## FALKLAND ISLANDS GOVERNMENT

## FISHERIES DEPARTMENT



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## FOREWORD



## 1 The Falkland Islands Fishery - 2020

The total annual catch in $2020(\sim 182,540 \mathrm{t})$ was about $40,000 \mathrm{t}$ short of the average annual Falkland catch over the last decade. As usual, squid landings (Illex and Doryteuthis combined) constituted a majority of the total catch $(67.6 \%, 123,395 \mathrm{t})$. The abundance of the early maturing South Patagonian Stock of Illex was quite low that gave a total catch of $62,657 \mathrm{t}$. The abundance of the autumn-spawning cohort of D. gahi (so-called first cohort) was significantly lower than in the previous two years, giving a total of $60,738 \mathrm{t}$ of squid taken by all fleets in 2020. Abundance of common hakes was similar to previous two years, but low fishing effort during the most productive winter time resulted in a significantly lower total catch $(43,376 \mathrm{t})$. Catches of all other finfish species remained low.

### 1.1 Illex argentinus - Illex squid

Similar to the three previous years of 2017-2019, the South Patagonian Stock (SPS) of Illex showed further recovery from the year of extremely low abundance (2016). Interestingly, only ear-ly-maturing group of SPS was recovering, whereas late-maturing group had still very low abundance.

The oceanographic situation in January was not favourable for Illex migrations in the high seas area of $45-47^{\circ} \mathrm{S}$. The Falkland Current was intensified and shifted to the west, preventing inflows of warm water to spread outside the Argentinean EEZ. According to some sporadic information received by the Falkland Islands Fisheries Department, the catches of Illex on the high seas were very poor and did not exceed a few tonnes per day. On the contrary, catches of the Argentinean jigging fleet that worked 50-70 miles inside the Argentinean EEZ at the same latitudes as high seas were up to 30 mt per day. That was an indication that the abundance of Illex SPS during the 2020 fishing season should be at medium level.

Quite similar to 2019, strong negative anomalies of sea surface temperatures (SST) observed in the high seas prevented migrations of SPS squid to that area in February. Catches of Illex were quite poor both for jiggers and trawlers, and most Falkland-licensed trawlers fished for finfish in the FICZ/FOCZ. Similarly to February 2019, the warm water inflow appeared early in the northwest part of FICZ, and brought squid to the Falkland waters. The jigging fishing season started as usual on 15 February, but the entire fleet ( 104 vessels) initiated fishing activity in the last two days of the month, due to late licencing process. Good catches of Illex were observed subsequent to 23 February, in the northern part of FICZ in the area of confluence between the warm inflow and Falkland Current. Mean daily CPUEs peaked on 24-26 February (30-32 t per vessel/night), but
then decreased to $15-17 \mathrm{t}$ in the last two days of the month. Sizes of squid were slightly smaller than those observed in the last year (23-25 cm mantle length, ML). The total monthly Illex catch ( $11,914 \mathrm{t}$ ) in the FICZ/FOCZ was the second highest monthly catch taken in February in the last decade.

In March, the strong inflow of warmer waters from the northern part of the Patagonian Shelf formed well resolved gradient zones with an intensified Falkland Current in the northern part of FICZ. This oceanographic situation favoured aggregations of early maturing SPS (ESPS) of squid immigrating into this area from the Argentinean EEZ. As during the last year, the whole jigging fleet worked along the $200-\mathrm{m}$ isobath in the northeastern part of FICZ during the first three weeks of March and had reasonable catches of Illex, varying from 20-25 t in the first week to 10-12 t of squid per vessel/night in the third week. Maximum CPUEs attained 102 t per vessel/night. In the last 10 days of the month, larger squid of Late Maturing SPS (LSPS) appeared in the western part of FICZ, with some jigging vessels having up to 18 t per night there. However, the abundance of this squid was relatively low, and the majority of the jigging fleet carried on fishing in the northeast region of FICZ, having an average of 12-13 t per vessel/night. Trawlers fished under B- and G -licenses in the northeast of FICZ and had quite high CPUEs of 20-25 t per vessel/day (maximum 52 t per vessel/day) in the first half of the month, decreasing to $15-20 \mathrm{t}$ per vessel/day in the second half of the month. A total of $42,061 \mathrm{t}$ of Illex was taken in the Falkland waters in March, which was the fourth highest catch for March in the last decade.

Temperatures of the shelf water inflow in the northern part of FICZ lowered in April, indicating the end of the feeding period of the ESPS of Illex. Aggregations of squid moved further north outside Falkland waters. The whole jigging fleet (105 licensed vessels) continued to work in the northern part of FICZ, but relatively good catches (mean 10 t per vessel/night) were observed only on $1^{\text {st }}$ April. After April $1^{\text {st }}$, the catch declined, with mean daily catches varying between 2 and 4 t per vessel/night. In the middle of the month, a few jiggers had relatively good catches of LSPS squid in the western part of FICZ (10-15 t per vessel/night). However, the abundance of LSPS squid was low. In the last week of the month, jigging vessels started to leave the fishing grounds and sailed either to the high seas or finished their fishing operations for this year. G-licensed trawlers had reasonable catches of Illex (10-15 t per vessel/day) when targeting the squid in the northeastern part of FICZ. A total of $8,213 \mathrm{t}$ of Illex was taken in April, making it the fourth lowest catch for this month in the last decade.

During the first week of May, remaining 40-50 vessels had catches between $10-12 \mathrm{t}$ per night. However, subsequent catches decreased sharply to 1-2 t per day. By $11^{\text {th }}$ May, no jigging vessels remained fishing in FICZ/FOCZ and some of these vessels ventured to the high seas to check the fishing there. On the $21^{\text {st }}$ May, six jiggers returned to FICZ/FOCZ to try to capture the last migrating squid, but without much success (1-2 t per vessel/night), and they left the zones again on $24^{\text {th }}$ May.

Overall, the total catch of Illex in 2020 was the second highest observed over the last five years reaching $62,656 \mathrm{t}$. However, even the highest catch in these last five years ( $67,445 \mathrm{t}$ observed in 2017) was far behind of even the minimum annual total of $73,557 \mathrm{t}$ observed between 2011 and 2015. As in 2019, there was no reimbursement of licence fees due to high market price.

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

Patagonian longfin squid, or Falkland calamari (Doryteuthis gahi), is a domestic squid resource managed exclusively by the Falkland Islands Government Fisheries Department.

In 2020, a biomass survey for first season recruitment was carried out on-board the fishing vessel Argos Cíes from the 8 to 22 February. Fifty-nine scientific trawls were taken during the survey, catching 268.4 t of squid. A biomass estimate of $27,991 \mathrm{t}$ of $D$. gahi was calculated for the fishing zone, of which $7,306 \mathrm{t}$ were estimated north of $52^{\circ} \mathrm{S}$, and $20,685 \mathrm{t}$ were estimated south of $52^{\circ} \mathrm{S}$.

The first commercial calamari season started on $24^{\text {th }}$ February. Fifteen trawlers fished for D. gahi in the southern part of the Loligo Box. Fishing this year occurred a bit deeper than usual, with squid aggregations found at $140-180 \mathrm{~m}$ depths from the east of Beauchene all the way to the western part of the Box. The catches were lower than in the last year, but quite stable with mean CPUE of 46 t per vessel/day. Maximum CPUE ( 101 t per vessel/day) was taken on $26^{\text {th }}$ February. Sixteenth trawler joined the fleet on 27 February due to late arrival to the fishing grounds. In the northern sub-area, commercial fishing started on $28^{\text {th }}$ February with 12 vessels. The same fishing concentration near the centre of the Loligo Box partially overlapped the north sub-area and was inferred to represent a new immigration start in the north. Total monthly catch attained $4,867 \mathrm{t}$, which is the second highest catch for February in the last decade. All vessels had seal observers and fished without SEDs, as there were no interactions observed between seals and trawlers. All vessels embarked seal observers.

In March, aggregations of D. gahi were mainly fished in the southern and middle parts of the Loligo Box. The highest average daily CPUE was recorded on 3 March ( 59 t per vessel/day, maximum CPUE of 100 t per vessel/day). This increase in catches was inferred to represent a new immigration start, and on $9^{\text {th }}$ March (day 69) a sudden decrease and increase of individual squid size, followed by increasing CPUE, was also inferred to represent a new immigration start. During first two weeks of the month, CPUEs gradually decreased down to $25-28 \mathrm{t}$ per vessel $/$ day. On $17^{\text {th }}$ March, a sharp increase in CPUE (mean 43.6 t , with maximum CPUE of 72.8 t per vessel/day) was concurrent with increasing, rather than decreasing, individual sizes and maturities of squid, and therefore was not inferred as a further immigration. Catches of squid were rather stable until the end of the month with an average CPUE of 25 t per vessel/day. The northern part of the Loligo Box was briefly fished in the beginning of the month, but dense concentrations of squid were not found and captains preferred to fish in the south. Two sea lion mortalities triggered the obligatory usage of Seal Exclusion Devices (SEDs) in the northern part of the Loligo Box since $6^{\text {th }}$ March, and another two mortalities of fur seals that occurred in the south made obligatory use of SEDs within the whole Loligo Box after $18^{\text {th }}$ March. Only one Southern sea lion mortality was recorded after SED implementation.

In April, catches of squid were quite variable, and also lower than those observed in March. Average catch for the month attained 23 t per vessel/day. At the end of March and beginning of April, CPUEs dropped to $15-16 \mathrm{t}$ per vessel/day, leading the Fisheries Department to issue a one week warning about possible early closure of the fishery, if the situation persisted and if the model would show a biomass projection falling below $10,000 \mathrm{t}$. However, as usual for the first season, another wave of abundance of squid appeared in the fishing grounds on $7^{\text {th }}$ April (day 98). On $15^{\text {th }}$ April (day 106), another peak of CPUE was observed followed a day of zero fishing (stormy weather), and corresponded, in hindsight, to a sustained dip in individual squid sizes inferred as a
new immigration. On $26^{\text {th }}$ April individual squid sizes and maturities bottomed out at a decrease over several days, and when CPUE increased substantially the following day ( $27^{\text {th }}$ April, day 118) this date was inferred as the final immigration of the season. In the northern sub-area, fishing by more than a single vessel in the north resumed on $2^{\text {nd }}$ April (day 93) for the first time in nearly two weeks This resulted in substantially higher catches than previously; implying that more squid must have entered into the northern sub-area. Because of the gap in fishing effort, an exact date of new immigration was difficult to ascertain and was assigned to day 93 by default. As CPUEs then continued to increase, albeit at a modest level, a mini-immigration was inferred to have started on $12^{\text {th }}$ April (day 103), when individual squid sizes decreased, and then increased again. Another miniimmigration was inferred on $16^{\text {th }}$ April (day 107), with higher CPUE and again a decrease in squid sizes. Fishing was closed early north of $52^{\circ} \mathrm{S}$, on $23^{\text {rd }}$ April, because of small sizes of the squid. The aggregate (north + south) biomass estimate to the end of the season was $19,822 \mathrm{t}$ of squid remaining in the fishing zone. Model variability estimation showed $<0.1 \%$ risk of the true biomass being $<10,000$ tonnes on 1 May. However, estimation also shows that on $1^{\text {st }}$ April, risk of the true biomass being $<10,000$ tonnes was $13.4 \%$, justifying the caution that was exercised for the second half of the season. Total monthly catch of D. gahi reached $10,471 \mathrm{t}$, and was close to the average catch in April in the last decade.

Total catch of D. gahi in the 2020 first season reached $29,116 \mathrm{t}$, the lowest first season catch since 2016 but above the median for catches since 2004, when management was assumed by the FIFD.

A biomass survey for the second season recruitment was carried out on-board the fishing vessel Beagle $F I$ from $14^{\text {th }}$ to $28^{\text {th }}$ July. Fifty-five scientific trawls were taken during the survey, catching 575 t of $D$. gahi squid; the highest for a second-season survey since at least 2006. The results of the survey obtained an estimate of $92,194 \mathrm{t}$ of squid present in the fishing zone, of which $53,017 \mathrm{t}$ were estimated north of $52^{\circ} \mathrm{S}$, and $39,177 \mathrm{t}$ were estimated south of $52^{\circ} \mathrm{S}$; an uncommon distribution of higher biomass north than south.

The commercial season started on $30^{\text {th }}$ July, with a one-day delay brought about by the logistic difficulties of requiring marine mammal observers to be transported to the Falkland Islands by military flight. Fifteen X -licensed trawlers started the season, split between the northern and southern parts of the 'Loligo Box', while one vessel delayed entry by a day to complete crew health tests. Ultimately, marine mammal observers could not be released from quarantine in time to join season opening, and the arrangement was made for vessels to start fishing with SEDs but return to port on $6^{\text {th }}$ August to pick up their observer. With observers embarked, the requirement for SEDs was lifted and vessels resumed fishing on $7^{\text {th }}$ August. Hours later, six pinniped mortalities had been reported from the south sub-area of the Loligo Box (south of $52^{\circ}$ ), and the use of SEDs was reinstated in the south with immediate effect. By noon, a pinniped mortality had been reported from the north sub-area, and the use of SEDs was reinstated in the north with effect from the start of $8^{\text {th }} \mathrm{Au}$ gust. Of 60 X -licence commercial trawls carried out on $7^{\text {th }}$ August, 28 trawls were equipped with a SED (some in the north voluntarily), and this season overall presented the most comprehensive mandate for SEDs since the start of the pinniped problem in 2017.

Similar to last year, exceptionally high catches of D. gahi were observed during the first few days of August. The whole fleet fished in the southern area and had daily mean CPUEs of $60-90 \mathrm{t}$. During the following two weeks, the CPUEs gradually decreased to $25-27 \mathrm{t}$ per day, with vessels fishing both in the northern and southern areas of the Loligo Box. Strong storm stopped the fishery on $6^{\text {th }}$ August. The second wave of abundance occurred in the northern part of the Box on $19^{\text {th }} \mathrm{Au}$ -
gust, with mean CPUEs attaining 52 t per day. Later, CPUEs decreased to 30 t per day and stayed quite stable until the end of the month. The size of squid was good with modal length of 12-13 cm mantle length (ML).

Sixteen trawlers fished for the squid until 24th September, when the effort of f/v Petrel was met, and she left the fishery. Overall, the catches were much lower than in August, but still rarely below the 20 t per vessel/day mark. Two peaks of catches were observed in September. The first peak took place on the 6th September with mean CPUE attaining 34.3 t per vessel/day (maximum 55 t per vessel/day). The second peak took place on 22nd September with mean CPUE of 24.6 t per vessel/day. As in August, the fishery has been disrupted by several days of bad weather occurring between $16^{\text {th }}$ and $20^{\text {th }}$ September, with no vessels fishing on $19^{\text {th }}$ September and only two vessels fishing on $20^{\text {th }}$ September. Interestingly the majority of catches were observed in the middle part of the Loligo Box (grid squares $\mathrm{XS}^{* *}$ and $\mathrm{XT}^{* *}$, but not in the southern part of the Box ( $\mathrm{XV}^{* *}$ and $\mathrm{XW}^{* *}$ ), as happened before. The total monthly catch of D. gahi $(9,029 \mathrm{t})$ was at the higher quarter of catches for this month in the last decade, indicating a good abundance of the second cohort of squid this year.

The second season was extended to the beginning of October due to three days of bad weather encountered earlier in the season in August and September, in addition to some vessels starting the season later. Southern gale force winds impacted the fishing performance on $1^{\text {st }}$ October, with vessels having an average of 11 t of squid per vessel/day. In the next four days, the fishing improved to $18-22 \mathrm{t}$ per vessel/day (maximum 47 t per vessel/day). During the last day of the second season, only one vessel fished and it had a good catch of 42 t .. A total of $1,212 \mathrm{t}$ was caught in the beginning of October, bringing the total catch for the second season to $30,727 \mathrm{t}$ and making it the third highest second season catch in the last 10 years after prolific 2012 and 2018 seasons. The estimated escapement biomass of $D$. gahi remaining after the end of the first season was $11,867 \mathrm{t}$, with an $8.8 \%$ risk of the escapement biomass falling below the threshold limit of $10,000 \mathrm{t}$.

An additional $1,862 \mathrm{t}$ of $D$. gahi were caught in Falkland fisheries other than C- or X-licensed during 2020. The total catch for the year thus attained $60,732 \mathrm{t}$, the lowest annual total since 2016 but well above the median since 2004.

### 1.3 Martialia hyadesi-Martialia squid

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

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

Southern blue whiting (BLU) is a pelagic species that migrates between Chilean, Argentine and Falkland Islands waters. Spawning takes place during September and October, and spawning grounds are located to the south of the Falkland Islands and at the southern coast of Chile.

Chilean BLU catch increased from 1987 to 1998 with a subsequent decrease since 1999. Argentine and Falkland Islands BLU catches have declining trends since the early 1990's. As a consequence, in 1999 the South Atlantic Fisheries Commission recommended a reduction of the fishing mortality on this stock to meet conservation targets. Catches in the Falkland Islands have remained low and a ban of any fishing activity on the Falkland spawning grounds was established for conservation reasons since 2010. For the total Argentine and Falklands BLU production, the 10-year aver-
age contribution by nation from 2011 to 2020 was $20 \pm 15 \%$ (mean $\pm$ SD) for the Falkland Islands and $80 \pm 15 \%$ for Argentina.

Catches of BLU in Falkland Islands waters have averaged 21,991 t per year since 1987. The maximum catch was observed in 1990 ( $72,351 \mathrm{t}$ ), followed by a constant decrease to reach the lowest catch in $2020(69 \mathrm{t})$. The 10 -year mean annual catch from 2011 to 2020 was $2,394 \mathrm{t}$, and the 5 -year mean annual catch from 2016 to 2020 was even lower ( $1,861 \mathrm{t}$ ). This decline may also be in part because surimi vessels have not fished in Falkland Islands waters since 2017.

In 2020, this species was caught mainly in the finfish fishery by W -licensed vessels ( $55 \mathrm{t} ; 81 \%$ ). A - ( $198 \mathrm{~kg} ; 0.3 \%$ ) and G-licences $(0 \mathrm{~kg} ; 0 \%)$ reported nearly null BLU catches. The second-highest catch in the year ( 11 t ; 16\%) was reported during research surveys under E-licence. Small amounts were reported by the 'Loligo' fishery, i.e. C- ( $50 \mathrm{~kg} ; 0.1 \%$ ) and X-licensed vessels ( 2.3 t ; $3.4 \%$ ). All licences had less catches in 2020 compared with 2019.

The mean CPUE per month across years since 1987 indicates greater abundance of BLU in austral spring (October to December). CPUE decreases through summer (January to March), and the lowest abundance occurs during autumn (April to June) and early winter (July). However, in 2020 the highest CPUEs per month were detected in early summer (January and February; $58 \mathrm{~kg} / \mathrm{h}$ and 56 $\mathrm{kg} / \mathrm{h}$, respectively), with a smaller peak in early spring (October; $29 \mathrm{~kg} / \mathrm{h}$ ). W-licensed vessels, with the highest contribution to BLU catch, had a peak of CPUE in October ( $113 \mathrm{~kg} / \mathrm{h}$ ), with $<59$ $\mathrm{kg} / \mathrm{h}$ the rest of the year. Most BLU catches occurred to the southwest of West Falkland.

### 1.5 Macruronus magellanicus - hoki

Hoki is one of the most abundant pelagic fish on the Patagonian shelf. Genetic studies and otolith microchemistry analysis suggest connectivity within the Southwest Atlantic, and between the Southwest Atlantic and Southeast Pacific. Hence, it is likely that the same stock is targeted in Chilean, Argentine, and Falkland Islands waters. Spawning occurs during the austral winter (July to September), mainly in Chilean waters between $43^{\circ} \mathrm{S}$ and $48^{\circ} \mathrm{S}$. Most hoki migrates out of Falkland Islands waters to spawn during winter, although small spawning areas have been detected at the platform edge east of the Falkland Islands. This species is not highly abundant in Falkland Islands waters as the FICZ is at the edge of the species distribution. However, hoki is targeted mainly by trawlers during spring (October to December), summer (January to March) and autumn (April to June) in deep waters to the southwest of West Falkland when it is relatively abundant in the area.

In Chile, landings of hoki increased from 1987 to 1998, followed by a steep decline. In Argentina, catches of hoki averaged $60,428 \mathrm{t}$ per year from 1987 to 2020. Catches had an increasing trend from 1987 to 2000, were relatively stable from 2000 to 2009, and declined from the year 2010. In the Falkland Islands, catches of hoki averaged 14,905 t per year from 1987 to 2020, with an increasing trend from 1987 to reach a maximum of $26,975 \mathrm{t}$ in 2002. There was a gradual decline to $4,052 \mathrm{t}$ in 2017, followed by annual catch increases to reach $7,643 \mathrm{t}$ in 2020. Average annual catch in Falkland Island waters was $10,504 \mathrm{t}$ over the last 10 years ( $2011-2020$ ), whereas the 5 -year average (2016-2020) was $7,021 \mathrm{t}$. The Falkland Islands had the smallest annual contribution (18 $\pm 5.5 \%$; mean $\pm \mathrm{SD}$ ) to the total Argentine and Falklands hoki catch over the last 10 years (20112020), whereas Argentina contributed $82 \pm 5.5 \%$ of the total catch. Average proportions by nation have remained over the last 5 years, from 2016 to 2020.

In the Falkland Islands, a total of $7,643 \mathrm{t}$ of hoki was caught in 2020; this is the eight-lowest annual catch observed since 1987. However, it is the fifth highest catch over the last 10 years (20112020), and the second highest catch over the last 5 years (2016 - 2020). Most hoki caught in Falkland Islands waters during 2020 were reported by the finfish fishery, with $\mathrm{W}-(5,938 \mathrm{t} ; 78 \%)$ and $\mathrm{G}-(1,446 \mathrm{t} ; 19 \%)$ licensed vessels contributing most of the catch. Total annual catch was higher in 2020 compared with 2019 due to the increase in catch of $\mathrm{C}-, \mathrm{E}-, \mathrm{G}$ - and X-licences from one year to the other.

The mean CPUE per month across years since 1987 indicates greater abundance of hoki in summer, with the lowest abundance during winter, which is consistent with the CPUE pattern detected during 2020. In 2020, monthly CPUE fluctuated from $79 \mathrm{~kg} / \mathrm{h}$ to $1,798 \mathrm{~kg} / \mathrm{h}$, with the highest CPUE in January. CPUE under W-licence had peaks in January ( $1,798 \mathrm{~kg} / \mathrm{h}$ ) and February ( 1,430 $\mathrm{kg} / \mathrm{h}$ ), and remained relatively high ( $>900 \mathrm{~kg} / \mathrm{h}$ ) from April to June, and in October. CPUE under G-licence, used from March through May, reached up to $807 \mathrm{~kg} / \mathrm{h}$ in May. From a regional perspective. most hoki catches took place to the southwest of West Falkland.

### 1.6 Merluccius hubbsi, Merluccius australis - Hakes

Two hake species occur in Falkland Islands waters, common hake Merluccius hubbsi and southern hake Merluccius australis. Southern hake is commercially more valuable than common hake, but common hake is between one and two orders of magnitude more abundant in Falkland Islands waters and therefore produces much higher catches and revenue. Both hake species migrate between Argentine and Falkland Islands waters in the Atlantic. Common hake is more abundant in Argentine waters from November to March during the spawning season, and then migrate to their foraging grounds in Falkland Islands waters from March and April. In Falkland Islands waters common hake is most abundant in the northwest of the FICZ north of $51^{\circ} \mathrm{S}$ and west of $60^{\circ} \mathrm{W}$. This area is closed to restricted finfish and skate trawl fisheries during the six months of peak abundance of common hake. Southern hake is at the edge of its distribution range in Falkland Islands waters, and mostly encountered in deeper waters to the southwest of West Falkland. This species is taken as bycatch in the finfish trawl fisheries as low abundance precludes it from being a primary target.

The highest annual total catch of common hake was reported in 2019 with 53,554 tonnes. Last year, 2020, the annual reported total catch decreased to 43,438 tonnes, which was still the secondhighest annual total catch since 1988. However despite fewer fishing days, A-licence hake CPUE was only $17 \%$ lower in 2020 than in 2019, and W-licence hake CPUE was $4 \%$ lower in 2020 than in 2019. Cumulatively, common hake made up over $85 \%$ of finfish catches and was the most abundant species from March through November, peaking in May, June and July with 7334, 6949, and 7027 tonnes respectively. Despite spatial restrictions, common hake made up $>75 \%$ of catches by W-licensed vessels from April through November. In contrast to last year, a substantial number of W-licence days were still available to the fleet in November, resulting in the largest common hake catch in November since 2004.

In the FICZ/FOCZ, common hake in 2020 was caught primarily in the finfish trawl fisheries: A( $20,863 \mathrm{t}$; $47.9 \%$ ), W- ( $13,236 \mathrm{t}$; 30.4\%), and G- ( $8,254 \mathrm{t}$; 19.0\%) licences. Lesser amounts were reported caught in the 'Loligo' (C- and X- licences; 373 t ; $0.9 \%$ ), skate (F-licence; $494 \mathrm{t} ; 1.1 \%$ ), and Illex (B-licence; 26 t ; 0.1\%) trawl fisheries.

Total catches of southern hake have decreased from 94 t in 2019 to 48 t in 2020. The highest recent southern hake catches were taken in 2016, when vessels targeted grenadier in deep water in the southwest of the FICZ. Regulatory changes have reduced that fishing activity, and the southern hake catch reported in 2020 was the lowest since 2015.

### 1.7 Genypterus blacodes - kingclip

Kingclip is caught in the Southwest Atlantic by Argentina and the Falkland Islands. In Argentina, kingclip catches were on average 16,106 t per year from 1987 to 2020. Catches increased from 1987 to reach a maximum in 1990 ( $34,775 \mathrm{t}$ ), followed by a declining trend to reach $2,890 \mathrm{t}$ in 2020. In the Falkland Islands, kingclip catches averaged 2,074 t per year from 1987 to 2020. There was an increasing trend in catches from 1987 to reach a maximum of $3,977 \mathrm{t}$ in 2013, year after which catches declined. The Falkland Islands had the smallest annual contribution ( $26 \pm 7.3 \%$; mean $\pm$ SD) to the total Argentine and Falklands kingclip production over the last 10 years (2011 2020), whereas Argentina contributed $74 \pm 7.3 \%$ of the total catch. However, within over the last 5 years (2016-2020), the Falkland Islands catch proportion increased to $36 \pm 6.5 \%$.

The total annual catch of kingclip in Falkland Islands waters for 2020 was 1,625 t. This is the twelfth lowest total annual catch since 1987 with 450 t less than the long-term average since 1987, and it is the third lowest catch over the last 10 years $(2011-2020)$ and also over the last 5 years (2016-2020). In 2020, this species was caught primarily in the finfish fishery: A- ( $635 \mathrm{t} ; 39 \%$ ), W- ( $572 \mathrm{t} ; 35 \%$ ), and G- ( 328 t ; 20\%) licences. Lesser amounts were reported by the 'Loligo' (Cand X-licences, $6 \mathrm{t} ;<1 \%$ ), Illex (B-licence, $2 \mathrm{t} ;<1 \%$ ), and skate ( F -licence, $77 \mathrm{t} ; 5 \%$ ) fisheries. All licences had less catches in 2020 compared with 2019, except for A- and F-licences.

Monthly CPUE of all licences combined fluctuated from $32 \mathrm{~kg} / \mathrm{h}$ to $78 \mathrm{~kg} / \mathrm{h}$ during the year, with the highest CPUE in November. CPUE under A-licence had a peak in June ( $71 \mathrm{~kg} / \mathrm{h}$ ) and remained over $45 \mathrm{~kg} / \mathrm{h}$ during April and May, and from July through October. CPUE under Wlicence had a peak in April ( $171 \mathrm{~kg} / \mathrm{h}$ ), with over $55-88 \mathrm{~kg} / \mathrm{h}$ from May through November; January and February had the lowest monthly CPUE with $32 \mathrm{~kg} / \mathrm{h}$ each. CPUE under G-licence reached up to $86 \mathrm{~kg} / \mathrm{h}$ in May. While effort on A-licence ( $10,804 \mathrm{~h}$ ) exceeded that of W- $(9,225 \mathrm{~h})$ and G- (5,683 h) licences, CPUEs were relatively similar ( 59,62 , and $58 \mathrm{~kg} / \mathrm{h}$, respectively).

Consistent with previous years, kingclip abundance began to peak in April, corresponding to their autumn migration into the FICZ where it was most abundant to the west of the Falkland Islands. In winter (July to September), it was abundant to the north, northwest, and west of the Falkland Islands, when it migrates to their feeding grounds, and generally remains abundant in the FICZ during spring (October to December).

### 1.8 Salilota australis - red cod

Red cod is another commercial by-catch species with a trend of declining catches and abundance in the southwest Atlantic. Due to the declining trend in abundance, conservation measures for this species were initiated in 2009, and later expanded, leading to a complete fishing ban in their spawning grounds from the end of August to the middle of October.

For 2020, a total of $1,418.2 \mathrm{t}$ of red cod was taken by all fisheries in the Falkland fishing zones. The majority of catches were reported from the finfish trawl fisheries, with $733.5 \mathrm{t}(51.7 \%)$ taken under W-licence, $297.2 \mathrm{t}(21.0 \%)$ on A-licence, and 259.4 t ( $18.3 \%$ ) on G-licence. Lesser quanti-
ties were caught in the Doryteuthis (C- and X-licences; 94 t ; 6.6\%), skate (F-licence; 29 t ; 2.1\%), and Illex (B-licence; $0.4 \mathrm{t} ;<0.1 \%$ ) trawl fisheries. A further $4.4 \mathrm{t}(0.3 \%)$ was taken on E-licence during research cruises. Catches were primarily from Spanish-flagged vessels ( $1,122 \mathrm{t} ; 79.1 \%$ ), followed by Falkland Islands-flagged vessels ( 292.0 t ; 20.6\%).

After three consecutive years of increasing catches in Falkland waters (2017-2019), red cod catch has decreased again in 2020 to $1,418.2 \mathrm{t}$, the second lowest catch in the last decade ( 2011 to 2020). This represents only $47.0 \%$ of the last decade mean of $3,017.3 \mathrm{t}$. In 2020, peak catch was taken in February ( 302.6 t ), and monthly catches fluctuated throughout the year without a clear trend. The third and fourth largest monthly catches were taken in September and October, during the fishing ban period in red cod spawning grounds, partially due to the large catches taken on X -licence in Loligo-box in September (highest since 2013 and second highest in the last decade). A significant disparity in CPUEs between licences was noted (A-licence: $26.4 \mathrm{~kg} / \mathrm{hr}$, range of 15.6 to $37.7 \mathrm{~kg} / \mathrm{hr}$; G-licence: $39.8 \mathrm{~kg} / \mathrm{hr}$, range of 1.8 to $68.5 \mathrm{~kg} / \mathrm{hr}$; W-licence: $74.0 \mathrm{~kg} / \mathrm{hr}$, range of 41.4 to 121.4 kg / hr).

### 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 $\$ 30 / \mathrm{kg}$. However, by-catch of juvenile toothfish in the finfish trawl fisheries, on the continental shelf and shelf break, are not certified and are therefore, far less valuable: being sold with other white-fleshed fish for less than US $\$ 5 / \mathrm{kg}$. Furthermore, juvenile toothfish are by-caught by the Doryteuthis trawl fishery, where most are discarded, thus potentially affecting future recruitment of the species in the longline fishery.
For 2020, a total of $1,246.3 \mathrm{t}$ of toothfish was taken by all fisheries in the Falkland fishing zones, with $1,043.5 \mathrm{t}(83.7 \%)$ taken by targeted longline fishery, $152.9 \mathrm{t}(12.3 \%)$ under W -licence, 22.1 t ( $1.8 \%$ ) under A-licence, 21.2 t ( $1.7 \%$ ) under G-licence, $4 \mathrm{t}(0.3 \%)$ under C - and X-licences, and $1.3 \mathrm{t}(0.1 \%)$ under F -licence. A further $1.4 \mathrm{t}(0.1 \%)$ was taken under E-licence during research survey. The majority of toothfish catches were taken by Falkland-flagged vessels, 1,092 t ( $87.6 \%$ ), primarily in the longline fishery. This was followed by 153 t ( $12.2 \%$ ) on Spanish-flagged vessels (all in the trawl fisheries) and $2.3 \mathrm{t}(0.2 \%)$ on UK-flagged vessel (primarily from the W -licence finfish fishery).

A single longliner (CFL Hunter) operated in Falkland waters throughout the year (except between May and September when it was in Spain for maintenance) for a total of 198 fishing days on Llicence and three days on E-licence (broodstock fishing trip), alternating between the north-eastern and southern parts of FICZ/FOCZ. Toothfish catches averaged 5.3 t per day in the longline fishery, while CPUE was $4.26 \mathrm{~kg} / \mathrm{umbrella}$; the fifth highest annual CPUE in this fishery in the last decade. During 2020, monthly CPUE ranged from 2.87 to $5.33 \mathrm{~kg} /$ umbrella, peaking in April and October.

For a fourth consecutive year, toothfish catches in the finfish trawl fisheries (A-, G- and Wlicences) decreased, reaching 196.2 t in 2020; for a third consecutive year, this amount is below the 300 t expected to be caught by the finfish trawl fisheries for the purpose of stock assessment calculations. Situation was similar in the Doryteuthis trawl fishery (C- and X-licences), with toothfish catches decreasing for a fourth consecutive year to reach 4 t in 2020; for a fourth consecutive year, this amount is below the 30 t expected to be caught by the Doryteuthis trawl fisheries for the
purpose of stock assessment calculations. This decrease can be attributed, at least in part, to new bycatch measures limiting grenadiers to $10 \%$ and Patagonian toothfish to $1.5 \%$ of the total daily catch per vessel, first introduced in 2018. Bycatch above these levels trigger a move-on rule with respective grid squares becoming restricted for ten full days. As such, fishing behaviours that led to an increase in toothfish by-catch have been curtailed.

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. The $1,040 \mathrm{t}$ TAC was exceeded by 3.5 t in 2020, but since 57.6 t was carried forward from 2019, 54.2 t will be carried forward to 2021.

Highly variable recruitment has been characterised by high recruitment pulses, such as those that occurred during 2015 and 2017, largely supporting the shelf population thereafter. Low recruitment levels have characterised the shelf-based toothfish population between 2018 and 2020 (i.e. few age $0+$ fish and weak progressive cohorts of age-1, 2 and 3 year old fish, respectively). The drivers of this variability are not yet clearly understood, but are thought to largely be influenced by oceanographic and environmental factors. This suggests that careful monitoring may be required to ensure that bycatch levels do not exceed precautionary levels within the finfish and Doryteuthis trawl fisheries.

### 1.10 Rajidae - Skates

In 2020, 1,396.0 t of skate were caught in the Falklands Islands Conservation Zones. The total annual catch was the lowest since 1998, the second-lowest since skate catches were first recorded in 1989, and the fifth consecutive year of decrease. Target catch in 2020 decreased by 4 t from the year before, and non-target bycatch decreased by nearly 100 t from the year before. Approximately $2.3 \%$ of the 2020 total catch ( 32 t ) was harvested as target catch ( F licence), representing the lowest percentage of target catch since skate licences were issued in 1994. F-licence allocated days and utilized days increased in 2020 from the year before. The actual fishing effort also increased proportionally: in 202059 F-licence fishing days were taken out of 157 days allocated ( $37.6 \%$ licence utilization rate). By comparison, licence utilization rates were $<25 \%$ in $2018-2019,>50 \%$ in $2016-2017$, and $>95 \%$ as recently as 2015.

The 2020 target catch was taken by four Spanish-registered vessels averaging $43 \mathrm{~kg} / \mathrm{hr}$. Among the four vessels target effort and catch were strongly concentrated in October ( $55.9 \%$ of effort, $76.4 \%$ of catch) and November ( $37.3 \%$ of effort, $19.7 \%$ of catch). Each of these four vessels also held A, G and W finfish licences, which accounted for $91.3 \%$ of their aggregate fishing activity in 2020. Skate licence fishing was thus a minor activity for Spanish-registered vessels in 2020. These four F-licence vessels took $27.7 \%$ of the total skate bycatch under finfish licence, compared to the $31.3 \%$ 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, 582 t of skate were taken under A licence (increase of 38 t from the year before), 206 t under G licence (decrease of 117 t from the year before), and 515 t under W licence (increase of 6 t from the year before). Approximately $2.5 \%$ of aggregate finfish skate bycatch was reported discarded. Additionally 24 t of skate were caught in the $D$. gahi fishery, just slightly less than last year ( 25 t ). Twenty-four tonnes of skate were caught in the toothfish longline fishery, 7 t were caught under experimental licence (which included the D. gahi pre-season surveys, finfish surveys, and a toothfish live-capture trip), and 6 t were caught in the Illex fishery (all by trawl - none by jig. Skates caught in the longline fishery were almost entirely discarded ( $>97 \%$ ).

In all commercial fisheries, a total of 6,777 skates were identified to 15 species by observers on 21 vessels. In finfish-target trawls, three species represented at least $10 \%$ each of the sampled species composition by numbers: Broadnose Skate (Bathyraja brachyurops) (35\%), Yellownose Skate (Zearaja chilensis) (31\%), and White-spotted Skate (Bathyraja albomaculata) (11\%). By weight, three species represented a different combination of at least $10 \%$ : Z. chilensis ( $32 \%$ ), B. brachyurops (30\%), and the Graytail Skate (Bathyraja griseocauda) (13\%). In D. gahi trawls, B. brachyurops represented $63 \%$ of the sampled species composition by numbers, and Bathyraja macloviana $15 \%$; B. brachyurops represented $54 \%$ of the sampled species composition by weight and $B$. albomaculata $15 \%$ by weight. In the longline fishery Antarctic Starry Skate (Amblyraja georgiana) represented $67 \%$ of skate bycatch by numbers and $62 \%$ by weight; Whitemouth Skate (Bathyraja papilionifera) represented $28 \%$ of skate bycatch by numbers and $28 \%$ by weight. No observer cover had been assigned to skate-target trawls in 2020, given the low employment of that fishery for the second year in a row.

### 1.11 Patagonotothen ramsayi - Rock cod

Following the record low 2019 the 2020 catch fell further. The total catch of rock cod was 737 t . The largest catch was in the D. gahi fishery, with more than $50 \%$ of the total catch ( 407 t ). The $D$. gahi vessels discarded $99.9 \%$ of the catch. The average length of the rock cod on D. gahi trawlers was 15.49 cm . Finfish vessels (A, W and G- licenses) caught 315 t . The highest catch in the finfish targeting fleet was by the W licenced vessels with $254 \mathrm{t}, 30 \mathrm{t}$ were discards. Vessels fishing under G licences caught 42 t and discarded 13 t , whilst A-licensed vessels caught 18 t and discarded 13 t . The highest catch was in the first quarter when 468 t were caught, this decreased 104 t in the second quarter, then 149 t in the third quarter and finally 17 t in the last quarter.

### 1.12 Macrouridae - Grenadiers

There was neither a target fishery, nor a research cruise for grenadiers in 2020. Total annual catch of grenadiers was 609 t taken as by-catch during longline (53 t) and finfish ( 556 t ) fisheries. The long-liner catch reflected fishing effort, with low catches in the quarters with low effort. In the finfish fishery, the majority of the catch was in the first quarter. This reflected the increased effort in the first quarter in the southwest of the zone with vessels targeting hoki in deeper water. The trawl fishery was split between Macrourus spp. (generally M. carinatus, with few M. holotrachys) which made up $81 \%$ of the observed catch weight, whereas Coelorhynchus (Coelorhynchus fasciatus) made up $19 \%$ of the observed catch weight. The trawler fishery discarded 97 t from the 556 t caught. The longliner discarded 43 t from the catch of 53 t .

### 1.13 Zygochlamys patagonica - Patagonian scallop

No directed scallop fishery in Falkland Island waters occurred in 2020 although 1.5 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).

### 1.15 Paralomis granulosa - Snow crab

There is an experimental licence available for snow crabs; this was not used in 2020.

### 1.16 Others

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

## 2 Fisheries Department research cruises in 2020

In 2020, two research cruises were conducted by the Fisheries Department using the chartered fishing vessel Castelo.

### 2.1 Demersal biomass survey ZDLT1-02-2020

The regular ground fish survey was conducted from 2 to 22 February 2020 on board the F/V Castelo for the eighth time since 2010, every time concurrently with the first season "Loligo" prerecruitment survey. The first four trawl stations of the cruise were dedicated to surveying for juvenile toothfish in inshore waters in areas identified as recruitment areas. The remaining 80 stations were repeated from the 2018 survey. During the survey, a total of 54 t of biomass (representing 124 taxa) was caught. The most abundant species by weight was the squid I. argentinus (caught mostly to the north and northeast), followed by M. magellanicus and D. gahi.
It was found that the biomass of $P$. ramsayi has been decreasing at every groundfish survey since 2011; from an estimated high of $1,090,655 \mathrm{t}$ to an estimated low of $22,335 \mathrm{t}$ in 2020. This trend was reflected also from total catch of $P$. ramsayi during the demersal survey as catches decreased from 116 t in 2011 to 1.8 t in 2020. Illex argentinus biomass estimate during the cruise for 2020 $(148,023 \mathrm{t})$ was the second highest since $2015(253,660 \mathrm{t})$. Catches during the biomass survey reflected this with catches in 2020 equalling 17.9 t , the second-highest ever recorded during this survey, except for 2015 , when 31.7 t were caught. The warm water inflow into the northwest seems to have brought I. argentinus into Falkland waters in early February hence the good catches during the survey. Size of I. argentinus females was slightly smaller than last year (modal size of 24.5 cm in 2019 compared to 24.0 cm in 2020) with similar proportions of mature individuals (Stage V). Biomasses of the majority of finfish species had negative trends comparing with previous years.

### 2.2 Hake biomass and biological survey ZDLT1-07-2020

The hake survey was conducted aboard the $F / V$ Castelo from July $12^{\text {th }}$ to $27^{\text {th }}$ (15 fishing days). Overall, 45 trawl stations were conducted including high seas areas of $42^{\circ} \mathrm{S}$ and $45-47^{\circ} \mathrm{S}$.

The main objective of this research cruise was to collect biological data (length, sex, maturity, otoliths), genetic samples, and diet samples for common hake during its peak in abundance on the Patagonian Shelf. These data will be used to better understand the demography (age and length structure of the population, total mortality rate), genetic structure (stock discrimination, contribution of different stocks to Falkland Islands Fisheries) and feeding (ontogenetic shifts in diet, extent of feeding grounds for different stocks). Secondary objectives included: (1) collect biological data on other common commercial and bycatch species; (2) conduct an oceanographic survey
(pressure, temperature, conductivity, oxygen, fluorescence) of the study area; and (3) carry out trials of the new setup for deploying the Isaac-Kidd plankton net aboard the $F / V$ Castelo.

During the survey, a total of 50 t of biomass (representing 136 taxa) was caught from a total swept area of $9.33 \mathrm{~km}^{2}$. The most abundant species by weight was the common hake, followed by the squid D. gahi and congrid eels. The latter dominated catches at $42^{\circ} \mathrm{S}$, was relatively absent from the rest of the survey area, and all were discarded. Overall, the total catch of common hake was the only one to have exceeded 10 t .

Generally, hake was most abundant in Falkland waters within the "Hake Box" and just south of $51^{\circ} \mathrm{S}$ and in waters between 150 m and 400 m depths. Larger individuals of both sexes were found in deeper waters and further south in the FICZ than in other areas. The sex ratio of common hake was more skewed towards females in deeper waters than shallow waters. Additionally, hake in the high seas between $45^{\circ} \mathrm{S}$ and $46^{\circ} \mathrm{S}$ showed the presence of three distinct cohorts, including a greater abundance of individuals in the 20 cm to 30 cm range (females) than in other areas, depicting most likely the presence of younger fish at those stations relative to the FICZ. A greater proportion of spent females was observed on the High Seas at $42^{\circ} \mathrm{S}$ and a greater proportion of maturing/mature individuals was observed in the FICZ suggesting the presence of different stocks in our sample.

Opportunistic observations of stomach contents during this survey revealed a greater proportion of individuals feeding on $D$. gahi within the FICZ and a greater proportion of common hake feeding on myctophids (lanternfish), e.g. Gymnoscopelus nicholsi in the high seas. The detailed qualitative and quantitative analyses of stomach samples should address potential ontogenetic shifts in diet and variability in diet by common hake size, depth distribution, and areas of their feeding range.

## 3 Fisheries Department research contracts in 2020

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 2020 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 2019".

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

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

## 4 Seabird and marine mammal bycatch mitigation in the Falkland Islands

### 4.1 Longlining

Seabird bycatch mitigation measures implemented in the toothfish fishery have resulted in zero seabird hooking observed since 2005. During setting, bycatch mitigation strongly relies on the use of netted umbrellas (originally implemented to diminish orca and sperm whale depredation) that reduce seabird direct access to baited hooks; halting fish-processing discards that attract seabirds; and the use of a bird scaring line (tori line). During hauling seabird interactions with the fishing gear are mitigated by the absence of discards on the hauling side of the vessel and the use of several bird scaring streamers in surrounding the hauling bay (Brickle curtain). For the period July 2019 - June 2020 toothfish fishing occurred on 232 days, of which 92 (39.6\%) counted with observer coverage, with a total of 207 fishing events observed. Dedicated seabird and marine mammal observing effort was carried out for 25 stations (12\%), while random setting observations occurred on 90 fishing lines (43\%) (Table 1). A total of 2,117 light interactions were recorded with ACAP vulnerable seabird species ( 2,084 during setting; 11 during hauling). One black-browed albatross entanglement was recorded in the tori line, however the bird was safely freed alive by the deck boson. No seabird mortalities were recorded for the period.

### 4.2 Trawl fishery

### 4.2.1 Finfish

Between July 2019-June 2020, observations of seabird interactions with the demersal finfish fleet were conducted on 26 days, comprising an effective sampling effort of 99.94 h in 55 stations, which represents $1.94 \%$ of the fleet's total fishing day effort. Due the low observer coverage, no mortalities were observed. However, 48 "minor injury" contacts of ACAP-listed species were recorded ( 44 black-browed albatross, 3 wandering albatross, 1 giant petrel). These heavy interactions were all related to the warp cables and took place while the vessel was trawling and the factory was processing the catch (i.e. with discards attracting seabirds). The rate of contacts with unknown outcomes to real mortalities had been estimated to be approximately 3 to 1 (Parker et al., 2013). If we apply this rate to the 48 "minor injury" contacts observed, 16 of them could have resulted in actual mortalities. Extrapolating this value to the entire year finfish fishing effort, this would equate to 825 mortalities ( 759 black-browed albatross, 50 wandering albatross, 16 giant petrel) (Table 1). One giant petrel arrived on deck on top of the net and was safely released by crew. Several seal sightings were reported. Opportunistic seal observations involved South American sea lions following the vessel on several occasions (presumably foraging on discards) and directly eating from the net during hauling. South American fur seals were seen attending vessels during hauling on three occasions, being one individual caught alive and safely released by crew after cutting the net. Besides, on two occasions fur seals were seen following the vessel. Seal mortalities were neither recorded by the observers nor reported to FIFD by the vessels.

### 4.2.2 Falklands calamari

Since 2017 the Falklands calamari fishery has $100 \%$ marine mammal observer (MMO) coverage and requires the use of seal exclusion devices (SEDs) after two seal mortalities from the fishing of
the whole fleet. The MMO monitoring program is funded in partnership with fishing industry; MMOs monitor at least three trawls per day (i.e. shoot and haul) and record seal-gear interactions, behaviour, live SED escapees, live deck releases and incidental mortalities. In addition, MMOs dedicate one hour daily for bird scaring line (i.e. either tori lines or fixed aerial array) monitoring. The MMO monitoring program observed a total of 4,445 seal stations, covering $99 \%$ of the fleet's total fishing day effort. Bird scaring line monitoring comprised $1,376.3 \mathrm{~h}$ of gantry/stern deck observations during trawling.

FIFD Scientific Observers also continue to monitor the fishery, with dedicated seabird observations every fourth day. From July 2019 to June 2020, 76 seabird stations were monitored by FIFD observers, comprising 130.75 h of effort, which equals to $1.94 \%$ of the fleet's total fishing day effort. Neither mortalities nor "minor injury" contacts were recorded by the observers; however 4 black-browed albatross were caught during hauling ( 2 inside the SED, 2 in the net wings), being safely released alive.

Bycatch of ACAP-listed species included 40 individuals ( 35 black-browed albatross, 3 whitechinned petrel, 2 giant petrel), of which seven were released alive and 33 were mortalities ( 31 black-browed albatross, 2 white-chinned petrel). The breakdown of mortalities were $61 \%$ netrelated, $28 \%$ involved warp cables and trawl doors, and $8 \%$ resulted from entanglements in the bird scaring lines (i.e. orange semi-flexible streamers). Taking into account Parker et al. (2013) cryptic mortality factor, the estimation of seabird mortalities for the year in this fishery are 99 seabirds ( 93 black-browed albatross, 6 white-chinned petrel) (Table 1). There were 6,567 seals sighted ( $70 \%$ South American fur seal, 20\% South American sea lion, $10 \%$ unknown species), with 35 SED escapees observed during hauling and eight live deck releases. The amount of SED escapees during shooting remains unknown. Twelve seal mortalities were recorded (7 South American fur seal, 5 South American sea lion), of which six occurred pre-SED implementation. Of the post-SED mortalities, three occurred during shooting (i.e. SED escape passage was blocked due to reduced tension in the net while manoeuvring); two happened after propeller contact; and the last corresponded to a carcass in decomposition.

### 4.2.3 Skate

No observations were carried out on the 16 skate fishing effort days for the period.

### 4.2.4 Illex Trawling

During 202024 stations were monitored within 12 seabird days, comprising 53.6 h of effort, which equals to $2.3 \%$ of the Illex bottom-trawling total fishing day effort. Seven black-browed albatross mortalities were observed. All the mortalities were related to trawling, being four carcasses found in the trawl doors; one seen submerging after attaching to the warp cable (presumably entangled in a warp splice); one attached to the warp cable and killed upon reaching the pulley; one entangled in the tori line buoy. If extrapolated to the total fishing effort carried out within the year ( 506 fishing days), mortalities would equate to 295 individuals. Added to these mortalities eight black-browed albatross "minor injury" contacts were recorded, seven with warp cables and one with the bird scaring line. Applying Parker et al. (2013) factor for cryptic mortality, 2.66 of the observed contacts could have resulted in actual mortalities. Extrapolating this "minor injury" value to the fishing effort, this would equate to a further 112 black-browed albatross mortalities. After
adding the estimated observed mortalities and the estimated "minor injury" contacts, the total estimated black-browed albatross mortality for the period is 407 individuals (Table 1).
Table 1. Observer coverage and ACAP-listed seabird species estimates of mortality per fleet.

| Longlining |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Effort (stations) | Effort (h) | Fleet coverage <br> $(\%)$ | 'minor injury' <br> contacts | $\mathrm{N}^{\text {o mortalities }}$ <br> observed | Estimated mor- <br> talities |
| 25 | NA | 12 | 0 | 0 | Negligible |
| Finfish |  |  |  |  |  |
| 55 | 99.94 | 1.94 | 48 | 0 | $825^{*}$ |
| Falklands calamari |  |  |  |  |  |
| 4,521 | $1,507.05$ | 99 | 0 | 33 | 99 |
| Illex (bottom-trawling) |  |  |  | 7 |  |
| 24 | 53.6 | 2.3 | 8 | $407^{* *}$ |  |
| Total mortalities: |  |  | 1,331 |  |  |
| *Recorded outside seabird dedicated days; not used in mortality estimation. <br> ** Precautionary number, calculated based on observed possible minor injury contacts. |  |  |  |  |  |

As cryptic events like seabird mortalities cannot be detected with low observing effort ( $<4 \%$; Parker et al., 2013), an accurate estimation of mortalities for the finfish fleet cannot be made. However, possible minor injury contacts were used as a mortality proxy, being seabird mortality numbers in finfish fully precautionary.

### 4.3 Improvements to seabird and marine mammal mitigation

### 4.3.1 Fixed aerial array (FAA)

Up to June 2020, 13 vessels of the calamari fleet had an avian deterent devices fitted on their stern, entailinging the use of five different FAA models. Ten of the vessels had an FAA, based on the original 2012 model -with parallel booms- mounted above the warp cables, while three had been fitted with the 2016 model -with spread booms. It was noted that the performance of the latter is better, as streamers are less prone to entanglement in the warp cables. This translates in less crew maintenance requirements (i.e. streamer cleaning, repair, and replacement) and more efficiency to maintain the warp cable dangerous zone protected under crossed winds, particularly if using red semi-flexible weighted streamers.

### 4.3.2 Discard management

A total of 12 trawlers ( 9 calamari, 3 finfish) had been fitted with discard storage tanks. Although bird presence during trawling has reduced, an increment in net interactions has been particularly detected in the calamari fishery. Several discard storage tank problems were noticed regarding waste input and tank discharge mechanism.

### 4.4 Compliance

Although bycatch mitigation regulations began in 2012 and intensive efforts had been carried out
while working closely with the trawl fleet, observer reports indicate compliance might be poor, particularly when no observer is aboard. Lack of bird scaring line maintenance (i.e. covered in oil) was observed in two vessels targeting Illex and in one calamari vessel. Also the presence of warp splices was confirmed for at least one calamari trawler, with splices being closely related to seabird warp mortalities.

### 4.4.1 Discarding regulations

Non-compliance events to discard regulations were recorded across the trawl fleet. Discarding during manoeuvres (shoot, turn, haul) were observed during three finfish trips, during two trips targeting Illex, and in one calamari vessel that regularly failed to close the discard storage tank's chute.

### 4.4.2 Net cleaning

Poor or absence of net cleaning was recorded in two finfish and one Illex trips. Although net cleaning can vary regarding weather conditions and bycatch, overall compliance in the calamari fishery was fair, except for one particular vessel in which net cleaning was poor. These low standards are quite worrying, as seabird net entanglements in the calamari fleet are currently high.

## Reference

Parker, G., Crofts, S., Pompert, J., Wolfaardt, A., Brickle, P. (2013). In the wake of a factory trawler: research into undetected seabird mortality. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 25p.

## 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 occurring in the FICZ/FOCZ and, opportunistically, on the high seas surrounding the Falkland Islands waters. Observers also take part in the research cruises conducted regularly by the FIFD and participate in various scientific projects on land according to the needs of the scientists of the FIFD. 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 (2017-2020) is summarized in Table 2. COVID19 preventive measures caused logistical issues regarding observer deployments; however FIFD managed to secure continuous collection of biological data throughout the fleets. There has been a net percent-age-increase in both, FIFD observer coverage and the amount of data collected in 2020 in comparison with 2019. In addition to coverage of FIFD observers, external observers were mandated on the fleet fishing for Falkland calamari under C - and X -licence same as in previous years. This year, the fishing effort of trawlers targeting mainly finfish under $\mathrm{A}-, \mathrm{G}-$ and W -licence has decreased by $8.6 \%$. Fishing effort of jiggers targeting Illex has been increased compared to 2019 and is comparable with 2017 and 2018 seasons. Skates-targeting trawler effort ( F - licence) has been low; as F-licence effort has been used by vessels only on punctual basis - hence the poverty of observer coverage for this fishery in last years. Finally, the longliner (L-licence) fishing effort has stayed comparable to those of previous years, as it has been the case for observer coverage which
shown a slight increase in terms of percentage and remained close to the target of $50 \%$ of coverage.
Table 2 - Observer coverage for 2017-2020 FICZ / FOCZ

|  | 2017 |  |  | 2018 |  |  | 2019 |  |  | 2019 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Licence | Fishing <br> Days | Obs <br> days | Fishing <br> Days | Obs <br> days | Fishing <br> Days | Obs <br> days | Fishing <br> Days | Obs <br> days |  |  |  |  |
| A/G/W | 1770 | 241 | $13.6 \%$ | 1678 | 236 | $14.1 \%$ | 2176 | 171 | $7.9 \%$ | 1989 | 203 | $10 / 2 \%$ |
| B | 6057 | 86 | $1.4 \%$ | 7440 | 51 | $0.7 \%$ | 6424 | 69 | $1.1 \%$ | 7298 | 77 | $1.1 \%$ |
| C/X | 1997 | 282 | $14.1 \%$ | 1952 | 173 | $8.9 \%$ | 1589 | 134 | $8.4 \%$ | 2005 | 185 | $9.2 \%$ |
| F | 133 | 26 | $19.5 \%$ | 64 | 7 | $10.9 \%$ | 27 | - | - | 59 | - | - |
| L | 192 | 106 | $55.5 \%$ | 185 | $123^{*}$ | $66.5 \%^{*}$ | 206 | 96 | $46.6 \%$ | 196 | 96 | 49.0 |
| S | 0 | 0 | $0 \%$ | 4 | 0 | $0 \%$ | 0 | - | - | 0 | - | - |
| E surveys | 91 | $91 * *$ | $100 \%$ | 65 | $65^{* *}$ | $100 \%$ | 69 | 69 | $100 \%$ | 69 | 69 | $100 \%$ |
| Totals | 10240 | 832 | $8.1 \%$ | 11388 | 655 | $5.8 \%$ | 10522 | 539 | $5.1 \%$ | 11616 | 630 | $5.4 \%$ |

*Observed day numbers include two tagging trips. The actual observed days and percentage of coverage were 105 d and $56.6 \%$, respectively.
**As several observers are embarked simultaneously on the same research cruises, the real number of observer days for E-licence was 153 d in 2020.
***Observers spent additional 21 days sampling on trawlers on high seas, outside FICZ/FOCZ

In 2020, there were 30 observer trips on commercial vessels, two Falkland calamari D. gahi prerecruitment surveys and three research cruises. Table 3 provides an updated four year summary of individual specimens sampled for size/ sex/maturity and optionally weight/otoliths/statoliths. Four-

|  | $\begin{aligned} & 2017- \\ & 2020 \end{aligned}$ | \% | 2017 | \% | 2018 | \% | 2019 | \% | 2020 | \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Doryteuthis gahi | 376,337 | 35.31\% | 142,588 | 38.22\% | 73,471 | 31.18\% | 68,606 | 35.15\% | 91,672 | 34.99\% |
| Patagonotothen ramsayi | 183,082 | 17.18\% | 70,927 | 19.01\% | 40,898 | 17.35\% | 31,014 | 15.89\% | 40,243 | 15.36\% |
| Merluccius hubbsi | 117,814 | 11.05\% | 27,783 | 7.45\% | 25,637 | 10.88\% | 25,127 | 12.87\% | 39,268 | 14.99\% |
| Illex argentinus | 88,542 | 8.31\% | 27,535 | 7.38\% | 22,988 | 9.75\% | 14,823 | 7.59\% | 23,196 | 8.85\% |
| Dissostichus eleginoides | 48,295 | 4.53\% | 24,644 | 6.61\% | 11,245 | 4.77\% | 4,851 | 2.49\% | 7,555 | 2.88\% |
| Salilota australis | 33,780 | 3.17\% | 9,892 | 2.65\% | 6,590 | 2.80\% | 7,516 | 3.85\% | 9,797 | 3.74\% |
| Genypterus blacodes | 30,447 | 2.86\% | 4,566 | 1.22\% | 4,816 | 2.04\% | 5,911 | 3.03\% | 15,154 | 5.78\% |
| Macruronus magellanicus | 24,168 | 2.27\% | 7,028 | 1.88\% | 7,330 | 3.11\% | 4,520 | 2.32\% | 5,290 | 2.02\% |
| Bathyraja brachyurops | 21,576 | 2.02\% | 8,836 | 2.37\% | 6,561 | 2.78\% | 2,992 | 1.53\% | 3,187 | 1.22\% |
| Bathyraja albomaculata | 13,675 | 1.28\% | 7,335 | 1.97\% | 2,558 | 1.09\% | 3,280 | 1.68\% | 502 | 0.19\% |
| Coelorinchus fasciatus | 11,675 | 1.10\% | 2,380 | 0.64\% | 4,676 | 1.98\% | 1,901 | 0.97\% | 2,719 | 1.04\% |
| Stromateus brasiliensis | 10,219 | 0.96\% | 854 | 0.23\% | 383 | 0.16\% | 3,747 | 1.92\% | 5,235 | 2.00\% |
| Macrourus holotrachys | 10,092 | 0.95\% | 1,276 | 0.34\% | 1,995 | 0.85\% | 3,105 | 1.59\% | 3,716 | 1.42\% |
| Micromesistius australis | 10,041 | 0.94\% | 4,176 | 1.12\% | 3,494 | 1.48\% | 1,237 | 0.63\% | 1,134 | 0.43\% |
| Zearaja chilensis | 9,259 | 0.87\% | 2,194 | 0.59\% | 4,756 | 2.02\% | 1,102 | 0.56\% | 1,207 | 0.46\% |
| Amblyraja doellojuradoi | 8,074 | 0.76\% | 2,767 | 0.74\% | 2,077 | 0.88\% | 3,008 | 1.54\% | 222 | 0.08\% |
| Champsocephalus esox | 7,926 | 0.74\% | 6,433 | 1.72\% | 686 | 0.29\% | 206 | 0.11\% | 601 | 0.23\% |
| Macrourus carinatus | 7,635 | 0.72\% | 1,677 | 0.45\% | 1,623 | 0.69\% | 2,785 | 1.43\% | 1,550 | 0.59\% |
| Bathyraja macloviana | 7,411 | 0.70\% | 2,276 | 0.61\% | 2,923 | 1.24\% | 1,642 | 0.84\% | 570 | 0.22\% |

year totals of less than 150 specimens per species were grouped into "Others".

|  | $\begin{array}{\|l} 2017- \\ 2020 \end{array}$ |  | 2017 \% |  | 2018 \% |  | 2019 \% |  | 2020 \% |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bathyraja griseocauda | 6,553 | 0.61\% | 2,726 | 0.73\% | 1,210 | 0.51\% | 2,213 | 1.13\% | 404 | 0.15\% |
| Antimora rostrata | 5,042 | 0.47\% | 743 | 0.20\% | 1,186 | 0.50\% | 1,073 | 0.55\% | 2,040 | 0.78\% |
| Cottoperca gobio | 3,625 | 0.34\% | 1,865 | 0.50\% | 663 | 0.28\% | 638 | 0.33\% | 459 | 0.18\% |
| Patagonotothen tessellata | 3,173 | 0.30\% | 1,308 | 0.35\% | 142 | 0.06\% | 349 | 0.18\% | 1,374 | 0.52\% |
| Bathyraja scaphiops | 3,120 | 0.29\% | 1,278 | 0.34\% | 908 | 0.39\% | 779 | 0.40\% | 155 | 0.06\% |
| Notophycis marginata | 2,915 | 0.27\% | 408 | 0.11\% | 2,401 | 1.02\% | 104 | 0.05\% | 2 | 0.01\% |
| Schroederichthys bivius | 2,738 | 0.26\% | 152 | 0.04\% | 59 | 0.03\% | 456 | 0.23\% | 2,071 | 0.79\% |
| Bathyraja cousseauae | 2,413 | 0.23\% | 1,099 | 0.29\% | 364 | 0.15\% | 742 | 0.38\% | 208 | 0.08\% |
| Psammobatis spp. | 1,704 | 0.16\% | 193 | 0.05\% | 880 | 0.37\% | 311 | 0.16\% | 320 | 0.12\% |
| Sprattus fuegensis | 950 | 0.09\% | 685 | 0.18\% | 207 | 0.09\% | 17 | 0.01\% | 41 | 0.02\% |
| Onykia ingens | 920 | 0.09\% | 109 | 0.03\% | 733 | 0.31\% | 3 | 0.01\% | 75 | 0.03\% |
| Bathyraja multispinis | 894 | 0.08\% | 302 | 0.08\% | 351 | 0.15\% | 171 | 0.09\% | 70 | 0.03\% |
| Gymnoscopelus nicholsi | 886 | 0.08\% | 757 | 0.20\% | 100 | 0.04\% | 16 | 0.01\% | 13 | 0.01\% |
| Squalus acanthias | 878 | 0.08\% | 35 | $<0.01$ | 103 | 0.04\% | 162 | 0.08\% | 578 | 0.22\% |
| Patagolycus melastomus | 567 | 0.05\% | 445 | 0.12\% | 122 | 0.05\% | 0 | - | 0 | - |
| Merluccius australis | 556 | 0.05\% | 289 | 0.08\% | 139 | 0.06\% | 67 | 0.03\% | 61 | 0.02\% |
| Seriolella porosa | 494 | 0.05\% | 65 | 0.02\% | 30 | 0.01\% | 295 | 0.15\% | 104 | 0.04\% |
| Sebastes oculatus | 470 | 0.04\% | 189 | 0.05\% | 78 | 0.03\% | 97 | 0.05\% | 106 | 0.04\% |
| Pseudocyttus maculatus | 455 | 0.04\% | 434 | 0.12\% | 20 | 0.01\% | 1 | 0.01\% | 0 | - |
| Bathyraja magellanica | 319 | 0.03\% | 208 | 0.06\% | 32 | 0.01\% | 34 | 0.02\% | 45 | 0.02\% |
| Allothunnus fallai | 312 | 0.03\% | 135 | 0.04\% | 138 | 0.06\% | 7 | 0.01\% | 32 | 0.01\% |
| Congiopodus peruvianus | 304 | 0.03\% | 103 | 0.03\% | 199 | 0.08\% | 0 | - | 2 | 0.01\% |
| Iluocoetes/Patagolycus | 216 | 0.02\% | 209 | 0.06\% | 6 | 0.01\% | 0 | - | 1 | 0.01\% |
| P. guntheri | 211 | 0.02\% | 179 | 0.05\% | 0 | - | 0 | - | 32 | 0.01\% |
| Amblyraja georgiana | 201 | 0.02\% | 76 | 0.02\% | 38 | 0.02\% | 28 | 0.01\% | 59 | 0.02\% |
| Zearaja argentinensis | 186 | 0.02\% | 46 | 0.01\% | 95 | 0.04\% | 40 | 0.02\% | 5 | 0.01\% |
| Cottunculus granulosus | 150 | 0.01\% | 63 | 0.02\% | 83 | 0.04\% | 0 | - | 4 | 0.01\% |
| Others | 5,577 | 0.52\% | 3,780 | 1.01\% | 675 | 0.29\% | 204 | 0.10\% | 918 | 0.35\% |
| Total | 1,065,877 |  | 373,048 |  | 235,669 |  | 195,180 |  | 261,997 |  |

Table 3 - Fish, squid, skate and invertebrate specimens sampled by observers \& scientists

## 6 Fishing Effort and Catch Limits

Total Allowable Effort (TAE) and Total Allowable Catch (TAC) were set and published by the FIG Fisheries Department for the 2021 calendar year.

## 7 Participation in Scientific Workshops, Conferences and Symposia in 2020

Due to COVID19 pandemic travel restrictions, no-one from the Fisheries Department attended any scientific meeting in 2020.

# 8 Publications from scientific work carried out in FIG Fisheries Department in 2020 (or in collaboration with FIG personnel) 

### 8.1 Peer-reviewed publications (appeared in 2020)

Arkhipkin, A.I., Hendrickson, L., Payá, I., Pierce, G.J., Roa-Ureta, R., Robin, J.P., Winter, A. 2020. Stock assessment and management of cephalopods: advances and challenges for shortlived fishery resources. ICES Journal of Marine Science, doi: 10.1093/ icesjms/fsaa038.

Bradley, K.A., Arkhipkin, A.I. 2020. Age and growth of slender tuna (Allothunnus fallai) in an unexploited temperate population. Journal of Fish Biology, 97(4): 1257-1261.

Brewin, P.E., Farrugia, T.J., Jenkins, C., Brickle, P. 2020. Straddling the line: high potential impact on vulnerable marine ecosystems by bottom-set longline fishing in unregulated areas beyond national jurisdiction. ICES Journal of Marine Science, doi: 10.1093/ icesjms/ fsaa106.

Busbridge, T.A.J., Marshall, C.T., Arkhipkin, A.I., Shcherbich, Z., Marriott, A.L., Brickle, P. 2020. Can otolith microstructure and elemental fingerprints elucidate the early life history stages of the gadoid southern blue whiting (Micromesistius australis australis)? Fisheries Research, 228: 105572.

Iriarte, V., Arkhipkin, A., Blake, D. 2020. Implementation of exclusion devices to mitigate seal (Arctocephalus australis, Otaria flavescens) incidental mortalities during bottom-trawling in the Falkland Islands (Southwest Atlantic). Fisheries Research, 227: 105537.

Maureaud, A., Frelat, R., Pécuchet, L., Shackell, N., Mérigot, B., Pinsky, M.L., Amador, K., Anderson, S.C., Arkhipkin, A., Auber, A., Barri, I., Bell, R., Belmaker, J., et al. 2020. Are we ready to track climate-driven shifts in marine species across international boundaries? - A global survey of scientific bottom trawl data. Global Change Biology, 27(2): 220-236.

### 8.2 Technical reports

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Iriarte V. 2020. LOL 2020-C MMO Monitoring Report. Tech. Rep. FIG Fish. Dept., Stanley, Falkland Islands. 20 pp .

Lee, B., Shcherbich, Z., Randhawa, H. 2020. Towards the development of an ageing strategy for finfish in the Falkland Islands trawl fisheries. AGE-2020-FIN. Tech. Rep.FIG Fisheries Dept., Stanley, Falkland Islands. 24 pp.

Lee, B., Skeljo. 2020. Patagonian Toothfish Tag-recapture Program Update Report: June 2016 July 2020. TAG-2020-TOO. Tech. Rep.FIG Fisheries Dept., Stanley, Falkland Islands. 16 pp.

Lee, B. 2020. Age structure for Patagonian toothfish Dissostichus eleginoides from Falkland Island waters: January - December 2017. Tech. Rep.FIG Fisheries Dept., Stanley, Falkland Islands. 18 pp .

Lee, B. 2020. Age structure for Patagonian toothfish Dissostichus eleginoides from Falkland Island waters: January - December 2018. Tech. Rep.FIG Fisheries Dept., Stanley, Falkland Islands. 18 pp .

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Lee, B. 2020. Age structure for Rock cod Patagonotothen ramsayi from Falkland Island waters: January - December 2015. Tech. Rep.FIG Fisheries Dept., Stanley, Falkland Islands. 15 pp.

Lee, B. 2020. Age structure for Rock cod Patagonotothen ramsayi from Falkland Island waters: January - December 2016. Tech. Rep.FIG Fisheries Dept., Stanley, Falkland Islands. 15 pp.

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Ramos, J.E., Skeljo, F., Winter, A. 2020. Stock assessment of southern blue whiting (Micromesistius australis australis) in the Falkland Islands. SA-2020-BLU. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 38 pp.

Ramos, J.E., Winter, A. 2020. February trawl survey biomasses of fishery species in Falkland Islands waters, 2010-2020. SA-2020-04. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 58 pp .

Randhawa, H.S., Goyot, L., Blake, A., Ramos, J.E., Roberts, G., Brewin, J., Evans, D. 2020. Cruise Report ZDLT1-02-2020: 2020 Demersal Biomass Survey. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 97 pp.

Randhawa, H.S., Blake, A., Trevizan, T., Brewin, J., Evans, D., Kairua, T., Büring, T. (2020). Cruise Report ZDLT1-07-2020: 2020 Hake Demography Survey. Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 135 pp.

Skeljo, F. 2020. Fisheries Report CF-2019-LLB: Bycatch conversion factor analysis in Patagonian toothfish longline fishery (2009-2019). Tech. Rep. FIG Fisheries Dept., Stanley, Falkland Islands. 7 p .
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Alexander Arkhipkin (Editor), sections 1.1-1.3; 2; 3; 6; 7; 8
Alex Blake, sections 1.11-1.16
Verónica Iriarte, section 4
Jorge Ramos, sections 1.4-1.5; 1.7
Frane Skeljo: sections 1.8-1.9
Toni Trevisan: section 5
Andreas Winter, sections 1.2; 1.6; 1.10.

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


## Introduction

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

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

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

| FIFD Code | FAO Code | Scientific name | Common name |
| :--- | :--- | :--- | :--- |
| BAC | SAO | Salilota australis | Red cod |
| BLU | POS | Micromesistius australis | Southern blue whiting |
| COX** | PAT | Patagonotothen spp | Rock cod |
| GRX** $^{* *}$ | RTX | Macrouridae | Grenadiers |
| HAK*** | HKP | Merluccius hubbsi | Common hake |
| KIN | CUS | Genypterus blacodes | Kingclip |
| ILL | SQA | Illex argentinus | Illex squid |
| LOL | SQP | 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 $\operatorname{these~statistics~and~Taiwan~as~}$ | 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 1989-2019

| Licence |  | Target species Period of application |
| :--- | :--- | :--- |
| First Season |  |  |
|  |  |  |
| A | Unrestricted finfish | $1989-2007$ |
| B | Illex squid | $1989-1992$ |
|  | Illex and Martialia squid | $1993-$ |
| C | Falkland Calamari (Loligo) | $1989-$ |
| F | Skates and rays | $1995-2007$ |
| W | Illex squid and restricted finfish* | $1997-$ |
|  | Restricted finfish** | $1994-2007$ |
| Second Season |  |  |
|  |  |  |
| R |  |  |
| X | Skate and rays | $1994-2007$ |
|  | All species | $1989-1990$ |
| Y | Falkland Calamari (Loligo) | $1991-$ |
| Z | Unrestricted finfish | $1989-2007$ |
|  | Restricted finfish** | $1989-2007$ |
| All year |  |  |
|  |  | Unrestricted finfish |

* 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

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Southern Cross Ltd．
Seaview Ltd． Seafish（Falklands）
Ltd．
RBC Ltd．
Pioneer Seafoods


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CFL
Byron Fishing Ltd
Bold Ventures Ltd
Beauchene Fishing
Co．Ltd．
Argos Group Ltd．
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## Licences

Table B. 1 Licence allocations by licence type and year

| LICENCE | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | 40 | 33 | 17 | 13 | 4 | 10 | 5 | 5 | 4 | 9 | 11 |
| B | 161 | 144 | 170 | 165 | 156 | 164 | 120 | 113 | 92 | 79 | 86 |
| C | 46 | 38 | 16 | 20 | 21 | 22 | 17 | 19 | 15 | 14 | 17 |
| E | 8 | 5 | - | 2 | 1 | 6 | 6 | 5 | 6 | 9 | 8 |
| F | - | - | - | - | - | - | 4 | 5 | - | - | - |
| G | - | - | - | - | - | - | - | - | 19 | 27 | 30 |
| L | - | - | - | - | - | - | - | - | - | - | - |
| R | - | - | - | - | - | 9 | 10 | 11 | 10 | 2 | 8 |
| S | - | - | - | - | - | - | - | - | - | - | 2 |
| W | - | - | 11 | 16 | 14 | 30 | 29 | 28 | 9 | 16 | 21 |
| X | 23 | 20 | 19 | 23 | 30 | 27 | 23 | 24 | 21 | 20 | 18 |
| Y | 70 | 17 | 15 | 6 | 5 | 10 | 9 | 6 | 11 | 8 | 8 |
| $\underline{\mathbf{Z}}$ | 24 | 35 | 40 | 46 | 43 | 47 | 60 | 43 | 36 | 27 | 34 |
|  | 372 | 292 | 288 | 291 | 274 | 325 | 283 | 259 | 223 | 211 | 243 |
| LICENCE | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
| A | 10 | 6 | 6 | 6 | 8 | 9 | 11 | 11 | 23 | 21 | 22 |
| B | 109 | 116 | 125 | 122 | 90 | 71 | 43 | 56 | 44 | 21 | 76 |
| C | 17 | 16 | 17 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 18 |
| E | 5 | 1 | 1 | 8 | 8 | 12 | 8 | 6 | 4 | 7 | 5 |
| F | 4 | 1 | 9 | 4 | 7 | 4 | - | 1 | 8 | 8 | 8 |
| G | 16 | 19 | 19 | 24 | 17 | 12 | 20 | 18 | 23 | 27 | 23 |
| L | 3 | 6 | 6 | 8 | 5 | 4 | 6 | 6 | 2 | 1 | 1 |
| R | 7 | 9 | 8 | 10 | 11 | 11 | 11 | 10 | - | - | - |
| S | 3 | 3 | 4 | 3 | 4 | 2 | 2 | 2 | 3 | 4 | 3 |
| W | 11 | 13 | 10 | 23 | 25 | 17 | 21 | 14 | 27 | 30 | 30 |
| X | 15 | 19 | 17 | 18 | 18 | 16 | 16 | 17 | 19 | 18 | 17 |
| Y | 4 | 8 | 8 | 12 | 9 | 12 | 16 | 18 | - | - | - |
| $\underline{\mathbf{Z}}$ | 27 | 18 | 18 | 22 | 23 | 18 | 24 | 25 | - | - | - |
|  | 231 | 235 | 248 | 276 | 241 | 204 | 194 | 200 | 170 | 154 | 203 |
| LICENCE | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |  |
| A* | 29 | 29 | 31 | 29 | 26 | 22 | 28 | 27 | 20 | 29 |  |
| B | 94 | 100 | 99 | 106 | 106 | 104 | 106 | 109 | 106 | 106 |  |
| C | 17 | 18 | 17 | 17 | 16 | 17 | 18 | 17 | 16 | 16 |  |
| E | 5 | 6 | 8 | 5 | 8 | 4 | 13 | 6 | 5 | 6 |  |
| F** | 7 | 8 | 8 | 8 | 8 | 8 | 7 | 6 | 5 | 7 |  |
| G | 25 | 25 | 25 | 22 | 21 | 22 | 18 | 18 | 17 | 18 |  |
| L | 1 | 1 | 2 | 2 | 1 | 1 | 3 | 1 | 1 | 1 |  |
| S | 1 | 3 | 1 | 1 | 1 | 1 | - | 1 | - | - |  |
| W*** | 27 | 25 | 28 | 26 | 28 | 26 | 22 | 24 | 25 | 22 |  |
| X | 17 | 16 | 16 | 17 | 16 | 17 | 16 | 17 | 17 | 17 |  |
|  | 223 | 231 | 235 | 233 | 231 | 222 | 231 | 226 | 212 | 222 |  |

*     - A + Y since $2008^{* *}$ - F + R since $2008^{* * *}$ - W + Z since 2008


## Licences

Table B. 2 Licence allocations by fishing fleet and year

| FISHING <br> FLEET | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | - | - | - | - | - | - | - | - | - | 3 | 3 | - | - | - | - | - |
| BG | 9 | 14 | 8 | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - |
| BZ | - | - | - | - | - | - | 1 | - | - | - | 2 | 5 | 2 | 1 | 3 | 1 |
| CB |  |  |  |  |  |  |  |  |  |  |  | 2 | 1 | 1 | 1 | 1 |
| CL | 1 | 1 | - | 3 | 2 | 8 | 8 | 4 | 3 | 2 | 3 | 1 | 1 | 1 | 1 | 2 |
| CN | - | - | - | - | - | - | - | - | - | 2 | 4 | 9 | 20 | 25 | 21 | 7 |
| EE | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |
| ES | 99 | 72 | 66 | 74 | 74 | 108 | 100 | 69 | 52 | 64 | 76 | 41 | 45 | 48 | 46 | 48 |
| FK | 7 | 4 | 2 | 3 | 3 | 8 | 19 | 37 | 32 | 43 | 49 | 47 | 55 | 48 | 80 | 71 |
| 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 | 7 |
| KR | 30 | 32 | 42 | 55 | 60 | 86 | 105 | 112 | 98 | 48 | 71 | 84 | 67 | 70 | 62 | 59 |
| NA | - | - | - | - | - | - | - | - | 3 | 1 | 2 | - | - | - | - | 2 |
| NL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NO | - | 2 | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - |
| NZ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| PA | - | - | 5 | 4 | 3 | 3 | 2 | 3 | 1 | 1 | 2 | - | - | 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 | 34 |
| UK | 11 | 1 | 1 | - | 1 | 3 | 2 | 5 | 3 | 3 | 5 | 3 | 3 | 3 | 4 | 4 |
| UR | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| US | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| UY |  |  |  |  |  |  |  |  |  |  |  | - | 1 | 1 | 2 | 2 |
| VC |  |  |  |  |  |  |  |  |  |  |  | - | 1 | - | - | - |
|  | 372 | 292 | 288 | 291 | 274 | 325 | 283 | 259 | 223 | 211 | 243 | 231 | 235 | 248 | 276 | 241 |

## Licences

Table B. 2 Licence allocations by fishing fleet and year

| FISHING <br> FLEET | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BZ | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CB | - | - | - | - | - | 1 | 1 | 2 | 1 | - | - | - | - | - | - | - |
| CL | - | 1 | 2 | 1 | - | 1 | - | - | - | 2 | - | - | 2 | - | - | - |
| CN | 3 | 2 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| DE | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| EE | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ES | 36 | 59 | 65 | 59 | 61 | 55 | 61 | 63 | 67 | 64 | 64 | 59 | 54 | 52 | 48 | 52 |
| FK | 73 | 69 | 62 | 54 | 55 | 58 | 58 | 57 | 60 | 52 | 52 | 49 | 61 | 60 | 53 | 60 |
| GH | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| JP | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | - | - | - | - |
| KR | 43 | 42 | 41 | 38 | 21 | 34 | 35 | 35 | 36 | 36 | 35 | 32 | 32 | 32 | 30 | 29 |
| NA | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NZ | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PA | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RU | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| SH | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - |
| SL | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - |
| TW | 34 | 10 | 19 | 13 | 8 | 45 | 61 | 67 | 65 | 71 | 71 | 73 | 73 | 75 | 73 | 75 |
| UK | 6 | 4 | 4 | 4 | 6 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 5 | 3 | 4 | 4 |
| UY | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| VU | 2 | - | - | - | - | 1 | 2 | - | 2 | 4 | 4 | 4 | 4 | 4 | 4 | 2 |
|  | 204 | 194 | 200 | 170 | 154 | 203 | 223 | 231 | 235 | 233 | 231 | 221 | 231 | 226 | 212 | 222 |

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

| FISHING FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 15 | 17 | 19 | 17 | 15 | 14 | 17 | 16 | 12 | 18 |
| FK | 12 | 11 | 11 | 11 | 10 | 7 | 10 | 10 | 7 | 10 |
| KR | 1 | - | - | - | - | - | - | - | - | - |
| UK | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|  | $\mathbf{2 9}$ | $\mathbf{2 9}$ | $\mathbf{3 1}$ | $\mathbf{2 9}$ | $\mathbf{2 6}$ | $\mathbf{2 2}$ | $\mathbf{2 8}$ | $\mathbf{2 7}$ | $\mathbf{2 0}$ | $\mathbf{2 9}$ |

## Licences

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

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

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

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

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

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

## Licences

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

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

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

| FISHING FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 18 | 21 | 21 | 20 | 20 | 18 | 16 | 15 | 15 | 13 |
| FK | 7 | 4 | 4 | 2 | 1 | 4 | 2 | 3 | 2 | 5 |
|  | $\mathbf{2 5}$ | $\mathbf{2 5}$ | $\mathbf{2 5}$ | $\mathbf{2 2}$ | $\mathbf{2 1}$ | $\mathbf{2 2}$ | $\mathbf{1 8}$ | $\mathbf{1 8}$ | $\mathbf{1 7}$ | $\mathbf{1 8}$ |

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

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

## Licences

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

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

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

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

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

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

## 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 |
| $\mathbf{B}$ | $22,723,027$ | $20,698,011$ | $20,961,399$ | $20,865,023$ | $14,301,237$ | $17,440,342$ | $10,867,548$ | $12,176,224$ |
| C | $4,028,578$ | $5,077,665$ | $3,286,308$ | $2,904,346$ | $3,558,704$ | $3,305,953$ | $3,473,536$ | $3,915,269$ |
| E | 3,000 | 1,000 | - | 12,308 | 12,303 | 163,607 | 196,725 | 107,022 |
| 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 | $1,222,974$ | $1,207,635$ | $1,335,812$ | $1,920,068$ | $1,536,543$ |
|  | $\mathbf{2 9 , 0 0 1 , 2 2 3}$ | $\mathbf{2 7 , 9 4 2 , 5 8 6}$ | $\mathbf{2 6 , 3 6 0 , 9 0 1}$ | $\mathbf{2 6 , 5 1 3 , 7 0 2}$ | $\mathbf{2 1 , 0 7 3 , 2 0 5}$ | $\mathbf{2 5 , 6 9 0 , 5 4 7}$ | $\mathbf{2 0 , 3 4 8 , 9 2 9}$ | $\mathbf{2 1 , 9 7 7 , 2 4 2}$ |


| 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 |
| B | $12,189,748$ | $9,578,864$ | $9,349,734$ | $14,609,416$ | $16,408,604$ | $15,504,408$ | $12,122,222$ | $2,926,562$ |
| C | $3,489,634$ | $3,694,139$ | $3,840,651$ | $4,063,638$ | $4,515,400$ | $4,495,703$ | $1,446,088$ | $1,509,446$ |
| E | 180,956 | 460,752 | 471,163 | 190,113 | 0 | 0 | 34,500 | 56,925 |
| F | - | - | 0 | 83,714 | 41,311 | 218,114 | 85,855 | 156,778 |
| G | 654,702 | 900,493 | $1,321,513$ | 755,274 | $1,001,852$ | $1,176,222$ | $1,085,814$ | 558,859 |
| L | - | - | 0 | 237,250 | 581,856 | 581,856 | 493,873 | 581,855 |
| R | 429,579 | 73,733 | 452,362 | 252,959 | 405,492 | 221,071 | 240,511 | 263,006 |
| S | - | - | 326,903 | 980,410 | 914,033 | 792,191 | 895,352 | $1,237,335$ |
| 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 |
| $\mathbf{W} * * *$ | 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 | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | $1,129,012$ | $1,129,012$ | $1,129,012$ | $1,129,012$ | $1,129,012$ | $1,129,012$ | $1,129,012$ | $1,129,012$ |
| $\mathbf{B}$ | $10,597,284$ | $10,616,032$ | $11,208,479$ | $3,346,467$ | $11,093,286$ | $11,247,526$ | $12,325,740$ | $14,000,000$ |
| C | $2,133,230$ | $2,133,230$ | $2,133,230$ | $2,133,230$ | $2,133,230$ | $2,240,100$ | $2,352,105$ | $3,528,158$ |
| E | - | - | - | - | - | - | - | - |
| F | 247,121 | 247,121 | 247,121 | 247,121 | 247,121 | 247,121 | 222,409 | 177,927 |
| $\mathbf{G}$ | 845,900 | 845,900 | 845,900 | 845,900 | 845,900 | 761,300 | 761,300 | 761,300 |
| $\mathbf{L}$ | 836,770 | 836,770 | 836,770 | 836,770 | 836,770 | 920,500 | 966,525 | $1,449,787$ |
| S | 181,257 | 60,419 | 60,419 | 60,419 | 60,419 | 60,419 | 60,419 | 60,419 |
| $\mathbf{W}$ | $1,341,160$ | $1,341,160$ | $1,341,160$ | $1,341,160$ | $1,341,160$ | $1,207,000$ | $1,146,650$ | $1,089,318$ |
| $\mathbf{X}$ | $4,242,082$ | $4,242,082$ | $4,242,082$ | $4,242,082$ | $4,242,082$ | $4,454,000$ | $4,676,700$ | $7,015,050$ |
|  | $\mathbf{2 1 , 5 5 3 , 8 1 6}$ | $\mathbf{2 1 , 4 5 1 , 7 2 6}$ | $\mathbf{2 2 , 0 4 4 , 1 7 3}$ | $\mathbf{1 4 , 1 8 2 , 1 6 1}$ | $\mathbf{2 1 , 9 2 8 , 9 8 0}$ | $\mathbf{2 2 , 2 6 6 , 9 7 8}$ | $\mathbf{2 3 , 6 4 0 , 8 6 0}$ | $\mathbf{2 9 , 2 1 0 , 9 7 1}$ |

*     - 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 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 | 254,026 |
| LO | - | - | - | 131 | 10 | 2,855 | 1,901 | 992 | 1,241 | 1,787 | 2,077 |
| TR | 172,270 | 143,561 | 115,853 | 147,601 | 106,257 | 126,262 | 177,332 | 119,303 | 77,542 | 128,976 | 120,935 |
|  | 426,814 | 284,516 | 304,503 | 314,957 | 251,605 | 196,798 | 245,172 | 194,991 | 230,326 | 210,8 | 77,038 |
| VESSEL TYPE | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
| JI | 182,925 | 146,066 | 13,001 | 101,754 | 1,661 | 7,775 | 81,766 | 157,637 | 100,348 | 3 | 11,645 |
| LO | 2,092 | 1,684 | 1,754 | 1,832 | 2,076 | 1,791 | 1,622 | 1,539 | 1,511 | 1,254 | 1,061 |
| PO | - | - | - | - | - | - | 295 | 85 | - | - | 2 |
| TR | 134,089 | 117,449 | 86,224 | 105,511 | 99,361 | 117,551 | 129,832 | 142,907 | 168,193 | 152,386 | 196,463 |
|  | 319,107 | 265,198 | 100,979 | 209,097 | 103,098 | 127,118 | 213,516 | 302,169 | 270,051 | 153,643 | 209,171 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| VESSEL TYPE | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |  |
| JI | 73,577 | 84,619 | 139,137 | 291,784 | 332,863 | 2,297 | 63,807 | 51,590 | 41,589 | 59,253 |  |
| LO | 1,406 | 1,222 | 1,476 | 1,367 | 1,258 | 1,160 | 1,126 | 1,083 | 1,162 | 1,151 |  |
| PO | - | - | 6 | 7 | 5 | - | - | 0 | - | - |  |
| TR | 150,530 | 180,192 | 123,985 | 157,824 | 128,363 | 108,033 | 103,242 | 124,160 | 153,598 | 122,133 |  |
|  | 225,513 | 266,033 | 264,604 | 450,983 | 462,489 | $\mathbf{1 1 1 , 4 9 0}$ | 168,175 | 176,833 | 196,344 | 182,537 |  |

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

| SPECIES | $\mathbf{1 9 8 9}$ | $\mathbf{1 9 9 0}$ | $\mathbf{1 9 9 1}$ | $\mathbf{1 9 9 2}$ | $\mathbf{1 9 9 3}$ | $\mathbf{1 9 9 4}$ | $\mathbf{1 9 9 5}$ | $\mathbf{1 9 9 6}$ | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ | $\mathbf{1 9 9 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BAC | 2,814 | 2,778 | 2,880 | 7,055 | 6,224 | 4,043 | 9,084 | 6,925 | 4,649 | 8,121 | 9,313 |
| BLU | 43,468 | 72,326 | 50,491 | 34,078 | 24,900 | 38,697 | 39,154 | 23,539 | 26,296 | 31,483 | 28,564 |
| ILL | 224,022 | 102,417 | 174,745 | 160,016 | 145,185 | 66,996 | 64,122 | 79,724 | 149,763 | 84,993 | 266,201 |
| KIN | 977 | 850 | 949 | 1,952 | 1,643 | 899 | 1,985 | 1,682 | 1,392 | 2,217 | 2,602 |
| LOL | 118,720 | 82,990 | 53,817 | 83,384 | 52,279 | 65,757 | 98,417 | 61,374 | 26,122 | 51,559 | 34,866 |
| MAR | - | 4 | 141 | 1 | 33 | - | 5,803 | 111 | 2,099 | - | 29 |
| HAK | 16,480 | 11,900 | 6,759 | 4,070 | 3,029 | 1,414 | 1,988 | 1,649 | 1,554 | - | - |
| PAT | - | - | - | - | - | - | - | - | - | 3,502 | 4,224 |
| RAY | 1,749 | 1,500 | 6,923 | 8,108 | 8,523 | 5,542 | 5,432 | 3,475 | 3,320 | 1,077 | 4,785 |
| TOO | 236 | 208 | 980 | 912 | 393 | 2,963 | 2,069 | 685 | 1,208 | 2,103 | 2,988 |
| WHI | 13,313 | 7,553 | 4,499 | 14,188 | 8,506 | 10,064 | 15,603 | 13,813 | 13,006 | 22,378 | 18,765 |
| OTH | 5,036 | 1,989 | 2,317 | 1,192 | 890 | 423 | 1,514 | 2,015 | 916 | 3,443 | 4,701 |

$\mathbf{4 2 6 , 8 1 4} \mathbf{2 8 4 , 5 1 6} 304,503 \quad 314,957 \quad 251,605196,798 \quad 245,172194,991 \quad 230,326 \quad 210,874377,038$

## Catch summary tables

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

| SPECIES | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BAC | 6,551 | 3,896 | 2,617 | 2,285 | 2,781 | 2,467 | 3,472 | 5,195 | 4,076 | 5,120 | 3,129 |
| BLU | 23,371 | 25,735 | 24,908 | 20,798 | 28,554 | 17,047 | 20,532 | 22,204 | 13,209 | 10,395 | 6,471 |
| COX | - | - | - | - | - | 8,641 | 21,012 | 30,386 | 60,601 | 58,236 | 76,451 |
| ILL | 189,709 | 150,631 | 13,411 | 103,375 | 1,720 | 7,937 | 85,622 | 161,506 | 106,189 | 44 | 12,111 |
| KIN | 1,875 | 1,625 | 1,224 | 1,275 | 1,841 | 1,936 | 2,822 | 3,592 | 2,227 | 3,390 | 3,639 |
| LOL | 64,493 | 53,560 | 23,712 | 47,422 | 26,835 | 58,813 | 43,064 | 42,003 | 52,260 | 31,474 | 66,543 |
| MAR | - | 147 | 1 | 31 | 24 | - | - | 4 | - | 0 | - |
| HAK | - | - | - | - | - | - | $8,410^{* *}$ | $11,909^{*}$ | $8,806 *$ | 13,049 | 13,606 |
| PAT | 3,069 | 1,978 | 1,678 | 1,967 | 1,926 | $2,735^{*}$ | $23 * * *$ | - | - | 0 | 0 |
| RAY | 3,853 | 4,309 | 3,364 | 3,988 | 5,151 | 5,698 | 4,683 | 5,669 | 3,861 | 5,873 | 5,891 |
| TOO | 2,318 | 1,754 | 1,793 | 1,707 | 2,002 | 1,677 | 1,568 | 1,520 | 1,429 | 1,418 | 1,404 |
| WHI | 19,831 | 19,471 | 26,970 | 23,815 | 25,905 | 16,723 | 19,769 | 16,669 | 15,908 | 23,404 | 19,227 |
| GRX | - | - | - | - |  | 778 | 800 | 629 | 943 | 965 | 455 |
| ZYP | - | 76 | 59 | 685 | 1,279 | 1,358 | 1,161 | 14 | 6 | 13 | 3 |
| OTH | 4,037 | 2,018 | 1,242 | 1,748 | 5,080 | 1,309 | 578 | 869 | 536 | 263 | 241 |

$\mathbf{3 1 9 , 1 0 7} \mathbf{2 6 5 , 1 9 8} \mathbf{1 0 0 , 9 7 9} 209,097103,098127,118213,516302,169270,051153,643209,171$

| SPECIES | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BAC | 4,210 | 4,629 | 5,164 | 3,467 | 3,340 | 3,143 | 1,379 | 1,655 | 1,768 | 1,418 |
| BLU | 3,940 | 1,596 | 2,698 | 3,612 | 2,790 | 5,415 | 2,309 | 992 | 518 | 69 |
| COX | 55,705 | 63,509 | 32,436 | 56,709 | 29,086 | 7,039 | 2,521 | 2,216 | 950 | 737 |
| ILL | 79,264 | 87,002 | 142,619 | 306,122 | 357,724 | 2,355 | 67,445 | 54,603 | 43,449 | 62,663 |
| KIN | 3,867 | 3,510 | 3,977 | 2,881 | 2,983 | 1,612 | 1,632 | 1,443 | 1,711 | 1,625 |
| LOL | 34,675 | 70,897 | 40,168 | 48,700 | 30,317 | 46,447 | 64,677 | 79,996 | 81,908 | 60,732 |
| MAR | - | - | - | 10 | 0 | 0 | 0 | - | 0 | 1 |
| HAK | 9,936 | 10,486 | 12,317 | 14,865 | 21,054 | 23,363 | 15,589 | 27,023 | 53,378 | 43,327 |
| PAT | 0 | 0 | 0 | - | 14 | 531 | 170 | 71 | 96 | 48 |
| RAY | 6,972 | 6,652 | 5,933 | 5,554 | 6,393 | 5,906 | 3,189 | 1,995 | 1,504 | 1,397 |
| TOO | 1,560 | 1,311 | 1,421 | 1,297 | 1,227 | 1,499 | 1,519 | 1,259 | 1,317 | 1,246 |
| WHI | 22,979 | 15,867 | 16,849 | 7,392 | 6,845 | 11,562 | 4,053 | 4,439 | 7,407 | 7,643 |
| GRX | 2,062 | 225 | 517 | 216 | 367 | 2,336 | 3,273 | 484 | 414 | 609 |
| ZYP | 11 | 0 | 0 | 1 | 1 | 8 | 4 | 4 | 2 | 16 |
| OTH | 331 | 347 | 506 | 155 | 348 | 274 | 415 | 654 | 1,930 | 1,006 |

$\mathbf{2 2 5 , 5 1 3} 266,033 \mathbf{2 6 4 , 6 0 4} 450,983462,489111,490168,175176,833196,344182,537$

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


## Catch summary tables

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

| MONTH | $\mathbf{1 9 8 9}$ | $\mathbf{1 9 9 0}$ | $\mathbf{1 9 9 1}$ | $\mathbf{1 9 9 2}$ | $\mathbf{1 9 9 3}$ | $\mathbf{1 9 9 4}$ | $\mathbf{1 9 9 5}$ | $\mathbf{1 9 9 6}$ | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ | $\mathbf{1 9 9 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 2,475 | . | 5,128 | 5,217 | 3,723 | 9,149 | 7,810 | 5,217 | 7,918 | 7,687 | 6,605 |
| February | 30,652 | 26,620 | 19,493 | 21,028 | 6,789 | 13,273 | 28,800 | 15,782 | 8,660 | 19,942 | 29,626 |
| March | 89,952 | 74,890 | 88,553 | 96,826 | 39,900 | 52,894 | 46,084 | 49,887 | 29,199 | 47,799 | 98,631 |
| April | 131,835 | 56,338 | 83,954 | 79,745 | 79,365 | 27,654 | 49,391 | 48,971 | 60,718 | 63,064 | 104,827 |
| May | 73,998 | 28,475 | 32,258 | 24,303 | 51,777 | 18,914 | 21,514 | 19,526 | 68,234 | 22,936 | 73,790 |
| June | 11,913 | 1,017 | 112 | 107 | 437 | 2,002 | 1,786 | 1,211 | 10,474 | 2,821 | 12,665 |
| July | 5,265 | 2,437 | 2,538 | 223 | 1,577 | 2,172 | 2,937 | 1,418 | 2,625 | 1,596 | 2,313 |
| August | 24,987 | 13,196 | 14,895 | 22,415 | 20,227 | 18,151 | 25,736 | 16,451 | 10,019 | 13,012 | 13,364 |
| September | 26,143 | 33,653 | 21,075 | 26,933 | 16,111 | 19,569 | 25,540 | 13,562 | 8,668 | 11,157 | 11,853 |
| October | 14,221 | 17,836 | 13,123 | 19,839 | 11,891 | 16,105 | 14,486 | 8,315 | 7,960 | 7,778 | 9,857 |
| November | 8,909 | 19,119 | 9,832 | 10,736 | 11,056 | 8,805 | 11,881 | 7,406 | 8,381 | 6,395 | 7,138 |
| December | $\mathbf{6 , 4 6 3}$ | 10,934 | 13,542 | 7,585 | 8,751 | 8,111 | 9,205 | 7,245 | 7,470 | 6,689 | 6,370 |


| MONTH | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 5,213 | 6,497 | 3,536 | 5,881 | 2,901 | 1,712 | 2,181 | 2,381 | 4,072 | 3,804 | 2,742 |
| February | 47,924 | 10,926 | 12,306 | 16,612 | 9,405 | 7,562 | 10,867 | 11,142 | 14,326 | 12,427 | 12,883 |
| March | 94,536 | 81,574 | 17,335 | 91,036 | 15,081 | 27,436 | 48,141 | 40,210 | 38,998 | 20,338 | 40,981 |
| April | 63,840 | 71,936 | 13,811 | 37,830 | 11,292 | 10,581 | 46,987 | 86,244 | 65,736 | 18,753 | 30,748 |
| May | 48,684 | 38,621 | 15,504 | 5,680 | 4,930 | 3,870 | 28,058 | 69,293 | 46,779 | 17,809 | 16,803 |
| June | 2,854 | 2,199 | 1,473 | 1,385 | 727 | 712 | 1,840 | 8,694 | 16,356 | 5,955 | 6,948 |
| July | 2,502 | 1,299 | 253 | 877 | 6,771 | 11,786 | 10,168 | 12,356 | 10,254 | 14,481 | 17,796 |
| August | 16,528 | 17,380 | 11,863 | 21,491 | 14,344 | 22,575 | 23,414 | 26,175 | 20,967 | 16,506 | 28,251 |
| September | 16,874 | 15,306 | 5,751 | 14,513 | 10,571 | 17,115 | 15,654 | 20,049 | 23,084 | 15,139 | 22,304 |
| October | 8,333 | 12,413 | 5,668 | 8,831 | 13,552 | 11,010 | 13,520 | 14,000 | 15,444 | 13,499 | 12,286 |
| November | 7,306 | 4,933 | 8,638 | 3,981 | 8,412 | 9,646 | 8,895 | 9,768 | 9,967 | 9,328 | 9,881 |
| December | 4,513 | 2,112 | 4,841 | 980 | 5,114 | 3,113 | 3,790 | 1,856 | 4,070 | 5,605 | 7,548 |

$\mathbf{3 1 9 , 1 0 7} \mathbf{2 6 5 , 1 9 8} \mathbf{1 0 0 , 9 7 9} 209,097 \quad 103,098 \quad 127,118 \quad 213,516302,169270,051 \quad 153,643209,171$

| MONTH | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 4,973 | 625 | 3,758 | 142 | 217 | 3,458 | 497 | 127 | 5,091 | 2,310 |
| February | 11,110 | 17,747 | 8,684 | 4,130 | 18,850 | 10,225 | 2,901 | 6,371 | 21,506 | 21,996 |
| March | 75,786 | 75,158 | 39,918 | 84,270 | 132,218 | 15,693 | 51,813 | 59,664 | 60,521 | 57,730 |
| April | 37,109 | 54,366 | 72,662 | 155,782 | 164,810 | 19,478 | 53,615 | 34,646 | 33,875 | 23,799 |
| May | 18,711 | 26,086 | 68,741 | 102,396 | 89,798 | 9,302 | 9,674 | 11,335 | 12,894 | 9,504 |
| June | 8,222 | 7,749 | 7,817 | 23,929 | 11,276 | 4,871 | 2,359 | 4,525 | 10,860 | 8,098 |
| July | 15,423 | 13,012 | 8,022 | 16,834 | 6,453 | 6,614 | 6,794 | 9,824 | 15,167 | 11,462 |
| August | 18,736 | 30,540 | 18,447 | 22,033 | 14,286 | 19,333 | 16,881 | 28,271 | 26,964 | 22,272 |
| September | 13,130 | 19,045 | 20,019 | 18,973 | 9,711 | 13,089 | 14,890 | 14,534 | 7,850 | 16,506 |
| October | 10,381 | 12,185 | 8,966 | 10,816 | 5,224 | 6,789 | 5,145 | 4,869 | 1,107 | 7,529 |
| November | 6,693 | 5,829 | 4,275 | 8,682 | 3,761 | 1,281 | 2,800 | 964 | 130 | 1,176 |
| December | 5,237 | 3,689 | 3,294 | 2,997 | 5,885 | 1,357 | 806 | 1,702 | 385 | 157 |
|  | $\mathbf{2 2 5 , 5 1 3}$ | $\mathbf{2 6 6 , 0 3 3}$ | $\mathbf{2 6 4 , 6 0 4}$ | $\mathbf{4 5 0 , 9 8 3}$ | $\mathbf{4 6 2 , 4 8 9}$ | $\mathbf{1 1 1 , 4 9 0}$ | $\mathbf{1 6 8 , 1 7 5}$ | $\mathbf{1 7 6 , 8 3 3}$ | $\mathbf{1 9 6 , 3 4 4}$ | $\mathbf{1 8 2 , 5 3 7}$ |

## Catch summary tables

Table C. 4 Total catch (tonnes) by licence used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 27,390 | 20,970 | 18,363 | 22,467 | 18,529 | 20,767 | 14,235 | 23,465 | 29,411 | 22,797 |
| $\mathbf{B}$ | 74,538 | 86,114 | 139,178 | 293,762 | 335,071 | 2,297 | 64,471 | 52,162 | 42,175 | 60,197 |
| $\mathbf{C}$ | 19,272 | 35,949 | 20,408 | 29,021 | 33,439 | 24,045 | 40,344 | 44,237 | 56,034 | 29,646 |
| E | 2,858 | 1,339 | 1,258 | 903 | 1,678 | 694 | 1,291 | 1,105 | 1,496 | 1,453 |
| F | 4,280 | 5,239 | 3,509 | 4,819 | 4,089 | 2,782 | 1,477 | 683 | 262 | 674 |
| $\mathbf{G}$ | 28,908 | 35,689 | 22,774 | 26,849 | 32,042 | 13,928 | 9,468 | 9,063 | 15,955 | 13,328 |
| $\mathbf{L}$ | 1,406 | 1,222 | 1,476 | 1,367 | 1,258 | 1,157 | 1,126 | 1,083 | 1,162 | 1,145 |
| $\mathbf{S}$ | 4,745 | 133 | 1 | 1,365 | 2 | 21 | - | 0 | - | - |
| $\mathbf{W}$ | 40,019 | 42,272 | 35,014 | 46,992 | 24,776 | 20,371 | 9,857 | 8,156 | 24,859 | 22,947 |
| $\mathbf{X}$ | 22,098 | 37,106 | 22,623 | 23,438 | 11,604 | 25,429 | 25,907 | 36,878 | 24,995 | 30,350 |
|  | $\mathbf{2 2 5 , 5 1 3}$ | $\mathbf{2 6 6 , 0 3 3}$ | $\mathbf{2 6 4 , 6 0 4}$ | $\mathbf{4 5 0 , 9 8 3}$ | $\mathbf{4 6 2 , 4 8 9}$ | $\mathbf{1 1 1 , 4 9 0}$ | $\mathbf{1 6 8 , 1 7 5}$ | $\mathbf{1 7 6 , 8 3 3}$ | $\mathbf{1 9 6 , 3 4 4}$ | $\mathbf{1 8 2 , 5 3 7}$ |

Table C. 5 Total catch (tonnes) by gross tonnage (GT) and year

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | 6 | 7 | 5 | - | - | 0 | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | 761 | 936 | 1,245 | 2,579 | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 30,329 | 35,335 | 42,597 | 69,018 | 55,821 | 5,025 | 11,143 | 9,313 | 10,513 | 8,392 |
| $\mathbf{8 0 0 - 9 9 9}$ | 61,453 | 71,471 | 102,421 | 213,020 | 264,132 | 21,482 | 58,510 | 48,463 | 44,231 | 46,260 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 68,654 | 76,217 | 69,032 | 102,123 | 90,293 | 31,278 | 34,371 | 43,982 | 56,939 | 61,965 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 38,032 | 44,253 | 27,628 | 35,706 | 28,176 | 29,271 | 32,893 | 35,631 | 44,599 | 36,319 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 21,060 | 37,005 | 21,246 | 26,848 | 24,062 | 24,364 | 31,258 | 39,445 | 40,067 | 29,601 |
| $\mathbf{> 2 , 9 9 9}$ | 5,225 | 816 | 428 | 1,681 | - | 70 | - | - | - | - |
|  | $\mathbf{2 2 5 , 5 1 3}$ | $\mathbf{2 6 6 , 0 3 3}$ | $\mathbf{2 6 4 , 6 0 4}$ | $\mathbf{4 5 0 , 9 8 3}$ | $\mathbf{4 6 2 , 4 8 9}$ | $\mathbf{1 1 1 , 4 9 0}$ | $\mathbf{1 6 8 , 1 7 5}$ | $\mathbf{1 7 6 , 8 3 3}$ | $\mathbf{1 9 6 , 3 4 4}$ | $\mathbf{1 8 2 , 5 3 7}$ |

Table C. 6 Total catch (tonnes) by length overall (m) (LOA)

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 2,831 | 936 | 1,720 | 2,823 | 640 | 980 | - | 122 | - | 407 |
| $\mathbf{4 5 - 4 9}$ | 12,256 | 16,447 | 18,793 | 25,519 | 24,364 | 4,186 | 5,227 | 5,556 | 1,833 | 2,124 |
| $\mathbf{5 0 - 5 4}$ | 27,085 | 34,323 | 34,789 | 62,054 | 48,615 | 10,231 | 11,169 | 10,288 | 12,706 | 11,646 |
| $\mathbf{5 5 - 5 9}$ | 34,008 | 36,054 | 43,901 | 61,079 | 60,879 | 6,316 | 14,998 | 11,720 | 18,510 | 11,560 |
| $\mathbf{6 0 - 6 4}$ | 37,730 | 43,878 | 48,833 | 71,260 | 72,552 | 12,110 | 14,748 | 18,028 | 23,874 | 24,676 |
| $\mathbf{6 5 - 6 9}$ | 50,627 | 56,227 | 48,495 | 92,152 | 102,163 | 29,818 | 43,196 | 44,145 | 47,559 | 47,769 |
| $\mathbf{7 0 - 7 9}$ | 42,939 | 57,385 | 55,973 | 119,367 | 140,424 | 33,393 | 61,539 | 61,825 | 67,766 | 65,799 |
| $\mathbf{8 0 - 8 9}$ | 6,480 | 8,790 | 5,509 | 7,152 | 5,776 | 6,457 | 9,707 | 11,514 | 10,930 | 9,098 |
| $>\mathbf{8 9}$ | 11,556 | 11,993 | 6,591 | 9,576 | 7,074 | 7,999 | 7,590 | 13,634 | 13,173 | 9,458 |


| $\mathbf{2 2 5 , 5 1 3}$ | 266,033 | 264,604 | 450,983 | 462,489 | 111,490 | 168,175 | 176,833 | 196,344 | 182,537 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## Catch summary tables

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

| FLEET | $\mathbf{1 9 8 9}$ | $\mathbf{1 9 9 0}$ | $\mathbf{1 9 9 1}$ | $\mathbf{1 9 9 2}$ | $\mathbf{1 9 9 3}$ | $\mathbf{1 9 9 4}$ | $\mathbf{1 9 9 5}$ | $\mathbf{1 9 9 6}$ | $\mathbf{1 9 9 7}$ | $\mathbf{1 9 9 8}$ | $\mathbf{1 9 9 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AU | - | - | - | - | - | - | - | - | - | 3593 | 3,711 |
| BG | 13,503 | 22,369 | 21,888 | 8,981 | 2,976 | - | - | - | - | - | - |
| BZ | - | - | - | - | - | - | 585 | - | - | - | 4,511 |
| CL | 1,150 | 1,884 | - | 3,145 | 1,514 | 5,223 | 9,997 | 6,638 | 8,199 | 8849 | 5,491 |
| CN | - | - | - | - | - | - | - | - | - | 1177 | 7,301 |
| ES | 82,345 | 65,908 | 57,605 | 87,763 | 58,143 | 67,191 | 89,284 | 40,842 | 20,510 | 40307 | 35,909 |
| FK | 781 | 5,853 | 1,470 | 1,846 | 1,978 | 5,906 | 27,184 | 31,520 | 17,117 | 43578 | 39,131 |
| FR | - | - | - | - | - | 1,945 | 7,369 | 4,600 | 1,545 | 4177 | 2,381 |
| 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 | 57,971 |
| KR | 51,133 | 32,996 | 61,614 | 72,489 | 65,228 | 42,987 | 63,236 | 73,861 | 129,546 | 45082 | 207,795 |
| NA | - | - | - | - | - | - | - | - | 303 | 676 | 746 |
| NL | 4,587 | 3,369 | - | - | - | - | - | - | - | - | - |
| NO | - | 1,384 | - | - | - | - | - | 319 | 210 | - | - |
| PA | - | - | 2,425 | 4,027 | 1,060 | 598 | 459 | 706 | - | 1098 | 61 |
| 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 | 8,771 |
| UK | 11,685 | 1,383 | 1,992 | - | 445 | 1,255 | 2,083 | 4,357 | 2,302 | 3575 | 3,259 |
| UR | - | - | - | - | - | 21 | - | - | - | - | - |
| UY | - | - | - | - | - | - | - | - | - | 36 | - |

$426,814284,516304,503 \quad 314,957 \quad 251,605196,798 \quad 245,172 \quad 194,991 \quad 230,326 \quad 210,874377,038$

| FLEET | $\mathbf{2 0 0 0}$ | $\mathbf{2 0 0 1}$ | $\mathbf{2 0 0 2}$ | $\mathbf{2 0 0 3}$ | $\mathbf{2 0 0 4}$ | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{B Z}$ | 6,729 | 2,581 | 136 | 2,788 | 42 | 61 | - | 2,285 | - | - | - |
| CB | 2,768 | 1,204 | 33 | 857 | 17 | - | - | - | - | - | 94 |
| CL | 2,749 | 8,014 | 9,252 | 6,490 | 9,752 | - | 2,131 | 3,948 | 1,640 | - | - |
| CN | 11,641 | 18,838 | 1,203 | 12,652 | 99 | 99 | 3,555 | 8,575 | - | - | - |
| EE | - | - | - | - | 226 | - | 1,427 | - | - | - | - |
| ES | 30,732 | 29,170 | 23,972 | 20,169 | 22,488 | 24,559 | 42,057 | 56,187 | 72,152 | 80,267 | 88,060 |
| FK | 62,947 | 59,820 | 35,732 | 60,596 | 43,320 | 71,204 | 65,255 | 65,809 | 76,969 | 58,549 | 93,191 |
| FR | 2,053 | - | - | - | - | - | - | - | - | - | - |
| GH | - | - | - | - | - | - | 1,244 | - | - | - | - |
| JP | 41,737 | 27,913 | 14,485 | 18,923 | 15,062 | 11,230 | 12,049 | 9,042 | 8,820 | 7,443 | 6,018 |
| KR | 128,940 | 86,587 | 12,637 | 53,677 | 6,008 | 10,076 | 61,748 | 101,162 | 81,267 | 3,317 | 9,407 |
| NA | - | - | - | - | 1,181 | - | - | - | - | - | - |
| NZ | - | - | - | 69 | - | - | - | - | - | - | - |
| PA | - | - | - | - | - | 194 | 585 | 1,254 | - | - | - |
| PT | 66 | - | - | - | - | - | - | - | - | - | - |
| RU | - | 228 | - | 6,891 | 31 | - | - | - | - | - | 2 |
| SL | - | - | - | - | - | - | - | - | - | - | 178 |
| TW | 23,243 | 25,380 | 1,190 | 22,057 | 866 | 3,106 | 18,554 | 49,985 | 24,353 | - | 5,808 |
| UK | 5,501 | 3,564 | 2,279 | 3,238 | 2,703 | 5,100 | 3,742 | 3,923 | 4,850 | 4,067 | 6,271 |
| UY | - | 81 | 61 | 690 | 1,303 | 1,369 | 1,169 | - | - | - | - |
| VC | - | 1,820 | - | - | - | - | - | - | - | - | - |
| VU | - | - | - | - | - | 120 | - | - | - | - | 142 |

## Catch summary tables

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

| FISHING | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FLEET | 1,144 | 1,695 | 1,468 | - | - | - | - | - | - | - |
| CB | - | - | - | 1,729 | - | - | 276 | - | - | - |
| CL | 77,895 | 84,914 | 59,011 | 81,264 | 68,438 | 48,165 | 34,021 | 35,023 | 63,640 | 53,040 |
| ES | 62,196 | 85,829 | 60,473 | 67,685 | 52,458 | 55,263 | 63,892 | 84,051 | 85,444 | 65,624 |
| FK | 4,745 | 109 | - | - | - | - | - | - | - | - |
| JP | 26,310 | 32,786 | 52,216 | 107,343 | 101,309 | 2,743 | 17,902 | 13,476 | 9,972 | 14,296 |
| KR | - | 340 | - | - | - | - | - | - | - | - |
| SL | 48,540 | 55,327 | 86,147 | 178,389 | 223,339 | 2,058 | 45,209 | 36,681 | 30,696 | 44,810 |
| TW | 2,861 | 5,033 | 2,968 | 3,528 | 3,749 | 3,184 | 4,212 | 4,902 | 5,090 | 3,676 |
| UK | 1,821 | - | 2,322 | 11,044 | 13,195 | 77 | 2,664 | 2,700 | 1,507 | 1,091 |
| VU | $\mathbf{2 2 5 , 5 1 3}$ | $\mathbf{2 6 6 , 0 3 3}$ | $\mathbf{2 6 4 , 6 0 4}$ | $\mathbf{4 5 0 , 9 8 3}$ | $\mathbf{4 6 2 , 4 8 9}$ | $\mathbf{1 1 1 , 4 9 0}$ | $\mathbf{1 6 8 , 1 7 5}$ | $\mathbf{1 7 6 , 8 3 3}$ | $\mathbf{1 9 6 , 3 4 4}$ | $\mathbf{1 8 2 , 5 3 7}$ |
|  |  |  |  |  |  |  |  |  |  |  |

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

| VESSEL TYPE | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{J I}$ | 73,577 | 84,619 | 139,137 | 291,774 | 332,863 | 2,297 | 63,807 | 51,590 | 41,589 | 59,249 |
| TR | 5,688 | 2,383 | 3,481 | 14,348 | 24,861 | 57 | 3,638 | 3,012 | 1,860 | 3,413 |
|  | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 2 2}$ | $\mathbf{3 5 7 , 7 2 4}$ | $\mathbf{2 , 3 5 5}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 6 0 3}$ | $\mathbf{4 3 , 4 4 9}$ | $\mathbf{6 2 , 6 6 3}$ |

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

| MONTH | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | - | 1 | - | - | - | 1 | 0 | - | - | - |
| February | 987 | 9,247 | 195 | 7 | 13,918 | 77 | 9 | 3,828 | 11,161 | 11,834 |
| March | 60,836 | 40,558 | 20,910 | 66,670 | 110,741 | 2,055 | 29,892 | 34,214 | 29,333 | 42,066 |
| April | 17,382 | 29,213 | 57,455 | 137,647 | 153,163 | 199 | 33,121 | 14,779 | 2,843 | 8,214 |
| May | 59 | 7,959 | 59,361 | 87,696 | 75,544 | 19 | 4,415 | 1,780 | 110 | 548 |
| June | 0 | 23 | 4,695 | 14,007 | 4,352 | 2 | 8 | 1 | - | - |
| July | - | - | 2 | 94 | 6 | 0 | 0 | 0 | 0 | 0 |
| August | - | - | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| September | - | - | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| October | - | 0 | - | - | - | 1 | 0 | - | - | - |
| November | 0 | - | - | - | - | - | - | - | - | - |
| December | 0 | - | - | - | - | 0 | 0 | 0 | - | - |
|  | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 2 2}$ | $\mathbf{3 5 7 , 7 2 4}$ | $\mathbf{2 , 3 5 5}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 6 0 3}$ | $\mathbf{4 3 , 4 4 9}$ | $\mathbf{6 2 , 6 6 3}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CB | 1,144 | 1,695 | 1,468 | - | - | - | - | - | - | - |
| ES | 2,035 | 509 | 2,798 | 9,527 | 9,809 | 46 | 2,800 | 1,545 | 1,161 | 2,000 |
| FK | 2,828 | 572 | 650 | 2,870 | 11,889 | 12 | 278 | 946 | 163 | 514 |
| KR | 22,892 | 28,554 | 49,236 | 104,257 | 98,584 | 162 | 16,491 | 12,731 | 9,921 | 14,251 |
| SL | - | 340 | - | - | - | - | - | - | - | - |
| TW | 48,540 | 55,327 | 86,147 | 178,389 | 223,339 | 2,058 | 45,209 | 36,681 | 30,696 | 44,807 |
| UK | 4 | 6 | 0 | 36 | 909 | - | 3 | 0 | 0 | - |
| VU | 1,821 | - | 2,322 | 11,044 | 13,195 | 77 | 2,664 | 2,700 | 1,507 | 1,091 |
|  | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 2 2}$ | $\mathbf{3 5 7 , 7 2 4}$ | $\mathbf{2 , 3 5 5}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 6 0 3}$ | $\mathbf{4 3 , 4 4 9}$ | $\mathbf{6 2 , 6 6 3}$ |

## Illex argentinus-IIlex squid

Table D. 4 Total catch (tonnes) by license used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | 689 | 48 | 193 | 1,071 | 624 | 8 | 73 | 61 | 12 | 5 |
| B | 74,396 | 85,915 | 139,172 | 293,690 | 334,973 | 2,297 | 64,364 | 52,110 | 42,124 | 60,148 |
| C | 2,217 | 30 | - | 0 | 12,036 | 5 | 17 | 29 | 5 | 5 |
| E | 1 | 11 | 1 | 23 | 570 | 0 | 2 | 10 | 9 | 16 |
| F | 2 | 19 | 11 | 50 | 18 | 0 | 0 | 5 | 0 | 19 |
| G | 1,902 | 894 | 3,208 | 10,960 | 9,265 | 41 | 2,967 | 2,262 | 1,166 | 2,352 |
| S | - | - | - | - | - | - | - | 0 | - | - |
| W | 58 | 85 | 34 | 278 | 239 | 3 | 21 | 125 | 131 | 117 |
| X | - | - | 0 | 50 | - | 1 | 0 | 0 | 1 | 0 |

Table D. 5 Total catch (tonnes) by gross tonnage (GT) and year

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | 761 | 936 | 1,245 | 2,579 | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 21,395 | 24,365 | 35,080 | 61,707 | 49,495 | 72 | 7,625 | 4,945 | 3,611 | 4,717 |
| $\mathbf{8 0 0 - 9 9 9}$ | 46,325 | 54,022 | 85,758 | 192,671 | 246,467 | 2,036 | 49,872 | 37,281 | 27,911 | 34,841 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 8,428 | 7,576 | 19,714 | 46,916 | 49,307 | 233 | 9,251 | 11,912 | 11,656 | 22,489 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 1,184 | 102 | 821 | 2,131 | 5,474 | 11 | 691 | 438 | 268 | 587 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 1,173 | 1 | 0 | 119 | 6,981 | 2 | 6 | 27 | 4 | 30 |
| $\mathbf{> 2 , 9 9 9}$ | - | - | - | 0 | - | - | - | - | - | - |
|  | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 2 2}$ | $\mathbf{3 5 7 , 7 2 4}$ | $\mathbf{2 , 3 5 5}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 6 0 3}$ | $\mathbf{4 3 , 4 4 9}$ | $\mathbf{6 2 , 6 6 3}$ |

Table D. 6 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 871 | 936 | 1,245 | 2,579 | - | - | - | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 5,096 | 6,637 | 11,610 | 19,372 | 18,956 | 16 | 2,938 | 3,018 | 1,833 | 2,124 |
| $\mathbf{5 0 - 5 4}$ | 17,426 | 20,267 | 24,481 | 51,038 | 37,730 | 23 | 5,442 | 3,465 | 2,686 | 4,664 |
| $\mathbf{5 5 - 5 9}$ | 19,736 | 20,256 | 30,693 | 52,880 | 53,750 | 355 | 10,282 | 5,429 | 3,522 | 2,728 |
| $\mathbf{6 0 - 6 4}$ | 17,115 | 19,929 | 29,740 | 49,074 | 56,735 | 232 | 9,354 | 6,950 | 7,505 | 9,392 |
| $\mathbf{6 5 - 6 9}$ | 12,850 | 13,351 | 21,415 | 54,216 | 76,182 | 742 | 17,352 | 16,194 | 13,023 | 18,082 |
| $\mathbf{7 0 - 7 9}$ | 5,283 | 5,626 | 23,434 | 76,947 | 110,597 | 986 | 22,074 | 19,520 | 14,877 | 25,669 |
| $\mathbf{8 0 - 8 9}$ | 503 | - | - | 6 | 1,637 | 1 | 1 | 0 | 0 | 4 |
| $>\mathbf{8 9}$ | 384 | - | 0 | 11 | 2,137 | 1 | 2 | 26 | 3 | 1 |
|  | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 2 2}$ | $\mathbf{3 5 7 , 7 2 4}$ | $\mathbf{2 , 3 5 5}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 6 0 3}$ | $\mathbf{4 3 , 4 4 9}$ | $\mathbf{6 2 , 6 6 3}$ |

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

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | 761 | 936 | 1,245 | 2,579 | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 21,000 | 24,327 | 34,767 | 60,488 | 48,489 | 68 | 7,266 | 4,505 | 3,460 | 3,994 |
| $\mathbf{8 0 0 - 9 9 9}$ | 45,065 | 52,609 | 85,278 | 188,197 | 242,582 | 2,028 | 48,762 | 35,833 | 27,199 | 33,508 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 6,751 | 6,748 | 17,848 | 40,510 | 41,792 | 202 | 7,779 | 11,252 | 10,930 | 21,748 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{> 2 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
|  | $\mathbf{7 3 , 5 7 7}$ | $\mathbf{8 4 , 6 1 9}$ | $\mathbf{1 3 9 , 1 3 7}$ | $\mathbf{2 9 1 , 7 7 4}$ | $\mathbf{3 3 2 , 8 6 3}$ | $\mathbf{2 , 2 9 7}$ | $\mathbf{6 3 , 8 0 7}$ | $\mathbf{5 1 , 5 9 0}$ | $\mathbf{4 1 , 5 8 9}$ | $\mathbf{5 9 , 2 4 4}$ |

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

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 761 | 936 | 1,245 | 2,579 | - | - | - | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 4,973 | 6,610 | 11,326 | 18,786 | 18,136 | 15 | 2,938 | 2,518 | 1,833 | 2,124 |
| $\mathbf{5 0 - 5 4}$ | 16,346 | 18,870 | 24,287 | 48,080 | 34,429 | 20 | 4,359 | 2,388 | 1,999 | 2,938 |
| $\mathbf{5 5 - 5 9}$ | 19,081 | 19,894 | 30,141 | 51,404 | 52,549 | 348 | 9,505 | 5,117 | 3,214 | 2,519 |
| $\mathbf{6 0 - 6 4}$ | 16,409 | 19,619 | 28,849 | 45,361 | 53,966 | 210 | 9,015 | 6,783 | 7,403 | 9,324 |
| $\mathbf{6 5 - 6 9}$ | 12,164 | 13,163 | 20,896 | 50,906 | 71,209 | 725 | 16,231 | 15,581 | 12,686 | 17,419 |
| $\mathbf{7 0 - 7 9}$ | 3,843 | 5,529 | 22,393 | 74,658 | 102,574 | 980 | 21,759 | 19,203 | 14,455 | 24,926 |
| $\mathbf{8 0 - 8 9}$ | - | - | - | - | - | - | - | - | - | - |
| $>\mathbf{8 9}$ | - | - | - | - | - | - | - | - | - | - |
|  | $\mathbf{7 3 , 5 7 7}$ | $\mathbf{8 4 , 6 1 9}$ | $\mathbf{1 3 9 , 1 3 7}$ | $\mathbf{2 9 1 , 7 7 4}$ | $\mathbf{3 3 2 , 8 6 3}$ | $\mathbf{2 , 2 9 7}$ | $\mathbf{6 3 , 8 0 7}$ | $\mathbf{5 1 , 5 9 0}$ | $\mathbf{4 1 , 5 8 9}$ | $\mathbf{5 9 , 2 4 4}$ |

## Illex argentinus-IIlex squid

Table D. 9 Total catch (tonnes) of trawlers by license used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 689 | 48 | 193 | 1,071 | 624 | 8 | 73 | 61 | 12 | 5 |
| $\mathbf{B}$ | 819 | 1,296 | 34 | 1,916 | 2,232 | - | 557 | 519 | 535 | 899 |
| $\mathbf{C}$ | 2,217 | 30 | - | 0 | 12,036 | 5 | 17 | 29 | 5 | 5 |
| $\mathbf{E}$ | 1 | 11 | 1 | 23 | 448 | 0 | 2 | 10 | 9 | 16 |
| F | 2 | 19 | 11 | 50 | 18 | 0 | 0 | 5 | 0 | 19 |
| $\mathbf{G}$ | 1,902 | 894 | 3,208 | 10,960 | 9,265 | 41 | 2,967 | 2,262 | 1,166 | 2,352 |
| $\mathbf{S}$ | - | - | - | - | - | - | - | 0 | - | - |
| $\mathbf{W}$ | 58 | 85 | 34 | 278 | 239 | 3 | 21 | 125 | 131 | 117 |
| $\mathbf{X}$ | - | - | 0 | 50 | - | 1 | 0 | 0 | 1 | 0 |
|  | $\mathbf{5 , 6 8 8}$ | $\mathbf{2 , 3 8 3}$ | $\mathbf{3 , 4 8 1}$ | $\mathbf{1 4 , 3 4 8}$ | $\mathbf{2 4 , 8 6 1}$ | $\mathbf{5 7}$ | $\mathbf{3 , 6 3 8}$ | $\mathbf{3 , 0 1 2}$ | $\mathbf{1 , 8 6 0}$ | $\mathbf{3 , 4 1 3}$ |

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

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 394 | 38 | 314 | 1,219 | 1,006 | 4 | 359 | 440 | 150 | 723 |
| $\mathbf{8 0 0 - 9 9 9}$ | 1,259 | 1,413 | 480 | 4,474 | 3,885 | 9 | 1,109 | 1,448 | 712 | 1,333 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 1,678 | 828 | 1,866 | 6,406 | 7,515 | 32 | 1,473 | 659 | 726 | 741 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 1,184 | 102 | 821 | 2,131 | 5,474 | 11 | 691 | 438 | 268 | 587 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 1,173 | 1 | 0 | 119 | 6,981 | 2 | 6 | 27 | 4 | 30 |
| $\mathbf{> 2 , 9 9 9}$ | - | - | - | 0 | - | - | - | - | - | - |
|  | $\mathbf{5 , 6 8 8}$ | $\mathbf{2 , 3 8 3}$ | $\mathbf{3 , 4 8 1}$ | $\mathbf{1 4 , 3 4 8}$ | $\mathbf{2 4 , 8 6 1}$ | $\mathbf{5 7}$ | $\mathbf{3 , 6 3 8}$ | $\mathbf{3 , 0 1 2}$ | $\mathbf{1 , 8 6 0}$ | $\mathbf{3 , 4 1 3}$ |

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

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 110 | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 123 | 27 | 285 | 586 | 820 | 1 | 0 | 500 | - | - |
| $\mathbf{5 0 - 5 4}$ | 1,080 | 1,397 | 194 | 2,958 | 3,300 | 4 | 1,083 | 1,077 | 687 | 1,721 |
| $\mathbf{5 5 - 5 9}$ | 656 | 362 | 553 | 1,475 | 1,201 | 7 | 777 | 312 | 308 | 214 |
| $\mathbf{6 0 - 6 4}$ | 705 | 311 | 891 | 3,713 | 2,768 | 22 | 339 | 167 | 102 | 68 |
| $\mathbf{6 5 - 6 9}$ | 686 | 188 | 519 | 3,310 | 4,973 | 17 | 1,121 | 614 | 338 | 663 |
| $\mathbf{7 0 - 7 9}$ | 1,440 | 98 | 1,041 | 2,289 | 8,024 | 6 | 315 | 317 | 423 | 743 |
| $\mathbf{8 0 - 8 9}$ | 503 | - | - | 6 | 1,637 | 1 | 1 | 0 | 0 | 4 |
| $>\mathbf{8 9}$ | 384 | - | 0 | 11 | 2,137 | 1 | 2 | 26 | 3 | 1 |
|  | $\mathbf{5 , 6 8 8}$ | $\mathbf{2 , 3 8 3}$ | $\mathbf{3 , 4 8 1}$ | $\mathbf{1 4 , 3 4 8}$ | $\mathbf{2 4 , 8 6 1}$ | $\mathbf{5 7}$ | $\mathbf{3 , 6 3 8}$ | $\mathbf{3 , 0 1 2}$ | $\mathbf{1 , 8 6 0}$ | $\mathbf{3 , 4 1 3}$ |

Illex argentinus
First Season 2020 (01 Jan to 30 Jun)


Length- frequency distribution and length-weight relationship in trawler fleet in 2020



## Illex argentinus-IIlex squid

Length- frequency distribution and length-weight relationship in jigger fleet in 2020



## Doryteuthis gahi - Falkland Calamari

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

| VESSEL TYPE | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 34,675 | 70,897 | 40,168 | 48,700 | 30,317 | 46,447 | 64,677 | 79,996 | 81,908 | 60,732 |
|  | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 7}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 0}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 7}$ | $\mathbf{7 9 , 9 9 6}$ | $\mathbf{8 1 , 9 0 8}$ | $\mathbf{6 0 , 7 3 2}$ |

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

| MONTH | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | - | - | - | - | - | 0 | 5 | - | 2 | 1 |
| February | 1,308 | 3,885 | 1,293 | 2,167 | 2,048 | 1,222 | 2,224 | 1,407 | 6,377 | 4,866 |
| March | 10,276 | 21,154 | 12,983 | 13,832 | 14,630 | 8,713 | 20,244 | 23,412 | 26,926 | 14,454 |
| April | 3,826 | 9,917 | 5,724 | 12,318 | 3,007 | 12,832 | 16,322 | 16,852 | 22,638 | 10,487 |
| May | 20 | 18 | 35 | 47 | 115 | 55 | 1,081 | 1,715 | 516 | 141 |
| June | 11 | 22 | 9 | 15 | 4 | 17 | 24 | 15 | 23 | 51 |
| July | 7,075 | 6,362 | 5,006 | 4,800 | 1,176 | 1,879 | 2,509 | 3,745 | 4,537 | 3,668 |
| August | 8,186 | 17,595 | 7,740 | 9,641 | 8,056 | 12,746 | 12,432 | 22,910 | 18,877 | 16,818 |
| September | 3,856 | 11,784 | 7,223 | 5,778 | 1,204 | 7,763 | 9,016 | 9,273 | 2,002 | 9,029 |
| October | 99 | 145 | 132 | 92 | 55 | 1,217 | 817 | 657 | 8 | 1,211 |
| November | 18 | 15 | 21 | 11 | 20 | 2 | 2 | 7 | 0 | 7 |
| December | - | 1 | 1 | - | 3 | - | 0 | 2 | - | - |
|  | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 7}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 0}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 7}$ | $\mathbf{7 9 , 9 9 6}$ | $\mathbf{8 1 , 9 0 8}$ | $\mathbf{6 0 , 7 3 2}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 2,614 | 3,353 | 2,261 | 2,442 | 1,676 | 2,851 | 6,677 | 4,615 | 4,026 | 859 |
| FK | 30,580 | 62,671 | 35,243 | 42,927 | 26,478 | 40,823 | 54,039 | 70,680 | 73,148 | 56,427 |
| KR | 54 | 87 | 34 | 39 | 2 | 7 | 12 | 1 | 2 | 7 |
| UK | 1,426 | 4,786 | 2,629 | 3,292 | 2,161 | 2,767 | 3,948 | 4,699 | 4,732 | 3,439 |
|  | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 7}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 0}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 7}$ | $\mathbf{7 9 , 9 9 6}$ | $\mathbf{8 1 , 9 0 8}$ | $\mathbf{6 0 , 7 3 2}$ |

## Doryteuthis gahi - Falkland Calamari

Table E. 4 Total catch (tonnes) by license used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 113 | 185 | 147 | 169 | 49 | 142 | 143 | 63 | 60 | 164 |
| B | 14 | 20 | - | - | - | - | 6 | 0 | 2 | 7 |
| C | 15,288 | 34,727 | 19,906 | 28,117 | 19,424 | 22,619 | 39,425 | 43,086 | 55,586 | 29,116 |
| E | 379 | 662 | 278 | 513 | 523 | 421 | 856 | 878 | 1,254 | 1,287 |
| F | 37 | 66 | 42 | 42 | 15 | 10 | 9 | 1 | 2 | 17 |
| $\mathbf{G}$ | 37 | 70 | 42 | 48 | 20 | 50 | 62 | 91 | 141 | 254 |
| S | - | 0 | 0 | - | - | - | - | 0 | - | - |
| W | 81 | 140 | 133 | 156 | 96 | 115 | 89 | 49 | 116 | 128 |
| $\mathbf{X}$ | 18,726 | 35,026 | 19,620 | 19,656 | 10,190 | 23,090 | 24,085 | 35,828 | 24,748 | 29,759 |

Table E. 5 Total catch (tonnes) by gross tonnage (GT) and year

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 45 | 97 | 58 | 30 | 13 | 48 | 62 | 22 | 29 | 66 |
| $\mathbf{8 0 0 - 9 9 9}$ | 1,892 | 3,405 | 2,157 | 2,371 | 1,598 | 2,509 | 2,666 | 65 | 57 | 82 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 5,967 | 11,167 | 6,988 | 7,906 | 5,056 | 7,935 | 10,897 | 16,263 | 16,448 | 13,410 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 9,554 | 21,284 | 11,990 | 14,603 | 9,377 | 13,775 | 21,467 | 25,104 | 26,130 | 18,810 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 17,212 | 34,932 | 18,969 | 23,784 | 14,272 | 22,180 | 29,584 | 38,542 | 39,244 | 28,364 |
| $\mathbf{> 2 , 9 9 9}$ | 4 | 13 | 7 | 5 | - | - | - | - | - | - |
|  | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 7}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 0}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 7}$ | $\mathbf{7 9 , 9 9 6}$ | $\mathbf{8 1 , 9 0 8}$ | $\mathbf{6 0 , 7 3 2}$ |

Table E. 6 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 12 | - | 1 | 0 | 3 | 2 | - | 0 | - | 6 |
| $\mathbf{4 5 - 4 9}$ | 1,702 | 3,321 | 2,111 | 2,318 | 1,577 | 2,431 | 1,368 | 41 | - | - |
| $\mathbf{5 0 - 5 4}$ | 79 | 175 | 86 | 66 | 15 | 59 | 74 | 21 | 31 | 79 |
| $\mathbf{5 5 - 5 9}$ | 169 | 63 | 33 | 20 | 3 | 74 | 47 | 24 | 42 | 12 |
| $\mathbf{6 0 - 6 4}$ | 27 | 801 | 340 | 252 | 36 | 278 | 16 | 4,735 | 4,828 | 4,205 |
| $\mathbf{6 5 - 6 9}$ | 6,729 | 15,702 | 9,404 | 11,389 | 7,275 | 10,677 | 15,970 | 16,474 | 12,620 | 10,255 |
| $\mathbf{7 0 - 7 9}$ | 16,643 | 32,318 | 18,060 | 21,758 | 13,623 | 20,214 | 31,793 | 34,588 | 40,846 | 28,781 |
| $\mathbf{8 0 - 8 9}$ | 4,335 | 8,114 | 4,772 | 5,937 | 3,381 | 5,471 | 8,317 | 10,800 | 10,479 | 8,396 |
| $>\mathbf{8 9}$ | 4,979 | 10,403 | 5,361 | $\mathbf{6 , 9 5 9}$ | 4,403 | 7,241 | 7,092 | 13,312 | 13,061 | 8,998 |
|  | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 7}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 0}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 7}$ | $\mathbf{7 9 , 9 9 6}$ | $\mathbf{8 1 , 9 0 8}$ | $\mathbf{6 0 , 7 3 2}$ |





## Doryteuthis gahi - Falkland Calamari

Length- frequency distribution and length-weight relationship during First Season 2020



## Doryteuthis gahi - Falkland Calamari

Length- frequency distribution and length-weight relationship during Second Season 2020



## Micromesistius australis - Southern Blue Whiting

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

| VESSEL TYPE | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 3,940 | 1,596 | 2,698 | 3,612 | 2,790 | 5,415 | 2,309 | 992 | 518 | 69 |
|  | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ | $\mathbf{5 1 8}$ | $\mathbf{6 9}$ |

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

| MONTH | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 199 | 36 | 162 | - | - | 1,189 | 157 | - | 190 | 25 |
| February | 233 | 39 | 375 | 123 | 184 | 1,420 | 283 | 59 | 132 | 31 |
| March | 26 | 219 | 205 | 137 | 28 | 1,002 | 176 | 64 | 3 | 0 |
| April | 220 | 95 | 116 | 127 | 5 | 816 | 14 | 21 | 1 | 0 |
| May | 27 | 7 | 84 | 0 | 4 | 83 | 1 | 12 | 0 | 0 |
| June | 10 | 3 | 8 | 15 | - | 1 | - | - | 0 | - |
| July | 7 | 9 | 47 | 14 | 1 | 2 | 3 | 1 | 0 | 1 |
| August | 543 | 727 | 897 | 55 | 97 | 580 | 616 | 704 | 192 | 0 |
| September | 496 | 138 | 758 | 1,670 | 121 | 116 | 515 | 52 | 0 | 2 |
| October | 5 | 211 | 14 | 212 | 147 | 40 | 482 | 2 | 0 | 10 |
| November | 1,369 | 31 | 1 | 1,211 | 1,687 | 52 | 60 | 2 | - | 0 |
| December | 805 | 81 | 32 | 47 | 517 | 114 | 2 | 76 | - | - |
|  | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ | $\mathbf{5 1 8}$ | $\mathbf{6 9}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{C L}$ | - | - | - | 1,155 | - | - | - | - | - | - |
| ES | 818 | 1,157 | 834 | 578 | 2,488 | 4,578 | 1,796 | 925 | 431 | 49 |
| FK | 764 | 412 | 1,669 | 1,795 | 273 | 800 | 509 | 67 | 87 | 20 |
| JP | 2,282 | 24 | - | - | - | - | - | - | - | - |
| KR | 31 | 3 | 32 | 2 | 0 | 8 | - | - | - | - |
| UK | 45 | 1 | 163 | 82 | 29 | 29 | 4 | 0 | - | 0 |
|  | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ | $\mathbf{5 1 8}$ | $\mathbf{6 9}$ |

## Micromesistius australis - Southern Blue Whiting

Table F. 4 Total catch (tonnes) by license used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 331 | 155 | 161 | 38 | 193 | 404 | 32 | 28 | 5 | 0 |
| $\mathbf{C}$ | 0 | 1 | 28 | 46 | 15 | 0 | 7 | - | 0 | 0 |
| $\mathbf{E}$ | 63 | 20 | 84 | 85 | 32 | 85 | 98 | 30 | 14 | 11 |
| $\mathbf{F}$ | 31 | 11 | 2 | 3 | 68 | 8 | 0 | - | - | - |
| $\mathbf{G}$ | 193 | 253 | 306 | 196 | 26 | 1,566 | 154 | 53 | 4 | - |
| $\mathbf{S}$ | 2,282 | 47 | 1 | 1,155 | 0 | 18 | - | - | - | - |
| $\mathbf{W}$ | 565 | 912 | 799 | 412 | 2,266 | 3,204 | 1,740 | 846 | 495 | 55 |
| $\mathbf{X}$ | 475 | 197 | 1,316 | 1,677 | 190 | 130 | 278 | 35 | 0 | 2 |
|  | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ | $\mathbf{5 1 8}$ | $\mathbf{6 9}$ |

Table F. 5 Total catch (tonnes) by gross tonnage (GT) and year

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 65 | 165 | 127 | 29 | 28 | 499 | 65 | 2 | 0 | 0 |
| $\mathbf{8 0 0 - 9 9 9}$ | 115 | 142 | 299 | 171 | 569 | 1,118 | 195 | 52 | 40 | 10 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 229 | 225 | 657 | 810 | 1,449 | 1,845 | 857 | 204 | 211 | 21 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 1,024 | 882 | 910 | 455 | 597 | 1,812 | 956 | 724 | 214 | 37 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 226 | 158 | 705 | 991 | 148 | 141 | 237 | 9 | 52 | 1 |
| $\mathbf{> 2 , 9 9 9}$ | 2,282 | 24 | - | 1,155 | - | - | - | - | - | - |
|  | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ | $\mathbf{5 1 8}$ | $\mathbf{6 9}$ |

Table F. 6 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 1 | - | - | - | 132 | 26 | - | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 14 | 47 | 80 | 96 | 57 | 23 | 1 | 1 | - | - |
| $\mathbf{5 0 - 5 4}$ | 93 | 164 | 209 | 41 | 34 | 527 | 105 | 1 | 0 | 0 |
| $\mathbf{5 5 - 5 9}$ | 85 | 129 | 337 | 35 | 189 | 400 | 121 | 5 | 22 | - |
| $\mathbf{6 0 - 6 4}$ | 22 | 112 | 133 | 101 | 590 | 1,317 | 432 | 144 | 106 | 11 |
| $\mathbf{6 5 - 6 9}$ | 695 | 873 | 661 | 709 | 887 | 2,060 | 1,061 | 806 | 310 | 30 |
| $\mathbf{7 0 - 7 9}$ | 343 | 158 | 640 | 539 | 792 | 1,032 | 409 | 25 | 80 | 27 |
| $\mathbf{8 0 - 8 9}$ | 211 | 50 | 240 | 490 | 32 | 5 | 107 | 5 | - | 1 |
| $>\mathbf{8 9}$ | 2,475 | 62 | 397 | 1,602 | $\mathbf{7 8}$ | 25 | 72 | 3 | - | 0 |
|  | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ | $\mathbf{5 1 8}$ | $\mathbf{6 9}$ |



## Micromesistius australis - Southern Blue Whiting

Length- frequency distribution and length-weight relationship in 2020



## Macruronus magellanicus-Hoki

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

| VESSEL TYPE | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 22,979 | 15,867 | 16,849 | 7,392 | 6,845 | 11,562 | 4,053 | 4,439 | 7,407 | 7,643 |
|  | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 9}$ | $\mathbf{7 , 4 0 7}$ | $\mathbf{7 , 6 4 3}$ |

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

| MONTH | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 635 | 230 | 2,010 | - | - | 211 | 22 | - | 3,988 | 1,682 |
| February | 1,289 | 535 | 2,196 | 754 | 484 | 4,655 | 146 | 639 | 2,078 | 3,378 |
| March | 1,264 | 2,414 | 1,745 | 1,521 | 3,836 | 2,277 | 530 | 901 | 1,046 | 267 |
| April | 5,769 | 2,508 | 3,043 | 2,811 | 1,610 | 2,596 | 770 | 503 | 77 | 766 |
| May | 2,609 | 652 | 3,414 | 774 | 256 | 1,082 | 733 | 1,162 | 8 | 821 |
| June | 1,143 | 311 | 553 | 350 | 36 | 99 | 19 | 4 | 3 | 465 |
| July | 2,775 | 839 | 233 | 56 | 5 | 25 | 273 | 29 | 2 | 136 |
| August | 2,387 | 1,739 | 761 | 82 | 64 | 90 | 316 | 2 | 5 | 30 |
| September | 978 | 557 | 1,239 | 800 | 181 | 6 | 47 | 28 | 9 | 34 |
| October | 357 | 3,617 | 362 | 9 | 35 | 45 | 878 | 127 | 9 | 62 |
| November | 1,082 | 2,183 | 1,091 | 229 | 239 | 290 | 311 | 217 | 0 | 3 |
| December | 2,690 | 283 | 203 | 6 | 101 | 185 | 9 | 827 | 182 | - |
|  | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 9}$ | $\mathbf{7 , 4 0 7}$ | $\mathbf{7 , 6 4 3}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | 207 | - | - | - | - | - | - |
| ES | 15,867 | 11,628 | 11,569 | 5,275 | 5,705 | 8,886 | 3,548 | 3,880 | 6,114 | 5,997 |
| FK | 3,808 | 3,433 | 4,755 | 1,889 | 959 | 2,378 | 467 | 555 | 1,291 | 1,531 |
| JP | 2,457 | 85 | - | - | - | - | - | - | - | - |
| KR | 594 | 712 | 481 | 20 | 147 | 211 | 19 | 3 | 2 | 0 |
| UK | 253 | 10 | 45 | 1 | 35 | 87 | 18 | 0 | 0 | 115 |
|  | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 9}$ | $\mathbf{7 , 4 0 7}$ | $\mathbf{7 , 6 4 3}$ |

## Macruronus magellanicus-Hoki

Table G. 4 Total catch (tonnes) by license used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 4,160 | 2,524 | 2,423 | 701 | 757 | 1,421 | 259 | 234 | 176 | 128 |
| $\mathbf{B}$ | 24 | 26 | 3 | 6 | 26 | - | 8 | 1 | 2 | 0 |
| $\mathbf{C}$ | 162 | 57 | 27 | 5 | 1 | 0 | 1 | 0 | 8 | 88 |
| $\mathbf{E}$ | 72 | 52 | 133 | 56 | 63 | 53 | 79 | 31 | 9 | 14 |
| $\mathbf{F}$ | 518 | 475 | 136 | 25 | 64 | 55 | 21 | 4 | 1 | - |
| $\mathbf{G}$ | 8,015 | 4,791 | 7,036 | 4,090 | 4,932 | 5,232 | 1,858 | 1,779 | 941 | 1,446 |
| $\mathbf{S}$ | 2,457 | 85 | - | 207 | 2 | 3 | - | - | - | - |
| $\mathbf{W}$ | 7,299 | 7,784 | 7,028 | 2,300 | 884 | 4,799 | 1,775 | 2,364 | 6,262 | 5,938 |
| $\mathbf{X}$ | 272 | 74 | 63 | 1 | 117 | 0 | 51 | 26 | 7 | 29 |
|  | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 9}$ | $\mathbf{7 , 4 0 7}$ | $\mathbf{7 , 6 4 3}$ |

Table G. 5 Total catch (tonnes) by gross tonnage (GT) and year

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 2,714 | 2,568 | 1,478 | 497 | 1,051 | 1,155 | 323 | 307 | 110 | 263 |
| $\mathbf{8 0 0 - 9 9 9}$ | 3,119 | 3,532 | 3,238 | 1,634 | 1,845 | 3,569 | 615 | 768 | 1,999 | 1,288 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 8,562 | 6,957 | 8,740 | 3,477 | 3,055 | 2,992 | 2,371 | 2,163 | 4,009 | 3,461 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 5,894 | 2,529 | 3,177 | 1,566 | 858 | 3,813 | 644 | 1,201 | 934 | 2,473 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 221 | 100 | 214 | 8 | 38 | 31 | 100 | 0 | 354 | 158 |
| $\mathbf{> 2 , 9 9 9}$ | 2,469 | 181 | 2 | 210 | - | 1 | - | - | - | - |
|  | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 9}$ | $\mathbf{7 , 4 0 7}$ | $\mathbf{7 , 6 4 3}$ |

Table G. 6 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 217 | - | - | - | 10 | 167 | - | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 843 | 855 | 507 | 77 | 156 | 234 | 0 | 56 | - | - |
| $\mathbf{5 0 - 5 4}$ | 2,746 | 3,502 | 2,142 | 775 | 1,655 | 1,619 | 355 | 305 | 112 | 601 |
| $\mathbf{5 5 - 5 9}$ | 3,304 | 3,012 | 3,337 | 800 | 1,641 | 1,203 | 699 | 647 | 1,408 | 126 |
| $\mathbf{6 0 - 6 4}$ | 4,506 | 3,308 | 3,680 | 1,479 | 1,209 | 1,694 | 1,487 | 1,420 | 1,693 | 1,485 |
| $\mathbf{6 5 - 6 9}$ | 4,735 | 2,375 | 3,545 | 2,973 | 740 | 3,792 | 1,144 | 1,235 | 3,238 | 3,685 |
| $\mathbf{7 0 - 7 9}$ | 3,472 | 2,550 | 3,571 | 999 | 1,386 | 2,805 | 267 | 719 | 948 | 1,655 |
| $\mathbf{8 0 - 8 9}$ | 597 | 61 | 9 | 79 | 40 | 45 | 79 | 56 | 0 | 80 |
| $>\mathbf{8 9}$ | 2,559 | 204 | 57 | 211 | 8 | 1 | 22 | 0 | 7 | 11 |
|  | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 9}$ | $\mathbf{7 , 4 0 7}$ | $\mathbf{7 , 6 4 3}$ |



## Macruronus magellanicus-Hoki

Length- frequency distribution and length-weight relationship in 2020



## Salilota australis - Red cod

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

| VESSEL TYPE | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | 0 | - | 0 | - | - | - | - | - | - | 0 |
| TR | 4,210 | 4,629 | 5,164 | 3,467 | 3,340 | 3,143 | 1,379 | 1,655 | 1,768 | 1,418 |
|  | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 5}$ | $\mathbf{1 , 7 6 8}$ | $\mathbf{1 , 4 1 8}$ |

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

| MONTH | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 100 | 62 | 215 | - | 0 | 143 | 33 | - | 310 | 101 |
| February | 236 | 351 | 480 | 114 | 63 | 479 | 24 | 47 | 367 | 306 |
| March | 157 | 341 | 311 | 221 | 557 | 181 | 101 | 64 | 220 | 42 |
| April | 438 | 340 | 325 | 477 | 685 | 270 | 245 | 154 | 169 | 110 |
| May | 749 | 370 | 514 | 768 | 310 | 527 | 138 | 451 | 168 | 175 |
| June | 213 | 125 | 77 | 398 | 131 | 198 | 38 | 102 | 116 | 144 |
| July | 309 | 150 | 162 | 135 | 174 | 138 | 134 | 200 | 131 | 103 |
| August | 605 | 656 | 1,199 | 376 | 161 | 369 | 223 | 134 | 167 | 65 |
| September | 474 | 580 | 1,299 | 195 | 329 | 135 | 248 | 108 | 72 | 168 |
| October | 273 | 615 | 283 | 532 | 631 | 562 | 144 | 163 | 26 | 166 |
| November | 436 | 626 | 230 | 189 | 200 | 74 | 40 | 129 | 3 | 37 |
| December | 221 | 411 | 68 | 63 | 99 | 66 | 12 | 103 | 19 | 0 |
|  | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 5}$ | $\mathbf{1 , 7 6 8}$ | $\mathbf{1 , 4 1 8}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 2,851 | 3,441 | 3,592 | 2,530 | 2,776 | 2,237 | 1,027 | 1,073 | 1,400 | 1,122 |
| FK | 1,317 | 1,167 | 1,522 | 874 | 505 | 878 | 319 | 565 | 353 | 292 |
| JP | 0 | - | - | - | - | - | - | - | - | - |
| KR | 6 | 16 | 33 | 57 | 47 | 18 | 14 | 17 | 1 | 0 |
| UK | 36 | 5 | 17 | 5 | 12 | 10 | 18 | 0 | 15 | 4 |
|  | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 5}$ | $\mathbf{1 , 7 6 8}$ | $\mathbf{1 , 4 1 8}$ |

## Salilota australis - Red cod

Table H. 4 Total catch (tonnes) by license used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 975 | 1,151 | 927 | 714 | 430 | 602 | 253 | 738 | 297 | 297 |
| $\mathbf{B}$ | 2 | 1 | - | 5 | 11 | - | 3 | 1 | 1 | 0 |
| $\mathbf{C}$ | 71 | 2 | 4 | 26 | 70 | 4 | 50 | 3 | 18 | 2 |
| $\mathbf{E}$ | 26 | 38 | 61 | 20 | 27 | 21 | 16 | 18 | 42 | 4 |
| $\mathbf{F}$ | 3 | 11 | 41 | 36 | 77 | 24 | 14 | 11 | 2 | 29 |
| $\mathbf{G}$ | 1,084 | 877 | 949 | 902 | 1,272 | 838 | 397 | 401 | 409 | 259 |
| $\mathbf{L}$ | 0 | - | 0 | - | - | - | - | - | - | - |
| $\mathbf{S}$ | 0 | - | - | - | - | - | - | - | - | - |
| $\mathbf{W}$ | 1,842 | 2,448 | 2,779 | 1,676 | 1,425 | 1,590 | 574 | 471 | 963 | 733 |
| $\mathbf{X}$ | 207 | 100 | 403 | 88 | 28 | 64 | 71 | 11 | 35 | 92 |
|  | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 5}$ | $\mathbf{1 , 7 6 8}$ | $\mathbf{1 , 4 1 8}$ |

Table H. 5 Total catch (tonnes) by gross tonnage (GT) and year

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 484 | 633 | 467 | 508 | 401 | 480 | 143 | 360 | 171 | 100 |
| $\mathbf{8 0 0 - 9 9 9}$ | 444 | 618 | 610 | 600 | 648 | 783 | 275 | 336 | 372 | 202 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 1,889 | 2,004 | 2,584 | 1,399 | 1,387 | 793 | 409 | 517 | 790 | 560 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 1,268 | 1,285 | 1,256 | 881 | 869 | 1,053 | 469 | 425 | 399 | 459 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 124 | 89 | 248 | 77 | 34 | 34 | 83 | 17 | 36 | 96 |
| $\mathbf{> 2 , 9 9 9}$ | 0 | - | - | 2 | - | 0 | - | - | - | - |
|  | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 5}$ | $\mathbf{1 , 7 6 8}$ | $\mathbf{1 , 4 1 8}$ |

Table H. 6 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 78 | - | 9 | 3 | 8 | 56 | - | 2 | - | 8 |
| $\mathbf{4 5 - 4 9}$ | 173 | 214 | 123 | 98 | 111 | 99 | 12 | 114 | - | - |
| $\mathbf{5 0 - 5 4}$ | 331 | 719 | 585 | 662 | 509 | 584 | 230 | 390 | 239 | 182 |
| $\mathbf{5 5 - 5 9}$ | 819 | 827 | 652 | 309 | 418 | 293 | 177 | 137 | 314 | 84 |
| $\mathbf{6 0 - 6 4}$ | 731 | 868 | 1,333 | 720 | 493 | 351 | 122 | 250 | 250 | 235 |
| $\mathbf{6 5 - 6 9}$ | 1,508 | 1,435 | 1,418 | 1,005 | 1,086 | 939 | 421 | 398 | 619 | 513 |
| $\mathbf{7 0 - 7 9}$ | 452 | 483 | 903 | 630 | 695 | 772 | 369 | 305 | 336 | 319 |
| $\mathbf{8 0 - 8 9}$ | 59 | 12 | 18 | 16 | 12 | 48 | 28 | 54 | 4 | 30 |
| $>\mathbf{8 9}$ | 59 | 70 | 123 | 25 | 8 | 2 | 19 | 5 | 6 | 47 |
|  | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 5}$ | $\mathbf{1 , 7 6 8}$ | $\mathbf{1 , 4 1 8}$ |



## Salilota australis - Red cod

Length- frequency distribution and length-weight relationship in 2020



## Merluccius spp - Hakes

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

| VESSEL TYPE | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | - | - | 0 | - | - | - | - | - | - | - |
| TR | 9,936 | 10,486 | 12,317 | 14,865 | 21,068 | 23,894 | 15,759 | 27,094 | 53,474 | 43,375 |
|  | $\mathbf{9 , 9 3 6}$ | $\mathbf{1 0 , 4 8 6}$ | $\mathbf{1 2 , 3 1 7}$ | $\mathbf{1 4 , 8 6 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 4}$ | $\mathbf{5 3 , 4 7 4}$ | $\mathbf{4 3 , 3 7 5}$ |

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

| MONTH | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 12 | 4 | 56 | - | 1 | 62 | 10 | - | 42 | 18 |
| February | 199 | 65 | 166 | 30 | 29 | 231 | 11 | 12 | 164 | 50 |
| March | 260 | 517 | 232 | 224 | 382 | 155 | 237 | 144 | 1,708 | 294 |
| April | 2,005 | 1,388 | 1,169 | 680 | 1,266 | 821 | 2,236 | 1,130 | 6,642 | 3,640 |
| May | 1,979 | 1,895 | 1,615 | 3,168 | 3,277 | 5,847 | 2,589 | 5,183 | 11,418 | 7,335 |
| June | 726 | 1,125 | 1,129 | 2,506 | 1,912 | 3,500 | 1,696 | 4,130 | 10,181 | 6,949 |
| July | 858 | 942 | 1,225 | 2,065 | 3,508 | 3,461 | 2,875 | 5,242 | 9,947 | 7,025 |
| August | 1,145 | 2,473 | 2,468 | 2,706 | 3,619 | 3,453 | 1,821 | 3,830 | 7,215 | 5,000 |
| September | 1,598 | 1,260 | 2,638 | 2,431 | 5,153 | 3,273 | 3,414 | 4,124 | 5,403 | 6,769 |
| October | 930 | 644 | 1,480 | 862 | 1,823 | 3,054 | 840 | 3,177 | 743 | 5,379 |
| November | 201 | 151 | 135 | 189 | 62 | 27 | 23 | 107 | 9 | 917 |
| December | 22 | 21 | 4 | 3 | 36 | 10 | 5 | 15 | 3 | - |
|  | $\mathbf{9 , 9 3 6}$ | $\mathbf{1 0 , 4 8 6}$ | $\mathbf{1 2 , 3 1 7}$ | $\mathbf{1 4 , 8 6 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 4}$ | $\mathbf{5 3 , 4 7 4}$ | $\mathbf{4 3 , 3 7 5}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{C L}$ | - | - | - | 0 | - | - | - | - | - | - |
| ES | 6,019 | 6,950 | 7,253 | 10,454 | 15,429 | 18,858 | 11,019 | 19,434 | 45,145 | 38,963 |
| FK | 3,506 | 3,182 | 4,884 | 4,196 | 5,072 | 4,739 | 4,443 | 7,338 | 7,981 | 4,300 |
| JP | 1 | - | - | - | - | - | - | - | - | - |
| KR | 221 | 283 | 130 | 159 | 351 | 191 | 199 | 210 | 25 | 26 |
| UK | 190 | 71 | 50 | 56 | 215 | 106 | 98 | 112 | 322 | 85 |
|  | $\mathbf{9 , 9 3 6}$ | $\mathbf{1 0 , 4 8 6}$ | $\mathbf{1 2 , 3 1 7}$ | $\mathbf{1 4 , 8 6 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 4}$ | $\mathbf{5 3 , 4 7 4}$ | $\mathbf{4 3 , 3 7 5}$ |

## Merluccius spp - Hakes

Table I. 4 Total catch (tonnes) by license used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 5,055 | 5,322 | 6,934 | 8,475 | 12,231 | 15,620 | 11,181 | 20,405 | 27,260 | 20,863 |
| $\mathbf{B}$ | 49 | 64 | 0 | 22 | 29 | - | 76 | 46 | 25 | 26 |
| $\mathbf{C}$ | 16 | 1 | - | 2 | - | 8 | 11 | 69 | 125 | 117 |
| $\mathbf{E}$ | 14 | 58 | 69 | 4 | 11 | 3 | 33 | 39 | 92 | 81 |
| $\mathbf{F}$ | 236 | 301 | 269 | 313 | 716 | 406 | 191 | 116 | 214 | 494 |
| $\mathbf{G}$ | 2,250 | 2,229 | 1,792 | 1,977 | 2,962 | 3,285 | 3,034 | 3,285 | 11,207 | 8,255 |
| $\mathbf{L}$ | - | - | 0 | - | - | - | - | - | - | - |
| $\mathbf{S}$ | 1 | - | - | 0 | 0 | - | - | - | - | - |
| $\mathbf{W}$ | 2,267 | 2,470 | 3,233 | 4,070 | 5,088 | 4,530 | 1,174 | 3,047 | 14,461 | 13,284 |
| $\mathbf{X}$ | 47 | 41 | 20 | 2 | 31 | 42 | 60 | 88 | 90 | 255 |
|  | $\mathbf{9 , 9 3 6}$ | $\mathbf{1 0 , 4 8 6}$ | $\mathbf{1 2 , 3 1 7}$ | $\mathbf{1 4 , 8 6 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 4}$ | $\mathbf{5 3 , 4 7 4}$ | $\mathbf{4 3 , 3 7 5}$ |

Table I. 5 Total catch (tonnes) by gross tonnage (GT) and year

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 1,138 | 1,178 | 1,251 | 1,815 | 2,201 | 2,171 | 2,336 | 3,085 | 6,069 | 2,840 |
| $\mathbf{8 0 0 - 9 9 9}$ | 872 | 762 | 1,715 | 2,055 | 3,843 | 4,452 | 2,699 | 8,379 | 12,741 | 8,986 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 5,907 | 6,939 | 7,149 | 7,916 | 10,035 | 12,016 | 5,998 | 10,607 | 20,446 | 19,712 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 1,904 | 1,483 | 2,125 | 3,030 | 4,115 | 5,034 | 4,516 | 4,931 | 14,125 | 11,171 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 90 | 42 | 70 | 41 | 874 | 213 | 210 | 92 | 92 | 667 |
| $\mathbf{> 2 , 9 9 9}$ | 25 | 81 | 7 | 7 | - | 9 | - | - | - | - |
|  | $\mathbf{9 , 9 3 6}$ | $\mathbf{1 0 , 4 8 6}$ | $\mathbf{1 2 , 3 1 7}$ | $\mathbf{1 4 , 8 6 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 4}$ | $\mathbf{5 3 , 4 7 4}$ | $\mathbf{4 3 , 3 7 5}$ |

Table I. 6 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 165 | - | 6 | 15 | 42 | 51 | - | 109 | - | 377 |
| $\mathbf{4 5 - 4 9}$ | 641 | 496 | 852 | 564 | 1,358 | 990 | 767 | 1,961 | - | - |
| $\mathbf{5 0 - 5 4}$ | 839 | 1,195 | 1,256 | 2,009 | 2,640 | 3,269 | 3,067 | 4,963 | 8,922 | 5,422 |
| $\mathbf{5 5 - 5 9}$ | 1,719 | 2,218 | 2,760 | 1,836 | 1,856 | 2,760 | 2,147 | 3,911 | 10,772 | 7,063 |
| $\mathbf{6 0 - 6 4}$ | 2,100 | 2,747 | 2,813 | 4,415 | 4,671 | 6,149 | 1,640 | 3,835 | 8,285 | 8,422 |
| $\mathbf{6 5 - 6 9}$ | 2,698 | 2,100 | 2,160 | 2,892 | 5,786 | 6,329 | 3,747 | 7,278 | 15,758 | 13,458 |
| $\mathbf{7 0 - 7 9}$ | 1,606 | 1,605 | 2,304 | 3,127 | 4,498 | 4,063 | 3,489 | 4,798 | 9,311 | 7,898 |
| $\mathbf{8 0 - 8 9}$ | 133 | 3 | 155 | - | 212 | 265 | 720 | 193 | 389 | 403 |
| $>\mathbf{8 9}$ | 36 | 122 | 10 | 7 | 4 | 18 | 182 | 47 | 37 | 333 |
|  | $\mathbf{9 , 9 3 6}$ | $\mathbf{1 0 , 4 8 6}$ | $\mathbf{1 2 , 3 1 7}$ | $\mathbf{1 4 , 8 6 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 4}$ | $\mathbf{5 3 , 4 7 4}$ | $\mathbf{4 3 , 3 7 5}$ |



## Merluccius spp - Hakes

Length- frequency distribution and length-weight relationship in M.hubbsi in 2020



## Genypterus blacodes - Kingclip

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

| VESSEL TYPE | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| TR | 3,867 | 3,510 | 3,977 | 2,881 | 2,983 | 1,612 | 1,632 | 1,443 | 1,711 | 1,625 |
|  | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 3}$ | $\mathbf{1 , 7 1 1}$ | $\mathbf{1 , 6 2 5}$ |

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

| MONTH | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 163 | 12 | 108 | - | 1 | 62 | 12 | - | 98 | 27 |
| February | 296 | 138 | 188 | 65 | 50 | 175 | 7 | 22 | 109 | 73 |
| March | 214 | 277 | 153 | 141 | 200 | 52 | 67 | 41 | 148 | 45 |
| April | 429 | 338 | 281 | 189 | 250 | 134 | 110 | 110 | 247 | 157 |
| May | 728 | 389 | 358 | 372 | 314 | 205 | 107 | 276 | 280 | 215 |
| June | 141 | 134 | 114 | 324 | 288 | 78 | 42 | 115 | 268 | 248 |
| July | 226 | 170 | 140 | 296 | 159 | 154 | 168 | 219 | 281 | 257 |
| August | 421 | 570 | 836 | 387 | 226 | 234 | 251 | 156 | 167 | 136 |
| September | 462 | 390 | 843 | 357 | 491 | 142 | 410 | 134 | 68 | 130 |
| October | 309 | 420 | 653 | 491 | 503 | 337 | 310 | 209 | 39 | 257 |
| November | 310 | 432 | 234 | 203 | 265 | 23 | 142 | 106 | 1 | 80 |
| December | 167 | 240 | 67 | 57 | 237 | 15 | 8 | 55 | 5 | - |
|  | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 3}$ | $\mathbf{1 , 7 1 1}$ | $\mathbf{1 , 6 2 5}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 2,933 | 2,583 | 3,053 | 2,219 | 2,370 | 1,280 | 1,386 | 1,069 | 1,459 | 1,461 |
| FK | 851 | 858 | 843 | 548 | 502 | 312 | 225 | 353 | 240 | 158 |
| JP | 0 | - | - | - | - | - | - | - | - | - |
| KR | 47 | 62 | 72 | 107 | 90 | 19 | 10 | 18 | 9 | 2 |
| UK | 35 | 7 | 9 | 7 | 22 | 1 | 11 | 4 | 2 | 4 |
|  | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 3}$ | $\mathbf{1 , 7 1 1}$ | $\mathbf{1 , 6 2 5}$ |

## Genypterus blacodes - Kingclip

Table J. 4 Total catch (tonnes) by license used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | 1,076 | 990 | 848 | 612 | 669 | 518 | 691 | 767 | 629 | 635 |
| B | 20 | 31 | 0 | 11 | 13 | - | 3 | 2 | 9 | 2 |
| C | 8 | 1 | 1 | 3 | 0 | 0 | 6 | 1 | 3 | 2 |
| E | 14 | 34 | 34 | 8 | 15 | 6 | 8 | 5 | 10 | 5 |
| F | 53 | 40 | 84 | 66 | 85 | 13 | 15 | 12 | 5 | 77 |
| G | 1,104 | 755 | 695 | 469 | 663 | 338 | 238 | 288 | 443 | 328 |
| S | 0 | - | - | - | - | - | - | - | - | - |
| W | 1,566 | 1,649 | 2,299 | 1,712 | 1,537 | 692 | 669 | 368 | 606 | 572 |
| X | 28 | 9 | 17 | 2 | 1 | 46 | 2 | 1 | 7 | 4 |
|  | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 3}$ | $\mathbf{1 , 7 1 1}$ | $\mathbf{1 , 6 2 5}$ |
|  | $\mathbf{3 , 6 3 9}$ | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 6}$ | $\mathbf{1 , 7 1 2}$ |

Table J. 5 Total catch (tonnes) by gross tonnage (GT) and year

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 481 | 518 | 410 | 291 | 338 | 141 | 146 | 186 | 163 | 110 |
| $\mathbf{8 0 0 - 9 9 9}$ | 404 | 456 | 904 | 710 | 612 | 434 | 204 | 347 | 387 | 349 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 2,000 | 1,905 | 1,889 | 1,182 | 1,350 | 543 | 710 | 541 | 711 | 676 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 972 | 625 | 760 | 683 | 648 | 465 | 552 | 367 | 441 | 455 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 11 | 5 | 14 | 13 | 36 | 30 | 20 | 2 | 9 | 34 |
| $\mathbf{> 2 , 9 9 9}$ | 0 | 1 | 0 | 2 | - | 0 | - | - | - | - |
|  | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 3}$ | $\mathbf{1 , 7 1 1}$ | $\mathbf{1 , 6 2 5}$ |

Table J. 6 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 101 | - | 11 | 13 | 24 | 41 | - | 6 | - | 11 |
| $\mathbf{4 5 - 4 9}$ | 173 | 177 | 182 | 63 | 105 | 31 | 23 | 111 | - | - |
| $\mathbf{5 0 - 5 4}$ | 348 | 548 | 601 | 558 | 494 | 260 | 212 | 247 | 267 | 273 |
| $\mathbf{5 5 - 5 9}$ | 773 | 803 | 818 | 303 | 291 | 204 | 183 | 218 | 375 | 185 |
| $\mathbf{6 0 - 6 4}$ | 820 | 816 | 950 | 464 | 639 | 251 | 87 | 210 | 244 | 314 |
| $\mathbf{6 5 - 6 9}$ | 1,151 | 786 | 814 | 992 | 956 | 437 | 642 | 376 | 490 | 481 |
| $\mathbf{7 0 - 7 9}$ | 474 | 375 | 579 | 481 | 470 | 361 | 448 | 249 | 316 | 321 |
| $\mathbf{8 0 - 8 9}$ | 26 | 2 | 19 | 2 | 5 | 27 | 25 | 24 | 15 | 36 |
| $>\mathbf{8 9}$ | 1 | 4 | 3 | 4 | - | 0 | 12 | 1 | 4 | 5 |
|  | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 3}$ | $\mathbf{1 , 7 1 1}$ | $\mathbf{1 , 6 2 5}$ |

Genypterus blacodes
First Season 2020 (01 Jan to 30 Jun)



## Genypterus blacodes - Kingclip

Length- frequency distribution and length-weight relationship in 2020



## Dissostichus eleginoides - Toothfish

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

| VESSEL TYPE | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | 1,221 | 1,085 | 1,301 | 1,252 | 1,123 | 1,023 | 1,030 | 982 | 1,049 | 1,044 |
| TR | 339 | 226 | 120 | 45 | 103 | 476 | 489 | 277 | 268 | 202 |
|  | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ | $\mathbf{1 , 3 1 7}$ | $\mathbf{1 , 2 4 6}$ |

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

| MONTH | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 131 | 136 | 140 | 125 | 161 | 172 | 24 | 116 | 141 | 165 |
| February | 138 | 159 | 91 | 109 | 111 | 146 | 9 | 40 | 130 | 167 |
| March | 84 | 122 | 133 | 73 | 142 | 218 | 23 | 163 | 142 | 173 |
| April | 182 | 159 | 193 | 121 | 118 | 157 | 37 | 161 | 198 | 163 |
| May | 161 | 131 | 153 | 36 | 71 | 156 | 174 | 56 | 44 | 89 |
| June | 82 | 91 | 22 | 72 | 49 | 105 | 72 | 7 | 6 | 9 |
| July | 180 | 133 | 128 | 130 | 134 | 160 | 168 | 30 | 8 | 7 |
| August | 216 | 162 | 196 | 37 | 130 | 217 | 39 | 27 | 50 | 8 |
| September | 165 | 101 | 207 | 234 | 34 | 30 | 115 | 148 | 144 | 33 |
| October | 55 | 19 | 2 | 115 | 19 | 46 | 241 | 200 | 196 | 194 |
| November | 30 | 23 | 8 | 107 | 18 | 36 | 384 | 157 | 103 | 98 |
| December | 136 | 76 | 146 | 139 | 239 | 55 | 233 | 154 | 153 | 139 |
|  | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ | $\mathbf{1 , 3 1 7}$ | $\mathbf{1 , 2 4 6}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | 353 | - | - | 249 | - | - | - |
| ES | 260 | 155 | 81 | 34 | 87 | 367 | 396 | 207 | 205 | 153 |
| FK | 1,287 | 1,150 | 1,339 | 911 | 1,134 | 1,122 | 833 | 1,045 | 1,111 | 1,092 |
| KR | 7 | 7 | 1 | 0 | 5 | 10 | 40 | 6 | 0 | - |
| UK | 6 | 0 | - | - | 0 | - | 1 | 1 | 0 | 2 |
|  | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ | $\mathbf{1 , 3 1 7}$ | $\mathbf{1 , 2 4 6}$ |

## Dissostichus eleginoides - Toothfish

Table K. 4 Total catch (tonnes) by license used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 72 | 47 | 16 | 6 | 6 | 44 | 50 | 77 | 33 | 22 |
| $\mathbf{B}$ | 0 | - | - | - | - | - | - | 0 | 0 | - |
| $\mathbf{C}$ | 2 | 0 | 2 | 0 | 2 | 12 | 9 | 5 | 5 | 2 |
| $\mathbf{E}$ | 38 | 2 | 1 | 0 | 1 | 5 | 3 | 3 | 2 | 1 |
| $\mathbf{F}$ | 11 | 8 | 1 | 0 | 8 | 13 | 42 | 6 | 1 | 1 |
| $\mathbf{G}$ | 64 | 63 | 56 | 27 | 7 | 114 | 68 | 89 | 45 | 21 |
| $\mathbf{L}$ | 1,221 | 1,085 | 1,301 | 1,252 | 1,123 | 1,020 | 1,030 | 982 | 1,049 | 1,043 |
| $\mathbf{S}$ | - | - | - | - | - | 0 | - | - | - | - |
| $\mathbf{W}$ | 128 | 99 | 38 | 11 | 75 | 250 | 300 | 93 | 179 | 153 |
| $\mathbf{X}$ | 24 | 6 | 5 | 1 | 4 | 40 | 16 | 5 | 2 | 2 |
|  | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ | $\mathbf{1 , 3 1 7}$ | $\mathbf{1 , 2 4 6}$ |

Table K. 5 Total catch (tonnes) by gross tonnage (GT) and year

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 31 | 44 | 10 | 7 | 5 | 35 | 19 | 34 | 20 | 12 |
| $\mathbf{8 0 0 - 9 9 9}$ | 1,263 | 1,118 | 1,197 | 906 | 1,141 | 1,198 | 98 | 61 | 58 | 30 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 84 | 66 | 166 | 370 | 51 | 77 | 482 | 93 | 122 | 90 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 176 | 82 | 44 | 15 | 29 | 173 | 909 | 1,067 | 1,109 | 1,109 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 6 | 2 | 3 | - | 1 | 16 | 10 | 4 | 8 | 5 |
| $\mathbf{> 2 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
|  | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ | $\mathbf{1 , 3 1 7}$ | $\mathbf{1 , 2 4 6}$ |

Table K. 6 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 7 | - | - | - | 5 | 21 | - | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 9 | 8 | 2 | 1 | 0 | 4 | 1 | 13 | - | - |
| $\mathbf{5 0 - 5 4}$ | 1,250 | 1,136 | 1,195 | 908 | 1,135 | 1,083 | 66 | 43 | 25 | 17 |
| $\mathbf{5 5 - 5 9}$ | 34 | 33 | 136 | 4 | 5 | 44 | 819 | 1,003 | 1,076 | 1,050 |
| $\mathbf{6 0 - 6 4}$ | 27 | 14 | 19 | 362 | 25 | 9 | 362 | 54 | 43 | 45 |
| $\mathbf{6 5 - 6 9}$ | 128 | 75 | 32 | 16 | 28 | 221 | 159 | 90 | 116 | 91 |
| $\mathbf{7 0 - 7 9}$ | 101 | 44 | 36 | 8 | 28 | 102 | 104 | 48 | 53 | 35 |
| $\mathbf{8 0 - 8 9}$ | 5 | - | - | - | 1 | 11 | 4 | 7 | 1 | 7 |
| $>\mathbf{8 9}$ | - | 2 | 0 | - | - | 4 | 3 | 1 | 1 | 1 |
|  | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ | $\mathbf{1 , 3 1 7}$ | $\mathbf{1 , 2 4 6}$ |

## Dissostichus eleginoides - Toothfish

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

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{8 0 0 - 9 9 9}$ | 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 | 1,049 | 1,044 |
|  | $\mathbf{1 , 2 2 1}$ | $\mathbf{1 , 0 8 5}$ | $\mathbf{1 , 3 0 1}$ | $\mathbf{1 , 2 5 2}$ | $\mathbf{1 , 1 2 3}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{1 , 0 3 0}$ | $\mathbf{9 8 2}$ | $\mathbf{1 , 0 4 9}$ | $\mathbf{1 , 0 4 4}$ |

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

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{5 0 - 5 4}$ | 1,221 | 1,085 | 1,184 | 900 | 1,123 | 1,023 | - | - | - | - |
| $\mathbf{5 5 - 5 9}$ | - | - | 117 | - | - | - | 781 | 982 | 1,049 | 1,044 |
| $\mathbf{6 0 - 6 4}$ | - | - | - | 353 | - | - | 249 | - | - | - |
|  | $\mathbf{1 , 2 2 1}$ | $\mathbf{1 , 0 8 5}$ | $\mathbf{1 , 3 0 1}$ | $\mathbf{1 , 2 5 2}$ | $\mathbf{1 , 1 2 3}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{1 , 0 3 0}$ | $\mathbf{9 8 2}$ | $\mathbf{1 , 0 4 9}$ | $\mathbf{1 , 0 4 4}$ |

Table K. 9 Total catch (tonnes) of trawlers by license used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | 72 | 47 | 16 | 6 | 6 | 44 | 50 | 77 | 33 | 22 |
| B | 0 | - | - | - | - | - | - | 0 | 0 | - |
| C | 2 | 0 | 2 | 0 | 2 | 12 | 9 | 5 | 5 | 2 |
| E | 38 | 2 | 1 | 0 | 1 | 2 | 3 | 3 | 2 | 1 |
| F | 11 | 8 | 1 | 0 | 8 | 13 | 42 | 6 | 1 | 1 |
| $\mathbf{G}$ | 64 | 63 | 56 | 27 | 7 | 114 | 68 | 89 | 45 | 21 |
| S | - | - | - | - | - | 0 | - | - | - | - |
| W | 128 | 99 | 38 | 11 | 75 | 250 | 300 | 93 | 179 | 153 |
| $\mathbf{X}$ | 24 | 6 | 5 | 1 | 4 | 40 | 16 | 5 | 2 | 2 |
|  | $\mathbf{3 3 9}$ | $\mathbf{2 2 6}$ | $\mathbf{1 2 0}$ | $\mathbf{4 5}$ | $\mathbf{1 0 3}$ | $\mathbf{4 7 6}$ | $\mathbf{4 8 9}$ | $\mathbf{2 7 7}$ | $\mathbf{2 6 8}$ | $\mathbf{2 0 2}$ |

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

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{6 0 0 - 7 9 9}$ | 31 | 44 | 10 | 7 | 5 | 35 | 19 | 34 | 20 | 12 |
| $\mathbf{8 0 0 - 9 9 9}$ | 41 | 33 | 13 | 6 | 18 | 175 | 98 | 61 | 58 | 30 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 84 | 66 | 49 | 17 | 51 | 77 | 233 | 93 | 122 | 90 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 176 | 82 | 44 | 15 | 29 | 173 | 128 | 85 | 61 | 65 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 6 | 2 | 3 | - | 1 | 16 | 10 | 4 | 8 | 5 |
|  | $\mathbf{3 3 9}$ | $\mathbf{2 2 6}$ | $\mathbf{1 2 0}$ | $\mathbf{4 5}$ | $\mathbf{1 0 3}$ | $\mathbf{4 7 6}$ | $\mathbf{4 8 9}$ | $\mathbf{2 7 7}$ | $\mathbf{2 6 8}$ | $\mathbf{2 0 2}$ |

## Dissostichus eleginoides - Toothfish

Table K. 11 Total catch (tonnes) of trawlers by gross tonnage (GT) and year

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 7 | - | - | - | 5 | 21 | - | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 9 | 8 | 2 | 1 | 0 | 4 | 1 | 13 | - | - |
| $\mathbf{5 0 - 5 4}$ | 29 | 51 | 12 | 8 | 11 | 60 | 66 | 43 | 25 | 17 |
| $\mathbf{5 5 - 5 9}$ | 34 | 33 | 19 | 4 | 5 | 44 | 38 | 21 | 28 | 6 |
| $\mathbf{6 0 - 6 4}$ | 27 | 14 | 19 | 9 | 25 | 9 | 113 | 54 | 43 | 45 |
| $\mathbf{6 5 - 6 9}$ | 128 | 75 | 32 | 16 | 28 | 221 | 159 | 90 | 116 | 91 |
| $\mathbf{7 0 - 7 9}$ | 101 | 44 | 36 | 8 | 28 | 102 | 104 | 48 | 53 | 35 |
| $\mathbf{8 0 - 8 9}$ | 5 | - | - | - | 1 | 11 | 4 | 7 | 1 | 7 |
| $>\mathbf{8 9}$ | - | 2 | 0 | - | - | 4 | 3 | 1 | 1 | 1 |
|  | $\mathbf{3 3 9}$ | $\mathbf{2 2 6}$ | $\mathbf{1 2 0}$ | $\mathbf{4 5}$ | $\mathbf{1 0 3}$ | $\mathbf{4 7 6}$ | $\mathbf{4 8 9}$ | $\mathbf{2 7 7}$ | $\mathbf{2 6 8}$ | $\mathbf{2 0 2}$ |



Length- frequency distribution and length-weight relationship in longliner fleet in 2020



## Dissostichus eleginoides - Toothfish

Length- frequency distribution and length-weight relationship in trawler fleet in 2020



## Rajidae - Skates and Rays

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

| VESSEL TYPE | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | 55 | 32 | 78 | 32 | 28 | 29 | 28 | 28 | 26 | 28 |
| TR | 6,916 | 6,620 | 5,855 | 5,522 | 6,365 | 5,877 | 3,161 | 1,967 | 1,477 | 1,368 |
|  | $\mathbf{6 , 9 7 2}$ | $\mathbf{6 , 6 5 2}$ | $\mathbf{5 , 9 3 3}$ | $\mathbf{5 , 5 5 4}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 5}$ | $\mathbf{1 , 5 0 4}$ | $\mathbf{1 , 3 9 7}$ |

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

| MONTH | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 185 | 15 | 278 | 5 | 8 | 592 | 27 | 1 | 107 | 42 |
| February | 360 | 216 | 288 | 125 | 154 | 440 | 8 | 27 | 111 | 111 |
| March | 126 | 511 | 219 | 144 | 119 | 129 | 67 | 80 | 124 | 78 |
| April | 588 | 320 | 413 | 208 | 184 | 225 | 205 | 130 | 138 | 86 |
| May | 879 | 398 | 428 | 394 | 348 | 663 | 285 | 398 | 232 | 124 |
| June | 398 | 404 | 267 | 267 | 693 | 669 | 390 | 133 | 220 | 189 |
| July | 849 | 701 | 394 | 289 | 878 | 522 | 466 | 268 | 223 | 225 |
| August | 1,446 | 1,568 | 1,228 | 1,372 | 1,110 | 627 | 436 | 130 | 172 | 134 |
| September | 992 | 802 | 867 | 1,479 | 1,359 | 585 | 420 | 130 | 110 | 184 |
| October | 691 | 1,099 | 868 | 560 | 829 | 1,201 | 626 | 211 | 57 | 197 |
| November | 317 | 438 | 369 | 523 | 330 | 120 | 96 | 121 | 3 | 18 |
| December | 141 | 181 | 313 | 188 | 380 | 132 | 163 | 366 | 7 | 8 |
|  | $\mathbf{6 , 9 7 2}$ | $\mathbf{6 , 6 5 2}$ | $\mathbf{5 , 9 3 3}$ | $\mathbf{5 , 5 5 4}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 5}$ | $\mathbf{1 , 5 0 4}$ | $\mathbf{1 , 3 9 7}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | 3 | - | - | 15 | - | - | - |
| ES | 2,845 | 2,490 | 2,284 | 2,244 | 3,637 | 3,208 | 1,487 | 1,059 | 1,147 | 1,125 |
| FK | 1,837 | 1,330 | 1,742 | 1,120 | 837 | 665 | 602 | 457 | 342 | 263 |
| KR | 2,219 | 2,797 | 1,884 | 2,174 | 1,894 | 1,995 | 1,077 | 478 | 12 | 6 |
| UK | 71 | 35 | 23 | 13 | 24 | 38 | 8 | 1 | 3 | 3 |
|  | $\mathbf{6 , 9 7 2}$ | $\mathbf{6 , 6 5 2}$ | $\mathbf{5 , 9 3 3}$ | $\mathbf{5 , 5 5 4}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 5}$ | $\mathbf{1 , 5 0 4}$ | $\mathbf{1 , 3 9 7}$ |

## Rajidae - Skates and Rays

Table L. 4 Total catch (tonnes) by license used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 1,759 | 1,251 | 1,270 | 941 | 1,256 | 1,440 | 1,029 | 814 | 543 | 582 |
| $\mathbf{B}$ | 8 | 4 | 0 | 0 | 0 | - | 7 | 3 | 12 | 6 |
| $\mathbf{C}$ | 30 | 4 | 13 | 4 | 6 | 10 | 8 | 2 | 7 | 10 |
| $\mathbf{E}$ | 55 | 42 | 98 | 8 | 10 | 6 | 8 | 6 | 24 | 7 |
| $\mathbf{F}$ | 2,573 | 3,107 | 2,224 | 2,942 | 2,388 | 2,128 | 1,142 | 515 | 36 | 32 |
| $\mathbf{G}$ | 746 | 743 | 754 | 440 | 481 | 738 | 354 | 314 | 323 | 207 |
| $\mathbf{L}$ | 55 | 32 | 78 | 32 | 28 | 29 | 28 | 28 | 26 | 24 |
| $\mathbf{S}$ | - | - | 0 | - | - | 0 | - | - | - | - |
| $\mathbf{W}$ | 1,484 | 1,352 | 1,374 | 1,085 | 2,124 | 1,384 | 514 | 299 | 514 | 514 |
| $\mathbf{X}$ | 261 | 117 | 122 | 102 | 100 | 172 | 98 | 15 | 18 | 14 |
|  | $\mathbf{6 , 9 7 2}$ | $\mathbf{6 , 6 5 2}$ | $\mathbf{5 , 9 3 3}$ | $\mathbf{5 , 5 5 4}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 5}$ | $\mathbf{1 , 5 0 4}$ | $\mathbf{1 , 3 9 7}$ |

Table L. 5 Total catch (tonnes) by gross tonnage (GT) and year

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 616 | 731 | 449 | 592 | 220 | 167 | 324 | 178 | 150 | 135 |
| $\mathbf{8 0 0 - 9 9 9}$ | 1,871 | 2,237 | 1,749 | 1,899 | 2,755 | 2,865 | 1,435 | 915 | 402 | 296 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 2,909 | 2,324 | 2,589 | 2,079 | 2,537 | 1,754 | 732 | 595 | 590 | 614 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 1,033 | 823 | 682 | 639 | 743 | 987 | 647 | 303 | 333 | 326 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 119 | 47 | 67 | 58 | 138 | 73 | 51 | 5 | 28 | 26 |
| $\mathbf{> 2 , 9 9 9}$ | 424 | 489 | 396 | 287 | - | 59 | - | - | - | - |
|  | $\mathbf{6 , 9 7 2}$ | $\mathbf{6 , 6 5 2}$ | $\mathbf{5 , 9 3 3}$ | $\mathbf{5 , 5 5 4}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 5}$ | $\mathbf{1 , 5 0 4}$ | $\mathbf{1 , 3 9 7}$ |

Table L. 6 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 5}$ | 54 | - | 19 | 1 | 46 | 46 | - | 4 | - | 5 |
| $\mathbf{4 5 - 4 9}$ | 252 | 152 | 160 | 40 | 103 | 64 | 63 | 123 | - | - |
| $\mathbf{5 0 - 5 4}$ | 2,085 | 2,722 | 1,852 | 2,159 | 2,154 | 2,197 | 1,438 | 654 | 232 | 225 |
| $\mathbf{5 5 - 5 9}$ | 610 | 693 | 675 | 226 | 457 | 381 | 258 | 205 | 291 | 180 |
| $\mathbf{6 0 - 6 4}$ | 868 | 817 | 961 | 1,056 | 1,044 | 814 | 188 | 153 | 254 | 307 |
| $\mathbf{6 5 - 6 9}$ | 1,460 | 918 | 1,059 | 955 | 1,467 | 1,425 | 616 | 578 | 461 | 423 |
| $\mathbf{7 0 - 7 9}$ | 1,165 | 829 | 769 | 806 | 1,072 | 874 | 530 | 272 | 257 | 236 |
| $\mathbf{8 0 - 8 9}$ | 51 | 27 | 42 | 20 | 45 | 43 | 77 | 5 | 9 | 17 |
| $>\mathbf{8 9}$ | 426 | 495 | 396 | 291 | 4 | 63 | 20 | 0 | 0 | 3 |
|  | $\mathbf{6 , 9 7 2}$ | $\mathbf{6 , 6 5 2}$ | $\mathbf{5 , 9 3 3}$ | $\mathbf{5 , 5 5 4}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 5}$ | $\mathbf{1 , 5 0 4}$ | $\mathbf{1 , 3 9 7}$ |




## Patagonotothen ramsayi-Rock Cod

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

| VESSEL TYPE | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 55,705 | 63,509 | 32,436 | 56,709 | 29,086 | 7,039 | 2,521 | 2,216 | 950 | 737 |
|  | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 0 9}$ | $\mathbf{3 2 , 4 3 6}$ | $\mathbf{5 6 , 7 0 9}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 1}$ | $\mathbf{2 , 2 1 6}$ | $\mathbf{9 5 0}$ | $\mathbf{7 3 7}$ |

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

| MONTH | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 3,521 | 112 | 743 | - | 32 | 933 | 40 | - | 97 | 51 |
| February | 5,993 | 3,086 | 3,197 | 560 | 1,780 | 1,024 | 141 | 154 | 240 | 233 |
| March | 2,502 | 9,016 | 2,847 | 1,251 | 1,527 | 750 | 416 | 472 | 304 | 184 |
| April | 6,205 | 10,051 | 3,837 | 1,170 | 4,442 | 1,167 | 434 | 625 | 139 | 86 |
| May | 11,150 | 14,240 | 2,751 | 9,128 | 9,544 | 536 | 85 | 173 | 49 | 11 |
| June | 4,578 | 5,500 | 922 | 5,940 | 3,806 | 131 | 19 | 10 | 20 | 7 |
| July | 2,571 | 3,680 | 675 | 8,922 | 390 | 226 | 109 | 36 | 17 | 8 |
| August | 3,697 | 4,945 | 2,935 | 7,350 | 756 | 923 | 564 | 234 | 54 | 22 |
| September | 4,036 | 3,288 | 4,898 | 5,984 | 729 | 992 | 545 | 357 | 24 | 119 |
| October | 7,536 | 5,352 | 5,086 | 7,925 | 1,093 | 235 | 127 | 56 | 2 | 14 |
| November | 2,889 | 1,877 | 2,111 | 5,997 | 841 | 72 | 31 | 70 | 0 | 3 |
| December | 1,028 | 2,361 | 2,435 | 2,482 | 4,146 | 51 | 11 | 28 | 3 | - |
|  | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 0 9}$ | $\mathbf{3 2 , 4 3 6}$ | $\mathbf{5 6 , 7 0 9}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 1}$ | $\mathbf{2 , 2 1 6}$ | $\mathbf{9 5 0}$ | $\mathbf{7 3 7}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | 0 | - | - | - | - | - | - |
| ES | 39,646 | 52,389 | 25,025 | 45,848 | 23,986 | 3,582 | 669 | 704 | 444 | 203 |
| FK | 15,051 | 10,754 | 7,079 | 10,314 | 4,605 | 3,205 | 1,765 | 1,470 | 492 | 519 |
| KR | 215 | 255 | 305 | 511 | 170 | 119 | 5 | 6 | 0 | 1 |
| UK | 794 | 111 | 28 | 36 | 325 | 133 | 82 | 37 | 13 | 14 |
|  | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 0 9}$ | $\mathbf{3 2 , 4 3 6}$ | $\mathbf{5 6 , 7 0 9}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 1}$ | $\mathbf{2 , 2 1 6}$ | $\mathbf{9 5 0}$ | $\mathbf{7 3 7}$ |

## Patagonotothen ramsayi-Rock Cod

Table M. 4 Total catch (tonnes) by license used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | 12,970 | 9,156 | 5,387 | 9,724 | 2,291 | 485 | 182 | 198 | 108 | 19 |
| B | 23 | 52 | 3 | 15 | 19 | - | 2 | 0 | 0 | 1 |
| $\mathbf{C}$ | 1,449 | 1,112 | 409 | 803 | 1,865 | 1,298 | 688 | 817 | 258 | 262 |
| E | 434 | 382 | 478 | 175 | 408 | 88 | 115 | 57 | 19 | 11 |
| F | 794 | 1,188 | 649 | 1,341 | 633 | 120 | 5 | 5 | 0 | 3 |
| $\mathbf{G}$ | 13,444 | 24,997 | 7,702 | 7,691 | 12,328 | 1,320 | 248 | 361 | 207 | 42 |
| S | - | 0 | 0 | 0 | - | 0 | - | - | - | - |
| W | 24,549 | 25,145 | 16,788 | 35,141 | 10,643 | 1,933 | 150 | 173 | 279 | 254 |
| $\mathbf{X}$ | 2,042 | 1,477 | 1,020 | 1,818 | 899 | 1,795 | 1,132 | 605 | 78 | 145 |
|  | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 0 9}$ | $\mathbf{3 2 , 4 3 6}$ | $\mathbf{5 6 , 7 0 9}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 1}$ | $\mathbf{2 , 2 1 6}$ | $\mathbf{9 5 0}$ | $\mathbf{7 3 7}$ |

Table M. 5 Total catch (tonnes) by gross tonnage (GT) and year

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 3,263 | 5,020 | 3,247 | 3,504 | 2,052 | 176 | 66 | 158 | 99 | 32 |
| $\mathbf{8 0 0 - 9 9 9}$ | 4,965 | 5,017 | 4,520 | 9,916 | 4,384 | 1,142 | 158 | 158 | 50 | 20 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 32,535 | 36,898 | 17,963 | 29,935 | 15,803 | 2,369 | 621 | 671 | 403 | 222 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 13,063 | 14,962 | 5,769 | 11,617 | 5,342 | 1,770 | 835 | 667 | 173 | 297 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 1,864 | 1,586 | 921 | 1,727 | 1,505 | 1,582 | 841 | 562 | 225 | 167 |
| $\mathbf{> 2 , 9 9 9}$ | 14 | 26 | 16 | 10 | - | 0 | - | - | - | - |
|  | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 0 9}$ | $\mathbf{3 2 , 4 3 6}$ | $\mathbf{5 6 , 7 0 9}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 1}$ | $\mathbf{2 , 2 1 6}$ | $\mathbf{9 5 0}$ | $\mathbf{7 3 7}$ |

Table M. 6 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 1,320 | - | 423 | 206 | 341 | 32 | - | - | - | 0 |
| $\mathbf{4 5 - 4 9}$ | 3,277 | 4,520 | 3,163 | 2,880 | 1,912 | 285 | 38 | 84 | - | - |
| $\mathbf{5 0 - 5 4}$ | 1,702 | 3,756 | 2,265 | 3,729 | 2,106 | 313 | 101 | 178 | 99 | 35 |
| $\mathbf{5 5 - 5 9}$ | 6,717 | 7,975 | 4,381 | 4,664 | 2,254 | 362 | 70 | 36 | 148 | 9 |
| $\mathbf{6 0 - 6 4}$ | 11,502 | 14,447 | 8,516 | 13,239 | 6,932 | 645 | 82 | 150 | 63 | 46 |
| $\mathbf{6 5 - 6 9}$ | 18,450 | 18,441 | 7,593 | 16,907 | 7,564 | 2,259 | 608 | 420 | 201 | 174 |
| $\mathbf{7 0 - 7 9}$ | 11,588 | 13,258 | 5,612 | 14,055 | 7,161 | 1,991 | 1,203 | 889 | 358 | 327 |
| $\mathbf{8 0 - 8 9}$ | 521 | 504 | 248 | 591 | 397 | 527 | 266 | 287 | 27 | 101 |
| $>\mathbf{8 9}$ | $\mathbf{6 2 9}$ | 610 | 236 | 437 | 418 | 624 | 152 | 170 | 53 | 44 |
|  | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 0 9}$ | $\mathbf{3 2 , 4 3 6}$ | $\mathbf{5 6 , 7 0 9}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 1}$ | $\mathbf{2 , 2 1 6}$ | $\mathbf{9 5 0}$ | $\mathbf{7 3 7}$ |

Patagonotothen ramsayi
First Season 2020 (01 Jan to 30 Jun)




## Patagonotothen ramsayi-Rock Cod

Length- frequency distribution and length-weight relationship in 2020



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

| VESSEL TYPE | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{J I}$ | - | - | - | - | - | - | - | - | - | 3 |
| LO | 130 | 104 | 97 | 83 | 107 | 109 | 68 | 73 | 86 | 78 |
| PO | - | - | 6 | 7 | 5 | - | - | 0 | - | - |
| TR | 2,264 | 468 | 920 | 281 | 603 | 2,501 | 3,620 | 1,065 | 2,257 | 1,533 |
|  | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 8}$ | $\mathbf{2 , 3 4 4}$ | $\mathbf{1 , 6 1 4}$ |

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

| MONTH | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 28 | 18 | 45 | 12 | 13 | 93 | 166 | 10 | 117 | 197 |
| February | 69 | 24 | 216 | 76 | 30 | 356 | 40 | 134 | 635 | 946 |
| March | 32 | 30 | 179 | 45 | 57 | 158 | 60 | 108 | 566 | 127 |
| April | 66 | 38 | 106 | 34 | 79 | 260 | 119 | 180 | 784 | 88 |
| May | 350 | 26 | 28 | 11 | 17 | 127 | 64 | 128 | 69 | 46 |
| June | 921 | 10 | 21 | 35 | 5 | 70 | 49 | 9 | 23 | 36 |
| July | 573 | 26 | 11 | 33 | 23 | 46 | 90 | 55 | 21 | 29 |
| August | 90 | 104 | 185 | 26 | 67 | 92 | 186 | 144 | 63 | 53 |
| September | 73 | 145 | 47 | 45 | 109 | 47 | 161 | 181 | 19 | 33 |
| October | 126 | 63 | 85 | 20 | 89 | 51 | 680 | 66 | 26 | 36 |
| November | 40 | 54 | 75 | 22 | 100 | 583 | 1,710 | 49 | 9 | 13 |
| December | 26 | 34 | 26 | 13 | 127 | 727 | 363 | 74 | 12 | 10 |
|  | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 8}$ | $\mathbf{2 , 3 4 4}$ | $\mathbf{1 , 6 1 4}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | 10 | - | - | 12 | - | - | - |
| ES | 2,008 | 258 | 261 | 114 | 475 | 2,274 | 3,215 | 510 | 2,107 | 1,108 |
| FK | 358 | 300 | 748 | 241 | 203 | 321 | 407 | 573 | 234 | 491 |
| JP | 5 | 0 | - | - | - | - | - | - | - | - |
| KR | 23 | 11 | 9 | 6 | 19 | 3 | 34 | 7 | 0 | 2 |
| TW | - | - | - | - | - | - | - | - | - | 3 |
| UK | 0 | 3 | 5 | 0 | 17 | 12 | 20 | 48 | 2 | 10 |
|  | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 8}$ | $\mathbf{2 , 3 4 4}$ | $\mathbf{1 , 6 1 4}$ |

## Others

Table N. 4 Total catch (tonnes) by license used and year

| Licence Used | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | 193 | 141 | 56 | 17 | 23 | 83 | 340 | 80 | 288 | 82 |
| $\mathbf{B}$ | 2 | 0 | - | 4 | - | - | 1 | - | 0 | 5 |
| $\mathbf{C}$ | 19 | 14 | 17 | 13 | 19 | 80 | 118 | 224 | 18 | 39 |
| E | 1,760 | 35 | 23 | 10 | 17 | 8 | 73 | 30 | 21 | 13 |
| F | 22 | 12 | 50 | 1 | 18 | 5 | 36 | 8 | 1 | 3 |
| $\mathbf{G}$ | 70 | 16 | 233 | 48 | 87 | 406 | 89 | 140 | 1,069 | 163 |
| $\mathbf{L}$ | 130 | 104 | 97 | 83 | 107 | 108 | 68 | 73 | 86 | 77 |
| $\mathbf{S}$ | 5 | 0 | 0 | 3 | 0 | 0 | - | 0 | - | - |
| $\mathbf{W}$ | 180 | 188 | 511 | 150 | 400 | 1,870 | 2,852 | 320 | 851 | 1,197 |
| $\mathbf{X}$ | 14 | 60 | 36 | 42 | 44 | 48 | 112 | 264 | 10 | 34 |
|  | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 8}$ | $\mathbf{2 , 3 4 4}$ | $\mathbf{1 , 6 1 4}$ |

Table N. 5 Total catch (tonnes) by gross tonnage (GT) and year

| GRT | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 0 0}$ | - | - | 6 | 7 | 5 | - | - | 0 | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 97 | 16 | 20 | 27 | 16 | 80 | 34 | 33 | 90 | 116 |
| $\mathbf{8 0 0 - 9 9 9}$ | 183 | 162 | 275 | 87 | 270 | 1,375 | 292 | 101 | 215 | 154 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 142 | 154 | 595 | 133 | 264 | 720 | 2,043 | 414 | 1,553 | 703 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 1,954 | 196 | 93 | 86 | 125 | 373 | 1,206 | 405 | 472 | 593 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 12 | 43 | 34 | 28 | 34 | 60 | 114 | 185 | 14 | 48 |
| $\mathbf{> 2 , 9 9 9}$ | 6 | 0 | - | 3 | - | - | - | - | - | - |
|  | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 8}$ | $\mathbf{2 , 3 4 4}$ | $\mathbf{1 , 6 1 4}$ |

Table N. 6 Total catch (tonnes) by length overall (m) (LOA) and year

| LOA | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 2 0}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 5}$ | 6 | - | 6 | 7 | 30 | 539 | - | 0 | - | - |
| $\mathbf{4 5 - 4 9}$ | 76 | 21 | 1 | 1 | 28 | 7 | 15 | 34 | - | - |
| $\mathbf{5 0 - 5 4}$ | 187 | 138 | 117 | 108 | 144 | 297 | 79 | 20 | 92 | 153 |
| $\mathbf{5 5 - 5 9}$ | 41 | 45 | 80 | 3 | 15 | 240 | 193 | 105 | 539 | 117 |
| $\mathbf{6 0 - 6 4}$ | 13 | 20 | 348 | 98 | 179 | 371 | 979 | 127 | 602 | 213 |
| $\mathbf{6 5 - 6 9}$ | 220 | 171 | 395 | 99 | 190 | 930 | 1,474 | 294 | 723 | 574 |
| $\mathbf{7 0 - 7 9}$ | 1,811 | 138 | 64 | 16 | 100 | 192 | 852 | 409 | 384 | 523 |
| $\mathbf{8 0 - 8 9}$ | 33 | 17 | 6 | 11 | 14 | 13 | 82 | 80 | 4 | 22 |
| $\mathbf{8 9}$ | 7 | 22 | 7 | 27 | 14 | 19 | 13 | 69 | 0 | 13 |
|  | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 8}$ | $\mathbf{2 , 3 4 4}$ | $\mathbf{1 , 6 1 4}$ |

## Others

Table N. 7 Total catch (tonnes) of others by species in 2020

| Common name | Latin Name | Catch mt |
| :---: | :---: | :---: |
| Driftfish | Seriolella porosa | 601.6 |
| Grenadier | Macrourus spp. | 507.3 |
| Butterfish | Stromateus brasiliensis | 167.1 |
| Grenadier | Coelorinchus fasciatus | 83.9 |
| Dogfish, Spurdog | Squalus acanthias | 46.1 |
| Dogfish/Catshark | Schroederichthys bivius | 40.3 |
| Lobster Krill | Mundia gregaria | 31.4 |
| Frogmouth | Cottoperca gobio | 30.5 |
| Blue Antimora | Antimora rostrata | 21 |
| Eelpout | Iluocoetes fimbriatus | 19.8 |
| Slender Tuna | Allothunnus fallai | 18.3 |
| Grenadier, Ridge Scaled | Macrourus carinatus | 17.6 |
| Dwarf Codling | Physiculus marginatus | 8 |
| Notothenid | Patagonotothen tessellata | 5.3 |
| Greater Hooked Squid | Moroteuthis ingens | 3.8 |
| Boga/Grunt | Haemulon vittatum | 3.5 |
| Greenland Shark | Somniosus microcephalus | 3.3 |
| Octopus | Octopus/eledone spp. | 2.1 |
| Porbeagle | Lamna nasus | 0.7 |
| Red Fish | Sebastes oculatus | 0.5 |
| Horsefish | Congiopodus peruvianus | 0.4 |
| Chinese Baby Face | Neophrynichthys marmoratus | 0.4 |
| Armless flounder | Mancopsetta milfordi | 0.2 |
| Icefish | Champsocephalus esox | 0.2 |
| Mullet | Eleginops maclovinus | 0.2 |
| Moonfish | Lampris immaculatus | 0.2 |
| Kingcrab | Lithodes turkayi | 0.2 |
| Hagfish | Myxinidae | 0.1 |
| Dogfish | Squalidae | 0.1 |
| Falkland Herring | Sprattus fuegensis | 0.1 |
| Flat fish | Mancopstta tricholepsis | 0.1 |
| All Others $<0.1$ tonnes |  | 0.1 |
|  | Grand Total | 1614.3 |



