## FALKLAND ISLANDS GOVERNMENT



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## FOREWORD

## FOREWORD

## 1 The Falkland Islands Fishery - 2018

Comparing to last year, the total annual catch in 2018 ( $\sim 187,500 \mathrm{t}$ ) improved by $\sim 20,000 \mathrm{t}$ and came close to the average catch for the last decade. Despite lower than usual Illex catch ( $\sim 54,400$ t ), catches of two other main commercial species, Doryteuthis gahi ( $\sim 80,000 \mathrm{t})$ and common hakes $(\sim 27,000 \mathrm{t})$ attained record high values since the middle of 1990s. Catches of all other finfish species (apart from toothfish) remained low.

### 1.1 Illex argentinus - Illex squid

The abundance of one of the largest commercial stocks in the Southwest Atlantic, I. argentinus fluctuated greatly in recent years, with a period of low abundance in 2009-2011, gradual recovery in 2012-2013, full recovery in 2014-2015, and another fall in 2016. In 2017 and 2018, the South Patagonian stock of Illex is on a recovering trend, but is suffering more exploitation pressure due to a dramatic increase of fishing effort on the high seas.

In January, the main stream of the Falkland Current was characterized by strong negative anomalies of the SST to the north of $48^{\circ} \mathrm{S}$. The sea surface temperatures (SST) were $1.5^{\circ} \mathrm{C}$ lower than the climate values in the first half of the month and reached $-2^{\circ} \mathrm{C}$ anomaly in the third week. Then thermal conditions got back to normal in the last week of January. By the end of the month, strong positive anomalies of SST started to develop to the west and east of the main stream of the Falkland Current to the north of $48^{\circ} \mathrm{S}$, creating temperature gradients that favoured to concentrate squid and fish. A record number of fishing vessels (around 400) was observed on the high seas, with about 300 jigging vessels spread over both $42^{\circ} \mathrm{S}$ and $45-46^{\circ} \mathrm{S}$ areas. Information on their catches was sporadic. Trawlers fished mainly rock cod there, with Illex being caught sporadically in relatively small quantities not exceeding 2-3 t per day.

In February, strong negative anomalies of SST in the main stream of the Falkland Current remained to the north of $47^{\circ} S$ throughout the month. Conversely, surface waters of the Patagonian shelf between 100 m and 200 m depths were characterized by positive SST anomalies, exceeding average climatological values by $1-1.5^{\circ} \mathrm{C}$. The end of month was characterized by high positive

SST anomalies in the northern part of FICZ/FOCZ. These oceanographic conditions are usually favourable for early migrations of Illex into Falkland waters. Catches on the high seas were variable throughout the month. Reported catches of Falkland licensed jiggers were low in the first three weeks of the month, with the mean CPUE varying between 3 and 6 t per night. Trawlers had variable, but better catches of small squid (17-20 cm ML), with the mean CPUEs ranging between 7 and 20 t per day. Maximum catch ( 50 t per day) was recorded in the middle of the month. In the last two days of February, dense aggregations of South Patagonian squid appeared from the Argentinean EEZ in the southern part of the high seas area, causing a significant improvement in catches of the jigging fleet. Mean CPUE increased to 17-22 t per night, with maximum catches up to 64 t per night.

The official start of the Illex fishery in Falkland waters was on 15 February. However, only 1 to 2 jiggers started to fish in the northern part of FICZ/FOCZ with low catches ( $2-4 \mathrm{t}$ per night). Some improvement in the Illex catches caused almost the whole licensed fleet (93-97 jiggers) to move to the northern part of FICZ where they had variable but higher catches (7-10 t per night, with maximum CPUE of 90 t per night). Higher catches on the high seas attracted the majority of the jigging fleet to move back to the high seas during the last two days of the month.

In the first ten days of March, sea surface temperatures to the northeast of the Falkland Islands were significantly higher than the average climatological values. Then, SST became closer to the mean-average values. Strong temperature gradient between the shelf waters and Falkland Current was situated over the shelf break. The Patagonian Shelf Water Inflow (PSWI) was well pronounced in the first half of March, beginning to weaken in the second half of the month. Oceanographic conditions were favourable for migrating schools of Illex to appear and concentrate over the shelf break in the northeast of FICZ. In the beginning of March, catches on jiggers decreased rapidly on the high seas, and the whole fleet moved to the northeast of FICZ by the end of the first week. Here, they found good concentrations of Early Maturing South Patagonian Stock (ESPS). CPUEs were relatively stable, varying between 15 and 29 t per night, with the maximum daily catch of 129 t per night. However, weakening of oceanographic gradients in the second half of March caused spreading of squid schools over a much larger area. That resulted in unstable fishing, with vessels moving back and forth from the northern part of FOCZ to north-eastern part of FICZ. Mean daily CPUEs varied from 5 to 12 t per night, with maximum CPUE 100 t per night. G -licensed trawlers had good catches of Illex (20-25 t per day) fishing mainly in the northeast of FICZ amongst the jigging fleet.

In April, surface waters on the Patagonian shelf between 100 m and 200 m depths were characterized by positive SST anomalies, exceeding mean climatological values by $0.5-1^{\circ} \mathrm{C}$ in the first half of the month, and up to $1-1.5^{\circ} \mathrm{C}$ in the second half of the month. The western boundary of the Falkland Current was situated to the east of its mean average position in the first half of the month. Then, it shifted slightly westwards but still did not create well resolved gradient zones. The whole jigging fleet ( 105 licensed vessels) worked within the FICZ/FOCZ throughout the month. As usual for this period of time, the vessels fished for Illex along the 200 m isobath in the northern and north-eastern parts of the Falkland Shelf in the first half of the month trying to target the ESPS
squid. Catches were relatively low (average CPUE of 6 t per vessel/night, with some vessels having maximum of 103 t per night). Variability of catches was high, as the squid were not concentrated in one particular area due to the lack of strong gradient zones of temperature. After emigration of the ESPS from Falkland waters, jiggers relocated to the western part of FICZ to fish for the Late maturing SPS, but its abundance was low. CPUE declined further in the second half of the month, with average CPUEs of only 3.5 t per night. Trawlers had relatively low catches of Illex only in the first half of the month (10-15 t per day).

In May, positive anomalies of sea surface temperatures $\left(1-1.5^{\circ} \mathrm{C}\right)$ were observed in the northwestern part of FICZ/FOCZ throughout the month. The abundance Late Maturing South Patagonian Stock (LSPS) was low that resulted in a very low total monthly catch ( $1,785 \mathrm{t}$ ). CPUEs of jiggers gradually decreased from 2 t per vessel night in the first week of May to less than a tonne of squid after 10 May. Several vessels had sporadic catches of up to 10 t per night, mainly in the north-western part of FICZ. Similar to the last year situation, Taiwanese jiggers started to move from the fishing grounds after $10^{\text {th }}$ of May, and by $15^{\text {th }}$ May, all of them left the Falkland fishing grounds. 24-27 Korean vessels remained in the fishery until $20^{\text {th }}$ May. By $25^{\text {th }}$ May, all jiggers had left the Illex fishery.

Overall, $54,405 \mathrm{t}$ of Illex were taken during the 2018 fishing season in Falkland waters. Additionally, $\sim 16,000 \mathrm{t}$ of Illex were caught by Falkland licensed jigging vessels on the high seas between 15 February and end of April 2018. Due to relatively high market price for Illex in 2018, there was no reimbursement of licence fees for jigging vessels.

### 1.2 Doryteuthis (formerly Loligo) gahi - Falkland calamari

Patagonian longfin squid or Falkland calamari (Doryteuthis gahi) is a domestic squid resource of the Falkland Islands. The Falkland stocks of D. gahi are stable due to conservation measures and regulations implemented through exclusive management by the Fisheries Department.

A biomass survey for first season recruitment was carried out onboard the fishing vessel Castelo from the $11^{\text {th }}$ to $25^{\text {th }}$ February. Fifty-nine scientific trawls were taken during the survey, catching 115 t of squid. An estimate of $32,194 \mathrm{t}$ of D . gahi was calculated for the fishing zone, of which 569 t were estimated north of $52^{\circ} \mathrm{S}$, and $31,625 \mathrm{t}$ were estimated south of $52^{\circ} \mathrm{S}$.

The first fishing season started on $27^{\text {th }}$ February. With reference to the previous season, all vessels were required to carry an observer tasked (at minimum) to monitor the presence and incidental capture of pinnipeds. Fourteen C-licensed trawlers started the season on opening day; one trawler delayed entry by one day for mechanical repairs, and one trawler delayed entry as it was replacing a damaged vessel. All 16 C-licensed trawlers started to fish in the southern part of the Loligo box, where dense aggregations of $D$. gahi were reported during the recruitment survey. CPUEs were high ( 35 to 45 t per day), with the maximum daily catch of 63.4 t per day. However, squid were generally smaller ( $8-10 \mathrm{~cm}$ ML) than in 2017.

Catches of Falkland calamari were very high and stable throughout the month, with mean CPUE of 51 t per day. Both northern and southern parts of the Loligo Box had dense concentrations of
squid. However, squid in the south were significantly smaller ( $8-9 \mathrm{~cm}$ mantle length) than in the north ( $11-12 \mathrm{~cm}$ ML). Due to conservations reasons (occurrence of large quantities of small sized squid), the whole area of the Loligo Box to the south of $52^{\circ} \mathrm{S}$ was closed for fishing from 22 to 31 March. This closure did not have an impact on the fishing performance of trawlers, as they found dense concentrations of calamari in the northern part of the Box and fished there until the end of the month. On $8^{\text {th }}$ March, the fleet caught a total of $1,203 \mathrm{t}$ of calamari, which was the record high daily catch of this squid in the fishing history.

After a test period of open fishing, the Loligo Box was again closed south of $52^{\circ} \mathrm{S}$ and east of $59.5^{\circ} \mathrm{W}$ from April $12^{\text {th }}$ through April $16^{\text {th }}$, due to continued concern over the small sizes of $D$. gahi in the south. The use of Seal Exclusion Devices (SEDs) was mandated in the north sub-area of the Loligo Box from April $26^{\text {th }}$ until the end of the season, following four reported fishing mortalities of Southern sea lions in the north. Similar to last year, excellent performance in the D. gahi fishery was reported in April. In the first half of the month, trawlers fished for squid exclusively in the northern part of the Loligo Box. Especially high catches were reported in the first week, with mean CPUEs attaining 70-75 t per vessel/day (maximum daily catch 115 t per day). Then catches gradually decreased during the second week (CPUEs of 37 t per day). In the second half of the month, both northern and southern part of the Loligo Box yielded good catches with mean CPUEs of 28 t per day. All squid caught at this time belonged to the autumn-spawning cohort, with average mantle length of 11-12 cm. The use of SEDs was additionally mandated in the south sub-area of the Loligo Box for the last few days from May $3{ }^{\text {rd }}$ until the end of the season, following two reported fishing mortalities of South American fur seals in the south.

Total catch of $D$. gahi for the first season reached $43,085 \mathrm{t}$, the highest first season catch since 1995. The estimated escapement biomass of D. gahi squid remaining after the end of the first season was $31,356 \mathrm{t}$, with zero risk of overfishing and falling below the threshold limit of $10,000 \mathrm{t}$.

A biomass survey for second season recruitment was carried out onboard the fishing vessel Venturer from the $14^{\text {th }}$ to $28^{\text {th }}$ July. Fifty-three scientific trawls were taken during the survey, catching 510 tonnes of $D$. gahi squid. The results of the survey obtained an estimate of $183,593 \mathrm{t}$ of squid present in the fishing zone, of which $61,262 \mathrm{t}$ north of $52^{\circ} \mathrm{S}$, and $122,331 \mathrm{t}$ south of $52^{\circ} \mathrm{S}$. This represented the highest estimate for a second season since the RRAG initial biomass estimate of 264,000 t in 1992.

The second commercial D. gahi season started as scheduled on $29^{\text {th }}$ July, with all 16 X-licensed vessels fishing in the northern and southern part of the Loligo box. As found during the prerecruitment survey, the abundance of squid was high throughout the whole fishing area, and daily CPUEs were very high ranging from 62 to 65 t per day, with the maximum catch of 106 t per day. The total catch of D. gahi in July attained 3,745 t, which is the record catch for July since the shortening of the second season. All trawlers started to work without seal exclusion devices (SED). As in the previous season, all vessels were required to embark an observer to monitor the presence and incidental capture of seals.

The occurrence of seal mortalities resulted in mandatory use of SEDs in the south sub-area of the Loligo Box starting on $5^{\text {th }}$ August, and in the north sub-area of the Loligo Box starting on $7^{\text {th }}$ Au-
gust, for the rest of the season. Sixteen X-licensed trawlers fished for D. gahi in August, with both northern and southern parts of the Loligo Box having dense aggregations of squid. During the first half of the month, vessels had very high CPUEs, ranging between 65 to 79 t per vessel/day, with the maximum CPUE of 106 t per vessel/day. Many vessels fished up to their freezing capacity during this period. In the second half of the month, CPUE gradually decreased to $25-28 \mathrm{t}$ per vessel/ day. The size of squid was also good - ranging from 10 to 17 cm mantle length, with modal length of $12-13 \mathrm{~cm}$.

Sixteen trawlers fished for D. gahi until $23^{\text {rd }}$ September when the effort allocation for one vessel (Petrel) expired and she left the fishery. The catches gradually decreased throughout the month, from 25 t per vessel/day during the first half of September to 16 t per vessel/day in the second half.

Total catch of $D$. gahi for the second season was $35,828 \mathrm{t}$, the highest second season catch since 2010 (but with ten fewer fishing days). The estimated escapement biomass of D. gahi squid remaining after the end of the second season was $35,910 \mathrm{t}$, with $0.9 \%$ risk of overfishing and falling below the threshold limit of $10,000 \mathrm{t}$.

An additional 1,082 t of D. gahi were reported caught in Falklands fisheries other than C or Xlicensed. The total catch for the year thus attained $79,995 \mathrm{t}$, making it the highest annual catch since 1995.

### 1.3 Martialia hyadesi - Martialia squid

As in many previous years, no catch of Martialia squid was reported within the FICZ/FOCZ.

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

Southern blue whiting (BLU) is a pelagic species that migrates between Chilean, Argentine and Falkland Islands waters, making its management challenging. Spawning grounds are located to the south of the Falkland Islands and along the southern coast of Chile, and spawning takes place during September and October. Chilean production of BLU increased from 1989 to 1998 with a subsequent decrease in catch since 1999. Argentine and Falkland Islands BLU catch have a declining trend since the early 1990's. In 1999, the South Atlantic Fisheries Commission recommended a reduction of the fishing mortality of this stock to meet conservation targets. Catches in Argentina were greater than in Chile and the Falkland Islands from 1991 to 2007, and again from 2015. However, catches in the Falkland Islands have remained low, in part due to little to no effort reported on S-licence, and a ban of any fishing activity on the Falkland spawning grounds was established for conservation reasons since 2010.

In 2018, BLU was caught under A, E, G, W, and X-licences. Although catches of BLU increased in 2016, low catches were again observed in 2017 and decreased further in 2018. The total catch of BLU in 2018 was 992 t , which is the lowest annual catch since 1987. The highest annual catch over the same period of time was recorded in $1990(72,351 \mathrm{t})$.

W-licensed vessels reported the highest catch (846 t) during 2018, with catches < 50 t per month except for the highest catch ( 703 t ) reported in August.

Approximately 53 t were caught under G-licence during March (23t), April (21t) and May (9t); effort ranged from $2,079 \mathrm{~h}$ to $1,849 \mathrm{~h}$ and occurred mainly along the west and north of the Falkland Islands. X-licensed vessels caught approximately 35 t of BLU; most of this catch occurred in September ( 34.5 t ). E-licensed vessels caught 30 t of BLU mainly during February. A-licensed vessels caught 28 t , most of which was caught in December ( 27 t ).

Most of the fishing effort by W and G-licences during 2018 occurred along the West and North of the FICZ. However, most of the catch took place at the Southwest of the Falkland Islands.

### 1.5 Macruronus magellanicus - hoki

Hoki, Macruronus magellanicus, has been one of the most abundant pelagic fish on the Patagonian shelf. Genetic studies and otolith microchemistry analysis suggested connectivity within the Southwest Atlantic, and between the Southwest Atlantic and the Southeast Pacific. Hence, it is likely that the same populations are partially targeted in Chilean, Argentine, and Falkland waters. Hoki stocks strongly declined in Chile since 2000. In contrast, catches in the Southwest Atlantic had an increasing trend prior to 2000, with a subsequent decline in Argentina since 2000 and in Falkland Islands waters over the past five years. From 2017 to 2018 there was a slight increase in catch in Argentina and Falkland Islands; 2018 catch data from Chile was not available by the time this report was produced.

Spawning occurs during the austral winter mainly in Chilean waters between $43^{\circ} \mathrm{S}$ and $48^{\circ} \mathrm{S}$. Most hoki migrate out of Falkland Islands waters to spawn during winter, although small spawning areas have been detected at the shelf edge east of the Falkland Islands. This species is not highly abundant in Falkland waters as the FICZ is at the edge of the species distribution. However, it is targeted mainly by trawlers during spring, summer and autumn in deep waters to the southwest of West Falkland when hoki is relatively more abundant.

In the Falkland Islands, a total of $4,438 \mathrm{t}$ of hoki were caught under A, B, C, E, F, G, W, and Xlicences during 2018. This is the second lowest catch observed since 1987, which could be the result of many factors such as oceanographic conditions or overfishing on the Patagonian Shelf and in the Pacific. The highest annual catch since 1987 was observed in 2002 ( $26,977 \mathrm{t}$ ).

The highest catch was reported by W-licensed vessels ( $2,363 \mathrm{t}$ ). February and March had relatively high catches with 608 t and 463 t , respectively. Catches then decreased through the year, except for December with 811 t caught. Effort had an increasing trend from January (0 h) to December ( 855 h ), with a maximum of $1,066 \mathrm{~h}$ in November. CPUE was highly variable throughout the year, with maximum values in February and March ( 1,905 and $2,297 \mathrm{~kg} \cdot \mathrm{~h}^{-1}$, respectively). CPUE was nil in April due to the limited effort during that month ( 10 h ) but had a peak in May ( $936 \mathrm{~kg} \cdot \mathrm{~h}^{-1}$ ) and remained relatively low from June through November ( $<160 \mathrm{~kg} \cdot \mathrm{~h}^{-1}$ ); high CPUE was reported again in December ( $949 \mathrm{~kg} \cdot \mathrm{~h}^{-1}$ ).

The second highest catch ( $1,779 \mathrm{t}$ ) of the year was reported by G-licensed trawlers that fished during March ( 437 t ), April ( 468 t ), and May ( 875 t ). CPUE was 296, 225 and $473 \mathrm{~kg} \cdot \mathrm{~h}^{-1}$ from March through May, respectively. Fishing effort was high, with $1,479 \mathrm{~h}$ in March, followed by $2,079 \mathrm{~h}$ in

April and $1,849 \mathrm{~h}$ in May. A total of 234 t were caught by A-licensed vessels, with $>50 \mathrm{t}$ caught only in May and November. Effort ranged from 0 to $2,148 \mathrm{~h}$, and CPUE from $0 \mathrm{~kg} \cdot \mathrm{~h}^{-1}$ to $306 \mathrm{~kg} \cdot \mathrm{~h}$ ${ }^{-1}$. Fishing effort by W and G-licences was spread along the West and North of the FICZ with most of the catch taking place in the southwest.

### 1.6 Merluccius hubbsi, Merluccius australis - Hakes

Two commercial species of hake occur in Falkland waters, common hake Merluccius hubbsi and Patagonian hake Merluccius australis. Common hake is less valuable but significantly more abundant than Patagonian hake. Both species of hake migrate between Argentine, Chilean and Falkland Islands waters. Common hake is more abundant in Argentine waters from November to March during the spawning season and then migrate to Falkland waters where foraging grounds are. In Falkland waters common hake is found in the northwest of the FICZ. Patagonian hake is more abundant in Chilean waters than in Falkland Islands waters which are at the edge of their species range. Highest abundance of this fish is encountered in deep waters to the southwest of West Falkland. This species is taken as a bycatch in the finfish trawl fleet as low abundance prevent it from being targeted.

In 2018, hake was the most abundant finfish in catches within FICZ/FOCZ, making up $20 \%$ of the total catch for the year. In fact, total annual catch of hakes was exceptional ( $27,020 \mathrm{t}$ ), ranking second only to $1988(51,489 \mathrm{t})$ and more than $15 \%$ higher than the next highest year ( $2016 ; 23,363 \mathrm{t}$ ). Conversely to many other species whose catches have declined in recent years, hake seems to be displacing other species in the FICZ as a result of its sheer abundance. Hake arrived later into the FICZ relative to previous years, with catches jumping from 1,130 tin April to 5,183 tin May. Additionally, hake departed later towards their spawning grounds in the Argentine EEZ ( $3,177 \mathrm{t}$ in October). October's total catch corresponds to the highest of the past decade and the highest CPUE over the same period on A-licence ( $1,363 \mathrm{~kg} / \mathrm{hr}$ ); nearly double the second highest ( $681 \mathrm{~kg} / \mathrm{hr}$ in 2016). Despite spatial restrictions (Hake Box) imposed to W-licensed vessels North of 51 degrees S and West of 60 degree W from the $1^{\text {st }}$ of June, CPUEs in June and July on W-licence were the highest of the year ( 3,466 and $1,509 \mathrm{~kg} / \mathrm{hr}$, respectively), indicating that hake was highly abundant even outside the "Hake Box". Additionally, hake made up 80 and $77 \%$ of the total catch on Wlicence for June and July, respectively, despite these spatial restrictions.

Hake was caught primarily in the finfish trawl fisheries: A- (20,400 t; 76\%), W- (3,244 t; 12\%), and G- $(3,030 \mathrm{t} ; 11 \%)$ licences. Lesser amounts were reportedly caught in the "Loligo" (C- and Xlicences; 156 t ; 0.6\%), skate (F-licence; 116 t ; 0.4\%), and Illex (B-licence; $9 \mathrm{t} ;<0.1 \%$ ) trawl fisheries.

From May to October (inclusively), monthly hake catches were either the highest ( 4 months) or second highest ( 2 months) of the past decade. On A-licence, monthly CPUEs for May to October 2018 were the highest of the past decade for their respective months ( 1,363 to $3,104 \mathrm{~kg} / \mathrm{hr}$ ). Furthermore, monthly CPUEs for June to August 2018 (inclusively) were the highest of the past decade for these respective months despite the spatial restrictions imposed since 2015.

Hake catches have increased significantly in recent years, but hake sizes have been decreasing slightly during this time. This seems to indicate that not only are catches increasing, but also the number of fish caught. These patterns need to be analysed more carefully to better understand size and maturity patterns at each phase of their lifecycle. Additionally, it will be interesting to monitor the catch composition on different licences if and when hake decreases in abundance across the FICZ to determine which species were displaced by this generalist predator.

For a second year in a row, cumulative catches of Patagonian hake have decreased in 2018 (71 t) from their high in 2016 or 531 t . Decreasing effort in the southwest of the FICZ, where Patagonian hake is most abundant, on W-licence in 2018 relative to both 2016 and 2017 might explain this downward trend in catches.

### 1.7 Genypterus blacodes - kingclip

In 2018, kingclip catches totalled $1,445 \mathrm{t}$ across all fisheries. This was the lowest total annual catch since 2003 or ninth-lowest since 1987 and nearly 200 t less than last year. For a third consecutive year, kingclip catches were well below the long-term average or $c .70 \%$ of the 31-year average of $2,099 \mathrm{t}$. Compared to catches from the last decade, kingclip monthly catches were the lowest for six of the months in 2018, including all three months of the austral spring (August to October), and second-, third-, or fourth- lowest for five additional months. Consistent with previous years, kingclip were most abundant to the north, northwest, and west of the Falkland Islands during the winter and spring when kingclip visit their feeding grounds in the FICZ. Catches of kingclip increased significantly in May (from 110 to 276 t ) to reach their annual peak and corresponding with the autumn migration of kingclip into the FICZ, and decreased considerably in November (from 209 to 106 t), corresponding to kingclip exiting the FICZ to return to their spawning grounds in the Argentine EEZ.

Kingclip was caught primarily in the finfish fishery: A- (770 t; 53\%), W- (367t; 25\%), and G( $286 \mathrm{t} ; 20 \%$ ) licences. Lesser amounts were reportedly caught from the skate (F-licence, 12 t ; $0.8 \%$ ), Illex (B-licence, $2 \mathrm{t} ;<0.2 \%$ ), and D. gahi (C- and X-licences, $1.5 \mathrm{t} ; 0.1 \%$ ) fisheries. In the finfish fishery, while effort on A-licence (10,725 hours) was double to that of W- (5,262 hours) and G- ( 5,389 hours) licences, CPUEs were relatively similar ( 72,70 , and $53 \mathrm{~kg} / \mathrm{hr}$, respectively). However, despite vessels using their A-licence were targeting hake, kingclip made up similar proportions of the catch in the three licences in the finfish trawl fishery, i.e. $3.0 \%$ of the catch on Alicence compared to $4.3 \%$ and $2.8 \%$ on W - and G-licences, respectively.

For 2018, while catches of kingclip on A-licences have fluctuated greatly during the year (2 to 172 t per month of activity), peaking in July and October at the peak of A-licence effort, these have been highly correlated with effort and have led to CPUEs being relatively consistent from month to month ( 40 to $98 \mathrm{~kg} / \mathrm{hr}$ ) during the year. The patterns have been similar on W -licence where monthly catches have ranged from 0.2 to 76 t per month of activity with a peak in November corresponding to the highest monthly effort on W -licence once hake migrated out of our zone. These catches have also been correlated with effort with CPUEs remaining relatively consistent throughout the year ( 46 to $93 \mathrm{~kg} / \mathrm{hr}$ when removing the months with kingclip catches of less than 15 t ).

Kingclip biomass estimated during summer ground fish surveys has been declining since 2015 and in recent years has declined faster than abundance, indicating that although the number of kingclip is decreasing, a greater proportion of smaller individuals are being caught. This is indicative of a decrease in average size of kingclip. Furthermore, 2018 biomass estimates suggest that kingclip abundance is now lower than that observed in 2010.

### 1.8 Salilota australis - red cod

Red cod is another commercial by-catch species with a trend of declining catches and abundance. For 2018, red cod catches were the third lowest ( $1,654 \mathrm{t}$ ) since 1987 or less than $40 \%$ the longterm average ( 1987 to 2018) of $4,306 \mathrm{t}$, yet still nearly 300 t more than last year. It is possible that conservation measures introduced in 2009 and later extended, i.e. fishing ban from September and October in the spawning area, did not have much effect on declining catches in recent years. However, the more likely causes of declining red cod catches are attributable to vessels targeting rock cod, and more recently, due to incursions and high abundance of common hake throughout the finfish area. Not surprisingly, with the spatial and temporal closures in place, red cod catches peaked in May ( 451 t ) once they began aggregating in the feeding area. However, monthly catches never exceeded $200 t$ the rest of the year and were lowest during the summer months following spawning and during the resting season.

The majority of catches were reported from the finfish trawl fisheries: A- ( $45 \%$; 738 t ), W- ( $29 \%$; 470 t ), and G- $(24 \% ; 399 \mathrm{t})$ licences, with lesser quantities caught in the "Loligo" (C- and Xlicences; $15 \mathrm{t} ; 0.9 \%$ ), skate (F-licence; $12 \mathrm{t} ; 0.7 \%$ ), and Illex (B-licence; $1 \mathrm{t} ;<0.1 \%$ ) trawl fisheries. It should be noted that nearly $18 \mathrm{t}(1 \%)$ were caught on E-licence, primarily during the groundfish survey in February.

While catches on A-licence were greater than on other finfish trawling licences, A-licence effort (10,725 hours) was double that for both W- and G-licences (5,262 and 5,389, respectively), resulting in lower CPUE on A-licensed vessels ( $69 \mathrm{~kg} / \mathrm{hr}$ ) targeting hake. Obviously, effort on A-licence was linked directly to abundance of hake in the FICZ. However, red cod catches were not strongly correlated with fishing effort on A-licence. The absence of any pattern was attributable to fishing effort being concentrated in the hake box to the northwest of the FICZ while red cod was most abundant to the west. Conversely, catches and effort on W-licence were highly correlated with effort being concentrated to the west due to spatial restrictions imposed on W-licensed vessels. Monthly CPUEs on A-licence varied widely ( 16 to $147 \mathrm{~kg} / \mathrm{hr}$ ), peaking in May ( $147 \mathrm{~kg} / \mathrm{hr}$ ) and November ( $103 \mathrm{~kg} / \mathrm{hr}$ ), before and after the spatial restrictions, respectively. These were more consistent on W-licensed vessels ( 70 to $112 \mathrm{~kg} / \mathrm{hr}$ ). Not surprisingly, with A-licensed vessels targeting hake, red cod made up $3 \%$ of the total catch on A-licence compared to $6 \%$ on W -licence.

### 1.9 Dissostichus eleginoides - Patagonian toothfish

Toothfish is one of the most valuable resources in the Southwest Atlantic. Adult toothfish caught by longliners are certified by the Marine Stewardship Council (MSC) and can be sold as high as US\$ 30/kg. However, by-caught juvenile toothfish in the finfish trawl fisheries, on the continental
shelf and shelf break, are not certified and far less valuable; being sold with other white-fleshed fish for less than US $\$ 5 / \mathrm{kg}$. The spawning ground is believed to be along the edge of Burdwood Bank with spawning to occur between June and August. Toothfish may display skip-spawning, where mature fish do not spawn every year. Eggs hatch in austral spring (September - October) and larvae undergo a pelagic phase during which they are passively carried by the currents until they settle on the shelf in shallow waters in December - January. As the juveniles grow, they migrate to deeper waters. By the time they are 7 to 12 years of age, they have reached the Patagonian slope and deep water plains (> $1,000 \mathrm{~m}$ ) where they remain. It is during this migration to deeper waters that they are most vulnerable to trawling. However, catches on the W-licence were much lower during the same period in 2018 due to $1.5 \%$ TOO and $10 \%$ GRX bycatch rule for trawlers implemented in 2018. Furthermore, juvenile toothfish are by-caught by the Doryteuthis trawl fishery, where practically all are discarded due to their small size, thus potentially affecting future recruitment of the species in the longline fishery. At this stage, it remains to be determined how much potential recruitment is taken by this fishery.

For 2018, a total of $1,258.9 \mathrm{t}$ of toothfish was taken by all fisheries in the Falkland fishing zones ( 981.8 t [78.0\%] taken by targeted longline fishery, 93.1 t [7.4\%] under W-licence, 88.5 t [7.0 \%] G-licence, 76.8 t [6.1\%] A-licence, 5.7 t [6.1\%] F-licence, 5.0 t [0.4\%] C-licence, 4.6 t [0.4\%] Xlicence, 3.2 t [ $0.3 \%$ ] E-licence, and 0.2 t [ $0.01 \%$ ] B-licence, respectively). The majority of the toothfish catches were taken by Falkland-flagged vessels ( $1,045 \mathrm{t}$; 83.0\%); primarily in the longline fishery. This was followed by 206.5 t ( $16.4 \%$ ) on Spanish-flagged vessels (all in the trawl fisheries) and $6.5 \mathrm{t}(0.5 \%)$ on Korean-flagged vessels (primarily from the F-licence skate fishery).

Trawl fisheries captured a total of 277.0 t of toothfish, with the finfish $\mathrm{W}-$, G-, and A-licensed vessels taking $33.6 \%$, $31.9 \%$ and $27.7 \%$ of that catch respectively. The calamari trawl fisheries only took $1.8 \%$ and $1.1 \%$ of that catch for C - and X-licensed vessels, respectively. Trawl fisheries started capturing toothfish in February and the capture of toothfish was relatively consistent throughout the year, with an average daily catch of 905 kg . In the first and second quarters of the year, toothfish were primarily caught by G-licensed vessels operating in 200-300 m depth to the north and to the west of the Islands. Starting in June, Catches of toothfish on G-licensed vessels stopped, and the majority of the catch for the rest of the year was taken by A- and W-licensed vessels. In the second half of the year, the catches of toothfish in trawl fisheries shifted away from the north and moved to the west and south of the FICZ, where toothfish were caught in shallower waters (200300 m ) on A-licence vessels, and deeper waters (down to 500 m ) on W-licence vessels. In addition, December saw catches of toothfish increase in F-licence vessels fishing for skates as effort increased in the north of the FICZ around 200 m depth.

As in previous years, TAC was set at $1,040 \mathrm{t}$ for the longline fishery based on the results of stock assessment by age-structured production model. It was also estimated that a proportion equivalent to approximately 330 t would be taken as by-catch by the respective trawl fisheries. In 2016 and 2017, there was a shift in fishing behaviour as some vessels exploited deeper waters (500-800 m ), in the southwest of the FICZ between October and January. This led to a significant increase in toothfish by-catch during this period exceeding our predictions for the proportion of MSY taken by trawlers. This led to the closure of an area in the southwest of the FICZ from early December

2017 to the end of January 2018 as a conservation measure. Due to implementation of a $1.5 \%$ toothfish bycatch limit in 2018, trawlers did not fish as much in deep waters in the southwest, and therefore toothfish bycatch did not exceed our predictions of 330 t .

One longliner operated in Falkland waters throughout the year (except between May and August when it was in Spain for maintenance) with a total of 185 fishing days on L-licence. Toothfish catches on the longline vessel occurred throughout the eastern half of the FICZ/FOCZ, generally below $1,000 \mathrm{~m}$ depth. There was no spatial pattern in fishing effort throughout the year, but the longline vessel went furthest south in the first third of the year, fishing on the southern edge of Burdwood Bank, and also spending time fishing directly east of the Falkland Islands. In the last four months of the year the majority of the longline toothfish catches came from the southern parts of the zone, primarily east of Burdwood Bank and in the Falkland Trough, with smaller catches also coming from the eastern part of the zone.

Due to the long pause in fishing, the TAC was not fully taken ( 66.4 t remained) despite CPUE on L-licence being good (average $4.4 \mathrm{~kg} / \mathrm{umbrella}$ ). Monthly CPUEs ranged from 2.08 to $5.47 \mathrm{~kg} /$ umbrella; equivalent to the 2017 CPUEs on the same vessel. Placed in a historical context, CPUEs for 2018 were the fifth-highest since moving to the umbrella system in 2007. The catches on Llicence and associated CPUE suggest that there has been solid recruitment into the longline fishery, showing no signs that it will decrease in the future. However, some caution is necessary to protect this recruitment and bycatch levels will need to be monitored closely moving forward.

### 1.10 Rajidae - Skates

In 2018, 1,993 t of skate were caught in the Falklands Islands Conservation Zones. This represents the lowest annual total skate catch since 1998, and the fourth-lowest since skate catches were first recorded in 1989. Both target catch and non-target bycatch decreased in 2018 from the year before, by respectively 620 t and 566 t . Approximately $25.9 \%$ of the 2018 total catch ( 515 t ) was harvested as target catch (F licence). This represents the lowest percentage of target catch since 2009. F-licence allocated days increased in 2018 from the year before, as more vessels were registered for GT category 5. However, the actual fishing effort decreased substantially: in 201864 F-licence fishing days taken out of 258 days allocated ( $24.8 \%$ licence utilization rate), whereas in 2017133 F-licence fishing days taken out of 223 days allocated ( $59.6 \%$ licence utilization rate). By comparison, licence utilization rates were $58.6 \%$ in 2016, $96.1 \%$ in 2015, and $100 \%$ in 2014.

The 2018 target catch was taken by three vessels; one vessel each registered in the Falkland Islands ( 52.5 t in 18 vessel-days; mean CPUE of $177 \mathrm{~kg} / \mathrm{hr}$ ), Spain ( 1.3 t in 1 vessel-day; mean CPUE $91 \mathrm{~kg} / \mathrm{hr}$ ), and Korea ( 461.6 t in 45 vessel-days; mean CPUE $578 \mathrm{~kg} / \mathrm{hr}$ ). The F-licensed Falklands vessel took $62.1 \%$ of its skate catch in May (vs. $55.6 \%$ of the effort), and $37.9 \%$ of skate catch in October ( $44.4 \%$ of the effort). The Spanish vessel took its one day of F-licence fishing in August. The F-licensed Korean vessel took $33.3 \%$ of its skate catch in May through July ( $42.2 \%$ of the effort), and $66.7 \%$ of skate catch in December ( $57.8 \%$ of the effort).

The F-licenced Falklands vessel was targeting skate for the first time in 2018. This vessel also held finfish A and G licences, accounting for $29.6 \%$ of its total fishing activity in 2018, D. gahi C and

X licenses, accounting for $57.0 \%$ of its total fishing activity in 2018, and surimi S licence, accounting for $2.2 \%$ of its total fishing activity in 2018. The F-licenced Spanish vessel held A, G, and W finfish licences, which accounted for $99.3 \%$ of its total fishing activity in 2018. Skatelicence fishing was thus a minor activity for Falklands- and Spanish-registered vessels in 2018. The F-licenced Korean vessel also held a finfish W licence, which accounted for $12.9 \%$ of its total fishing activity in 2018, and an Illex B licence, which accounted for $32.1 \%$ of its total fishing activity in 2018. These three F-licence vessels took $9.6 \%$ of the total skate bycatch under finfish licence, compared to the $11.7 \%$ of total finfish-licensed effort they accounted for. Finfish vessels that participated in the skate-licence fishery were therefore not predisposed to bycatch more skate. Within finfish trawls, 816 t of skate were taken under A licence, 311 t under G licence, and 298 t under W licence, representing skate bycatch decreases of $201 \mathrm{t}, 47 \mathrm{t}$, and 217 t from the year before. Less than $2 \%$ of finfish skate bycatch was reported discarded. Additionally 17 t of skate were caught in the $D$. gahi fishery, a substantial decrease from last year ( 107 t ). The one F-licenced vessel in 2018 that had also fished D. gahi licences reported $1.4 \%$ of skate bycatch vs. $5.3 \%$ of the effort under D. gahi licence, thus a lower rate of skate bycatch compared to other vessels in that fishery. Twenty-eight tonnes of skate were caught in the toothfish longline fishery, 8 t were caught under experimental licence (which included a skate-fishing trial), and 2 t in the Illex trawl fishery. Skates caught in the longline fishery were almost entirely discarded.

In all commercial fisheries, a total of 22,397 skates were identified to 13 species by observers on thirteen vessels. In skate-target trawls, four species represented at least $10 \%$ each of the sampled species composition by numbers: Bathyraja brachyurops (28\%), Zearaja chilensis (21\%), Bathyraja albomaculata (14\%), and Amblyraja doellojuradoi (12\%). Two species represented at least $10 \%$ each by weight: B. brachyurops (33\%) and Z. chilensis (26\%). In finfish-target trawls, three species represented at least $10 \%$ each of the sampled species composition by numbers: B. brachyurops $(39 \%)$, Bathyraja macloviana ( $17 \%$ ), and Z. chilensis ( $14 \%$ ). Five species represented at least $10 \%$ each by weight: Z. chilensis (28\%), B. brachyurops (25\%), Bathyraja griseocauda ( $18 \%$ ), B. macloviana ( $10 \%$ ), and B. albomaculata ( $10 \%$ ). In D. gahi trawls, two species represented at least $10 \%$ each of the sampled species composition by numbers: B. brachyurops (54\%) and Bathyraja scaphiops ( $26 \%$ ). Three species represented at least $10 \%$ each by weight: B. brachyurops ( $53 \%$ ), Z. chilensis ( $17 \%$ ), and B. scaphiops ( $10 \%$ ). In the longline fishery two species represented all skate bycatch; by numbers: Amblyraja georgiana (79\%) and Bathyraja meridionalis ( $21 \%$ ), and by weight A. georgiana ( $75 \%$ ) and B. meridionalis ( $25 \%$ ).

### 1.11 Patagonotothen ramsayi - Rock cod

The annual catch fell to a further low in 2018, with the total of $2,213 \mathrm{t}$ of rock cod caught. The catch was dominated by the D. gahi fishery, the fishery caught $1,422 \mathrm{t}, 64.25 \%$ of the catch. The fishery discarded $99.7 \%$ of the catch $(1,418 \mathrm{t})$.

Finfish vessels (A, W and G) caught 728 t . The highest catch in the finfish targeting fleet was by the G licences with 358 t , 117 t were discards. Vessels fishing on A licences caught 198 t and discarded 92 t , whilst W licensed vessels caught 172 t .

Given the catch by G licensed vessels, the highest catch by the finfish licenses was in the second quarter, 396 t . The lowest catch was in the third quarter when 26.5 t were caught. Overall CPUE was $434 \mathrm{~kg} / \mathrm{day}$, with a high of $951 \mathrm{~kg} /$ day in the first quarter and a low of $54 \mathrm{~kg} / \mathrm{day}$ in the third quarter.

### 1.12 Grenadiers (Macrouridae)

There was neither a target fishery nor a research cruise for grenadiers in 2018. Total annual catch of grenadiers was 483 t taken as by-catch during longline and finfish fisheries, closer to the norm after abundant 2016 and 2017 catches of 2,336 and $3,273 \mathrm{t}$. The highest catch was in the fourth quarter when 158 t were caught, whilst the lowest catch was in the third quarter, 96 t . A total of 47 t of Macrourus spp. were caught in the longline fishery mostly M. holotrachys, whilst the trawl fishery was split between Macrourus spp. (generally M. carinatus, with few M. holotrachys) and Coelorhynchus (Coelorhynchus fasciatus).

### 1.13 Zygochlamys patagonica - Patagonian scallop

No directed scallop fishery in Falkland Island waters occurred in 2018 although 4 t were taken as by-catch.

### 1.14 Eleginops maclovinus - Falkland mullet

Historically, there has been a minor commercial beach seine fishery for Falkland mullet that supplies the domestic market, with fishing occurring only over summer months (Dec- Feb). Operations have reduced with modest supply to domestic market outlets.

### 1.15 Paralomis granulosa - Snow crab

There is an experimental licence available for snow crabs, this was only used rarely in 2018 and catch was less than 1 tonne.

### 1.16 Others

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

## 2 Fisheries Department research cruises in 2018

In 2018, a variety of research cruises were conducted by the Fisheries Department using chartered fishing vessel Monteferro, longliner CFL Hunter and fishing vessels Petrel and Castelo.

### 2.1 Demersal biomass survey ZDLM3-02-2018

The ground fish survey was conducted from 3 to 24 February 2018 on board the F/V Monteferro for the sixth time since 2010, every time concurrently with the first season Loligo pre-recruitment
survey. Since 2011, the same stations were repeated to ease comparisons between years. To improve the data collection towards the implementation of an ecosystem-based framework for fisheries management in the Falkland Islands, the survey was extended by 23 trawl stations to the south of the finfish zone, thus increasing the number of trawl stations from 89 to 102 ( 10 stations were removed in the north of the Loligo box as this area is already covered by the Loligo prerecruitment survey) and oceanographic stations to 101. The southward expansion of the survey provided for data to be collected that were not available with the survey design used until 2017 (inclusively). Southern blue whiting, hoki, toothfish, and skates were better covered in the 2018 survey than by previous ones. In 2018, hot spots for southern blue whiting and hoki were identified to the south of the southern limit of the previous survey area. Furthermore, data were also collected on grenadier - ridge scaled rattail (GRC), a species that was targeted by some bottom trawlers over the last three years, especially in late-spring and early-summer and whose distribution consists of waters deeper than 400 m to the north and south of the finfish area.

During the survey a total catch of $130,402 \mathrm{~kg}$ was taken comprising 125 species or taxa. Focusing on trends in annual estimated biomass for the main commercial species, despite the increase in survey area to the Southwest of the FICZ, biomass for certain species has decreased from previous years. For red cod, a non-significant increase in biomass and decrease in abundance were observed, indicating that red cod density over the finfish area has decreased and that the population consists of larger individuals; the latter most likely due to larger fish being sampled from the Southwest of the FICZ. A similar trend was observed for Illex with a greater increase in biomass than abundance indicating that the population consisted of larger individuals than in previous years. This is most likely due to positive anomalies in temperatures that would have led to increased growth rates of the South Patagonian stock. Hake biomass and abundance both decreased from last year. Compared to previous years, this lower biomass in February should not be surprising given that this species generally arrives to their feeding grounds in March. However, given that hake catches were the second-highest since 1987, the lower biomass estimated during the groundfish survey might simply reflect that hake arrived later in the FICZ relative to previous years. For southern blue whiting, hoki, and Patagonian toothfish, significant increases both in terms of biomass and abundance were observed from 2017. Given that the biomass hotspot for all three species was located in the Southwest of the FICZ, the extension of the survey in 2018 has provided a more accurate assessment of the biomass of these species in Falkland waters. For kingclip, the biomass decrease from 2017 to 2018 was steeper than that for abundance. This is the result of a shift in the length frequency of the stock towards smaller individuals where the length frequency mode is observed at c .50 cm while it was always $>50 \mathrm{~cm}$ prior to 2018.

### 2.2 Toothfish tagging and underwater camera research cruise ZDLK3-022018

The initial Marine Stewardship Council (MSC) certification for Patagonian toothfish (Dissostichus eleginoides) in the Falkland Islands was awarded in March 2014, and came with four conditions which Consolidated Fisheries Ltd (CFL) were obligated to meet. These conditions were addressed in collaboration with the Falkland Islands Fisheries Department (FIFD) and included enhancing
the current knowledge on stock discrimination of toothfish in the Southwest Atlantic, and better understanding the impact of the longline gear on the benthic habitat of the Falkland Islands waters.

To continue researching these two questions, a research cruise focused on Patagonian toothfish was conducted aboard the CFL Hunter between 10 and 23 February 2018. The two primary goals of this cruise were to: 1) deploy conventional and satellite tags on toothfish in areas where none had been deployed before; and 2) gather video footage of the benthic environment and the behaviour of the longline gear during setting, soaking and hauling. The cruise travelled to five areas in the south-eastern region of the Falkland Conservation Zones, where tagging took place on a total of 21 lines. The underwater camera was deployed 11 times on umbrella branch lines of the longline gear.

Overall, 1,161 conventional tags and 10 mark-recapture satellite tags were deployed on toothfish ranging from 61 to 165 cm TL, with the weight of toothfish tagged and released totalling 10.9 t . On average, $45.1 \%$ of the toothfish weight on each line was tagged, with a weak decreasing relationship between tagging percentage and soak time. No tagged toothfish were recaptured during the February 2018 cruise.

All but one camera deployment were successful and returned useable video footage of the habitat, epibenthic invertebrates (including hard corals, gorgonian corals, and sea pens), and organisms interacting with the baited hooks including toothfish, bigeye grenadier (Macrourus holotrachys), blue antimora (Antimora rostrata), skates (Rajiformes), hagfish (Myxine sp.), and crabs. The behaviour of the fishing gear was also recorded, indicating that only the 6 kg weight at the end of each branch line is contacting the bottom and dragging during hauling. The umbrella does not seem to be regularly making contact with the bottom during normal fishing activity, suggesting that the footprint of the longline fishing is minimal. Most of the benthic habitat seems to be composed of mud or silt and no evidence of permanent damage to the benthic environment was seen.

### 2.3 Skate mesh trial research cruise ZDLV-10-2018

Currently, there are no specific gear requirements for the specialized skate fishery in the Falkland Islands. The 110 mm diamond mesh regulation applies to all trawlers regardless of their targeted species. However, skate-licensed trawlers are permitted to use one or several tickler chains in front of their ground rope to 'lift' the skates from the bottom, increasing the effectiveness of their catches. The relatively small mesh size of the cod-end of the specialized skate fishery in the Falkland Islands raised concerns regarding the high proportion of bycatch in terms of finfish species caught, as well as the unwanted bycatch of small and undersized skates.

In the beginning of 2018, a skate-licensed fishing company (Fortuna Ltd) approached the Falkland Islands Fisheries Department (FIFD) with a proposal to test a variety of cod-ends comprised of differing mesh sizes as a means to optimise their catches of skate that has been realized in October 2018 on board the F/V Petrel. Cruise objectives were: a) to assess the impact different cod-end mesh sizes ( $110 \mathrm{~mm}, 300 \mathrm{~mm}$ and 400 mm diamond mesh) have on the composition and quantities of finfish by-catch caught within the specialized skate fishery; b) to investigate species composition and skate size distribution by species in the catches of trawls utilising different cod end mesh
sizes and 3) to make recommendations on the optimal mesh size to be used in the cod-end of bottom trawls for the specialized skate fishery.

During the 10-days cruise it was found that for every mesh size, catches were quite similar in three sample areas of the FICZ that currently allows skate fishing (north of $51^{\circ} \mathrm{S}$ ). The 110 mm mesh cod-ends kept between 22 to $73 \%$ of commercial by-catch species in the net (hake, grenadier, rock cod, red cod and toothfish). The by-catch of these species drastically decreased in 300 mm and 400 mm mesh, down to $1-8 \%$. In the latter case, a large proportion of bycatch originated from fish enmeshed in the trawl area close to the attachment of the cod end. It was found that the 110 mm mesh cod-end took a large proportion of small undersized commercial ( $<35 \mathrm{~cm}$ disc width) and non-commercial species of skates such as RMC, RDO and RPX, accounting for 40 to $50 \%$ of catch by weight (and up to $80 \%$ by number). Such skates were discarded, with unlikely survival rates. The 300 mm mesh retained significantly larger proportions of small skates (40-50 cm DW), approximately $30-40 \%$ more than those of 400 mm mesh. These were processed and kept onboard as low value product (category RY1 $-0-300 \mathrm{~g}$ ). A significant proportion of these skates were at length below $50 \%$ maturity - i.e. never given the opportunity to reproduce. When all mesh sizes are considered, skate numbers and weights remained consistent in terms of larger individuals ( $>50 \mathrm{~cm}$ DW). However, in Areas 1 and 2 the effectiveness of the 400 mm mesh was higher than that of 300 mm , as the reported weight for the product RY3 and RY4 ( +500 g ) was significantly larger when the 400 mm mesh was utilised.

It was recommended that the 110 mm mesh size cod end NOT to be used for the specialized skate fishery as it catches large quantities of commercial by-catch finfish species, as well as large quantities of undersized and non-commercial small skates. The 300 mm mesh size reduces by-catch of finfish species but retains a significant proportion of small sized skate ( $<45-50 \mathrm{~cm} \mathrm{DW}$ ) that have yet to attain their $50 \%$ maturity size. Thus, for the sustainability of the skate assemblage, the 300 mm mesh is not recommended for the F-licensed fishery. The 400 mm mesh size cod end is recommend to be used in the F-Licensed fishery as it produces the same (or greater) amounts of large commercial sizes skates as both 110 mm and 300 mm mesh cod ends. Furthermore, 400 mm mesh dramatically decreases the number and volume of fin fish by-catch caught and also limits the catch of immature commercial and non-commercial skate species.

### 2.4 Toothfish tagging and underwater camera research cruise ZDLK3-112018

Continuing the work started on toothfish tagging and benthic habitat information, a second research cruise focusing on Patagonian toothfish was conducted aboard the CFL Hunter between 27 November and 7 December 2018. The two primary goals of this cruise were to: 1) deploy conventional and satellite tags on toothfish in areas where none had been deployed before; and 2) gather video footage of the benthic environment and the behaviour of the longline gear during setting, soaking and hauling. In addition, work was carried out on seabird interaction during setting and hauling operations. The vessel travelled to four areas in the north and north-eastern regions of the

Falkland Conservation Zones, where tagging took place on a total of 13 lines. The underwater camera was deployed 8 times on umbrella branch lines of the longline gear.

Overall, 828 conventional tags and 5 mark-recapture satellite tags were deployed on toothfish ranging from 60 to 162 cm TL, with the weight of toothfish tagged and released totalling 9.5 t . On average, $46.2 \%$ of the toothfish weight on each line was tagged, with no relationship between tagging percentage and soak time. At the time of writing, a total of 3,314 toothfish have been tagged since the beginning of the toothfish tagging effort, 51 of which have so far been recaptured ( $2.05 \%$ recapture rate before the November cruise, $1.54 \%$ recapture rate with the added tagged fish from the November 2018 cruise). No tagged toothfish were recaptured during the November 2018 cruise.

All camera deployments were successful. The performance of the fishing gear was also recorded, indicating that, under normal conditions, only the 6 kg weight at the end of each branch line is contacting the bottom and dragging during hauling. The umbrella does not seem to be regularly making contact with the bottom during normal fishing activity, suggesting that the footprint of the longline fishing is minimal on the bottom. Most of the benthos has mud or silt sediment and only rare evidence of long-term damage to the benthic environment (damage to hard corals for example) was seen.

### 2.5 Juvenile toothfish survey ZDLT1-12-2018

Understanding the spatial and temporal distribution and abundance patterns of species and their relationships with environmental variables is a key issue in fisheries ecology. Patagonian toothfish (Dissostichus eleginoides) have a complex life cycle composed of both pelagic and benthic lifehistory stages. In the Falkland Islands, mature toothfish are thought to spawn in waters $>800 \mathrm{~m}$ over the eastern part of the Burdwood Bank. During a protracted egg phase (3 months), larvae are distributed to shelf waters by the Falklands Current. These waters are highly productive and are thought to serve as important recruitment areas for the rapid growth of toothfish larvae and the settlement of early juveniles onto the shelf. Over the next 5 to 10 years juveniles will undertake a characteristic down-slope ontogenetic migration into deeper slope waters where they will reach maturity and spawn. As such, these recruitment areas across the shelf to the south of the Falkland Islands form a critical link in the life cycle trajectory associated with spawning adults on the Burdwood Bank. During a research cruise undertaken within this region during January 2017, a nursery ground of juvenile $0+$ year class toothfish ( $10-12 \mathrm{~cm}$ total length) was found at depths between 70 and 120 m to the south of the Falkland Islands. The aim of this follow up research cruise was to locate and investigate the timing, location, distribution and abundance of newly settled Patagonian toothfish recruits across two regions of high productivity to the southeast and southwest of the Falkland Islands.

However, no juvenile toothfish recruits or larvae were found during the research survey. Catch data indicates a potentially delayed or poor recruitment period for finfish species occurring over the southern shelf regions of the Falkland Islands, including rock cod and icefish. This may have been
due to colder than average sea temperatures occurring during the time period resulting in higher egg or larval mortality.

## 3 Fisheries Department research contracts in 2018

The Falkland Islands Government's financial year runs from 1 July to 30 June and most external research contracts in the Fisheries Department adhered to these start and end dates. Contracts completed by the end of June 2018 are presented below.

## 3.1 "Providing satellite sea surface water temperature (SST) data for the area of the Falkland-Patagonian shelf between January and May 2018".

This contract has been carried out by principal investigator Dr. A.M. Sirota of the research company MARSATEC, Kaliningrad, Russia.

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

## 3.2 'Seasonal and interannual variations in oceanographic conditions on the eastern continental slope and shelf of the Falkland Islands (November 1999 - February 2018),

The oceanographic contract was carried out by principal investigator Dr. A.M. Sirota of MARSATEC, Kaliningrad, Russia.

Seasonal and inter-annual variability of water masses on the eastern shelf (transect P1) and southern shelf (transect P5) were described. Water structure and its variability around the Falkland Island shelf were analysed using the data from research cruises.

## 4 Reductions in seabird mortality in the Falkland Islands

### 4.1 Longlining

The Falkland Islands Government holds a National Plan of Action - Seabirds (NPOA-S) for Longliners, last updated in 2011. Since 2010, dedicated seabird observations have generally been conducted entirely by Fisheries Observers every one in four days when on board, although a dedicated Seabird Observer was deployed on the vessel for ten days in November/December 2018. A northern giant petrel M . halli became hooked during hauling operations but was released with only minor injuries to the mouth. No other gear interactions were observed during the year.

### 4.2 Trawl fishery

The Falkland Islands Government holds a NPOA-S-Trawlers, last updated in December 2018. For the period of July 2017 to June 2018, the estimated mortality of seabirds in the trawl fleet was the lowest recorded since the introduction of the tori-line in $2004(\mathrm{n}=174$, of which 162 represented species listed on the Annex I of the Agreement on the Conservation of Albatrosses and Petrels (ACAP)). Uncharacteristically, the vast majority ( $76.8 \%$ ) of incidental catches were the result of net entanglement. It is unclear at this stage whether this is an effect of improved warp-related mitigation, or a bias that resulted from the majority of observations having been limited to hauling operations by external observers in the Falkland calamari fleet.

### 4.2.1 Finfish

For the demersal finfish fleet, observations of seabird interactions were conducted on 34 days, representing $1.8 \%$ of the finfish trawling effort over the reporting period, and the lowest observer effort since 2004. A total of two seabird mortalities of were recorded during dedicated seabird days, both black-browed albatrosses. Extrapolated to the entire year's finfish fishing effort, this equates to 117.7 mortalities. A further three black-browed albatross mortalities were recorded aboard finfish vessels outside dedicated seabird days. The very low observer effort during the reporting period introduced high uncertainty into the mortality estimate for this fishery.

### 4.2.2 Falkland calamari

For the Falkland Calamari fishery, the presence of external observers allowed for seabird observations to be conducted on 1442 days, representing $73 \%$ of fishing days for the period of July 2017 to June 2018. In this period, mortalities of 3 grey-headed albatrosses T. chrysostoma, 35 black-browed albatrosses and one white-chinned petrel Procellaria aequinoctialis were observed, extrapolating to 44.3 ACAP-listed species mortalities per year. In addition, 12 mortalities of sooty shearwaters Ar denna grisea were recorded in the second season. The high level of observer effort allows for a confident mortality estimate.

### 4.2.3 Skate

Three percent ( $\mathrm{n}=4$ days) of skate trawling was observed in the period of June 2017 to July 2018. No seabird mortalities were recorded in this period.

### 4.2.4 Illex

No observations were conducted in the illex trawl fishery for this period, which in the period of July 2017 to June 2018 only amounted to 26 fishing days.

### 4.3 Improvements to incidental seabird mitigation

Important progress was made in relation to improved mitigation measures.

### 4.3.1 Fixed Aerial Array

It was established that the FAA can be more effective than the traditional tori-line, but that this highly depends on an adequate design. Companies have been encouraged to continue to seek an ac-
tive dialogue with the Department prior to installations to ensure effective resource investment. As of December 2018, ten vessels had exchanged the standard tori-line for a FAA.

### 4.3.2 Discard Management

The FIFD recognises discard management as a long-term solution to seabird bycatch and continues to collaborate with the industry to implement this mitigation measure. A discard management policy was discussed with the Fisheries Committee in June 2018, and will come into effect in January 2021. This will oblige all vessels trawling in Falkland Islands waters to be fitted with a storage tank to allow strategic storage and batching of discards, thereby significantly reducing the risk of incidental catches of seabirds. By the end of December 2018, nine vessels had been fitted with a discard storage tank.

### 4.4 Compliance

### 4.4.1 Tori-line deployment

According to observer reports, only one vessel was reported to have non-compliant tori-lines.

### 4.4.2 Discarding regulations during manoeuvres

Based on observer reports, the discarding regulation was followed on the vast majority of vessels to a very high standard. On at least two vessels, however, discarding was sometimes halted late, or not halted at all, until the captain was reminded of the regulation by the observer.

### 4.4.3 Net cleaning

The licence regulations have recently been re-worded to emphasise that nets 'must' be cleaned. Whilst some degree of net cleaning was reported in all observer reports, the level of effort and effectiveness varied substantially, with many nets still returned to sea with plenty of material to attract seabirds and seals. Besides the management of waste discharge, adequate net cleaning is currently the single most effective mitigation measure for net-related mortalities of seabirds, and as such, it is important that this mitigation should be taken more seriously.

## 5 Falkland Islands Fisheries Observer Programme

Fisheries Observers collect position data, catch/effort and biological data, conversion factor data, and seabird/mammal interaction \& mortality data from all fleets and all fisheries, whereas the Seabird Observer primarily works on seabird/mammal interaction/mortality data as well as being involved with trial and development of appropriate bird mitigation measures in the demersal mixed finfish and Falkland calamari trawl fleet. Observers also monitor activities of the Falklandlicensed fleet operating on the high seas to the North of the FCZ. Lastly, observers take part in the research cruises conducted regularly by the Department and participate in various scientific projects on land according to the needs of the Scientists of the Department. Periods at sea typically vary between two and six weeks in duration. All data collected are entered into a database at sea, and a detailed trip report completed after each period at sea. These internal reports are also shared with respective ITQ holders and vessel operators.

Monitoring effort over the last 4 years (2015-2018) is summarized in Table 1. There has been a net percentage-decrease in FIFD observer coverage in 2018, explained by two main circumstances: a shortage of observer staff for an extended period of time during the year, which prevented a regular coverage as it had been the case in previous years, and the fact that external observers were mandated on the fleet fishing for Falkland calamari under C and X license - these two seasons having therefore an actual observer coverage of $100 \%$. This year again, the fishing effort of trawlers targeting mainly finfish under A, G and W license, has slightly decreased. However, the number of jiggers targeting Illex has been even higher that during 2018, reflecting a comparatively good season for this B-licensed fishery. Skates-targeting trawler effort (F-License) has dropped by half when compared to previous years and has been very scarce, hence the poverty of observer coverage for this fishery. Finally, the longliner (license L) fishing effort has stayed comparable to those of previous years, as it has been the case for observer coverage if we exclude two tagging trips that happened in 2018 and are not observed days per se.

Table 1- Observer coverage for 2015-2018 FICZ / FOCZ

|  | 2015 |  |  | 2016 |  |  | 2017 |  |  | 2018 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| License | Fishing Days | Obs days |  | Fishing Days | Obs days |  | Fishing Days | Obs days |  | Fishing Days | Obs days |  |
| A/G/W | 3,031 | 270 | 8.9\% | 2,350 | 243 | 10.3\% | 1,770 | 241 | 13.6\% | 1,752 | 236 | 13.4\% |
| B | 8,278 | 116 | 1.4\% | 1,714 | 6 | 0.4\% | 6,055 | 86 | 1.4\% | 7,513 | 51 | 0.7\% |
| C/X | 1,616 | 133 | 8.2\% | 2,024 | 207 | 10.2\% | 1,997 | 282 | 14.1\% | 1,953 | 173 | 8.9\% |
| F | 251 | 34 | 13.5\% | 152 | 29 | 19.1\% | 133 | 26 | 19.5\% | 64 | 7 | 10.9\% |
| L | 216 | 93 | 43.1\% | 197 | 98 | 49.7\% | 191 | 106 | 55.5\% | 185 | 123* | 66.5\%* |
| S | 6 | 0 | 0\% | 4 | 4 | 100\% | 0 | 0 | 0\% | 4 | 0 | 0\% |
| E (surveys) | 89 | 89 | 53\% | 53 | 53 | 100\% | 90 | 90 | 100\% | 60 | 60 | 100\% |
| Totals | 13,491 | 735 | 5.4\% | 6,494 | 640 | 9.9\% | 10,236 | 931 | 9.1\% | 11,531 | 650 | 5.6\% |

*Observed day numbers include two tagging trips. The actual observed days and percentage of coverage are 105 and $56.6 \%$, respectively

In 2018, there were 37 observer trips on commercial vessels, two Falkland calamari Doryteuthis gahi pre-recruitment surveys, three research cruises (a ground fish survey, a mesh-size trial in Skate fisheries, and a juvenile Toothfish survey) and two Toothfish tagging trips.

Table 2 provides a four year summary of individual specimens sampled for size/sex/maturity and optionally weight/otoliths/statoliths. Four-year totals of less than 100 specimens per species were grouped into "Others".

Table 2 - Fish, squid, skate and invertebrate specimens sampled by observers \& scientists

| Species name | 2015-2018 | \% | 2015 | \% | 2016 | \% | 2017 | \% | 2018 | \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Doryteuthis gahi | 428,255 | 37.4 | 99,271 | 35.9 | 114,330 | 40.3 | 142,397 | 38.4 | 72,257 | 33.6 |
| Patagonotothen ramsayi | 194,744 | 17.0 | 45,286 | 16.4 | 44,750 | 15.8 | 69,254 | 18.7 | 35,454 | 16.5 |
| Illex argentinus | 107,516 | 9.4 | 45,896 | 16.6 | 12,502 | 4.4 | 27,677 | 7.5 | 21,441 | 10.0 |
| Merluccius hubbsi | 87,049 | 7.6 | 14,911 | 5.4 | 22,020 | 7.8 | 27,646 | 7.5 | 22,472 | 10.4 |
| Dissostichus eleginoides | 57,021 | 5.0 | 11,099 | 4.0 | 13,513 | 4.8 | 25,508 | 6.9 | 6,901 | 3.2 |
| Salilota australis | 35,864 | 3.1 | 8,516 | 3.1 | 11,642 | 4.1 | 9,618 | 2.6 | 6,088 | 2.8 |
| Bathyraja brachyurops | 33,738 | 2.9 | 9,424 | 3.4 | 9,556 | 3.4 | 8,335 | 2.2 | 6,423 | 3.0 |
| Macruronus magellanicus | 25,000 | 2.2 | 4,156 | 1.5 | 7,383 | 2.6 | 7,014 | 1.9 | 6,447 | 3.0 |
| Bathyraja albomaculata | 24,414 | 2.1 | 7,327 | 2.6 | 7,251 | 2.6 | 7,284 | 2.0 | 2,552 | 1.2 |
| Zearaja chilensis | 19,449 | 1.7 | 5,027 | 1.8 | 7,590 | 2.7 | 2,133 | 0.6 | 4,699 | 2.2 |
| Genypterus blacodes | 17,822 | 1.6 | 4,373 | 1.6 | 4,613 | 1.6 | 4,514 | 1.2 | 4,322 | 2.0 |
| Micromesistius australis | 15,876 | 1.4 | 3,388 | 1.2 | 5,291 | 1.9 | 4,019 | 1.1 | 3,178 | 1.5 |
| Coelorinchus fasciatus | 9,788 | 0.9 | 1,903 | 0.7 | 1,475 | 0.5 | 2,377 | 0.6 | 4,033 | 1.9 |
| Bathyraja griseocauda | 9,672 | 0.8 | 1,537 | 0.6 | 4,203 | 1.5 | 2,723 | 0.7 | 1,209 | 0.6 |
| Macrourus holotrachys | 8,158 | 0.7 | 2,938 | 1.1 | 2,569 | 0.9 | 1,461 | 0.4 | 1,190 | 0.6 |
| Bathyraja macloviana | 8,056 | 0.7 | 1,272 | 0.5 | 1,718 | 0.6 | 2,199 | 0.6 | 2,867 | 1.3 |
| Champsocephalus esox | 7,979 | 0.7 | 773 | 0.3 | 253 | 0.1 | 6,359 | 1.7 | 594 | 0.3 |
| Amblyraja doellojuradoi | 7,337 | 0.6 | 884 | 0.3 | 1,664 | 0.6 | 2,740 | 0.7 | 2,049 | 1.0 |
| Antimora rostrata | 4,720 | 0.4 | 487 | 0.2 | 1,104 | 0.4 | 1,638 | 0.4 | 1,491 | 0.7 |
| Bathyraja scaphiops | 4,300 | 0.4 | 636 | 0.2 | 1,484 | 0.5 | 1,276 | 0.3 | 904 | 0.4 |
| Cottoperca gobio | 2,944 | 0.3 | 22 | <0.1 | 452 | 0.2 | 1,811 | 0.5 | 659 | 0.3 |
| Physiculus marginatus | 2,932 | 0.3 | 48 | <0.1 | 199 | 0.1 | 408 | 0.1 | 2,277 | 1.1 |
| Munida gregaria | 2,885 | 0.3 | 297 | 0.1 | - | - | 2,588 | 0.7 | - | - |
| Sprattus fuegensis | 2,794 | 0.2 | 1,672 | 0.6 | 230 | 0.1 | 685 | 0.2 | 207 | 0.1 |
| Bathyraja cousseauae | 2,282 | 0.2 | 151 | 0.1 | 669 | 0.2 | 1,099 | 0.3 | 363 | 0.2 |
| Patagonotothen tessellata | 2,158 | 0.2 | 06 | <0.1 | 739 | 0.3 | 1,271 | 0.3 | 142 | 0.1 |
| Gymnoscopelus nicholsi | 1,949 | 0.2 | 671 | 0.2 | 421 | 0.1 | 757 | 0.2 | 100 | 0.0 |
| Psammobatis spp. | 1,794 | 0.2 | 397 | 0.1 | 369 | 0.1 | 171 | <0.1 | 857 | 0.4 |
| Bathyraja multispinis | 1,493 | 0.1 | 251 | 0.1 | 609 | 0.2 | 304 | 0.1 | 329 | 0.2 |
| Stromateus brasiliensis | 1,443 | 0.1 | 139 | 0.1 | 92 | 0.0 | 852 | 0.2 | 360 | 0.2 |
| Iluocoetes/Patagolycus mix | 1,368 | 0.1 | 174 | 0.1 | 979 | 0.3 | 209 | 0.1 | 06 | 0.0 |
| Moroteuthis ingens | 1,323 | 0.1 | 185 | 0.1 | 309 | 0.1 | 101 | <0.1 | 728 | 0.3 |
| Merluccius australis | 1,216 | 0.1 | 322 | 0.1 | 476 | 0.2 | 289 | 0.1 | 129 | 0.1 |
| Sebastes oculatus | 735 | 0.1 | 332 | 0.1 | 141 | <0.1 | 189 | 0.1 | 73 | <0.1 |
| Munida spp. | 622 | 0.1 | - | - | - | - | 499 | 0.1 | 123 | 0.1 |
| Patagolycus melastomus | 566 | <0.1 | - | - | - | - | 444 | 0.1 | 122 | 0.1 |
| Squalus acanthias | 519 | $<0.1$ | 181 | 0.1 | 202 | 0.1 | 35 | <0.1 | 101 | <0.1 |
| Patagonotothen guntheri | 490 | <0.1 | 273 | 0.1 | 40 | <0.1 | 177 | $<0.1$ | - | - |
| Allothunnus fallai | 476 | <0.1 | 31 | <0.1 | 179 | 0.1 | 134 | <0.1 | 132 | 0.1 |
| Pseudocyttus maculatus | 455 | <0.1 | - | - | 01 | <0.1 | 434 | 0.1 | 20 | <0.1 |
| Zearaja argentinensis | 371 | <0.1 | 85 | <0.1 | 145 | 0.1 | 46 | <0.1 | 95 | <0.1 |


| Species name | 2015-2018 | \% | 2015 | \% | 2016 | \% | 2017 | \% | 2018 | \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bathyraja magellanica | 363 | <0.1 | 45 | <0.1 | 78 | <0.1 | 208 | 0.1 | 32 | <0.1 |
| Congiopodus peruvianus | 360 | <0.1 | 03 | <0.1 | 64 | $<0.1$ | 103 | <0.1 | 190 | 0.1 |
| Schroederichthys bivius | 342 | <0.1 | 57 | <0.1 | 132 | <0.1 | 152 | <0.1 | 01 | <0.1 |
| Cottunculus granulosus | 315 | <0.1 | 50 | <0.1 | 119 | $<0.1$ | 63 | <0.1 | 83 | <0.1 |
| Amblyraja cf. georgiana | 236 | <0.1 | 82 | <0.1 | 53 | <0.1 | 82 | <0.1 | 19 | <0.1 |
| Myctophid spp. | 233 | <0.1 | - | - | - | - | - | - | 233 | 0.1 |
| Brama dussumieri | 170 | <0.1 | - | - | 29 | $<0.1$ | 123 | <0.1 | 18 | <0.1 |
| Cataetyx messieri | 124 | <0.1 | 107 | <0.1 | 14 | <0.1 | 01 | <0.1 | 02 | <0.1 |
| Congridae | 120 | <0.1 | - | - | - | - | - | - | 120 | 0.1 |
| Pseudoxenomystax albescens | 110 | <0.1 | 41 | <0.1 | 61 | <0.1 | 08 | <0.1 | - | - |
| Paralomis formosa | 106 | <0.1 | 78 | <0.1 | 21 | <0.1 | 06 | <0.1 | 01 | <0.1 |
| Paranotothenia magellanica | 105 | <0.1 | 49 | <0.1 | 19 | <0.1 | 36 | <0.1 | 01 | <0.1 |
| Munida subrugosa | 103 | <0.1 | 03 | <0.1 | - | - | 100 | <0.1 | - | - |
| Others | 1,503 | 0.1 | 407 | 0.1 | 345 | 0.1 | 493 | 0.1 | 258 | 0.1 |
| Total | 1,146,072 |  | 276,569 |  | 283,502 |  | 370,832 |  | 215,169 |  |

## 6 Fishing Effort and Catch Limits

Total Allowable Effort (TAE) and Total Allowable Catch (TAC) were set by the Falkland Islands Fisheries Department for the 2019 calendar year fisheries and published (Item 1 on the technical reports list at 8.3).

## 7 Marine Stewardship Council (MSC) certification of the Patagonian toothfish (Dissostichus eleginoides) fishery

In 2012, the Fisheries Department and Consolidated Fisheries Ltd (CFL) initiated the process of obtaining Marine Steward Council (MSC) certification for the toothfish fishery in the FICZ/FOCZ. The MSC certification was awarded in March 2014, valid for 5 years. The certification was awarded with 4 Conditions, which required additional work to be conducted before the recertification cycle could start again.

Although the initial MSC certification was valid until March 2019, FIFD and CFL decided to recertify early before the planned changes in MSC certification standards go into effect. To that end, the recertification process was initiated in September 2017. During 2018, all of the Conditions of the original certification were closed and a synthesis of the work on stock discrimination, harvest control rules and benthic habitat was produced. A Public Comment Draft Report was published in June 2018, which concluded that the fishery should be certified. This was followed by a comment period during which no public comments were submitted. Therefore, the Falkland Islands Toothfish fishery was recertified without Conditions for 5 years, with a start date of 5 November 2018.

In addition, an expert external review of the toothfish fishery was conducted by Dr. Mike Bergh (OLSPS Marine) in August 2018. This review assessed the effectiveness of the stock as-
sessment management system for toothfish in the Falkland Islands, provided recommendations for areas of potential improvement, and produced a report detailing the findings of the review. It found that the present management is based on a modern approach and well-developed harvest control rules, and several recommendations for improvements were made.

A strategic plan was developed by FIFD in coordination with CFL to direct the work that needs to be conducted before the next recertification period in November 2023. This plan includes additional work on habitat information and strategies to further minimize the impact of the gear on habitats, improvements to the stock assessment modelling, reducing bycatch, and gathering more data on the impact of the fishery on the trophic function. Additional external reviews and more stakeholder engagement will also be addressed in the next four years.

## 8 Participation in Scientific Workshops, Conferences and Symposia in 2018

## $8.16^{\text {th }}$ Otolith Symposium

The Sixth International Otolith Symposium was held in Keelung, Taiwan between 16 and 23 April 2018. Participants from FIFD: A. Arkhipkin, B. Lee and J. Jones. Three oral reports were presented at the Symposium: 'Convergent evolution in vestibular systems of fish and cephalopods' by A. Arkhipkin, 'Variability in otolith shape shows evidence of stock structure in Patagonian toothfish (Dissostichus eleginoides) in the Southwest Atlantic' by B. Lee and 'Age and growth in distinct male morphotypes of a loliginid squid (Doryteuthis gahi) in Falkland Islands waters' by J. Jones. The best student presentation award was given to J. Jones by the Symposium Organisers.

## $8.23^{\text {rd }}$ Sharks International Conference - June 2018

The Sharks International Conference is the first truly international event devoted to elasmobranchs, and in 2018 it was organized by the Brazilian Society for Elasmobranch Studies (SBEEL) and the American Elasmobranch Society (AES). The conference was held in João Pessoa, Brazil between 3 and 8 June 2018. T. Farrugia participated in the conference, and presented a paper entitled "Getting to the bottom of it: Bathypelagic fauna of elasmobranchs in the Falkland Islands revealed from bycatch of the deep-sea bottom longline fishery".

### 8.3 ICES Annual Scientific Meeting - 2018

Annual Scientific Meetings are organised by the International Council for the Exploration of the Seas (ICES). In 2018, the meeting was held in Hamburg, Germany between 24 and 28 September. Participants from FIFD: A. Arkhipkin with one report presented: 'Introduction of seal exclusion devices to avoid seal bycatch in squid trawling fishery in the Falkland Islands' prepared by Arkhipkin, A.I., Blake, D., Iriarte, V.

### 8.4 Cephalopod International Advisory Council (CIAC) Symposium - 2018

The triannual CIAC Symposium was held in St. Petersburg, Florida, USA between 12 and 16 November 2018. The Symposium was attended by $\sim 280$ delegates from around the globe. Participant from FIFD: A. Arkhipkin, who presented a talk 'Divergence and convergence in evolution of sensory organs in cephalopods and fish'. Additionally, A. Arkhipkin was a chairman of the workshop 'Hard structures of cephalopods and their application in your field of study' that took place between 10 and 11 November 2018.

### 8.5 European Elasmobranch Association (EEA) Annual Conference - 2018

The $22^{\text {nd }}$ annual EEA conference was held in Peniche, Portugal from 12-14 October, 2018. The EEA is a consortium of European organization dedicated to the study, management and conservation of sharks, skates, rays and chimaeras. T. Farrugia was a coauthor on a paper presented at the conference, entitled "Species-specific reporting in Falkland Islands skate fisheries", which described the efforts of FIFD, in collaboration with the Shark Trust, to provide fishing vessels with the tools to move towards species-specific catch reporting of skates.

## 9 Publications from scientific work carried out in FIG Fisheries Department in 2018 (or in collaboration with FIG personnel)

### 9.1 Peer-reviewed publications (appeared in 2018)

Anglade, T., Randhawa, H.S., 2018. Gaining insights into the ecological role of the New Zealand sole (Peltorhamphus novaezeelandiae) through parasites. Journal of Helminthology, 92: 187-196.

Arkhipkin, A.I., 2018. Suture line complexity as an adaptation to acceleration changes during ammonoid locomotion. Cretaceous Research, 88: 46-54.

Arkhipkin, A.I., Bizikov, V.A., Doubleday, Z.A., Laptikhovsky, V.V., Lishchenko, F.V., PeralesRaya, C., Hollyman, P.R., 2018. Techniques for estimating the age and growth of Molluscs: Cephalopoda. Journal of Shellfish Research, 37: 783-792.

Jones, J.B., Arkhipkin, A.I., Marriott, A.L., Pierce, G.J., 2018. Using statolith elemental signatures to confirm ontogenetic migrations of the squid Doryteuthis gahi around the Falkland Islands (Southwest Atlantic). Chemical Geology, 481: 85-94.

Lee, B., Brewin, P., Brickle, P., Randhawa, H.S., 2018. Use of otolith shape to inform structure in Patagonian toothfish (Dissostichus eleginoides) in the Southwest Atlantic. Marine and Freshwater Research, 69: 1238-1247.

Pérez-Ponce de Léon, G., Anglade, T., Randhawa, H.S., 2018. A new species of Steringotrema Odhner, 1911 (Trematoda: Fellodistomidae) from the New Zealand sole Peltorhamphus
novaezeelandiae Günther off Kaka Point in the Catlins, South Island, New Zealand. Systematic Parasitology, 95: 213-222.

Ramos, J.E., Pecl, G.T., Moltschaniwskyj, N.A., Semmens, J.M., Souza, C.A., Strugnell, J.M., 2018. Population genetic signatures of a climate change driven marine range extension. Scientific Reports 8: 9558. DOI: 10.1038/s41598-018-27351-y.

Rasmussen, T.K., Randhawa, H.S., 2018. The influence of host diet on parasite diversity: a case study looking at tapeworm diversity among sharks. Marine Ecology Progress Series, 605: 1-16.

Sajikumar, K. K., Arkhipkin, A. I., Venkatesan, V., Jestin Joy, K. M., Binesh C. P., Sasikumar, G., Mohamed, K. S. 2018. Range extension of a bathypelagic squid, Bathyteuthis bacidifera (Cephalopoda: Bathyteuthidae), to the south Arabian Sea with special reference to its age and growth pattern. Marine Biodiversity, 48 (3): 1511-1518.

### 9.2 Technical reports

Arkhipkin, A., Goyot, L., Trevizan, T., Derbyshire, C., Hall, J. 2018. Scientific Report, Fisheries Cruise ZDLV-10-2018. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 31 p.

Blake, D., Winter, A. 2018. Impact of finfish and skate trawl fisheries on benthic bycatch, 20072016. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 46 p.

Farrugia T.J., 2018. 2017-2018 Sustainability Measures for Patagonian Toothfish. TOO-SM-2018. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands.

Farrugia T.J., 2018. Summary and Synthesis Report: Stock discrimination research overview for the Patagonian toothfish in the Falkland Islands. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands.

Farrugia T.J., 2018. Bycatch in the Patagonian toothfish longline fishery in the Falkland Islands, 2017. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands.

Farrugia T.J., 2018. PSAT Tagging Report: Patagonian Toothfish. TR-2018-TOO. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands.

Farrugia T.J., and Keningale B., 2018. Scientific Report, Fisheries Cruise ZDLK3-02-2018. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands.

Farrugia T.J., and Winter A., 2018. 2017 Stock Assessment Report for Patagonian Toothfish, Fisheries Report SA-2017-TOO. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 35 p.

Gras, M., Randhawa, H.S., Blake, A., Busbridge, T., Chemshirova, I. and Guest, A., 2018. Report of the 2018 ground fish survey ZDLM3-02-2018. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 75 p .

Iriarte, V., Arkhipkin, A., Blake, D. 2018. Pinniped (Arctocephalus australis, Otaria flavescens) bycatch mitigation in the Loligo (Doryteuthis gahi) fishing fleet during the 2nd season 2017. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 30 p.

Ramos, J.E., Winter, A. 2018. Stock assessment of kingclip (Genypterus blacodes), 2017-2018. Tech. Rep. FIG Fisheries Dept. Stanley, Falkland Islands.

Winter, A. 2018. Doryteuthis gahi stock assessment. $1^{\text {st }}$ season 2018. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 36 p.

Winter, A. 2018. Doryteuthis gahi stock assessment. $2^{\text {nd }}$ season 2018. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 34 p.

Winter, A. 2018. Stock assessment - Skates (Rajidae). Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 14 p.

Winter, A. 2018. Stock assessment - Red cod (Salilota australis). Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 22 p.

Winter, A., Gras, M. 2018. Stock assessment - Rock cod (Patagonotothen ramsayi). Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 14 p.

Winter, A., Iriarte, V., Zawadowski, T. 2018. Doryteuthis gahi stock assessment survey, ${ }^{\text {st }}$ season 2018. Tech. Doc. FIG Fisheries Dept., Stanley, Falkland Islands. 20 p.

Winter, A., Lee, B. 2018. Stock assessment - Grenadier (Macrourus carinatus, Coelorinchus fasciatus). Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 13 p.

Winter, A., Zawadowski, T., Thomas, O. 2018. Doryteuthis gahi stock assessment survey, 2nd season 2018. Tech. Doc. FIG Fisheries Dept., Stanley, Falkland Islands. 19 p.

## Contributors

Alexander Arkhipkin (Editor), sections 1.1-1.3; 2.3; 3; 6; 8;
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Thomas Farrugia, section 1.9, 2.2 and 2.4, 7
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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 | Illexargentinus | Illex squid |
| LOL | SQP | Doryteuthis gahi | Falkland Calamari |
| 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 |
| BG | BGR | Bulgaria |
| BZ | BLZ | Belize |
| CB* | KHM | Cambodia |
| CL | CHL | Chile |
| CN | CHN | China |
| DE | DEU | Germany |
| EE | EST | Estonia |
| ES | ESP | Spain |
| FK | FLK | Falkland Islands |
| FR | FRA | France |
| GH | GHC | Ghana |
| GR | GRC | Greece |
| IS | ISL | Iceland |
| IT | ITA | Italy |
| JP | JPN | Japan |
| KR | KOR | Korea |
| NA | NAM | Namibia |
| NL | NLD | Netherlands |
| NO | NOR | Norway |
| NZ | NZL | New Zealand |
| PA | PAN | Panama |
| PL | POL | Poland |
| PT | PRT | Portugal |
| RU | RUS | Russia |
| SH | SHN | Saint Helena |
| SL | SLE | Sierra Leone |
| TG | TGO | Togo |
| TW * | TWN | Taiwan |
| * Cambodia is coded as CB for these statistics and Taiwan as TW. |  |  |
|  |  |  |

## Introduction

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

| ISO Alfa-2 code | ISO Alfa-3 code | Fishing Fleet |
| :--- | :--- | :--- |
| UA | UKR | Ukraine |
| UK | GBR | United Kingdom |
| US | USA | United States of America |
| UY | URY | Uruguay |
| VC | VCT | Saint Vincent |
| VU | VUT | Vanuatu |

Table A. 4 Licence types, target species and periods of application 1989-2018

| Licence | Target species Period of application |  |
| :---: | :--- | :--- |
|  |  |  |
| First Season |  | $1989-2007$ |
| A | Unrestricted finfish | $1989-1992$ |
| B | Illex squid | $1993-$ |
|  | Illex and Martialia squid | $1989-$ |
| C | Falkland Calamari (Loligo) | $1995-2007$ |
| F | Skates and rays | $1997-209$ |
| G | Illex squid and restricted finfish* | $1994-2007$ |

Second Season

| R | Skate and rays | $1994-2007$ |
| :--- | :--- | :--- |
| X | All species | $1989-1990$ |
|  | Falkland Calamari (Loligo) | $1991-$ |
| Y | Unrestricted finfish | $1989-2007$ |
| Z | 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 $* *$ | $2008-$ |

* The ' $\mathrm{G}^{\prime}$ 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 .
** Restricted finfish - Main target species:
Patagonotothen ramsayi - Rock cod-PAR
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.
The catch entitlement generated by the ITQ held by the Crown (FIG) in the Restricted Finfish Pelagic fishery is leased to Fortuna Ltd
 : 210 N
Total $100.00 \%$
$\%$ I'II

Seaview Ltd.
Seafish (Falklands)
Ltd.
RBC Ltd.
Pioneer Seafoods
J K Marine Ltd Fortuna Ltd
굼
Byron Fishing Ltd
Bold Ventures Ltd Beauchene Fishing
Co. Ltd.
Argos Group Ltd.
Owner
Quota
Table A5

100.00\%
$100.00 \% \quad 100.00 \% \quad 100.00 \%$
$\% 00{ }^{\circ} \downarrow \varepsilon$
$11.56 \%$
$14.34 \%$
4.40\%
$10.45 \%$
N
U
da

| $n$ |
| :--- |
|  |
| $o$ |


| $N$ |
| :--- |
|  |
|  |


Finfish

## Licences

Table B. 1 Licence allocations by licence type and year

| LICENCE | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | 40 | 33 | 17 | 13 | 4 | 10 | 5 | 5 | 4 | 9 |
| B | 161 | 144 | 170 | 165 | 156 | 164 | 120 | 113 | 92 | 79 |
| C | 46 | 38 | 16 | 20 | 21 | 22 | 17 | 19 | 15 | 14 |
| E | 8 | 5 | - | 2 | 1 | 6 | 6 | 5 | 6 | 9 |
| F | - | - | - | - | - | - | 4 | 5 | - | - |
| G | - | - | - | - | - | - | - | - | 19 | 27 |
| L | - | - | - | - | - | - | - | - | - | - |
| R | - | - | - | - | - | 9 | 10 | 11 | 10 | 2 |
| S | - | - | - | - | - | - | - | - | - | - |
| W | - | - | 11 | 16 | 14 | 30 | 29 | 28 | 9 | 16 |
| X | 23 | 20 | 19 | 23 | 30 | 27 | 23 | 24 | 21 | 20 |
| Y | 70 | 17 | 15 | 6 | 5 | 10 | 9 | 6 | 11 | 8 |
| $\underline{\mathbf{Z}}$ | 24 | 35 | 40 | 46 | 43 | 47 | 60 | 43 | 36 | 27 |
|  | 372 | 292 | 288 | 291 | 274 | 325 | 283 | 259 | 223 | 211 |
| LICENCE | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| A | 11 | 10 | 6 | 6 | 6 | 8 | 9 | 11 | 11 | 23 |
| B | 86 | 109 | 116 | 125 | 122 | 90 | 71 | 43 | 56 | 44 |
| C | 17 | 17 | 16 | 17 | 16 | 16 | 16 | 16 | 16 | 17 |
| E | 8 | 5 | 1 | 1 | 8 | 8 | 12 | 8 | 6 | 4 |
| F | - | 4 | 1 | 9 | 4 | 7 | 4 | - | 1 | 8 |
| G | 30 | 16 | 19 | 19 | 24 | 17 | 12 | 20 | 18 | 23 |
| L | - | 3 | 6 | 6 | 8 | 5 | 4 | 6 | 6 | 2 |
| R | 8 | 7 | 9 | 8 | 10 | 11 | 11 | 11 | 10 | - |
| S | 2 | 3 | 3 | 4 | 3 | 4 | 2 | 2 | 2 | 3 |
| W | 21 | 11 | 13 | 10 | 23 | 25 | 17 | 21 | 14 | 27 |
| X | 18 | 15 | 19 | 17 | 18 | 18 | 16 | 16 | 17 | 19 |
| Y | 8 | 4 | 8 | 8 | 12 | 9 | 12 | 16 | 18 | - |
| $\underline{\mathbf{Z}}$ | 34 | 27 | 18 | 18 | 22 | 23 | 18 | 24 | 25 | - |
|  | 243 | 231 | 235 | 248 | 276 | 241 | 204 | 194 | 200 | 170 |
| LICENCE | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| ${ }^{*}$ * | 21 | 22 | 29 | 29 | 31 | 29 | 26 | 22 | 28 | 26 |
| B | 21 | 76 | 94 | 100 | 99 | 106 | 106 | 104 | 106 | 109 |
| C | 17 | 18 | 17 | 18 | 17 | 17 | 16 | 17 | 18 | 17 |
| E | 7 | 5 | 5 | 6 | 8 | 5 | 8 | 4 | 13 | 6 |
| F** | 8 | 8 | 7 | 8 | 8 | 8 | 8 | 8 | 7 | 6 |
| G | 27 | 23 | 25 | 25 | 25 | 22 | 21 | 22 | 18 | 18 |
| L | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 3 | 1 |
| R | - | - | - | - | - | - | - | - | - | - |
| S | 4 | 3 | 1 | 3 | 1 | 1 | 1 | 1 | - | 1 |
| $\mathbf{W}^{* * *}$ | 30 | 30 | 27 | 25 | 28 | 26 | 28 | 26 | 22 | 23 |
| X | 18 | 17 | 17 | 16 | 16 | 17 | 16 | 17 | 16 | 17 |
| Y | - | - | - | - | - | - | - | - | - | - |
| $\underline{\mathbf{Z}}$ | - | - | - | - | - | - | - | - | - | - |
|  | 154 | 203 | 223 | 231 | 235 | 233 | 231 | 222 | 231 | 224 |

*     - A + Y since 2008 ** - F + R since 2008 ** *- W + Z since 2008


## Licences

Table B. 2 Licence allocations by fishing fleet and year

| FISHING FLEET | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | - | - | - | - | - | - | - | - | - | 3 | 3 | - | - | - | - |
| BG | 9 | 14 | 8 | 6 | 2 | - | - | - | - | - | - | - | - | - | - |
| BZ | - | - | - | - | - | - | 1 | - | - | - | 2 | 5 | 2 | 1 | 3 |
| CB |  |  |  |  |  |  |  |  |  |  |  | 2 | 1 | 1 | 1 |
| CL | 1 | 1 | - | 3 | 2 | 8 | 8 | 4 | 3 | 2 | 3 | 1 | 1 | 1 | 1 |
| CN | - | - | - | - |  | - | - | - | - | 2 | 4 | 9 | 20 | 25 | 21 |
| ES | 99 | 72 | 66 | 74 | 74 | 108 | 100 | 69 | 52 | 64 | 76 | 41 | 45 | 48 | 46 |
| FK | 7 | 4 | 2 | 3 | 3 | 8 | 19 | 37 | 32 | 43 | 49 | 47 | 55 | 48 | 80 |
| FR | - | - | - | - | - | 5 | 3 | 4 | 2 | 2 | 2 | 1 | - | - | - |
| GR | 5 | 3 | - | - | - | - | - | - | - |  | - | - | - | - | - |
| HN | - | - | 2 | 3 | 4 | 7 | 8 | 2 | - |  | - | - | - | - | - |
| IS | - | - | - | - | - | - | - | 1 | 3 | - | - | - | - | - | - |
| IT | 7 | 3 | 2 | 5 | 6 | 3 | 2 | - | - | - | - | - | - | - | - |
| JP | 95 | 82 | 77 | 63 | 30 | 36 | 13 | 11 | 19 | 40 | 20 | 21 | 16 | 22 | 14 |
| KR | 30 | 32 | 42 | 55 | 60 | 86 | 105 | 112 | 98 | 48 | 71 | 84 | 67 | 70 | 62 |
| NA | - | - | - | - | - |  | - | - | 3 | 1 | 2 | - | - | - | - |
| NL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NO | - | 2 | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - |
| NZ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |
| PA | - | - | 5 | 4 | 3 | 3 | 2 | 3 | 1 | 1 | 2 | - | - | 2 | 2 |
| PL | 68 | 53 | 40 | 21 | 8 | 8 | 4 | 2 | - | - | - | - | - | - | - |
| PT | 7 | 7 | 4 | 4 | 3 | 4 | 8 | 4 | - | - | - | 1 | - | - | - |
| RU | - | - | - | - |  | 1 | - |  | - | - | - | - | 1 | - | 6 |
| SC | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - |
| SL | - | - | - | 1 | 1 | 1 | - | - |  | - | - | - | - | - | - |
| TW | 32 | 17 | 39 | 49 | 77 | 43 | 8 | 3 | 3 | 2 | 4 | 16 | 22 | 26 | 33 |
| UK | 11 | 1 | 1 | - | 1 | 3 | 2 | 5 | 3 | 3 | 5 | 3 | 3 | 3 | 4 |
| UR | - | - |  | - |  | 1 |  | - | - | - | - | - | - | - | - |
| US | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| UY |  |  |  |  |  |  |  |  |  |  |  | - | 1 | 1 | 2 |
| VC |  |  |  |  |  |  |  |  |  |  |  | - | 1 | - | - |
|  | 372 | 292 | 288 | 291 | 274 | 325 | 283 | 259 | 223 | 211 | 243 | 231 | 235 | 248 | 276 |

## Licences

Table B. 2 Licence allocations by fishing fleet and year

| FISHING FLEET | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BZ | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| CB | 1 | - | - | - | - | - | 1 | 1 | 2 | 1 | - | - | - | - | - |
| CL | 2 | - | 1 | 2 | 1 | - | 1 | - | - | - | 2 | - | - | 2 | - |
| CN | 7 | 3 | 2 | 4 | - | - | - | - | - | - | - | - | - | - | - |
| DE | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| EE | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| ES | 48 | 36 | 59 | 65 | 59 | 61 | 55 | 61 | 63 | 67 | 64 | 64 | 59 | 54 | 51 |
| FK | 71 | 73 | 69 | 62 | 54 | 55 | 58 | 58 | 57 | 60 | 52 | 52 | 49 | 61 | 59 |
| GH | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| JP | 7 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| KR | 59 | 43 | 42 | 41 | 38 | 21 | 34 | 35 | 35 | 36 | 36 | 35 | 32 | 32 | 32 |
| NA | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NZ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PA | 2 | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - |
| RU | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| SH | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| SL | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - |
| TW | 34 | 34 | 10 | 19 | 13 | 8 | 45 | 61 | 67 | 65 | 71 | 71 | 73 | 73 | 75 |
| UK | 4 | 6 | 4 | 4 | 4 | 6 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 5 | 3 |
| UY | 2 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| VU | - | 2 | - | - | - | - | 1 | 2 | - | 2 | 4 | 4 | 4 | 4 | 4 |
|  | $\mathbf{2 4 1}$ | $\mathbf{2 0 4}$ | $\mathbf{1 9 4}$ | $\mathbf{2 0 0}$ | $\mathbf{1 7 0}$ | $\mathbf{1 5 4}$ | $\mathbf{2 0 3}$ | $\mathbf{2 2 3}$ | $\mathbf{2 3 1}$ | $\mathbf{2 3 5}$ | $\mathbf{2 3 3}$ | $\mathbf{2 3 1}$ | $\mathbf{2 2 1}$ | $\mathbf{2 3 1}$ | $\mathbf{2 2 4}$ |

Table B. 3 Licence 'A' (Unrestricted finfish - first season, 1999-2007; both seasons since 2008) allocations by fishing fleet and year

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 11 | 11 | 15 | 17 | 19 | 17 | 15 | 14 | 17 | 15 |
| FK | 9 | 10 | 12 | 11 | 11 | 11 | 10 | 7 | 10 | 10 |
| KR |  |  | 1 |  |  |  |  |  | - | - |
| UK | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | $\mathbf{2 1}$ | $\mathbf{2 2}$ | $\mathbf{2 9}$ | $\mathbf{2 9}$ | $\mathbf{3 1}$ | $\mathbf{2 9}$ | $\mathbf{2 6}$ | $\mathbf{2 2}$ | $\mathbf{2 8}$ | $\mathbf{2 6}$ |

## Licences

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CB | - | 1 | 1 | 2 | 1 | - | - | - | - | - |
| FK | - | - | 1 | - | - | - | - | - | - | - |
| KR | 13 | 27 | 29 | 30 | 31 | 31 | 31 | 27 | 29 | 30 |
| SL | - | 2 | - | 1 | - | - | - | - | - | - |
| TW | 8 | 45 | 61 | 67 | 65 | 71 | 71 | 73 | 73 | 75 |
| VU | - | 1 | 2 | - | 2 | 4 | 4 | 4 | 4 | 4 |
|  | $\mathbf{2 1}$ | $\mathbf{7 6}$ | $\mathbf{9 4}$ | $\mathbf{1 0 0}$ | $\mathbf{9 9}$ | $\mathbf{1 0 6}$ | $\mathbf{1 0 6}$ | $\mathbf{1 0 4}$ | $\mathbf{1 0 6}$ | $\mathbf{1 0 9}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 3 | 2 |
| FK | 14 | 16 | 14 | 15 | 15 | 14 | 14 | 14 | 14 | 14 |
| UK | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | $\mathbf{1 7}$ | $\mathbf{1 8}$ | $\mathbf{1 7}$ | $\mathbf{1 8}$ | $\mathbf{1 7}$ | $\mathbf{1 7}$ | $\mathbf{1 6}$ | $\mathbf{1 7}$ | $\mathbf{1 8}$ | $\mathbf{1 7}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | 1 | - | - | - | - | - | - | - | - |
| DE | - | - | - | 1 | - | - | - | - | - | - |
| ES | 1 | - | 1 | - | - | - | 1 | - | - | - |
| FK | 2 | 3 | 4 | 5 | 8 | 5 | 5 | 4 | 12 | 6 |
| KR | - | - | - | - | - | - | 1 | - | - | - |
| RU | - | 1 | - | - | - | - | - | - | - | - |
| SH | 2 | - | - | - | - | - | - | - | - | - |
| UK | 2 | - | - | - | - | - | 1 | - | 1 | - |
|  | $\mathbf{7}$ | $\mathbf{5}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{8}$ | $\mathbf{5}$ | $\mathbf{8}$ | $\mathbf{4}$ | $\mathbf{1 3}$ | $\mathbf{6}$ |

## Licences

Table B. 7 Licence ' $F$ ' (Skates and rays ) allocations by fishing fleet and year

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 2 | 4 | 3 | 4 | 4 | 4 | 6 | 5 | 2 | 3 |
| FK | - | - | - | - | - | - | - | - | 3 | 2 |
| KR | 6 | 4 | 4 | 4 | 4 | 4 | 2 | 3 | 2 | 1 |
|  | $\mathbf{8}$ | $\mathbf{8}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{8}$ | $\mathbf{8}$ | $\mathbf{8}$ | $\mathbf{8}$ | $\mathbf{7}$ | $\mathbf{6}$ |

Table B. 8 Licence ' $\mathrm{G}^{\prime}$ (Illex squid and restricted finfish) allocations by fishing fleet and year

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 7 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 22 | 17 | 18 | 21 | 21 | 20 | 20 | 18 | 16 | 15 |
| FK | 5 | 6 | 7 | 4 | 4 | 2 | 1 | 4 | 2 | 3 |
|  | $\mathbf{2 7}$ | $\mathbf{2 3}$ | $\mathbf{2 5}$ | $\mathbf{2 5}$ | $\mathbf{2 5}$ | $\mathbf{2 2}$ | $\mathbf{2 1}$ | $\mathbf{2 2}$ | $\mathbf{1 8}$ | $\mathbf{1 8}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | - | - | 1 | - | - | 2 | - |
| FK | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
|  | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{2}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{3}$ | $\mathbf{1}$ |

## Licences

Table B. 10 Licence 'S' (Blue Whiting and Hoki - surimi vessels) allocations by fishing fleet and year

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | - | - | 1 | - | - | - | - |
| FK | 3 | 2 | - | 2 | 1 | - | 1 | 1 | - | 1 |
| JP | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| Grand Total | $\mathbf{4}$ | $\mathbf{3}$ | $\mathbf{1}$ | $\mathbf{3}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{1}$ |

Table B. 11 Licence 'W' (Restricted finfish) allocations by fishing fleet and year

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 22 | 20 | 20 | 18 | 21 | 19 | 20 | 18 | 15 | 15 |
| FK | 5 | 6 | 5 | 5 | 5 | 5 | 6 | 4 | 5 | 7 |
| KR | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| UK | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - |
|  | $\mathbf{3 0}$ | $\mathbf{3 0}$ | $\mathbf{2 7}$ | $\mathbf{2 5}$ | $\mathbf{2 8}$ | $\mathbf{2 6}$ | $\mathbf{2 8}$ | $\mathbf{2 5}$ | $\mathbf{2 2}$ | $\mathbf{2 2}$ |

Table B. 12 Licence ' X ' (Patagonian squid - second season) allocations by fishing fleet and year

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 |
| FK | 16 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 15 |
| UK | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | $\mathbf{1 8}$ | $\mathbf{1 7}$ | $\mathbf{1 7}$ | $\mathbf{1 6}$ | $\mathbf{1 6}$ | $\mathbf{1 7}$ | $\mathbf{1 6}$ | $\mathbf{1 7}$ | $\mathbf{1 6}$ | $\mathbf{1 7}$ |

## Licences

Table B. 13 Annual revenue (Pounds sterling) by licence type

| LICENCE | $\mathbf{1 9 8 9}$ | $\mathbf{1 9 9 0}$ | $\mathbf{1 9 9 1}$ | $\mathbf{1 9 9 2}$ | $\mathbf{1 9 9 3}$ | $\mathbf{1 9 9 4}$ | $\mathbf{1 9 9 5}$ | $\mathbf{1 9 9 6}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 537,775 | 485,949 | 300,154 | 191,586 | 119,854 | 537,775 | 485,949 | 300,154 |
| $\mathbf{B}$ | $22,723,027$ | $20,698,011$ | $20,961,399$ | $20,865,023$ | $14,301,237$ | $17,440,342$ | $10,867,548$ | $12,176,224$ |
| $\mathbf{C}$ | $4,028,578$ | $5,077,665$ | $3,286,308$ | $2,904,346$ | $3,558,704$ | $3,305,953$ | $3,473,536$ | $3,915,269$ |
| $\mathbf{E}$ | 3,000 | 1,000 | - | 12,308 | 12,303 | 163,607 | 196,725 | 107,022 |
| $\mathbf{F}$ | - | - | - | - | - | - | 74,214 | 117,243 |
| $\mathbf{G}$ | - | - | - | - | - | - | - | - |
| $\mathbf{L}$ | - | - | - | - | - | - | - | - |
| $\mathbf{R}$ | - | - | - | - | - | 140,664 | 431,363 | 446,767 |
| $\mathbf{S}$ | - | - | - | - | - | - | - | - |
| $\mathbf{W}$ | - | 113,412 | 169,895 | 206,682 | 413,290 | 500,679 | 842,504 |  |
| $\mathbf{X}$ | 377,917 | 613,764 | 572,085 | 959,803 | $1,466,992$ | $2,046,655$ | $2,173,149$ | $2,297,557$ |
| $\mathbf{Y}$ | 939,594 | 291,531 | 285,700 | 187,767 | 199,798 | 180,825 | 164,690 | 174,748 |
| $\mathbf{Z}$ | 391,332 | 774,666 | 841,843 | $1,222,974$ | $1,207,635$ | $1,335,812$ | $1,920,068$ | $1,536,543$ |
|  | $\mathbf{2 9 , 0 0 1 , 2 2 3}$ | $\mathbf{2 7 , 9 4 2 , 5 8 6}$ | $\mathbf{2 6 , 3 6 0 , 9 0 1}$ | $\mathbf{2 6 , 5 1 3 , 7 0 2}$ | $\mathbf{2 1 , 0 7 3 , 2 0 5}$ | $\mathbf{2 5 , 6 9 0 , 5 4 7}$ | $\mathbf{2 0 , 3 4 8 , 9 2 9}$ | $\mathbf{2 1 , 9 7 7 , \mathbf { 2 4 2 }}$ |


| LICENCE | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 191,586 | 186,858 | 247,467 | 264,667 | 153,200 | 229,589 | 312,757 | 239,533 |
| $\mathbf{B}$ | $12,189,748$ | $9,578,864$ | $9,349,734$ | $14,609,416$ | $16,408,604$ | $15,504,408$ | $12,122,222$ | $2,926,562$ |
| $\mathbf{C}$ | $3,489,634$ | $3,694,139$ | $3,840,651$ | $4,063,638$ | $4,515,400$ | $4,495,703$ | $1,446,088$ | $1,509,446$ |
| $\mathbf{E}$ | 180,956 | 460,752 | 471,163 | 190,113 | 0 | 0 | 34,500 | 56,925 |
| $\mathbf{F}$ | - | - | 0 | 83,714 | 41,311 | 218,114 | 85,855 | 156,778 |
| $\mathbf{G}$ | 654,702 | 900,493 | $1,321,513$ | 755,274 | $1,001,852$ | $1,176,222$ | $1,085,814$ | 558,859 |
| $\mathbf{L}$ | - | - | 0 | 237,250 | 581,856 | 581,856 | 493,873 | 581,855 |
| $\mathbf{R}$ | 429,579 | 73,733 | 452,362 | 252,959 | 405,492 | 221,071 | 240,511 | 263,006 |
| $\mathbf{S}$ | - | - | 326,903 | 980,410 | 914,033 | 792,191 | 895,352 | $1,237,335$ |
| $\mathbf{W}$ | 590,818 | 868,281 | 872,436 | 418,455 | 303,832 | 268,804 | 515,383 | 905,319 |
| $\mathbf{X}$ | $1,745,260$ | $2,157,595$ | $1,802,191$ | $1,596,130$ | $2,014,142$ | $1,759,362$ | $1,804,098$ | $2,090,748$ |
| $\mathbf{Y}$ | 284,846 | 327,707 | 235,446 | 276,522 | 375,871 | 384,723 | 434,158 | 407,128 |
| $\mathbf{Z}$ | $1,474,175$ | $1,329,126$ | $1,262,615$ | $1,051,854$ | 969,460 | 920,040 | 995,807 | 978,825 |
|  | $\mathbf{2 1 , 2 9 6 , 3 0 9}$ | $\mathbf{1 9 , 5 7 7 , 5 4 8}$ | $\mathbf{2 0 , 1 8 2 , 4 8 0}$ | $\mathbf{2 4 , 7 8 0 , 4 0 1}$ | $\mathbf{2 7 , 6 8 5 , 0 5 3}$ | $\mathbf{2 6 , 5 5 2 , 0 8 3}$ | $\mathbf{2 0 , 4 6 6 , 4 1 9}$ | $\mathbf{1 1 , 9 1 2 , 3 1 9}$ |


| LICENCE | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}^{*}$ | 160,585 | 296,901 | 428,227 | $1,129,012$ | $1,129,011$ | $1,129,012$ | $1,129,012$ | $1,129,012$ |
| $\mathbf{B}$ | $2,441,087$ | $4,509,716$ | $6,151,234$ | $4,430,958$ | 0 | 798,205 | $8,996,154$ | $9,522,332$ |
| $\mathbf{C}$ | $1,534,994$ | $1,763,009$ | $1,734,547$ | $1,939,301$ | $1,939,301$ | $1,939,301$ | $2,133,230$ | $2,133,230$ |
| $\mathbf{E}$ | 84,150 | 95,600 | - | - | - | - | - | - |
| $\mathbf{F}^{* *}$ | 49,701 | - | 7,699 | 274,579 | 247,121 | 247,121 | 247,121 | 247,121 |
| $\mathbf{G}$ | 374,079 | 909,945 | 627,065 | 769,004 | 769,004 | 845,900 | 845,900 | 845,900 |
| $\mathbf{L}$ | 533,368 | 579,782 | 907,704 | 760,700 | 760,700 | 760,700 | 836,770 | 836,770 |
| $\mathbf{R}$ | 405,720 | 285,453 | 278,912 | - | - | - | - | - |
| $\mathbf{S}$ | 449,067 | 525,669 | 554,748 | 543,770 | 543,770 | 181,257 | 181,257 | 181,257 |
| $\mathbf{\mathbf { W } ^ { * * * }}$ | 524,877 | 488,818 | 506,479 | $1,219,240$ | $1,219,240$ | $1,341,160$ | $1,341,160$ | $1,341,160$ |
| $\mathbf{X}$ | $2,510,109$ | $3,263,140$ | $3,263,140$ | $4,242,081$ | $4,242,082$ | $4,242,082$ | $4,242,082$ | $4,242,082$ |
| $\mathbf{Y}$ | 650,185 | 656,810 | 459,542 | - | - | - | - | - |
| $\mathbf{Z}$ | 834,434 | $1,026,697$ | 474,296 | - | - | - | - | - |
|  | $\mathbf{1 0 , 5 5 2 , 3 5 7}$ | $\mathbf{1 4 , 4 0 1 , 5 4 1}$ | $\mathbf{1 5 , 3 9 3 , 5 9 3}$ | $\mathbf{1 5 , 3 0 8 , 6 4 5}$ | $\mathbf{1 0 , 8 5 0 , 2 2 9}$ | $11,484,738$ | $19,952,686$ | $20,478,864$ |

## Licences

Table B. 13 Annual revenue (Pounds sterling) by licence type (continue)

| LICENCE | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | $1,129,012$ | $1,129,012$ | $1,129,012$ | $1,129,012$ | $1,129,012$ | $1,129,012$ |
| $\mathbf{B}$ | $10,597,284$ | $10,616,032$ | $11,208,479$ | $3,346,467$ | $11,093,286$ | $11,247,526$ |
| $\mathbf{C}$ | $2,133,230$ | $2,133,230$ | $2,133,230$ | $2,133,230$ | $2,133,230$ | $2,240,100$ |
| $\mathbf{E}$ | - | - | - | - | - | - |
| F | 247,121 | 247,121 | 247,121 | 247,121 | 247,121 | 247,121 |
| $\mathbf{G}$ | 845,900 | 845,900 | 845,900 | 845,900 | 845,900 | 761,300 |
| $\mathbf{L}$ | 836,770 | 836,770 | 836,770 | 836,770 | 836,770 | 920,500 |
| $\mathbf{S}$ | 181,257 | 60,419 | 60,419 | 60,419 | 60,419 | 60,419 |
| $\mathbf{W}$ | $1,341,160$ | $1,341,160$ | $1,341,160$ | $1,341,160$ | $1,341,160$ | $1,207,000$ |
| $\mathbf{X}$ | $4,242,082$ | $4,242,082$ | $4,242,082$ | $4,242,082$ | $4,242,082$ | $4,454,000$ |
|  | $\mathbf{2 1 , 5 5 3 , 8 1 6}$ | $\mathbf{2 1 , 4 5 1 , 7 2 6}$ | $\mathbf{2 2 , 0 4 4 , 1 7 3}$ | $\mathbf{1 4 , 1 8 2 , 1 6 1}$ | $\mathbf{2 1 , 9 2 8 , 9 8 0}$ | $\mathbf{2 2 , 2 6 6 , 9 7 8}$ |

*     - A + Y since 2008; ** - F+R since 2008; *** - W + Z since 2008;


## Catch summary tables

In the following tables a "-" sign means there was no catch, " 0 " means the catch has been rounded to 0 .
Table C. 1 Total catch (tonnes) by vessel type and year

| VESSEL TYPE | $\mathbf{1 9 8 9}$ | $\mathbf{1 9 9 0}$ | $\mathbf{1 9 9 1}$ | $\mathbf{1 9 9 2}$ | $\mathbf{1 9 9 3}$ | $\mathbf{1 9 9 4}$ | $\mathbf{1 9 9 5}$ | $\mathbf{1 9 9 6}$ | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CO | 59,069 | 46,211 | 27,896 | 17,669 | 1,151 | 4,807 | 3,222 | 1,569 | 811 | 274 |
| JI | 195,476 | 94,743 | 160,754 | 149,557 | 144,189 | 62,874 | 62,717 | 73,128 | 150,732 | 79,837 |
| LO | - | - | - | 131 | 10 | 2,855 | 1,901 | 992 | 1,241 | 1,787 |
| TR | 172,270 | 143,561 | 115,853 | 147,601 | 106,257 | 126,262 | 177,332 | 119,303 | 77,542 | 128,976 |
|  | $\mathbf{4 2 6 , 8 1 4}$ | $\mathbf{2 8 4 , 5 1 6}$ | $\mathbf{3 0 4 , 5 0 3}$ | $\mathbf{3 1 4 , 9 5 7}$ | $\mathbf{2 5 1 , 6 0 5}$ | $\mathbf{1 9 6 , 7 9 8}$ | $\mathbf{2 4 5 , 1 7 2}$ | $\mathbf{1 9 4 , 9 9 1}$ | $\mathbf{2 3 0 , 3 2 6}$ | $\mathbf{2 1 0 , 8 7 4}$ |
|  |  |  |  |  |  |  |  |  |  |  |
| VESSEL TYPE | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ |
| JI | 254,026 | 182,925 | 146,066 | 13,001 | 101,754 | 1,661 | 7,775 | 81,766 | 157,637 | 100,348 |
| LO | 2,077 | 2,092 | 1,684 | 1,754 | 1,832 | 2,076 | 1,791 | 1,622 | 1,539 | 1,511 |
| PO | - | - | - | - | - | - | - | 295 | 85 | - |
| TR | 120,935 | 134,089 | 117,449 | 86,224 | 105,511 | 99,361 | 117,551 | 129,832 | 142,907 | 168,193 |
|  | $\mathbf{3 7 7 , 0 3 8}$ | $\mathbf{3 1 9 , 1 0 7}$ | $\mathbf{2 6 5 , 1 9 8}$ | $\mathbf{1 0 0 , 9 7 9}$ | $\mathbf{2 0 9 , 0 9 7}$ | $\mathbf{1 0 3 , 0 9 8}$ | $\mathbf{1 2 7 , 1 1 8}$ | $\mathbf{2 1 3 , 5 1 6}$ | $\mathbf{3 0 2 , 1 6 9}$ | $\mathbf{2 7 0 , 0 5 1}$ |
|  |  |  |  |  |  |  |  |  |  |  |
| VESSEL TYPE | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| JI | 3 | 11,645 | 73,577 | 84,619 | 139,137 | 291,770 | 332,862 | 2,303 | 63,849 | 51,393 |
| LO | 1,254 | 1,061 | 1,406 | 1,222 | 1,477 | 1,367 | 1,258 | 1,160 | 1,126 | 1,083 |
| PO | - | 2 | - | - | 6 | 7 | 5 | - | - | 0 |
| TR | 152,386 | 196,463 | 150,496 | 180,194 | 123,975 | 157,825 | 128,363 | 108,032 | 103,225 | 124,152 |

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

| SPECIES | $\mathbf{1 9 8 9}$ | $\mathbf{1 9 9 0}$ | $\mathbf{1 9 9 1}$ | $\mathbf{1 9 9 2}$ | $\mathbf{1 9 9 3}$ | $\mathbf{1 9 9 4}$ | $\mathbf{1 9 9 5}$ | $\mathbf{1 9 9 6}$ | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BAC | 2,814 | 2,778 | 2,880 | 7,055 | 6,224 | 4,043 | 9,084 | 6,925 | 4,649 | 8,121 |
| BLU | 43,468 | 72,326 | 50,491 | 34,078 | 24,900 | 38,697 | 39,154 | 23,539 | 26,296 | 31,483 |
| ILL | 224,022 | 102,417 | 174,745 | 160,016 | 145,185 | 66,996 | 64,122 | 79,724 | 149,763 | 84,993 |
| KIN | 977 | 850 | 949 | 1,952 | 1,643 | 899 | 1,985 | 1,682 | 1,392 | 2,217 |
| LOL | 118,720 | 82,990 | 53,817 | 83,384 | 52,279 | 65,757 | 98,417 | 61,374 | 26,122 | 51,559 |
| MAR | - | 4 | 141 | 1 | 33 | - | 5,803 | 111 | 2,099 | - |
| HAK | 16,480 | 11,900 | 6,759 | 4,070 | 3,029 | 1,414 | 1,988 | 1,649 | 1,554 | - |
| PAT | - | - | - | - | - | - | - | - | - | 3,502 |
| RAY | 1,749 | 1,500 | 6,923 | 8,108 | 8,523 | 5,542 | 5,432 | 3,475 | 3,320 | 1,077 |
| TOO | 236 | 208 | 980 | 912 | 393 | 2,963 | 2,069 | 685 | 1,208 | 2,103 |
| WHI | 13,313 | 7,553 | 4,499 | 14,188 | 8,506 | 10,064 | 15,603 | 13,813 | 13,006 | 22,378 |
| OTH | 5,036 | 1,989 | 2,317 | 1,192 | 890 | 423 | 1,514 | 2,015 | 916 | 3,443 |
|  | $\mathbf{4 2 6 , 8 1 4}$ | $\mathbf{2 8 4 , 5 1 6}$ | $\mathbf{3 0 4 , 5 0 3}$ | $\mathbf{3 1 4 , 9 5 7}$ | $\mathbf{2 5 1 , 6 0 5}$ | $\mathbf{1 9 6 , 7 9 8}$ | $\mathbf{2 4 5 , 1 7 2}$ | $\mathbf{1 9 4 , 9 9 1}$ | $\mathbf{2 3 0 , 3 2 6}$ | $\mathbf{2 1 0 , 8 7 4}$ |

## Catch summary tables

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

| SPECIES | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BAC | 9,313 | 6,551 | 3,896 | 2,617 | 2,285 | 2,781 | 2,467 | 3,472 | 5,195 | 4,076 |
| BLU | 28,564 | 23,371 | 25,735 | 24,908 | 20,798 | 28,554 | 17,047 | 20,532 | 22,204 | 13,209 |
| COX | - | - | - | - | - | - | 8,641 | 21,012 | 30,386 | 60,601 |
| ILL | 266,201 | 189,709 | 150,631 | 13,411 | 103,375 | 1,720 | 7,937 | 85,622 | 161,506 | 106,189 |
| KIN | 2,602 | 1,875 | 1,625 | 1,224 | 1,275 | 1,841 | 1,936 | 2,822 | 3,592 | 2,227 |
| LOL | 34,866 | 64,493 | 53,560 | 23,712 | 47,422 | 26,835 | 58,813 | 43,064 | 42,003 | 52,260 |
| MAR | 29 | - | 147 | 1 | 31 | 24 | - | - | 4 | - |
| HAK | - | - | - | - | - | - | - | 8,410** | 11,909* | 8,806* |
| PAT | 4,224 | 3,069 | 1,978 | 1,678 | 1,967 | 1,926 | 2,735* | $23^{* * *}$ | - | - |
| RAY | 4,785 | 3,853 | 4,309 | 3,364 | 3,988 | 5,151 | 5,698 | 4,683 | 5,669 | 3,861 |
| TOO | 2,988 | 2,318 | 1,754 | 1,793 | 1,707 | 2,002 | 1,677 | 1,568 | 1,520 | 1,429 |
| WHI | 18,765 | 19,831 | 19,471 | 26,970 | 23,815 | 25,905 | 16,723 | 19,769 | 16,669 | 15,908 |
| GRX | - | - | - | - | - |  | 778 | 800 | 629 | 943 |
| ZYP | - | - | 76 | 59 | 685 | 1,279 | 1,358 | 1,161 | 14 | 6 |
| OTH | 4,701 | 4,037 | 2,018 | 1,242 | 1,748 | 5,080 | 1,309 | 578 | 869 | 536 |
|  | 377,038 | 319,107 | 265,198 | 100,979 | 209,097 | 103,098 | 127,118 | 213,516 | 302,169 | 270,051 |
| SPECIES | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
| BAC | 5,120 | 3,129 | 4,210 | 4,629 | 5,164 | 3,467 | 3,340 | 3,143 | 1,379 | 1,654 |
| BLU | 10,395 | 6,471 | 3,940 | 1,596 | 2,698 | 3,612 | 2,790 | 5,415 | 2,309 | 992 |
| COX | 58,236 | 76,451 | 55,705 | 63,510 | 32,435 | 56,693 | 29,086 | 7,039 | 2,520 | 2,213 |
| ILL | 44 | 12,111 | 79,264 | 87,002 | 142,619 | 306,111 | 357,722 | 2,360 | 67,445 | 54,405 |
| KIN | 3,390 | 3,639 | 3,867 | 3,510 | 3,977 | 2,881 | 2,983 | 1,612 | 1,632 | 1,445 |
| LOL | 31,474 | 66,543 | 34,675 | 70,894 | 40,168 | 48,702 | 30,317 | 46,447 | 64,676 | 79,996 |
| MAR | 0 | - | - | - | - | 10 | 0 | 0 | 0 | - |
| HAK | 13,049 | 13,606 | 9,904 | 10,489 | 12,308 | 14,875 | 21,054 | 23,363 | 15,589 | 27,021 |
| PAT *** | 0 | 0 | 0 | 0 | 0 | - | 14 | 531 | 170 | 70 |
| RAY | 5,873 | 5,891 | 6,970 | 6,655 | 5,932 | 5,555 | 6,393 | 5,906 | 3,189 | 1,994 |
| TOO | 1,418 | 1,404 | 1,560 | 1,311 | 1,422 | 1,297 | 1,227 | 1,499 | 1,519 | 1,259 |
| WHI | 23,404 | 19,227 | 22,979 | 15,867 | 16,849 | 7,392 | 6,845 | 11,562 | 4,053 | 4,438 |
| GRX | 965 | 455 | 2,062 | 225 | 517 | 216 | 367 | 2,335 | 3,273 | 484 |
| ZYP | 13 | 3 | 11 | 0 | 0 | 1 | 1 | 8 | 4 | 4 |
| OTH | 263 | 241 | 331 | 347 | 506 | 155 | 347 | 274 | 414 | 654 |
|  | 153,643 | 209,171 | 225,479 | 266,035 | 264,595 | 450,969 | 462,487 | 111,495 | 168,174 | 176,628 |

*     - Merluccius spp,
** - M.hubbsi,
*** - M.australis


## Catch summary tables

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

| MONTH | $\mathbf{1 9 8 9}$ | $\mathbf{1 9 9 0}$ | $\mathbf{1 9 9 1}$ | $\mathbf{1 9 9 2}$ | $\mathbf{1 9 9 3}$ | $\mathbf{1 9 9 4}$ | $\mathbf{1 9 9 5}$ | $\mathbf{1 9 9 6}$ | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 2,475 | $\cdot$ | 5,128 | 5,217 | 3,723 | 9,149 | 7,810 | 5,217 | 7,918 | 7,687 |
| February | 30,652 | 26,620 | 19,493 | 21,028 | 6,789 | 13,273 | 28,800 | 15,782 | 8,660 | 19,942 |
| March | 89,952 | 74,890 | 88,553 | 96,826 | 39,900 | 52,894 | 46,084 | 49,887 | 29,199 | 47,799 |
| April | 131,835 | 56,338 | 83,954 | 79,745 | 79,365 | 27,654 | 49,391 | 48,971 | 60,718 | 63,064 |
| May | 73,998 | 28,475 | 32,258 | 24,303 | 51,777 | 18,914 | 21,514 | 19,526 | 68,234 | 22,936 |
| June | 11,913 | 1,017 | 112 | 107 | 437 | 2,002 | 1,786 | 1,211 | 10,474 | 2,821 |
| July | 5,265 | 2,437 | 2,538 | 223 | 1,577 | 2,172 | 2,937 | 1,418 | 2,625 | 1,596 |
| August | 24,987 | 13,196 | 14,895 | 22,415 | 20,227 | 18,151 | 25,736 | 16,451 | 10,019 | 13,012 |
| September | 26,143 | 33,653 | 21,075 | 26,933 | 16,111 | 19,569 | 25,540 | 13,562 | 8,668 | 11,157 |
| October | 14,221 | 17,836 | 13,123 | 19,839 | 11,891 | 16,105 | 14,486 | 8,315 | 7,960 | 7,778 |
| November | 8,909 | 19,119 | 9,832 | 10,736 | 11,056 | 8,805 | 11,881 | 7,406 | 8,381 | 6,395 |
| December | 6,463 | 10,934 | 13,542 | 7,585 | 8,751 | 8,111 | 9,205 | 7,245 | 7,470 | 6,689 |
|  | $\mathbf{4 2 6 , 8 1 4}$ | $\mathbf{2 8 4 , 5 1 6}$ | $\mathbf{3 0 4 , 5 0 3}$ | $\mathbf{3 1 4 , 9 5 7}$ | $\mathbf{2 5 1 , 6 0 5}$ | $\mathbf{1 9 6 , 7 9 8}$ | $\mathbf{2 4 5 , 1 7 2}$ | $\mathbf{1 9 4 , 9 9 1}$ | $\mathbf{2 3 0 , 3 2 6}$ | $\mathbf{2 1 0 , 8 7 4}$ |


| MONTH | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 6,605 | 5,213 | 6,497 | 3,536 | 5,881 | 2,901 | 1,712 | 2,181 | 2,381 | 4,072 |
| February | 29,626 | 47,924 | 10,926 | 12,306 | 16,612 | 9,405 | 7,562 | 10,867 | 11,142 | 14,326 |
| March | 98,631 | 94,536 | 81,574 | 17,335 | 91,036 | 15,081 | 27,436 | 48,141 | 40,210 | 38,998 |
| April | 104,827 | 63,840 | 71,936 | 13,811 | 37,830 | 11,292 | 10,581 | 46,987 | 86,244 | 65,736 |
| May | 73,790 | 48,684 | 38,621 | 15,504 | 5,680 | 4,930 | 3,870 | 28,058 | 69,293 | 46,779 |
| June | 12,665 | 2,854 | 2,199 | 1,473 | 1,385 | 727 | 712 | 1,840 | 8,694 | 16,356 |
| July | 2,313 | 2,502 | 1,299 | 253 | 877 | 6,771 | 11,786 | 10,168 | 12,356 | 10,254 |
| August | 13,364 | 16,528 | 17,380 | 11,863 | 21,491 | 14,344 | 22,575 | 23,414 | 26,175 | 20,967 |
| September | 11,853 | 16,874 | 15,306 | 5,751 | 14,513 | 10,571 | 17,115 | 15,654 | 20,049 | 23,084 |
| October | 9,857 | 8,333 | 12,413 | 5,668 | 8,831 | 13,552 | 11,010 | 13,520 | 14,000 | 15,444 |
| November | 7,138 | 7,306 | 4,933 | 8,638 | 3,981 | 8,412 | 9,646 | 8,895 | 9,768 | 9,967 |
| December | 6,370 | 4,513 | 2,112 | 4,841 | 980 | 5,114 | 3,113 | 3,790 | 1,856 | 4,070 |
|  | $\mathbf{3 7 7 , 0 3 8}$ | $\mathbf{3 1 9 , 1 0 7}$ | $\mathbf{2 6 5 , 1 9 8}$ | $\mathbf{1 0 0 , 9 7 9}$ | $\mathbf{2 0 9 , 0 9 7}$ | $\mathbf{1 0 3 , 0 9 8}$ | $\mathbf{1 2 7 , 1 1 8}$ | $\mathbf{2 1 3 , 5 1 6}$ | $\mathbf{3 0 2 , 1 6 9}$ | $\mathbf{2 7 0 , 0 5 1}$ |
|  |  |  |  |  |  |  |  |  |  |  |
| MONTH | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| January | 3,804 | 2,742 | 4,973 | 625 | 3,758 | 142 | 217 | 3,458 | 497 | 127 |
| February | 12,427 | 12,883 | 11,110 | 17,747 | 8,684 | 4,136 | 18,848 | 10,231 | 2,901 | 6,360 |
| March | 20,338 | 40,981 | 75,786 | 75,158 | 39,918 | 84,249 | 132,218 | 15,693 | 51,813 | 59,604 |
| April | 18,753 | 30,748 | 37,109 | 54,366 | 72,662 | 155,782 | 164,810 | 19,478 | 53,614 | 34,512 |
| May | 17,809 | 16,803 | 18,678 | 26,086 | 68,741 | 102,399 | 89,798 | 9,302 | 9,674 | 11,339 |
| June | 5,955 | 6,948 | 8,222 | 7,749 | 7,817 | 23,929 | 11,276 | 4,871 | 2,359 | 4,525 |
| July | 14,481 | 17,796 | 15,423 | 13,019 | 8,022 | 16,834 | 6,453 | 6,614 | 6,794 | 9,823 |
| August | 16,506 | 28,251 | 18,736 | 30,540 | 18,437 | 22,030 | 14,286 | 19,333 | 16,881 | 28,271 |
| September | 15,139 | 22,304 | 13,130 | 19,041 | 20,021 | 18,973 | 9,711 | 13,089 | 14,890 | 14,534 |
| October | 13,499 | 12,286 | 10,381 | 12,185 | 8,966 | 10,816 | 5,224 | 6,788 | 5,145 | 4,869 |
| November | 9,328 | 9,881 | 6,693 | 5,829 | 4,275 | 8,682 | 3,761 | 1,281 | 2,800 | 964 |
| December | 5,605 | 7,548 | 5,237 | 3,689 | 3,294 | 2,997 | 5,885 | 1,357 | 806 | 1,699 |
|  | $\mathbf{1 5 3 , 6 4 3}$ | $\mathbf{2 0 9 , 1 7 1}$ | $\mathbf{2 2 5 , 4 7 9}$ | $\mathbf{2 6 6 , 0 3 5}$ | $\mathbf{2 6 4 , 5 9 5}$ | $\mathbf{4 5 0 , 9 6 9}$ | $\mathbf{4 6 2 , 4 8 7}$ | $\mathbf{1 1 1 , 4 9 5}$ | $\mathbf{1 6 8 , 1 7 4}$ | $\mathbf{1 7 6 , 6 2 8}$ |
|  |  |  |  |  |  |  |  |  |  |  |

## Catch summary tables

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 4 0 0}$ | - | - | - | - | 6 | 7 | 5 | - | - | 0 |
| $\mathbf{4 0 0 - 5 9 9}$ | - | 98 | 761 | 936 | 1,245 | 2,579 | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 11,607 | 16,299 | 30,329 | 35,335 | 42,597 | 69,012 | 55,821 | 5,025 | 11,143 | 9,263 |
| $\mathbf{8 0 0 - 9 9 9}$ | 19,439 | 23,756 | 61,453 | 71,471 | 102,421 | 213,012 | 264,130 | 21,487 | 58,509 | 48,355 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 65,152 | 78,975 | 68,620 | 76,220 | 69,023 | 102,124 | 90,293 | 31,278 | 34,371 | 43,944 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 31,081 | 46,090 | 38,032 | 44,253 | 27,628 | 35,706 | 28,176 | 29,271 | 32,893 | 35,621 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 18,921 | 37,934 | 21,060 | 37,005 | 21,246 | 26,848 | 24,061 | 24,364 | 31,258 | 39,445 |
| $\mathbf{> 2 , 9 9 9}$ | 7,443 | 6,018 | 5,225 | 816 | 428 | 1,681 | - | 70 | - | - |
|  | $\mathbf{1 5 3 , 6 4 3}$ | $\mathbf{2 0 9 , 1 7 1}$ | $\mathbf{2 2 5 , 4 7 9}$ | $\mathbf{2 6 6 , 0 3 5}$ | $\mathbf{2 6 4 , 5 9 5}$ | $\mathbf{4 5 0 , 9 6 9}$ | $\mathbf{4 6 2 , 4 8 7}$ | $\mathbf{1 1 1 , 4 9 5}$ | $\mathbf{1 6 8 , 1 7 4}$ | $\mathbf{1 7 6 , 6 2 8}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 5}$ | 2,046 | 730 | 2,831 | 936 | 1,720 | 2,823 | 640 | 980 | - | 122 |
| $\mathbf{4 5 - 4 9}$ | 17,394 | 16,171 | 15,274 | 20,185 | 21,635 | 28,768 | 28,004 | 8,292 | 8,733 | 9,753 |
| $\mathbf{5 0 - 5 4}$ | 9,721 | 14,483 | 28,355 | 35,276 | 34,427 | 65,494 | 48,195 | 12,287 | 10,139 | 10,151 |
| $\mathbf{5 5 - 5 9}$ | 18,719 | 28,268 | 39,304 | 40,970 | 47,933 | 64,761 | 65,173 | 10,209 | 19,165 | 17,432 |
| $\mathbf{6 0 - 6 4}$ | 38,835 | 47,299 | 54,956 | 63,919 | 63,906 | 89,551 | 88,549 | 26,422 | 33,336 | 38,369 |
| $\mathbf{6 5 - 6 9}$ | 27,193 | 43,688 | 40,688 | 48,645 | 42,539 | 82,334 | 95,290 | 21,247 | 38,330 | 36,523 |
| $\mathbf{7 0 - 7 9}$ | 27,880 | 42,230 | 32,516 | 44,114 | 45,844 | 107,662 | 129,563 | 24,059 | 50,880 | 50,644 |
| $\mathbf{8 0 - 8 9}$ | 2,303 | 4,666 | 3,121 | 5,250 | 2,919 | 3,770 | 3,315 | 3,800 | 5,245 | 6,522 |
| $\mathbf{8 8 9}$ | 9,552 | 11,635 | 8,435 | 6,743 | 3,672 | 5,805 | 3,758 | 4,199 | 2,345 | 7,112 |
|  | $\mathbf{1 5 3 , 6 4 3}$ | $\mathbf{2 0 9 , 1 7 1}$ | $\mathbf{2 2 5 , 4 7 9}$ | $\mathbf{2 6 6 , 0 3 5}$ | $\mathbf{2 6 4 , 5 9 5}$ | $\mathbf{4 5 0 , 9 6 9}$ | $\mathbf{4 6 2 , 4 8 7}$ | $\mathbf{1 1 1 , 4 9 5}$ | $\mathbf{1 6 8 , 1 7 4}$ | $\mathbf{1 7 6 , 6 2 8}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 , 0 0 0}$ | - | 2 | - | - | 830 | 7 | 5 | - | - | 478 |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 730 | 1,797 | 936 | 1,714 | 2,816 | 635 | 980 | - | 621 |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 2,172 | 3,748 | 6,975 | 9,397 | 12,328 | 17,228 | 14,155 | 23 | 2,434 | 1,989 |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 21,362 | 18,832 | 35,046 | 37,646 | 39,422 | 69,104 | 55,480 | 15,246 | 13,279 | 12,872 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 15,174 | 20,935 | 19,209 | 22,881 | 25,948 | 43,895 | 40,720 | 9,202 | 9,496 | 7,891 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 37,936 | 55,212 | 62,542 | 69,147 | 64,523 | 93,089 | 88,249 | 22,722 | 29,987 | 24,924 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 40,877 | 49,759 | 56,919 | 63,413 | 66,348 | 131,972 | 147,083 | 25,961 | 46,872 | 46,699 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 5,067 | 9,755 | 13,727 | 19,821 | 25,479 | 52,965 | 78,890 | 9,012 | 25,675 | 31,148 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 18,577 | 33,923 | 18,069 | 31,568 | 18,479 | 22,797 | 20,737 | 19,688 | 27,880 | 35,760 |
| $\mathbf{> 3 , 9 9 9}$ | 12,478 | 16,274 | 11,194 | 11,227 | 9,525 | 17,097 | 16,531 | 8,660 | 12,550 | 14,245 |
|  | $\mathbf{1 5 3 , 6 4 3}$ | $\mathbf{2 0 9 , 1 7 1}$ | $\mathbf{2 2 5 , 4 7 9}$ | $\mathbf{2 6 6 , 0 3 5}$ | $\mathbf{2 6 4 , 5 9 5}$ | $\mathbf{4 5 0 , 9 6 9}$ | $\mathbf{4 6 2 , 4 8 7}$ | $\mathbf{1 1 1 , 4 9 5}$ | $\mathbf{1 6 8 , 1 7 4}$ | $\mathbf{1 7 6 , 6 2 8}$ |

## Catch summary tables

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

| FISHING FLEET | $\mathbf{1 9 8 9}$ | $\mathbf{1 9 9 0}$ | $\mathbf{1 9 9 1}$ | $\mathbf{1 9 9 2}$ | $\mathbf{1 9 9 3}$ | $\mathbf{1 9 9 4}$ | $\mathbf{1 9 9 5}$ | $\mathbf{1 9 9 6}$ | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | - | - | - | - | - | - | - | - | - | 3593 |
| BG | 13,503 | 22,369 | 21,888 | 8,981 | 2,976 | - | - | - | - | - |
| BZ | - | - | - | - | - | - | 585 | - | - | - |
| CL | 1,150 | 1,884 | - | 3,145 | 1,514 | 5,223 | 9,997 | 6,638 | 8,199 | 8849 |
| CN | - | - | - | - | - | - | - | - | - | 1177 |
| ES | 82,345 | 65,908 | 57,605 | 87,763 | 58,143 | 67,191 | 89,284 | 40,842 | 20,510 | 40307 |
| FK | 781 | 5,853 | 1,470 | 1,846 | 1,978 | 5,906 | 27,184 | 31,520 | 17,117 | 43578 |
| FR | - | - | - | - | - | 1,945 | 7,369 | 4,600 | 1,545 | 4177 |
| GR | 4,960 | 3,121 | - | - | - | - | - | - | - | - |
| HN | - | - | 1,712 | 2,761 | 3,681 | 2,976 | 2,833 | 850 | - | - |
| IS | - | - | - | - | - | - | - | 214 | 268 | - |
| IT | 10,391 | 4,547 | 2,409 | 2,923 | 2,142 | 1,181 | 218 | - | - | - |
| JP | 125,567 | 60,028 | 93,652 | 68,325 | 39,510 | 39,916 | 25,583 | 24,870 | 46,060 | 56992 |
| KR | 51,133 | 32,996 | 61,614 | 72,489 | 65,228 | 42,987 | 63,236 | 73,861 | 129,546 | 45082 |
| NA | - | - | - | - | - | - | - | - | 303 | 676 |
| NL | 4,587 | 3,369 | - | - | - | - | - | - | - | - |
| NO | - | 1,384 | - | - | - | - | - | 319 | 210 | - |
| PA | - | - | 2,425 | 4,027 | 1,060 | 598 | 459 | 706 | - | 1098 |
| PL | 74,039 | 64,765 | 43,878 | 32,996 | 12,442 | 11,178 | 8,861 | 3,262 | - | - |
| PT | 9,143 | 6,430 | 3,268 | 1,548 | 1,809 | 2,512 | 5,157 | 1,052 | - | - |
| RU | - | - | - | - | - | 39 | - | - | - | - |
| SC |  |  |  |  |  |  |  |  | 1,252 | - |
| SL | - | - | - | 1,150 | 822 | 373 | - | - | - | - |
| TW | 37,529 | 10,479 | 12,590 | 27,002 | 59,853 | 13,497 | 2,323 | 1,901 | 3,013 | 1734 |
| UK | 11,685 | 1,383 | 1,992 | - | 445 | 1,255 | 2,083 | 4,357 | 2,302 | 3575 |
| UR | - | - | - | - | - | 21 | - | - | - | - |
| UY | - | - | - | - | - | - | - | - | - | 36 |
|  | $\mathbf{4 2 6 , 8 1 4}$ | $\mathbf{2 8 4 , 5 1 6}$ | $\mathbf{3 0 4 , 5 0 3}$ | $\mathbf{3 1 4 , 9 5 7}$ | $\mathbf{2 5 1 , 6 0 5}$ | $\mathbf{1 9 6 , 7 9 8}$ | $\mathbf{2 4 5 , 1 7 2}$ | $\mathbf{1 9 4 , 9 9 1}$ | $\mathbf{2 3 0 , 3 2 6}$ | $\mathbf{2 1 0 , 8 7 4}$ |
|  |  |  |  |  |  |  |  |  |  |  |


| FISHING FLEET | $\mathbf{1 9 9 9}$ | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | 3,711 | - | - | - | - | - | - | - | - | - |
| BZ | 4,511 | 6,729 | 2,581 | 136 | 2,788 | 42 | 61 | - | 2,285 | - |
| CB | - | 2,768 | 1,204 | 33 | 857 | 17 | - | - | - | - |
| CL | 5,491 | 2,749 | 8,014 | 9,252 | 6,490 | 9,752 | - | 2,131 | 3,948 | 1,640 |
| CN | 7,301 | 11,641 | 18,838 | 1,203 | 12,652 | 99 | 99 | 3,555 | 8,575 | - |
| EE | - | - | - | - | - | 226 | - | 1,427 | - | - |
| ES | 35,909 | 30,732 | 29,170 | 23,972 | 20,169 | 22,488 | 24,559 | 42,057 | 56,187 | 72,152 |
| FK | 39,131 | 62,947 | 59,820 | 35,732 | 60,596 | 43,320 | 71,204 | 65,255 | 65,809 | 76,969 |
| FR | 2,381 | 2,053 | - | - | - | - | - | - | - | - |
| GH | - | - | - | - | - | - | - | 1,244 | - | - |
| JP | 57,971 | 41,737 | 27,913 | 14,485 | 18,923 | 15,062 | 11,230 | 12,049 | 9,042 | 8,820 |
| KR | 207,795 | 128,940 | 86,587 | 12,637 | 53,677 | 6,008 | 10,076 | 61,748 | 101,162 | 81,267 |
| NA | 746 | - | - | - | - | 1,181 | - | - | - | - |
| NZ | - | - | - | - | 69 | - | - | - | - | - |
| PA | 61 | - | - | - | - | - | 194 | 585 | 1,254 | - |
| PT | - | 66 | - | - | - | - | - | - | - | - |
| RU | - | - | 228 | - | 6,891 | 31 | - | - | - | - |
| TW | 8,771 | 23,243 | 25,380 | 1,190 | 22,057 | 866 | 3,106 | 18,554 | 49,985 | 24,353 |
| UK | 3,259 | 5,501 | 3,564 | 2,279 | 3,238 | 2,703 | 5,100 | 3,742 | 3,923 | 4,850 |
| UY | - | - | 81 | 61 | 690 | 1,303 | 1,369 | 1,169 | - | - |
| VC | - | - | 1,820 | - | - | - | - | - | - | - |
| VU | - | - | - | - | - | - | 120 | - | - | - |

## Catch summary tables

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CB | - | 94 | 1,144 | 1,695 | 1,468 | - | - | - | - | - |
| CL | - | - | - | - | - | 1,729 | - | - | 276 | - |
| ES | 80,267 | 88,060 | 77,862 | 84,914 | 59,001 | 81,262 | 68,438 | 48,164 | 34,020 | 35,017 |
| FK | 58,549 | 93,191 | 62,196 | 85,832 | 60,474 | 67,688 | 52,458 | 55,263 | 63,892 | 84,049 |
| JP | 7,443 | 6,018 | 4,745 | 109 | - | - | - | - | - | - |
| KR | 3,317 | 9,407 | 26,310 | 32,786 | 52,216 | 107,337 | 101,313 | 2,743 | 17,902 | 13,438 |
| RU | - | 2 | - | - | - | - | - | - | - | - |
| SL | - | 178 | - | 340 | - | - | - | - | - | - |
| TW | - | 5,808 | 48,540 | 55,327 | 86,147 | 178,375 | 223,334 | 2,064 | 45,209 | 36,544 |
| UK | 4,067 | 6,271 | 2,861 | 5,033 | 2,968 | 3,528 | 3,749 | 3,184 | 4,212 | 4,902 |
| VU | - | 142 | 1,821 | - | 2,322 | 11,051 | 13,195 | 77 | 2,664 | 2,677 |
|  | $\mathbf{1 5 3 , 6 4 3}$ | $\mathbf{2 0 9 , 1 7 1}$ | $\mathbf{2 2 5 , 4 7 9}$ | $\mathbf{2 6 6 , 0 3 5}$ | $\mathbf{2 6 4 , 5 9 5}$ | $\mathbf{4 5 0 , 9 6 9}$ | $\mathbf{4 6 2 , 4 8 7}$ | $\mathbf{1 1 1 , 4 9 5}$ | $\mathbf{1 6 8 , 1 7 4}$ | $\mathbf{1 7 6 , 6 2 8}$ |

## Illex argentinus-Illex squid

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

| VESSEL TYPE | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{J I}$ | 3 | 11,645 | 73,577 | 84,619 | 139,137 | 291,760 | 332,862 | 2,303 | 63,807 | 51,393 |
| TR | 41 | 466 | 5,688 | 2,383 | 3,481 | 14,351 | 24,861 | 57 | 3,638 | 3,012 |
|  | $\mathbf{4 4}$ | $\mathbf{1 2 , 1 1 1}$ | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 1 1}$ | $\mathbf{3 5 7 , 7 2 2}$ | $\mathbf{2 , 3 6 0}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 4 0 5}$ |

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

| MONTH | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | - | - | - | 1 | - | - | - | 1 | 0 | - |
| February | 1 | 134 | 987 | 9,247 | 195 | 13 | 13,916 | 83 | 9 | 3,817 |
| March | 30 | 9,847 | 60,836 | 40,558 | 20,910 | 66,649 | 110,741 | 2,055 | 29,892 | 34,155 |
| April | 11 | 2,128 | 17,382 | 29,213 | 57,455 | 137,647 | 153,163 | 199 | 33,121 | 14,647 |
| May | 1 | 1 | 59 | 7,959 | 59,361 | 87,699 | 75,544 | 19 | 4,415 | 1,785 |
| June | 0 | - | 0 | 23 | 4,695 | 14,007 | 4,352 | 2 | 8 | 1 |
| July | - | - | - | - | 2 | 94 | 6 | 0 | 0 | 0 |
| August | - | - | - | - | 2 | 1 | 0 | 0 | 0 | 0 |
| September | - | 0 | - | - | 0 | 0 | 1 | 0 | 0 | 0 |
| October | - | 1 | - | 0 | - | - | - | 1 | 0 | - |
| November | - | - | 0 | - | - | - | - | - | - | - |
| December | - | - | 0 | - | - | - | - | 0 | 0 | 0 |
|  | $\mathbf{4 4}$ | $\mathbf{1 2 , 1 1 1}$ | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 1 1}$ | $\mathbf{3 5 7 , 7 2 2}$ | $\mathbf{2 , 3 6 0}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 4 0 5}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CB | - | 94 | 1,144 | 1,695 | 1,468 | - | - | - | - | - |
| ES | 33 | 187 | 2,035 | 509 | 2,798 | 9,527 | 9,809 | 46 | 2,800 | 1,545 |
| FK | 8 | 67 | 2,828 | 572 | 650 | 2,873 | 11,889 | 12 | 278 | 946 |
| KR | 3 | 5,635 | 22,892 | 28,554 | 49,236 | 104,251 | 98,588 | 162 | 16,491 | 12,693 |
| SL | - | 178 | - | 340 | - | - | - | - | - | - |
| TW | - | 5,808 | 48,540 | 55,327 | 86,147 | 178,375 | 223,334 | 2,064 | 45,209 | 36,544 |
| UK | 0 | - | 4 | 6 | 0 | 36 | 909 | - | 3 | 0 |
| VU | - | 142 | 1,821 | - | 2,322 | 11,051 | 13,195 | 77 | 2,664 | 2,677 |
|  | $\mathbf{4 4}$ | $\mathbf{1 2 , 1 1 1}$ | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 1 1}$ | $\mathbf{3 5 7 , 7 2 2}$ | $\mathbf{2 , 3 6 0}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 4 0 5}$ |

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | 98 | 761 | 936 | 1,245 | 2,579 | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 3 | 4,173 | 21,395 | 24,365 | 35,080 | 61,701 | 49,495 | 72 | 7,625 | 4,896 |
| $\mathbf{8 0 0 - 9 9 9}$ | 6 | 6,679 | 46,325 | 54,022 | 85,758 | 192,663 | 246,465 | 2,042 | 49,872 | 37,174 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 34 | 1,064 | 8,428 | 7,576 | 19,714 | 46,919 | 49,307 | 233 | 9,251 | 11,871 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 1 | 96 | 1,184 | 102 | 821 | 2,131 | 5,474 | 11 | 691 | 438 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 0 | - | 1,173 | 1 | 0 | 119 | 6,981 | 2 | 6 | 27 |
| $\mathbf{> 2 , 9 9 9}$ | - | - | - | - | - | 0 | - | - | - | - |
|  | $\mathbf{4 4}$ | $\mathbf{1 2 , 1 1 1}$ | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 1 1}$ | $\mathbf{3 5 7 , 7 2 2}$ | $\mathbf{2 , 3 6 0}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 4 0 5}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 5}$ | 0 | 98 | 871 | 936 | 1,245 | 2,579 | - | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 4 | 1,277 | 5,339 | 6,641 | 11,649 | 19,696 | 19,412 | 18 | 3,192 | 3,375 |
| $\mathbf{5 0 - 5 4}$ | 4 | 3,491 | 17,241 | 20,295 | 24,564 | 51,798 | 37,276 | 25 | 5,194 | 3,161 |
| $\mathbf{5 5 - 5 9}$ | 1 | 2,545 | 19,804 | 20,272 | 30,711 | 52,916 | 54,414 | 356 | 10,285 | 5,394 |
| $\mathbf{6 0 - 6 4}$ | 18 | 2,248 | 17,785 | 20,030 | 30,256 | 49,784 | 59,732 | 236 | 9,655 | 7,248 |
| $\mathbf{6 5 - 6 9}$ | 3 | 2,058 | 12,759 | 13,263 | 21,274 | 53,085 | 76,114 | 737 | 17,347 | 16,091 |
| $\mathbf{7 0 - 7 9}$ | 14 | 393 | 5,081 | 5,565 | 22,920 | 76,242 | 108,638 | 987 | 21,770 | 19,110 |
| $\mathbf{8 0 - 8 9}$ | - | - | 144 | - | - | 6 | 965 | 0 | 2 | 8 |
| $>\mathbf{8 9}$ | 0 | - | 240 | - | 0 | 4 | 1,172 | 0 | - | 18 |
|  | $\mathbf{4 4}$ | $\mathbf{1 2 , 1 1 1}$ | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 1 1}$ | $\mathbf{3 5 7 , 7 2 2}$ | $\mathbf{2 , 3 6 0}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 4 0 5}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 , 0 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 98 | 761 | 936 | 1,245 | 2,579 | - | - | - | 621 |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | - | 947 | 5,208 | 6,132 | 9,847 | 14,863 | 12,681 | 23 | 2,434 | 1,989 |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 5 | 3,404 | 20,671 | 21,118 | 27,651 | 52,921 | 42,309 | 93 | 5,514 | 2,917 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 17 | 1,710 | 6,848 | 9,705 | 15,714 | 33,633 | 32,999 | 114 | 5,381 | 2,970 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 7 | 2,981 | 21,969 | 23,298 | 33,067 | 60,353 | 62,981 | 268 | 12,200 | 8,184 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 14 | 2,025 | 15,219 | 18,238 | 34,337 | 90,078 | 117,934 | 947 | 19,916 | 16,347 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 0 | 946 | 7,488 | 7,565 | 17,615 | 43,778 | 71,528 | 788 | 20,271 | 20,038 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 0 | - | 793 | 7 | 0 | 144 | 5,753 | 1 | 7 | 12 |
| $\mathbf{> 3 , 9 9 9}$ | - | - | 307 | 2 | 3,144 | 7,763 | 11,538 | 126 | 1,721 | 1,328 |
|  | $\mathbf{4 4}$ | $\mathbf{1 2 , 1 1 1}$ | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 1 1}$ | $\mathbf{3 5 7 , 7 2 2}$ | $\mathbf{2 , 3 6 0}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 4 0 5}$ |

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | 98 | 761 | 936 | 1,245 | 2,579 | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | - | 4,152 | 21,000 | 24,327 | 34,767 | 60,482 | 48,489 | 68 | 7,266 | 4,455 |
| $\mathbf{8 0 0 - 9 9 9}$ | 3 | 6,457 | 45,065 | 52,609 | 85,278 | 188,189 | 242,580 | 2,033 | 48,762 | 35,726 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 1 | 937 | 6,751 | 6,748 | 17,848 | 40,510 | 41,792 | 202 | 7,779 | 11,211 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{> 2 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
|  | $\mathbf{3}$ | $\mathbf{1 1 , 6 4 5}$ | $\mathbf{7 3 , 5 7 7}$ | $\mathbf{8 4 , 6 1 9}$ | $\mathbf{1 3 9 , 1 3 7}$ | $\mathbf{2 9 1 , 7 6 0}$ | $\mathbf{3 3 2 , 8 6 2}$ | $\mathbf{2 , 3 0 3}$ | $\mathbf{6 3 , 8 0 7}$ | $\mathbf{5 1 , 3 9 3}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 4 5}$ | - | 98 | 761 | 936 | 1,245 | 2,579 | - | - | - | - |
| $\mathbf{4 5 - 4 9}$ | - | 1,256 | 4,973 | 6,610 | 11,326 | 18,780 | 18,136 | 15 | 2,938 | 2,487 |
| $\mathbf{5 0 - 5 4}$ | 2 | 3,273 | 16,346 | 18,870 | 24,287 | 48,080 | 34,429 | 20 | 4,359 | 2,371 |
| $\mathbf{5 5 - 5 9}$ | - | 2,527 | 19,081 | 19,894 | 30,141 | 51,404 | 52,549 | 348 | 9,505 | 5,070 |
| $\mathbf{6 0 - 6 4}$ | 0 | 2,154 | 16,409 | 19,619 | 28,849 | 45,361 | 53,970 | 210 | 9,015 | 6,807 |
| $\mathbf{6 5 - 6 9}$ | - | 1,967 | 12,164 | 13,163 | 20,896 | 50,906 | 71,204 | 726 | 16,231 | 15,591 |
| $\mathbf{7 0 - 7 9}$ | 1 | 370 | 3,843 | 5,529 | 22,393 | 74,650 | 102,574 | 984 | 21,759 | 19,068 |
| $\mathbf{8 0 - 8 9}$ | - | - | - | - | - | - | - | - | - | - |
| $>\mathbf{8 9}$ | - | - | - | - | - | - | - | - | - | - |
|  | $\mathbf{3}$ | $\mathbf{1 1 , 6 4 5}$ | $\mathbf{7 3 , 5 7 7}$ | $\mathbf{8 4 , 6 1 9}$ | $\mathbf{1 3 9 , 1 3 7}$ | $\mathbf{2 9 1 , 7 6 0}$ | $\mathbf{3 3 2 , 8 6 2}$ | $\mathbf{2 , 3 0 3}$ | $\mathbf{6 3 , 8 0 7}$ | $\mathbf{5 1 , 3 9 3}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1 , 0 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 98 | 761 | 936 | 1,245 | 2,579 | - | - | - | 621 |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | - | 946 | 5,208 | 6,127 | 9,621 | 14,306 | 12,350 | 23 | 2,434 | 1,989 |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | - | 3,386 | 20,053 | 21,034 | 27,247 | 50,110 | 40,864 | 82 | 4,770 | 2,167 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 3 | 1,643 | 6,419 | 9,424 | 15,402 | 31,772 | 31,527 | 94 | 5,126 | 2,936 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 1 | 2,879 | 20,887 | 22,837 | 32,067 | 57,113 | 59,143 | 253 | 10,607 | 6,932 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | - | 1,959 | 13,821 | 18,068 | 32,901 | 86,651 | 111,649 | 938 | 19,608 | 16,045 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | - | 734 | 6,428 | 6,194 | 17,510 | 41,478 | 67,731 | 788 | 19,547 | 19,383 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{> 3 , 9 9 9}$ | - | - | - | - | 3,144 | 7,752 | 9,599 | 125 | 1,715 | 1,320 |
|  | $\mathbf{3}$ | $\mathbf{1 1 , 6 4 5}$ | $\mathbf{7 3 , 5 7 7}$ | $\mathbf{8 4 , 6 1 9}$ | $\mathbf{1 3 9 , 1 3 7}$ | $\mathbf{2 9 1 , 7 6 0}$ | $\mathbf{3 3 2 , 8 6 2}$ | $\mathbf{2 , 3 0 3}$ | $\mathbf{6 3 , 8 0 7}$ | $\mathbf{5 1 , 3 9 3}$ |

## Illex argentinus-Illex squid

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 3 | 21 | 394 | 38 | 314 | 1,219 | 1,006 | 4 | 359 | 440 |
| $\mathbf{8 0 0 - 9 9 9}$ | 4 | 222 | 1,259 | 1,413 | 480 | 4,474 | 3,885 | 9 | 1,109 | 1,448 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 34 | 127 | 1,678 | 828 | 1,866 | 6,409 | 7,515 | 32 | 1,473 | 659 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 1 | 96 | 1,184 | 102 | 821 | 2,131 | 5,474 | 11 | 691 | 438 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 0 | - | 1,173 | 1 | 0 | 119 | 6,981 | 2 | 6 | 27 |
| $\mathbf{> 2 , 9 9 9}$ | - | - | - | - | - | 0 | - | - | - | - |
|  | $\mathbf{4 1}$ | $\mathbf{4 6 6}$ | $\mathbf{5 , 6 8 8}$ | $\mathbf{2 , 3 8 3}$ | $\mathbf{3 , 4 8 1}$ | $\mathbf{1 4 , 3 5 1}$ | $\mathbf{2 4 , 8 6 1}$ | $\mathbf{5 7}$ | $\mathbf{3 , 6 3 8}$ | $\mathbf{3 , 0 1 2}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 5}$ | 0 | - | 110 | - | - | - | - | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 4 | 21 | 367 | 32 | 323 | 916 | 1,276 | 4 | 254 | 888 |
| $\mathbf{5 0 - 5 4}$ | 1 | 218 | 895 | 1,425 | 277 | 3,718 | 2,846 | 5 | 836 | 790 |
| $\mathbf{5 5 - 5 9}$ | 1 | 18 | 723 | 378 | 570 | 1,512 | 1,866 | 8 | 780 | 325 |
| $\mathbf{6 0 - 6 4}$ | 18 | 94 | 1,375 | 412 | 1,406 | 4,423 | 5,762 | 26 | 640 | 442 |
| $\mathbf{6 5 - 6 9}$ | 3 | 91 | 595 | 100 | 378 | 2,179 | 4,911 | 11 | 1,115 | 500 |
| $\mathbf{7 0 - 7 9}$ | 13 | 23 | 1,238 | 36 | 526 | 1,592 | 6,064 | 3 | 11 | 42 |
| $\mathbf{8 0 - 8 9}$ | - | - | 144 | - | - | 6 | 965 | 0 | 2 | 8 |
| $>\mathbf{8 9}$ | 0 | - | 240 | - | 0 | 4 | 1,172 | 0 | - | 18 |
|  | $\mathbf{4 1}$ | $\mathbf{4 6 6}$ | $\mathbf{5 , 6 8 8}$ | $\mathbf{2 , 3 8 3}$ | $\mathbf{3 , 4 8 1}$ | $\mathbf{1 4 , 3 5 1}$ | $\mathbf{2 4 , 8 6 1}$ | $\mathbf{5 7}$ | $\mathbf{3 , 6 3 8}$ | $\mathbf{3 , 0 1 2}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1 , 0 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | - | 1 | - | 6 | 225 | 557 | 331 | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 5 | 18 | 618 | 85 | 404 | 2,811 | 1,445 | 11 | 744 | 751 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 15 | 66 | 429 | 280 | 311 | 1,861 | 1,472 | 20 | 255 | 34 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 6 | 103 | 1,081 | 461 | 1,000 | 3,240 | 3,838 | 15 | 1,593 | 1,251 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 14 | 67 | 1,399 | 170 | 1,435 | 3,427 | 6,286 | 8 | 308 | 301 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 0 | 212 | 1,061 | 1,371 | 105 | 2,300 | 3,797 | 0 | 724 | 655 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 0 | - | 793 | 7 | 0 | 144 | 5,753 | 1 | 7 | 12 |
| $\mathbf{> 3 , 9 9 9}$ | - | - | 307 | 2 | - | 10 | 1,939 | 1 | 7 | 9 |
|  | $\mathbf{4 1}$ | $\mathbf{4 6 6}$ | $\mathbf{5 , 6 8 8}$ | $\mathbf{2 , 3 8 3}$ | $\mathbf{3 , 4 8 1}$ | $\mathbf{1 4 , 3 5 1}$ | $\mathbf{2 4 , 8 6 1}$ | $\mathbf{5 7}$ | $\mathbf{3 , 6 3 8}$ | $\mathbf{3 , 0 1 2}$ |

## Illex argentinus

First Season 2018 (01 Jan to 30 Jun)


## Illex argentinus-Illex squid

Length- frequency distribution and length-weight relationship in trawler fleet in 2018



## Illex argentinus-Illex squid

Length- frequency distribution and length-weight relationship in jigger fleet in 2018



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

| VESSEL TYPE | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 31,474 | 66,543 | 34,675 | 70,894 | 40,168 | 48,702 | 30,317 | 46,447 | 64,676 | 79,996 |
|  | $\mathbf{3 1 , 4 7 4}$ | $\mathbf{6 6 , 5 4 3}$ | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 4}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 2}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 6}$ | $\mathbf{7 9 , 9 9 6}$ |

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

| MONTH | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 0 | 0 | - | - | - | - | - | 0 | 5 | - |
| February | 2,013 | 4,455 | 1,308 | 3,885 | 1,293 | 2,167 | 2,048 | 1,222 | 2,224 | 1,407 |
| March | 8,573 | 16,963 | 10,276 | 21,154 | 12,983 | 13,832 | 14,630 | 8,713 | 20,244 | 23,412 |
| April | 2,403 | 7,733 | 3,826 | 9,917 | 5,724 | 12,318 | 3,007 | 12,832 | 16,322 | 16,852 |
| May | 17 | 5 | 20 | 18 | 35 | 47 | 115 | 55 | 1,081 | 1,715 |
| June | 8 | 3 | 11 | 22 | 9 | 15 | 4 | 17 | 24 | 15 |
| July | 8,228 | 11,013 | 7,075 | 6,362 | 5,006 | 4,800 | 1,176 | 1,879 | 2,509 | 3,745 |
| August | 8,102 | 16,654 | 8,186 | 17,595 | 7,740 | 9,643 | 8,056 | 12,746 | 12,432 | 22,910 |
| September | 2,030 | 9,622 | 3,856 | 11,781 | 7,223 | 5,778 | 1,204 | 7,763 | 9,016 | 9,273 |
| October | 82 | 80 | 99 | 145 | 132 | 92 | 55 | 1,217 | 817 | 657 |
| November | 19 | 16 | 18 | 15 | 21 | 11 | 20 | 2 | 2 | 7 |
| December | - | 0 | - | 1 | 1 | - | 3 | - | 0 | 2 |
|  | $\mathbf{3 1 , 4 7 4}$ | $\mathbf{6 6 , 5 4 3}$ | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 4}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 2}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 6}$ | $\mathbf{7 9 , 9 9 6}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 1,756 | 3,723 | 2,614 | 3,353 | 2,261 | 2,444 | 1,676 | 2,851 | 6,677 | 4,615 |
| FK | 27,180 | 58,016 | 30,580 | 62,668 | 35,243 | 42,927 | 26,478 | 40,823 | 54,039 | 70,680 |
| JP | 0 | 0 | - | - | - | - | - | - | - | - |
| KR | 2 | 34 | 54 | 87 | 34 | 39 | 2 | 7 | 12 | 1 |
| UK | 2,535 | 4,770 | 1,426 | 4,786 | 2,629 | 3,292 | 2,161 | 2,767 | 3,948 | 4,699 |
|  | $\mathbf{3 1 , 4 7 4}$ | $\mathbf{6 6 , 5 4 3}$ | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 4}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 2}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 6}$ | $\mathbf{7 9 , 9 9 6}$ |

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 179 | 76 | 45 | 97 | 58 | 30 | 13 | 48 | 62 | 22 |
| $\mathbf{8 0 0 - 9 9 9}$ | 1,747 | 3,030 | 1,892 | 3,405 | 2,157 | 2,371 | 1,598 | 2,509 | 2,666 | 65 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 5,299 | 10,769 | 5,967 | 11,164 | 6,988 | 7,908 | 5,056 | 7,935 | 10,897 | 16,263 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 9,974 | 20,173 | 9,554 | 21,284 | 11,990 | 14,603 | 9,377 | 13,775 | 21,467 | 25,104 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 14,275 | 32,494 | 17,212 | 34,932 | 18,969 | 23,784 | 14,272 | 22,180 | 29,584 | 38,542 |
| $\mathbf{> 2 , 9 9 9}$ | 0 | 0 | 4 | 13 | 7 | 5 | - | - | - | - |
|  | $\mathbf{3 1 , 4 7 4}$ | $\mathbf{6 6 , 5 4 3}$ | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 4}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 2}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 6}$ | $\mathbf{7 9 , 9 9 6}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 5}$ | 3 | 0 | 12 | - | 1 | 0 | 3 | 2 | - | 0 |
| $\mathbf{4 5 - 4 9}$ | 1,909 | 2,793 | 1,726 | 3,406 | 2,163 | 2,344 | 1,590 | 2,478 | 1,426 | 60 |
| $\mathbf{5 0 - 5 4}$ | 95 | 47 | 59 | 96 | 45 | 49 | 17 | 34 | 1,288 | 16 |
| $\mathbf{5 5 - 5 9}$ | 1,928 | 3,848 | 1,939 | 3,926 | 2,435 | 2,867 | 2,062 | 3,255 | 3,912 | 4,199 |
| $\mathbf{6 0 - 6 4}$ | 7,110 | 15,224 | 7,938 | 15,714 | 9,018 | 10,380 | 6,800 | 9,652 | 14,393 | 19,924 |
| $\mathbf{6 5 - 6 9}$ | 6,563 | 13,790 | 6,014 | 13,992 | 8,109 | 9,834 | 6,271 | 9,085 | 12,653 | 14,797 |
| $\mathbf{7 0 - 7 9}$ | 9,972 | 21,171 | 12,007 | 23,356 | 13,036 | 16,268 | 9,171 | 14,702 | 23,912 | 27,687 |
| $\mathbf{8 0 - 8 9}$ | 2,048 | 4,504 | 2,385 | 4,835 | 2,620 | 3,355 | 2,169 | 3,565 | 5,088 | 6,339 |
| $>\mathbf{8 9}$ | 1,848 | 5,165 | 2,594 | 5,568 | 2,740 | 3,604 | 2,234 | 3,676 | 2,004 | 6,973 |
|  | $\mathbf{3 1 , 4 7 4}$ | $\mathbf{6 6 , 5 4 3}$ | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 4}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 2}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 6}$ | $\mathbf{7 9 , 9 9 6}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1 , 0 0 0}$ | - | - | - | - | 1 | - | - | - | - | 3 |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 0 | 6 | - | 1 | 0 | 3 | 2 | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | - | - | - | 0 | 1 | - | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 380 | 349 | 180 | 101 | 71 | 46 | 28 | 114 | 1,348 | 43 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 29 | 35 | 29 | 770 | 324 | 56 | 10 | 274 | 12 | 23 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 3,222 | 6,141 | 3,520 | 6,324 | 4,283 | 4,538 | 3,192 | 4,903 | 4,959 | 3,699 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 8,620 | 17,504 | 9,415 | 18,202 | 10,654 | 12,969 | 8,183 | 12,560 | 19,521 | 22,060 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 1,850 | 5,196 | 2,637 | 5,635 | 2,764 | 3,635 | 2,236 | 3,687 | 2,017 | 6,975 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 12,915 | 27,595 | 13,668 | 29,341 | 16,250 | 20,127 | 12,031 | 17,705 | 26,440 | 34,618 |
| $\mathbf{> 3 , 9 9 9}$ | 4,458 | 9,722 | 5,218 | 10,520 | 5,818 | 7,331 | 4,633 | 7,203 | 10,379 | 12,574 |





Length- frequency distribution and length-weight relationship during First Season 2018



Length- frequency distribution and length-weight relationship during Second Season 2018



## Micromesistius australis - Southern Blue Whiting

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

| VESSEL TYPE | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 10,395 | 6,471 | 3,940 | 1,596 | 2,698 | 3,612 | 2,790 | 5,415 | 2,309 | 992 |
|  | $\mathbf{1 0 , 3 9 5}$ | $\mathbf{6 , 4 7 1}$ | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ |

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

| MONTH | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 129 | 1,439 | 199 | 36 | 162 | - | - | 1,189 | 157 | - |
| February | 139 | 32 | 233 | 39 | 375 | 123 | 184 | 1,420 | 283 | 59 |
| March | 339 | 107 | 26 | 219 | 205 | 137 | 28 | 1,002 | 176 | 64 |
| April | 126 | 414 | 220 | 95 | 116 | 127 | 5 | 816 | 14 | 21 |
| May | 51 | 76 | 27 | 7 | 84 | 0 | 4 | 83 | 1 | 12 |
| June | 6 | 9 | 10 | 3 | 8 | 15 | - | 1 | - | - |
| July | 3 | 2 | 7 | 9 | 47 | 14 | 1 | 2 | 3 | 1 |
| August | 608 | 296 | 543 | 727 | 897 | 55 | 97 | 580 | 616 | 704 |
| September | 2,519 | 248 | 496 | 138 | 758 | 1,670 | 121 | 116 | 515 | 52 |
| October | 1,947 | 537 | 5 | 211 | 14 | 212 | 147 | 40 | 482 | 2 |
| November | 1,877 | 2,171 | 1,369 | 31 | 1 | 1,211 | 1,687 | 52 | 60 | 2 |
| December | 2,651 | 1,141 | 805 | 81 | 32 | 47 | 517 | 114 | 2 | 76 |
|  | $\mathbf{1 0 , 3 9 5}$ | $\mathbf{6 , 4 7 1}$ | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | - | - | 1,155 | - | - | - | - |
| ES | 2,450 | 1,010 | 818 | 1,157 | 834 | 578 | 2,488 | 4,578 | 1,796 | 924 |
| FK | 1,670 | 375 | 764 | 412 | 1,669 | 1,795 | 273 | 800 | 509 | 67 |
| JP | 6,173 | 5,062 | 2,282 | 24 | - | - | - | - | - | - |
| KR | 1 | 24 | 31 | 3 | 32 | 2 | 0 | 8 | - | - |
| UK | 100 | 1 | 45 | 1 | 163 | 82 | 29 | 29 | 4 | 0 |
|  | $\mathbf{1 0 , 3 9 5}$ | $\mathbf{6 , 4 7 1}$ | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ |

## Micromesistius australis - Southern Blue Whiting

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 250 | 347 | 65 | 165 | 127 | 29 | 28 | 499 | 65 | 2 |
| $\mathbf{8 0 0 - 9 9 9}$ | 252 | 241 | 115 | 142 | 299 | 171 | 569 | 1,118 | 195 | 52 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 1,273 | 269 | 229 | 225 | 657 | 810 | 1,449 | 1,845 | 857 | 204 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 2,334 | 521 | 1,024 | 882 | 910 | 455 | 597 | 1,812 | 956 | 724 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 113 | 31 | 226 | 158 | 705 | 991 | 148 | 141 | 237 | 9 |
| $\mathbf{> 2 , 9 9 9}$ | 6,173 | 5,062 | 2,282 | 24 | - | 1,155 | - | - | - | - |
|  | $\mathbf{1 0 , 3 9 5}$ | $\mathbf{6 , 4 7 1}$ | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 4 5}$ | 17 | 15 | 1 | - | - | - | 132 | 26 | - | - |
| $\mathbf{4 5 - 4 9}$ | 362 | 312 | 63 | 136 | 164 | 106 | 84 | 388 | 66 | 2 |
| $\mathbf{5 0 - 5 4}$ | 481 | 83 | 76 | 85 | 125 | 60 | 194 | 890 | 74 | 47 |
| $\mathbf{5 5 - 5 9}$ | 194 | 233 | 97 | 130 | 347 | 48 | 193 | 411 | 160 | 32 |
| $\mathbf{6 0 - 6 4}$ | 749 | 114 | 280 | 178 | 619 | 809 | 846 | 1,529 | 830 | 178 |
| $\mathbf{6 5 - 6 9}$ | 1,572 | 556 | 661 | 874 | 588 | 264 | 698 | 1,392 | 974 | 722 |
| $\mathbf{7 0 - 7 9}$ | 846 | 73 | 289 | 130 | 458 | 723 | 566 | 754 | 133 | 7 |
| $\mathbf{8 0 - 8 9}$ | 0 | 1 | 91 | 27 | 133 | 221 | 23 | 18 | 40 | 3 |
| $>\mathbf{8 9}$ | 6,173 | 5,084 | 2,384 | 35 | 265 | 1,381 | 56 | 7 | 32 | - |
|  | $\mathbf{1 0 , 3 9 5}$ | $\mathbf{6 , 4 7 1}$ | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ |

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

| BHP | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 , 0 0 0}$ | - | - | - | - | - | - | - | - | - | 1 |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 15 | - | - | - | - | 132 | 26 | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 5 | 51 | - | 14 | 4 | 1 | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 897 | 451 | 158 | 249 | 260 | 92 | 403 | 1,540 | 217 | 53 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 92 | 79 | 9 | 72 | 70 | 70 | 428 | 1,316 | 428 | 124 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 1,618 | 646 | 674 | 956 | 709 | 477 | 765 | 1,323 | 974 | 742 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 1,386 | 113 | 496 | 89 | 651 | 727 | 875 | 913 | 402 | 42 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 1 | 44 | 133 | 33 | 350 | 240 | 61 | 35 | 73 | - |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 213 | 9 | 78 | 120 | 470 | 626 | 98 | 145 | 168 | 25 |
| $\mathbf{> 3 , 9 9 9}$ | 6,183 | 5,064 | 2,392 | 64 | 183 | 1,377 | 29 | 117 | 47 | 3 |
|  | $\mathbf{1 0 , 3 9 5}$ | $\mathbf{6 , 4 7 1}$ | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ |




## Micromesistius australis - Southern Blue Whiting

Length- frequency distribution and length-weight relationship in 2018



## Macruronus magellanicus-Hoki

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

| VESSEL TYPE | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 23,404 | 19,227 | 22,979 | 15,867 | 16,849 | 7,392 | 6,845 | 11,562 | 4,053 | 4,438 |
|  | $\mathbf{2 3 , 4 0 4}$ | $\mathbf{1 9 , 2 2 7}$ | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 8}$ |

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

| MONTH | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 395 | 179 | 635 | 230 | 2,010 | - | - | 211 | 22 | - |
| February | 2,552 | 1,834 | 1,289 | 535 | 2,196 | 754 | 484 | 4,655 | 146 | 639 |
| March | 4,653 | 1,893 | 1,264 | 2,414 | 1,745 | 1,521 | 3,836 | 2,277 | 530 | 901 |
| April | 3,377 | 2,772 | 5,769 | 2,508 | 3,043 | 2,811 | 1,610 | 2,596 | 770 | 503 |
| May | 2,278 | 1,270 | 2,609 | 652 | 3,414 | 774 | 256 | 1,082 | 733 | 1,162 |
| June | 646 | 205 | 1,143 | 311 | 553 | 350 | 36 | 99 | 19 | 4 |
| July | 1,069 | 351 | 2,775 | 839 | 233 | 56 | 5 | 25 | 273 | 29 |
| August | 933 | 2,374 | 2,387 | 1,739 | 761 | 82 | 64 | 90 | 316 | 2 |
| September | 2,258 | 2,127 | 978 | 557 | 1,239 | 800 | 181 | 6 | 47 | 28 |
| October | 1,446 | 856 | 357 | 3,617 | 362 | 9 | 35 | 45 | 878 | 127 |
| November | 2,911 | 4,125 | 1,082 | 2,183 | 1,091 | 229 | 239 | 290 | 311 | 217 |
| December | 885 | 1,239 | 2,690 | 283 | 203 | 6 | 101 | 185 | 9 | 826 |
|  | $\mathbf{2 3 , 4 0 4}$ | $\mathbf{1 9 , 2 2 7}$ | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 8}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | - | - | 207 | - | - | - | - |
| ES | 15,177 | 13,511 | 15,867 | 11,628 | 11,569 | 5,275 | 5,705 | 8,886 | 3,548 | 3,879 |
| FK | 5,994 | 4,033 | 3,808 | 3,433 | 4,755 | 1,889 | 959 | 2,378 | 467 | 555 |
| JP | 1,267 | 917 | 2,457 | 85 | - | - | - | - | - | - |
| KR | 792 | 667 | 594 | 712 | 481 | 20 | 147 | 211 | 19 | 3 |
| UK | 174 | 98 | 253 | 10 | 45 | 1 | 35 | 87 | 18 | 0 |
|  | $\mathbf{2 3 , 4 0 4}$ | $\mathbf{1 9 , 2 2 7}$ | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 8}$ |

## Macruronus magellanicus-Hoki

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 3,528 | 2,795 | 2,714 | 2,568 | 1,478 | 497 | 1,051 | 1,155 | 323 | 307 |
| $\mathbf{8 0 0 - 9 9 9}$ | 4,306 | 2,933 | 3,119 | 3,532 | 3,238 | 1,634 | 1,845 | 3,569 | 615 | 767 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 9,742 | 8,034 | 8,562 | 6,957 | 8,740 | 3,477 | 3,055 | 2,992 | 2,371 | 2,163 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 4,223 | 4,310 | 5,894 | 2,529 | 3,177 | 1,566 | 858 | 3,813 | 644 | 1,201 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 339 | 237 | 221 | 100 | 214 | 8 | 38 | 31 | 100 | 0 |
| $\mathbf{> 2 , 9 9 9}$ | 1,267 | 917 | 2,469 | 181 | 2 | 210 | - | 1 | - | - |
|  | $\mathbf{2 3 , 4 0 4}$ | $\mathbf{1 9 , 2 2 7}$ | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 8}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 5}$ | 737 | 155 | 217 | - | - | - | 10 | 167 | - | - |
| $\mathbf{4 5 - 4 9}$ | 3,768 | 2,309 | 1,732 | 2,036 | 1,358 | 335 | 839 | 1,061 | 302 | 302 |
| $\mathbf{5 0 - 5 4}$ | 2,016 | 1,923 | 2,215 | 2,894 | 2,014 | 1,309 | 978 | 2,574 | 165 | 304 |
| $\mathbf{5 5 - 5 9}$ | 3,251 | 2,879 | 3,404 | 3,017 | 3,433 | 800 | 1,652 | 1,225 | 710 | 681 |
| $\mathbf{6 0 - 6 4}$ | 6,024 | 4,191 | 5,704 | 4,001 | 5,196 | 1,856 | 1,456 | 2,512 | 1,633 | 2,024 |
| $\mathbf{6 5 - 6 9}$ | 2,896 | 3,276 | 4,082 | 1,782 | 2,592 | 2,081 | 622 | 2,340 | 1,025 | 934 |
| $\mathbf{7 0 - 7 9}$ | 3,326 | 3,462 | 3,066 | 1,933 | 2,198 | 800 | 1,280 | 1,681 | 195 | 192 |
| $\mathbf{8 0 - 8 9}$ | 85 | 27 | 27 | 21 | 31 | 1 | 1 | 0 | 1 | 0 |
| $>\mathbf{8 9}$ | 1,301 | 1,004 | 2,532 | 183 | 26 | 210 | 6 | 1 | 22 | - |
|  | $\mathbf{2 3 , 4 0 4}$ | $\mathbf{1 9 , 2 2 7}$ | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 8}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 , 0 0 0}$ | - | - | - | - | - | - | - | - | - | 46 |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 155 | 54 | - | - | - | 10 | 167 | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 453 | 442 | 310 | 327 | 276 | 67 | 119 | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 6,722 | 3,441 | 3,264 | 4,216 | 3,263 | 1,704 | 2,006 | 3,859 | 907 | 973 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 1,882 | 2,997 | 2,253 | 1,089 | 1,611 | 688 | 912 | 1,490 | 1,448 | 1,251 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 4,854 | 5,385 | 6,899 | 4,248 | 5,661 | 2,114 | 1,205 | 2,389 | 1,314 | 1,497 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 6,955 | 4,982 | 6,352 | 4,101 | 4,837 | 2,257 | 1,797 | 2,476 | 231 | 571 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 790 | 637 | 937 | 1,594 | 964 | 345 | 729 | 464 | 53 | 45 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 393 | 221 | 397 | 182 | 205 | 10 | 65 | 120 | 95 | 52 |
| $\mathbf{> 3 , 9 9 9}$ | 1,353 | 965 | 2,513 | 109 | 31 | 208 | 1 | 597 | 5 | 2 |
|  | $\mathbf{2 3 , 4 0 4}$ | $\mathbf{1 9 , 2 2 7}$ | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 8}$ |




## Macruronus magellanicus-Hoki

Length- frequency distribution and length-weight relationship in 2018



## Salilota australis - Red cod

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

| VESSEL TYPE | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | - | - | 0 | - | 0 | - | - | - | - | - |
| TR | 5,120 | 3,129 | 4,210 | 4,629 | 5,164 | 3,467 | 3,340 | 3,143 | 1,379 | 1,654 |
|  | $\mathbf{5 , 1 2 0}$ | $\mathbf{3 , 1 2 9}$ | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 4}$ |

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

| MONTH | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 148 | 29 | 100 | 62 | 215 | - | 0 | 143 | 33 | - |
| February | 328 | 193 | 236 | 351 | 480 | 114 | 63 | 479 | 24 | 47 |
| March | 530 | 387 | 157 | 341 | 311 | 221 | 557 | 181 | 101 | 64 |
| April | 480 | 649 | 438 | 340 | 325 | 477 | 685 | 270 | 245 | 154 |
| May | 603 | 215 | 749 | 370 | 514 | 768 | 310 | 527 | 138 | 451 |
| June | 159 | 69 | 213 | 125 | 77 | 398 | 131 | 198 | 38 | 102 |
| July | 214 | 75 | 309 | 150 | 162 | 135 | 174 | 138 | 134 | 200 |
| August | 669 | 361 | 605 | 656 | 1,199 | 376 | 161 | 369 | 223 | 134 |
| September | 662 | 340 | 474 | 580 | 1,299 | 195 | 329 | 135 | 248 | 108 |
| October | 819 | 284 | 273 | 615 | 283 | 532 | 631 | 562 | 144 | 163 |
| November | 378 | 321 | 436 | 626 | 230 | 189 | 200 | 74 | 40 | 129 |
| December | 131 | 207 | 221 | 411 | 68 | 63 | 99 | 66 | 12 | 103 |
|  | $\mathbf{5 , 1 2 0}$ | $\mathbf{3 , 1 2 9}$ | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 4}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 3,778 | 2,267 | 2,851 | 3,441 | 3,592 | 2,530 | 2,776 | 2,237 | 1,027 | 1,071 |
| FK | 1,308 | 801 | 1,317 | 1,167 | 1,522 | 874 | 505 | 878 | 319 | 565 |
| JP | 0 | 0 | 0 | - | - | - | - | - | - | - |
| KR | 11 | 19 | 6 | 16 | 33 | 57 | 47 | 18 | 14 | 17 |
| UK | 23 | 41 | 36 | 5 | 17 | 5 | 12 | 10 | 18 | 0 |
|  | $\mathbf{5 , 1 2 0}$ | $\mathbf{3 , 1 2 9}$ | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 4}$ |

## Salilota australis - Red cod

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 598 | 327 | 484 | 633 | 467 | 508 | 401 | 480 | 143 | 360 |
| $\mathbf{8 0 0 - 9 9 9}$ | 610 | 403 | 444 | 618 | 610 | 600 | 648 | 783 | 275 | 336 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 2,034 | 1,323 | 1,889 | 2,004 | 2,584 | 1,399 | 1,387 | 793 | 409 | 516 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 1,747 | 1,012 | 1,268 | 1,285 | 1,256 | 881 | 869 | 1,053 | 469 | 424 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 131 | 64 | 124 | 89 | 248 | 77 | 34 | 34 | 83 | 17 |
| $\mathbf{> 2 , 9 9 9}$ | 0 | 0 | 0 | - | - | 2 | - | 0 | - | - |
|  | $\mathbf{5 , 1 2 0}$ | $\mathbf{3 , 1 2 9}$ | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 4}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 5}$ | 145 | 17 | 78 | - | 9 | 3 | 8 | 56 | - | 2 |
| $\mathbf{4 5 - 4 9}$ | 555 | 291 | 339 | 578 | 403 | 453 | 340 | 495 | 129 | 397 |
| $\mathbf{5 0 - 5 4}$ | 246 | 220 | 353 | 488 | 475 | 478 | 400 | 470 | 155 | 229 |
| $\mathbf{5 5 - 5 9}$ | 751 | 630 | 886 | 837 | 706 | 334 | 501 | 340 | 219 | 183 |
| $\mathbf{6 0 - 6 4}$ | 1,275 | 586 | 966 | 1,058 | 1,772 | 929 | 786 | 587 | 243 | 418 |
| $\mathbf{6 5 - 6 9}$ | 1,434 | 1,057 | 1,178 | 1,268 | 1,048 | 769 | 818 | 637 | 349 | 227 |
| $\mathbf{7 0 - 7 9}$ | 648 | 304 | 350 | 329 | 628 | 476 | 480 | 558 | 265 | 192 |
| $\mathbf{8 0 - 8 9}$ | 12 | 4 | 4 | 2 | 20 | 16 | 3 | 0 | 4 | 5 |
| $>\mathbf{8 9}$ | 53 | 19 | 55 | 68 | 103 | 9 | 5 | 2 | 15 | - |
|  | $\mathbf{5 , 1 2 0}$ | $\mathbf{3 , 1 2 9}$ | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 4}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\langle\mathbf{1 , 0 0 0}$ | - | - | - | - | 5 | - | - | - | - | 72 |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 17 | 22 | - | 9 | 3 | 8 | 56 | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 83 | 58 | 89 | 100 | 77 | 54 | 43 | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 851 | 448 | 749 | 934 | 744 | 800 | 779 | 1,003 | 319 | 480 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 529 | 451 | 419 | 358 | 359 | 279 | 313 | 281 | 103 | 148 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 1,827 | 1,346 | 1,710 | 2,082 | 1,800 | 1,017 | 1,142 | 745 | 420 | 469 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 1,657 | 676 | 1,011 | 825 | 1,696 | 1,021 | 853 | 826 | 333 | 328 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 63 | 33 | 102 | 303 | 303 | 215 | 156 | 106 | 102 | 101 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 88 | 82 | 101 | 23 | 142 | 61 | 38 | 42 | 82 | 52 |
| $\mathbf{> 3 , 9 9 9}$ | 20 | 17 | 7 | 4 | 29 | 17 | 6 | 84 | 19 | 5 |
|  | $\mathbf{5 , 1 2 0}$ | $\mathbf{3 , 1 2 9}$ | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 4}$ |




Length- frequency distribution and length-weight relationship in 2018



## Merluccius spp - Hakes

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

| VESSEL TYPE | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | - | - | - | - | 0 | - | - | - | - | - |
| TR | 13,049 | 13,606 | 9,904 | 10,489 | 12,308 | 14,875 | 21,068 | 23,894 | 15,759 | 27,091 |
|  | $\mathbf{1 3 , 0 4 9}$ | $\mathbf{1 3 , 6 0 6}$ | $\mathbf{9 , 9 0 4}$ | $\mathbf{1 0 , 4 8 9}$ | $\mathbf{1 2 , 3 0 8}$ | $\mathbf{1 4 , 8 7 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 1}$ |

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

| MONTH | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 38 | 3 | 12 | 4 | 56 | - | 1 | 62 | 10 | - |
| February | 152 | 106 | 199 | 65 | 166 | 30 | 29 | 231 | 11 | 12 |
| March | 474 | 873 | 260 | 517 | 232 | 224 | 382 | 155 | 237 | 144 |
| April | 2,059 | 2,492 | 2,005 | 1,388 | 1,169 | 680 | 1,266 | 821 | 2,236 | 1,130 |
| May | 2,667 | 2,584 | 1,947 | 1,895 | 1,615 | 3,168 | 3,277 | 5,847 | 2,589 | 5,183 |
| June | 1,044 | 773 | 726 | 1,125 | 1,129 | 2,506 | 1,912 | 3,500 | 1,696 | 4,130 |
| July | 1,238 | 1,340 | 858 | 946 | 1,225 | 2,065 | 3,508 | 3,461 | 2,875 | 5,239 |
| August | 1,413 | 2,245 | 1,145 | 2,473 | 2,460 | 2,717 | 3,619 | 3,453 | 1,821 | 3,830 |
| September | 2,340 | 2,145 | 1,598 | 1,260 | 2,638 | 2,431 | 5,153 | 3,273 | 3,414 | 4,124 |
| October | 1,488 | 853 | 930 | 644 | 1,480 | 862 | 1,823 | 3,054 | 840 | 3,177 |
| November | 131 | 168 | 201 | 151 | 135 | 189 | 62 | 27 | 23 | 107 |
| December | 5 | 23 | 22 | 21 | 4 | 3 | 36 | 10 | 5 | 15 |
|  | $\mathbf{1 3 , 0 4 9}$ | $\mathbf{1 3 , 6 0 6}$ | $\mathbf{9 , 9 0 4}$ | $\mathbf{1 0 , 4 8 9}$ | $\mathbf{1 2 , 3 0 8}$ | $\mathbf{1 4 , 8 7 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 1}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | - | - | 0 | - | - | - | - |
| ES | 8,036 | 8,459 | 5,987 | 6,950 | 7,245 | 10,465 | 15,429 | 18,858 | 11,019 | 19,432 |
| FK | 4,696 | 4,565 | 3,506 | 3,185 | 4,884 | 4,196 | 5,072 | 4,739 | 4,443 | 7,337 |
| JP | - | 0 | 1 | - | - | - | - | - | - | - |
| KR | 90 | 181 | 221 | 283 | 130 | 159 | 351 | 191 | 199 | 210 |
| UK | 228 | 401 | 190 | 71 | 50 | 56 | 215 | 106 | 98 | 112 |
|  | $\mathbf{1 3 , 0 4 9}$ | $\mathbf{1 3 , 6 0 6}$ | $\mathbf{9 , 9 0 4}$ | $\mathbf{1 0 , 4 8 9}$ | $\mathbf{1 2 , 3 0 8}$ | $\mathbf{1 4 , 8 7 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 1}$ |

## Merluccius spp - Hakes

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 1,211 | 1,439 | 1,138 | 1,178 | 1,251 | 1,815 | 2,201 | 2,171 | 2,336 | 3,085 |
| $\mathbf{8 0 0 - 9 9 9}$ | 1,762 | 1,167 | 872 | 762 | 1,715 | 2,055 | 3,843 | 4,452 | 2,699 | 8,380 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 6,728 | 7,908 | 5,875 | 6,943 | 7,140 | 7,927 | 10,035 | 12,016 | 5,998 | 10,614 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 2,842 | 2,839 | 1,904 | 1,483 | 2,125 | 3,030 | 4,115 | 5,034 | 4,516 | 4,920 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 505 | 253 | 90 | 42 | 70 | 41 | 874 | 213 | 210 | 92 |
| $\mathbf{> 2 , 9 9 9}$ | - | 0 | 25 | 81 | 7 | 7 | - | 9 | - | - |
|  | $\mathbf{1 3 , 0 4 9}$ | $\mathbf{1 3 , 6 0 6}$ | $\mathbf{9 , 9 0 4}$ | $\mathbf{1 0 , 4 8 9}$ | $\mathbf{1 2 , 3 0 8}$ | $\mathbf{1 4 , 8 7 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 1}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 5}$ | 270 | 5 | 165 | - | 6 | 15 | 42 | 51 | - | 109 |
| $\mathbf{4 5 - 4 9}$ | 2,232 | 1,544 | 1,171 | 1,102 | 1,579 | 1,826 | 2,804 | 3,012 | 2,948 | 4,828 |
| $\mathbf{5 0 - 5 4}$ | 334 | 673 | 552 | 941 | 1,045 | 1,512 | 2,712 | 3,028 | 1,550 | 5,222 |
| $\mathbf{5 5 - 5 9}$ | 2,281 | 2,629 | 2,107 | 2,395 | 3,082 | 1,952 | 2,492 | 3,123 | 2,170 | 5,118 |
| $\mathbf{6 0 - 6 4}$ | 3,873 | 3,767 | 2,983 | 3,274 | 3,735 | 5,534 | 6,584 | 8,060 | 3,117 | 6,567 |
| $\mathbf{6 5 - 6 9}$ | 1,631 | 2,600 | 1,642 | 1,547 | 1,226 | 1,976 | 3,072 | 3,721 | 2,888 | 2,675 |
| $\mathbf{7 0 - 7 9}$ | 2,388 | 2,386 | 1,248 | 1,108 | 1,625 | 2,053 | 3,358 | 2,880 | 2,904 | 2,525 |
| $\mathbf{8 0 - 8 9}$ | 20 | 2 | 6 | 39 | 1 | 0 | 2 | 2 | 8 | 37 |
| $>\mathbf{8 9}$ | 20 | 0 | 31 | 83 | 9 | 7 | 2 | 16 | 174 | 10 |
|  | $\mathbf{1 3 , 0 4 9}$ | $\mathbf{1 3 , 6 0 6}$ | $\mathbf{9 , 9 0 4}$ | $\mathbf{1 0 , 4 8 9}$ | $\mathbf{1 2 , 3 0 8}$ | $\mathbf{1 4 , 8 7 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 1}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 , 0 0 0}$ | - | - | - | - | - | - | - | - | - | 204 |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 5 | 54 | - | 6 | 15 | 42 | 51 | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 173 | 326 | 128 | 307 | 405 | 338 | 454 | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 1,684 | 1,302 | 1,165 | 1,340 | 1,690 | 2,735 | 3,752 | 4,484 | 3,537 | 7,315 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 2,104 | 2,773 | 1,671 | 1,526 | 1,789 | 2,339 | 2,503 | 3,864 | 1,067 | 2,973 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 4,528 | 5,209 | 4,059 | 5,084 | 5,180 | 5,414 | 6,883 | 9,084 | 6,230 | 8,393 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 3,745 | 3,163 | 2,328 | 1,626 | 2,703 | 3,400 | 5,453 | 4,891 | 3,881 | 5,781 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 101 | 170 | 196 | 414 | 412 | 532 | 894 | 1,105 | 905 | 2,091 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 693 | 651 | 292 | 154 | 124 | 103 | 1,086 | 318 | 126 | 287 |
| $\mathbf{> 3 , 9 9 9}$ | 21 | 5 | 11 | 39 | 1 | 0 | 2 | 96 | 13 | 48 |
|  | $\mathbf{1 3 , 0 4 9}$ | $\mathbf{1 3 , 6 0 6}$ | $\mathbf{9 , 9 0 4}$ | $\mathbf{1 0 , 4 8 9}$ | $\mathbf{1 2 , 3 0 8}$ | $\mathbf{1 4 , 8 7 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 1}$ |




## Merluccius spp - Hakes

Length- frequency distribution and length-weight relationship in M.hubbsi in 2018



## Genypterus blacodes - Kingclip

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

| VESSEL TYPE | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{T R}$ | 3,390 | 3,639 | 3,867 | 3,510 | 3,977 | 2,881 | 2,983 | 1,612 | 1,632 | 1,445 |
|  | $\mathbf{3 , 3 9 0}$ | $\mathbf{3 , 6 3 9}$ | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 5}$ |

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

| MONTH | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 70 | 15 | 163 | 12 | 108 | - | 1 | 62 | 12 | - |
| February | 138 | 110 | 296 | 138 | 188 | 65 | 50 | 175 | 7 | 22 |
| March | 209 | 300 | 214 | 277 | 153 | 141 | 200 | 52 | 67 | 41 |
| April | 320 | 580 | 429 | 338 | 281 | 189 | 250 | 134 | 110 | 110 |
| May | 437 | 416 | 728 | 389 | 358 | 372 | 314 | 205 | 107 | 276 |
| June | 179 | 202 | 141 | 134 | 114 | 324 | 288 | 78 | 42 | 115 |
| July | 258 | 89 | 226 | 170 | 140 | 296 | 159 | 154 | 168 | 222 |
| August | 481 | 366 | 421 | 570 | 835 | 387 | 226 | 234 | 251 | 156 |
| September | 428 | 446 | 462 | 390 | 843 | 357 | 491 | 142 | 410 | 134 |
| October | 548 | 377 | 309 | 420 | 653 | 491 | 503 | 337 | 310 | 209 |
| November | 195 | 445 | 310 | 432 | 234 | 203 | 265 | 23 | 142 | 106 |
| December | 126 | 294 | 167 | 240 | 67 | 57 | 237 | 15 | 8 | 54 |
|  | $\mathbf{3 , 3 9 0}$ | $\mathbf{3 , 6 3 9}$ | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 5}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 2,619 | 2,835 | 2,933 | 2,583 | 3,053 | 2,219 | 2,370 | 1,280 | 1,386 | 1,072 |
| FK | 726 | 677 | 851 | 858 | 843 | 548 | 502 | 312 | 225 | 351 |
| JP | 1 | 0 | 0 | - | - | - | - | - | - | - |
| KR | 33 | 101 | 47 | 62 | 72 | 107 | 90 | 19 | 10 | 18 |
| UK | 11 | 26 | 35 | 7 | 9 | 7 | 22 | 1 | 11 | 4 |
|  | $\mathbf{3 , 3 9 0}$ | $\mathbf{3 , 6 3 9}$ | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 5}$ |

## Genypterus blacodes - Kingclip

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 675 | 460 | 481 | 518 | 410 | 291 | 338 | 141 | 146 | 186 |
| $\mathbf{8 0 0 - 9 9 9}$ | 431 | 467 | 404 | 456 | 904 | 710 | 612 | 434 | 204 | 347 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 1,451 | 1,664 | 2,000 | 1,905 | 1,888 | 1,181 | 1,350 | 543 | 710 | 541 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 814 | 1,034 | 972 | 625 | 760 | 683 | 648 | 465 | 552 | 369 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 18 | 15 | 11 | 5 | 14 | 13 | 36 | 30 | 20 | 2 |
| $\mathbf{> 2 , 9 9 9}$ | 1 | 0 | 0 | 1 | 0 | 2 | - | 0 | - | - |
|  | $\mathbf{3 , 3 9 0}$ | $\mathbf{3 , 6 3 9}$ | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 5}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 4 5}$ | 209 | 12 | 101 | - | 11 | 13 | 24 | 41 | - | 6 |
| $\mathbf{4 5 - 4 9}$ | 504 | 364 | 314 | 394 | 329 | 170 | 342 | 142 | 156 | 252 |
| $\mathbf{5 0 - 5 4}$ | 330 | 364 | 367 | 514 | 610 | 620 | 407 | 274 | 105 | 192 |
| $\mathbf{5 5 - 5 9}$ | 420 | 578 | 830 | 856 | 874 | 404 | 374 | 221 | 191 | 258 |
| $\mathbf{6 0 - 6 4}$ | 927 | 867 | 1,012 | 960 | 1,218 | 682 | 847 | 370 | 168 | 341 |
| $\mathbf{6 5 - 6 9}$ | 655 | 1,069 | 883 | 544 | 578 | 710 | 674 | 300 | 600 | 246 |
| $\mathbf{7 0 - 7 9}$ | 343 | 385 | 360 | 237 | 354 | 278 | 315 | 265 | 400 | 148 |
| $\mathbf{8 0 - 8 9}$ | 1 | - | 0 | 0 | 0 | 2 | - | - | 0 | 1 |
| $\mathbf{8 8 9}$ | 1 | 1 | 1 | 4 | 3 | 2 | - | 0 | 12 | - |
|  | $\mathbf{3 , 3 9 0}$ | $\mathbf{3 , 6 3 9}$ | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 5}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 , 0 0 0}$ | - | - | - | - | 18 | - | - | - | - | 43 |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 12 | 29 | - | 11 | 13 | 24 | 41 | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 127 | 113 | 77 | 107 | 86 | 45 | 34 | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 914 | 513 | 643 | 799 | 821 | 609 | 631 | 384 | 261 | 312 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 338 | 608 | 474 | 289 | 288 | 217 | 245 | 172 | 66 | 130 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 1,036 | 1,552 | 1,597 | 1,345 | 1,353 | 972 | 1,085 | 448 | 757 | 552 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 912 | 726 | 928 | 776 | 1,081 | 691 | 717 | 393 | 451 | 282 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 32 | 73 | 74 | 183 | 298 | 312 | 190 | 119 | 78 | 104 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 28 | 41 | 45 | 10 | 20 | 21 | 58 | 31 | 19 | 20 |
| $\mathbf{> 3 , 9 9 9}$ | 2 | 0 | 0 | 1 | 0 | 2 | - | 25 | 2 | 1 |
|  | $\mathbf{3 , 3 9 0}$ | $\mathbf{3 , 6 3 9}$ | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 5}$ |




## Genypterus blacodes - Kingclip

Length- frequency distribution and length-weight relationship in 2018



## Dissostichus eleginoides - Toothfish

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

| VESSEL TYPE | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | 1,134 | 944 | 1,221 | 1,085 | 1,301 | 1,252 | 1,123 | 1,023 | 1,030 | 982 |
| PO | - | 0 | - | - | - | - | - | - | - | - |
| TR | 285 | 460 | 339 | 226 | 120 | 45 | 103 | 476 | 489 | 277 |
|  | $\mathbf{1 , 4 1 8}$ | $\mathbf{1 , 4 0 4}$ | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ |

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

| MONTH | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 123 | 129 | 131 | 136 | 140 | 125 | 161 | 172 | 24 | 116 |
| February | 163 | 141 | 138 | 159 | 91 | 109 | 111 | 146 | 9 | 40 |
| March | 210 | 207 | 84 | 122 | 133 | 73 | 142 | 218 | 23 | 163 |
| April | 84 | 169 | 182 | 159 | 193 | 121 | 118 | 157 | 37 | 161 |
| May | 116 | 167 | 161 | 131 | 153 | 36 | 71 | 156 | 174 | 56 |
| June | 98 | 62 | 82 | 91 | 22 | 72 | 49 | 105 | 72 | 7 |
| July | 91 | 136 | 180 | 133 | 128 | 130 | 134 | 160 | 168 | 30 |
| August | 129 | 100 | 216 | 162 | 196 | 37 | 130 | 217 | 39 | 27 |
| September | 184 | 106 | 165 | 101 | 207 | 234 | 34 | 30 | 115 | 148 |
| October | 80 | 23 | 55 | 19 | 2 | 115 | 19 | 46 | 241 | 200 |
| November | 26 | 52 | 30 | 23 | 8 | 107 | 18 | 36 | 384 | 157 |
| December | 115 | 113 | 136 | 76 | 146 | 139 | 239 | 55 | 233 | 154 |
|  | $\mathbf{1 , 4 1 8}$ | $\mathbf{1 , 4 0 4}$ | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | - | - | 353 | - | - | 249 | - |
| ES | 203 | 366 | 260 | 155 | 81 | 34 | 87 | 367 | 396 | 206 |
| FK | 1,210 | 1,030 | 1,287 | 1,150 | 1,339 | 911 | 1,134 | 1,122 | 833 | 1,045 |
| KR | - | 6 | 7 | 7 | 1 | 0 | 5 | 10 | 40 | 6 |
| RU | - | 0 | - | - | - | - | - | - | - | - |
| UK | 5 | 2 | 6 | 0 | - | - | 0 | - | 1 | 1 |
|  | $\mathbf{1 , 4 1 8}$ | $\mathbf{1 , 4 0 4}$ | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ |

## Dissostichus eleginoides - Toothfish

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 33 | 45 | 31 | 44 | 10 | 7 | 5 | 35 | 19 | 34 |
| $\mathbf{8 0 0 - 9 9 9}$ | 1,166 | 983 | 1,263 | 1,118 | 1,197 | 906 | 1,141 | 1,198 | 98 | 61 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 106 | 234 | 84 | 66 | 166 | 370 | 51 | 77 | 482 | 93 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 88 | 135 | 176 | 82 | 44 | 15 | 29 | 173 | 909 | 1,067 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 25 | 6 | 6 | 2 | 3 | - | 1 | 16 | 10 | 4 |
| $\mathbf{> 2 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
|  | $\mathbf{1 , 4 1 8}$ | $\mathbf{1 , 4 0 4}$ | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 5}$ | 3 | 2 | 7 | - | - | - | 5 | 21 | - | - |
| $\mathbf{4 5 - 4 9}$ | 31 | 34 | 21 | 41 | 10 | 4 | 4 | 26 | 17 | 37 |
| $\mathbf{5 0 - 5 4}$ | 1,146 | 976 | 1,243 | 1,109 | 1,187 | 905 | 1,135 | 1,146 | 70 | 42 |
| $\mathbf{5 5 - 5 9}$ | 28 | 46 | 35 | 33 | 136 | 4 | 5 | 47 | 822 | 1,005 |
| $\mathbf{6 0 - 6 4}$ | 36 | 62 | 87 | 24 | 35 | 365 | 38 | 45 | 442 | 88 |
| $\mathbf{6 5 - 6 9}$ | 74 | 179 | 114 | 66 | 28 | 15 | 24 | 137 | 139 | 63 |
| $\mathbf{7 0 - 7 9}$ | 90 | 105 | 53 | 36 | 24 | 5 | 16 | 73 | 25 | 22 |
| $\mathbf{8 0 - 8 9}$ | 6 | - | - | 1 | - | - | - | 0 | 2 | 0 |
| $\mathbf{8 8 9}$ | 5 | 0 | - | 1 | 0 | - | - | 4 | 2 | 1 |
|  | $\mathbf{1 , 4 1 8}$ | $\mathbf{1 , 4 0 4}$ | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ |

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

| BHP | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1 , 0 0 0}$ | - | 0 | - | - | - | - | - | - | - | 8 |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 2 | 5 | - | - | - | 5 | 21 | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | - | 9 | 4 | 0 | 117 | 1 | 0 | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 1,191 | 1,012 | 1,272 | 1,149 | 1,204 | 1,262 | 1,135 | 1,182 | 170 | 64 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 20 | 30 | 15 | 6 | 9 | 6 | 5 | 6 | 224 | 40 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 67 | 206 | 122 | 87 | 40 | 16 | 26 | 127 | 178 | 88 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 110 | 131 | 121 | 56 | 46 | 10 | 48 | 115 | 104 | 53 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 5 | 6 | 8 | 12 | 1 | 2 | 6 | 29 | 829 | 1,000 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 19 | 8 | 12 | 0 | 3 | - | 1 | 12 | 9 | 6 |
| $\mathbf{> 3 , 9 9 9}$ | 6 | - | - | 1 | - | - | 0 | 7 | 6 | 0 |
|  | $\mathbf{1 , 4 1 8}$ | $\mathbf{1 , 4 0 4}$ | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ |

## Dissostichus eleginoides - Toothfish

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{8 0 0 - 9 9 9}$ | 1,134 | 944 | 1,221 | 1,085 | 1,184 | 900 | 1,123 | 1,023 | - | - |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | - | - | - | - | 117 | 353 | - | - | 249 | - |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | - | - | - | - | - | - | - | - | 781 | 982 |
|  | $\mathbf{1 , 1 3 4}$ | $\mathbf{9 4 4}$ | $\mathbf{1 , 2 2 1}$ | $\mathbf{1 , 0 8 5}$ | $\mathbf{1 , 3 0 1}$ | $\mathbf{1 , 2 5 2}$ | $\mathbf{1 , 1 2 3}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{1 , 0 3 0}$ | $\mathbf{9 8 2}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{5 0 - 5 4}$ | 1,134 | 944 | 1,221 | 1,085 | 1,184 | 900 | 1,123 | 1,023 | - | - |
| $\mathbf{5 5 - 5 9}$ | - | - | - | - | 117 | - | - | - | 781 | 982 |
| $\mathbf{6 0 - 6 4}$ | - | - | - | - | - | 353 | - | - | 249 | - |
|  | $\mathbf{1 , 1 3 4}$ | $\mathbf{9 4 4}$ | $\mathbf{1 , 2 2 1}$ | $\mathbf{1 , 0 8 5}$ | $\mathbf{1 , 3 0 1}$ | $\mathbf{1 , 2 5 2}$ | $\mathbf{1 , 1 2 3}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{1 , 0 3 0}$ | $\mathbf{9 8 2}$ |

Table K. 9 Total catch (tonnes) of longliners by brake horsepower (BHP) and year

| BHP | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | - | - | - | - | 117 | - | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 1,134 | 944 | 1,221 | 1,085 | 1,184 | 1,252 | 1,123 | 1,023 | 99 | - |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | - | - | - | - | - | - | - | - | 150 | - |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | - | - | - | - | - | - | - | - | 781 | 982 |
|  | $\mathbf{1 , 1 3 4}$ | $\mathbf{9 4 4}$ | $\mathbf{1 , 2 2 1}$ | $\mathbf{1 , 0 8 5}$ | $\mathbf{1 , 3 0 1}$ | $\mathbf{1 , 2 5 2}$ | $\mathbf{1 , 1 2 3}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{1 , 0 3 0}$ | $\mathbf{9 8 2}$ |

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{6 0 0 - 7 9 9}$ | 33 | 45 | 31 | 44 | 10 | 7 | 5 | 35 | 19 | 34 |
| $\mathbf{8 0 0 - 9 9 9}$ | 33 | 39 | 41 | 33 | 13 | 6 | 18 | 175 | 98 | 61 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 106 | 234 | 84 | 66 | 49 | 17 | 51 | 77 | 233 | 93 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 88 | 135 | 176 | 82 | 44 | 15 | 29 | 173 | 128 | 85 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 25 | 6 | 6 | 2 | 3 | - | 1 | 16 | 10 | 4 |
|  | $\mathbf{2 8 5}$ | $\mathbf{4 6 0}$ | $\mathbf{3 3 9}$ | $\mathbf{2 2 6}$ | $\mathbf{1 2 0}$ | $\mathbf{4 5}$ | $\mathbf{1 0 3}$ | $\mathbf{4 7 6}$ | $\mathbf{4 8 9}$ | $\mathbf{2 7 7}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 5}$ | 3 | 2 | 7 | - | - | - | 5 | 21 | - | - |
| $\mathbf{4 5 - 4 9}$ | 31 | 34 | 21 | 41 | 10 | 4 | 4 | 26 | 17 | 37 |
| $\mathbf{5 0 - 5 4}$ | 12 | 32 | 22 | 24 | 4 | 5 | 12 | 123 | 70 | 42 |
| $\mathbf{5 5 - 5 9}$ | 28 | 46 | 35 | 33 | 19 | 4 | 5 | 47 | 41 | 24 |
| $\mathbf{6 0 - 6 4}$ | 36 | 62 | 87 | 24 | 35 | 12 | 38 | 45 | 193 | 88 |
| $\mathbf{6 5 - 6 9}$ | 74 | 179 | 114 | 66 | 28 | 15 | 24 | 137 | 139 | 63 |
| $\mathbf{7 0 - 7 9}$ | 90 | 105 | 53 | 36 | 24 | 5 | 16 | 73 | 25 | 22 |
| $\mathbf{8 0 - 8 9}$ | 6 | - | - | 1 | - | - | - | 0 | 2 | 0 |
| $\mathbf{8 8 9}$ | 5 | 0 | - | 1 | 0 | - | - | 4 | 2 | 1 |
|  | $\mathbf{2 8 5}$ | $\mathbf{4 6 0}$ | $\mathbf{3 3 9}$ | $\mathbf{2 2 6}$ | $\mathbf{1 2 0}$ | $\mathbf{4 5}$ | $\mathbf{1 0 3}$ | $\mathbf{4 7 6}$ | $\mathbf{4 8 9}$ | $\mathbf{2 7 7}$ |

## Dissostichus eleginoides - Toothfish

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

| BHP | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1 , 0 0 0}$ | - | - | - | - | - | - | - | - | - | 8 |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 2 | 5 | - | - | - | 5 | 21 | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | - | 9 | 4 | 0 | - | 1 | 0 | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 58 | 68 | 51 | 64 | 20 | 10 | 11 | 159 | 70 | 64 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 20 | 30 | 15 | 6 | 9 | 6 | 5 | 6 | 74 | 40 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 67 | 206 | 122 | 87 | 40 | 16 | 26 | 127 | 178 | 88 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 110 | 131 | 121 | 56 | 46 | 10 | 48 | 115 | 104 | 53 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 5 | 6 | 8 | 12 | 1 | 2 | 6 | 29 | 48 | 18 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 19 | 8 | 12 | 0 | 3 | - | 1 | 12 | 9 | 6 |
| $\mathbf{> 3 , 9 9 9}$ | 6 | - | - | 1 | - | - | 0 | 7 | 6 | 0 |
|  | $\mathbf{2 8 5}$ | $\mathbf{4 6 0}$ | $\mathbf{3 3 9}$ | $\mathbf{2 2 6}$ | $\mathbf{1 2 0}$ | $\mathbf{4 5}$ | $\mathbf{1 0 3}$ | $\mathbf{4 7 6}$ | $\mathbf{4 8 9}$ | $\mathbf{2 7 7}$ |

Table K. 13 Total catch (tonnes) of potting vessels by gross registered tonnage (GRT) and year

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | 2017 | 2018 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{6 0 0 - 7 9 9}$ | - | 0 | - | - | - | - | - | - | - | - |
|  | - | 0 | - | - | - | - | - | - | - | - |

Table K. 14 Total catch (tonnes) of potting vessels by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{5 0 - 5 4}$ | - | 0 | - | - | - | - | - | - | - | - |
|  | - | 0 | - | - | - | - | - | - | - | - |

Table K. 15 Total catch (tonnes) of potting vessels by brake horsepower (BHP) and year

| BHP | 2009 | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | 2017 | 2018 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\leq \mathbf{1 , 0 0 0}$ | - | 0 | - | - | - | - | - | - | - | - |
|  | - | 0 | - | - | - | - | - | - | - | - |



## Dissostichus eleginoides - Toothfish

Length- frequency distribution and length-weight relationship in longliner fleet in 2018



Length- frequency distribution and length-weight relationship in trawler fleet in 2018



## Rajidae - Skates and Rays

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

| VESSEL TYPE | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | 22 | 23 | 55 | 32 | 78 | 32 | 28 | 29 | 28 | 28 |
| PO | - | 0 | - | - | - | - | - | - | - | - |
| TR | 5,851 | 5,868 | 6,915 | 6,622 | 5,854 | 5,523 | 6,365 | 5,877 | 3,161 | 1,966 |
|  | $\mathbf{5 , 8 7 3}$ | $\mathbf{5 , 8 9 1}$ | $\mathbf{6 , 9 7 0}$ | $\mathbf{6 , 6 5 5}$ | $\mathbf{5 , 9 3 2}$ | $\mathbf{5 , 5 5 5}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 4}$ |

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

| MONTH | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 96 | 43 | 185 | 15 | 278 | 5 | 8 | 592 | 27 | 1 |
| February | 179 | 167 | 360 | 216 | 288 | 125 | 154 | 440 | 8 | 27 |
| March | 178 | 168 | 126 | 511 | 219 | 144 | 119 | 129 | 67 | 79 |
| April | 304 | 332 | 588 | 320 | 413 | 208 | 184 | 225 | 205 | 130 |
| May | 555 | 474 | 878 | 398 | 428 | 394 | 348 | 663 | 285 | 398 |
| June | 662 | 338 | 398 | 404 | 267 | 267 | 693 | 669 | 390 | 133 |
| July | 570 | 323 | 849 | 703 | 394 | 289 | 878 | 522 | 466 | 268 |
| August | 1,330 | 1,650 | 1,446 | 1,568 | 1,227 | 1,373 | 1,110 | 627 | 436 | 130 |
| September | 851 | 1,146 | 992 | 802 | 867 | 1,479 | 1,359 | 585 | 420 | 130 |
| October | 407 | 326 | 691 | 1,099 | 868 | 560 | 829 | 1,201 | 626 | 211 |
| November | 511 | 418 | 317 | 438 | 369 | 523 | 330 | 120 | 96 | 121 |
| December | 229 | 505 | 141 | 181 | 313 | 188 | 380 | 132 | 163 | 366 |
|  | $\mathbf{5 , 8 7 3}$ | $\mathbf{5 , 8 9 1}$ | $\mathbf{6 , 9 7 0}$ | $\mathbf{6 , 6 5 5}$ | $\mathbf{5 , 9 3 2}$ | $\mathbf{5 , 5 5 5}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 4}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | - | - | 3 | - | - | 15 | - |
| ES | 2,665 | 2,514 | 2,843 | 2,490 | 2,284 | 2,244 | 3,637 | 3,208 | 1,487 | 1,058 |
| FK | 902 | 912 | 1,837 | 1,332 | 1,742 | 1,120 | 837 | 665 | 602 | 458 |
| KR | 2,262 | 2,394 | 2,219 | 2,797 | 1,884 | 2,174 | 1,894 | 1,995 | 1,077 | 477 |
| RU | - | 0 | - | - | - | - | - | - | - | - |
| UK | 44 | 71 | 71 | 35 | 23 | 13 | 24 | 38 | 8 | 1 |
|  | $\mathbf{5 , 8 7 3}$ | $\mathbf{5 , 8 9 1}$ | $\mathbf{6 , 9 7 0}$ | $\mathbf{6 , 6 5 5}$ | $\mathbf{5 , 9 3 2}$ | $\mathbf{5 , 5 5 5}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 4}$ |

## Rajidae - Skates and Rays

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 1,214 | 1,133 | 616 | 731 | 449 | 592 | 220 | 167 | 324 | 178 |
| $\mathbf{8 0 0 - 9 9 9}$ | 1,747 | 1,723 | 1,871 | 2,237 | 1,749 | 1,899 | 2,755 | 2,865 | 1,435 | 914 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 2,211 | 2,220 | 2,908 | 2,326 | 2,588 | 2,080 | 2,537 | 1,754 | 732 | 595 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 610 | 775 | 1,033 | 823 | 682 | 639 | 743 | 987 | 647 | 303 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 91 | 40 | 119 | 47 | 67 | 58 | 138 | 73 | 51 | 5 |
| $\mathbf{> 2 , 9 9 9}$ | - | - | 424 | 489 | 396 | 287 | - | 59 | - | - |
|  | $\mathbf{5 , 8 7 3}$ | $\mathbf{5 , 8 9 1}$ | $\mathbf{6 , 9 7 0}$ | $\mathbf{6 , 6 5 5}$ | $\mathbf{5 , 9 3 2}$ | $\mathbf{5 , 5 5 5}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 4}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 5}$ | 76 | 18 | 54 | - | 19 | 1 | 46 | 46 | - | 4 |
| $\mathbf{4 5 - 4 9}$ | 990 | 782 | 419 | 371 | 370 | 232 | 253 | 209 | 360 | 247 |
| $\mathbf{5 0 - 5 4}$ | 1,574 | 2,009 | 2,064 | 2,636 | 1,746 | 2,203 | 2,543 | 2,610 | 1,272 | 781 |
| $\mathbf{5 5 - 5 9}$ | 805 | 542 | 984 | 822 | 934 | 337 | 684 | 471 | 271 | 291 |
| $\mathbf{6 0 - 6 4}$ | 1,116 | 953 | 1,209 | 1,025 | 1,208 | 1,288 | 1,517 | 1,256 | 450 | 374 |
| $\mathbf{6 5 - 6 9}$ | 468 | 824 | 802 | 619 | 632 | 589 | 570 | 741 | 456 | 212 |
| $\mathbf{7 0 - 7 9}$ | 842 | 762 | 1,014 | 687 | 627 | 614 | 776 | 510 | 361 | 84 |
| $\mathbf{8 0 - 8 9}$ | - | - | - | 0 | - | - | - | 1 | 2 | 0 |
| $>89$ | 1 | 0 | 426 | 495 | 396 | 291 | 4 | 62 | 18 | 0 |
|  | $\mathbf{5 , 8 7 3}$ | $\mathbf{5 , 8 9 1}$ | $\mathbf{6 , 9 7 0}$ | $\mathbf{6 , 6 5 5}$ | $\mathbf{5 , 9 3 2}$ | $\mathbf{5 , 5 5 5}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 4}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1 , 0 0 0}$ | - | 0 | - | - | 24 | - | - | - | - | 50 |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 18 | 35 | - | 19 | 1 | 46 | 46 | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 52 | 40 | 42 | 49 | 62 | 20 | 19 | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 556 | 304 | 490 | 568 | 491 | 545 | 900 | 923 | 588 | 438 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 437 | 689 | 562 | 648 | 611 | 451 | 712 | 712 | 154 | 101 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 894 | 1,215 | 1,528 | 1,414 | 1,360 | 774 | 1,142 | 1,040 | 751 | 513 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 1,837 | 1,451 | 2,137 | 1,362 | 1,464 | 1,848 | 1,477 | 958 | 498 | 316 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 1,962 | 2,062 | 1,558 | 2,044 | 1,412 | 1,563 | 1,930 | 2,003 | 1,144 | 555 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 134 | 111 | 612 | 566 | 486 | 354 | 158 | 166 | 40 | 21 |
| $\mathbf{> 3 , 9 9 9}$ | 1 | - | 7 | 4 | 3 | 1 | 8 | 58 | 13 | 1 |
|  | $\mathbf{5 , 8 7 3}$ | $\mathbf{5 , 8 9 1}$ | $\mathbf{6 , 9 7 0}$ | $\mathbf{6 , 6 5 5}$ | $\mathbf{5 , 9 3 2}$ | $\mathbf{5 , 5 5 5}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 4}$ |





## Patagonotothen ramsayi-Rock Cod

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

| VESSEL TYPE | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PO | - | 0 | - | - | - | - | - | - | - | - |
| TR | 58,236 | 76,451 | 55,705 | 63,510 | 32,435 | 56,693 | 29,086 | 7,039 | 2,520 | 2,213 |
|  | $\mathbf{5 8 , 2 3 6}$ | $\mathbf{7 6 , 4 5 1}$ | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 1 0}$ | $\mathbf{3 2 , 4 3 5}$ | $\mathbf{5 6 , 6 9 3}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 0}$ | $\mathbf{2 , 2 1 3}$ |

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

| MONTH | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 2,746 | 892 | 3,521 | 112 | 743 | - | 32 | 933 | 40 | - |
| February | 6,061 | 5,674 | 5,993 | 3,086 | 3,197 | 560 | 1,780 | 1,024 | 141 | 154 |
| March | 4,961 | 10,163 | 2,502 | 9,016 | 2,847 | 1,251 | 1,527 | 750 | 415 | 472 |
| April | 9,532 | 13,402 | 6,205 | 10,051 | 3,837 | 1,170 | 4,442 | 1,167 | 434 | 622 |
| May | 11,050 | 11,580 | 11,150 | 14,240 | 2,751 | 9,128 | 9,544 | 536 | 85 | 173 |
| June | 3,136 | 5,281 | 4,578 | 5,500 | 922 | 5,940 | 3,806 | 131 | 19 | 10 |
| July | 2,801 | 4,449 | 2,571 | 3,680 | 675 | 8,922 | 390 | 226 | 109 | 36 |
| August | 2,820 | 4,027 | 3,697 | 4,945 | 2,935 | 7,334 | 756 | 923 | 564 | 234 |
| September | 3,811 | 6,007 | 4,036 | 3,288 | 4,898 | 5,984 | 729 | 992 | 545 | 357 |
| October | 6,637 | 8,929 | 7,536 | 5,352 | 5,086 | 7,925 | 1,093 | 235 | 127 | 56 |
| November | 3,239 | 2,064 | 2,889 | 1,877 | 2,111 | 5,997 | 841 | 72 | 31 | 70 |
| December | 1,442 | 3,984 | 1,028 | 2,361 | 2,435 | 2,482 | 4,146 | 51 | 11 | 28 |
|  | $\mathbf{5 8 , 2 3 6}$ | $\mathbf{7 6 , 4 5 1}$ | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 1 0}$ | $\mathbf{3 2 , 4 3 5}$ | $\mathbf{5 6 , 6 9 3}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 0}$ | $\mathbf{2 , 2 1 3}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | - | - | 0 | - | - | - | - |
| ES | 42,580 | 52,869 | 39,646 | 52,389 | 25,024 | 45,833 | 23,986 | 3,581 | 669 | 701 |
| FK | 14,610 | 22,388 | 15,051 | 10,754 | 7,079 | 10,314 | 4,605 | 3,205 | 1,765 | 1,470 |
| JP | - | 0 | - | - | - | - | - | - | - | - |
| KR | 110 | 337 | 215 | 255 | 305 | 511 | 170 | 119 | 5 | 6 |
| RU | - | 0 | - | - | - | - | - | - | - | - |
| UK | 937 | 857 | 794 | 111 | 28 | 36 | 325 | 133 | 82 | 37 |
|  | $\mathbf{5 8 , 2 3 6}$ | $\mathbf{7 6 , 4 5 1}$ | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 1 0}$ | $\mathbf{3 2 , 4 3 5}$ | $\mathbf{5 6 , 6 9 3}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 0}$ | $\mathbf{2 , 2 1 3}$ |

## Patagonotothen ramsayi-Rock Cod

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 3,907 | 5,439 | 3,263 | 5,020 | 3,247 | 3,504 | 2,052 | 176 | 66 | 158 |
| $\mathbf{8 0 0 - 9 9 9}$ | 7,226 | 5,987 | 4,965 | 5,017 | 4,520 | 9,916 | 4,384 | 1,141 | 158 | 158 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 36,103 | 45,252 | 32,535 | 36,898 | 17,962 | 29,919 | 15,803 | 2,369 | 621 | 668 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 7,620 | 14,991 | 13,063 | 14,962 | 5,769 | 11,617 | 5,342 | 1,770 | 835 | 666 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 3,380 | 4,782 | 1,864 | 1,586 | 921 | 1,727 | 1,504 | 1,582 | 841 | 562 |
| $\mathbf{> 2 , 9 9 9}$ | - | 0 | 14 | 26 | 16 | 10 | - | 0 | - | - |
|  | $\mathbf{5 8 , 2 3 6}$ | $\mathbf{7 6 , 4 5 1}$ | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 1 0}$ | $\mathbf{3 2 , 4 3 5}$ | $\mathbf{5 6 , 6 9 3}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 0}$ | $\mathbf{2 , 2 1 3}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 581 | 406 | 1,320 | - | 423 | 206 | 341 | 32 | - | - |
| $\mathbf{4 5 - 4 9}$ | 6,985 | 6,398 | 4,042 | 5,446 | 3,589 | 3,586 | 2,304 | 392 | 90 | 206 |
| $\mathbf{5 0 - 5 4}$ | 3,382 | 4,559 | 4,022 | 6,086 | 2,357 | 6,457 | 2,313 | 615 | 88 | 82 |
| $\mathbf{5 5 - 5 9}$ | 8,982 | 14,261 | 9,111 | 8,607 | 5,175 | 5,094 | 2,776 | 511 | 185 | 129 |
| $\mathbf{6 0 - 6 4}$ | 17,626 | 19,211 | 15,229 | 17,588 | 10,483 | 17,822 | 9,724 | 1,722 | 686 | 757 |
| $\mathbf{6 5 - 6 9}$ | 11,095 | 18,160 | 12,406 | 14,543 | 6,245 | 12,916 | 6,317 | 1,618 | 565 | 344 |
| $\mathbf{7 0 - 7 9}$ | 9,318 | 13,009 | 8,946 | 10,628 | 3,926 | 10,176 | 4,893 | 1,525 | 754 | 524 |
| $\mathbf{8 0 - 8 9}$ | 129 | 127 | 463 | 308 | 111 | 161 | 150 | 209 | 87 | 90 |
| $>\mathbf{8 9}$ | 138 | 320 | 167 | 302 | 125 | 276 | 268 | 414 | 65 | 80 |
|  | $\mathbf{5 8 , 2 3 6}$ | $\mathbf{7 6 , 4 5 1}$ | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 1 0}$ | $\mathbf{3 2 , 4 3 5}$ | $\mathbf{5 6 , 6 9 3}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 0}$ | $\mathbf{2 , 2 1 3}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 , 0 0 0}$ | - | 0 | - | - | 777 | - | - | - | - | 30 |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 406 | 829 | - | 423 | 206 | 341 | 32 | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 1,278 | 1,759 | 1,116 | 2,358 | 1,442 | 1,829 | 804 | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 7,987 | 7,410 | 6,276 | 7,034 | 2,940 | 8,277 | 3,326 | 863 | 150 | 183 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 9,680 | 11,480 | 6,858 | 8,410 | 4,838 | 6,066 | 2,516 | 607 | 58 | 62 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 19,088 | 30,393 | 20,282 | 24,136 | 10,812 | 17,336 | 9,710 | 1,890 | 430 | 508 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 15,482 | 18,777 | 16,983 | 17,959 | 8,803 | 18,926 | 9,548 | 1,669 | 717 | 634 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 241 | 573 | 571 | 2,011 | 1,345 | 2,321 | 1,125 | 551 | 101 | 130 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 4,050 | 5,192 | 2,056 | 1,140 | 746 | 1,345 | 1,412 | 1,092 | 771 | 465 |
| $\mathbf{> 3 , 9 9 9}$ | 430 | 462 | 733 | 463 | 309 | 387 | 303 | 333 | 294 | 201 |
|  | $\mathbf{5 8 , 2 3 6}$ | $\mathbf{7 6 , 4 5 1}$ | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 1 0}$ | $\mathbf{3 2 , 4 3 5}$ | $\mathbf{5 6 , 6 9 3}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 0}$ | $\mathbf{2 , 2 1 3}$ |




## Patagonotothen ramsayi-Rock Cod

Length- frequency distribution and length-weight relationship in 2018



## Others

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

| VESSEL TYPE | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | 99 | 94 | 130 | 104 | 97 | 83 | 107 | 109 | 68 | 73 |
| PO | - | 1 | - | - | 6 | 7 | 5 | - | - | 0 |
| TR | 1,130 | 600 | 2,264 | 468 | 920 | 281 | 603 | 2,501 | 3,620 | 1,065 |
|  | $\mathbf{1 , 2 2 9}$ | $\mathbf{6 9 6}$ | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 8}$ |

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

| MONTH | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 59 | 14 | 28 | 18 | 45 | 12 | 13 | 93 | 166 | 10 |
| February | 700 | 36 | 69 | 24 | 216 | 76 | 30 | 356 | 40 | 134 |
| March | 171 | 72 | 32 | 30 | 179 | 45 | 57 | 158 | 60 | 108 |
| April | 55 | 77 | 66 | 38 | 106 | 34 | 79 | 260 | 119 | 180 |
| May | 33 | 16 | 350 | 26 | 28 | 11 | 17 | 127 | 64 | 128 |
| June | 18 | 7 | 921 | 10 | 21 | 35 | 5 | 70 | 49 | 9 |
| July | 9 | 17 | 573 | 26 | 11 | 33 | 23 | 46 | 90 | 55 |
| August | 21 | 178 | 90 | 104 | 185 | 26 | 67 | 92 | 186 | 144 |
| September | 56 | 118 | 73 | 145 | 47 | 45 | 109 | 47 | 161 | 181 |
| October | 45 | 20 | 126 | 63 | 85 | 20 | 89 | 51 | 680 | 66 |
| November | 41 | 99 | 40 | 54 | 75 | 22 | 100 | 583 | 1,710 | 49 |
| December | 22 | 42 | 26 | 34 | 26 | 13 | 127 | 727 | 363 | 75 |
|  | $\mathbf{1 , 2 2 9}$ | $\mathbf{6 9 6}$ | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 8}$ |

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

| FISHING FLEET | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | - | - | 10 | - | - | 12 | - |
| ES | 970 | 318 | 2,008 | 258 | 261 | 114 | 475 | 2,274 | 3,214 | 510 |
| FK | 234 | 324 | 358 | 300 | 748 | 241 | 203 | 321 | 407 | 573 |
| JP | 2 | 38 | 5 | 0 | - | - | - | - | - | - |
| KR | 14 | 10 | 23 | 11 | 9 | 6 | 19 | 3 | 34 | 7 |
| RU | - | 1 | - | - | - | - | - | - | - | - |
| UK | 9 | 4 | 0 | 3 | 5 | 0 | 17 | 12 | 20 | 48 |
|  | $\mathbf{1 , 2 2 9}$ | $\mathbf{6 9 6}$ | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 8}$ |

## Others

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

| GRT | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 0 0}$ | - | - | - | - | 6 | 7 | 5 | - | - | 0 |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 11 | 66 | 97 | 16 | 20 | 27 | 16 | 80 | 34 | 33 |
| $\mathbf{8 0 0 - 9 9 9}$ | 184 | 141 | 183 | 162 | 275 | 87 | 270 | 1,375 | 292 | 101 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 168 | 239 | 142 | 154 | 595 | 133 | 264 | 720 | 2,042 | 414 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 827 | 203 | 1,954 | 196 | 93 | 86 | 125 | 373 | 1,206 | 405 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 36 | 9 | 12 | 43 | 34 | 28 | 34 | 60 | 114 | 185 |
| $\mathbf{> 2 , 9 9 9}$ | 2 | 38 | 6 | 0 | - | 3 | - | - | - | - |
|  | $\mathbf{1 , 2 2 9}$ | $\mathbf{6 9 6}$ | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 8}$ |

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

| LOA | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 4 5}$ | 4 | 0 | 6 | - | 6 | 7 | 30 | 539 | - | 0 |
| $\mathbf{4 5 - 4 9}$ | 54 | 67 | 107 | 32 | 20 | 7 | 33 | 70 | 46 | 46 |
| $\mathbf{5 0 - 5 4}$ | 116 | 137 | 161 | 129 | 259 | 104 | 221 | 622 | 177 | 74 |
| $\mathbf{5 5 - 5 9}$ | 76 | 77 | 104 | 73 | 98 | 6 | 19 | 249 | 241 | 140 |
| $\mathbf{6 0 - 6 4}$ | 81 | 76 | 1,764 | 66 | 366 | 101 | 218 | 453 | 1,719 | 446 |
| $\mathbf{6 5 - 6 9}$ | 803 | 119 | 148 | 145 | 219 | 94 | 110 | 536 | 1,333 | 210 |
| $\mathbf{7 0 - 7 9}$ | 86 | 177 | 95 | 105 | 48 | 25 | 70 | 121 | 158 | 153 |
| $\mathbf{8 0 - 8 9}$ | 1 | 2 | 1 | 16 | 3 | 9 | 2 | 3 | 11 | 39 |
| $>\mathbf{8 9}$ | 10 | 41 | 6 | 6 | 4 | 19 | 11 | 16 | 2 | 30 |
|  | $\mathbf{1 , 2 2 9}$ | $\mathbf{6 9 6}$ | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 8}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 , 0 0 0}$ | - | 1 | - | - | 6 | 7 | 5 | - | - | 21 |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | 0 | 1 | - | 0 | - | 25 | 539 | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | - | 3 | 1 | 2 | 9 | 1 | 1 | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 174 | 198 | 180 | 138 | 286 | 114 | 211 | 801 | 268 | 93 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 45 | 83 | 71 | 7 | 334 | 91 | 78 | 366 | 555 | 69 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 792 | 138 | 181 | 173 | 259 | 77 | 117 | 504 | 1,775 | 278 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 156 | 209 | 1,920 | 180 | 78 | 44 | 198 | 209 | 815 | 284 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 21 | 13 | 23 | 27 | 13 | 22 | 33 | 124 | 103 | 111 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 36 | 9 | 11 | 25 | 32 | 3 | 37 | 53 | 122 | 202 |
| $\mathbf{> 3 , 9 9 9}$ | 4 | 40 | 6 | 20 | 6 | 12 | 9 | 13 | 50 | 81 |
|  | $\mathbf{1 , 2 2 9}$ | $\mathbf{6 9 6}$ | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 8}$ |

## Others

Table N. 7 Total catch (tonnes) of others by species in 2018

| Common name | Latin Name | Catch mt |
| :---: | :---: | :---: |
| Blue Antimora | Antimora rostrata | 20.7 |
| Butterfish | Stromateus brasiliensis | 8.0 |
| Chinese Baby Face | Neophrynichthys marmoratus | 0.0 |
| Common Smelt | Austromenidia smitti | 0.1 |
| Crab | Lithodes murrayi | 0.0 |
| Crab | Paralomis spp | 0.2 |
| Dogfish | Squalidae | 1.4 |
| Dogfish, Spurdog | Squalus acanthias | 28.4 |
| Dogfish/Catshark | Schroederichthys bivius | 26.4 |
| Driftfish | Seriolella porosa | 0.2 |
| Dwarf Codling | Physiculus marginatus | 28.8 |
| Eelpout | Iluocoetes fimbriatus | 1.7 |
| Falkland Herring | Sprattus fuegensis | 0.8 |
| Flat fish | Mancopstta tricholepsis | 0.1 |
| Frogmouth | Cottoperca gobio | 48.4 |
| Greater Hooked Squid | Moroteuthis ingens | 4.4 |
| Greenland Shark | Somniosus microcephalus | 4.7 |
| Hagfish | Myxinidae | 0.0 |
| Horsefish | Congiopodus peruvianus | 0.6 |
| Icefish | Champsocephalus esox | 1.4 |
| Kingcrab | Lithodes turkayi | 0.1 |
| Lanternfish | Myctophidae | 0.3 |
| Lobster Krill | Mundia gregaria | 449.8 |
| Moonfish | Lampris immaculatus | 0.6 |
| Mullet | Eleginops maclovinus | 0.1 |
| Notothenid | Patagonotothen tessellata | 4.8 |
| Octopus | Octopus/eledone spp. | 5.1 |
| Pomfret Bream | Bramidae | 0.2 |
| Porbeagle | Lamna nasus | 1.3 |
| Red Fish | Sebastes oculatus | 1.4 |
| Sculpin | Cottunculus granulosus | 0.1 |
| Slender Tuna | Allothunnus fallai | 12.7 |
| Snapper Golden | Chrysophyrs auratus | 0.0 |
| Others | Others | 1.0 |
| Grand Total | Grand Total | 653.8 |

FALKLAND ISLANDS COMMERCLAL FISH \& SHELLFISH


