also set targets until 2011. A new tori line designed in 2008 is now being used by trawlers operating in the Falkland Islands. The new lines are essentially shorter, use a different float to stop it travelling and to improve the line tension, and streamer lines are made of different material as well.

## 5. Fishing Effort and Catch Limits for 2009

The limits on Total Allowable Effort (TAE) and Total Allowable Catch (TAC) were set for the 2010 calendar year. 2009 was the second year when this process was conducted by the Fisheries Department rather than RRAG. TAE were calculated as the number of fishing vessel units required to achieve the management objectives by fisheries. TAC was estimated for toothfish.

## 6. Participation in Scientific Workshops, Conferences and Symposia in 2009

### 6.1. ICES International Symposium "Issues confronting deep-sea oceans: the economic, scientific and governance challenges and opportunities of working in deep sea"

The symposium was held in Horta (Faial), Azores, Portugal on 27-30 April 2009 and was broadcasted live on www.tv.azoresglobal.com (watched daily by 200-400 persons worldwide). It was attended by about 170 participants from 26 countries and consisted of opening and closing lectures, everyday's 1-2 plenary lectures, followed by presentations organised in 7 sessions. Participant from FIFD: V. Laptikhovsky. Two oral presentations were given: ‘Deep-sea fishery resources and fisheries around the Falkland Islands’ by V.Laptikhovsky, A.Arkhipkin and P.Brickle, and 'Grenadier fishery and its management in the Southwest Atlantic' by V.Laptikhovsky and A.Arkhipkin.

## 6.2. $4^{\text {th }}$ International Otolith Symposium

The Fourth International Otolith Symposium was held in Monterey, California, USA between $23{ }^{\text {rd }}$ and $28^{\text {th }}$ August 2009. Participants from FIFD: A. Arkhipkin and Z. Shcherbich. Two oral reports were presented at the Symposium: 'Growth in evolutionary exile: morid fishes (Gadiformes) in the Southwest Atlantic' by Shcherbich Zh. N., Brickle P., Arkhipkin A. I.; and 'Thirty years after: state-of-the-art in cephalopod age and growth studies' by A. Arkhipkin.

### 6.3. Cephalopod International Advisory Council (CIAC) Symposium - 2009

The triannual CIAC Symposium was held in Vigo, Spain between $3^{\text {rd }}$ and $11^{\text {th }}$ September 2009. The Symposium was attended by $\sim 160$ delegates from around the globe. Participants from FIFD: A. Arkhipkin and V. Laptikhovsky. Two oral presentations were reported during the Symposium: 'Invasion from the deep: utilisation of shelf resources by deep-sea squid and fish' by A. Arkhipkin and V. Laptikhovsky, and 'Squid as fish
prey in the Patagonian ecosystem of the Southwest Atlantic' by V. Laptikhovsky and A. Arkhipkin. Additionally, A. Arkhipkin was a chairman of the workshop 'Recent advances in age, growth and production estimations in cephalopods'.

### 6.4. XIII European Congress of Ichthyology

The meeting was held in Klaipeda, Lithuania between $6^{\text {th }}$ and $12^{\text {th }}$ September 2009. The conference venue was the Hotel Klaipeda, which was situated in the centre of the city. The conference was attended by P. Brickle, who presented a report entitled 'Life history strategies in the most species rich notothenid genus, Patagonotothen' by P. Brickle, A. Arkhipkin, S. Ramsvatn, N. Anders, V. Laptikhovsky and Z. Shcherbich.

### 6.5. ICES Annual Scientific Meeting - 2009

The ICES Annual Science Conference was held in Berlin, Germany between the $21^{\text {st }}$ and $25^{\text {th }}$ September 2009. Participants from FIFD: I. Payá and J. Brown. Three papers were accepted as oral presentations for the conference. 'Augmentation of length sampling using production by commercial size categories in the Loligo gahi fishery off the Falkland Islands: A simple hierarchical Bayesian model' by Ignacio Paya; 'Progress and future of using CTD loggers in collaborative swept area surveys of Loligo gahi in the Falkland Island: Spatial distribution and biomass estimations' by I. Paya, and 'Initial results of satellite linked archival tagging in the Patagonian toothfish (Dissostichus eleginoides Smitt, 1898) around the Falkland Islands' by J. Brown, P. Brickle and A. Arkhipkin.

## 7. Publications from scientific work carried out in FIG Fisheries Department in 2009

### 7.1. Peer-reviewed publications (appeared in 2009)

Arkhipkin, A.I., Schuchert, P.C., Danyushevsky, L. 2009. Otolith chemistry reveals fine population structure and close affinity to the Pacific and Atlantic oceanic spawning grounds in migratory marine fish southern blue whiting (Micromesistius australis australis). Fisheries Research, 96, 188-194.

Brickle, P., Arkhipkin, A., Laptikhovsky, V.V., Stocks, A.F., Taylor, A. 2009. Resource partitioning by two large planktivorous fishes Micromesistius australis and Macruronus magellanicus in the Southwest Atlantic. Estuarine, Coastal and Shelf Science, 84, 91-98.

Collins, M.A., Laptikhovsky, V., Strugnell J.M. 2009. Expanded description of Opisthoteuthis hardyi based on new specimens from the Patagonian slope. Journal of the Marine Biological Association of the United Kingdom (on line July 2009: doi: 10.1017/S0025315409000988)

Laptikhovsky, V. 2009. Oceanographic factors influencing the distribution of South American fur seal, Arctocephalus australis around the Falkland Islands before the breeding season. Journal of the Marine Biological Association of the United Kingdom, 89, 1597-1600.

Laptikhovsky, V., Arkhipkin, A., Bolstad, K.S. 2009. A second species of the squid genus Kondakovia (Cephalopoda: Onychoteuthidae) from the sub-Antarctic, with new insight into the evolutionary history of the family. Polar Biology, 32, 21-26.

Laptikhovsky, V., Brickle, P. 2009. Aspects of embryonic development in two Southwest Atlantic gadiform fish: Tadpole codling, Salilota australis (Moridae), and southern blue whiting, Micromesistius australis (Gadidae). ACTA Ichthyologica et Piscatoria, 39, 127-131.

Laptikhovsky, V., Pereira, J., Salman, A., Arkhipov, A., Costa, A. 2009. A habitat-dependence in reproductive strategies of cephalopods and pelagophile fish in the Mediterranean Sea. Bolletin Malacologico, 45, 95102 (suppl. 2009).
Laptikhovsky V., Reyes P.R. 2009. Distribution and reproductive biology of a subantarctic deep-sea lobster, the Patagonian lobsterette Thymops birsteini (Zarenkov and Semenov, 1972) (Decapoda, Astacidea, Nephropidae). Journal of Natural History, 43 (1\&2), 35-46.

### 7.2. Technical reports:

Payá, I. 2009. Loligo gahi stock assessment survey, first season 2009. Falkland Islands Government Fisheries Department, Stanley. 44 pp.
Payá, I. 2009. Loligo gahi, first season 2009. Fishery Statistics, Biological Trends, Stock Assessment and Risk Analysis. Falkland Islands Government Fisheries Department, Stanley. 41 pp.

Payá, I. 2009. Loligo gahi stock assessment survey, second season 2009. Falkland Islands Government Fisheries Department, Stanley. 44 pp.

Payá, I. 2009. Loligo gahi, second season 2009. Fishery Statistics, Biological Trends, Stock Assessment and Risk Analysis. Falkland Islands Government Fisheries Department, Stanley. 41 pp.
Payá, I. 2009. Vessel Units and Allowable Effort 2009. Loligo - C licences for Second Season 2009. Falkland Islands Government Fisheries Department, Stanley. 10 pp.
Payá, I. 2009. Vessel Units and Allowable Effort 2010. Loligo - C licences for first Season 2010. Falkland Islands Government Fisheries Department, Stanley. 14 pp.

Payá, I. and A. Winter. 2009. Loligo gahi Stock Assessment Survey, post-Second Season 2009. 27 pp.
Payá, I., P. Schuchert \& P. Brickle. 2009. Vessel Units, Allowable Effort and Allowable Catch, 2010. Falkland Islands Government Fisheries Department, Stanley. 43 pp.

Dr Alexander I. Arkhipkin (Editor), sections 1.1-1.3; 1.15; 2; 3; 6; 7
Dr Paul Brickle, sections 1.7-1.9; 1.13-1.14; 4
Ignacio Paya, sections 1.2;1.9; 1.12 (stock assessment parts); 5
Dr Pia Schuchert, sections 1.4-1.6
Dr Vladimir Laptikhovsky, sections 1.11-1.12
Dr Andreas Winter, section 1.10

## Introduction

Figure A. 1 Chart of the Falkland Islands Interim Conservation and Management Zone (FICZ) and Falkland Islands Outer Conservation Zone (FOCZ)


This chart is illustrative NOT definitive

## Introduction

Table A. 1 Abbreviations for vessel types used in the tables

| FIFD Code | Vessel type |
| :--- | :--- |
| CO | Combination (trawler - jigger) |
| JI | Jigger |
| LO | Longliner |
| PO | Potter |
| TR | Trawler |

Table A. 2 Abbreviations for species names used in the tables

| FIFD Code | FAO Code | Scientific name | Common name |
| :--- | :--- | :--- | :--- |
| BAC | SAO | Salilota australis | Red cod |
| BLU | POS | Micromesistius australis | Southern blue whiting |
| COX** | PAT | Patagonotothen spp | Rock cod |
| GRX** $^{*}$ | RTX | Macrouridae | Grenadiers |
| HAK*** | HKP | Merluccius hubbsi | Common hake |
| KIN | CUS | Genypterus blacodes | Kingclip |
| ILL | SQA | Illex argentinus | Illex squid |
| LOL | SQP | Loligo gahi | Patagonian squid |
| MAR | SQS | Martialia hyadesi | Martialia squid |
| OTH | MZZ/SKX | Osteichthyes/Chondrichthyes Others |  |
| PAT | HKX / HKN | Merluccius spp /australis* | Austral Hake |
| RAY | SRX | Rajidae | Skates and rays |
| TOO | TOP | Dissostichus eleginoides | Patagonian toothfish |
| WHI | GRM | Macruronus magellanicus | Hoki |
| ZYP | ZYP | Zygochlamys patagonica | Scallop |

*     - Merluccius spp. until 2005; M.australis since 2006
** - since 2006, before - in OTH; *** - since 2006, before - in PAT

Table A. 3 Abbreviations for fishing fleets used in the tables

| ISO Alfa-2 code | ISO Alfa-3 code | Fishing Fleet |
| :--- | :--- | :--- |
| AU | AUS | Australia |
| BZ | BLZ | Belize |
| CB* | KHM | Cambodia |
| CL | CHL | Chile |
| CN | CHN | China |
| EE | EST | Estonia |
| ES | ESP | Spain |
| FK | FLK | Falkland Islands |
| FR | FRA | France |
| GH | GHC | Ghana |
| GR | GRC | Greece |
| HN | HDN | Honduras |
| IS | ISL | Iceland |
| IT | ITA | Italy |
| JP | JPN | Japan |
| KR | KOR | Korea |
| NA | NAM | Namibia |
| NO | NOR | Norway |
| PA | PAN | Panama |
| PL | POL | Poland |
| PT | PRT | Portugal |
| RU | RUS | Russia |
| SC | SYC | Seychelles |
| SL | SLE | Sierra Leone |
| TW * | TWN | Taiwan |
| UK | GBR | United Kingdom |
| UR | UKR | Ukraine |
| US | USA | United States of America |
| UY | URY | Uruguay |
| VC | VCT | Saint Vincent |
| VU | VUT | Vanuatu |

[^0]
## Introduction

Table A. 4 Licence types, target species and periods of application 1989-2009

| Licence | Target species | Period of application |
| :---: | :---: | :---: |

First Season

| A | Unrestricted finfish | $1989-2007$ |  |
| :--- | :--- | :--- | :--- |
| B | Illex squid | $1989-1992$ |  |
|  | Illex and Martialia squid |  | $1993-$ |
| C | Patagonian squid (Loligo) |  | $1989-$ |
| F | Skates and rays | $1995-2007$ |  |
| G | Illex squid and restricted finfish* | $1997-$ |  |
| W | Restricted finfish** | $1994-2007$ |  |

Second Season

| R | Skate and rays |  | $1994-2007$ |
| :--- | :--- | :--- | :--- |
| X | All species | 1989-1990 |  |
| Y | Patagonian squid (Loligo) |  | $1991-$ |
| Z | Unrestricted finfish | $1989-2007$ |  |
|  | Restricted finfish** |  | $1989-2007$ |

All year

| A | Unrestricted finfish | $2008-$ |
| :--- | :--- | :--- |
| F | Skates and rays | $2008-$ |
| E | Experimental fishery*** | $1996-$ |
| L | Toothfish (Longliners) | mid $1999-$ |
| S | Blue Whiting and Hoki | $1999-$ |
| W | Restricted finfish** | $2008-$ |

[^1]** Restricted finfish - Main target species:
Micromesistius australis - Southern blue whiting - BLU Macruronus magellanicus - Hoki - WHI.
*** Experimental fishing licences 'E' are issued on an occasional basis to denote exploratory or experimental fishing activities. The 'E' licence included longliners fishing for toothfish up to mid 1999, when the 'L' licence was instituted for this activity. In 2006 the ' $E$ ' licence was used to cover access to the Loligo fishery during the monitoring activities undertaken by single vessels. The Scallop fishery, exploratory trawl fishery for grenadiers and longline fishery for kingclip have also been operating on an E licence.
Table A5 Register of ITQ holding on 28 April 2009

| Quota <br> Owner | Finfish | Scallops | Squid Jig or Trawl Illex argentinus | Squid Loligo gahi (Summer) | Skate | FISHERY <br> Squid and Restricted Finfish | Restricted Finfish Pelagic | Restricted Finfish | Toothfish Longline | Squid Loligo gahi (Winter) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Argos | 8.15\% |  |  | 18.75\% |  | 11.22\% |  | 2.00\% |  | 18.75\% |
| Beauchene | 3.10\% |  |  | 12.97\% |  |  |  | 1.88\% |  | 12.97\% |
| Bold Ventures |  |  |  |  |  | 15.30\% |  | 22.21\% |  |  |
| Byron Holdings | 2.28\% |  |  |  |  | 10.355\% |  | 19.97\% |  |  |
| CFL |  |  |  |  |  |  |  |  | 100\% |  |
| FIG |  |  |  |  |  |  | 70\% |  |  |  |
| Fortuna | 24.96\% |  |  | 27.53\% |  | 0.04\% | 30\% | 0.27\% |  | 27.53\% |
| International Fish |  |  |  |  |  | 2.28\% |  | 2.06\% |  |  |
| J.K. (Marine) |  |  |  |  | 36.80\% |  |  | 0.86\% |  |  |
| Pioneer Seafoods | 7.86\% |  |  |  |  | 2.52\% |  |  |  |  |
| RBC | 38.33\% |  |  | 10.45\% |  | 2.99\% |  | 1.95\% |  | 10.45\% |
| Seafish |  |  |  | 4.40\% | 29.20\% | 14.14\% |  | 19.95\% |  | 4.40\% |
| Seaview |  |  |  | 14.34\% |  |  |  |  |  | 14.34\% |
| SFS |  |  |  |  |  | 10.355\% |  |  |  |  |
| Southern Cross | 4.18\% |  |  | 11.56\% |  | 7.71\% |  | 10.42\% |  | 11.56\% |
| Sulivan Shipping | 11.14\% |  |  |  | 34.00\% | 23.09\% |  | 18.43\% |  |  |
| Total | 100.00\% | 0.00\% | 0.00\% | 100.00\% | 100.00\% | 100.00\% | 100.00\% | 100.00\% | 100.00\% | 100.00\% |
| Note: |  |  |  |  |  |  |  |  |  |  |
| Scallops and Squid Jig/Trawl have yet to enter quota system. |  |  |  |  |  |  |  |  |  |  |
| Figures in italics represent provisional quota which is not transferable. |  |  |  |  |  |  |  |  |  |  |

## Licences

Table B. 1 Licence allocations by licence type and year

| LICENCE | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | 40 | 33 | 17 | 13 | 4 | 10 | 5 | 5 |
| B | 161 | 144 | 170 | 165 | 156 | 164 | 120 | 113 |
| C | 46 | 38 | 16 | 20 | 21 | 22 | 17 | 19 |
| E | 8 | 5 | . | 2 | 1 | 6 | 6 | 5 |
| F | . | . | . | . | . | . | 4 | 5 |
| G | . | . | . | . | . | . | . | . |
| L | . | . | . | . | . | . | . | . |
| R | . | . | . | . | . | 9 | 10 | 11 |
| S | . | . | . | . | . | . | . | . |
| W | . | . | 11 | 16 | 14 | 30 | 29 | 28 |
| X | 23 | 20 | 19 | 23 | 30 | 27 | 23 | 24 |
| Y | 70 | 17 | 15 | 6 | 5 | 10 | 9 | 6 |
| $\underline{\mathbf{Z}}$ | 24 | 35 | 40 | 46 | 43 | 47 | 60 | 43 |
|  | 372 | 292 | 288 | 291 | 274 | 325 | 283 | 259 |
| LICENCE | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| A | 4 | 9 | 11 | 10 | 6 | 6 | 6 | 8 |
| B | 92 | 79 | 86 | 109 | 116 | 125 | 122 | 89 |
| C | 15 | 14 | 17 | 17 | 16 | 17 | 16 | 16 |
| E | 6 | 9 | 8 | 5 | 1 | 1 | 8 | 9 |
| F | . | . | . | 4 | 1 | 9 | 4 | 7 |
| G | 19 | 27 | 30 | 16 | 19 | 19 | 24 | 17 |
| L | . | . | . | 3 | 6 | 6 | 8 | 5 |
| R | 10 | 2 | 8 | 7 | 9 | 8 | 10 | 11 |
| S | . | . | 2 | 3 | 3 | 4 | 3 | 4 |
| W | 9 | 16 | 21 | 11 | 13 | 11 | 23 | 25 |
| X | 21 | 20 | 18 | 15 | 19 | 17 | 18 | 17 |
| Y | 11 | 8 | 8 | 4 | 8 | 8 | 12 | 10 |
| $\underline{\mathbf{Z}}$ | 36 | 27 | 34 | 27 | 18 | 19 | 22 | 22 |
|  | 223 | 211 | 243 | 231 | 235 | 250 | 276 | 240 |
| LICENCE | 2005 | 2006 | 2007 | 2008 | 2009 |  |  |  |
| A* | 9 | 11 | 10 | 23 | 21 |  |  |  |
| B | 70 | 43 | 57 | 44 | 44 |  |  |  |
| C | 17 | 16 | 16 | 17 | 17 |  |  |  |
| E | 11 | 8 | 6 | 4 | 5 |  |  |  |
| F** | 4 | . | 1 | 8 | 8 |  |  |  |
| G | 14 | 20 | 18 | 23 | 27 |  |  |  |
| L | 4 | 6 | 6 | 2 | 1 |  |  |  |
| R | 11 | 11 | 10 | . |  |  |  |  |
| S | 2 | 2 | 2 | 3 | 4 | $\begin{aligned} & *-\mathrm{A}+\mathrm{Y} \text { since } 2008 \\ & * *-\mathrm{F}+\mathrm{R} \text { since } 2008 \\ & * * *-\mathrm{W}+\mathrm{Z} \text { since } 2008 \end{aligned}$ |  |  |
| W*** | 17 | 21 | 14 | 27 | 30 |  |  |  |
| X | 16 | 16 | 17 | 20 | 18 |  |  |  |
| Y | 12 | 16 | 18 | . | . |  |  |  |
| Z | 18 | 24 | 25 | .. | + | $\text { ** *- W + Z since } 2008$ |  |  |
|  | 205 | 194 | 200 | 171 | 179 |  |  |  |

## Licences

Table B. 2 Licence allocations by fishing fleet and year

| Fishing fleet | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BG | 9 | 14 | 8 | 6 | 2 | . | . | . | . | 3 |
| BZ | . | . | . | . | . | . | 1 | . | . | . |
| CL | 1 | 1 | . | 3 | 2 | 8 | 8 | 4 | 3 | . |
| ES | 99 | 72 | 66 | 74 | 74 | 108 | 100 | 69 | 52 | 2 |
| FK | 7 | 4 | 2 | 3 | 3 | 8 | 19 | 37 | 32 | 2 |
| FR | . | . | . | . | . | 5 | 3 | 4 | 2 | . |
| GR | 5 | 3 | . | . | . | . | . | . | . | 64 |
| HN | . | . | 2 | 3 | 4 | 7 | 8 | 2 | . | 43 |
| IS | . | . | . | . | . | . | . | 1 | 3 | 2 |
| IT | 7 | 3 | 2 | 5 | 6 | 3 | 2 | . | . | . |
| JP | 95 | 82 | 77 | 63 | 30 | 36 | 13 | 11 | 19 | . |
| KR | 30 | 32 | 42 | 55 | 60 | 86 | 105 | 112 | 98 | 40 |
| NA | . | . | . | . | . | . | . | . | 3 | 48 |
| NL | 1 | 1 | . | . | . | . | . | . | . | 1 |
| NO | . | 2 | . | . | . | . | . | 1 | 1 | . |
| PA | . | . | 5 | 4 | 3 | 3 | 2 | 3 | . | . |
| PL | 68 | 53 | 40 | 21 | 8 | 8 | 4 | 2 | . | 1 |
| PT | 7 | 7 | 4 | 4 | 3 | 4 | 8 | 4 | . | . |
| RU | . | . | . | . | . | 1 | . | . | . | . |
| SC | . | . | . | . | . | . | . | . | 3 | . |
| SL | . | . | . | 1 | 1 | 1 | . | . | . | 2 |
| TW | 32 | 17 | 39 | 49 | 77 | 43 | 8 | 3 | 3 | 3 |
| UK | 11 | 1 | 1 | . | 1 | 3 | 2 | 5 | 3 | . |
| UR | . | . | . | . | . | 1 | . | . | . | . |
| US | . | . | . | - | - | . | . | 1 | . | . |
|  | 372 | 292 | 288 | 291 | 274 | 325 | 283 | 259 | 223 | 211 |

## Licences

Table B. 2 Licence allocations by fishing fleet and year, continued

| Fishing fleet | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | 3 | . | . | . | . | . | . | . | . | . | . |
| BZ | 2 | 5 | 2 | 2 | 3 | 1 | 1 | . | . | . | . |
| CB | . | 2 | 1 | 1 | 1 | 1 | . | . | . | . | . |
| CL | 3 | 1 | 1 | 1 | 1 | 2 | . | 1 | 2 | 1 | . |
| CN | 4 | 9 | 20 | 25 | 22 | 7 | 3 | 2 | 5 | . | . |
| EE | . | . | . | . | . | 1 | . | 2 |  | . | . |
| ES | 76 | 41 | 45 | 49 | 46 | 47 | 36 | 59 | 65 | 59 | 61 |
| FK | 49 | 47 | 55 | 49 | 80 | 71 | 76 | 69 | 61 | 55 | 55 |
| FR | 2 | 1 | . | . | . | . | . | . | . | . | . |
| GH | . | . | . | . | . | . | . | 1 | . | . | . |
| IS | . | . | . | . | . | . | . | . | . | . | . |
| JP | 20 | 21 | 16 | 22 | 14 | 7 | 2 | 1 | 1 | 1 | 1 |
| KR | 71 | 84 | 67 | 71 | 64 | 61 | 43 | 42 | 42 | 38 | 39 |
| NA | 2 | . | . | , |  | 2 |  | . | . |  |  |
| NZ | . | . | . | . | 1 | . | . |  | . | . | . |
| PA | 2 | . | . | . | . | . | 2 | 1 | 1 | . | 1 |
| PT | . | 1 | . | . | . | . | . | . | . | . | . |
| RU | . | . | 1 | . | 9 | . | . | . | . | , | . |
| TW | 4 | 16 | 22 | 26 | 29 | 33 | 33 | 10 | 19 | 13 | 15 |
| UK | 5 | 3 | 3 | 3 | 4 | 5 | 5 | 4 | 4 | 4 | 6 |
| VC | . | . | 1 | . | . | . | . | . | . | . | . |
| UY | . | . | 1 | 1 | 2 | 2 | 2 | 2 | . | . | . |
| VU | . | . | . | . | . |  | 2 |  | . | . | 1 |
|  | 243 | 231 | 235 | 250 | 276 | 240 | 205 | 194 | 200 | 171 | 179 |

Table B. 3 Licence 'A' (Unrestricted finfish - first season, 1998-2007; both seasons in 2008) allocations by fishing fleet and year

| Fishing | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| fleet | 6 | 3 | 4 | 3 | 2 | 1 | 2 | 3 | 2 | 12 | 11 |
| ES | 6 | 7 | 2 | 3 | 4 | 7 | 7 | 8 | 8 | 10 | 9 |
| FK | 4 | . | . | . | . | . | . | . | . | 1 | 1 |
| UK | 1 | $\mathbf{1 1}$ | $\mathbf{1 0}$ | $\mathbf{6}$ | $\mathbf{6}$ | $\mathbf{6}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 1}$ | $\mathbf{1 0}$ | $\mathbf{2 3}$ |
|  | $\mathbf{2 1}$ |  |  |  |  |  |  |  |  |  |  |

## Licences

Table B. 4 Licence 'B' (Illex squid) allocations by fishing fleet and year

| Fishing fleet | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BZ | 2 | 1 | 1 | 3 | 1 | 1 | - | . | . | . |
| CB | 2 | 1 | 1 | 1 | 1 | . | . | . | . | . |
| CN | 9 | 20 | 25 | 22 | 7 | 3 | 2 | 5 | . | . |
| ES | . | . | . | . | . | . | . | . | . | . |
| FK | . | . | . | . | . | 1 | . | . | . | . |
| GH | . | . | . | . | . | . | 1 | . | . | . |
| JP | 17 | 14 | 19 | 12 | 5 | . | . | . | . | . |
| KR | 63 | 58 | 53 | 46 | 42 | 28 | 29 | 33 | 31 | 29 |
| PA | . | . | . | . | . | 2 | 1 | . | . | 1 |
| RU | . | . | . | 9 | . | . | . | . | . | . |
| TW | 16 | 22 | 26 | 29 | 33 | 33 | 10 | 19 | 13 | 15 |
| VU | . | . | . | . | . | 2 | . | . | . | 1 |
|  | 109 | 116 | 125 | 122 | 89 | 70 | 43 | 57 | 44 | 46 |

Table B. 5 Licence 'C' (Patagonian squid) allocations by fishing fleet and year

| Fishing <br> fleet | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 2 | 2 | 2 | . | . | . | . | . | 1 | 2 |
| FK | 13 | 12 | 14 | 15 | 14 | 16 | 15 | 14 | 15 | 14 |
| FR | 1 | . | . | . | . | . | . | . | $\cdot$ | $\cdot$ |
| NA | . | . | . | . | 1 | . | . | . | . | . |
| PA | . | . | . | . | . | . | . | 1 | . | . |
| UK | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| VC | . | 1 | . | . | . | . | . | . | . | . |
|  | $\mathbf{1 7}$ | $\mathbf{1 6}$ | $\mathbf{1 7}$ | $\mathbf{1 6}$ | $\mathbf{1 6}$ | $\mathbf{1 7}$ | $\mathbf{1 6}$ | $\mathbf{1 6}$ | $\mathbf{1 7}$ | $\mathbf{1 7}$ |

Table B. 6 Licence 'E' (Experimental) allocations by fishing fleet and year

| Fishing fleet | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | . | . | . | . | . | . | . | . | . | . |
| ES | . | . | . | 1 | . | . | 2 | 1 | 2 | 1 |
| FK | 2 | . | . | 5 | 6 | 8 | 4 | 5 | 2 | 2 |
| IS | . | . | . | . | . | . | . | . | . | . |
| KR | 3 | . | . | . | . | . | . | . | . | . |
| UK | . | . | . | . | 1 | 1 | . | . | . | 2 |
| UY | . | 1 | 1 | 2 | 2 | 2 | 2 | . | . | . |
|  | 5 | 1 | 1 | 8 | 9 | 11 | 8 | 6 | 4 | 5 |

## Licences

Table B. 7 Licence 'F' (Skates and rays - first season in 1999-2007, both seasons in 2008-2009) allocations by fishing fleet and year

| Fishing <br> fleet | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BZ | . | . | 1 | . | . | . | . | . |  | . |
| KR | 4 | 1 | 8 | 4 | 7 | 4 | $\cdot$ | . | 6 | 6 |
| ES |  |  |  |  |  |  |  | 1 | 2 | 2 |
|  | $\mathbf{4}$ | $\mathbf{1}$ | $\mathbf{9}$ | $\mathbf{4}$ | $\mathbf{7}$ | $\mathbf{4}$ | . | $\mathbf{1}$ | $\mathbf{8}$ | $\mathbf{8}$ |

Table B. 8 Licence 'G' (Illex squid and restricted finfish) allocations by fishing fleet and year

| Fishing fleet | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EE | . | . | . | . | 1 | . | 1 | . | . | . |
| ES | 12 | 13 | 14 | 15 | 11 | 7 | 13 | 16 | 19 | 22 |
| FK | 4 | 6 | 5 | 9 | 5 | 7 | 6 | 2 | 4 | 5 |
| JP | . | . | . | . | . | . | . | . | . | . |
| NA | - | . | . | . | . | . | . | . | . | . |
| UK | . | . | . | . |  | . |  | . | . |  |
|  | 16 | 19 | 19 | 24 | 17 | 14 | 20 | 18 | 23 | 27 |

Table B. 9 Licence 'L' (Toothfish Longliners) allocations by fishing fleet and year

| Fishing <br> fleet | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | . | . | . | . | . | . | . | 1 | . | . |
| FK | 2 | 6 | 4 | 3 | 4 | 4 | 4 | 4 | 2 | 1 |
| KR | 1 | . | 2 | 4 | 1 | . | 2 | 1 | . | . |
| NZ | . | . | . | 1 | . | . | . | . | . | . |
|  | $\mathbf{3}$ | $\mathbf{6}$ | $\mathbf{6}$ | $\mathbf{8}$ | $\mathbf{5}$ | $\mathbf{4}$ | $\mathbf{6}$ | $\mathbf{6}$ | $\mathbf{2}$ | $\mathbf{1}$ |

Table B. 10 Licence 'R' (Skates and rays - second season) allocations by fishing fleet and year

| Fishing <br> fleet | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BZ | $\cdot$ | 1 | $\cdot$ | . | . | . | . | . |
| ES | 7 | . | . | . | . | . | . | 3 |
| KR | 7 | 8 | 8 | 10 | 11 | 11 | 11 | 7 |
| PA | . | . | . | . | . | . | . | . |
|  | $\mathbf{7}$ | $\mathbf{9}$ | $\mathbf{8}$ | $\mathbf{1 0}$ | $\mathbf{1 1}$ | $\mathbf{1 1}$ | $\mathbf{1 1}$ | $\mathbf{1 0}$ |

## Licences

Table B. 11 Licence 'S' (Blue Whiting and Hoki - surimi vessels) allocations by fishing fleet and year

| Fishing <br> fleet | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | 1 | 1 | 1 | 1 | 2 | . | 1 | 1 | 1 | . |
| FK | . | . | . | . | . | . | . | . | 1 | 3 |
| JP | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
|  | $\mathbf{3}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{2}$ | $\mathbf{2}$ | $\mathbf{1}$ | $\mathbf{3}$ | $\mathbf{4}$ |

Table B. 12 Licence 'W' (Restricted finfish - first season, 1998-2007; both seasons in 2008) allocations by fishing fleet and year

| Fishing fleet | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BZ | 1 | . | . | . | . | . | . |  |  | . |
| EE | . | . | . | . | . | . | 1 | , | . | . |
| ES | 7 | 9 | 9 | 9 | 15 | 8 | 16 | 10 | 20 | 22 |
| FK | 1 | 4 | 2 | 13 | 9 | 8 | 3 | 3 | 5 | 5 |
| KR |  | . | . | . | . | . | . | . | 1 | 2 |
| JP | 2 | - | . | . | . | . | . | . | . | . |
| UK | . | . | . | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | 11 | 13 | 11 | 23 | 25 | 17 | 21 | 14 | 27 | 30 |

Table B. 13 Licence ' X ' (Patagonian squid - second season) allocations by fishing fleet and year

| Fishing <br> fleet | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 2 | 2 | 3 | . | . | . | . | 1 | 3 | 1 |
| FK | 12 | 16 | 13 | 17 | 15 | 15 | 15 | 15 | 16 | 16 |
| FR | $\cdot$ | . | . | . | . | . | . | . | . | . |
| JP | $\cdot$ | . | . | . | . | . | . | . | . | $\cdot$ |
| NA | . | . | . | . | 1 | . | . | . | . | . |
| UK | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | $\mathbf{1 5}$ | $\mathbf{1 9}$ | $\mathbf{1 7}$ | $\mathbf{1 8}$ | $\mathbf{1 7}$ | $\mathbf{1 6}$ | $\mathbf{1 6}$ | $\mathbf{1 7}$ | $\mathbf{2 0}$ | $\mathbf{1 8}$ |

## Licences

Table B. 14 Licence 'Y' (Unrestricted finfish - second season) allocations by fishing fleet and year

| Fishing <br> fleet | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 1 | 2 | 4 | 3 | 3 | 5 | 6 | 11 |
| FK | 2 | 4 | 3 | 8 | 6 | 7 | 10 | 7 |
| RU | . | 1 | . | . | . | . | $\cdot$ | $\cdot$ |
| UK | 1 | 1 | 1 | 1 | 1 | . | . | . |
|  | $\mathbf{4}$ | $\mathbf{8}$ | $\mathbf{8}$ | $\mathbf{1 2}$ | $\mathbf{1 0}$ | $\mathbf{1 2}$ | $\mathbf{1 6}$ | $\mathbf{1 8}$ |

Table B. 15 Licence 'Z' ( Restricted finfish - second season) allocations by fishing fleet and year

| Fishing fleet | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | . | . | . | . | . | . | . | . |
| BZ | 2 | . | . | . | . | . | . | . |
| CL | . | . | . | . | . | . |  | . |
| ES | 14 | 13 | 14 | 16 | 17 | 14 | 19 | 19 |
| FK | 4 | 5 | 5 | 6 | 5 | 3 | 4 | 4 |
| JP | . | . | . | . | . | . | . | . |
| KR | 6 | . | . | . | . | . | . | 1 |
| NA | . | . | . | . | . | . | . | . |
| PA | . | . | . | . | . | . | . | . |
| PT | 1 | . | . | . | . | . | . | . |
| UK | . | . | . | . | . | 1 | 1 | 1 |
|  | 27 | 18 | 19 | 22 | 22 | 18 | 24 | 25 |

## Licences

Table B. 16 Annual revenue (Pounds sterling) by licence type

| LICENCE | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | 537,775 | 485,949 | 300,154 | 191,586 | 119,854 | 537,775 | 485,949 |
| B | 22,723,027 | 20,698,011 | 20,961,399 | 20,865,023 | 14,301,237 | 17,440,342 | 10,867,548 |
| C | 4,028,578 | 5,077,665 | 3,286,308 | 2,904,346 | 3,558,704 | 3,305,953 | 3,473,536 |
| E | 3,000 | 1,000 | . | 12,308 | 12,303 | 163,607 | 196,725 |
| F | . | . | . | . | . | . | 74,214 |
| G | . | . | . | . | . | . |  |
| L | . | . | . | . | . | . | . |
| R |  | . | . | . |  | 140,664 | 431,363 |
| S |  | . | . | . | . |  | . |
| W |  | . | 113,412 | 169,895 | 206,682 | 413,290 | 500,679 |
| X | 377,917 | 613,764 | 572,085 | 959,803 | 1,466,992 | 2,046,655 | 2,173,149 |
| Y | 939,594 | 291,531 | 285,700 | 187,767 | 199,798 | 180,825 | 164,690 |
| $\underline{\text { Z }}$ | 391,332 | 774,666 | 841,843 | 1,222,974 | 1,207,635 | 1,335,812 | 1,920,068 |
|  | 29,001,223 | 27,942,586 | 26,360,901 | 26,513,702 | 21,073,205 | 25,690,547 | 20,348,929 |


| LICENCE | $\mathbf{1 9 9 6}$ | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 300,154 | 191,586 | 186,858 | 247,467 | 264,667 | 153,200 | 229,589 |
| $\mathbf{B}$ | $12,176,224$ | $12,189,748$ | $9,578,864$ | $9,349,734$ | $14,609,416$ | $16,408,604$ | $15,504,408$ |
| $\mathbf{C}$ | $3,915,269$ | $3,489,634$ | $3,694,139$ | $3,840,651$ | $4,063,638$ | $4,515,400$ | $4,495,703$ |
| $\mathbf{E}$ | 107,022 | 180,956 | 460,752 | 471,163 | 190,113 | 0 | 0 |
| $\mathbf{F}$ | 117,243 | . | . | 0 | 83,714 | 41,311 | 218,114 |
| $\mathbf{G}$ | . | 654,702 | 900,493 | $1,321,513$ | 755,274 | $1,001,852$ | $1,176,222$ |
| $\mathbf{L}$ | . | . | . | 0 | 237,250 | 581,856 | 581,856 |
| $\mathbf{R}$ | 446,767 | 429,579 | 73,733 | 452,362 | 252,959 | 405,492 | 221,071 |
| $\mathbf{S}$ | $\cdot$ | $\cdot$ | . | 326,903 | 980,410 | 914,033 | 792,191 |
| $\mathbf{W}$ | 842,504 | 590,818 | 868,281 | 872,436 | 418,455 | 303,832 | 268,804 |
| $\mathbf{X}$ | $2,297,557$ | $1,745,260$ | $2,157,595$ | $1,802,191$ | $1,596,130$ | $2,014,142$ | $1,759,362$ |
| $\mathbf{Y}$ | 174,748 | 284,846 | 327,707 | 235,446 | 276,522 | 375,871 | 384,723 |
| $\mathbf{Z}$ | $1,536,543$ | $1,474,175$ | $1,329,126$ | $1,262,615$ | $1,051,854$ | 969,460 | 920,040 |
|  | $\mathbf{2 1 , 9 7 7 , 2 4 2}$ | $\mathbf{2 1 , 2 9 6 , 3 0 9}$ | $\mathbf{1 9 , 5 7 7 , 5 4 8}$ | $\mathbf{2 0 , 1 8 2 , 4 8 0}$ | $\mathbf{2 4 , 7 8 0 , 4 0 1}$ | $\mathbf{2 7 , 6 8 5 , 0 5 3}$ | $\mathbf{2 6 , 5 5 2 , 0 8 3}$ |


| LICENCE | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}^{*}$ | 312,757 | 239,533 | 160,585 | 296,901 | 428,227 | $1,129,012$ | $1,129,011$ |
| $\mathbf{B}$ | $12,122,222$ | $2,926,562$ | $2,441,087$ | $4,509,716$ | $6,151,234$ | $4,430,958$ | 0 |
| $\mathbf{C}$ | $1,446,088$ | $1,509,446$ | $1,534,994$ | $1,763,009$ | $1,734,547$ | $1,939,301$ | $1,939,301$ |
| $\mathbf{E}$ | 34,500 | 56,925 | 84,150 | 95,600 | 0 | 0 | 0 |
| $\mathbf{F}^{* *}$ | 85,855 | 156,778 | 49,701 | 0 | 7,699 | 274,579 | 247,121 |
| $\mathbf{G}$ | $1,085,814$ | 558,859 | 374,079 | 909,945 | 627,065 | 769,004 | 769,004 |
| $\mathbf{L}$ | 493,873 | 581,855 | 533,368 | 579,782 | 907,704 | 760,700 | 760,700 |
| $\mathbf{R}$ | 240,511 | 263,006 | 405,720 | 285,453 | 278,912 | . |  |
| $\mathbf{S}$ | 895,352 | $1,237,335$ | 449,067 | 525,669 | 554,748 | 543,770 | 543,770 |
| $\mathbf{W} * * *$ | 515,383 | 905,319 | 524,877 | 488,818 | 506,479 | $1,219,240$ | $1,219,240$ |
| $\mathbf{X}$ | $1,804,098$ | $2,090,748$ | $2,510,109$ | $3,263,140$ | $3,263,140$ | $4,242,081$ | $4,242,082$ |
| $\mathbf{Y}$ | 434,158 | 407,128 | 650,185 | 656,810 | 459,542 | . | . |
| $\mathbf{Z}$ | 995,807 | 978,825 | 834,434 | $1,026,697$ | 474,296 | . | . |
|  | $\mathbf{2 0 , 4 6 6 , 4 1 9}$ | $\mathbf{1 1 , 9 1 2 , 3 1 9}$ | $\mathbf{1 0 , 5 5 2 , 3 5 7}$ | $\mathbf{1 4 , 4 0 1 , 5 4 1}$ | $\mathbf{1 5 , 3 9 3 , 5 9 3}$ | $\mathbf{1 5 , 3 0 8 , 6 4 5}$ | $\mathbf{1 0 , 8 5 0 , 2 2 9}$ |

[^2]
## Catch summary tables

Table C. 1 Total catch (tonnes) by vessel type and year

| VESSEL TYPE | $\mathbf{1 9 8 9}$ | $\mathbf{1 9 9 0}$ | $\mathbf{1 9 9 1}$ | $\mathbf{1 9 9 2}$ | $\mathbf{1 9 9 3}$ | $\mathbf{1 9 9 4}$ | $\mathbf{1 9 9 5}$ | $\mathbf{1 9 9 6}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CO | 59069 | 46211 | 27896 | 17669 | 1151 | 4807 | 3222 | 1569 |
| JI | 195476 | 94743 | 160754 | 149557 | 144189 | 62874 | 62717 | 73128 |
| LO | $\cdot$ | $\cdot$ | . | 131 | 10 | 2855 | 1901 | 992 |
| TR | 172270 | 143561 | 115853 | 147601 | 106257 | 126262 | 177332 | 119303 |
|  | $\mathbf{4 2 6 8 1 4}$ | $\mathbf{2 8 4 5 1 6}$ | $\mathbf{3 0 4 5 0 3}$ | $\mathbf{3 1 4 9 5 7}$ | $\mathbf{2 5 1 6 0 5}$ | $\mathbf{1 9 6 7 9 8}$ | $\mathbf{2 4 5 1 7 2}$ | $\mathbf{1 9 4 9 9 1}$ |
|  |  |  |  |  |  |  |  |  |
| VESSEL TYPE | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ |
| CO | 811 | 274 | . | . | . | . | . | . |
| JI | 150732 | 79837 | 254026 | 182925 | 146066 | 13001 | 101754 | 1661 |
| LO | 1241 | 1787 | 2077 | 2092 | 1684 | 1754 | 1832 | 2076 |
| TR | 77542 | 128976 | 120935 | 134089 | 117449 | 86224 | 105511 | 99361 |
|  | $\mathbf{2 3 0 3 2 6}$ | $\mathbf{2 1 0 8 7 4}$ | $\mathbf{3 7 7 0 3 8}$ | $\mathbf{3 1 9 1 0 7}$ | $\mathbf{2 6 5 1 9 8}$ | $\mathbf{1 0 0 9 7 9}$ | $\mathbf{2 0 9 0 9 7}$ | $\mathbf{1 0 3 0 9 8}$ |
|  |  |  |  |  |  |  |  |  |
| VESSEL TYPE | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |  |  |  |
| JI | 7776 | 68950 | 157533 | 100317 | 3 |  |  |  |
| PO | . | 295 | . | . | . |  |  |  |
| LO | 1791 | 1620 | 1624 | 1506 | 1245 |  |  |  |
| TR | 117537 | 142390 | 142890 | 168584 | 152009 |  |  |  |

## Catch summary tables

Table C. 2 Total catch (tonnes) of all species by year

| SPECIES | $\mathbf{1 9 8 9}$ | $\mathbf{1 9 9 0}$ | $\mathbf{1 9 9 1}$ | $\mathbf{1 9 9 2}$ | $\mathbf{1 9 9 3}$ | $\mathbf{1 9 9 4}$ | $\mathbf{1 9 9 5}$ | $\mathbf{1 9 9 6}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BAC | 2814 | 2778 | 2880 | 7055 | 6224 | 4043 | 9084 | 6925 |
| BLU | 43468 | 72326 | 50491 | 34078 | 24900 | 38697 | 39154 | 23539 |
| ILL | 224022 | 102417 | 174745 | 160016 | 145185 | 66996 | 64122 | 79724 |
| KIN | 977 | 850 | 949 | 1952 | 1643 | 899 | 1985 | 1682 |
| LOL | 118720 | 82990 | 53817 | 83384 | 52279 | 65757 | 98417 | 61374 |
| MAR | 0 | 4 | 141 | 1 | 33 | 0 | 5803 | 111 |
| PAT | 16480 | 11900 | 6759 | 4070 | 3029 | 1414 | 1988 | 1649 |
| RAY | 1749 | 1500 | 6923 | 8108 | 8523 | 5542 | 5432 | 3475 |
| TOO | 236 | 208 | 980 | 912 | 393 | 2963 | 2069 | 685 |
| WHI | 13313 | 7553 | 4499 | 14188 | 8506 | 10064 | 15603 | 13813 |
| OTH | 5036 | 1989 | 2317 | 1192 | 890 | 423 | 1514 | 2015 |
|  | $\mathbf{4 2 6 8 1 4}$ | $\mathbf{2 8 4 5 1 6}$ | $\mathbf{3 0 4 5 0 3}$ | $\mathbf{3 1 4 9 5 7}$ | $\mathbf{2 5 1 6 0 5}$ | $\mathbf{1 9 6 7 9 8}$ | $\mathbf{2 4 5 1 7 2}$ | $\mathbf{1 9 4 9 9 1}$ |


| SPECIES | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BAC | 4649 | 8121 | 9313 | 6551 | 3896 | 2617 | 2285 | 2781 |
| BLU | 26296 | 31483 | 28564 | 23371 | 25735 | 24908 | 20798 | 28554 |
| ILL | 149763 | 84993 | 266201 | 189709 | 150631 | 13411 | 103375 | 1720 |
| KIN | 1392 | 2217 | 2602 | 1875 | 1625 | 1224 | 1275 | 1841 |
| LOL | 26122 | 51559 | 34866 | 64493 | 53560 | 23712 | 47422 | 26835 |
| MAR | 2099 | . | 29 | . | 147 | 1 | 31 | 24 |
| PAT | 1554 | 3502 | 4224 | 3069 | 1978 | 1678 | 1967 | 1926 |
| RAY | 3320 | 1077 | 4785 | 3853 | 4309 | 3364 | 3988 | 5151 |
| TOO | 1208 | 2103 | 2988 | 2318 | 1754 | 1793 | 1707 | 2002 |
| WHI | 13006 | 22378 | 18765 | 19831 | 19471 | 26970 | 23815 | 25905 |
| OTH | 916 | 3443 | 4701 | 4037 | 2018 | 1242 | 1748 | 5080 |
| ZYP | . | . | . | . | 76 | 59 | 685 | 1279 |
|  | $\mathbf{2 3 0 3 2 6}$ | $\mathbf{2 1 0 8 7 4}$ | $\mathbf{3 7 7 0 3 8}$ | $\mathbf{3 1 9 1 0 7}$ | $\mathbf{2 6 5 1 9 8}$ | $\mathbf{1 0 0 9 7 9}$ | $\mathbf{2 0 9 0 9 7}$ | $\mathbf{1 0 3 0 9 8}$ |


| SPECIES | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| BAC | 2467 | 3469 | 5195 | 4076 | 5079 |
| BLU | 17047 | 20533 | 22204 | 13208 | 10395 |
| ILL | 7937 | 85614 | 161402 | 106608 | 44 |
| KIN | 1936 | 2821 | 3592 | 2226 | 3395 |
| LOL | 58811 | 43067 | 42003 | 52260 | 31475 |
| MAR | 0 | 0 | 0 | 0 | 0 |
| HAK | . | $8414^{* *}$ | $11,908^{* *}$ | $8805^{* *}$ | $13051^{* *}$ |
| PAT | $2735^{*}$ | $23^{* * *}$ | $0^{* * *}$ | $0^{* * *}$ | $0^{* * *}$ |
| RAY | 5698 | 4679 | 5663 | 3853 | 5865 |
| TOO | 1677 | 1572 | 1519 | 1429 | 1419 |
| WHI | 16721 | 19761 | 16669 | 15902 | 23170 |
| GRX | $\cdot$ | 797 | 622 | 943 | 958 |
| COX | $\cdot$ | 20211 | 30157 | 60589 | 58149 |
| ZYP | 1358 | 1161 | 14 | 6 | 13 |
| OTH | 10717 | 1133 | 1099 | 502 | 246 |
|  | $\mathbf{1 2 7 1 0 4}$ | $\mathbf{2 1 3 2 5 6}$ | $\mathbf{3 0 2 0 4 6}$ | $\mathbf{2 7 0 4 0 7}$ | $\mathbf{1 5 3 2 5 8}$ |

[^3]
## Catch summary tables

Table C. 3 Total catch (tonnes) by month and year

| MONTH | $\mathbf{1 9 8 9}$ | $\mathbf{1 9 9 0}$ | $\mathbf{1 9 9 1}$ | $\mathbf{1 9 9 2}$ | $\mathbf{1 9 9 3}$ | $\mathbf{1 9 9 4}$ | $\mathbf{1 9 9 5}$ | $\mathbf{1 9 9 6}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 2475 | . | 5128 | 5217 | 3723 | 9149 | 7810 | 5217 |
| February | 30652 | 26620 | 19493 | 21028 | 6789 | 13273 | 28800 | 15782 |
| March | 89952 | 74890 | 88553 | 96826 | 39900 | 52894 | 46084 | 49887 |
| April | 131835 | 56338 | 83954 | 79745 | 79365 | 27654 | 49391 | 48971 |
| May | 73998 | 28475 | 32258 | 24303 | 51777 | 18914 | 21514 | 19526 |
| June | 11913 | 1017 | 112 | 107 | 437 | 2002 | 1786 | 1211 |
| July | 5265 | 2437 | 2538 | 223 | 1577 | 2172 | 2937 | 1418 |
| August | 24987 | 13196 | 14895 | 22415 | 20227 | 18151 | 25736 | 16451 |
| September | 26143 | 33653 | 21075 | 26933 | 16111 | 19569 | 25540 | 13562 |
| October | 14221 | 17836 | 13123 | 19839 | 11891 | 16105 | 14486 | 8315 |
| November | 8909 | 19119 | 9832 | 10736 | 11056 | 8805 | 11881 | 7406 |
| December | 6463 | 10934 | 13542 | 7585 | 8751 | 8111 | 9205 | 7245 |
|  | $\mathbf{4 2 6 8 1 4}$ | $\mathbf{2 8 4 5 1 6}$ | $\mathbf{3 0 4 5 0 3}$ | $\mathbf{3 1 4 9 5 7}$ | $\mathbf{2 5 1 6 0 5}$ | $\mathbf{1 9 6 7 9 8}$ | $\mathbf{2 4 5 1 7 2}$ | $\mathbf{1 9 4 9 9 1}$ |


|  | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 7918 | 7687 | 6605 | 5213 | 6497 | 3536 | 5881 | 2901 |
| February | 8660 | 19942 | 29626 | 47924 | 10926 | 12306 | 16612 | 9405 |
| March | 29199 | 47799 | 98631 | 94536 | 81574 | 17335 | 91036 | 15081 |
| April | 60718 | 63064 | 104827 | 63840 | 71936 | 13811 | 37830 | 11292 |
| May | 68234 | 22936 | 73790 | 48684 | 38621 | 15504 | 5680 | 4930 |
| June | 10474 | 2821 | 12665 | 2854 | 2199 | 1473 | 1385 | 727 |
| July | 2625 | 1596 | 2313 | 2502 | 1299 | 253 | 877 | 6771 |
| August | 10019 | 13012 | 13364 | 16528 | 17380 | 11863 | 21491 | 14344 |
| September | 8668 | 11157 | 11853 | 16874 | 15306 | 5751 | 14513 | 10571 |
| October | 7960 | 7778 | 9857 | 8333 | 12413 | 5668 | 8831 | 13552 |
| November | 8381 | 6395 | 7138 | 7306 | 4933 | 8638 | 3981 | 8412 |
| December | 7470 | 6689 | 6370 | 4513 | 2112 | 4841 | 980 | 5114 |
|  | $\mathbf{2 3 0 3 2 6}$ | $\mathbf{2 1 0 8 7 4}$ | $\mathbf{3 7 7 0 3 8}$ | $\mathbf{3 1 9 1 0 7}$ | $\mathbf{2 6 5 1 9 8}$ | $\mathbf{1 0 0 9 7 9}$ | $\mathbf{2 0 9 0 9 7}$ | $\mathbf{1 0 3 0 9 8}$ |


|  | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| January | 1712 | 2180 | 2371 | 4071 | 3800 |
| February | 7562 | 10861 | 11130 | 14310 | 12414 |
| March | 27436 | 47995 | 40165 | 39441 | 20340 |
| April | 10581 | 46967 | 86250 | 65734 | 18753 |
| May | 3870 | 28046 | 69260 | 46724 | 17810 |
| June | 712 | 1839 | 8694 | 16356 | 5955 |
| July | 11786 | 10173 | 12356 | 10253 | 14481 |
| August | 22576 | 23408 | 26168 | 20955 | 16497 |
| September | 17104 | 15626 | 20049 | 23083 | 15138 |
| October | 11008 | 13522 | 14000 | 15444 | 13460 |
| November | 9644 | 8846 | 9748 | 9967 | 9259 |
| December | 3113 | 3792 | 1856 | 4069 | 5350 |
|  | $\mathbf{1 2 7 1 0 4}$ | $\mathbf{2 1 3 2 5 6}$ | $\mathbf{3 0 2 0 4 6}$ | $\mathbf{2 7 0 4 0 7}$ | $\mathbf{1 5 3 2 5 8}$ |

## Catch summary tables

Table C. 4 Total catch (tonnes) by gross registered tonnage (GRT) and year

| GRT | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | 7796 | 7829 | 3588 | 571 | 2186 | 276 | 0 | 0 | 0 | 0 | 0 |
| $\mathbf{4 0 0 - 5 9 9}$ | 26789 | 11671 | 13309 | 1502 | 6412 | 1604 | 2143 | 3527 | 3143 | 0 | 0 |
| $\mathbf{6 0 0 - 7 9 9}$ | 163915 | 110505 | 78231 | 14107 | 50758 | 3709 | 6955 | 52598 | 85767 | 61835 | 11579 |
| $\mathbf{8 0 0 - 9 9 9}$ | 37524 | 51052 | 46705 | 7974 | 42387 | 9987 | 13419 | 34392 | 79405 | 59514 | 19389 |
| $\mathbf{1 0 0 0 - 1 4 9 9}$ | 69138 | 59117 | 59440 | 34363 | 48736 | 31390 | 35548 | 54044 | 63161 | 71711 | 65100 |
| $\mathbf{1 5 0 0 - 1 9 9 9}$ | 15926 | 19525 | 15015 | 13455 | 15608 | 14958 | 24797 | 29284 | 33452 | 36462 | 31054 |
| $\mathbf{2 0 0 0 - 2 9 9 9}$ | 25317 | 35543 | 32726 | 13205 | 30373 | 16436 | 33009 | 25230 | 24456 | 32065 | 18921 |
| $\mathbf{> 2 9 9 9}$ | 30633 | 23864 | 16185 | 15803 | 12637 | 24738 | 11233 | 14180 | 12663 | 8820 | 7214 |
|  | $\mathbf{3 7 7 0 3 8}$ | $\mathbf{3 1 9 1 0 7}$ | $\mathbf{2 6 5 1 9 8}$ | $\mathbf{1 0 0 9 7 9}$ | $\mathbf{2 0 9 0 9 7}$ | $\mathbf{1 0 3 0 9 8}$ | $\mathbf{1 2 7 1 0 4}$ | $\mathbf{2 1 3 2 5 6}$ | $\mathbf{3 0 2 0 4 6}$ | $\mathbf{2 7 0 4 0 7}$ | $\mathbf{1 5 3 2 5 8}$ |

Table C. 5 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 1803 | 865 | 2458 | 271 | 42 | 0 | 0 | 0 | 0 | 0 | 0 |
| $\mathbf{4 5 - 4 9}$ | 123498 | 76639 | 54447 | 8662 | 30524 | 5553 | 7824 | 24366 | 39348 | 31052 | 13343 |
| $\mathbf{5 0 - 5 4}$ | 71292 | 62017 | 42364 | 14062 | 36900 | 13790 | 18202 | 46204 | 66139 | 50664 | 15783 |
| $\mathbf{5 5 - 5 9}$ | 21017 | 29661 | 23807 | 8845 | 22691 | 4041 | 5826 | 22869 | 39903 | 32374 | 13976 |
| $\mathbf{6 0 - 6 4}$ | 44818 | 34635 | 41514 | 9615 | 31321 | 11646 | 16725 | 29214 | 41920 | 42074 | 31319 |
| $\mathbf{6 5 - 6 9}$ | 37289 | 32864 | 32676 | 18200 | 30024 | 19604 | 23806 | 34678 | 56105 | 52366 | 30813 |
| $\mathbf{7 0 - 7 9}$ | 33167 | 37047 | 32979 | 17773 | 28338 | 10501 | 20768 | 23791 | 28571 | 31227 | 27653 |
| $\mathbf{8 0 - 8 9}$ | 10100 | 17008 | 14026 | 5661 | 12649 | 11357 | 17923 | 14811 | 14052 | 17598 | 11048 |
| $\mathbf{8 9}$ | 34054 | 28370 | 20928 | 17890 | 16606 | 26606 | 16030 | 17323 | 16009 | 13052 | 9323 |
|  | $\mathbf{3 7 7 0 3 8}$ | $\mathbf{3 1 9 1 0 7}$ | $\mathbf{2 6 5 1 9 8}$ | $\mathbf{1 0 0 9 7 9}$ | $\mathbf{2 0 9 0 9 7}$ | $\mathbf{1 0 3 0 9 8}$ | $\mathbf{1 2 7 1 0 4}$ | $\mathbf{2 1 3 2 5 6}$ | $\mathbf{3 0 2 4 0 6}$ | $\mathbf{2 7 0 4 0 7}$ | $\mathbf{1 5 3 2 5 8}$ |

Table C. 6 Total catch (tonnes) by brake horsepower (BHP) and year

| BHP | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{1 0 0 0}$ | 2964 | 1765 | 1320 | 183 | 42 | 0 | 0 | 0 | 0 | 0 | 0 |
| $\mathbf{1 0 0 0 - 1 1 9 9}$ | 12634 | 7711 | 9643 | 917 | 6666 | 28 | 0 | 0 | 0 | 0 | 0 |
| $\mathbf{1 2 0 0 - 1 3 9 9}$ | 68649 | 45064 | 32509 | 5516 | 17093 | 129 | 1796 | 15688 | 29866 | 18662 | 2144 |
| $\mathbf{1 4 0 0 - 1 5 9 9}$ | 86241 | 60183 | 46741 | 10995 | 34576 | 8407 | 9782 | 40838 | 58657 | 44745 | 21354 |
| $\mathbf{1 6 0 0 - 1 7 9 9}$ | 53105 | 36388 | 28040 | 4815 | 21161 | 5297 | 7206 | 24325 | 40361 | 37133 | 15135 |
| $\mathbf{1 8 0 0 - 1 9 9 9}$ | 52553 | 60145 | 55146 | 18246 | 40925 | 20248 | 22760 | 47600 | 68196 | 57387 | 37866 |
| $\mathbf{2 0 0 0 - 2 4 9 9}$ | 35572 | 35493 | 29519 | 18188 | 31772 | 19557 | 26874 | 34833 | 52344 | 55518 | 40866 |
| $\mathbf{2 5 0 0 - 2 9 9 9}$ | 6441 | 7449 | 9805 | 10652 | 10413 | 7303 | 9703 | 6063 | 11512 | 11060 | 5067 |
| $\mathbf{3 0 0 0 - 3 9 9 9}$ | 22061 | 31584 | 27147 | 11947 | 26292 | 14997 | 28618 | 22392 | 21237 | 28380 | 23601 |
| $\mathbf{3 3 9 9 9}$ | 36817 | 33324 | 25328 | 19519 | 20158 | 27133 | 20366 | 21517 | 19874 | 17522 | 7224 |
|  | $\mathbf{3 7 7 0 3 8}$ | $\mathbf{3 1 9 1 0 7}$ | $\mathbf{2 6 5 1 9 8}$ | $\mathbf{1 0 0 9 7 9}$ | $\mathbf{2 0 9 0 9 7}$ | $\mathbf{1 0 3 0 9 8}$ | $\mathbf{1 2 7 1 0 4}$ | $\mathbf{2 1 3 2 5 6}$ | $\mathbf{3 0 2 0 4 6}$ | $\mathbf{2 7 0 4 0 7}$ | $\mathbf{1 5 3 2 5 8}$ |

## Catch summary tables

Table C. 7 Total catch (tonnes) by fishing fleet and year

| Fishing fleet | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BG | 13503 | 22369 | 21888 | 8981 | 2976 | . | . |  |
| BZ | . | . | . |  |  |  | 585 |  |
| CL | 1150 | 1884 | . | 3145 | 1514 | 5223 | 9997 | 6638 |
| ES | 82345 | 65908 | 57605 | 87763 | 58143 | 67191 | 89284 | 40842 |
| FK | 781 | 5853 | 1470 | 1846 | 1978 | 5906 | 27184 | 31520 |
| FR | . | . | . | . | . | 1945 | 7369 | 4600 |
| GR | 4960 | 3121 | . | . | . | . | . | . |
| HN | . | . | 1712 | 2761 | 3681 | 2976 | 2833 | 850 |
| IS | . | . |  | . | . | . | . | 214 |
| IT | 10391 | 4547 | 2409 | 2923 | 2142 | 1181 | 218 | . |
| JP | 125567 | 60028 | 93652 | 68325 | 39510 | 39916 | 25583 | 24870 |
| KR | 51133 | 32996 | 61614 | 72489 | 65228 | 42987 | 63236 | 73861 |
| NA | . | . | . | . | . | . | . | . |
| NL | 4587 | 3369 | . | . | . | . | . |  |
| NO | . | 1384 | . | . | . | . | . | 319 |
| PA | . | . | 2425 | 4027 | 1060 | 598 | 459 | 706 |
| PL | 74039 | 64765 | 43878 | 32996 | 12442 | 11178 | 8861 | 3262 |
| PT | 9143 | 6430 | 3268 | 1548 | 1809 | 2512 | 5157 | 1052 |
| RU | . | . | . | . | . | 39 | . | . |
| SL |  | . |  | 1150 | 822 | 373 | . |  |
| TW | 37529 | 10479 | 12590 | 27002 | 59853 | 13497 | 2323 | 1901 |
| UK | 11685 | 1383 | 1992 | . | 445 | 1255 | 2083 | 4357 |
| UR | . | . |  | . |  | 21 | . |  |
|  | 426814 | 284516 | 304503 | 314957 | 251605 | 196798 | 245172 | 194991 |

## Catch summary tables

Table C. 7 Total catch (tonnes) by fishing fleet and year, continued

| Fishing |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| fleet | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ |
| AU | $\cdot$ | 3593 | 3711 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| BZ | $\cdot$ | $\cdot$ | 4511 | 6729 | 2581 | 136 | 2788 | 42 | 61 |
| CB | $\cdot$ | $\cdot$ | $\cdot$ | 2768 | 1204 | 33 | 857 | 17 | $\cdot$ |
| CL | 8199 | 8849 | 5491 | 2749 | 8014 | 9252 | 6490 | 9752 | $\cdot$ |
| CN | $\cdot$ | 1177 | 7301 | 11641 | 18838 | 1203 | 12652 | 99 | 99 |
| EE | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 226 | $\cdot$ |
| ES | 20510 | 40307 | 35909 | 30732 | 29170 | 23972 | 20169 | 22488 | 24546 |
| FK | 17117 | 43578 | 39131 | 62947 | 59820 | 35732 | 60596 | 43320 | 71205 |
| FR | 1545 | 4177 | 2381 | 2053 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| IS | 268 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| JP | 46060 | 56992 | 57971 | 41737 | 27913 | 14485 | 18923 | 15062 | 11230 |
| KR | 129546 | 45082 | 207795 | 128940 | 86587 | 12637 | 53677 | 6008 | 10074 |
| NA | 303 | 676 | 746 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 1181 | $\cdot$ |
| NO | 210 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| NZ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 69 | $\cdot$ | $\cdot$ |
| PA | $\cdot$ | 1098 | 61 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 194 |
| PT | $\cdot$ | $\cdot$ | $\cdot$ | 66 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| RU | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 228 | $\cdot$ | 6891 | 31 | $\cdot$ |
| SC | 1252 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| TW | 3013 | 1734 | 8771 | 23243 | 25380 | 1190 | 22057 | 866 | 3106 |
| UK | 2302 | 3575 | 3259 | 5501 | 3564 | 2279 | 3238 | 2703 | 5100 |
| UR | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| UY | $\cdot$ | 36 | $\cdot$ | $\cdot$ | 81 | 61 | 690 | 1303 | 1369 |
| VC | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 1820 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| VU | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 120 |
|  | $\mathbf{2 3 0 3 2 6}$ | $\mathbf{2 1 0 8 7 4}$ | $\mathbf{3 7 7 0 3 8}$ | $\mathbf{3 1 9 1 0 7}$ | $\mathbf{2 6 5 1 9 8}$ | $\mathbf{1 0 0 9 7 9}$ | $\mathbf{2 0 9 0 9 7}$ | $\mathbf{1 0 3 0 9 8}$ | $\mathbf{1 2 7 1 0 4}$ |


| Fishing <br> fleet | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: |
| BZ | $\cdot$ | 2285 | . | $\cdot$ |
| CL | 2131 | 3948 | 1640 | $\cdot$ |
| CN | 3555 | 8575 | $\cdot$ | $\cdot$ |
| EE | 1247 | $\cdot$ | . | . |
| ES | 42024 | 56165 | 72570 | 80122 |
| FK | 65229 | 65812 | 76949 | 58537 |
| GH | 1244 | . | . | . |
| JP | 12049 | 9042 | 8820 | 7214 |
| KR | 60943 | 99171 | 81224 | 3317 |
| PA | 1375 | 3150 | . | . |
| TW | 18554 | 49970 | 24353 | . |
| UK | 3734 | 3928 | 4850 | 4067 |
| UY | 1169 | . | . | . |
|  | $\mathbf{2 1 3 2 5 6}$ | $\mathbf{3 0 2 0 4 6}$ | $\mathbf{2 7 0 4 0 7}$ | $\mathbf{1 5 3 2 5 8}$ |

## Illex argentinus-IIlex squid

Table D. 1 Total catch (tonnes) by vessel type and year

| VESSEL |  |  |  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TYPE | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| JI | 182925 | 145919 | 13000 | 101753 | 1661 | 7776 | 68950 | 157533 | 100317 | 3 |
| TR | 6784 | 4711 | 411 | 1622 | 59 | 162 | 16665 | 3869 | 6290 | 41 |
|  | $\mathbf{1 8 9 7 0 9}$ | $\mathbf{1 5 0 6 3 1}$ | $\mathbf{1 3 4 1 1}$ | $\mathbf{1 0 3 3 7 5}$ | $\mathbf{1 7 2 0}$ | $\mathbf{7 9 3 7}$ | $\mathbf{8 5 6 1 4}$ | $\mathbf{1 6 1 4 0 2}$ | $\mathbf{1 0 6 6 0 8}$ | $\mathbf{4 4}$ |

Table D. 2 Total catch (tonnes) by month and year

| MONTH | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 39 |  | 1 |  |  |  | 6 | 4 | 0 |  |
| February | 26916 | 55 | 1293 | 1944 | 24 | 87 | 454 | 3056 | 952 | 1 |
| March | 75957 | 69399 | 1911 | 71279 | 1424 | 6915 | 26654 | 22693 | 11460 | 30 |
| April | 48565 | 57031 | 2766 | 28624 | 269 | 934 | 36353 | 71559 | 48116 | 11 |
| May | 36412 | 22926 | 7439 | 1516 | 3 | 0 | 21922 | 58852 | 34088 | 1 |
| June | 1820 | 1220 | 0 | 11 | . | . | 225 | 5237 | 11991 | 0 |
| July | . | 0 | . | . | . | . | . | . | 1 | . |
| August | . | . | . |  | . | . | . | . | . |  |
| September | . | . | . | . | . | . | . | . | . |  |
| October |  | . | . |  | . | . | . | . | . |  |
| November |  |  |  |  | . | . | . | . | . |  |
| December |  | 0 | . |  |  |  |  |  | . |  |
|  | 189709 | 150631 | 13411 | 103375 | 1720 | 7937 | 85614 | 161402 | 106608 | 44 |

Table D. 3 Total catch (tonnes) by fishing fleet and year

| Fishing fleet | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| BZ | 4066 | 1692 | 124 | 2767 | 42 | 61 | $\cdot$ | 2285 | $\cdot$ | $\cdot$ |
| CB | 2768 | 1195 | 33 | 857 | 17 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| CL | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| CN | 11641 | 18838 | 1203 | 12652 | 99 | 99 | 3555 | 8575 | $\cdot$ | $\cdot$ |
| EE | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 3 | $\cdot$ | 472 |  | $\cdot$ | $\cdot$ |
| ES | 989 | 2807 | 271 | 960 | 22 | 95 | 2320 | 3297 | 3197 | 33 |
| FK | 716 | 1879 | 140 | 659 | 16 | 93 | 1050 | 537 | 442 | 8 |
| FR | 0 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| GH |  |  |  |  |  | $\cdot$ | 1244 | $\cdot$ | $\cdot$ | $\cdot$ |
| IS | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| JP | 25652 | 18126 | 1113 | 7746 | 93 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| KR | 120628 | 80827 | 9338 | 48766 | 530 | 4170 | 57030 | 94807 | 78612 | 3 |
| NA | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| PA | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 194 | 1375 | 1896 | $\cdot$ | $\cdot$ |
| RU | $\cdot$ | 0 | $\cdot$ | 6891 | 31 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| TW | 23243 | 25241 | 1189 | 22077 | 865 | 3106 | 18554 | 49970 | 24353 | 0 |
| UK | 6 | 21 | $\cdot$ | $\cdot$ | 1 | $\cdot$ | 15 | 35 | 4 | 0 |
| VC | $\cdot$ | 4 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| VU |  |  |  |  |  | 120 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
|  | $\mathbf{1 8 9 7 0 9}$ | $\mathbf{1 5 0 6 3 1}$ | $\mathbf{1 3 4 1 1}$ | $\mathbf{1 0 3 3 7 5}$ | $\mathbf{1 7 2 0}$ | $\mathbf{7 9 3 7}$ | $\mathbf{8 5 6 1 4}$ | $\mathbf{1 6 1 4 0 2}$ | $\mathbf{1 0 6 6 0 8}$ | $\mathbf{4 4}$ |

## Illex argentinus-IIlex squid

Table D. 4 Total catch (tonnes) by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<400$ | 5755 | 2627 | 190 | 1888 | 24 | . | . | . | . | . |
| $400-599$ | 11574 | 12799 | 1206 | 5030 | 26 | 280 | 2067 | 3143 | . | . |
| $600-799$ | 103179 | 70730 | 7338 | 45406 | 493 | 3757 | 47876 | 76265 | 52635 | 3 |
| $800-999$ | 40053 | 39487 | 2530 | 34521 | 994 | 3487 | 23849 | 66413 | 43624 | 6 |
| $1000-1499$ | 23536 | 24066 | 2061 | 16232 | 153 | 381 | 10690 | 13554 | 9842 | 34 |
| $1500-1999$ | 553 | 414 | 86 | 177 | 12 | 14 | 1022 | 2026 | 430 | 1 |
| $2000-2999$ | 30 | 508 | 1 | 120 | 1 | 19 | 111 | 0 | 69 | 0 |
| $>2999$ | 5030 | . | . | . | 17 | . | . | . | . | . |
|  | $\mathbf{1 8 9 7 0 9}$ | $\mathbf{1 5 0 6 3 1}$ | $\mathbf{1 3 4 1 1}$ | $\mathbf{1 0 3 3 7 5}$ | $\mathbf{1 7 2 0}$ | $\mathbf{7 9 3 7}$ | $\mathbf{8 5 6 1 4}$ | $\mathbf{1 6 1 4 0 2}$ | $\mathbf{1 0 6 6 0 8}$ | $\mathbf{4 4}$ |

Table D. 5 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<45$ | 1865 | 1865 | . | . | 0 | . | . | . | . | . |
| $45-49$ | 49259 | 49259 | 5176 | 25175 | 277 | 1914 | 16493 | 28700 | 17640 | 3 |
| $50-54$ | 28339 | 28339 | 3089 | 24699 | 312 | 2206 | 30895 | 49460 | 39423 | 5 |
| $55-59$ | 16588 | 16588 | 1293 | 16753 | 447 | 1736 | 15719 | 31360 | 20204 | 1 |
| $60-64$ | 27502 | 27502 | 1779 | 18624 | 348 | 832 | 10718 | 20600 | 11409 | 17 |
| $65-69$ | 17984 | 17984 | 1583 | 13616 | 254 | 1091 | 9264 | 26783 | 17496 | 4 |
| $70-79$ | 8622 | 8622 | 490 | 4414 | 61 | 140 | 2412 | 4499 | 283 | 14 |
| $80-89$ | 458 | 458 | 1 | 90 | 3 | 19 | 111 | . | 145 | 0 |
| $>89$ | 14 | 14 | . | 4 | 17 | . | 3 | . | 1 | 0 |
|  | $\mathbf{1 5 0 6 3 1}$ | $\mathbf{1 5 0 6 3 1}$ | $\mathbf{1 3 4 1 1}$ | $\mathbf{1 0 3 3 7 5}$ | $\mathbf{1 7 2 0}$ | $\mathbf{7 9 3 7}$ | $\mathbf{8 5 6 1 4}$ | $\mathbf{1 6 1 4 0 2}$ | $\mathbf{1 0 6 6 0 8}$ | $\mathbf{4 4}$ |

Table D. 6 Total catch (tonnes) by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<1000$ | 1765 | 1239 | 122 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1000-1199$ | 7711 | 9643 | 917 | 6597 | 28 | 1158 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1200-1399$ | 42851 | 30503 | 2808 | 16189 | 147 | 2218 | 14549 | 27556 | 16162 | 0 |
| $1400-1599$ | 51436 | 38463 | 4015 | 27928 | 329 | 937 | 28947 | 45081 | 30225 | 5 |
| $1600-1799$ | 30881 | 23703 | 2073 | 14773 | 214 | 2250 | 14749 | 28652 | 21576 | 17 |
| $1800-1999$ | 40765 | 37469 | 2610 | 26640 | 656 | 1041 | 20250 | 36701 | 19369 | 7 |
| $2000-2499$ | 9130 | 7795 | 766 | 10375 | 246 | 315 | 6994 | 20302 | 14772 | 14 |
| $2500-2999$ | 105 | 1286 | 99 | 753 | 80 | 19 | 3 | 3075 | 4423 | 0 |
| $3000-3999$ | 27 | 484 | 1 | 109 | 2 | $\cdot$ | 120 | 35 | 62 | 0 |
| $>3999$ | 5039 | 45 | . | 12 | 17 | . | 3 | . | 12 | $\cdot$ |
|  | $\mathbf{1 8 9 7 0 9}$ | $\mathbf{1 5 0 6 3 1}$ | $\mathbf{1 3 4 1 1}$ | $\mathbf{1 0 3 3 7 5}$ | $\mathbf{1 7 2 0}$ | $\mathbf{7 9 3 7}$ | $\mathbf{8 5 6 1 4}$ | $\mathbf{1 6 1 4 0 2}$ | $\mathbf{1 0 6 6 0 8}$ | $\mathbf{4 4}$ |

## Illex argentinus-IIlex squid

Table D. 7 Total catch (tonnes) of jiggers by gross registered tonnage (GRT) and year

| GRT | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<400$ | 5754 | 2627 | 190 | 1888 | 24 | . | . | . | . | . |
| 400-599 | 11574 | 12799 | 1206 | 5030 | 26 | 280 | 2067 | 3143 | . | - |
| 600-799 | 103054 | 70286 | 7279 | 45203 | 489 | 3756 | 40707 | 75854 | 52171 | 3 |
| 800-999 | 39901 | 38817 | 2484 | 34168 | 988 | 3484 | 17667 | 66034 | 40683 | 0 |
| 1000-1499 | 22642 | 21392 | 1841 | 15463 | 133 | 228 | 8509 | 10680 | 7463 | 0 |
| 1500-1999 | . | . | . | . | . | . | . | 1822 | . | . |
| 2000-2999 | . | . | . | . | . | . | . | . | . | . |
|  | 182925 | 145919 | 13000 | 101753 | 1660 | 7749 | 68950 | 157533 | 100317 | 3 |

Table D. 8 Total catch (tonnes) of jiggers by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<45$ | $\cdot$ | 1865 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $45-49$ | 69863 | 48439 | 5130 | 24798 | 274 | 1911 | 16300 | 28068 | 17342 | $\cdot$ |
| $50-54$ | 45743 | 27806 | 3036 | 24461 | 305 | 2184 | 24724 | 49197 | 36397 | 2 |
| $55-59$ | 19532 | 15655 | 1214 | 16480 | 440 | 1706 | 10861 | 30972 | 20091 | $\cdot$ |
| $60-64$ | 21128 | 26968 | 1736 | 18420 | 345 | 776 | 9800 | 19021 | 9523 | $\cdot$ |
| $65-69$ | 18957 | 17586 | 1496 | 13372 | 244 | 1058 | 5342 | 25958 | 16965 | 0 |
| $70-79$ | 7704 | 7600 | 388 | 4222 | 52 | 113 | 1923 | 4316 | $\cdot$ | 1 |
| $>79$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | . | . | $\cdot$ |
|  | $\mathbf{1 8 2 9 2 5}$ | $\mathbf{1 4 5 9 1 9}$ | $\mathbf{1 3 0 0 0}$ | $\mathbf{1 0 1 7 5 3}$ | $\mathbf{1 6 6 0}$ | $\mathbf{7 7 4 9}$ | $\mathbf{6 8 9 5 0}$ | $\mathbf{1 5 7 5 3 3}$ | $\mathbf{1 0 0 3 1 7}$ | $\mathbf{3}$ |

Table D. 9 Total catch (tonnes) of jiggers by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<1000$ | 1765 | 1239 | 122 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1000-1199$ | 7711 | 9643 | 917 | 6597 | 28 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1200-1399$ | 42790 | 30295 | 2775 | 16074 | 147 | 1158 | 10574 | 27350 | 16102 | $\cdot$ |
| $1400-1599$ | 51211 | 37349 | 3944 | 27446 | 320 | 2198 | 25095 | 44568 | 29644 | $\cdot$ |
| $1600-1799$ | 30831 | 23506 | 2063 | 14670 | 211 | 912 | 10957 | 28114 | 20503 | 3 |
| $1800-1999$ | 40101 | 35757 | 2439 | 26155 | 640 | 2137 | 16038 | 34783 | 18255 | 0 |
| $2000-2400$ | 8517 | 7169 | 667 | 10088 | 233 | 1029 | 6286 | 19643 | 14039 | $\cdot$ |
| $2500-2999$ | $\cdot$ | 960 | 74 | 723 | 81 | 315 | $\cdot$ | 3075 | 1774 | $\cdot$ |
| $3000-3999$ | $\cdot$ | . | . | . | $\cdot$ | . | . | . | . | . |
|  | $\mathbf{1 8 2 9 2 5}$ | $\mathbf{1 4 5 9 1 9}$ | $\mathbf{1 3 0 0 0}$ | $\mathbf{1 0 1 7 5 3}$ | $\mathbf{1 6 6 0}$ | $\mathbf{7 7 4 9}$ | $\mathbf{6 8 9 5 0}$ | $\mathbf{1 5 7 5 3 3}$ | $\mathbf{1 0 0 3 1 7}$ | $\mathbf{3}$ |

Table D. 10 Total catch (tonnes) of trawlers by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<400$ | 1 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $400-599$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 7168 | $\cdot$ | $\cdot$ | $\cdot$ |
| $600-799$ | 125 | 444 | 59 | 203 | 4 | 0 | 6183 | 412 | 464 | 3 |
| $800-999$ | 151 | 670 | 45 | 353 | 1 | 3 | 2181 | 379 | 2941 | 4 |
| $1000-1499$ | 894 | 2675 | 220 | 769 | 25 | 126 | 1022 | 2874 | 2379 | 34 |
| $1500-1999$ | 553 | 414 | 86 | 177 | 12 | 14 | 111 | 204 | 438 | 1 |
| $2000-2999$ | 30 | 508 | 1 | 120 | 1 | 19 | $\cdot$ | 0 | 69 | 0 |
| $<2999$ | 5030 | $\cdot$ | . | $\cdot$ | 17 | $\cdot$ | $\cdot$ | . | . | $\cdot$ |
|  | $\mathbf{6 7 8 4}$ | $\mathbf{4 7 1 1}$ | $\mathbf{4 1 1}$ | $\mathbf{1 6 2 2}$ | $\mathbf{5 9}$ | $\mathbf{1 6 2}$ | $\mathbf{1 6 6 6 5}$ | $\mathbf{3 8 6 9}$ | $\mathbf{6 2 9 0}$ | $\mathbf{4 1}$ |

## Illex argentinus-IIlex squid

Table D. 11 Total catch (tonnes) of trawlers by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<45$ | $\cdot$ | $\cdot$ | . | $\cdot$ | $\cdot$ | $\cdot$ | . | . | . | . |
| $45-49$ | 165 | 820 | 46 | 378 | 3 | 3 | 193 | 631 | 298 | 3 |
| $50-54$ | 94 | 533 | 53 | 237 | 7 | 22 | 6171 | 263 | 3026 | 2 |
| $55-59$ | 275 | 932 | 79 | 273 | 4 | 30 | 4858 | 388 | 113 | 1 |
| $60-64$ | 298 | 534 | 43 | 204 | 7 | 56 | 918 | 1578 | 1886 | 17 |
| $65-69$ | 266 | 399 | 87 | 244 | 10 | 33 | 3922 | 825 | 539 | 3 |
| $70-79$ | 627 | 1022 | 101 | 192 | 9 | 0 | 489 | 184 | 283 | 13 |
| $80-89$ | 29 | 458 | 1 | 90 | 3 | 19 | 111 | . | 145 | 0 |
| $>89$ | 5030 | 14 | . | 4 | 17 | . | 3 | . | 1 | 0 |
|  | $\mathbf{6 7 8 4}$ | $\mathbf{4 7 1 1}$ | $\mathbf{4 1 1}$ | $\mathbf{1 6 2 2}$ | $\mathbf{5 9}$ | $\mathbf{1 6 2}$ | $\mathbf{1 6 6 6 5}$ | $\mathbf{3 8 6 9}$ | $\mathbf{6 2 9 0}$ | $\mathbf{4 1}$ |

Table D. 12 Total catch (tonnes) of trawlers by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1000-1199$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | . | $\cdot$ |
| $1200-1399$ | 62 | 208 | 33 | 115 | $\cdot$ | $\cdot$ | 3975 | 206 | 61 | $\cdot$ |
| $1400-1599$ | 226 | 1114 | 71 | 482 | 8 | 20 | 3853 | 513 | 581 | 5 |
| $1600-1799$ | 50 | 197 | 10 | 103 | 2 | 25 | 3792 | 538 | 1073 | 15 |
| $1800-1999$ | 664 | 1712 | 171 | 485 | 16 | 87 | 4212 | 1918 | 1121 | 6 |
| $2000-2499$ | 612 | 626 | 98 | 287 | 14 | 11 | 707 | 659 | 732 | 14 |
| $2500-2999$ | 105 | 326 | 25 | 31 | 0 | 0 | 3 | $\cdot$ | 2648 | 0 |
| $3000-3999$ | 27 | 484 | 1 | 109 | 19 | 19 | 120 | 35 | 62 | 0 |
| $>3999$ | 5039 | 45 | . | 12 | . | . | 3 | . | 12 | $\cdot$ |
|  | $\mathbf{6 7 8 4}$ | $\mathbf{4 7 1 1}$ | $\mathbf{4 1 1}$ | $\mathbf{1 6 2 2}$ | $\mathbf{5 9}$ | $\mathbf{1 6 2}$ | $\mathbf{1 6 6 6 5}$ | $\mathbf{3 8 6 9}$ | $\mathbf{6 2 9 0}$ | $\mathbf{4 1}$ |

## Illex argentinus



Catch (mt) by grid square)

## Illex argentinus-Illex squid

Length- frequency distribution and length-weight relationship in trawler fleets in 2009 in the Falkland waters



## Illex argentinus-Illex squid

Length- frequency distribution and length-weight relationship in trawler fleets in 2009 on high seas



## Loligo gahi - Patagonian squid

Table E. 1 Total catch (tonnes) by vessel type and year

| VESSEL TYPE | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 64493 | 53560 | 23712 | 47422 | 26835 | 58811 | 43067 | 42003 | 52260 | 31475 |
|  | $\mathbf{6 4 4 9 3}$ | $\mathbf{5 3 5 6 0}$ | $\mathbf{2 3 7 1 2}$ | $\mathbf{4 7 4 2 2}$ | $\mathbf{2 6 8 3 5}$ | $\mathbf{5 8 8 1 1}$ | $\mathbf{4 3 0 6 7}$ | $\mathbf{4 2 0 0 3}$ | $\mathbf{5 2 2 6 0}$ | $\mathbf{3 1 4 7 5}$ |

Table E. 2 Total catch (tonnes) by month and year

| MONTH | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | $\cdot$ | . | . | 0 | . | . | . | 0 | . | 0 |
| February | 11006 | 4478 | 3980 | 1180 | 586 | 2050 | 2943 | 729 | 3972 | 2013 |
| March | 9600 | 3754 | 2761 | 12340 | 4431 | 17905 | 13716 | 10271 | 15406 | 8573 |
| April | 8921 | 7854 | 2750 | 3851 | 2519 | 7427 | 2770 | 6388 | 5633 | 2403 |
| May | 9186 | 11538 | 4707 | 1224 | 869 | 1365 | 2 | 35 | 4 | 17 |
| June | 0 | 0 | 0 | 378 | 201 | 209 | 6 | 10 | 18 | 8 |
| July | 1 | . | 0 | 8 | 5852 | 10265 | 8132 | 6325 | 5611 | 8228 |
| August | 11288 | 14432 | 8007 | 16921 | 8045 | 14442 | 13988 | 14435 | 10780 | 8102 |
| September | 10620 | 8241 | 1213 | 9134 | 4301 | 5090 | 1425 | 3743 | 10780 | 2030 |
| October | 3863 | 3258 | 290 | 2372 | 30 | 42 | 81 | 56 | 52 | 82 |
| November | 9 | 3 | 3 | 11 | 1 | 15 | 4 | 9 | 4 | 19 |
| December | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | . | . |
|  | $\mathbf{6 4 4 9 3}$ | $\mathbf{5 3 5 6 0}$ | $\mathbf{2 3 7 1 2} \mathbf{4 7 4 2 2}$ | $\mathbf{2 6 8 3 5}$ | $\mathbf{5 8 8 1 1}$ | $\mathbf{4 3 0 6 7}$ | $\mathbf{4 2 0 0 3}$ | $\mathbf{5 2 2 6 0}$ | $\mathbf{3 1 4 7 5}$ |  |

Table E. 3 Total catch (tonnes) by fishing fleet and year

| Fishing fleet | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | . | . | . | . | . | . | . | . | . | . |
| BZ | 2 | . | . | . | . | . | . | . | . | . |
| CL | . | . | . | . | . | . | . | . | . | . |
| ES | 6805 | 5412 | 3036 | 458 | 98 | 104 | 74 | 134 | 3055 | 1756 |
| FK | 50308 | 42911 | 18613 | 43830 | 23573 | 54178 | 40165 | 38090 | 45684 | 27181 |
| FR | 2024 | . | . | . | . | . | . | . | . | . |
| HN | . | . | . | . | . | . | . | . | . | . |
| JP | . | 1 | . | . | 1 | . | . | 2 | 1 | 0 |
| KR | 27 | 10 | 13 | 38 | 53 | 13 | 41 | 22 | 6 | 2 |
| NA | . | . | . | . | 1141 | . | . | . | . | . |
| PA | . | . | . | . | . | . | . | 1075 | . | . |
| PL | . | . | . | . | . | . | . | . | . | . |
| PT | . | . | . | . | . | . | . | . | . | . |
| SC | . | . | . | . | . | . | . | . | . | . |
| UK | 5328 | 3431 | 2049 | 3095 | 1967 | 4516 | 2786 | 2681 | 3515 | 2535 |
| UY | . | . | . | . | . | . | . | . | . | . |
| VC | . | 1795 | . | . | . | . | . |  | . | . |
|  | 64493 | 53560 | 23712 | 47422 | 26835 | 58811 | 43067 | 42003 | 52260 | 31475 |

Table E. 4 Total catch (tonnes) by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<400$ | 5 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $400-599$ | $\cdot$ | $\cdot$ | $\cdot$ | 4 | 2 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $600-799$ | 2707 | 2160 | 1102 | 847 | 19 | 202 | 8 | 29 | 14 | 179 |
| $800-999$ | 3297 | 2640 | 1361 | 2095 | 1149 | 2671 | 2165 | 2199 | 2872 | 1747 |
| $1000-1499$ | 11504 | 9449 | 3889 | 8088 | 5317 | 9844 | 6578 | 7552 | 8439 | 5299 |
| $1500-1999$ | 14122 | 9248 | 5312 | 9611 | 7474 | 17527 | 13227 | 12577 | 15577 | 9975 |
| $2000-2999$ | 32858 | 30063 | 12048 | 26776 | 12873 | 28564 | 21089 | 19645 | 25358 | 14275 |
| $>2999$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 1 | 3 | $\cdot$ | 2 | 1 | 0 |
|  | $\mathbf{6 4 4 9 3}$ | $\mathbf{5 3 5 6 0}$ | $\mathbf{2 3 7 1 2}$ | $\mathbf{4 7 4 2 2}$ | $\mathbf{2 6 8 3 5}$ | $\mathbf{5 8 8 1 1}$ | $\mathbf{4 3 0 6 7}$ | $\mathbf{4 2 0 0 3}$ | $\mathbf{5 2 2 6 0}$ | $\mathbf{3 1 4 7 5}$ |

Table E. 5 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<45$ | . | . | . | . | . | . | . | . | . | . |
| $45-49$ | 3288 | 2638 | 1361 | 2089 | 1116 | 2666 | 2157 | 2186 | 2872 | 1742 |
| $50-54$ | 6208 | 5404 | 2578 | 3621 | 1981 | 3601 | 2319 | 2335 | 24 | 265 |
| $55-59$ | 9 | 5 | 8 | 16 | 12 | 6 | 8 | 18 | 33 | 20 |
| $60-64$ | 5738 | 6264 | 2630 | 5868 | 3211 | 7083 | 5190 | 4980 | 6315 | 3678 |
| $65-69$ | 9619 | 6911 | 3114 | 6095 | 3844 | 8052 | 4978 | 4829 | 9221 | 6174 |
| $70-79$ | 20381 | 15971 | 6898 | 15325 | 6965 | 17771 | 14510 | 13592 | 17337 | 10116 |
| $80-89$ | 14917 | 11766 | 5114 | 10648 | 7890 | 14945 | 11208 | 11087 | 13103 | 7632 |
| $>89$ | 4333 | 4601 | 2009 | 3761 | 1816 | 4687 | 2696 | 2977 | 3355 | 1848 |
|  | $\mathbf{6 4 4 9 3}$ | $\mathbf{5 3 5 6 0}$ | $\mathbf{2 3 7 1 2}$ | $\mathbf{4 7 4 2 2}$ | $\mathbf{2 6 8 3 5}$ | $\mathbf{5 8 8 1 1}$ | $\mathbf{4 3 0 6 7}$ | $\mathbf{4 2 0 0 3}$ | $\mathbf{5 2 2 6 0}$ | $\mathbf{3 1 4 7 5}$ |

Table E. 6 Total catch (tonnes) by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<1000$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1000-1199$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1200-1399$ | 4 | 2 | 4 | 3 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1400-1599$ | 2702 | 2650 | 1099 | 856 | 61 | 229 | 13 | 63 | 155 | 381 |
| $1600-1799$ | 3695 | 2623 | 1138 | 2290 | 1471 | 2901 | 2091 | 1965 | 103 | 29 |
| $1800-1999$ | 3300 | 2658 | 1548 | 2127 | 1172 | 2716 | 2189 | 2226 | 5389 | 3222 |
| $2000-2499$ | 16580 | 12044 | 5802 | 12238 | 8011 | 15686 | 11493 | 11276 | 13702 | 8621 |
| $2500-2999$ | 27 | 89 | 19 | 34 | 3004 | 4691 | 2722 | 4071 | 3360 | 1850 |
| $3000-3999$ | 29008 | 24657 | 10541 | 22774 | 10851 | 24078 | 18196 | 15913 | 21741 | 17373 |
| $>3999$ | 9178 | 8837 | 3561 | 7099 | 2266 | 8510 | 6363 | 6491 | 7810 | 0 |
|  | $\mathbf{6 4 4 9 3}$ | $\mathbf{5 3 5 6 0}$ | $\mathbf{2 3 7 1 2}$ | $\mathbf{4 7 4 2 2}$ | $\mathbf{2 6 8 3 5}$ | $\mathbf{5 8 8 1 1}$ | $\mathbf{4 3 0 6 7}$ | $\mathbf{4 2 0 0 3}$ | $\mathbf{5 2 2 6 0}$ | $\mathbf{3 1 4 7 5}$ |




## Loligo gahi-Patagonian squid

Length- frequency distribution and length-weight relationship during first season 2009


## Loligo gahi-Patagonian squid

Length- frequency distribution and length-weight relationship during second season 2009


Table F. 1 Total catch (tonnes) by vessel type and year

| VESSEL TYPE | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| JI | . | 147 | 1 | . | . | . | . | . | . | . |
| TR | . | . | . | 30 | 24 | 0 | . | . | . | 0 |
|  | . | $\mathbf{1 4 7}$ | $\mathbf{1}$ | $\mathbf{3 0}$ | $\mathbf{2 4}$ | $\mathbf{0}$ | . | . | . | $\mathbf{0}$ |

Table F. 2 Total catch (tonnes) by month and year

| MONTH | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | . | . | . | . | . | . | . | . | . | . |
| February | . | . | 1 | 6 | 20 | 0 | . | . | . | . |
| March | . | . | . | 2 | 4 | . | . | . | . | . |
| April | . | . | . | 2 | . | . | . | . | . | . |
| May | . | 110 | . | 13 | . | . | . | . | . | . |
| June | . | 37 | . | 6 | . | . | . | . | . | . |
| July | . | . | . | . | . | . | . | . | . | . |
| August | . | . | . | 1 | . | . | . | . | . | . |
| September | . | . | . | 0 | . | . | . | . | . | . |
| October | . | . | . | . | . | . | . | . | . | 0 |
| November | . | . | . | . | . | . | . | . | . | . |
| December | . | . | . | . | . | . | . | . | . | . |
|  | . | 147 | 1 | 30 | 24 | 0 | . | . | . | 0 |

Table F. 3 Total catch (tonnes) by fishing fleet and year

| Fishing fleet | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CB | . | 8 | . | . | . | . | . | . | . | . |
| ES | . | . | . | 2 | 17 | 0 | . | . | . | . |
| FK | . | . | . | 28 | 7 | . | . | . | . | 0 |
| JP | . | . | . | . | . | . | . | . | . | . |
| KR | . | . | . | . | . | . | . | . | . | . |
| TW | . | 139 | 1 | . | . | . | . | . | . | . |
|  | . | 147 | 1 | 30 | 24 | 0 | . | . | . | 0 |

Table F. 4 Total catch (tonnes) by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<400$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $400-599$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $600-799$ | $\cdot$ | 3 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $800-999$ | $\cdot$ | 144 | 1 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1000-1499$ | $\cdot$ | $\cdot$ | $\cdot$ | 27 | 11 | 0 | $\cdot$ | $\cdot$ | $\cdot$ | 0 |
| $1500-1999$ | $\cdot$ | $\cdot$ | $\cdot$ | 3 | 13 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $2000-2999$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $>2999$ | . | . | . | . | . | . | . | . | . | . |
|  | . | $\mathbf{1 4 7}$ | $\mathbf{1}$ | $\mathbf{3 0}$ | $\mathbf{2 4}$ | $\mathbf{0}$ | . | . | . | $\mathbf{0}$ |

Table F. 5 Total catch (tonnes) by length overall (m) (LOA) and year

| $\overline{\text { LOA }}$ | $2000$ | $2001$ | $2002$ | 2003 | $2004$ | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<45$ | . | . | - | . | . |  | . | - | . | . |
| 45-49 | . | . | . | . | . | . | . | . | . | . |
| 50-54 | . | 7 | . | 25 | 7 | . | . | . | . | . |
| 55-59 | . | 44 | 1 | 0 | . | . | . | . | . | . |
| 60-64 | . | $27$ | . | $1$ | . | . | . | . | . | . |
| 65-69 | . | $68$ | . | $3$ | $17$ | 0 | . | . | . | 0 |
| 70-79 | . |  | . | $1$ | . | . | . | . | - | . |
| 80-89 | . | . | . |  |  | . | - | . | . | . |
| $\geq 89$ | . | . | . | . | . | . | . | . | . | , |
|  | . | 147 | 1 | 30 | 24 | 0 | , | . | . | 0 |

Table F. 6 Total catch (tonnes) by brake horsepower (BHP) and year

| BHP | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<1000$ | . | . | . | . | . | . | . | . | . | . |
| 1000-1199 | . | . | . | . | . | . | . | . | . | . |
| 1200-1399 | . | . | . | . | . | . | . | . | . | . |
| 1400-1599 | . | 20 | . | 25 | 7 | . | . | . | . | . |
| 1600-1799 | . | 10 | . | 1 | . | . | . | . | . | . |
| 1800-1999 | . | 61 | 1 | 2 | 17 | 0 | . | . | . | . |
| 2000-2499 | . | 55 | . | 2 | , | , | . | . | . | 0 |
| 2500-2999 | . | . | . | . | . | . | . | . | . | . |
| 3000-3999 | . | . | . | . | . | . | . | . | . | . |
| $\geq 3999$ | . | . | . | . | . | . | . |  | . | . |
|  | . | 147 | 1 | 30 | 24 | 0 | . | . | . | 0 |

Table G. 1 Total catch (tonnes) by vessel type and year

| VESSEL TYPE | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 23371 | 25735 | 24908 | 20798 | 28553 | 17047 | 20533 | 22204 | 13208 | 10543 |
|  | $\mathbf{2 3 3 7 1}$ | $\mathbf{2 5 7 3 5}$ | $\mathbf{2 4 9 0 8}$ | $\mathbf{2 0 7 9 8}$ | $\mathbf{2 8 5 5 4}$ | $\mathbf{1 7 0 4 7}$ | $\mathbf{2 0 5 3 3}$ | $\mathbf{2 2 2 0 4}$ | $\mathbf{1 3 2 0 8}$ | $\mathbf{1 0 3 9 5}$ |

Table G. 2 Total catch (tonnes) by month and year

| MONTH | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 2999 | 4253 | 2476 | 4545 | 234 | 759 | 164 | 84 | 12 | 129 |
| February | 4484 | 3612 | 4563 | 6448 | 3155 | 811 | 383 | 515 | 243 | 139 |
| March | 3624 | 5564 | 5875 | 5328 | 3652 | 227 | 2029 | 172 | 252 | 339 |
| April | 939 | 2271 | 2443 | 1299 | 1785 | 158 | 303 | 84 | 150 | 126 |
| May | 83 | 294 | 580 | 40 | 103 | 142 | 86 | 11 | 42 | 51 |
| June | 4 | $\cdot$ | 17 | . | . | 7 | 6 | 0 | 0 | 6 |
| July | $\cdot$ | $\cdot$ | . | . | 7 | 1 | 0 | 56 | 70 | 3 |
| August | 87 | 79 | 302 | 32 | 598 | 527 | 145 | 865 | 662 | 608 |
| September | 2344 | 4385 | 668 | 1053 | 2192 | 4242 | 4772 | 8126 | 2817 | 2520 |
| October | 1121 | 3023 | 770 | 1337 | 6390 | 4705 | 6609 | 6549 | 3914 | 1947 |
| November | 4344 | 564 | 4147 | 597 | 6624 | 3899 | 3199 | 5400 | 3165 | 1877 |
| December | 3341 | 1689 | 3068 | 119 | 3814 | 1569 | 2837 | 342 | 1881 | 2651 |
|  | $\mathbf{2 3 3 7 1}$ | $\mathbf{2 5 7 3 5}$ | $\mathbf{2 4 9 0 8}$ | $\mathbf{2 0 7 9 8}$ | $\mathbf{2 8 5 5 4}$ | $\mathbf{1 7 0 4 7}$ | $\mathbf{2 0 5 3 3}$ | $\mathbf{2 2 2 0 4}$ | $\mathbf{1 3 2 0 8}$ | $\mathbf{1 0 3 9 5}$ |

Table G. 3 Total catch (tonnes) by fishing fleet and year

| Fishing fleet | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| BZ | 257 | 206 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| CL | 2723 | 6707 | 7155 | 5876 | 8218 | $\cdot$ | 1884 | 3260 | 1527 | $\cdot$ |
| EE | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 13 | $\cdot$ | 13 | $\cdot$ | $\cdot$ | $\cdot$ |
| ES | 3346 | 5246 | 3152 | 2865 | 4358 | 5275 | 5514 | 6810 | 2809 | 2450 |
| FK | 2704 | 4621 | 2814 | 2511 | 2690 | 1676 | 1773 | 3074 | 1753 | 1670 |
| JP | 14121 | 8918 | 11670 | 9515 | 12939 | 10023 | 11302 | 8896 | 6859 | 6173 |
| KR | 196 | 12 | 3 | 11 | 163 | 44 | 0 | 96 | 237 | 1 |
| NA | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| PT | 1 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| UK | 22 | 24 | 116 | 20 | 173 | 29 | 47 | 69 | 24 | 100 |
|  | $\mathbf{2 3 3 7 1}$ | $\mathbf{2 5 7 3 5}$ | $\mathbf{2 4 9 0 8}$ | $\mathbf{2 0 7 9 8}$ | $\mathbf{2 8 5 5 4}$ | $\mathbf{1 7 0 4 7}$ | $\mathbf{2 0 5 3 3}$ | $\mathbf{2 2 2 0 4}$ | $\mathbf{1 3 2 0 8}$ | $\mathbf{1 0 3 9 5}$ |

# Micromesistius australis - Southern Blue Whiting 

Table G. 4 Total catch (tonnes) by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $\mathbf{4 0 0 - 5 9 9}$ | $\cdot$ | $\cdot$ | $\cdot$ | 0 | $\cdot$ | 0 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $\mathbf{6 0 0 - 7 9 9}$ | 452 | 737 | 500 | 519 | 270 | 279 | 448 | 940 | 606 | 250 |
| $\mathbf{8 0 0 - 9 9 9}$ | 702 | 37 | 155 | 586 | 599 | 126 | 0 | 719 | 350 | 252 |
| $\mathbf{1 0 0 0 - 1 4 9 9}$ | 3265 | 8281 | 9545 | 7005 | 4145 | 4480 | 2472 | 3452 | 1465 | 1273 |
| $\mathbf{1 5 0 0 - 1 9 9 9}$ | 1005 | 1892 | 1439 | 474 | 1491 | 1653 | 4355 | 4763 | 3155 | 2334 |
| $\mathbf{2 0 0 0 - 2 9 9 9}$ | 1104 | 702 | 428 | 928 | 892 | 487 | 72 | 174 | 773 | 113 |
| $>\mathbf{2 9 9 9}$ | 16844 | 14085 | 12840 | 11285 | 21157 | 10023 | 13186 | 12156 | 6859 | 6173 |
|  | $\mathbf{2 3 3 7 1}$ | $\mathbf{2 5 7 3 5}$ | $\mathbf{2 4 9 0 8}$ | $\mathbf{2 0 7 9 8}$ | $\mathbf{2 8 5 5 4}$ | $\mathbf{1 7 0 4 7}$ | $\mathbf{2 0 5 3 3}$ | $\mathbf{2 2 2 0 4}$ | $\mathbf{1 3 2 0 8}$ | $\mathbf{1 0 3 9 5}$ |

Table G. 5 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | $\cdot$ | $\cdot$ | $\cdot$ | . | . | . | . | . | . | . |
| $\mathbf{4 5 - 4 9}$ | 511 | 87 | 226 | 115 | 610 | 155 | 98 | 272 | 85 | 143 |
| $\mathbf{5 0 - 5 4}$ | 797 | 1675 | 510 | 860 | 746 | 637 | 533 | 1357 | 845 | 717 |
| $\mathbf{5 5 - 5 9}$ | 829 | 1036 | 891 | 532 | 264 | 451 | 59 | 1014 | 97 | 142 |
| $\mathbf{6 0 - 6 4}$ | 698 | 2066 | 1150 | 997 | 1497 | 1749 | 1114 | 1180 | 1012 | 524 |
| $\mathbf{6 5 - 6 9}$ | 649 | 3220 | 7029 | 4711 | 2848 | 2886 | 3621 | 3885 | 3036 | 1657 |
| $\mathbf{7 0 - 7 9}$ | 1952 | 2869 | 2027 | 1727 | 602 | 609 | 1310 | 1662 | 449 | 441 |
| $\mathbf{8 0 - 8 9}$ | 1039 | 628 | 235 | 561 | 806 | 497 | 609 | 641 | 341 | 597 |
| $\mathbf{> 8 9}$ | 16897 | 14153 | 12840 | 11295 | 21180 | 10064 | 13188 | 12192 | 7345 | 6173 |
|  | $\mathbf{2 3 3 7 1}$ | $\mathbf{2 5 7 3 5}$ | $\mathbf{2 4 9 0 8}$ | $\mathbf{2 0 7 9 8}$ | $\mathbf{2 8 5 5 4}$ | $\mathbf{1 7 0 4 7}$ | $\mathbf{2 0 5 3 3}$ | $\mathbf{2 2 2 0 4}$ | $\mathbf{1 3 2 0 8}$ | $\mathbf{1 0 3 9 5}$ |

Table G. 6 Total catch (tonnes) by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 0 0 0}$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $\mathbf{1 0 0 0 - 1 1 9 9}$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | $\cdot$ | $\cdot$ | $\cdot$ | . |
| $\mathbf{1 2 0 0 - 1 3 9 9}$ | 236 | 564 | 273 | 77 | $\cdot$ | 66 | $\cdot$ | 3 | $\cdot$ | 5 |
| $\mathbf{1 4 0 0 - 1 5 9 9}$ | 737 | 1206 | 423 | 435 | 742 | 561 | 544 | 1624 | 682 | 897 |
| $\mathbf{1 6 0 0 - 1 7 9 9}$ | 77 | 353 | 328 | 1076 | 799 | 843 | 575 | 536 | 193 | 92 |
| $\mathbf{1 8 0 0 - 1 9 9 9}$ | 2581 | 3802 | 2368 | 1269 | 3351 | 3233 | 3676 | 4363 | 1512 | 1618 |
| $\mathbf{2 0 0 0 - 2 4 9 9}$ | 1178 | 2764 | 1962 | 1218 | 1286 | 1764 | 2423 | 3178 | 2915 | 1386 |
| $\mathbf{2 5 0 0 - 2 9 9 9}$ | 592 | 2233 | 6172 | 4488 | 176 | 79 | 2 | 132 | 722 | 1 |
| $\mathbf{3 0 0 0 - 3 9 9 9}$ | 1073 | 627 | 542 | 888 | 1036 | 439 | 75 | 182 | 288 | 223 |
| $>\mathbf{3 9 9 9}$ | 16897 | 14184 | 12842 | 11345 | 21163 | 10062 | 13238 | 12187 | 6895 | 6173 |
|  | $\mathbf{2 3 3 7 1}$ | $\mathbf{2 5 7 3 5}$ | $\mathbf{2 4 9 0 8}$ | $\mathbf{2 0 7 9 8}$ | $\mathbf{2 8 5 5 4}$ | $\mathbf{1 7 0 4 7}$ | $\mathbf{2 0 5 3 3}$ | $\mathbf{2 2 2 0 4}$ | $\mathbf{1 3 2 0 8}$ | $\mathbf{1 0 3 9 5}$ |


Catch (mt) by grid square)

Catch (mt) by grid square)

Length-frequency distribution and length-weght relationship in surimi fleet in 2009


## Micromesistius australis-Southern Blue Whiting

Length- frequency distribution and length-weight relationship in trawler fleets in 2009


## Macruronus magellanicus-Hoki

Table H. 1 Total catch (tonnes) by vessel type and year

| VESSEL TYPE | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CO | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |  | $\cdot$ | . | $\cdot$ | $\cdot$ | $\cdot$ |
| LO | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 0 | $\cdot$ | . | $\cdot$ |
| TR | 19831 | 19471 | 26970 | 23815 | 25904 | 16721 | 19761 | 16669 | 15902 | 23170 |
|  | $\mathbf{1 9 8 3 1}$ | $\mathbf{1 9 4 7 1}$ | $\mathbf{2 6 9 7 0}$ | $\mathbf{2 3 8 1 5}$ | $\mathbf{2 5 9 0 4}$ | $\mathbf{1 6 7 2 1}$ | $\mathbf{1 9 7 6 1}$ | $\mathbf{1 6 6 6 9}$ | $\mathbf{1 5 9 0 2}$ | $\mathbf{2 3 1 7 0}$ |

Table H. 2 Total catch (tonnes) by month and year

| MONTH | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 978 | 1541 | 589 | 969 | 506 | 269 | 660 | 1265 | 505 | 395 |
| February | 3105 | 1739 | 1970 | 5780 | 3517 | 2566 | 2520 | 2365 | 1128 | 2551 |
| March | 3700 | 1784 | 5268 | 1625 | 3821 | 954 | 1476 | 1376 | 865 | 4653 |
| April | 3244 | 2669 | 4404 | 3185 | 4868 | 1128 | 2070 | 2080 | 1342 | 3377 |
| May | 1220 | 2002 | 2031 | 1974 | 2496 | 894 | 2182 | 1591 | 1012 | 2278 |
| June | 476 | 582 | 1068 | 485 | 111 | 121 | 617 | 245 | 395 | 646 |
| July | 1057 | 799 | 3 | 154 | 55 | 304 | 256 | 513 | 593 | 1069 |
| August | 1590 | 833 | 2048 | 2026 | 2223 | 2378 | 2182 | 1720 | 1903 | 933 |
| September | 615 | 803 | 1481 | 2089 | 1452 | 1997 | 3201 | 1065 | 1716 | 2258 |
| October | 1281 | 3350 | 3177 | 3203 | 4907 | 3403 | 1964 | 2447 | 4152 | 1449 |
| November | 1792 | 3163 | 3590 | 1985 | 925 | 1756 | 2077 | 1580 | 1560 | 2904 |
| December | 774 | 204 | 1341 | 341 | 1022 | 951 | 557 | 422 | 730 | 656 |
|  | $\mathbf{1 9 8 3 1}$ | $\mathbf{1 9 4 7 1}$ | $\mathbf{2 6 9 7 0}$ | $\mathbf{2 3 8 1 5}$ | $\mathbf{2 5 9 0 4}$ | $\mathbf{1 6 7 2 1}$ | $\mathbf{1 9 7 6 1}$ | $\mathbf{1 6 6 6 9}$ | $\mathbf{1 5 9 0 2}$ | $\mathbf{2 3 1 7 0}$ |

Table H. 3 Total catch (tonnes) by fishing fleet and year

| Fishing fleet | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | . | . | . | . | . | . | . | . | . | . |
| BZ | 1720 | 374 | 1 | . | . | . | . | . |  |  |
| CL | 26 | 1300 | 2097 | 613 | 1533 |  | 247 | 343 | 114 | . |
| EE | . | . | . | . | 143 | . | 253 |  | . |  |
| ES | 10176 | 9653 | 12984 | 11357 | 11713 | 9014 | 12122 | 10350 | 9386 | 15172 |
| FK | 3404 | 5471 | 9804 | 9519 | 9689 | 5788 | 6091 | 5065 | 4129 | 5994 |
| FR | 0 | . | . | . | . | . | . | . | . | . |
| HN | . | . | . | . | . | . | . | . | . | . |
| IS | . | . | . | . | . | . | . | . | . | . |
| JP | 1889 | 866 | 1612 | 1596 | 1998 | 1203 | 743 | 141 | 1956 | 1038 |
| KR | 2541 | 1633 | 420 | 642 | 512 | 693 | 171 | 600 | 249 | 792 |
| NA | . | . | . | . | 7 | . | . | . | . | . |
| PA | . | . | . | . | . | . | . | 4 | . | . |
| PL | . | . | . | . | . | . | . | . | . | . |
| PT | 32 | . | . | . | . | . | . | . | . | . |
| RU | . | 144 | . | . | . | . | . | . | . | . |
| SC | . | . | . | . | . | . | . | . | . | . |
| UK | 42 | 30 | 52 | 88 | 308 | 23 | 135 | 166 | 69 | 174 |
| VC | . | 0 | . | . | . | . | . | . | . | . |
|  | 19831 | 19471 | 26970 | 23815 | 25904 | 16721 | 19761 | 16669 | 15902 | 23170 |

## Macruronus magellanicus-Hoki

Table H. 4 Total catch (tonnes) by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | 362 | 293 | $\cdot$ | . | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $\mathbf{4 0 0 - 5 9 9}$ | $\cdot$ | 130 | 17 | 53 | 24 | 27 | 32 | . | $\cdot$ | $\cdot$ |
| $\mathbf{6 0 0 - 7 9 9}$ | 2262 | 1842 | 3493 | 2018 | 1473 | 1136 | 1415 | 2426 | 1934 | 3521 |
| $\mathbf{8 0 0 - 9 9 9}$ | 2488 | 1269 | 902 | 2049 | 1684 | 1510 | 1261 | 1992 | 1672 | 4305 |
| $\mathbf{1 0 0 0 - 1 4 9 9}$ | 10433 | 10659 | 14144 | 12351 | 14515 | 10033 | 12316 | 8697 | 6046 | 9744 |
| $\mathbf{1 5 0 0 - 1 9 9 9}$ | 2091 | 2420 | 5169 | 4258 | 3547 | 2006 | 3264 | 2783 | 3911 | 4223 |
| $\mathbf{2 0 0 0 - 2 9 9 9}$ | 281 | 766 | 293 | 1757 | 1130 | 807 | 484 | 287 | 383 | 338 |
| $\mathbf{> 2 9 9 9}$ | 1915 | 2091 | 2952 | 1330 | 3532 | 1203 | 990 | 484 | 1956 | 1038 |
|  | $\mathbf{1 9 8 3 1}$ | $\mathbf{1 9 4 7 1}$ | $\mathbf{2 6 9 7 0}$ | $\mathbf{2 3 8 1 5}$ | $\mathbf{2 5 9 0 4}$ | $\mathbf{1 6 7 2 1}$ | $\mathbf{1 9 7 6 1}$ | $\mathbf{1 6 6 6 9}$ | $\mathbf{1 5 9 0 2}$ | $\mathbf{2 3 1 7 0}$ |

Table H. 5 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 4 5}$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | . | . | $\cdot$ |
| $\mathbf{4 5 - 4 9}$ | 1361 | 951 | 961 | 1247 | 1813 | 1340 | 919 | 1585 | 1478 | 1968 |
| $\mathbf{5 0 - 5 4}$ | 4085 | 3188 | 4571 | 3553 | 3949 | 3527 | 3103 | 3734 | 2134 | 4546 |
| $\mathbf{5 5 - 5 9}$ | 4507 | 2737 | 4177 | 2892 | 1068 | 1284 | 1856 | 1227 | 994 | 3146 |
| $\mathbf{6 0 - 6 4}$ | 3125 | 3491 | 2812 | 4176 | 3997 | 2775 | 4563 | 2545 | 3128 | 4948 |
| $\mathbf{6 5 - 6 9}$ | 1434 | 3063 | 5230 | 4301 | 8095 | 5329 | 5664 | 4297 | 2989 | 3521 |
| $\mathbf{7 0 - 7 9}$ | 3128 | 3202 | 6066 | 5240 | 1718 | 577 | 1707 | 2515 | 2222 | 3135 |
| $\mathbf{8 0 - 8 9}$ | 265 | 739 | 176 | 933 | 1723 | 679 | 896 | 242 | 950 | 833 |
| $\mathbf{8 8 9}$ | 1925 | 2099 | 2976 | 1474 | 3542 | 1210 | 1053 | 526 | 2008 | 1072 |
|  | $\mathbf{1 9 8 3 1}$ | $\mathbf{1 9 4 7 1}$ | $\mathbf{2 6 9 7 0}$ | $\mathbf{2 3 8 1 5}$ | $\mathbf{2 5 9 0 4}$ | $\mathbf{1 6 7 2 1}$ | $\mathbf{1 9 7 6 1}$ | $\mathbf{1 6 6 6 9}$ | $\mathbf{1 5 9 0 2}$ | $\mathbf{2 3 1 7 0}$ |

Table H. 6 Total catch (tonnes) by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 0 0 0}$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $\mathbf{1 0 0 0 - 1 1 9 9}$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $\mathbf{1 2 0 0 - 1 3 9 9}$ | 1172 | 826 | 1934 | 528 | $\cdot$ | 388 | 163 | 271 | 191 | 446 |
| $\mathbf{1 4 0 0 - 1 5 9 9}$ | 2919 | 1888 | 3150 | 2736 | 3545 | 2766 | 3340 | 3654 | 2823 | 6722 |
| $\mathbf{1 6 0 0 - 1 7 9 9}$ | 377 | 922 | 630 | 2116 | 1459 | 1029 | 2400 | 1349 | 1310 | 1885 |
| $\mathbf{1 8 0 0 - 1 9 9 9}$ | 7071 | 6935 | 8737 | 7734 | 9935 | 7102 | 7569 | 4602 | 3791 | 4854 |
| $\mathbf{2 0 0 0 - 2 4 9 9}$ | 3616 | 3887 | 7354 | 5495 | 5583 | 2888 | 4504 | 5262 | 5132 | 6955 |
| $\mathbf{2 5 0 0 - 2 9 9 9}$ | 2439 | 2126 | 1844 | 2010 | 416 | 512 | 217 | 593 | 291 | 790 |
| $\mathbf{3 0 0 0 - 3 9 9 9}$ | 312 | 781 | 327 | 1598 | 1383 | 746 | 518 | 364 | 332 | 480 |
| $\mathbf{> 3 9 9 9}$ | 1925 | 2106 | 2993 | 1600 | 3584 | 1290 | 1050 | 574 | 2033 | 1038 |
|  | $\mathbf{1 9 8 3 1}$ | $\mathbf{1 9 4 7 1}$ | $\mathbf{2 6 9 7 0}$ | $\mathbf{2 3 8 1 5}$ | $\mathbf{2 5 9 0 4}$ | $\mathbf{1 6 7 2 1}$ | $\mathbf{1 9 7 6 1}$ | $\mathbf{1 6 6 6 9}$ | $\mathbf{1 5 9 0 2}$ | $\mathbf{2 3 1 7 0}$ |


Catch (mt) by grid square)

Catch (mt) by grid square)

## Macruronus magellanicus-Hoki

Length- frequency distribution and length-weight relationship in trawler fleets in 2009



## Salilota australis - Red cod

Table I. 1 Total catch (tonnes) by vessel type and year

| VESSEL TYPE | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | 6 | . | $\cdot$ | $\cdot$ |
| TR | 6551 | 3896 | 2617 | 2285 | 2781 | 2467 | 3463 | 5195 | 4076 | 5079 |
|  | $\mathbf{6 5 5 1}$ | $\mathbf{3 8 9 6}$ | $\mathbf{2 6 1 7}$ | $\mathbf{2 2 8 5}$ | $\mathbf{2 7 8 1}$ | $\mathbf{2 4 6 7}$ | $\mathbf{3 4 6 9}$ | $\mathbf{5 1 9 5}$ | $\mathbf{4 0 7 6}$ | $\mathbf{5 0 7 9}$ |

Table I. 2 Total catch (tonnes) by month and year

| MONTH | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 451 | 210 | 33 | 57 | 80 | 4 | 73 | 82 | 110 | 148 |
| February | 796 | 291 | 165 | 248 | 362 | 202 | 222 | 290 | 189 | 328 |
| March | 599 | 369 | 539 | 95 | 188 | 62 | 215 | 423 | 506 | 530 |
| April | 859 | 547 | 446 | 264 | 350 | 114 | 558 | 502 | 350 | 480 |
| May | 633 | 617 | 250 | 254 | 271 | 149 | 290 | 504 | 426 | 603 |
| June | 81 | 65 | 40 | 58 | 13 | 36 | 59 | 77 | 59 | 159 |
| July | 431 | 67 | 0 | 3 | 94 | 97 | 196 | 338 | 101 | 214 |
| August | 822 | 297 | 171 | 235 | 258 | 492 | 571 | 905 | 421 | 669 |
| September | 747 | 342 | 263 | 343 | 436 | 676 | 623 | 1043 | 987 | 661 |
| October | 590 | 679 | 325 | 490 | 583 | 337 | 459 | 770 | 668 | 819 |
| November | 403 | 387 | 296 | 192 | 134 | 248 | 164 | 234 | 189 | 337 |
| December | 139 | 26 | 90 | 46 | 11 | 50 | 40 | 27 | 71 | 131 |
|  | $\mathbf{6 5 5 1}$ | $\mathbf{3 8 9 6}$ | $\mathbf{2 6 1 7}$ | $\mathbf{2 2 8 5}$ | $\mathbf{2 7 8 1}$ | $\mathbf{2 4 6 7}$ | $\mathbf{3 4 6 9}$ | $\mathbf{5 1 9 5}$ | $\mathbf{4 0 7 6}$ | $\mathbf{5 0 7 9}$ |

Table I. 3 Total catch (tonnes) by fishing fleet and year

| Fishing fleet | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU |  | . | . | . | . | . | . | . | . |  |
| BZ | 237 | 42 | . | . | . | . | . | . | . | . |
| CL | . | . | . | . | . | . | . | . | . | . |
| EE | . | . | . | . | . | . | 84 | . | . | . |
| ES | 3918 | 2222 | 1624 | 1279 | 1582 | 1579 | 2246 | 3997 | 3140 | 3737 |
| FK | 1886 | 1374 | 950 | 958 | 1024 | 746 | 1047 | 1127 | 900 | 1308 |
| FR | 29 | . | . | . | . | . | . | . | . | . |
| HN | . | . | . | . | . | . | . | . | . | . |
| IS | . | . | . | . | . | . |  | . | . | . |
| JP | 11 | . | 0 | . | 3 | . | 0 | 1 | . | 0 |
| KR | 429 | 219 | 28 | 40 | 85 | 125 | 60 | 49 | 17 | 11 |
| NA | . | . | . | . | 7 | . | . | . | . | . |
| PA | . | . | . | . | . | . | . | . | . | . |
| PL | . | . | . | . | . | . | . | . | . | . |
| PT | 12 | . | . | . | . | . | . | . | . | . |
| RU | . | 8 | . | . | . | . | . | . | . | . |
| SC |  |  |  |  |  |  |  |  |  |  |
| UK | 30 | 17 | 15 | 9 | 63 | 17 | 31 | 22 | 20 | 23 |
| UY | . | . | . | . | . | . | . | . | . | . |
| VC |  | 14 | . | . | . |  |  | . |  |  |
|  | 6551 | 3896 | 2617 | 2285 | 2781 | 2467 | 3469 | 5195 | 4076 | 5079 |

## Salilota australis - Red cod

Table I. 4 Total catch (tonnes) by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<400$ | 85 | 17 | . | . | . | . | . | $\cdot$ | $\cdot$ | $\cdot$ |
| $400-599$ | $\cdot$ | 11 | 1 | 0 | 2 | 14 | 4 | $\cdot$ | $\cdot$ | $\cdot$ |
| $600-799$ | 755 | 551 | 404 | 203 | 179 | 67 | 209 | 648 | 467 | 598 |
| $800-999$ | 763 | 261 | 122 | 228 | 210 | 135 | 216 | 721 | 610 | 569 |
| $1000-1499$ | 3514 | 2284 | 1498 | 1262 | 1248 | 1468 | 1855 | 2191 | 1303 | 2034 |
| $1500-1999$ | 900 | 511 | 474 | 278 | 828 | 600 | 1066 | 1571 | 1535 | 1747 |
| $2000-2999$ | 524 | 260 | 117 | 315 | 311 | 184 | 118 | 52 | 161 | 131 |
| $>2999$ | 11 | . | . | . | 3 | 0 | 0 | 1 | . | 0 |
|  | $\mathbf{6 5 5 1}$ | $\mathbf{3 8 9 6}$ | $\mathbf{2 6 1 7}$ | $\mathbf{2 2 8 5}$ | $\mathbf{2 7 8 1}$ | $\mathbf{2 4 6 7}$ | $\mathbf{3 4 6 9}$ | $\mathbf{5 1 8 3}$ | $\mathbf{4 0 7 6}$ | $\mathbf{5 0 7 9}$ |

Table I. 5 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<45$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | . | . | . | $\cdot$ |
| $45-49$ | 688 | 312 | 162 | 168 | 213 | 71 | 259 | 566 | 535 | 293 |
| $50-54$ | 869 | 630 | 439 | 358 | 362 | 379 | 519 | 892 | 539 | 653 |
| $55-59$ | 1519 | 578 | 454 | 317 | 199 | 126 | 212 | 485 | 265 | 486 |
| $60-64$ | 1021 | 669 | 309 | 339 | 347 | 442 | 410 | 829 | 623 | 1057 |
| $65-69$ | 508 | 458 | 292 | 280 | 1180 | 1158 | 1678 | 1787 | 1373 | 1770 |
| $70-79$ | 1590 | 1050 | 893 | 596 | 167 | 123 | 278 | 553 | 492 | 613 |
| $80-89$ | 326 | 186 | 50 | 218 | 303 | 159 | 102 | 63 | 215 | 153 |
| $>89$ | 30 | 12 | 19 | 9 | 9 | 9 | 10 | 9 | 34 | 53 |
|  | $\mathbf{6 5 5 1}$ | $\mathbf{3 8 9 6}$ | $\mathbf{2 6 1 7}$ | $\mathbf{2 2 8 5}$ | $\mathbf{2 7 8 1}$ | $\mathbf{2 4 6 7}$ | $\mathbf{3 4 6 9}$ | $\mathbf{5 1 8 3}$ | $\mathbf{4 0 7 6}$ | $\mathbf{5 0 7 9}$ |

Table I. 6 Total catch (tonnes) by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<1000$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1000-1199$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1200-1399$ | 357 | 224 | 156 | 71 | $\cdot$ | 4 | 51 | 112 | 40 | 83 |
| $1400-1599$ | 892 | 500 | 333 | 337 | 401 | 257 | 551 | 1134 | 926 | 851 |
| $1600-1799$ | 227 | 200 | 105 | 171 | 129 | 115 | 219 | 539 | 367 | 489 |
| $1800-1999$ | 2606 | 1567 | 1149 | 871 | 1399 | 1307 | 1661 | 2127 | 1603 | 1827 |
| $2000-2499$ | 1361 | 742 | 587 | 417 | 405 | 475 | 774 | 1148 | 939 | 1657 |
| $2500-2999$ | 543 | 386 | 156 | 93 | 75 | 114 | 66 | 57 | 51 | 63 |
| $3000-3999$ | 485 | 206 | 85 | 305 | 347 | 152 | 116 | 46 | 105 | 108 |
| $>3999$ | 80 | 71 | 47 | 21 | 24 | 43 | 31 | 20 | 46 | 0 |
|  | $\mathbf{6 5 5 1}$ | $\mathbf{3 8 9 6}$ | $\mathbf{2 6 1 7}$ | $\mathbf{2 2 8 5}$ | $\mathbf{2 7 8 1}$ | $\mathbf{2 4 6 7}$ | $\mathbf{3 4 6 9}$ | $\mathbf{5 1 8 3}$ | $\mathbf{4 0 7 6}$ | $\mathbf{5 0 7 9}$ |


Salilota australis


Catch (mt) by grid square)

## Salilota australis - Red cod

Length- frequency distribution and length-weight relationship in trawler fleets in 2009


## Merluccius spp - Hakes

Table J. 1 Total catch (tonnes) by vessel type and year

| VESSEL TYPE | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO |  |  |  |  |  | . | 5 | . | . | $\cdot$ |
| TR | 3069 | 1978 | 1678 | 1967 | 1927 | 2735 | 8433 | 11908 | 8805 | 13051 |
|  | $\mathbf{3 0 6 9}$ | $\mathbf{1 9 7 8}$ | $\mathbf{1 6 7 8}$ | $\mathbf{1 9 6 7}$ | $\mathbf{1 9 2 7}$ | $\mathbf{2 7 3 5}$ | $\mathbf{8 4 3 8}$ | $\mathbf{1 1 9 0 8}$ | $\mathbf{8 8 0 5}$ | $\mathbf{1 3 0 5 1}$ |

Table J. 2 Total catch (tonnes) by month and year

| MONTH | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 57 | 7 | 48 | 51 | 14 | 0 | 7 | 31 | 4 | 38 |
| February | 87 | 24 | 96 | 142 | 196 | 81 | 254 | 215 | 68 | 152 |
| March | 180 | 110 | 223 | 34 | 141 | 65 | 267 | 556 | 356 | 474 |
| April | 309 | 462 | 288 | 253 | 269 | 168 | 1098 | 1089 | 1115 | 2059 |
| May | 183 | 400 | 146 | 198 | 223 | 318 | 1002 | 3134 | 2078 | 2667 |
| June | 58 | 79 | 46 | 74 | 86 | 41 | 130 | 2321 | 1372 | 1044 |
| July | 419 | 140 | 6 | 31 | 144 | 163 | 415 | 1975 | 970 | 1238 |
| August | 934 | 338 | 244 | 263 | 441 | 698 | 2051 | 1879 | 1160 | 1412 |
| September | 604 | 202 | 388 | 633 | 261 | 854 | 1906 | 462 | 766 | 2343 |
| October | 179 | 166 | 113 | 215 | 128 | 277 | 964 | 201 | 794 | 1488 |
| November | 54 | 49 | 43 | 64 | 23 | 67 | 329 | 42 | 113 | 131 |
| December | 3 | 1 | 39 | 7 | 1 | 2 | 16 | 2 | 10 | 5 |
|  | $\mathbf{3 0 6 9}$ | $\mathbf{1 9 7 8}$ | $\mathbf{1 6 7 8}$ | $\mathbf{1 9 6 7}$ | $\mathbf{1 9 2 7}$ | $\mathbf{2 7 3 5}$ | $\mathbf{8 4 3 8}$ | $\mathbf{1 1 9 0 8}$ | $\mathbf{8 8 0 5}$ | $\mathbf{1 3 0 5 1}$ |

Table J. 3 Total catch (tonnes) by fishing fleet and year

| Fishing fleet | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | . | . | . | . | . | . | . | . | . |  |
| BZ | 63 | 4 | 0 | . | . | . | . | . | . |  |
| CL | . | 7 | 0 | . | 1 | . | . | . | . |  |
| EE | . | . | . | . | 6 | . | 66 | . | . |  |
| ES | 1522 | 1073 | 805 | 1021 | 810 | 1388 | 4837 | 7604 | 5327 | 8038 |
| FK | 1000 | 564 | 655 | 731 | 798 | 1003 | 3038 | 4022 | 3021 | 4696 |
| FR | 0 | . | . | . | . | . | . | . | . |  |
| HN | . | . | . | . | . | . | . | . | . |  |
| IS | . | . | . | . | . | . | . | . | . |  |
| JP | 54 | 2 | 75 | 28 | 8 | . | . | . | 0 |  |
| KR | 396 | 264 | 123 | 187 | 277 | 309 | 394 | 163 | 117 | 90 |
| NA | . | . | . | . | 0 | . | . | . | . |  |
| PA | . | . | . | . | . | . | . | . | . |  |
| PL | . | . | . | . | . | . | . | . | - |  |
| PT | 3 | . | . | . | . | . | . | . | . |  |
| RU | . | 47 | . | . | . | . | . | . | . |  |
| SC | . | . |  | . | . | . | . | . | . |  |
| UK | 30 | 12 | 20 | 1 | 26 | 35 | 103 | 120 | 341 | 228 |
| UY | . |  | . | 0 | . | . | . | . | . |  |
| VC | . | 5 | . | . | . | . | . | . | . |  |
|  | 3069 | 1978 | 1678 | 1967 | 1927 | 2735 | 8438 | 11908 | 8805 | 13051 |

## Merluccius spp - Hakes

Table J. 4 Total catch (tonnes) by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<400$ | 76 | 39 | $\cdot$ | 0 | 0 | . | . | . | . | $\cdot$ |
| $400-599$ | $\cdot$ | 40 | 24 | 8 | 20 | 21 | 33 | . | . | $\cdot$ |
| $600-799$ | 202 | 198 | 140 | 186 | 140 | 362 | 852 | 1198 | 872 | 1211 |
| $800-999$ | 363 | 188 | 174 | 204 | 326 | 487 | 1511 | 988 | 929 | 1763 |
| $1000-1499$ | 1890 | 1200 | 968 | 1199 | 1053 | 1564 | 4971 | 6831 | 4935 | 6730 |
| $1500-1999$ | 218 | 174 | 316 | 199 | 217 | 205 | 963 | 2346 | 1742 | 2842 |
| $2000-2999$ | 265 | 131 | 57 | 167 | 162 | 96 | 108 | 545 | 328 | 505 |
| $>2999$ | 54 | 9 | 0 | 5 | 9 | 0 | . | . | 0 | . |
|  | $\mathbf{3 0 6 9}$ | $\mathbf{1 9 7 8}$ | $\mathbf{1 6 7 8}$ | $\mathbf{1 9 6 7}$ | $\mathbf{1 9 2 7}$ | $\mathbf{2 7 3 5}$ | $\mathbf{8 4 3 8}$ | $\mathbf{1 1 9 0 8}$ | $\mathbf{8 8 0 5}$ | $\mathbf{1 3 0 5 1}$ |

Table J. 5 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<45$ | $\cdot$ | $\cdot$ | $\cdot$ | 0 | . | . | . | . | . | $\cdot$ |
| $45-49$ | 188 | 181 | 147 | 133 | 244 | 503 | 1526 | 1339 | 1118 | 1840 |
| $50-54$ | 390 | 269 | 243 | 300 | 331 | 574 | 1379 | 2248 | 800 | 996 |
| $55-59$ | 917 | 443 | 227 | 385 | 126 | 227 | 1095 | 1354 | 1210 | 1463 |
| $60-64$ | 392 | 296 | 262 | 430 | 306 | 340 | 1122 | 1700 | 2301 | 3291 |
| $65-69$ | 529 | 261 | 386 | 323 | 670 | 960 | 2652 | 4128 | 2351 | 2820 |
| $70-79$ | 337 | 418 | 371 | 287 | 137 | 40 | 506 | 609 | 633 | 2377 |
| $80-89$ | 261 | 95 | 36 | 100 | 103 | 92 | 157 | 531 | 377 | 243 |
| $>89$ | 55 | 15 | 6 | 8 | 9 | 0 | 1 | 0 | 15 | 20 |
|  | $\mathbf{3 0 6 9}$ | $\mathbf{1 9 7 8}$ | $\mathbf{1 6 7 8}$ | $\mathbf{1 9 6 7}$ | $\mathbf{1 9 2 7}$ | $\mathbf{2 7 3 5}$ | $\mathbf{8 4 3 8}$ | $\mathbf{1 1 9 0 8}$ | $\mathbf{8 8 0 5}$ | $\mathbf{1 3 0 5 1}$ |

Table J. 6 Total catch (tonnes) by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<1000$ | $\cdot$ | $\cdot$ | $\cdot$ | 0 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1000-1199$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1200-1399$ | 66 | 66 | 57 | 30 | $\cdot$ | 102 | 236 | 56 | 202 | 173 |
| $1400-1599$ | 235 | 218 | 230 | 244 | 335 | 716 | 1704 | 2214 | 1109 | 1684 |
| $1600-1799$ | 55 | 59 | 34 | 91 | 102 | 95 | 813 | 1166 | 1696 | 2104 |
| $1800-1999$ | 1192 | 824 | 561 | 826 | 634 | 817 | 3166 | 5246 | 3615 | 4531 |
| $2000-2499$ | 823 | 367 | 496 | 375 | 477 | 620 | 1946 | 2433 | 1403 | 3744 |
| $2500-2999$ | 348 | 293 | 216 | 205 | 183 | 255 | 361 | 130 | 126 | 101 |
| $3000-3999$ | 290 | 128 | 60 | 183 | 186 | 131 | 205 | 659 | 640 | 714 |
| $>3999$ | 59 | 23 | 23 | 14 | 10 | 0 | 6 | 5 | 16 | $\cdot$ |
|  | $\mathbf{3 0 6 9}$ | $\mathbf{1 9 7 8}$ | $\mathbf{1 6 7 8}$ | $\mathbf{1 9 6 7}$ | $\mathbf{1 9 2 7}$ | $\mathbf{2 7 3 5}$ | $\mathbf{8 4 3 8}$ | $\mathbf{1 1 9 0 8}$ | $\mathbf{8 8 0 5}$ | $\mathbf{1 3 0 5 1}$ |




## Merluccius spp - Hakes

Length- frequency distribution and length-weight relationship in M.hubbsi in trawler fleets in 2009



## Genypterus blacodes - Kingclip

Table K. 1 Total catch (tonnes) by vessel type and year

| VESSEL TYPE | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | $\cdot$ | $\cdot$ | $\cdot$ | . | . | . | 64 | . | . | $\cdot$ |
| TR | 1875 | 1625 | 1224 | 1274 | 1841 | 1936 | 2757 | 3592 | 2226 | 3395 |
|  | $\mathbf{1 8 7 5}$ | $\mathbf{1 6 2 5}$ | $\mathbf{1 2 2 4}$ | $\mathbf{1 2 7 5}$ | $\mathbf{1 8 4 1}$ | $\mathbf{1 9 3 6}$ | $\mathbf{2 8 2 1}$ | $\mathbf{3 5 9 2}$ | $\mathbf{2 2 2 6}$ | $\mathbf{3 3 9 5}$ |

Table K. 2 Total catch (tonnes) by month and year

| MONTH | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 55 | 64 | 8 | 21 | 54 | 3 | 57 | 84 | 80 | 70 |
| February | 125 | 79 | 57 | 110 | 192 | 149 | 213 | 327 | 107 | 138 |
| March | 126 | 95 | 282 | 29 | 114 | 56 | 173 | 370 | 231 | 214 |
| April | 280 | 319 | 234 | 143 | 289 | 84 | 322 | 460 | 222 | 320 |
| May | 166 | 259 | 85 | 102 | 172 | 73 | 221 | 330 | 234 | 437 |
| June | 26 | 36 | 20 | 28 | 19 | 29 | 35 | 60 | 54 | 179 |
| July | 178 | 36 | 1 | 16 | 95 | 58 | 77 | 204 | 107 | 258 |
| August | 313 | 177 | 58 | 141 | 263 | 291 | 405 | 711 | 326 | 481 |
| September | 259 | 154 | 45 | 271 | 144 | 350 | 530 | 498 | 437 | 428 |
| October | 158 | 202 | 225 | 224 | 354 | 523 | 494 | 356 | 240 | 548 |
| November | 152 | 193 | 169 | 154 | 132 | 255 | 253 | 166 | 142 | 195 |
| December | 39 | 12 | 40 | 36 | 12 | 65 | 41 | $\mathbf{2 5}$ | 48 | 126 |
|  | $\mathbf{1 8 7 5}$ | $\mathbf{1 6 2 5}$ | $\mathbf{1 2 2 4}$ | $\mathbf{1 2 7 5}$ | $\mathbf{1 8 4 1}$ | $\mathbf{1 9 3 6}$ | $\mathbf{2 8 2 1}$ | $\mathbf{3 5 9 2}$ | $\mathbf{2 2 2 6}$ | $\mathbf{3 3 9 5}$ |

Table K. 3 Total catch (tonnes) by fishing fleet and year

| Fishing fleet | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | . | . | . | . | . | . | . | . | . | . |
| BZ | 87 | 8 | 0 | . | . | . | . | . | . | . |
| CL | . | . | . | . | . | . | . | . | . | . |
| EE | . | . | . | . | 11 | . | 43 | . | . | . |
| ES | 1154 | 1086 | 857 | 818 | 1135 | 1184 | 1701 | 2735 | 1691 | 2623 |
| FK | 304 | 348 | 334 | 387 | 530 | 517 | 911 | 740 | 479 | 726 |
| FR | . | . | . | . | . | . | . | . | . | . |
| IS | . | . | . | . | . | . | . | . | . | - |
| JP | 2 | . | 4 | 0 | 4 | 0 | 0 | 2 | 0 | 1 |
| KR | 309 | 166 | 27 | 67 | 140 | 219 | 135 | 84 | 31 | 33 |
| NA | . | . | . | . | 0 | . | . | . | . | . |
| PA | . | . | . | . | . | . | . | . | . | . |
| PT | 13 | . | . | . | . | . | . | . | . | . |
| RU | . | 16 | . | . | . | . | . | . | . | . |
| SC | . | . | . | . | . | . | . | . | . | . |
| UK | 7 | 2 | 1 | 3 | 20 | 15 | 31 | 31 | 26 | 11 |
|  | 1875 | 1625 | 1224 | 1275 | 1841 | 1936 | 2821 | 3592 | 2226 | 3395 |

## Genypterus blacodes - Kingclip

Table K. 4 Total catch (tonnes) by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 0 0}$ | 64 | 24 |  | $\cdot$ | $\cdot$ | $\cdot$ | . | $\cdot$ | $\cdot$ | $\cdot$ |
| $\mathbf{4 0 0 - 5 9 9}$ | $\cdot$ | 19 | 3 | 1 | 5 | 34 | 13 | $\cdot$ | $\cdot$ | $\cdot$ |
| $\mathbf{6 0 0 - 7 9 9}$ | 371 | 408 | 305 | 224 | 127 | 102 | 215 | 458 | 393 | 675 |
| $\mathbf{8 0 0 - 9 9 9}$ | 285 | 146 | 70 | 186 | 325 | 225 | 333 | 565 | 297 | 431 |
| $\mathbf{1 0 0 0 - 1 4 9 9}$ | 974 | 838 | 661 | 680 | 921 | 1099 | 1650 | 1834 | 986 | 1456 |
| $\mathbf{1 5 0 0 - 1 9 9 9}$ | 149 | 144 | 175 | 121 | 376 | 383 | 569 | 692 | 533 | 814 |
| $\mathbf{2 0 0 0 - 2 9 9 9}$ | 31 | 46 | 8 | 63 | 82 | 92 | 42 | 41 | 18 | 19 |
| $\mathbf{> 2 9 9 9}$ | 2 | $\cdot$ | 1 | 0 | 4 | 0 | 0 | 2 | 0 | 1 |
|  | $\mathbf{1 8 7 5}$ | $\mathbf{1 6 2 5}$ | $\mathbf{1 2 2 4}$ | $\mathbf{1 2 7 5}$ | $\mathbf{1 8 4 1}$ | $\mathbf{1 9 3 6}$ | $\mathbf{2 8 2 1}$ | $\mathbf{3 5 9 2}$ | $\mathbf{2 2 2 6}$ | $\mathbf{3 3 9 5}$ |

Table K. 5 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 5}$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | . | . | $\cdot$ |
| $\mathbf{4 5 - 4 9}$ | 183 | 155 | 75 | 138 | 291 | 110 | 299 | 435 | 285 | 300 |
| $\mathbf{5 0 - 5 4}$ | 441 | 378 | 302 | 321 | 271 | 387 | 459 | 604 | 499 | 742 |
| $\mathbf{5 5 - 5 9}$ | 373 | 224 | 217 | 155 | 183 | 197 | 354 | 402 | 187 | 389 |
| $\mathbf{6 0 - 6 4}$ | 361 | 304 | 150 | 236 | 292 | 445 | 484 | 805 | 490 | 834 |
| $\mathbf{6 5 - 6 9}$ | 212 | 218 | 172 | 184 | 602 | 630 | 899 | 943 | 468 | 677 |
| $\mathbf{7 0 - 7 9}$ | 273 | 302 | 304 | 207 | 109 | 80 | 255 | 354 | 223 | 407 |
| $\mathbf{8 0 - 8 9}$ | 30 | 45 | 4 | 29 | 88 | 85 | 70 | 41 | 73 | 44 |
| $\mathbf{> 8 9}$ | 2 | $\cdot$ | 1 | 5 | 4 | 1 | 0 | 7 | 2 | 1 |
|  | $\mathbf{1 8 7 5}$ | $\mathbf{1 6 2 5}$ | $\mathbf{1 2 2 4}$ | $\mathbf{1 2 7 5}$ | $\mathbf{1 8 4 1}$ | $\mathbf{1 9 3 6}$ | $\mathbf{2 8 2 1}$ | $\mathbf{3 5 9 2}$ | $\mathbf{2 2 2 6}$ | $\mathbf{3 3 9 5}$ |

Table K. 6 Total catch (tonnes) by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{1 0 0 0}$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $\mathbf{1 0 0 0 - 1 1 9 9}$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | $\cdot$ |
| $\mathbf{1 2 0 0 - 1 3 9 9}$ | 185 | 218 | 146 | 88 | $\cdot$ | 13 | 65 | 133 | 57 | 127 |
| $\mathbf{1 4 0 0 - 1 5 9 9}$ | 258 | 178 | 161 | 229 | 377 | 232 | 609 | 856 | 661 | 914 |
| $\mathbf{1 6 0 0 - 1 7 9 9}$ | 91 | 71 | 49 | 153 | 81 | 126 | 232 | 427 | 265 | 338 |
| $\mathbf{1 8 0 0 - 1 9 9 9}$ | 635 | 589 | 518 | 469 | 876 | 884 | 1041 | 1194 | 638 | 1035 |
| $\mathbf{2 0 0 0 - 2 4 9 9}$ | 393 | 272 | 236 | 185 | 296 | 394 | 677 | 825 | 532 | 917 |
| $\mathbf{2 5 0 0 - 2 9 9 9}$ | 274 | 250 | 103 | 82 | 104 | 179 | 125 | 88 | 32 | 32 |
| $\mathbf{3 0 0 0 - 3 9 9 9}$ | 38 | 47 | 7 | 62 | 101 | 105 | 72 | 51 | 41 | 29 |
| $\mathbf{> 3 9 9 9}$ | 2 | 1 | 4 | 8 | 5 | 3 | 1 | 18 | 1 | 1 |
|  | $\mathbf{1 8 7 5}$ | $\mathbf{1 6 2 5}$ | $\mathbf{1 2 2 4}$ | $\mathbf{1 2 7 5}$ | $\mathbf{1 8 4 1}$ | $\mathbf{1 9 3 6}$ | $\mathbf{2 8 2 1}$ | $\mathbf{3 5 9 2}$ | $\mathbf{2 2 2 6}$ | $\mathbf{3 3 9 5}$ |


Catch (mt) by grid square)

Catch (mt) by grid square)

## Genypterus blacodes - Kingclip

Length- frequency distribution and length-weight relationship in trawler fleets in 2009



## Dissostichus eleginoides - Toothfish

Table L. 1 Total catch (tonnes) by vessel type and year

| VESSEL TYPE | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | 1554 | 1310 | 1440 | 1455 | 1725 | 1554 | 1244 | 1407 | 1368 | 1134 |
| PO | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | . | 263 | 59 | . | . |
| TR | 764 | 443 | 352 | 253 | 276 | 123 | 65 | 53 | 61 | 285 |
|  | $\mathbf{2 3 1 8}$ | $\mathbf{1 7 5 4}$ | $\mathbf{1 7 9 3}$ | $\mathbf{1 7 0 7}$ | $\mathbf{2 0 0 2}$ | $\mathbf{1 6 7 7}$ | $\mathbf{1 5 7 2}$ | $\mathbf{1 5 1 9}$ | $\mathbf{1 4 2 9}$ | $\mathbf{1 4 1 9}$ |

Table L. 2 Total catch (tonnes) by month and year

| MONTH | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 213 | 105 | 100 | 143 | 167 | 147 | 331 | 123 | 248 | 123 |
| February | 296 | 172 | 58 | 196 | 188 | 144 | 174 | 116 | 181 | 163 |
| March | 224 | 172 | 116 | 103 | 167 | 116 | 247 | 103 | 159 | 210 |
| April | 149 | 206 | 108 | 49 | 113 | 64 | 146 | 50 | 193 | 84 |
| May | 242 | 178 | 103 | 61 | 150 | 119 | 65 | 106 | 93 | 116 |
| June | 226 | 107 | 87 | 90 | 97 | 99 | 98 | 61 | 51 | 98 |
| July | 209 | 128 | 192 | 162 | 157 | 116 | 150 | 56 | 113 | 91 |
| August | 190 | 181 | 303 | 194 | 269 | 214 | 95 | 137 | 116 | 129 |
| September | 159 | 157 | 262 | 157 | 142 | 186 | 124 | 167 | 52 | 184 |
| October | 161 | 145 | 183 | 277 | 218 | 219 | 54 | 124 | 10 | 80 |
| November | 160 | 138 | 144 | 160 | 223 | 116 | 79 | 209 | 102 | 26 |
| December | 88 | 65 | 136 | 115 | 110 | 138 | 8 | 266 | 111 | 115 |
|  | $\mathbf{2 3 1 8}$ | $\mathbf{1 7 5 4}$ | $\mathbf{1 7 9 3}$ | $\mathbf{1 7 0 7}$ | $\mathbf{2 0 0 2}$ | $\mathbf{1 6 7 7}$ | $\mathbf{1 5 7 2}$ | $\mathbf{1 5 1 9}$ | $\mathbf{1 4 2 9}$ | $\mathbf{1 4 1 9}$ |

Table L. 3 Total catch (tonnes) by fishing fleet and year

| Fishing fleet | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | . | . | . | . | . | . | . | . | . | . |
| BZ | 27 | 11 | 0 | . | . | . | . | . | . | . |
| CL | . | . | . | . | . | . | . | 301 | . | . |
| EE | . | . | . | . | 0 | . | 0 | . | . | . |
| ES | 360 | 230 | 191 | 147 | 158 | 73 | 43 | 34 | 36 | 203 |
| FK | 928 | 1460 | 1323 | 967 | 1641 | 1597 | 1264 | 1123 | 1391 | 1210 |
| FR | 0 | . | . | . | . | . | . | . | . | . |
| HN | . | . | . | . | . | . | . | . | . | . |
| IS | . | . | . | . | . | . | . | . | . | . |
| JP | 1 | . | 2 | 0 | 0 | . | . | . | . | . |
| KR | 994 | 49 | 268 | 549 | 196 | 7 | 264 | 60 | 1 | . |
| NA | . | . | . | . | . | . | . | . | . | . |
| NO | . | . | . | . | . | . | . | . | . | . |
| NZ | . | . | . | 43 | . | . | . | . | . | . |
| PA | . | . | . | . | . | . | . | . | . | . |
| PT | 3 | . | . | . | . | . | . | . | . | . |
| SC | . | . | . | . | . | . | . | . | . | . |
| RU | . | 0 | . | . | . | . | . | . | . | . |
| UK | 6 | 3 | 8 | 1 | 6 | 0 | 1 | 1 | 0 | 5 |
| VC |  | 0 |  |  | . |  | . |  |  |  |
|  | 2318 | 1754 | 1793 | 1707 | 2002 | 1677 | 1572 | 1519 | 1429 | 1419 |

## Dissostichus eleginoides - Toothfish

Table L. 4 Total catch (tonnes) by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<400$ | 747 | 2 | 243 | 184 | 182 | . | . | . | . | . |
| $400-599$ | 75 | 1 | 2 | 346 | 0 | 0 | 0 | . | . | . |
| $600-799$ | 54 | 48 | 35 | 36 | 22 | 4 | 268 | 67 | 10 | 33 |
| $800-999$ | 884 | 1072 | 1112 | 746 | 1564 | 1556 | 1248 | 1108 | 1369 | 1166 |
| $1000-1499$ | 444 | 557 | 328 | 347 | 161 | 73 | 31 | 322 | 20 | 106 |
| $1500-1999$ | 83 | 47 | 59 | 33 | 58 | 28 | 25 | 21 | 29 | 88 |
| $2000-2999$ | 30 | 27 | 13 | 15 | 15 | 16 | 1 | 0 | 1 | 25 |
| $>2999$ | 1 | . | . | . | 0 | . | . | . | . | . |
|  | $\mathbf{2 3 1 8}$ | $\mathbf{1 7 5 4}$ | $\mathbf{1 7 9 3}$ | $\mathbf{1 7 0 7}$ | $\mathbf{2 0 0 2}$ | $\mathbf{1 6 7 7}$ | $\mathbf{1 5 7 2}$ | $\mathbf{1 5 1 9}$ | $\mathbf{1 4 2 9}$ | $\mathbf{1 4 1 9}$ |

Table L. 5 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<45$ | 551 | 358 | 136 | . | . | . | . | . | . | . |
| $45-49$ | 135 | 34 | 33 | 407 | 16 | 1 | 148 | 61 | 1 | 10 |
| $50-54$ | 860 | 106 | 306 | 246 | 904 | 858 | 718 | 529 | 990 | 1169 |
| $55-59$ | 339 | 1020 | 1118 | 921 | 890 | 723 | 662 | 592 | 392 | 26 |
| $60-64$ | 197 | 68 | 54 | 63 | 64 | 21 | 12 | 312 | 4 | 27 |
| $65-69$ | 71 | 41 | 59 | 38 | 102 | 52 | 25 | 14 | 23 | 75 |
| $70-79$ | 134 | 100 | 82 | 25 | 11 | 8 | 5 | 9 | 15 | 89 |
| $80-89$ | 27 | 24 | 2 | 7 | 14 | 13 | 3 | 1 | 3 | 16 |
| $>89$ | 2 | 0 | 1 | 1 | 0 | 1 | . | 0 | . | 5 |
|  | $\mathbf{2 3 1 8}$ | $\mathbf{1 7 5 4}$ | $\mathbf{1 7 9 3}$ | $\mathbf{1 7 0 7}$ | $\mathbf{2 0 0 2}$ | $\mathbf{1 6 7 7}$ | $\mathbf{1 5 7 2}$ | $\mathbf{1 5 1 9}$ | $\mathbf{1 4 2 9}$ | $\mathbf{1 4 1 9}$ |

Table L. 6 Total catch (tonnes) by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<1000$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1000-1199$ | $\cdot$ | $\cdot$ | $\cdot$ | 43 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1200-1399$ | 28 | 21 | 11 | 3 | $\cdot$ | 0 | 146 | 59 | $\cdot$ | $\cdot$ |
| $1400-1599$ | 372 | 1029 | 1115 | 1269 | 1598 | 1572 | 1258 | 1119 | 1382 | 1191 |
| $1600-1799$ | 735 | 16 | 264 | 243 | 213 | 8 | 120 | 304 | 5 | 20 |
| $1800-1999$ | 254 | 165 | 129 | 84 | 123 | 56 | 31 | 14 | 23 | 68 |
| $2000-2499$ | 703 | 426 | 217 | 31 | 36 | 21 | 15 | 20 | 17 | 110 |
| $2500-2999$ | 191 | 67 | 34 | 16 | 10 | 4 | 1 | 1 | 1 | 5 |
| $3000-3999$ | 32 | 29 | 19 | 15 | 20 | 15 | 1 | 1 | 1 | 25 |
| $>3999$ | 4 | 1 | 3 | 2 | 1 | 1 | . | . | . | $\cdot$ |
|  | $\mathbf{2 3 1 8}$ | $\mathbf{1 7 5 4}$ | $\mathbf{1 7 9 3}$ | $\mathbf{1 7 0 7}$ | $\mathbf{2 0 0 2}$ | $\mathbf{1 6 7 7}$ | $\mathbf{1 5 7 2}$ | $\mathbf{1 5 1 9}$ | $\mathbf{1 4 2 9}$ | $\mathbf{1 4 1 9}$ |

## Dissostichus eleginoides - Toothfish

Table L. 7 Total catch (tonnes) of combination vessels by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<400$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | $\cdot$ | $\cdot$ |
| $600-799$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | $263^{*}$ | $59^{*}$ | . | . |
|  | $\cdot$ | $\cdot$ | . | . | . | . | $\mathbf{2 6 3}$ | $\mathbf{5 9}$ | . | . |

*- potters

Table L. 8 Total catch (tonnes) of combination vessels by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $45-49$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $146^{*}$ | $59^{*}$ | $\cdot$ | $\cdot$ |
| $50-54$ | $\cdot$ | . | . | . | . | . | $117^{*}$ | . | . | . |
| $\mathbf{0}$ | . | . | . | . | . | . | $\mathbf{2 6 3}$ | $\mathbf{5 9}$ | . | . |

*- potters
Table L. 9 Total catch (tonnes) of combination vessels by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1200-1499$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $146^{*}$ | $59^{*}$ | $\cdot$ | $\cdot$ |
| $1600-1799$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $117^{*}$ | $\cdot$ | . | . |
| $\mathbf{0}$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | . | $\mathbf{2 6 3}$ | $\mathbf{5 9}$ | . | . |
| *- potters |  |  |  |  |  |  |  |  |  |  |

Table L. 10 Total catch (tonnes) of longliners by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<400$ | 724 | $\cdot$ | 243 | 184 | 182 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $400-599$ | 75 | $\cdot$ | $\cdot$ | 346 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $600-799$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |  | $\cdot$ | $\cdot$ |
| $800-999$ | 755 | 1011 | 1070 | 723 | 1543 | 1554 | 1244 | 1106 | 1368 | 1134 |
| $1000-1499$ | $\cdot$ | 299 | 127 | 202 | $\cdot$ | $\cdot$ | $\cdot$ | 301 | $\cdot$ | $\cdot$ |
|  | $\mathbf{1 5 5 4}$ | $\mathbf{1 3 1 0}$ | $\mathbf{1 4 4 0}$ | $\mathbf{1 4 5 5}$ | $\mathbf{1 7 2 5}$ | $\mathbf{1 5 5 4}$ | $\mathbf{1 2 4 4}$ | $\mathbf{1 4 0 7}$ | $\mathbf{1 3 6 8}$ | $\mathbf{1 1 3 4}$ |

Table L. 11 Total catch (tonnes) of longliners by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<45$ | 551 | 358 | 136 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $45-49$ | 75 | $\cdot$ | $\cdot$ | 389 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $50-54$ | 724 | $\cdot$ | 243 | 184 | 849 | 838 | 587 | 516 | 976 | 1134 |
| $55-59$ | 203 | 952 | 1061 | 881 | 876 | 716 | 657 | 590 | 392 | $\cdot$ |
| $60-64$ |  |  |  |  |  |  |  | 301 | $\cdot$ | $\cdot$ |
|  | $\mathbf{1 5 5 4}$ | $\mathbf{1 3 1 0}$ | $\mathbf{1 4 4 0}$ | $\mathbf{1 4 5 5}$ | $\mathbf{1 7 2 5}$ | $\mathbf{1 5 5 4}$ | $\mathbf{1 2 4 4}$ | $\mathbf{1 4 0 7}$ | $\mathbf{1 3 6 8}$ | $\mathbf{1 1 3 4}$ |

## Dissostichus eleginoides - Toothfish

Table L. 12 Total catch (tonnes) of longliners by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<1000$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1000-1199$ | $\cdot$ | $\cdot$ | $\cdot$ | 43 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1200-1399$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1400-1599$ | 278 | 952 | 1061 | 1227 | 1543 | 1554 | 1244 | 1106 | 1368 | 1134 |
| $1600-1799$ | 724 | $\cdot$ | 243 | 184 | 182 | $\cdot$ | $\cdot$ | 301 | $\cdot$ | $\cdot$ |
| $1800-1999$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $2000-2499$ | 551 | 358 | 136 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
|  | $\mathbf{1 5 5 4}$ | $\mathbf{1 3 1 0}$ | $\mathbf{1 4 4 0}$ | $\mathbf{1 4 5 5}$ | $\mathbf{1 7 2 5}$ | $\mathbf{1 5 5 4}$ | $\mathbf{1 2 4 4}$ | $\mathbf{1 4 0 7}$ | $\mathbf{1 3 6 8}$ | $\mathbf{1 1 3 4}$ |

Table L. 13 Total catch (tonnes) of trawlers by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<400$ | 23 | 2 | $\cdot$ | . | 0 | . | . | $\cdot$ | $\cdot$ | $\cdot$ |
| $400-599$ | $\cdot$ | 1 | 2 | 0 | 0 | 0 | 0 | . | . | $\cdot$ |
| $600-799$ | 54 | 48 | 35 | 36 | 22 | 4 | 5 | 8 | 10 | 33 |
| $800-999$ | 130 | 61 | 42 | 23 | 20 | 2 | 4 | 2 | 1 | 33 |
| $1000-1499$ | 444 | 258 | 200 | 146 | 161 | 73 | 31 | 21 | 20 | 106 |
| $1500-1999$ | 83 | 47 | 59 | 33 | 58 | 28 | 25 | 21 | 29 | 88 |
| $2000-2999$ | 30 | 27 | 15 | 15 | 15 | 16 | 1 | 0 | 1 | 25 |
| $>2999$ | 1 | . | . | . | 0 | . | . | . | . | . |
|  | $\mathbf{7 6 4}$ | $\mathbf{4 4 3}$ | $\mathbf{3 5 2}$ | $\mathbf{2 5 3}$ | $\mathbf{2 7 6}$ | $\mathbf{1 2 3}$ | $\mathbf{6 5}$ | $\mathbf{5 3}$ | $\mathbf{6 1}$ | $\mathbf{2 8 5}$ |

Table L. 14 Total catch (tonnes) of trawlers by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<45$ | - | $\cdot$ | $\cdot$ | $\cdot$ | . | . | . | . | . | $\cdot$ |
| $45-49$ | 60 | 34 | 33 | 18 | 16 | 1 | 2 | 2 | 1 | 10 |
| $50-54$ | 136 | 106 | 63 | 62 | 55 | 20 | 14 | 13 | 14 | 35 |
| $55-59$ | 136 | 69 | 57 | 39 | 13 | 7 | 5 | 2 | 0 | 26 |
| $60-64$ | 197 | 68 | 54 | 62 | 64 | 21 | 12 | 12 | 4 | 27 |
| $65-69$ | 71 | 41 | 59 | 38 | 102 | 52 | 25 | 14 | 23 | 75 |
| $70-79$ | 134 | 100 | 82 | 25 | 11 | 8 | 5 | 9 | 15 | 89 |
| $80-89$ | 27 | 24 | 2 | 7 | 14 | 13 | 3 | 1 | 3 | 16 |
| $>89$ | 2 | 0 | 1 | 1 | . | 1 | . | 0 | . | 5 |
|  | $\mathbf{7 6 4}$ | $\mathbf{4 4 3}$ | $\mathbf{3 5 2}$ | $\mathbf{2 5 3}$ | $\mathbf{2 7 6}$ | $\mathbf{1 2 3}$ | $\mathbf{6 5}$ | $\mathbf{5 3}$ | $\mathbf{6 1}$ | $\mathbf{2 8 5}$ |

Table L. 15 Total catch (tonnes) of trawlers by brake horsepower (BHP) and year

| $\mathbf{B H P}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<1000$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1000-1199$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1200-1399$ | 28 | 21 | 11 | 3 | $\cdot$ | 0 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1400-1599$ | 93 | 77 | 54 | 42 | 55 | 19 | 14 | 13 | 14 | 58 |
| $1600-1799$ | 11 | 16 | 21 | 58 | 31 | 8 | 3 | 3 | 5 | 20 |
| $1800-1999$ | 254 | 165 | 129 | 84 | 123 | 56 | 31 | 14 | 23 | 68 |
| $2000-2499$ | 151 | 68 | 81 | 31 | 36 | 21 | 15 | 20 | 17 | 110 |
| $2500-2999$ | 191 | 67 | 34 | 16 | 10 | 4 | 1 | 1 | 1 | 5 |
| $3000-3999$ | 32 | 29 | 19 | 15 | 20 | 15 | 1 | 1 | 1 | 25 |
| $>3999$ | 4 | 1 | 3 | 2 | 1 | 1 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
|  | $\mathbf{7 6 4}$ | $\mathbf{4 4 3}$ | $\mathbf{3 5 2}$ | $\mathbf{2 5 3}$ | $\mathbf{2 7 6}$ | $\mathbf{1 2 3}$ | $\mathbf{6 5}$ | $\mathbf{5 3}$ | $\mathbf{6 1}$ | $\mathbf{2 8 5}$ |


Catch (mt) by grid square)

Catch (mt) by grid square)

## Dissostichus eleginoides - Toothfish

Length- frequency distribution and length-weight relationship in longliner fleet in 2009



Dissostichus eleginoides - Toothfish
Length- frequency distribution and length-weight relationship in trawler fleets in 2009


## Rajidae - Skates and Rays

Table M. 1 Total catch (tonnes) by vessel type and year

| VESSEL TYPE | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | 161 | 101 | 96 | 152 | 168 | 75 | 150 | 42 | 28 | 22 |
| PO | $\cdot$ | $\cdot$ | . | . | . | . | 0 | . | . | . |
| TR | 3691 | 4207 | 3268 | 3836 | 4983 | 5623 | 4529 | 5621 | 3825 | 5843 |
|  | $\mathbf{3 8 5 3}$ | $\mathbf{4 3 0 9}$ | $\mathbf{3 3 6 4}$ | $\mathbf{3 9 8 8}$ | $\mathbf{5 1 5 1}$ | $\mathbf{5 6 9 8}$ | $\mathbf{4 6 7 9}$ | $\mathbf{5 6 6 3}$ | $\mathbf{3 8 5 3}$ | $\mathbf{5 8 6 5}$ |

Table M. 2 Total catch (tonnes) by month and year

| MONTH | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 217 | 199 | 196 | 32 | 1257 | 92 | 86 | 108 | 120 | 96 |
| February | 669 | 208 | 49 | 404 | 159 | 423 | 160 | 173 | 200 | 179 |
| March | 118 | 72 | 202 | 139 | 95 | 83 | 80 | 179 | 142 | 178 |
| April | 106 | 127 | 170 | 77 | 113 | 56 | 134 | 176 | 187 | 304 |
| May | 71 | 110 | 115 | 195 | 148 | 165 | 122 | 190 | 189 | 555 |
| June | 42 | 42 | 175 | 223 | 142 | 21 | 32 | 124 | 95 | 662 |
| July | 77 | 104 | 22 | 459 | 93 | 566 | 133 | 394 | 516 | 570 |
| August | 975 | 950 | 552 | 1596 | 1589 | 2267 | 1665 | 1999 | 1229 | 1327 |
| September | 1035 | 881 | 1248 | 592 | 1022 | 821 | 1019 | 1109 | 668 | 848 |
| October | 327 | 1294 | 431 | 161 | 352 | 490 | 881 | 722 | 220 | 406 |
| November | 178 | 306 | 168 | 81 | 59 | 590 | 305 | 141 | 119 | 511 |
| December | 38 | 16 | 35 | 29 | 120 | 125 | 62 | 350 | 167 | 228 |
|  | $\mathbf{3 8 5 3}$ | $\mathbf{4 3 0 9}$ | $\mathbf{3 3 6 4}$ | $\mathbf{3 9 8 8}$ | $\mathbf{5 1 5 1}$ | $\mathbf{5 6 9 8}$ | $\mathbf{4 6 7 9}$ | $\mathbf{5 6 6 3}$ | $\mathbf{3 8 5 3}$ | $\mathbf{5 8 6 5}$ |

Table M. 3 Total catch (tonnes) by fishing fleet and year

| Fishing fleet | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A U}$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| BZ | 48 | 201 | 10 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| CL | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 12 | $\cdot$ | $\cdot$ |
| EE | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 4 | $\cdot$ | 11 | $\cdot$ | $\cdot$ | $\cdot$ |
| ES | 415 | 430 | 555 | 412 | 515 | 634 | 1160 | 1745 | 1518 | 2661 |
| FK | 353 | 417 | 474 | 320 | 653 | 612 | 770 | 675 | 419 | 898 |
| FR | 0 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| HN | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| IS | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| IT | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| JP | $\cdot$ | $\cdot$ | 0 | $\cdot$ | 1 |  | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| KR | 3019 | 3218 | 2304 | 3241 | 3937 | 4413 | 2720 | 3197 | 1891 | 2262 |
| NA | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| NZ | $\cdot$ | $\cdot$ | $\cdot$ | 4 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| PA | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| PT | 0 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| RU | $\cdot$ | 12 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| UK | 17 | 26 | 19 | 5 | 16 | 16 | 11 | 34 | 25 | 44 |
| UY | $\cdot$ | 5 | 2 | 5 | 24 | 23 | 6 | $\cdot$ | $\cdot$ | $\cdot$ |
| VC | $\cdot$ | 0 | $\cdot$ | $\cdot$ |  | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
|  | $\mathbf{3 8 5 3}$ | $\mathbf{4 3 0 9}$ | $\mathbf{3 3 6 4}$ | $\mathbf{3 9 8 8}$ | $\mathbf{5 1 5 1}$ | $\mathbf{5 6 9 8}$ | $\mathbf{4 6 7 9}$ | $\mathbf{5 6 6 3}$ | $\mathbf{3 8 5 3}$ | $\mathbf{5 8 6 5}$ |

## Rajidae - Skates and Rays

Table M. 4 Total catch (tonnes) by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | 659 | 485 | 31 | 34 | 43 | . | . | . | $\cdot$ | $\cdot$ |
| $\mathbf{4 0 0 - 5 9 9}$ | 7 | 281 | 248 | 272 | 241 | 404 | 209 | . | . | . |
| $\mathbf{6 0 0 - 7 9 9}$ | 228 | 1425 | 707 | 1194 | 889 | 918 | 531 | 1230 | 957 | 1214 |
| $\mathbf{8 0 0 - 9 9 9}$ | 1615 | 1017 | 1250 | 1571 | 2636 | 2568 | 1861 | 2014 | 1298 | 1746 |
| $\mathbf{1 0 0 0 - 1 4 9 9}$ | 1197 | 949 | 805 | 636 | 904 | 1103 | 1713 | 1905 | 1299 | 2208 |
| $\mathbf{1 5 0 0 - 1 9 9 9}$ | 85 | 94 | 255 | 222 | 147 | 163 | 208 | 464 | 248 | 606 |
| $\mathbf{2 0 0 0 - 2 9 9 9}$ | 63 | 57 | 68 | 58 | 288 | 542 | 156 | 51 | 51 | 91 |
| $\mathbf{> 2 9 9 9}$ | . | . | 0 | . | 1 | . | . | . | . | . |
|  | $\mathbf{3 8 5 3}$ | $\mathbf{4 3 0 9}$ | $\mathbf{3 3 6 4}$ | $\mathbf{3 9 8 8}$ | $\mathbf{5 1 5 1}$ | $\mathbf{5 6 9 8}$ | $\mathbf{4 6 7 9}$ | $\mathbf{5 6 6 3}$ | $\mathbf{3 8 5 3}$ | $\mathbf{5 8 6 5}$ |

Table M. 5 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 74 | 47 | 15 | 1 | . | . | . | . | . | . |
| $\mathbf{4 5 - 4 9}$ | 48 | 701 | 427 | 905 | 636 | 661 | 529 | 1028 | 848 | 858 |
| $\mathbf{5 0 - 5 4}$ | 1765 | 1993 | 1792 | 2002 | 2938 | 3228 | 1951 | 2003 | 1208 | 1782 |
| $\mathbf{5 5 - 5 9}$ | 796 | 691 | 259 | 328 | 479 | 371 | 689 | 770 | 453 | 726 |
| $\mathbf{6 0 - 6 4}$ | 821 | 537 | 343 | 350 | 316 | 410 | 670 | 760 | 647 | 985 |
| $\mathbf{6 5 - 6 9}$ | 143 | 145 | 176 | 127 | 420 | 448 | 558 | 800 | 346 | 579 |
| $\mathbf{7 0 - 7 9}$ | 163 | 165 | 323 | 255 | 288 | 472 | 241 | 258 | 293 | 845 |
| $\mathbf{8 0 - 8 9}$ | 36 | 31 | 26 | 20 | 71 | 108 | 40 | 43 | 57 | 88 |
| $\mathbf{> 8 9}$ | 6 | . | 1 | . | 1 | . | 0 | 1 | 2 | 1 |
|  | $\mathbf{3 8 5 3}$ | $\mathbf{4 3 0 9}$ | $\mathbf{3 3 6 4}$ | $\mathbf{3 9 8 8}$ | $\mathbf{5 1 5 1}$ | $\mathbf{5 6 9 8}$ | $\mathbf{4 6 7 9}$ | $\mathbf{5 6 6 3}$ | $\mathbf{3 8 5 3}$ | $\mathbf{5 8 6 5}$ |

Table M. 6 Total catch (tonnes) by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{1 0 0 0}$ | $\cdot$ | 5 | 2 | 1 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $\mathbf{1 0 0 0 - 1 1 9 9}$ | $\cdot$ | $\cdot$ | . | 4 | $\cdot$ | . | . | . | . | . |
| $\mathbf{1 2 0 0 - 1 3 9 9}$ | 44 | 31 | 78 | 12 | $\cdot$ | 15 | 41 | 57 | 50 | 52 |
| $\mathbf{1 4 0 0 - 1 5 9 9}$ | 86 | 166 | 230 | 269 | 361 | 340 | 590 | 512 | 312 | 556 |
| $\mathbf{1 6 0 0 - 1 7 9 9}$ | 80 | 43 | 94 | 88 | 101 | 34 | 146 | 149 | 264 | 436 |
| $\mathbf{1 8 0 0 - 1 9 9 9}$ | 318 | 343 | 362 | 281 | 400 | 486 | 728 | 979 | 533 | 897 |
| $\mathbf{2 0 0 0 - 2 4 9 9}$ | 869 | 876 | 435 | 487 | 840 | 826 | 882 | 1037 | 914 | 1827 |
| $\mathbf{2 5 0 0 - 2 9 9 9}$ | 2377 | 2762 | 1934 | 2638 | 3143 | 3439 | 2126 | 2845 | 1706 | 1962 |
| $\mathbf{3 0 0 0 - 3 9 9 9}$ | 53 | 75 | 221 | 208 | 299 | 555 | 160 | 82 | 67 | 134 |
| $\mathbf{3 9 9 9}$ | 27 | 8 | 6 | 0 | 7 | 3 | 6 | 1 | 6 | . |
|  | $\mathbf{3 8 5 3}$ | $\mathbf{4 3 0 9}$ | $\mathbf{3 3 6 4}$ | $\mathbf{3 9 8 8}$ | $\mathbf{5 1 5 1}$ | $\mathbf{5 6 9 8}$ | $\mathbf{4 6 7 9}$ | $\mathbf{5 6 6 3}$ | $\mathbf{3 8 5 3}$ | $\mathbf{5 8 6 5}$ |



Catch (mt) by grid square)

## Rajidae - Skates and Rays

Length- frequency distribution and length-weight relationship in 2009 for Bathyraja brachiurops



## Zygochlamys patagonica - Scallop

Table N. 1 Total catch (tonnes) by vessel type and year

| VESSEL TYPE | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | . | 76 | 59 | 685 | 1279 | 1358 | 1161 | $14^{*}$ | $6^{*}$ | $13^{*}$ |
|  | . | $\mathbf{7 6}$ | $\mathbf{5 9}$ | $\mathbf{6 8 5}$ | $\mathbf{1 2 7 9}$ | $\mathbf{1 3 5 8}$ | $\mathbf{1 1 6 1}$ | $\mathbf{1 4 *}^{*}$ | $\mathbf{6}^{*}$ | $\mathbf{1 3}^{*}$ |

*     - No specialised fishery, just a discarded bycatch. Included into "others" in Tables O1-O7

Table N. 2 Total catch (tonnes) by month and year

| MONTH | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | . | . | 59 | . | 441 | 420 | 342 | . |  |  |
| February | . | . | . | . | 250 | 207 | 273 | 0 | 0 | 1 |
| March | . | . | . | . | 519 | 574 | 450 | 8 | 3 | 9 |
| April | . | . | . | . | . | 75 | 18 | 4 | 1 | 2 |
| May | . | . | . | 29 | . | . | 74 | . | . | . |
| June | . | . | . | 12 | . | . | . | . | . | . |
| July | . | . | . | . | . | 0 | . | 0 | 1 | . |
| August | . | . | . | . | . | 0 | . | 1 | 0 | . |
| September | . | . | . | . | . | . | . | . | 0 |  |
| October | - | . | . | . | 41 | . | . | . | . | 0 |
| November | . | . | . | 440 | 28 | 81 | 5 | . | . | . |
| December | . | 76 | . | 204 |  | . |  | . | . |  |
|  | . | 76 | 59 | 685 | 1279 | 1358 | 1161 | 14 | 6 | 13 |

Table N. 3 Total catch (tonnes) by fishing fleet and year

| Fishing fleet | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FK | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 12 | 7 | 13 | 6 | 12 |
| PA | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | . | 1 | . | . |
| UK | $\cdot$ | $\cdot$ | $\cdot$ | . | . | 1 | 3 | 0 | . | 0 |
| UY | . | 76 | 59 | 685 | 1279 | 1346 | 1152 | . | . | . |
|  | . | $\mathbf{7 6}$ | $\mathbf{5 9}$ | $\mathbf{6 8 5}$ | $\mathbf{1 2 7 9}$ | $\mathbf{1 3 5 8}$ | $\mathbf{1 1 6 1}$ | $\mathbf{1 4}$ | $\mathbf{6}$ | $\mathbf{1 3}$ |

## Zygochlamys patagonica - Scallop

Table N. 4 Total catch (tonnes) by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<400$ | $\cdot$ | 76 | 59 | 41 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $400-599$ | $\cdot$ | $\cdot$ | $\cdot$ | 644 | 1279 | 1346 | 1152 | $\cdot$ | $\cdot$ | $\cdot$ |
| $600-799$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $800-999$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 2 |
| $1000-1499$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 1 | $\cdot$ | 3 |
| $1500-1999$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 1 | 3 | 0 | $\cdot$ | 0 |
| $2000-2999$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 11 | 7 | 13 | 6 | 8 |
| $>2999$ | $\cdot$ | . | $\cdot$ | $\cdot$ | $\cdot$ |  | . | . | $\cdot$ | $\cdot$ |
|  | . | $\mathbf{7 6}$ | $\mathbf{5 9}$ | $\mathbf{6 8 5}$ | $\mathbf{1 2 7 9}$ | $\mathbf{1 3 5 8}$ | $\mathbf{1 1 6 1}$ | $\mathbf{1 4}$ | $\mathbf{6}$ | $\mathbf{1 3}$ |

Table N. 5 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<45$ | $\cdot$ | 76 | 59 | 41 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $45-49$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $50-54$ | $\cdot$ | $\cdot$ | $\cdot$ | 644 | 1279 | 1346 | 1152 | $\cdot$ | $\cdot$ | 2 |
| $55-59$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 4 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $60-64$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 1 | 2 | $\cdot$ | $\cdot$ | $\cdot$ |
| $65-69$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 7 | 3 | 0 | . | 4 |
| $70-79$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 1 | 4 | 1 | 2 | 1 |
| $80-89$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 1 | 12 | 3 | 6 |
| $>89$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |  | 0 | 0 | $\cdot$ |
|  | $\cdot$ | $\mathbf{7 6}$ | $\mathbf{5 9}$ | $\mathbf{6 8 5}$ | $\mathbf{1 2 7 9}$ | $\mathbf{1 3 5 8}$ | $\mathbf{1 6 6 1}$ | $\mathbf{1 4}$ | $\mathbf{6}$ | $\mathbf{1 3}$ |

Table N. 6 Total catch (tonnes) by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<1000$ | $\cdot$ | 76 | 59 | 41 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1000-1199$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1200-1399$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1400-1599$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1600-1799$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1800-1999$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 2 |
| $2000-2499$ | $\cdot$ | $\cdot$ | $\cdot$ | 644 | 1279 | 1347 | 1152 | $\cdot$ | . | 3 |
| $2500-2999$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 1 | 0 | $\cdot$ |
| $3000-3999$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 12 | 9 | 13 | 6 | 8 |
| $>3999$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | . | . | $\cdot$ |
|  | . | $\mathbf{7 6}$ | $\mathbf{5 9}$ | $\mathbf{6 8 5}$ | $\mathbf{1 2 7 9}$ | $\mathbf{1 3 5 8}$ | $\mathbf{1 1 6 1}$ | $\mathbf{1 4}$ | $\mathbf{6}$ | $\mathbf{1 3}$ |

Others

Table O. 1 Total catch (tonnes) by vessel type and year

| VESSEL TYPE | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CO | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | . | . | $33^{*}$ | . | . | $\cdot$ |
| LO | 377 | 272 | 217 | 225 | 183 | 163 | 152 | 116 | 110 | 90 |
| TR | 3660 | 1746 | 1025 | 1523 | 4897 | 10554 | 21830 | 31771 | 61928 | 59277 |
|  | $\mathbf{4 0 3 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{1 2 4 2}$ | $\mathbf{1 7 4 8}$ | $\mathbf{5 0 8 1}$ | $\mathbf{1 0 7 1 7}$ | $\mathbf{2 2 0 1 5}$ | $\mathbf{3 1 8 8 7}$ | $\mathbf{6 2 0 3 9}$ | $\mathbf{5 9 3 6 6}$ |

*-potters
Table O. 2 Total catch (tonnes) by month and year

| MONTH | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 206 | 117 | 28 | 63 | 147 | 19 | 455 | 588 | 2991 | 2801 |
| February | 441 | 269 | 73 | 155 | 770 | 838 | 3265 | 3340 | 7271 | 6750 |
| March | 407 | 255 | 158 | 61 | 508 | 476 | 2687 | 4024 | 10063 | 5140 |
| April | 467 | 450 | 203 | 82 | 716 | 373 | 3193 | 3862 | 8427 | 9589 |
| May | 489 | 189 | 47 | 73 | 495 | 645 | 2080 | 4507 | 8558 | 11084 |
| June | 119 | 30 | 19 | 21 | 59 | 146 | 631 | 558 | 2320 | 3154 |
| July | 130 | 24 | 28 | 44 | 273 | 217 | 814 | 2495 | 2173 | 2810 |
| August | 329 | 94 | 178 | 81 | 657 | 1252 | 2306 | 3517 | 4357 | 2836 |
| September | 491 | 142 | 183 | 239 | 622 | 2920 | 1905 | 3834 | 4861 | 3865 |
| October | 653 | 296 | 154 | 552 | 547 | 1001 | 2013 | 2775 | 5394 | 6640 |
| November | 215 | 131 | 78 | 296 | 264 | 2617 | 2433 | 1967 | 4573 | 3258 |
| December | 91 | 22 | 93 | 82 | 23 | 213 | 232 | 421 | 1051 | $\mathbf{1 4 3 9}$ |
|  | $\mathbf{4 0 3 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{1 2 4 2}$ | $\mathbf{1 7 4 8}$ | $\mathbf{5 0 8 1}$ | $\mathbf{1 0 7 1 7}$ | $\mathbf{2 2 0 1 5}$ | $\mathbf{3 1 8 8 7}$ | $\mathbf{6 2 0 3 9}$ | $\mathbf{5 9 3 6 6}$ |

Table O. 3 Total catch (tonnes) by fishing fleet and year

| Fishing fleet | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | . | . | . | . | . | . | . | . | . | . |
| BZ | 223 | 43 | 0 | . | . | . | . | . | . | . |
| CL | . | . | . | 2 | . | . | . | 32 | . | . |
| EE | . | . | . | . | 29 | . | 306 | . | . | . |
| ES | 2046 | 1011 | 496 | 850 | 2079 | 5201 | 11885 | 19456 | 42411 | 43449 |
| FK | 1344 | 774 | 624 | 686 | 2696 | 4984 | 9109 | 11360 | 18732 | 14846 |
| FR | . | . | . | . | . | . | . | . | . | . |
| HN | . | . | . | . | . | . | . | . | . | . |
| IS | . | . | . | . | . | . | . | . | . | . |
| IT | . | . | . | . | . | . | . | . | . | . |
| JP | 9 | . | 10 | 38 | 14 | 4 | 4 | 1 | 4 | 2 |
| KR | 401 | 189 | 112 | 135 | 113 | 78 | 127 | 93 | 65 | 123 |
| NA | . | . | . | . | 25 | . | . | . | . | . |
| NO | . | . | . | . | . | . | . | . | . | . |
| NZ | . | . | . | 22 | . | . | . | . | . | . |
| PA | . | . | . | . | . | . | . | 175 | . | . |
| PL | . | . | . | . | . | . | . | . | . | . |
| PT | 2 | . | . | . | . | . | . | . | . | . |
| RU | . | 0 | . | . | . | . | . | . | . | . |
| SC | . | . | . | . | . | . | . | . | . | . |
| UY |  |  |  |  |  | 0 | 11 | . | . | . |
| UK | 13 | . | . | 15 | 125 | 450 | 573 | 769 | 826 | 946 |
|  | 4037 | 2018 | 1242 | 1748 | 5081 | 10717 | 22015 | 31887 | 62039 | 59366 |

## Others

Table O. 4 Total catch (tonnes) by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<400$ | 76 | 25 | 48 | 38 | 26 | 0 | . | 0 | $\cdot$ | $\cdot$ |
| $400-599$ | 15 | 28 | 2 | 54 | 5 | 18 | 18 | $\cdot$ | $\cdot$ | $\cdot$ |
| $600-799$ | 295 | 129 | 81 | 125 | 98 | 127 | 776 | 2501 | 3947 | 3897 |
| $800-999$ | 603 | 443 | 296 | 199 | 498 | 648 | 1949 | 2687 | 6494 | 7402 |
| $1000-1499$ | 2361 | 1156 | 464 | 909 | 2960 | 5520 | 11762 | 16819 | 37377 | 36217 |
| $1500-1999$ | 320 | 70 | 170 | 232 | 789 | 2212 | 4464 | 6203 | 9293 | 8425 |
| $2000-2999$ | 358 | 166 | 172 | 174 | 684 | 2188 | 3043 | 3659 | 4923 | 3424 |
| $>2999$ | 9 | . | 10 | 17 | 14 | 4 | 4 | 18 | 4 | 2 |
|  | $\mathbf{4 0 3 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{1 2 4 2}$ | $\mathbf{1 7 4 8}$ | $\mathbf{5 0 8 1}$ | $\mathbf{1 0 7 1 7}$ | $\mathbf{2 2 0 1 5}$ | $\mathbf{3 1 8 8 7}$ | $\mathbf{6 2 0 3 9}$ | $\mathbf{5 9 3 6 6}$ |

Table O. 5 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<45$ | 240 | 112 | 61 | . | 0 | 0 | . | . | . | . |
| $45-49$ | 209 | 127 | 92 | 147 | 337 | 404 | 1938 | 3175 | 6191 | 6184 |
| $50-54$ | 766 | 376 | 231 | 271 | 708 | 1457 | 3176 | 2977 | 4204 | 4908 |
| $55-59$ | 565 | 440 | 200 | 393 | 249 | 673 | 2215 | 2676 | 8541 | 7578 |
| $60-64$ | 856 | 291 | 126 | 237 | 1368 | 2677 | 4921 | 8208 | 16145 | 15956 |
| $65-69$ | 478 | 304 | 161 | 345 | 1595 | 3179 | 5220 | 8635 | 15055 | 13535 |
| $70-79$ | 757 | 281 | 319 | 263 | 442 | 941 | 2561 | 4516 | 9280 | 9616 |
| $80-89$ | 77 | 54 | 16 | 43 | 356 | 1328 | 1613 | 1403 | 2334 | 1441 |
| $>89$ | 89 | 33 | 37 | 49 | 27 | 58 | 371 | 296 | 290 | 148 |
|  | $\mathbf{4 0 3 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{1 2 4 2}$ | $\mathbf{1 7 4 8}$ | $\mathbf{5 0 8 1}$ | $\mathbf{1 0 7 1 7}$ | $\mathbf{2 2 0 1 5}$ | $\mathbf{3 1 8 8 7}$ | $\mathbf{6 2 0 3 9}$ | $\mathbf{5 9 3 6 6}$ |

Table O. 6 Total catch (tonnes) by brake horsepower (BHP)
and year

| BHP | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<1000$ | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ | 0 | 0 | $\cdot$ | $\cdot$ | $\cdot$ | $\cdot$ |
| $1000-1199$ | $\cdot$ | $\cdot$ | $\cdot$ | 22 | $\cdot$ | 0 | $\cdot$ | . | $\cdot$ | $\cdot$ |
| $1200-1399$ | 120 | 53 | 48 | 93 | $\cdot$ | 50 | 438 | 1619 | 1960 | 1257 |
| $1400-1599$ | 547 | 422 | 240 | 250 | 627 | 890 | 3282 | 2396 | 6470 | 8152 |
| $1600-1799$ | 172 | 39 | 98 | 158 | 638 | 1152 | 2974 | 5275 | 11356 | 9726 |
| $1800-1999$ | 1424 | 733 | 262 | 621 | 1778 | 3881 | 7174 | 10735 | 20906 | 19806 |
| $2000-2499$ | 841 | 290 | 334 | 304 | 1096 | 1816 | 3970 | 6862 | 15191 | 15636 |
| $2500-2999$ | 554 | 314 | 75 | 92 | 110 | 108 | 440 | 520 | 349 | 262 |
| $3000-3999$ | 266 | 113 | 143 | 151 | 776 | 2367 | 2917 | 3904 | 5103 | 4526 |
| $>3999$ | 114 | 54 | 42 | 57 | 56 | 453 | 820 | 577 | 704 | 2 |
|  | $\mathbf{4 0 3 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{1 2 4 2}$ | $\mathbf{1 7 4 8}$ | $\mathbf{5 0 8 1}$ | $\mathbf{1 0 7 1 7}$ | $\mathbf{2 2 0 1 5}$ | $\mathbf{3 1 8 8 7}$ | $\mathbf{6 2 0 3 9}$ | $\mathbf{5 9 3 6 6}$ |

Table 0.7 Total catch (tonnes) of others by species in 2009

| Common name | Latin name | Catch |
| :--- | :--- | :---: |
| Blue Antimora | Antimora rostrata | 11 |
| Butterfish | Stromateus brasiliensis | 75 |
| Chinese Baby Face | Psychrolutes marmoratus | 0 |
| Crab | Lithodidae | 10 |
| Dogfish | Squalus acanthias | 0 |
| Eelpout | Iluocetes fimbriatus | 0 |
| Falkland Herring | Sprattus fuegensis | 0 |
| Flat fish | Mancopsetta spp. | 0 |
| Frogmouth | Cottoperca gobio | 16 |
| Greater Hooked Squid | Moroteuthis ingens | 87 |
| Grenadier | Macrouridae | 958 |
| Icefish | Chamsocephalus esox | 0 |
| Lobster Krill | Munida spp | 0 |
| Moonfish | Lampris immaculatus | 1 |
| Mullet | Eleginops maclovinus | 0 |
| Porbeagle | Lamna nasus | 3 |
| Red Fish | Sebastes oculatus | 31 |
| Rock cod | Patagonotothen spp. | 58149 |
| Scallop | Zygochlamys patagonica | 13 |
| Sculpin | Cottunculus granulosus | 0 |
| Smooth Oreo | Pseudocyttus maculatus | 0 |
| Others |  | 10 |
| Total |  | 59366 |


OTHERS (Rock cod not included)

OTHERS (Rock cod not included)
1st Season 2009 (01 Jan - 30 Jun)


Catch (mt) by grid square)


Catch (mt) by grid square)

## Patagonotothen ramsayi-Rock Cod

Length- frequency distribution and length-weight relationship in 2009


FALKLAND ISLANDS COMMERCLAL FISH \& SHELLFISH



[^0]:    *     - Cambodia is coded as CB for these statistics and Taiwan as TW.

[^1]:    * The 'G' licence was introduced in 1997. It represents a combination of the 'B' Illex squid licence and 'W' restricted finfish licences. It is limited to trawlers using nets with a minimum mesh size of 90 mm .

[^2]:    *     - A + Y since 2008; ** - F + R since 2008; *** - W + Z since 2008;

[^3]:    *     - Merluccius spp, ** - M.hubbsi, *** - M.australis

