## FALKLAND ISLANDS GOVERNMENT



# FISHERY STATISTICS <br> 2019 

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## FOREWORD

## 1 The Falkland Islands Fishery - 2019

The total annual catch in 2019 ( $\sim 201,500 \mathrm{t}$ ) was close to the average catch for the last decade. Illex catch was quite low $(43,400 \mathrm{t})$ due to the below average abundance of the South Patagonian Stock (SPS). Catches of two other main commercial species further improved compared to 2018, attaining record highs for Falkland calamari Doryteuthis gahi ( $\sim 81,900 \mathrm{t}$ ) since the middle of 1990s, and those for common hakes ( $\sim 53,400 \mathrm{t}$ ) since the late 1980s. Catches of all other finfish species remained low.

### 1.1 Illex argentinus - Illex squid

The year 2019 marked the third consecutive year of slow recovery of the SPS after its extremely low abundance observed in 2016. During these three years, the SPS has been mainly represented by early maturing medium-sized squid, abundant in March - early April. The abundance of late maturing SPS has been very low, which resulted in practically no fishing in May - first half of June.

Oceanographic conditions in January 2019 were not favourable for Illex migrations into the high seas area of $45-47^{\circ} \mathrm{S}$. There were no strong warm water inflows and gradients of sea surface temperatures were mainly formed inside the Argentinean EEZ. Despite the presence of a large international fleet in the area with $\sim 350$ jiggers and large and small trawlers, catches of Illex were sporadic and very low, not exceeding $1-2 \mathrm{t}$ per day. According to some unconfirmed reports, Argentinean jigging fleet that worked $50-70$ miles inside the Argentinean EEZ at the same latitudes as the high seas caught 20 to 30 t per day; an indication that the abundance of Illex should be at least at a medium level.

Negative anomalies in SST on the high seas persisted in February, with temperature gradients building up further west from the high seas area. As a result, catches of Illex on the high seas were quite poor, with most Falkland-flagged trawlers preferring to catch finfish in the Falkland Islands Conservation Zones (FICZ/FOCZ). In contrast, a warm water inflow appeared earlier than usual in the north-western part of FICZ, bringing Illex to Falkland waters. Effectively, the whole jigger fleet started to work within FICZ from 15 February, exploiting mainly the north-eastern part of the inflow. Catches were not stable, with average daily CPUEs ranging from 4 to 17 t per night. Maximum daily CPUE was observed on 24 February - 101 t per night. In the second half of the month, several trawlers also fished for Illex within the area exploited by jiggers, and had variable catches
ranging from 10 to 24.6 t per day. As a result, the total monthly catch ( $11,145 \mathrm{t}$ ) in the FICZ/ FOCZ was the highest monthly catch taken in February in the last decade.

Existing oceanographic gradients in the northern part of the Patagonian Shelf Water Inflow in March were quite favourable to aggregate feeding schools of early maturing SPS (ESPS) of Illex that had migrated earlier into FICZ. The entire jigging fleet (105 vessels) worked along the 200 m isobaths in the north-eastern part of FICZ and northern FOCZ in March and had variable catches of Illex. Average daily CPUE were low, but relatively stable throughout the month, varying from 7 to 12 t of Illex per vessel/night. Maximum CPUEs attained 100 t per vessel/night. Almost all vessels (but one) stopped fishing for one day due to a strong storm on 19 March. During the last six days of the month, mean values of jigger catches decreased to $5-6 \mathrm{t}$ per vessel/night, as the ESPS Illex started to move further north. G-licensed trawlers had reasonable catches of Illex when targeting it, up to $15-20 \mathrm{t}$ per vessel/day.

The entire jigging fleet carried on working within the FICZ/FOCZ until the middle of April. Catches were quite low during the first two days of the month (average CPUE of 4.5 t per vessel/ night, with some vessels having maximum of $64 t$ per night). Then the ESPS squid emigrated from the area and catches dropped to $0.5-1 \mathrm{t}$ per vessel/night. Some vessels tried to fish for Late maturing SPS (LSPS) in the western part of FICZ, but did not have any significant catches as the LSPS abundance was extremely low. In the middle of the month jiggers started to leave the fishery (mainly Taiwanese vessels), with the rest of them having an average CPUE of 1.1 t per vessel/ night. By the end of the month, only 32 vessels were left fishing within the FICZ/FOCZ. Their fishing was impaired by bad weather, with the majority of jiggers sheltering for up to four days in total during the month. Trawlers had poor catches of Illex, usually as a minor bycatch of several hundred kg per day.

The average daily CPUEs were less than one tonne in the first week of May. The poor catches were further exacerbated by bad weather. During four consecutive days (11-14 May) the majority of the jigging fleet was sheltering in the vicinity of the islands. The fishing fleet became sparse and the last vessels exited the fishing grounds on 16 May. A total of 111 t of Illex was caught during the month making it the second-lowest catch of this squid in the last decade.

Overall, the Illex fishery in 2019 was modest with a total annual catch of $43,549 \mathrm{t}$. This was somewhat lower than the last couple of years. The fishery on the high seas was reported as being poor whilst the Argentine fishery performed better with catches exceeding $90,000 \mathrm{t}$. As in 2018, there was no reimbursement of licence fees for jigging vessels due to relatively high market price.

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

Patagonian longfin squid or Falkland calamari (Doryteuthis gahi) is a domestic squid resource that has been managed exclusively by the Fisheries Department of the Falkland Islands.

In 2019, a biomass survey for first season recruitment was carried out on-board the fishing vessel Argos Cies from the 8 to 22 February. Fifty-five scientific trawls were taken during the survey, catching 381.5 t of squid. An estimate of $49,618 \mathrm{t}$ of D. gahi was calculated for the fishing zone, of which $4,620 t$ were estimated north of $52^{\circ} \mathrm{S}$, and $44,998 \mathrm{t}$ were estimated south of $52^{\circ} \mathrm{S}$.

The first fishing season started on $24^{\text {th }}$ February. As in the previous season, all vessels were required to carry at least a seal observer to monitor the presence and incidental capture of pinnipeds.

Fifteen C-licensed trawlers started the season on opening day; one trawler delayed entry by three days because of bad weather en route. All C-licensed trawlers started to fish in the southern part of the 'Loligo Box', where the densest aggregations of D. gahi had been reported during the preseason survey. Aggregations were so dense that the vessels effectively fished up to their capacity during all five days of February. Average daily CPUEs varied between 66 and 80.5 t per vessel. On 28 February, when the last $16^{\text {th }}$ trawler joined the fishery, the total daily catch hit a new record of $1,218 \mathrm{t}$. All vessels had seal observers and fished without Seal Exclusion Devices (SEDs), as there were no interactions observed between seals and trawlers. The total monthly catch of 6,377 t was the record highest catch for February in the last decade.

In March, catches of D. gahi were very high and stable throughout the month, with the record high daily mean CPUE of 57.5 t per vessel/day. This was a substantially higher average than observed in any completed season since at least 2006, although catch rates naturally decreased towards the end of a season. For the first eight days of the month, fishing was taken place exclusively in the south of the 'Loligo Box' (south of $52^{\circ} \mathrm{S}$ latitude) with average CPUE of 57 t per vessel/day. Then, for the next 18 days, $86 \%$ of fishing was taken place in the north as the north finally received a rich recruitment of squid. On 11 March, it was the record highest daily catch in the Falkland fishery - vessels caught $1,358 \mathrm{t}$ of squid with the average daily catch of 85 t per vessel. Fishing was more variable in the last week of March, and mean CPUEs decreased to $38-53 \mathrm{t}$ per vessel/day. All D. gahi belonged to the Autumn Spawning Cohort, with average individual weights ranging from 29 to 48 g (10.1 to 12.5 cm mantle length [ML]) in the north, and from 29 to 39 g ( 10.2 to 11.5 cm ML) in the south.

Seal observers were deployed on every vessel of the calamari fleet to observe interactions between the fishing gear and sea mammals and birds. Seal Exclusion Devices were mandated in the north sub-area of the 'Loligo Box' from 16 March, following two reported fishing mortalities of Southern sea lions, and SEDs were mandated in the south sub-area from 29 March following five reported mortalities of South American fur seals. No further pinniped mortalities were reported during the season after the SED mandates were implemented. The total monthly catch of D. gahi attained $26,872 \mathrm{t}$, which is the record highest catch in March in the last decade.

Excellent performance in the Falkland calamari fishery observed in March continued during April. Catches were slightly lower and averaged 56 t per vessel/day for the month. Maximum daily catch by vessel was reported during the first week of the month -111 t of squid. Changes in CPUE and individual size averages of squid showed that an immigration event occurred on 1 April in the southern part of the 'Loligo Box'. Subsequent variations in size and maturity suggested that a further immigration occurred just four days later on 5 April. In the north sub-area, another immigration event occurred on 3 April. As in the southern area, no depletion had been observed. Fishing was closed north of $52^{\circ} \mathrm{S}$ on 26 April, two days before the directed season end, because of small sizes of the D. gahi squid.

Total catch of D. gahi in the first season reached $55,586 \mathrm{t}$, the highest catch in the first season since 1995. The estimated escapement biomass of D. gahi remaining after the end of the first season was $86,476 \mathrm{t}$, with zero risk of overfishing and falling below the threshold limit of $10,000 \mathrm{t}$.

A biomass survey for second season recruitment was carried out on-board the fishing vessel New Polar from 14 to 27 July. Fifty-one scientific trawls were taken during the survey, catching 298 t of D. gahi squid. The results of the survey obtained an estimate of $50,880 \mathrm{t}$ of squid present in the
fishing zone, of which $18,516 \mathrm{t}$ were estimated north of $52{ }^{\circ} \mathrm{S}$, and $32,364 \mathrm{t}$ were estimated south of $52{ }^{\circ} \mathrm{S}$. This represented the most even distribution between north and south for a second season since 2014.

The commercial fleet ( 15 vessels) started fishing on 29 July exclusively in the southern part of the 'Loligo box', where dense concentrations of squid were revealed during the pre-recruitment survey. The abundance of squid there was so high, that all vessels fished up to their production capacity. Mean daily CPUEs were the highest recorded for this fishery, ranging between 83 and 88.5 t per vessel/day, with the maximum daily catch of 137.5 t per day. The total catch of D. gahi in July attained $4,512 \mathrm{t}$, which was the record catch for July since the shortening of the second season and $\sim 700 \mathrm{t}$ over the catch observed in July last year. All trawlers started to work without SEDs, but two seal mortalities that happened during the first day of fishing triggered the obligatory use of SEDs from the second day of the fishery. Seal observers monitored any interaction between the trawls and seals on every vessel of the X-licensed fleet.

Catches of Falkland calamari were exceptionally high for the first six days of August. Then on 7 August, bad weather stopped fishing by all vessels for the day, and catches never recovered. The difference in catches before and after 7 August was so acute that a large and irreversible dispersal of $D$. gahi on that day was inferred, and computationally included in the assessment model. Until the end of the month it was a gradual negative trend in CPUEs, from 46 t during the second week to 17.3 t during the last week of August. The vessels tried to fish in all parts of the 'Loligo Box', but had approximately similar mean CPUEs everywhere. The size of squid was good with modal length of 12 to 13 cm ML.

Fifteen trawlers fished for D. gahi in the beginning of September, but their CPUEs never recovered to the levels observed in the first half of August. Both in the north and south, catches were relatively low, with CPUEs not exceeding $14-16 \mathrm{t}$ per vessel/day. The decreasing trend in squid catches forced the Falkland Islands Fisheries Department (FIFD) to put a precautionary note on a possible early closure of the fishery due to the biomass approaching the minimum threshold level of $10,000 \mathrm{t}$, unless another abundant immigration would appear. That never happened, and the fishery was closed early on 9 September; the first emergency closure in the D. gahi fishery since the second season 2015 (the year of the unusual I. argentinus ingression).

Total catch of $D$. gahi for the second season was $24,748 \mathrm{t}$, the highest catch for a season closed by emergency order since at least 2004 and with an overall average CPUE of 39 t per vessel/day. Considering in-zone biomass only at the end of the season, the estimated escapement biomass of D. gahi squid remaining after the end of the second season was $9,505 \mathrm{t}$, with $36.6 \%$ risk of overfishing and falling below the threshold limit of $10,000 \mathrm{t}$. Considering in-zone biomass plus ostensibly dispersed biomass at the end of the season, the estimated escapement biomass of D. gahi squid remaining after the end of the second season was $14,757 \mathrm{t}$, with $6.6 \%$ risk of overfishing and falling below the limit of $10,000 \mathrm{t}$.

An additional 1,574 t of D. gahi were reported caught in Falkland fisheries other than C- or Xlicensed. The total catch for the year thus attained $81,908 \mathrm{t}$, making it, for the second year in a row, the highest annual catch since 1995.

### 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 grounds are located to the south of the Falkland Islands and at the southern coast of Chile; spawning takes place during September and October. Chilean production of BLU increased from 1987 to 1998 with a subsequent decrease in catch since 1999. Argentine and Falkland Islands BLU catch have a declining trend since the early 1990's. In 1999, the South Atlantic Fisheries Commission recommended a reduction of the fishing mortality on this stock to meet conservation targets. Catches in Argentina were greater than in Chile and the Falkland Islands from 1991 to 2006, and again from 2015. 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. The Falkland Islands have the smallest 10-year (2009 - 2018) average contribution ( $12.6 \pm 5.1 \%$ ) to the total Chilean, Argentine and Falklands BLU production, whereas Argentina and Chile contributed $40.9 \pm 16.1 \%$ and $46.5 \pm 15.4 \%$ of the total catch, respectively.

Catches of BLU in the Falkland waters have averaged 22,656 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 2019. Average annual catch was $3,034 \mathrm{t}$ from 2010 to 2019 , and even lower from 2015 to 2019 ( $2,404 \mathrm{t}$ ). In 2019, a total of 518 t of BLU was caught under A-, E-, G-, and W-licences. Wlicensed vessels reported the highest catch ( 495 t ), with catches in January (190 t), February (113 t) and August ( 192 t ). Effort ranged from 31 to $2,460 \mathrm{~h}$ per month throughout the year. CPUE was $77 \mathrm{~kg} / \mathrm{h}$ in January, $87 \mathrm{~kg} / \mathrm{h}$ in February, and $185 \mathrm{~kg} / \mathrm{h}$ in August. Only 14 t were caught by Elicensed vessels, whereas A- and G-licensed vessels caught 5 t and 4 t , respectively. Most BLU catches occurred to the southwest of West Falkland.

### 1.5 Macruronus magellanicus - hoki

Hoki, Macruronus magellanicus, 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 partially in Chilean, Argentine, and Falkland waters. Spawning occurs during the austral winter, mainly in Chilean waters between $43^{\circ} \mathrm{S}$ and $48^{\circ} \mathrm{S}$. Most hoki migrates out of Falkland 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 waters as the FICZ is at the edge of the species distribution. However, it is targeted mainly by trawlers during spring, summer and autumn in deep waters to the southwest of West Falkland when hoki is relatively abundant in the area.

In Chile, hoki stocks increased towards the year 1998 followed by a steep decline. In Argentina, catches of hoki had an increasing trend from 1987 to 2000; catches were relatively stable during 2000-2009, and declined from the year 2010. In the Falkland Islands, catches of hoki averaged $15,125 \mathrm{t}$ per year from 1987 to 2019, with an increasing trend from 1987 to reach a maximum of $26,970 \mathrm{t}$ in 2002, followed by a gradual decline to $7,407 \mathrm{t}$ in 2019 . Average annual catch in Falkland waters was $11,662 \mathrm{t}$ over the last ten years ( 2010 - 2019), whereas it was relatively low over the last five years ( $6,862 \mathrm{t}$ during 2015 - 2019). The Falkland Islands had the smallest annual con-
tribution (10.7 $\pm 3.1 \%$ ) to the total Chilean, Argentine, and Falklands hoki catch during the period 2010 - 2019, whereas Argentina and Chile contributed $49.8 \pm 6.4 \%$ and $39.5 \pm 4.7 \%$ of the catch, respectively.

In the Falkland Islands, a total of 7,407 t of hoki was caught under numerous licences during 2019; this is the sixth lowest catch observed since 1987. Greater hoki catches in Falkland waters during 2019 were reported by W-licensed vessels ( $6,262 \mathrm{t}$ ). Most catches were reported during January $(3,988 \mathrm{t})$ and February $(1,887 \mathrm{t})$, and $<200 \mathrm{t}$ were caught per month during the rest of the year. Monthly effort ranged from 31 to 2,460 h throughout 2019, with the maximum efforts in January and February ( 2,460 and $1,300 \mathrm{~h}$, respectively). Effort was also relatively high from May to September ( $>700 \mathrm{~h}$ ), although catches were $<6 \mathrm{t}$ per month during these months. Maximum CPUE occurred in January and February ( $1,621 \mathrm{~kg} / \mathrm{h}$ and $1,452 \mathrm{~kg} / \mathrm{h}$, respectively); CPUE was also relatively high in December ( $1,324 \mathrm{~kg} / \mathrm{h}$ ) and in March ( $973 \mathrm{~kg} / \mathrm{h}$ ); CPUE remained below $7 \mathrm{~kg} / \mathrm{h}$ the rest of the year. The second highest catch (941 t) of the year was reported by G-licensed trawlers that fished from February to May, with maximum catches in March ( 844 t ), month with the second highest effort under this licence ( $2,403 \mathrm{~h}$ ). The highest CPUE was $351 \mathrm{~kg} / \mathrm{h}$ during March; CPUE during February, April and May were below $48 \mathrm{~kg} / \mathrm{h}$. A total of 176 t was caught by A-licensed vessels, with most hoki caught in February ( 169 t). Effort in February was 383 h, and the maximum effort was reported in July with $3,067 \mathrm{~h}$. CPUE in February was $441 \mathrm{~kg} / \mathrm{h}$, and the rest of the year it was $<\mathrm{kg} / \mathrm{h}$. Most catches under W-, G- and A-licences took place to the southwest of west Falkland.

### 1.6 Merluccius hubbsi, Merluccius australis - Hakes

Two commercial species of hake occur in Falkland waters, common hake Merluccius hubbsi and its less abundant congener Patagonian hake Merluccius australis. Patagonian hake is more valuable than common hake. However, common hake is between one and two orders of magnitude more abundant than Patagonian hake in Falkland waters, therefore total catches of the former are much more valuable. Both species of hake 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 waters from March and April. In Falkland 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. Patagonian hake is less abundant in Falkland Islands waters, which are at the edge of their species range, than in the rest of its range. Highest abundance of this species is encountered in deeper waters to the southwest of West Falkland. This species is taken as a bycatch in the finfish trawl fleet as low abundance prevent it from being targeted.

Since $51,489 \mathrm{t}$ of common hake were caught in 1988, total annual catches of common hake have never exceeded $25,000 \mathrm{t}$, until the year $2018(27,020 \mathrm{t})$. However, the 2018 annual catch was dwarfed by a record $53,320 \mathrm{t}$ caught in 2019. Cumulatively, common hake made up over $70 \%$ of the teleost catches and was the most abundant species from March to October (inclusively), peaking in June and July ( $11,417 \mathrm{t}$ and $10,174 \mathrm{t}$, respectively). Despite spatial restrictions, common hake made up $80,74,71,77,86$, and $74 \%$ of catches on W -licensed vessels from May to October, respectively. Record catches in 2019 occurred despite a marked decrease in effort across the fin-
fish fleet relative to previous years, resulting in record CPUEs for March, April, May, July, August, and September on A-licence, and from March to September (inclusively) and November on W-licence. The high CPUEs observed on restricted finfish licence outside the Hake Box (area north of $51^{\circ} \mathrm{S}$ and west of $60^{\circ} \mathrm{W}$, closed to restricted finfish and skate trawl fisheries from May to October) were indicative of greater than expected abundance across the entire finfish area. Furthermore, for reasons currently being investigated, common hake migrated into Falkland waters in March, approximately one month earlier than expected, but two months earlier compared to 2018. Record CPUE for November on W-licence was evidence that common hake continued to be abundant in Falkland waters into November. However, catches for November were below average due to the fleet having run out of fishing days.

In FICZ/FOCZ, hakes were caught primarily in the finfish trawl fisheries: A- ( $27,197 \mathrm{t} ; 51 \%$ ), W( $14,278 \mathrm{t}$; $27 \%$ ), and G- $(11,205 \mathrm{t} ; 21 \%$ ) licences. Lesser amounts were reportedly caught in the 'Loligo' (C- and X- licences; 215 t ; 0.4\%), skate (F-licence; 214 t ; 0.4\%), and Illex (B-licence; 25 $\mathrm{t} ;<0.1 \%$ ) trawl fisheries.

Cumulative catches of Patagonian hake have increased from 71 t in 2018 to 96 t in 2019. However, these catches pale in comparison to their highs in 2016 (531 t) and $2017(170 \mathrm{t})$. As a result of vessels targeting grenadiers and corresponding high bycatch of Patagonian toothfish in the southwest of the FICZ, bycatch rules for these species have changed since early 2018 and may explain the significant drop in effort observed in this area since the new regulations have been enacted, resulting in lower annual catches of Patagonian hake.

### 1.7 Genypterus blacodes - kingclip

Cumulative annual catches of kingclip for 2019 reached $1,712 \mathrm{t}$; the fifteenth lowest total since 1987 and 375 t less than the long-term average ( 1987 to 2019). However, 2019 annual catches were the highest since 2015 (2,983 t). In January, June, and July, kingclip catches were the thirdhighest on record for these months, respectively, and cumulative annual catches to the end of July were the seventh-highest on record. However, from August, effort across the finfish fleet decreased significantly, resulting in the poorest catches on record for October and November, and the second-lowest since 1987 in September. During peak catches (April to July), CPUEs in the finfish fleet were generally average ( 68 to $80 \mathrm{~kg} / \mathrm{hr}$ ) with kingclip comprising two to three percent of the total catch on these licences. Consistent with previous years, kingclip catches began to peak in April, corresponding to their autumn migration into the FICZ, and were most abundant to the north, northwest, and west of the Falkland Islands during the winter when kingclip visit their feeding grounds in the FICZ. Generally, kingclip remain abundant in the FICZ during the spring months, but given the decrease in effort from August, catches could not be used as a proxy for kingclip abundance during this time. However, CPUEs on A- and W-licences in August and September are amongst the lowest of the past decade, suggesting either an early migration back to their spawning grounds in the Argentine EEZ or kingclip being outcompeted by high abundance of hake during these months.

Kingclip was caught primarily in the finfish fishery: A- (629 t; 37\%), W- (604 t; 35\%), and G(443 t; 26\%) licences. Lesser amounts were reportedly caught from the 'Loligo' (C- and X- licences, 10 t ; 0.6\%), Illex (B-licence, 9 t ; 0.5\%), and skate (F-licence, 5 t ; 0.3\%) fisheries. In the finfish fishery, while effort on A-licence ( 11,082 hours) exceeded that of W- ( 9,518 hours) and G-
(6,608 hours) licences, respectively, annual CPUEs were relatively similar (57, 63 , and $67 \mathrm{~kg} / \mathrm{hr}$, respectively).

In 2019, similar to catches ( 5 to 180 t per month of activity; peak in July) of kingclip and effort on A-licences ( 128 to 3,032 hours; peak in August), CPUEs have fluctuated greatly during the year ( 23 to $84 \mathrm{~kg} / \mathrm{hr}$; peak in July). The patterns have been similar on W-licence where monthly catches have ranged from 1.5 to 122.5 t per month with a peak in June, while effort ranged from 31 to 2,460 hours (peak in January), leading to inconsistent CPUEs ( 40 to $137 \mathrm{~kg} / \mathrm{hr}$; peak in April) when removing months with kingclip catches of less than 10 t (November and 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 and biological evidence suggests that red cod is decreasing in size and mean age at maturity. For a third consecutive year, red cod annual catches have increased in Falkland waters, but these three years remain among the five lowest cumulative catches on record. The annual cumulative catch in 2019 of 1,767 t ranks fourth lowest and represents approximately $41 \%$ of the long-term mean (1987 to 2019) of $4,229 \mathrm{t}$. Unsurprisingly, catches in September ( 72 t ) and October ( 26 t ) were among the lowest on record and coincide with conservation measures that ban fishing during these months in the spawning area. In recent years, catches have tended to increase in November and December. However, the paucity of fishing effort nearer the end of the year has resulted in poor catches despite CPUEs exceeding $100 \mathrm{~kg} /$ hour for November ( $101 \mathrm{~kg} / \mathrm{hour}$ ) and December ( $133 \mathrm{~kg} /$ hour). In recent years, red cod catches would peak in May once red cod began to aggregate in their feeding grounds in Falkland waters. In 2019, peak catches were in January (310 t) and steadily decreased until June (116 t) before increasing in July (131 t) and August (167 t) prior to the spatial closure due to spawning.

The majority of catches were reported from the finfish trawl fisheries: W- (55\%; 962 t ), G- ( $23 \%$; $409 \mathrm{t})$, and A- $(17 \% ; 298 \mathrm{t})$ licences, with lesser quantities caught in the 'Loligo' (C- and Xlicences; $53 \mathrm{t} ; 3 \%$ ), skate (F-licence; 2 t ; $0.1 \%$ ), and Illex (B-licence; $0.5 \mathrm{t} ;<0.1 \%$ ) trawl fisheries. It should be noted that nearly $42 \mathrm{t}(2 \%)$ were caught on E-licence during research cruises.

A significant disparity in CPUEs between licences is obvious (A-licence: $27 \mathrm{~kg} / \mathrm{hr}$, range of 5 to $186 \mathrm{~kg} / \mathrm{hr}$; G-licence: $62 \mathrm{~kg} / \mathrm{hr}$, range of 55 to $70 \mathrm{~kg} / \mathrm{hr}$; W-licence: $101 \mathrm{~kg} / \mathrm{hr}$, range of 44 to 201 $\mathrm{kg} / \mathrm{hr}$ ) and can be explained by vessels on A-licence targeting hake in the Hake Box (area north of $51^{\circ} \mathrm{S}$ and west of $60^{\circ} \mathrm{W}$, closed to restricted finfish and skate trawl fisheries from May to October). This area lies north of red cod feeding grounds and areas of greater abundance of red cod that were targeted by vessels using G- and W-licences.

### 1.9 Dissostich us 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-caught juvenile toothfish in the finfish trawl fisheries, on the continental shelf and shelf break, are not certified and therefore far less valuable; being sold with other whitefleshed fish for less than US $\$ 5 / \mathrm{kg}$. One spawning ground is believed to be along the edge of Burdwood Bank with spawning to occur between June and August. Another spawning may be present inside or outside the zone. Eggs hatch in austral spring (September - October) and larvae un-
dergo a pelagic phase during which they are passively carried by the currents until they settle on the shelf in shallow waters in December - January. As the juveniles grow, they migrate to deeper waters. By the time they are 7 to 12 years of age, they have reached the Patagonian slope and deep water plains ( $>1,000 \mathrm{~m}$ ) where they remain. It is during this migration to deeper waters that they are most vulnerable to trawling. Work completed this year by FIFD staff showed that the proportion of recruitment from the two spawning areas onto the Falkland Shelf depends on water temperatures at the time of spawning and current velocities during larval dispersal. It has been estimated in 2017 that the October and November by-catch of toothfish on W-licence was equivalent to the value of over 450 t of longline-caught toothfish in five years. 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. At this stage, it remains to be determined how much potential recruitment is taken by this fishery.

For 2019, a total of $1,317 \mathrm{t}$ of toothfish was taken by all fisheries in the Falkland fishing zones ( $1,049 \mathrm{t}[80 \%$ ] taken by targeted longline fishery, 179 t [14\%] under W-licence, $43 \mathrm{t}[3.0 \%$ ] Glicence, 34 t [3\%] A-licence, 7 t [0.5\%] C- and X-licences, $1 \mathrm{t}[<0.1 \%$ ] F-licence, and $<0.1 \mathrm{t}$ [ $<0.1 \%$ ] on B-licence. A further 2 t was taken on E-licence during research surveys.
For a third consecutive year, toothfish catches in the finfish trawl fisheries decreased to reach 258 t in 2019. For a second consecutive year, this amount is below the 300 t allocated to the finfish trawl fisheries (A-, G- and W-licences). 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. Amounts 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. However, this system of limiting toothfish by-catch by percentage is not perfect and ways to improve are being investigated and will be presented in 2020. The 7 t reportedly caught in the "Loligo" trawl fishery (C- and X-licences) are well below the 30 t allocated to this fishery.

Peak 2019 catches in the finfish trawl fisheries occurred from January to March and coincided with vessels targeting hoki in the southwest of the FICZ (deeper waters). Similarly, CPUEs for the three licences involved in the finfish trawl fisheries peaked during this time ( 5 to $56 \mathrm{~kg} / \mathrm{hr}$ on Alicence; 6 to $15 \mathrm{~kg} / \mathrm{hr}$ on G-licence; 11 to $43 \mathrm{~kg} / \mathrm{hr}$ on W-licence). Comparatively, annual CPUEs on A-, G-, and W-licences were $3 \mathrm{~kg} / \mathrm{hr}, 7 \mathrm{~kg} / \mathrm{hr}$, and $19 \mathrm{~kg} / \mathrm{hr}$, respectively. Overall, toothfish bycatch was reported on 288 days in the finfish trawl fisheries with an average of $925 \mathrm{~kg} /$ day caught; an increase of $20 \mathrm{~kg} /$ day over 2018. Toothfish catches on F-licence were among the lowest on record in 2019, but this coincided with a sharp decrease in effort. Given the depths and areas at which many vessels operate on F-licence, toothfish by-catch in the skate trawl fishery need to be monitored closely in 2020.

One longliner operated in Falkland waters throughout the year (except between May and August when it was in Spain for maintenance) with a total of 205 fishing days on L-licence. Toothfish catches averaged 5.1 t per day in the longline fishery, while CPUE was $3.91 \mathrm{~kg} / \mathrm{umbrella}$; the sixth highest annual CPUE in this fishery since 2008. During 2019, monthly CPUE ranged from 2.79 to $5.60 \mathrm{~kg} / \mathrm{umbrella}$, peaking in April and May when the longliner was fishing primarily to the south of Burdwood Bank.

The $1,040 \mathrm{t}$ TAC was exceeded by less than 9 t , but since 66 t was carried forward from 2018, 57.6 t will be carried forward to 2020. The catches on L-licence and associated CPUE suggest that there is continued solid recruitment into the longline fishery, showing no signs that it will decrease in the future. However, evidence of poor recruitment in both 2017 (few 0+ fish caught in 2018 and $1+$ fish caught in 2019) and 2018 (few $0+$ fish caught in 2019) suggest some caution is necessary to protect this recruitment and bycatch levels in the finfish and 'Loligo' trawl fisheries will need to be monitored closely moving forward.

### 1.10 Rajidae - Skates

In 2019, a total of $1,496.5 \mathrm{t}$ of skate was caught in the FICZ/FOCZ. This represents the lowest annual total skate catch since 1998, and the second-lowest since skate catches were first recorded in 1989. Both target catch and non-target bycatch decreased in 2019 from the year before, by respectively 480 t and 17 t . Approximately $2.4 \%$ of the 2019 total catch ( 36 t ) was harvested as target catch ( F -licence). This represents the lowest percentage of target catch since skate licences were issued in 1994. F-licence allocated days decreased substantially in 2019 from the year before, as commercial interest in F -licence shifted among different companies. The actual fishing effort decreased proportionally; in 2019, a total of 27 F-licence fishing days were taken out of 114 days allocated ( $23.7 \%$ licence utilization rate), whereas in 2018 a total of 64 F -licence fishing days were taken out of 258 days allocated ( $24.8 \%$ licence utilization rate). By comparison, licence utilization rates were $>50 \%$ in $2016-2017$, and $>95 \%$ as recently as 2015 .
The 2019 target catch was taken by three vessels; one vessel registered in the Falkland Islands (7.1 t in 3 vessel/days; mean CPUE of $178 \mathrm{~kg} / \mathrm{hr}$ ), and two vessels registered in Spain ( 28.6 t in 24 vessel/days; mean CPUE of $106 \mathrm{~kg} / \mathrm{hr}$ ). The Falklands-registered vessel fished its three F licence days in January. The two Spanish-registered vessels never overlapped in their F-licence effort (i.e., fishing F -licence on the same day), but between them took respectively $16.7 \%, 25.0 \%$, and $29.2 \%$ of effort in April, June, and August, vs. $3.8 \%, 4.3 \%$, and $51.0 \%$ of their F-licensed skate catch. The year 2019 was the first year that no Korean vessel fished skate licence since skate licences were issued in 1994.

The F-licensed Falklands vessel was not the same one as in 2018, and thus was targeting skate for the first time in 2019. This vessel also held finfish A- and W- licences, accounting for $24.4 \%$ of its total fishing activity in 2019, and D. gahi C- and X-licences, accounting for $73.3 \%$ of its total fishing activity in 2019. The F-licensed Spanish vessels held A-, G-, and W- finfish licences, which accounted for $92.2 \%$ of their aggregate fishing activity in 2019. Skate licence fishing was thus a minor activity for Falklands- and Spanish-registered vessels in 2019. These three F-licence vessels took $7.8 \%$ of the total skate bycatch under finfish licence, compared to the $14.6 \%$ 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, 543 t of skate were taken under A-licence (decrease of 273 t from the year before), 322 t under G-licence (increase of 11 t from the year before), and 508 t under W-licence (increase of 210 t from the year before). Approximately $2 \%$ of aggregate finfish skate bycatch was reported discarded. Additionally 25 t of skate were caught in the $D$. gahi fishery, a small increase from last year $(17 \mathrm{t})$. The one F -licensed vessel in 2019 that had also fished D. gahi licences reported $5.6 \%$ of skate bycatch vs. $6.1 \%$ of the effort under $D$. gahi licence, thus a rate of skate bycatch comparable to the average of other vessels in that fishery. A total of 26 t of skate were caught in the toothfish longline fishery,

24 t were caught under experimental licence (which included a skate survey), and 12 t were caught in the Illex trawl fishery. Skates caught in the longline fishery were almost entirely discarded ( $>98 \%$ ).

In all commercial fisheries, a total of 15,642 skates were identified to 15 species by observers on twelve vessels. In finfish-target trawls, four species represented at least $10 \%$ each of the sampled species composition by numbers: Bathyraja brachyurops (32\%), Z. chilensis (26\%), B. albomaculata ( $13 \%$ ), and B. macloviana ( $10 \%$ ). Five species represented at least $10 \%$ each by weight: $Z$. chilensis (34\%), B. brachyurops (24\%), B. albomaculata (16\%), B. macloviana (11\%), and B. griseocauda (10\%). In D. gahi trawls, B. brachyurops represented $75 \%$ of the sampled species composition by numbers, and no other species at least $10 \%$. However, three species represented at least $10 \%$ each by weight: B. brachyurops ( $55 \%$ ), Z. chilensis ( $11 \%$ ), and B. scaphiops ( $11 \%$ ). In the longline fishery three species represented all skate bycatch, in varying order. By numbers: Amblyraja cf. georgiana (64\%), Bathyraja papilionifera (27\%), and Bathyraja meridionalis (9\%), and by weight: A. cf. georgiana ( $81 \%$ ), B. meridionalis ( $25 \%$ ), and B. papilionifera ( $5 \%$ ). No observer cover had been assigned to skate-target trawls, given the low employment of that fishery in 2019.

### 1.11 Patagonotothen ramsayi - Rock cod

The annual catch fell to an all-time low in 2019 with 950 t of rock cod caught. The largest catch was in the D.gahi fishery, 335.8 t . This fishery discarded $99.8 \%$ of the catch. Finfish vessels (A-, W- and G-licences) caught 594 t . The highest catch in the finfish targeting fleet was by the Wlicences with $279 \mathrm{t}, 46 \mathrm{t}$ were discards. Vessels fishing on G-licences caught 207 t and discarded 94 t , whilst A-licensed vessels caught 108 t .

The highest catch was in the first quarter when 641 t were caught, this decreased quarter on quarter to 206 t , then 95 t and finally 6 t in the last quarter.

### 1.12 Grenadiers (Macrouridae)

There was neither a target fishery nor a research cruise for grenadiers in 2019. Total annual catch of grenadiers was 413 t taken as by-catch during longline ( 58 t ) and finfish ( 355 t ) fisheries. The longliner 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 reflects 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) and Coelorinchus (Coelorinchus fasciatus) the trawl fishery discarded 58 t from the 355 t caught. The longliner discarded 45 t from the catch of 58 t .

### 1.13 Zygochlamys patagonica - Patagonian scallop

No directed scallop fishery in Falkland Island waters occurred in 2019 although 1.7 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 Snow crab (Paralomis granulosa)

There is an experimental licence available for snow crabs; this was not used in 2019.

### 1.16 Others

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

## 2 Fisheries Department research cruises in 2019

In 2019, two research cruises were conducted by the Fisheries Department using the chartered fishing vessel Monteferro.

### 2.1 Demersal biomass survey ZDLM3-02-2019

The regular ground fish survey was conducted from 1 to 23 February 2019 on board the F/V Monteferro for the seventh time since 2010, every time concurrently with the first season "Loligo" pre -recruitment survey. Since 2011, the same stations were repeated to ease comparisons between years. A total of 83 stations were conducted, each trawl station followed the oceanographic station performed using CTD Seabird-25. During the survey, a total catch of 53 t was taken comprising 120 species or taxa, with red cod, Illex and hoki being the main species of the catch.

During the survey, an early migration of the squid Illex argentinus to the north-western part of FICZ was revealed. Despite slightly cooler temperatures at the surface compared to the previous 4 years, squid were already quite large (modal size $23-24 \mathrm{~cm}$ ), at advanced maturity stages (some females were mature at stage V). Another squid, D. gahi, was quite abundant everywhere on the shelf; however it did not yet concentrate near productive zones in the north-eastern part of FICZ. Sizes (mode of 9 cm ML) and maturities (mainly stage II) of D. gahi corresponded well to the average values characteristic to this time of the year. Dense aggregations of hoki were found to the southwest of the Falkland Islands. The fish was quite small (modal pre-anal length of 22 cm ), practically all of them were immature (maturity stage II). Red cod was abundant in the area of the Argentine inflow in the northwest of FICZ. Length-frequency of this fish showed significant amounts of adults (mainly post-spawning). It was also revealed quite an early migration of hakes with the Argentine inflow. The fish was much smaller than usual (modal lengths of $37-39 \mathrm{~cm}$ total length [TL]); large specimens were rare. The majority of fish came to the Falkland waters straight after spawning, with adult males being mainly at stage VII, and adult females at stages III and VIII. Kingclip was also smaller than usual, with modal sizes decreased to $47-53 \mathrm{~cm}$ TL. The majority of animals were immature. Rock cod occurred practically everywhere on the shelf, with denser concentrations in the northern and southwestern parts of FICZ. The abundance of this fish was however very low, not exceeding $1.2 \mathrm{t} / \mathrm{km}^{2}$. Size distribution of this fish was close to normal observed during the last several years, with one abundant mode of 15 cm fish ( $1+$ year old), and significant amounts of adults at $25-30 \mathrm{~cm}$ TL. Toothfish juveniles and young adults (subadults) were quite abundant in deeper areas of the shelf (southwest and north of FICZ). However, the absence of small recruitment of toothfish in shallow waters may potentially indicate to recruitment failure in 2018 (which was also noted during another research cruise in December 2018). This year the abundance of butterfish Stromateus brasiliensis was higher than usual. This fish also migrated
with temperate waters of the Argentine inflow (together with common hakes and Illex squid). Migratory schools consisted mainly of adult fish with modal length of $25-26 \mathrm{~cm}$; some fish attained 40 cm TL.

### 2.2 Joint research cruises with INIDEP - Illex (VA0219) and M. a. australis (VA0819)

Since the establishment of the South Atlantic Fisheries Commission (SAFC) in 1990 a series of joint research cruises between the Falkland Islands Government Fisheries Department (FIFD) and the Argentine Government's Instituto Nacional de Investigación y Desarrollo Pesquero (INIDEP) have taken place. These cruises have focused mainly on the biology of two straddling species: the Argentine shortfin squid (Illex argentinus) and southern blue whiting (Micromesistius australis australis). The joint cruises were initiated in 1994 but came to a halt in 2004. In 2019, the cooperation resumed and two joint cruises took place on board the RV 'Victor Angelescu', the first being 'Illex pre-recruitment' cruise (VA0219) and the second being 'Southern blue whiting spawning stock biomass estimation' cruise (VA0819).
The Illex pre-recruitment research cruise ran from February $1^{\text {st }}$ to March $5^{\text {th }}$ and the survey area was bounded by 45 and $51^{\circ} \mathrm{S}$ and 59 to $67^{\circ} \mathrm{W}$ at depths of 100 to 400 m . The cruise objectives included: (1) confirming the summer distribution and concentrations areas of Illex; (2) estimating the biomass and number of recruits of the South Patagonian stock; (3) collecting biological data to assist in stock discrimination; (4) determining the distribution and relative abundance of finfish and elasmobranch species; (5) collecting biological data from finfish and elasmobranchs; (6) collecting environmental data; and (7) collecting benthos to assess its composition. Overall, 86 trawls were conducted, CTD data were obtained at 30 stations, and biological data were recorded for all species included in the agenda of the November 2017 meeting of the SAFC Scientific SubCommittee. Additionally, otoliths were collected for Dissostichus eleginoides (Patagonian toothfish), Genypterus blacodes (kingclip), Patagonotothen ramsayi (rock cod), and Salilota australis (red cod) and statoliths were collected from 941 squid ( 758 Illex and 183 Doryteuthis gahi). The survey revealed that in the northern areas of the survey, a mix of summer and winter spawning stocks was encountered, whereas only winter spawning stock of the South Patagonian Illex stock occurred in southern areas of the survey. Regarding finfish, no statistically significant differences in size were discernable for rock cod between this research cruise and the concurrent demersal survey conducted in Falkland waters. However, male and female red cod and female kingclip were significantly larger in Falkland waters than in the Argentine EEZ.

The acoustic spawning stock biomass estimation cruise for M. a. australis (VA0819) took place between 9 and 17 September. The survey area was to the south of the Falkland Islands between 57.5 and $61.5^{\circ} \mathrm{W}$ covering the $100-300 \mathrm{~m}$ depth layers (approx. total survey area of $19,513 \mathrm{~km}^{2}$ ). The main objectives of this cruise were: to (1) estimate the spawning stock abundance of southern blue whiting, (2) improve the knowledge of its reproductive aspects and biology, (3) verify the drift of the first stages of development (eggs and larvae) in the area to the south of the Falkland Sound, (4) determine the distribution and relative abundance of other finfish species, (5) collect biological data and samples of finfish species (size, weight, sex, maturity, otoliths), (6) obtain environmental data (temperature, salinity, chlorophyll) and (7) collect benthos samples to investigate its composition. In total, 8 trawls, 21 CTDs, 9 box corers and 22 plankton tows were conducted. Acoustic backscattering signals were assigned to species through observations of contemporane-
ous trawl catches or signal comparison. The main species observed in the trawls was M. a. australis comprising $97.2 \%$ of the total catch sampled, along with minor species such as Falkland sprat (Sprattus fuegensis), austral hake (Merluccius australis) and Falkland Calamari (D. gahi). The acoustic data revealed a spawning 'hotspot' to the south-southwest of the Falkland Islands. Length -distributions for female and male M. a. australis revealed that females were larger than males, and also that females were further along the maturation process than males at the same stations. The modal lengths observed for males and females were still below the modal lengths observed during the initial years of the fishery.

### 2.3 Skate biomass and biological survey ZDLM3-10-2019

A research cruise dedicated to Rajiformes (skates) species was undertaken in October 2019. The objectives of this cruise were to:

- Update our knowledge of the skate species distribution in the northern slope of the continental shelf
- Assess the evolution and changes in the skate assemblage six years after the last dedicated research cruise.
- Collect exhaustive catch / bycatch information , including on teleost and invertebrate species, associated with the skate community
- Collect associated oceanographic data
- Collect individuals of Psammobatis spp for genetic and morphometric information
- Assess the catchability rates of the two net settings previously used in 2010 and 2013 to allow an acute comparison of data collected during these cruises.
The cruise took place from $11^{\text {th }}$ October until $25^{\text {th }}$ October, during which 56 trawls ( 60 minute duration) and 46 CTD deployments were carried out. The survey was divided in two parts: the first 12 days were dedicated to the assessment of the skate species distribution in the north of the FICZ, with a simultaneous characterisation of the fish and invertebrate community at each station. A gear catchability assessment was carried out over the last two days, with eight stations duplicated with two different gear settings (used in similar surveys held in 2010 and 2013).

Altogether, a total of $62,632 \mathrm{~kg}$ of marine organisms were caught during this survey including $18,494 \mathrm{~kg}$ of skate species, of which $99.98 \%$ was sampled. The biology and distribution analyses carried out in 2019 were comparable to those of 2010, and allowed to assess the variability observed in 2013 when most of the species shown decreasing trends, notably in terms of disc-width at $50 \%$ maturity. However, the biomass estimates of seven of the thirteen species/complex sampled, including the most abundant ones, appeared significantly lower in 2019 than they were in 2013, with a decrease of the total skate biomass estimated at more than $21 \%$ in 6 years, from $25,492 \mathrm{t}$ to $20,045 \mathrm{t}$ in the studied area.

## 3 Fisheries Department research contracts in 2019

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 2019 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.

## 3.2 'Seasonal and interannual variations in oceanographic conditions on the eastern continental slope and shelf of the Falkland Islands (November 1999 February 2019),

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

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

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

### 4.1 Longlining

Since 2007 the toothfish fishery uses the umbrella system, which reduces both whale (i.e. orca and sperm whale) and seabird direct access to baited hooks and depredation on hooked fish. The umbrellas have been crucial to mitigate seabird mortality during line setting, when birds dive to approach the baited hooks. Taking into account Falkland Islands law regarding the protection of marine mammals, observer coverage and the use of umbrellas, the toothfish fishery has recently been classified by the United States National Marine Fisheries Service (NMFS) as an "exempt" fishery. This means it is fully compliant to the United States new regulations implementing fish and fish products import provisions of the Marine Mammal Protection Act (MMPA), as the longlining operations in the Falkland Islands have a remote likelihood of incidental mortality and serious injury of marine mammals. During toothfish fishing, dedicated seabird and marine mammal observing effort is carried out during hauling every fourth day. In addition, setting observations may randomly occur during the observer's trip. In the last year a total of 285 stations were observed, of which 91 settings ( $32 \%$ ) and 16 hauls ( $6 \%$ ) were monitored for seabird and marine mammal interactions (Table 1). A total of 1,518 interactions were recorded with ACAP vulnerable seabird species, however no individuals were hooked. Although no seabird mortalities were recorded, entanglements
with the tori line were observed during setting, with one black-browed albatross released by the observer aboard.

### 4.2 Trawl fishery

### 4.2.1 Finfish

For the period July 2018 to June 2019, observations of seabird interactions with the demersal finfish fleet were conducted on 39 days, comprising an effective sampling effort of 154 h in 72 stations, which represents $1.6 \%$ of the fleet's total fishing day effort. No mortalities were observed, however the occurrence of 75 contacts with possible minor injury were reported for 75 individuals of ACAP-listed species ( 22 black-browed albatrosses, 52 giant petrels, 2 wandering albatrosses). The rate of contacts with unknown outcomes to real mortalities had been estimated to be about 3 to 1 . If we apply this rate to the 75 minor injury contacts observed, 25 of them could have resulted in actual mortalities. Extrapolating this value to the entire year finfish fishing effort, this would equate to 1,523 mortalities ( 442 black-browed albatrosses, 1,051 giant petrels, 30 wandering albatrosses; Table 1). In addition, three black-browed albatross mortalities were recorded outside seabird dedicated days. Two of them comprised net mortalities during shooting, while the third was related to the warp cable and occurred during hauling. Although there is no accurate mortality estimation, its occurrence is certain and definitely cryptic. Consequently and following the precautionary principle, new possible mitigation measures to be implemented in the finfish fleet are currently being evaluated. Regarding marine mammal interactions, three seal sightings were reported. Seal observations involved South American sea lions following a vessel, eating from the discard chute, and scavenging from the net during hauling. South American fur seals were seen in direct contact with the net while feeding on entangled fish, with two individuals caught during hauling but safely released from deck. Seal mortalities were neither observed nor reported by vessels.

### 4.2.2 Falklands calamari

The Falklands calamari fishery currently represents the only bottom-trawling fishery in the Southwest Atlantic with full observer coverage and the implementation of SEDs on the entire fleet after two seal mortalities occurred during fishing. As seal mortality levels maintained are negligible for the current population, this fishery is presently being evaluated by the NMFS to be classified as an "exempt" fishery. Currently only trawls operating in waters regulated by the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR) hold this status. The seal bycatch mitigation program started in September 2017 and since then has been funded by industry, however FIFD Scientific Observers continue to monitor the fishery, with dedicated seabird observations every fourth day. For the reported period 70 seabird stations were monitored by FIFD observers, comprising 130.43 h of effort, which equals to $1.2 \%$ of the fleet's total fishing day effort. Seal observers monitor at least three trawls per day (i.e. shooting and hauling) and record seal-gear interactions, behaviour, live SED escapees, live deck releases and incidental mortalities. In addition, external observers daily dedicate one hour for bird scaring lines (BSL) monitoring. For the period July 2018 to June 2019, a total of 5,734 seal stations were observed, representing $97.3 \%$ of the fleet's total fishing day effort; BSL monitoring comprised 1,557.6 h of gantry/stern deck observations during trawling. Seal sightings included 13,631 individuals (53.2\% South American fur seals), with 62 SED escapees observed during hauling and 55 deck releases. The SED escapees during shooting remains unknown. Twenty-eight seal mortalities were recorded (20 South Ameri-
can fur seals, 8 South American sea lions), of which 17 occurred pre-SED implementation. PostSED mortalities were mostly related to a faulty SED in one vessel, although mortalities during turns (i.e. SED escape passage blocked) and after propeller contact were also recorded. Regarding mortalities of seabird ACAP-listed species, 65 were recorded ( 62 black-browed albatrosses, 2 white-chinned petrels, 1 giant petrel), of which $95 \%$ were net-related. This follows the trend noticed last year, which cause might be multifactorial. Taking into account the cryptic mortality factor, the estimation of seabird mortalities for the year in this fishery are 195 seabirds ( 186 blackbrowed albatrosses, 6 white-chinned petrels, 3 giant petrels; Table 1). However, it is uncertain if the use of this cryptic mortality factor is adequate, as it is to be applied in warp-cable strike related mortalities, not net related ones. Furthermore, black-browed albatross entanglements in oily BSL during trawling and trawl net during hauling were recorded by both FIFD and external observers; probable post-release mortalities are not taken into account in here.

### 4.2.3 Skate

No observations were carried out on the 64 skate fishing effort days for the period.

### 4.2.4 Illex

For the reoprted period 10 stations were monitored within 5 seabird days, comprising 19 h of effort, which equals to $12.5 \%$ of the Illex bottom-trawling total fishing day effort. No mortalities were observed, however 96 possible minor injury contacts were recorded ( 73 black-browed albatrosses, 4 wandering albatrosses, 19 giant petrels). Applying the cryptic mortality factor, 32 of the observed contacts could have resulted in actual mortalities. Extrapolating this value to the entire year of Illex trawling effort, this would equate to 256 mortalities ( 195 black-browed albatrosses, 10 wandering albatrosses, 51 giant petrels) Table 1).

Table 1 Observer coverage and ACAP-listed seabird species estimates of mortality per fleet.

| Longlining |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Effort (stations) | Effort (h) | Fleet coverage (\%) | Minor injury contacts | $\mathrm{N}^{\circ}$ mortalities observed | Estimated mortalities |
| 285 | NA | 38 | 0 | 0 | Negligible |
| Finfish |  |  |  |  |  |
| 72 | 154 | 1.6 | 75 | 3* | 1,523** |
| Falklands calamari |  |  |  |  |  |
| 5,804 | 1,688.3 | 98.5 | 0 | 65 | 195 |
| Illex (bottom-trawling) |  |  |  |  |  |
| 10 | 19 | 12.5 | 96 | 0 | 256** |
| Total mortalities: |  |  |  |  |  |
|  |  |  |  | 68 | 1,974 |
| *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 ( $<4 \%$ );, 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 and Illex fleets fully precautionary.

### 4.3 Improvements to seabird and marine mammal mitigation

The Seabird NPOA-T 2019 was published in December 2018. Mitigation measures for both seabirds and marine mammals continue to evolve.

### 4.3.1 Fixed aerial array (FAA)

In June 2019, a total of 13 out of 16 vessels of the Falklands calamari fleet had been fitted with FAAs. All vessels had added an extra distal streamer curtain, fully enclosing the proximal water zone astern the vessel, which prevents seabirds to enter the dangerous area with exposed cables while trawling. As a result, warp cable interactions are uncommon, even in bad weather conditions when warp cables are laterally exposed. Three vessels had incorporated weighted streamers, with very good results. Two vessel trips by the Seabird and Marine Mammal Scientific Officer were carried out to evaluate the FAAs, which resulted in suggested improvements to industry.

### 4.3.2 Discard management

No changes have occurred in the trawler fleet.

### 4.4 Compliance

According to observer reports, only one vessel targeting Illex was found trawling without using tori-lines in bad weather conditions. This caused the occurrence of several heavy contacts which the observer described as possible eventual mortalities. It is planned for captains to have an induction to good practices, with a focus on net cleaning, FAA's streamer maintenance and discard management. Hopefully, this will improve overall compliance.

### 4.4.1 Discarding regulations

High standards continue to be recorded among the fleet, although occasional late halts to discard may occur.

### 4.4.2 Net cleaning

Despite net cleaning has improved and is usually carried out respecting medium-level standards, seabird species have already learned to forage in the fishing gear. High levels of seabird interactions were recorded even while shooting brand new nets and entanglement in FAA's oily streamers also occurred. Novel net-mortality mitigation strategies will be explored.

## 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 (2016-2019) is summarized in Table 2. There has been a net percentage-decrease in FIFD observer coverage in 2019, explained by two main circumstances: a reduction of the observer staff from 7 to 6 members as the seabird observer position has been replaced by a land-based scientific officer one, and the high mobilisation of observers on research cruises - including a joint research cruise with Argentina. The amount of data collected has consequently been reduced when compared to 2018, but the strategy has been adapted to maintain the collection of data essential to the Fisheries management and to reduce the number of duplicates. As of previous years, external observers were mandated on the fleet fishing for Falkland calamari under C - and X -licence, these two seasons having therefore an observer coverage of $100 \%$. This year, the fishing effort of trawlers targeting mainly finfish under $\mathrm{A}-$, $\mathrm{G}-$ and W -licence has greatly increased by $19.5 \%$. However, the number of jiggers targeting Illex has been lower than during 2018, all in all remaining relatively high when compared to 2016. Skates-targeting trawler effort (Flicence) has dropped again significantly, F-licence effort being used by vessels only on punctual basis - preventing observer coverage for this licence. 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 decrease in terms of percentage but remained close to the target of $50 \%$ of overage per year.

Table 2-Observer coverage for 2016-2019 FICZ / FOCZ
$\left.\left.\begin{array}{|l|l|l|l|l|l|l|l|l|l|l|l|l|}\hline & 2016 & & & 2017 & & & 2018 & & & 2019 & \\ \hline \text { Licence } & \begin{array}{l}\text { Fishing } \\ \text { Days }\end{array} & \begin{array}{l}\text { Obs } \\ \text { days }\end{array} & 2350 & 243 & 10.3 \% & 1770 & 241 & 13.6 \% & 1752 & 236 & 13.4 \% & 2176 \\ \text { Days }\end{array} \quad \begin{array}{l}\text { Fishing } \\ \text { Days } \\ \text { days }\end{array}\right] \begin{array}{l}\text { Obs } \\ \text { days }\end{array}\right]$
*Observed day numbers include two tagging trips. The actual observed days and percentage of coverage are 105 d and $56.6 \%$, respectively.
**As several observers are embarked simultaneously on the same cruises, the real observer days for E-licence is 194 d in 2019.
In 2019, there were 23 observer trips on commercial vessels, two Falkland calamari D. gahi prerecruitment surveys and four research cruises including a joint Illex pre-recruitment survey with Argentina. Table 3 provides an updated four year summary of individual specimens sampled for size/ sex/maturity and optionally weight/otoliths/statoliths. Four-year totals of less than 150 specimens per species were grouped into "Others". Data of the joint Illex pre-recruitment survey with Argentina are not included in Table 3.

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

| Species name | 2016-2019 | \% | 2016 | \% | 2017 | \% | 2018 | \% | 2019 | \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Doryteuthis gahi | 397,205 | 37.25\% | 114,330 | 40.33\% | 142,397 | 38.40\% | 72,257 | 33.58\% | 68,221 | 34.67\% |
| Patagonotothen ramsayi | 180,469 | 16.93\% | 44,750 | 15.78\% | 69,254 | 18.68\% | 35,454 | 16.48\% | 31,011 | 15.76\% |
| Merluccius hubbsi | 97,264 | 9.12\% | 22,020 | 7.77\% | 27,646 | 7.46\% | 22,472 | 10.44\% | 25,126 | 12.77\% |
| Illex argentinus | 76,410 | 7.17\% | 12,502 | 4.41\% | 27,677 | 7.46\% | 21,441 | 9.96\% | 14,790 | 7.52\% |
| Dissostichus eleginoides | 50,771 | 4.76\% | 13,513 | 4.77\% | 25,508 | 6.88\% | 6,901 | 3.21\% | 4,849 | 2.46\% |
| Salilota australis | 34,864 | 3.27\% | 11,642 | 4.11\% | 9,618 | 2.59\% | 6,088 | 2.83\% | 7,516 | 3.82\% |
| Bathyraja brachyurops | 27,306 | 2.56\% | 9,556 | 3.37\% | 8,335 | 2.25\% | 6,423 | 2.99\% | 2,992 | 1.52\% |
| Macruronus magellanicus | 25,363 | 2.38\% | 7,383 | 2.60\% | 7,014 | 1.89\% | 6,447 | 3.00\% | 4,519 | 2.30\% |
| Bathyraja albomaculata | 20,367 | 1.91\% | 7,251 | 2.56\% | 7,284 | 1.96\% | 2,552 | 1.19\% | 3,280 | 1.67\% |
| Genypterus blacodes | 19,360 | 1.82\% | 4,613 | 1.63\% | 4,514 | 1.22\% | 4,322 | 2.01\% | 5,911 | 3.00\% |
| Zearaja chilensis | 15,524 | 1.46\% | 7,590 | 2.68\% | 2,133 | 0.58\% | 4,699 | 2.18\% | 1,102 | 0.56\% |
| Micromesistius australis | 13,725 | 1.29\% | 5,291 | 1.87\% | 4,019 | 1.08\% | 3,178 | 1.48\% | 1,237 | 0.63\% |
| Bathyraja griseocauda | 10,348 | 0.97\% | 4,203 | 1.48\% | 2,723 | 0.73\% | 1,209 | 0.56\% | 2,213 | 1.12\% |
| Coelorinchus fasciatus | 9,787 | 0.92\% | 1,475 | 0.52\% | 2,377 | 0.64\% | 4,033 | 1.87\% | 1,902 | 0.97\% |
| Amblyraja doellojuradoi | 9,461 | 0.89\% | 1,664 | 0.59\% | 2,740 | 0.74\% | 2,049 | 0.95\% | 3,008 | 1.53\% |
| Bathyraja macloviana | 8,426 | 0.79\% | 1,718 | 0.61\% | 2,199 | 0.59\% | 2,867 | 1.33\% | 1,642 | 0.83\% |
| Macrourus holotrachys | 8,325 | 0.78\% | 2,569 | 0.91\% | 1,461 | 0.39\% | 1,190 | 0.55\% | 3,105 | 1.58\% |
| Champsocephalus esox | 7,412 | 0.70\% | 253 | 0.09\% | 6,359 | 1.71\% | 594 | 0.28\% | 206 | 0.10\% |
| Antimora rostrata | 5,306 | 0.50\% | 1,104 | 0.39\% | 1,638 | 0.44\% | 1,491 | 0.69\% | 1,073 | 0.55\% |
| Stromateus brasiliensis | 5,051 | 0.47\% | 92 | 0.03\% | 852 | 0.23\% | 360 | 0.17\% | 3,747 | 1.90\% |
| Bathyraja scaphiops | 4,443 | 0.42\% | 1,484 | 0.52\% | 1,276 | 0.34\% | 904 | 0.42\% | 779 | 0.40\% |
| Cottoperca gobio | 3,559 | 0.33\% | 452 | 0.16\% | 1,811 | 0.49\% | 659 | 0.31\% | 637 | 0.32\% |
| Notophycis marginata | 2,988 | 0.28\% | 199 | 0.07\% | 408 | 0.11\% | 2,277 | 1.06\% | 104 | 0.05\% |
| Bathyraja cousseauae | 2,873 | 0.27\% | 669 | 0.24\% | 1,099 | 0.30\% | 363 | 0.17\% | 742 | 0.38\% |
| Patagonotothen tessellata | 2,501 | 0.23\% | 739 | 0.26\% | 1,271 | 0.34\% | 142 | 0.07\% | 349 | 0.18\% |
| Psammobatis spp. | 1,708 | 0.16\% | 369 | 0.13\% | 171 | 0.05\% | 857 | 0.40\% | 311 | 0.16\% |
| Bathyraja multispinis | 1,413 | 0.13\% | 609 | 0.21\% | 304 | 0.08\% | 329 | 0.15\% | 171 | 0.09\% |
| Gymnoscopelus nicholsi | 1,294 | 0.12\% | 421 | 0.15\% | 757 | 0.20\% | 100 | 0.05\% | 16 | 0.01\% |
| Iluocoetes/Patagolycus | 1,194 | 0.11\% | 979 | 0.35\% | 209 | 0.06\% | 6 | 0.00\% | 0 |  |
| Onykia ingens | 1,141 | 0.11\% | 309 | 0.11\% | 101 | 0.03\% | 728 | 0.34\% | 3 | <0.01\% |
| Sprattus fuegensis | 1,139 | 0.11\% | 230 | 0.08\% | 685 | 0.18\% | 207 | 0.10\% | 17 | 0.01\% |
| Merluccius australis | 961 | 0.09\% | 476 | 0.17\% | 289 | 0.08\% | 129 | 0.06\% | 67 | 0.03\% |
| Schroederichthys bivius | 741 | 0.07\% | 132 | 0.05\% | 152 | 0.04\% | 1 | <0.01\% | 456 | 0.23\% |
| Sebastes oculatus | 500 | 0.05\% | 141 | 0.05\% | 189 | 0.05\% | 73 | 0.03\% | 97 | 0.05\% |
| Squalus acanthias | 500 | 0.05\% | 202 | 0.07\% | 35 | 0.01\% | 101 | 0.05\% | 162 | 0.08\% |
| Pseudocyttus maculatus | 456 | 0.04\% | 1 | <0.01\% | 434 | 0.12\% | 20 | 0.01\% | 1 | <0.01\% |
| Allothunnus fallai | 452 | 0.04\% | 179 | 0.06\% | 134 | 0.04\% | 132 | 0.06\% | 7 | <0.01\% |
| Congiopodus peruvianus | 357 | 0.03\% | 64 | 0.02\% | 103 | 0.03\% | 190 | 0.09\% | 0 | <0.01\% |
| Bathyraja magellanica | 352 | 0.03\% | 78 | 0.03\% | 208 | 0.06\% | 32 | 0.01\% | 34 | 0.02\% |
| Zearaja argentinensis | 326 | 0.03\% | 145 | 0.05\% | 46 | 0.01\% | 95 | 0.04\% | 40 | 0.02\% |
| Cottunculus granulosus | 265 | 0.02\% | 119 | 0.04\% | 63 | 0.02\% | 83 | 0.04\% | 0 | <0.01\% |
| Amblyraja cf. georgiana | 182 | 0.02\% | 53 | 0.02\% | 82 | 0.02\% | 19 | 0.01\% | 28 | 0.01\% |
| Brama dussumieri | 172 | 0.02\% | 29 | 0.01\% | 123 | 0.03\% | 18 | 0.01\% | 2 | <0.01\% |
| Others | 6,595 | 0.62\% | 399 | 0.14\% | 536 | 0.14\% | 262 | 0.12\% | 5,291 | 2.69\% |
| Total | 1,066,267 |  | 283,502 |  | 370,832 |  | 215,169 |  | 196,764 |  |

## 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 2020 calendar year.

## 7 Participation in Scientific Workshops, Conferences and Symposia in 2019

### 7.1 Johan Hjort ICES Symposium

The Johan Hjort anniversary symposium was held in Bergen, Norway, from 12 to 14 June 2019. A. Arkhipkin presented a paper titled 'Cephalopods: fisheries science, stock assessment and management in the fast lane', by A. Arkhipkin, A. Winter, and R. Roa-Ureta. A. Winter presented a poster titled 'Science and management in the Falkland Islands: A small territory with a large industrial fishery', by A. Winter and A. Arkhipkin.

### 7.2 ICES Annual Scientific Meeting - 2019

Annual Scientific Meetings are organised by the International Council for the Exploration of the Seas (ICES). In 2019, the meeting was held in Gothenburg, Sweden between 24 and 28 September. Participants from FIFD: A. Arkhipkin with one report presented: ‘Uncontrolled high seas fishery threatens the sustainability of one of the most abundant resources in the Southwest Atlantic, squid Illex argentinus'. J. E. Ramos, in collaboration with A. Winter and A. Arkhipkin presented a report: 'Stock assessment of data-poor fisheries species in Falkland Islands waters'

## 8 Publications from scientific work carried out in FIG Fisheries Department in 2019 (or in collaboration with FIG personnel)

### 8.1 Peer-reviewed publications (appeared in 2019)

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## 9 Contributors

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Haseeb Randhawa: sections 1.6-1.9; 2.2
Andreas Winter, sections 1.2; 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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Total 100．00\％

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．
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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 |
| 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 | - | - | - |
| 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 |  |  |
| $\mathrm{A}^{*}$ | 29 | 29 | 31 | 29 | 26 | 22 | 28 | 27 | 20 |  |  |
| B | 94 | 100 | 99 | 106 | 106 | 104 | 106 | 109 | 106 |  |  |
| C | 17 | 18 | 17 | 17 | 16 | 17 | 18 | 17 | 16 |  |  |
| E | 5 | 6 | 8 | 5 | 8 | 4 | 13 | 6 | 5 |  |  |
| F** | 7 | 8 | 8 | 8 | 8 | 8 | 7 | 6 | 5 |  |  |
| G | 25 | 25 | 25 | 22 | 21 | 22 | 18 | 18 | 17 |  |  |
| L | 1 | 1 | 2 | 2 | 1 | 1 | 3 | 1 | 1 |  |  |
| R | - | - | - | - | - | - | - | - | - |  |  |
| S | 1 | 3 | 1 | 1 | 1 | 1 | - | 1 | - |  |  |
| W*** | 27 | 25 | 28 | 26 | 28 | 26 | 22 | 24 | 25 |  |  |
| X | 17 | 16 | 16 | 17 | 16 | 17 | 16 | 17 | 17 |  |  |
| Y | - | - | - | - | - | - | - | - | - |  |  |
| $\underline{\mathbf{Z}}$ | - | - | - | - |  | - | - | - | - |  |  |
|  | 223 | 231 | 235 | 233 | 231 | 222 | 231 | 226 | 212 |  |  |

*- 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 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| FK | 73 | 69 | 62 | 54 | 55 | 58 | 58 | 57 | 60 | 52 | 52 | 49 | 61 | 60 | 53 |
| 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 |
| 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 |
| UK | 6 | 4 | 4 | 4 | 6 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 5 | 3 | 4 |
| UY | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| vu | 2 | - | - | - | - | 1 | 2 | - | 2 | 4 | 4 | 4 | 4 | 4 | 4 |
|  | 204 | 194 | 200 | 170 | 154 | 203 | 223 | 231 | 235 | 233 | 231 | 221 | 231 | 226 | 212 |

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

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

## Licences

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

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

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

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

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

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

## Licences

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

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

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

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

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

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

## Licences

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

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

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

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

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

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

## 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 | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{A}$ | $1,129,012$ | $1,129,012$ | $1,129,012$ | $1,129,012$ | $1,129,012$ | $1,129,012$ | $1,129,012$ |
| B | $10,597,284$ | $10,616,032$ | $11,208,479$ | $3,346,467$ | $11,093,286$ | $11,247,526$ | $12,325,740$ |
| $\mathbf{C}$ | $2,133,230$ | $2,133,230$ | $2,133,230$ | $2,133,230$ | $2,133,230$ | $2,240,100$ | $2,352,105$ |
| E | - | - | - | - | - | - |  |
| F | 247,121 | 247,121 | 247,121 | 247,121 | 247,121 | 247,121 | 222,409 |
| G | 845,900 | 845,900 | 845,900 | 845,900 | 845,900 | 761,300 | 761,300 |
| L | 836,770 | 836,770 | 836,770 | 836,770 | 836,770 | 920,500 | 966,525 |
| S | 181,257 | 60,419 | 60,419 | 60,419 | 60,419 | 60,419 | 60,419 |
| W | $1,341,160$ | $1,341,160$ | $1,341,160$ | $1,341,160$ | $1,341,160$ | $1,207,000$ | $1,146,650$ |
| $\mathbf{X}$ | $4,242,082$ | $4,242,082$ | $4,242,082$ | $4,242,082$ | $4,242,082$ | $4,454,000$ | $4,676,700$ |
|  | $\mathbf{2 1 , 5 5 3 , 8 1 6}$ | $\mathbf{2 1 , 4 5 1 , 7 2 6}$ | $\mathbf{2 2 , 0 4 4 , 1 7 3}$ | $\mathbf{1 4 , 1 8 2 , 1 6 1}$ | $\mathbf{2 1 , 9 2 8 , 9 8 0}$ | $\mathbf{2 2 , 2 6 6 , 9 7 8}$ | $\mathbf{2 3 , 6 4 0 , 8 6 0}$ |

*     - 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 | 210,874 | 377,038 |
| 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 |  |  |
| JI | 73,577 | 84,619 | 139,137 | 291,770 | 332,862 | 2,303 | 63,849 | 51,341 | 41,538 |  |  |
| LO | 1,406 | 1,222 | 1,477 | 1,367 | 1,258 | 1,160 | 1,126 | 1,083 | 1,162 |  |  |
| PO | - | - | 6 | 7 | 5 | - | - | 0 | - |  |  |
| TR | 150,496 | 180,194 | 123,975 | 157,825 | 128,363 | 108,032 | 103,225 | 124,204 | 153,538 |  |  |
|  | 225,479 | 266,035 | 264,595 | 450,969 | 462,487 | 111,495 | 168,174 | 176,628 | 196,238 |  |  |

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 |

$\mathbf{3 1 9 , 1 0 7} 265,198100,979209,097103,098127,118213,516302,169270,051153,643209,171$

| SPECIES | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BAC | 4,210 | 4,629 | 5,164 | 3,467 | 3,340 | 3,143 | 1,379 | 1,654 | 1,767 |
| BLU | 3,940 | 1,596 | 2,698 | 3,612 | 2,790 | 5,415 | 2,309 | 992 | 518 |
| COX | 55,705 | 63,510 | 32,435 | 56,693 | 29,086 | 7,039 | 2,520 | 2,213 | 950 |
| ILL | 79,264 | 87,002 | 142,619 | 306,111 | 357,722 | 2,360 | 67,445 | 54,405 | 43,398 |
| KIN | 3,867 | 3,510 | 3,977 | 2,881 | 2,983 | 1,612 | 1,632 | 1,445 | 1,712 |
| LOL | 34,675 | 70,894 | 40,168 | 48,702 | 30,317 | 46,447 | 64,676 | 79,996 | 81,908 |
| MAR | - | - | - | 10 | 0 | 0 | 0 | - | 0 |
| HAK | 9,904 | 10,489 | 12,308 | 14,875 | 21,054 | 23,363 | 15,589 | 27,021 | 53,320 |
| PAT *** | 0 | 0 | 0 | - | 14 | 531 | 170 | 70 | 96 |
| RAY | 6,970 | 6,655 | 5,932 | 5,555 | 6,393 | 5,906 | 3,189 | 1,994 | 1,503 |
| TOO | 1,560 | 1,311 | 1,422 | 1,297 | 1,227 | 1,499 | 1,519 | 1,259 | 1,317 |
| WHI | 22,979 | 15,867 | 16,849 | 7,392 | 6,845 | 11,562 | 4,053 | 4,438 | 7,407 |
| GRX | 2,062 | 225 | 517 | 216 | 367 | 2,335 | 3,273 | 484 | 413 |
| ZYP | 11 | 0 | 0 | 1 | 1 | 8 | 4 | 4 | 2 |
| OTH | 331 | 347 | 506 | 155 | 347 | 274 | 414 | 654 | 1,929 |

$\mathbf{2 2 5 , 4 7 9} \mathbf{2 6 6 , 0 3 5} 264,595450,969462,487111,495168,174176,628196,238$

*     - 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 | $\cdot$ | 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 |
|  | $\mathbf{4 2 6 , 8 1 4}$ | $\mathbf{2 8 4 , 5 1 6}$ | $\mathbf{3 0 4 , 5 0 3}$ | $\mathbf{3 1 4 , 9 5 7}$ | $\mathbf{2 5 1 , 6 0 5}$ | $\mathbf{1 9 6 , 7 9 8}$ | $\mathbf{2 4 5 , 1 7 2}$ | $\mathbf{1 9 4 , 9 9 1}$ | $\mathbf{2 3 0 , 3 2 6}$ | $\mathbf{2 1 0 , 8 7 4}$ | $\mathbf{3 7 7 , 0 3 8}$ |


| 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 |

$\mathbf{3 1 9 , 1 0 7} \mathbf{2 6 5 , 1 9 8} 100,979209,097103,098127,118213,516302,169270,051 \quad 153,643209,171$

| MONTH | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 4,973 | 625 | 3,758 | 142 | 217 | 3,458 | 497 | 127 | 5,091 |
| February | 11,110 | 17,747 | 8,684 | 4,136 | 18,848 | 10,231 | 2,901 | 6,360 | 21,490 |
| March | 75,786 | 75,158 | 39,918 | 84,249 | 132,218 | 15,693 | 51,813 | 59,604 | 60,532 |
| April | 37,109 | 54,366 | 72,662 | 155,782 | 164,810 | 19,478 | 53,614 | 34,512 | 33,790 |
| May | 18,678 | 26,086 | 68,741 | 102,399 | 89,798 | 9,302 | 9,674 | 11,339 | 12,895 |
| June | 8,222 | 7,749 | 7,817 | 23,929 | 11,276 | 4,871 | 2,359 | 4,525 | 10,860 |
| July | 15,423 | 13,019 | 8,022 | 16,834 | 6,453 | 6,614 | 6,794 | 9,823 | 15,145 |
| August | 18,736 | 30,540 | 18,437 | 22,030 | 14,286 | 19,333 | 16,881 | 28,271 | 26,964 |
| September | 13,130 | 19,041 | 20,021 | 18,973 | 9,711 | 13,089 | 14,890 | 14,534 | 7,850 |
| October | 10,381 | 12,185 | 8,966 | 10,816 | 5,224 | 6,788 | 5,145 | 4,869 | 1,107 |
| November | 6,693 | 5,829 | 4,275 | 8,682 | 3,761 | 1,281 | 2,800 | 964 | 130 |
| December | 5,237 | 3,689 | 3,294 | 2,997 | 5,885 | 1,357 | 806 | 1,699 | 385 |
|  | $\mathbf{2 2 5 , 4 7 9}$ | $\mathbf{2 6 6 , 0 3 5}$ | $\mathbf{2 6 4 , 5 9 5}$ | $\mathbf{4 5 0 , 9 6 9}$ | $\mathbf{4 6 2 , 4 8 7}$ | $\mathbf{1 1 1 , 4 9 5}$ | $\mathbf{1 6 8 , 1 7 4}$ | $\mathbf{1 7 6 , 6 2 8}$ | $\mathbf{1 9 6 , 2 3 8}$ |

## Catch summary tables

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | 6 | 7 | 5 | - | - | 0 | - |
| $\mathbf{4 0 0 - 5 9 9}$ | 98 | 761 | 936 | 1,245 | 2,579 | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 16,299 | 30,329 | 35,335 | 42,597 | 69,018 | 55,821 | 5,025 | 11,143 | 9,264 | 10,503 |
| $\mathbf{8 0 0 - 9 9 9}$ | 23,756 | 61,453 | 71,471 | 102,421 | 213,020 | 264,132 | 21,482 | 58,509 | 48,284 | 44,226 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 78,975 | 68,654 | 76,217 | 69,032 | 102,123 | 90,293 | 31,278 | 34,371 | 44,012 | 56,903 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 46,090 | 38,032 | 44,253 | 27,628 | 35,706 | 28,176 | 29,271 | 32,893 | 35,624 | 44,539 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 37,934 | 21,060 | 37,005 | 21,246 | 26,848 | 24,061 | 24,364 | 31,258 | 39,445 | 40,067 |
| $\mathbf{> 2 , 9 9 9}$ | 6,018 | 5,225 | 816 | 428 | 1,681 | - | 70 | - | - | - |
|  | $\mathbf{2 0 9 , 1 7 1}$ | $\mathbf{2 2 5 , 5 1 3}$ | $\mathbf{2 6 6 , 0 3 3}$ | $\mathbf{2 6 4 , 6 0 4}$ | $\mathbf{4 5 0 , 9 8 3}$ | $\mathbf{4 6 2 , 4 8 8}$ | $\mathbf{1 1 1 , 4 9 0}$ | $\mathbf{1 6 8 , 1 7 4}$ | $\mathbf{1 7 6 , 6 2 8}$ | $\mathbf{1 9 6 , 2 3 8}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 730 | 2,831 | 936 | 1,720 | 2,823 | 640 | 980 | - | 122 | - |
| $\mathbf{4 5 - 4 9}$ | 11,903 | 12,256 | 16,447 | 18,793 | 25,519 | 24,364 | 4,186 | 5,227 | 5,525 | 1,827 |
| $\mathbf{5 0 - 5 4}$ | 12,015 | 23,916 | 30,234 | 32,464 | 58,004 | 44,182 | 8,065 | 9,347 | 9,006 | 12,116 |
| $\mathbf{5 5 - 5 9}$ | 23,450 | 37,177 | 40,142 | 46,226 | 65,129 | 65,313 | 8,481 | 16,819 | 13,010 | 19,087 |
| $\mathbf{6 0 - 6 4}$ | 26,009 | 37,730 | 43,878 | 48,833 | 71,260 | 72,552 | 12,110 | 14,748 | 18,039 | 23,841 |
| $\mathbf{6 5 - 6 9}$ | 55,724 | 50,627 | 56,227 | 48,495 | 92,152 | 102,163 | 29,818 | 43,196 | 44,090 | 47,489 |
| $\mathbf{7 0 - 7 9}$ | 53,350 | 42,939 | 57,385 | 55,973 | 119,367 | 140,424 | 33,393 | 61,539 | 61,687 | 67,774 |
| $\mathbf{8 0 - 8 9}$ | 9,688 | 6,480 | 8,790 | 5,509 | 7,152 | 5,776 | 6,457 | 9,707 | 11,514 | 10,930 |
| $>\mathbf{8 9}$ | 16,301 | 11,556 | 11,993 | $\mathbf{6 , 5 9 1}$ | $\mathbf{9 , 5 7 6}$ | 7,074 | 7,999 | 7,590 | 13,634 | 13,173 |
|  | $\mathbf{2 0 9 , 1 7 1}$ | $\mathbf{2 2 5 , 5 1 3}$ | $\mathbf{2 6 6 , 0 3 3}$ | $\mathbf{2 6 4 , 6 0 4}$ | $\mathbf{4 5 0 , 9 8 3}$ | $\mathbf{4 6 2 , 4 8 8}$ | $\mathbf{1 1 1 , 4 9 0}$ | $\mathbf{1 6 8 , 1 7 4}$ | $\mathbf{1 7 6 , 6 2 8}$ | $\mathbf{1 9 6 , 2 3 8}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 , 0 0 0}$ | 2 | - | - | 830 | 7 | 5 | - | - | 478 | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | 730 | 1,797 | 936 | 1,714 | 2,816 | 635 | 980 | - | 621 | 493 |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 3,748 | 6,975 | 9,397 | 12,327 | 17,228 | 14,155 | 23 | 2,434 | 1,989 | 1,446 |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 19,155 | 34,656 | 37,546 | 40,149 | 65,903 | 55,975 | 11,893 | 15,235 | 13,860 | 19,552 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 14,060 | 13,842 | 15,531 | 20,933 | 37,281 | 36,051 | 4,155 | 5,580 | 2,936 | 2,744 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 65,587 | 72,033 | 80,486 | 71,511 | 106,547 | 95,240 | 34,438 | 36,171 | 33,859 | 45,919 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 35,584 | 46,105 | 51,715 | 57,991 | 121,199 | 138,870 | 16,116 | 34,129 | 31,266 | 29,225 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 4,138 | 10,517 | 13,894 | 22,235 | 48,833 | 75,132 | 4,877 | 23,329 | 24,009 | 21,311 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 44,567 | 25,394 | 39,107 | 24,208 | 29,982 | 26,662 | 26,714 | 33,228 | 47,142 | 55,226 |
| $\mathbf{> 3 , 9 9 9}$ | 21,599 | 14,193 | 17,421 | 12,705 | 21,185 | 19,764 | 12,294 | 18,068 | 20,438 | 20,321 |
|  | $\mathbf{2 0 9 , 1 7 1}$ | $\mathbf{2 2 5 , 5 1 3}$ | $\mathbf{2 6 6 , 0 3 3}$ | $\mathbf{2 6 4 , 6 0 4}$ | $\mathbf{4 5 0 , 9 8 3}$ | $\mathbf{4 6 2 , 4 8 8}$ | $\mathbf{1 1 1 , 4 9 0}$ | $\mathbf{1 6 8 , 1 7 4}$ | $\mathbf{1 7 6 , 5 9 9}$ | $\mathbf{1 9 6 , 2 3 8}$ |

## 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 | - |

$426,814284,516304,503 \quad 314,957 \quad 251,605 \quad 196,798 \quad 245,172 \quad 194,991 \quad 230,326 \quad 210,874377,038$

| 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

| FLEET | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{C B}$ | 1,144 | 1,695 | 1,468 | - | - | - | - | - | - |
| CL | - | - | - | 1,729 | - | - | 276 | - | - |
| ES | 77,895 | 84,914 | 59,011 | 81,264 | 68,438 | 48,165 | 34,020 | 35,018 | 63,580 |
| FK | 62,196 | 85,829 | 60,473 | 67,685 | 52,458 | 55,263 | 63,892 | 84,051 | 85,444 |
| JP | 4,745 | 109 | - | - | - | - | - | - | - |
| KR | 26,310 | 32,786 | 52,216 | 107,343 | 101,309 | 2,743 | 17,902 | 13,440 | 9,929 |
| RU | - | - | - | - | - | - | - | - | - |
| SL | - | 340 | - | - | - | - | - | - | - |
| TW | 48,540 | 55,327 | 86,147 | 178,389 | 223,339 | 2,058 | 45,209 | 36,518 | 30,687 |
| UK | 2,861 | 5,033 | 2,968 | 3,528 | 3,749 | 3,184 | 4,212 | 4,902 | 5,090 |
| VU | 1,821 | - | 2,322 | 11,044 | 13,195 | 77 | 2,664 | 2,669 | 1,507 |
|  | $\mathbf{2 2 5 , 5 1 3}$ | $\mathbf{2 6 6 , 0 3 3}$ | $\mathbf{2 6 4 , 6 0 4}$ | $\mathbf{4 5 0 , 9 8 3}$ | $\mathbf{4 6 2 , 4 8 8}$ | $\mathbf{1 1 1 , 4 9 0}$ | $\mathbf{1 6 8 , 1 7 4}$ | $\mathbf{1 7 6 , 5 9 9}$ | $\mathbf{1 9 6 , 2 3 8}$ |

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

| VESSEL TYPE | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{J I}$ | 11,645 | 73,577 | 84,619 | 139,137 | 291,774 | 332,863 | 2,297 | 63,807 | 51,360 | 41,538 |
| TR | 466 | 5,688 | 2,383 | 3,481 | 14,348 | 24,861 | 57 | 3,638 | 3,012 | 1,860 |
|  | $\mathbf{1 2 , 1 1 1}$ | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 2 2}$ | $\mathbf{3 5 7 , 7 2 4}$ | $\mathbf{2 , 3 5 5}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 3 7 2}$ | $\mathbf{4 3 , 3 9 8}$ |

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

| MONTH | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | - | - | 1 | - | - | - | 1 | 0 | - | - |
| February | 134 | 987 | 9,247 | 195 | 7 | 13,918 | 77 | 9 | 3,814 | 11,145 |
| March | 9,847 | 60,836 | 40,558 | 20,910 | 66,670 | 110,741 | 2,055 | 29,892 | 34,124 | 29,345 |
| April | 2,128 | 17,382 | 29,213 | 57,455 | 137,647 | 153,163 | 199 | 33,121 | 14,647 | 2,796 |
| May | 1 | 59 | 7,959 | 59,361 | 87,696 | 75,544 | 19 | 4,415 | 1,785 | 111 |
| June | - | 0 | 23 | 4,695 | 14,007 | 4,352 | 2 | 8 | 1 | - |
| July | - | - | - | 2 | 94 | 6 | 0 | 0 | 0 | 0 |
| August | - | - | - | 2 | 1 | 0 | 0 | 0 | 0 | 1 |
| September | 0 | - | - | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| October | 1 | - | 0 | - | - | - | 1 | 0 | - | - |
| November | - | 0 | - | - | - | - | - | - | - | - |
| December | - | 0 | - | - | - | - | 0 | 0 | 0 | - |
|  | $\mathbf{1 2 , 1 1 1}$ | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 2 2}$ | $\mathbf{3 5 7 , 7 2 4}$ | $\mathbf{2 , 3 5 5}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 3 7 2}$ | $\mathbf{4 3 , 3 9 8}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CB | 94 | 1,144 | 1,695 | 1,468 | - | - | - | - | - | - |
| ES | 187 | 2,035 | 509 | 2,798 | 9,527 | 9,809 | 46 | 2,800 | 1,545 | 1,161 |
| FK | 67 | 2,828 | 572 | 650 | 2,870 | 11,889 | 12 | 278 | 946 | 163 |
| KR | 5,635 | 22,892 | 28,554 | 49,236 | 104,257 | 98,584 | 162 | 16,491 | 12,695 | 9,878 |
| SL | 178 | - | 340 | - | - | - | - | - | - | - |
| TW | 5,808 | 48,540 | 55,327 | 86,147 | 178,389 | 223,339 | 2,058 | 45,209 | 36,517 | 30,687 |
| UK | - | 4 | 6 | 0 | 36 | 909 | - | 3 | 0 | 0 |
| VU | 142 | 1,821 | - | 2,322 | 11,044 | 13,195 | 77 | 2,664 | 2,669 | 1,507 |
|  | $\mathbf{1 2 , 1 1 1}$ | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 2 2}$ | $\mathbf{3 5 7 , 7 2 4}$ | $\mathbf{2 , 3 5 5}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 3 7 2}$ | $\mathbf{4 3 , 3 9 8}$ |

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | 98 | 761 | 936 | 1,245 | 2,579 | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 4,173 | 21,395 | 24,365 | 35,080 | 61,707 | 49,495 | 72 | 7,625 | 4,897 | 3,601 |
| $\mathbf{8 0 0 - 9 9 9}$ | 6,679 | 46,325 | 54,022 | 85,758 | 192,671 | 246,467 | 2,036 | 49,872 | 37,118 | 27,906 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 1,064 | 8,428 | 7,576 | 19,714 | 46,916 | 49,307 | 233 | 9,251 | 11,892 | 11,620 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 96 | 1,184 | 102 | 821 | 2,131 | 5,474 | 11 | 691 | 438 | 268 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | - | 1,173 | 1 | 0 | 119 | 6,981 | 2 | 6 | 27 | 4 |
| $\mathbf{> 2 , 9 9 9}$ | - | - | - | - | 0 | - | - | - | - | - |
|  | $\mathbf{1 2 , 1 1 1}$ | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 2 2}$ | $\mathbf{3 5 7 , 7 2 4}$ | $\mathbf{2 , 3 5 5}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 3 7 2}$ | $\mathbf{4 3 , 3 9 8}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 98 | 871 | 936 | 1,245 | 2,579 | - | - | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 1,268 | 5,096 | 6,637 | 11,610 | 19,372 | 18,956 | 16 | 2,938 | 2,987 | 1,827 |
| $\mathbf{5 0 - 5 4}$ | 3,285 | 16,605 | 18,971 | 24,447 | 49,123 | 35,478 | 23 | 4,884 | 2,928 | 2,148 |
| $\mathbf{5 5 - 5 9}$ | 2,757 | 20,557 | 21,552 | 30,728 | 54,795 | 56,002 | 355 | 10,839 | 5,925 | 4,048 |
| $\mathbf{6 0 - 6 4}$ | 2,236 | 17,115 | 19,929 | 29,740 | 49,074 | 56,735 | 232 | 9,354 | 6,958 | 7,472 |
| $\mathbf{6 5 - 6 9}$ | 2,068 | 12,850 | 13,351 | 21,415 | 54,216 | 76,182 | 742 | 17,352 | 16,152 | 13,014 |
| $\mathbf{7 0 - 7 9}$ | 399 | 5,283 | 5,626 | 23,434 | 76,947 | 110,597 | 986 | 22,074 | 19,395 | 14,885 |
| $\mathbf{8 0 - 8 9}$ | - | 503 | - | - | 6 | 1,637 | 1 | 1 | 0 | 0 |
| $>\mathbf{8 9}$ | - | 384 | - | 0 | 11 | 2,137 | 1 | 2 | 26 | 3 |
|  | $\mathbf{1 2 , 1 1 1}$ | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 2 2}$ | $\mathbf{3 5 7 , 7 2 4}$ | $\mathbf{2 , 3 5 5}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 3 7 2}$ | $\mathbf{4 3 , 3 9 8}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 , 0 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | 98 | 761 | 936 | 1,245 | 2,579 | - | - | - | 621 | 493 |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 947 | 5,208 | 6,132 | 9,847 | 14,863 | 12,681 | 23 | 2,434 | 1,989 | 1,446 |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 3,400 | 20,724 | 21,094 | 27,555 | 51,947 | 42,725 | 89 | 5,513 | 2,844 | 1,711 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 1,696 | 6,841 | 9,683 | 15,648 | 32,897 | 31,886 | 97 | 5,126 | 2,936 | 2,744 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 2,999 | 22,098 | 23,344 | 33,294 | 62,445 | 64,253 | 291 | 12,463 | 8,295 | 5,384 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 2,019 | 14,523 | 18,196 | 34,270 | 89,699 | 116,396 | 944 | 19,909 | 16,336 | 13,842 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 946 | 7,248 | 7,565 | 17,615 | 43,767 | 70,356 | 783 | 20,271 | 19,993 | 17,031 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 6 | 1,362 | 47 | 2 | 161 | 7,005 | 3 | 8 | 29 | 12 |
| $\mathbf{> 3 , 9 9 9}$ | - | 499 | 4 | 3,144 | 7,764 | 12,423 | 127 | 1,723 | 1,329 | 734 |
|  | $\mathbf{1 2 , 1 1 1}$ | $\mathbf{7 9 , 2 6 4}$ | $\mathbf{8 7 , 0 0 2}$ | $\mathbf{1 4 2 , 6 1 9}$ | $\mathbf{3 0 6 , 1 2 2}$ | $\mathbf{3 5 7 , 7 2 4}$ | $\mathbf{2 , 3 5 5}$ | $\mathbf{6 7 , 4 4 5}$ | $\mathbf{5 4 , 3 7 2}$ | $\mathbf{4 3 , 3 9 8}$ |

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | 98 | 761 | 936 | 1,245 | 2,579 | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 4,152 | 21,000 | 24,327 | 34,767 | 60,488 | 48,489 | 68 | 7,266 | 4,457 | 3,450 |
| $\mathbf{8 0 0 - 9 9 9}$ | 6,457 | 45,065 | 52,609 | 85,278 | 188,197 | 242,582 | 2,028 | 48,762 | 35,671 | 27,193 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 937 | 6,751 | 6,748 | 17,848 | 40,510 | 41,792 | 202 | 7,779 | 11,232 | 10,894 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{> 2 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
|  | $\mathbf{1 1 , 6 4 5}$ | $\mathbf{7 3 , 5 7 7}$ | $\mathbf{8 4 , 6 1 9}$ | $\mathbf{1 3 9 , 1 3 7}$ | $\mathbf{2 9 1 , 7 7 4}$ | $\mathbf{3 3 2 , 8 6 3}$ | $\mathbf{2 , 2 9 7}$ | $\mathbf{6 3 , 8 0 7}$ | $\mathbf{5 1 , 3 6 0}$ | $\mathbf{4 1 , 5 3 8}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 98 | 761 | 936 | 1,245 | 2,579 | - | - | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 1,256 | 4,973 | 6,610 | 11,326 | 18,786 | 18,136 | 15 | 2,938 | 2,487 | 1,827 |
| $\mathbf{5 0 - 5 4}$ | 3,273 | 16,346 | 18,870 | 24,287 | 48,080 | 34,429 | 20 | 4,359 | 2,373 | 1,996 |
| $\mathbf{5 5 - 5 9}$ | 2,527 | 19,081 | 19,894 | 30,141 | 51,404 | 52,549 | 348 | 9,505 | 5,092 | 3,205 |
| $\mathbf{6 0 - 6 4}$ | 2,154 | 16,409 | 19,619 | 28,849 | 45,361 | 53,966 | 210 | 9,015 | 6,792 | 7,370 |
| $\mathbf{6 5 - 6 9}$ | 1,967 | 12,164 | 13,163 | 20,896 | 50,906 | 71,209 | 725 | 16,231 | 15,538 | 12,677 |
| $\mathbf{7 0 - 7 9}$ | 370 | 3,843 | 5,529 | 22,393 | 74,658 | 102,574 | 980 | 21,759 | 19,078 | 14,463 |
| $\mathbf{8 0 - 8 9}$ | - | - | - | - | - | - | - | - | - | - |
| $>\mathbf{8 9}$ | - | - | - | - | - | - | - | - | - | - |
|  | $\mathbf{1 1 , 6 4 5}$ | $\mathbf{7 3 , 5 7 7}$ | $\mathbf{8 4 , 6 1 9}$ | $\mathbf{1 3 9 , 1 3 7}$ | $\mathbf{2 9 1 , 7 7 4}$ | $\mathbf{3 3 2 , 8 6 3}$ | $\mathbf{2 , 2 9 7}$ | $\mathbf{6 3 , 8 0 7}$ | $\mathbf{5 1 , 3 6 0}$ | $\mathbf{4 1 , 5 3 8}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{1 , 0 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | 98 | 761 | 936 | 1,245 | 2,579 | - | - | - | 621 | 493 |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 946 | 5,208 | 6,127 | 9,621 | 14,306 | 12,350 | 23 | 2,434 | 1,989 | 1,446 |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 3,386 | 20,053 | 21,034 | 27,247 | 50,110 | 40,864 | 82 | 4,770 | 2,168 | 1,530 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 1,643 | 6,419 | 9,424 | 15,402 | 31,778 | 31,524 | 94 | 5,126 | 2,936 | 2,744 |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 2,879 | 20,887 | 22,837 | 32,067 | 57,113 | 59,143 | 253 | 10,607 | 6,930 | 4,767 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 1,959 | 13,821 | 18,068 | 32,901 | 86,665 | 111,654 | 938 | 19,608 | 16,040 | 13,331 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 734 | 6,428 | 6,194 | 17,510 | 41,471 | 67,731 | 782 | 19,547 | 19,355 | 16,495 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{> 3 , 9 9 9}$ | - | - | - | 3,144 | 7,752 | 9,599 | 125 | 1,715 | 1,320 | 732 |
|  | $\mathbf{1 1 , 6 4 5}$ | $\mathbf{7 3 , 5 7 7}$ | $\mathbf{8 4 , 6 1 9}$ | $\mathbf{1 3 9 , 1 3 7}$ | $\mathbf{2 9 1 , 7 7 4}$ | $\mathbf{3 3 2 , 8 6 3}$ | $\mathbf{2 , 2 9 7}$ | $\mathbf{6 3 , 8 0 7}$ | $\mathbf{5 1 , 3 6 0}$ | $\mathbf{4 1 , 5 3 8}$ |

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 21 | 394 | 38 | 314 | 1,219 | 1,006 | 4 | 359 | 440 | 150 |
| $\mathbf{8 0 0 - 9 9 9}$ | 222 | 1,259 | 1,413 | 480 | 4,474 | 3,885 | 9 | 1,109 | 1,448 | 712 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 127 | 1,678 | 828 | 1,866 | 6,406 | 7,515 | 32 | 1,473 | 659 | 726 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 96 | 1,184 | 102 | 821 | 2,131 | 5,474 | 11 | 691 | 438 | 268 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | - | 1,173 | 1 | 0 | 119 | 6,981 | 2 | 6 | 27 | 4 |
| $>\mathbf{2 , 9 9 9}$ | - | - | - | - | 0 | - | - | - | - | - |
|  | $\mathbf{4 6 6}$ | $\mathbf{5 , 6 8 8}$ | $\mathbf{2 , 3 8 3}$ | $\mathbf{3 , 4 8 1}$ | $\mathbf{1 4 , 3 4 8}$ | $\mathbf{2 4 , 8 6 1}$ | $\mathbf{5 7}$ | $\mathbf{3 , 6 3 8}$ | $\mathbf{3 , 0 1 2}$ | $\mathbf{1 , 8 6 0}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | - | 110 | - | - | - | - | - | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 12 | 123 | 27 | 285 | 586 | 820 | 1 | 0 | 500 | - |
| $\mathbf{5 0 - 5 4}$ | 12 | 259 | 102 | 159 | 1,042 | 1,048 | 4 | 526 | 556 | 152 |
| $\mathbf{5 5 - 5 9}$ | 230 | 1,476 | 1,658 | 587 | 3,391 | 3,453 | 7 | 1,334 | 834 | 842 |
| $\mathbf{6 0 - 6 4}$ | 82 | 705 | 311 | 891 | 3,713 | 2,768 | 22 | 339 | 167 | 102 |
| $\mathbf{6 5 - 6 9}$ | 101 | 686 | 188 | 519 | 3,310 | 4,973 | 17 | 1,121 | 614 | 338 |
| $\mathbf{7 0 - 7 9}$ | 29 | 1,440 | 98 | 1,041 | 2,289 | 8,024 | 6 | 315 | 317 | 423 |
| $\mathbf{8 0 - 8 9}$ | - | 503 | - | - | 6 | 1,637 | 1 | 1 | 0 | 0 |
| $>\mathbf{8 9}$ | - | 384 | - | 0 | 11 | 2,137 | 1 | 2 | $\mathbf{2 6}$ | 3 |
|  | $\mathbf{4 6 6}$ | $\mathbf{5 , 6 8 8}$ | $\mathbf{2 , 3 8 3}$ | $\mathbf{3 , 4 8 1}$ | $\mathbf{1 4 , 3 4 8}$ | $\mathbf{2 4 , 8 6 1}$ | $\mathbf{5 7}$ | $\mathbf{3 , 6 3 8}$ | $\mathbf{3 , 0 1 2}$ | $\mathbf{1 , 8 6 0}$ |

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

| BHP | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{1 , 0 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 1 | - | 6 | 225 | 557 | 331 | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 14 | 670 | 60 | 308 | 1,838 | 1,861 | 7 | 742 | 676 | 181 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 52 | 422 | 259 | 246 | 1,119 | 362 | 3 | - | - | - |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 120 | 1,211 | 507 | 1,227 | 5,332 | 5,110 | 38 | 1,855 | 1,365 | 617 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 61 | 703 | 128 | 1,368 | 3,034 | 4,742 | 5 | 301 | 295 | 511 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 212 | 821 | 1,371 | 105 | 2,296 | 2,625 | 0 | 724 | 637 | 536 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 6 | 1,362 | 47 | 2 | 161 | 7,005 | 3 | 8 | 29 | 12 |
| $\mathbf{> 3 , 9 9 9}$ | - | 499 | 4 | - | 12 | 2,824 | 1 | 8 | 10 | 2 |
|  | $\mathbf{4 6 6}$ | $\mathbf{5 , 6 8 8}$ | $\mathbf{2 , 3 8 3}$ | $\mathbf{3 , 4 8 1}$ | $\mathbf{1 4 , 3 4 8}$ | $\mathbf{2 4 , 8 6 1}$ | $\mathbf{5 7}$ | $\mathbf{3 , 6 3 8}$ | $\mathbf{3 , 0 1 2}$ | $\mathbf{1 , 8 6 0}$ |

Illex argentinus
First Season 2019 (01 Jan to 30 Jun)


Length- frequency distribution and length-weight relationship in trawler fleet in 2019



## Illex argentinus-Illex squid

Length- frequency distribution and length-weight relationship in jigger fleet in 2019



## Doryteuthis gahi - Falkland Calamari

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

| VESSEL TYPE | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 66,543 | 34,675 | 70,897 | 40,168 | 48,700 | 30,317 | 46,447 | 64,676 | 79,996 | 81,908 |
|  | $\mathbf{6 6 , 5 4 3}$ | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 7}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 0}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 6}$ | $\mathbf{7 9 , 9 9 6}$ | $\mathbf{8 1 , 9 0 8}$ |

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

| MONTH | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 0 | - | - | - | - | - | 0 | 5 | - | 2 |
| February | 4,455 | 1,308 | 3,885 | 1,293 | 2,167 | 2,048 | 1,222 | 2,224 | 1,407 | 6,377 |
| March | 16,963 | 10,276 | 21,154 | 12,983 | 13,832 | 14,630 | 8,713 | 20,244 | 23,412 | 26,926 |
| April | 7,733 | 3,826 | 9,917 | 5,724 | 12,318 | 3,007 | 12,832 | 16,322 | 16,852 | 22,638 |
| May | 5 | 20 | 18 | 35 | 47 | 115 | 55 | 1,081 | 1,715 | 516 |
| June | 3 | 11 | 22 | 9 | 15 | 4 | 17 | 24 | 15 | 23 |
| July | 11,013 | 7,075 | 6,362 | 5,006 | 4,800 | 1,176 | 1,879 | 2,509 | 3,745 | 4,537 |
| August | 16,654 | 8,186 | 17,595 | 7,740 | 9,641 | 8,056 | 12,746 | 12,432 | 22,910 | 18,877 |
| September | 9,622 | 3,856 | 11,784 | 7,223 | 5,778 | 1,204 | 7,763 | 9,016 | 9,273 | 2,002 |
| October | 80 | 99 | 145 | 132 | 92 | 55 | 1,217 | 817 | 657 | 8 |
| November | 16 | 18 | 15 | 21 | 11 | 20 | 2 | 2 | 7 | 0 |
| December | 0 | - | 1 | 1 | - | 3 | - | 0 | 2 | - |
|  | $\mathbf{6 6 , 5 4 3}$ | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 7}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 0}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 6}$ | $\mathbf{7 9 , 9 9 6}$ | $\mathbf{8 1 , 9 0 8}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 3,723 | 2,614 | 3,353 | 2,261 | 2,442 | 1,676 | 2,851 | 6,677 | 4,615 | 4,026 |
| FK | 58,016 | 30,580 | 62,671 | 35,243 | 42,927 | 26,478 | 40,823 | 54,039 | 70,680 | 73,148 |
| JP | 0 | - | - | - | - | - | - | - | - | - |
| KR | 34 | 54 | 87 | 34 | 39 | 2 | 7 | 12 | 1 | 2 |
| UK | 4,770 | 1,426 | 4,786 | 2,629 | 3,292 | 2,161 | 2,767 | 3,948 | 4,699 | 4,732 |
|  | $\mathbf{6 6 , 5 4 3}$ | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 7}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 0}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 6}$ | $\mathbf{7 9 , 9 9 6}$ | $\mathbf{8 1 , 9 0 8}$ |

## Doryteuthis gahi - Falkland Calamari

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 76 | 45 | 97 | 58 | 30 | 13 | 48 | 62 | 22 | 29 |
| $\mathbf{8 0 0 - 9 9 9}$ | 3,030 | 1,892 | 3,405 | 2,157 | 2,371 | 1,598 | 2,509 | 2,666 | 65 | 57 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 10,769 | 5,967 | 11,167 | 6,988 | 7,906 | 5,056 | 7,935 | 10,897 | 16,263 | 16,448 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 20,173 | 9,554 | 21,284 | 11,990 | 14,603 | 9,377 | 13,775 | 21,467 | 25,104 | 26,130 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 32,494 | 17,212 | 34,932 | 18,969 | 23,784 | 14,272 | 22,180 | 29,584 | 38,542 | 39,244 |
| $>\mathbf{2 , 9 9 9}$ | 0 | 4 | 13 | 7 | 5 | - | - | - | - | - |
|  | $\mathbf{6 6 , 5 4 3}$ | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 7}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 0}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 6}$ | $\mathbf{7 9 , 9 9 6}$ | $\mathbf{8 1 , 9 0 8}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 0 | 12 | - | 1 | 0 | 3 | 2 | - | 0 | - |
| $\mathbf{4 5 - 4 9}$ | 2,728 | 1,702 | 3,321 | 2,111 | 2,318 | 1,577 | 2,431 | 1,368 | 41 | - |
| $\mathbf{5 0 - 5 4}$ | 77 | 35 | 114 | 60 | 36 | 14 | 53 | 62 | 20 | 29 |
| $\mathbf{5 5 - 5 9}$ | 345 | 213 | 124 | 60 | 50 | 4 | 80 | 59 | 25 | 44 |
| $\mathbf{6 0 - 6 4}$ | 34 | 27 | 801 | 340 | 252 | 36 | 278 | 16 | 4,735 | 4,828 |
| $\mathbf{6 5 - 6 9}$ | 15,921 | 6,729 | 15,702 | 9,404 | 11,389 | 7,275 | 10,677 | 15,969 | 16,474 | 12,620 |
| $\mathbf{7 0 - 7 9}$ | 30,114 | 16,643 | 32,318 | 18,060 | 21,758 | 13,623 | 20,214 | 31,793 | 34,588 | 40,846 |
| $\mathbf{8 0 - 8 9}$ | 7,655 | 4,335 | 8,114 | 4,772 | 5,937 | 3,381 | 5,471 | 8,317 | 10,800 | 10,479 |
| $>\mathbf{8 9}$ | 9,669 | 4,979 | 10,403 | 5,361 | $\mathbf{6 , 9 5 9}$ | 4,403 | 7,241 | 7,092 | 13,312 | 13,061 |
|  | $\mathbf{6 6 , 5 4 3}$ | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 7}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 0}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 6}$ | $\mathbf{7 9 , 9 9 6}$ | $\mathbf{8 1 , 9 0 8}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1 , 0 0 0}$ | - | - | - | 1 | - | - | - | - | 3 | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | 0 | 6 | - | 1 | 0 | 3 | 2 | - | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | - | - | 0 | 1 | - | - | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 3,659 | 1,919 | 2,982 | 2,160 | 2,116 | 1,561 | 2,455 | 3,488 | 3,610 | 3,783 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 24 | 17 | 744 | 307 | 39 | 8 | 257 | - | - | - |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 6,006 | 3,603 | 6,840 | 3,871 | 4,418 | 3,216 | 4,635 | 6,272 | 3,851 | 3,461 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 7,302 | 4,101 | 7,694 | 4,709 | 5,550 | 3,679 | 5,819 | 8,920 | 8,898 | 3,865 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 31 | 47 | 81 | 31 | 36 | 2 | 10 | 12 | 2 | 2 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 34,941 | 17,118 | 35,978 | 20,322 | 25,298 | 14,956 | 22,740 | 30,213 | 44,931 | 51,373 |
| $\mathbf{> 3 , 9 9 9}$ | 14,580 | 7,863 | 16,579 | 8,766 | 11,242 | 6,891 | 10,530 | 15,772 | 18,701 | 19,424 |
|  | $\mathbf{6 6 , 5 4 3}$ | $\mathbf{3 4 , 6 7 5}$ | $\mathbf{7 0 , 8 9 7}$ | $\mathbf{4 0 , 1 6 8}$ | $\mathbf{4 8 , 7 0 0}$ | $\mathbf{3 0 , 3 1 7}$ | $\mathbf{4 6 , 4 4 7}$ | $\mathbf{6 4 , 6 7 6}$ | $\mathbf{7 9 , 9 9 6}$ | $\mathbf{8 1 , 9 0 8}$ |



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## Doryteuthis gahi - Falkland Calamari

Length- frequency distribution and length-weight relationship during First Season 2019



## Doryteuthis gahi - Falkland Calamari

Length- frequency distribution and length-weight relationship during Second Season 2019



## Micromesistius australis - Southern Blue Whiting

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

| VESSEL TYPE | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 6,471 | 3,940 | 1,596 | 2,698 | 3,612 | 2,790 | 5,415 | 2,309 | 992 | 518 |
|  | $\mathbf{6 , 4 7 1}$ | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ | $\mathbf{5 1 8}$ |

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

| MONTH | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 1,439 | 199 | 36 | 162 | - | - | 1,189 | 157 | - | 190 |
| February | 32 | 233 | 39 | 375 | 123 | 184 | 1,420 | 283 | 59 | 132 |
| March | 107 | 26 | 219 | 205 | 137 | 28 | 1,002 | 176 | 64 | 3 |
| April | 414 | 220 | 95 | 116 | 127 | 5 | 816 | 14 | 21 | 1 |
| May | 76 | 27 | 7 | 84 | 0 | 4 | 83 | 1 | 12 | 0 |
| June | 9 | 10 | 3 | 8 | 15 | - | 1 | - | - | 0 |
| July | 2 | 7 | 9 | 47 | 14 | 1 | 2 | 3 | 1 | 0 |
| August | 296 | 543 | 727 | 897 | 55 | 97 | 580 | 616 | 704 | 192 |
| September | 248 | 496 | 138 | 758 | 1,670 | 121 | 116 | 515 | 52 | 0 |
| October | 537 | 5 | 211 | 14 | 212 | 147 | 40 | 482 | 2 | 0 |
| November | 2,171 | 1,369 | 31 | 1 | 1,211 | 1,687 | 52 | 60 | 2 | - |
| December | 1,141 | 805 | 81 | 32 | 47 | 517 | 114 | 2 | 76 | - |
|  | $\mathbf{6 , 4 7 1}$ | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ | $\mathbf{5 1 8}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{C L}$ | - | - | - | - | 1,155 | - | - | - | - | - |
| ES | 1,010 | 818 | 1,157 | 834 | 578 | 2,488 | 4,578 | 1,796 | 925 | 431 |
| FK | 375 | 764 | 412 | 1,669 | 1,795 | 273 | 800 | 509 | 67 | 87 |
| JP | 5,062 | 2,282 | 24 | - | - | - | - | - | - | - |
| KR | 24 | 31 | 3 | 32 | 2 | 0 | 8 | - | - | - |
| UK | 1 | 45 | 1 | 163 | 82 | 29 | 29 | 4 | 0 | - |
|  | $\mathbf{6 , 4 7 1}$ | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ | $\mathbf{5 1 8}$ |

## Micromesistius australis - Southern Blue Whiting

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 347 | 65 | 165 | 127 | 29 | 28 | 499 | 65 | 2 | 0 |
| $\mathbf{8 0 0 - 9 9 9}$ | 241 | 115 | 142 | 299 | 171 | 569 | 1,118 | 195 | 52 | 40 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 269 | 229 | 225 | 657 | 810 | 1,449 | 1,845 | 857 | 204 | 211 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 521 | 1,024 | 882 | 910 | 455 | 597 | 1,812 | 956 | 724 | 214 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 31 | 226 | 158 | 705 | 991 | 148 | 141 | 237 | 9 | 52 |
| $\mathbf{> 2 , 9 9 9}$ | 5,062 | 2,282 | 24 | - | 1,155 | - | - | - | - | - |
|  | $\mathbf{6 , 4 7 1}$ | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ | $\mathbf{5 1 8}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 15 | 1 | - | - | - | 132 | 26 | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 57 | 14 | 47 | 80 | 96 | 57 | 23 | 1 | 1 | - |
| $\mathbf{5 0 - 5 4}$ | 291 | 63 | 162 | 177 | 39 | 34 | 519 | 105 | 1 | 0 |
| $\mathbf{5 5 - 5 9}$ | 248 | 115 | 132 | 369 | 37 | 189 | 408 | 121 | 5 | 22 |
| $\mathbf{6 0 - 6 4}$ | 92 | 22 | 112 | 133 | 101 | 590 | 1,317 | 432 | 144 | 106 |
| $\mathbf{6 5 - 6 9}$ | 592 | 695 | 873 | 661 | 709 | 887 | 2,060 | 1,061 | 806 | 310 |
| $\mathbf{7 0 - 7 9}$ | 72 | 343 | 158 | 640 | 539 | 792 | 1,032 | 409 | 25 | 80 |
| $\mathbf{8 0 - 8 9}$ | 19 | 211 | 50 | 240 | 490 | 32 | 5 | 107 | 5 | - |
| $>\mathbf{8 9}$ | 5,085 | 2,475 | 62 | 397 | 1,602 | 78 | 25 | 72 | 3 | - |
|  | $\mathbf{6 , 4 7 1}$ | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ | $\mathbf{5 1 8}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 , 0 0 0}$ | - | - | - | - | - | - | - | - | 1 | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | 15 | - | - | - | - | 132 | 26 | - | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 51 | - | 14 | 4 | 1 | - | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 423 | 176 | 239 | 296 | 314 | 222 | 820 | 232 | 25 | 22 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 76 | 7 | 72 | 70 | 42 | 1 | 83 | - | - | - |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 690 | 838 | 978 | 845 | 289 | 1,375 | 3,345 | 1,463 | 896 | 402 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 76 | 96 | 44 | 146 | 167 | 855 | 811 | 286 | 31 | 9 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 22 | 31 | 21 | 86 | 13 | 6 | 28 | 41 | - | - |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 54 | 394 | 157 | 1,043 | 1,407 | 166 | 99 | 230 | 35 | 85 |
| $\mathbf{> 3 , 9 9 9}$ | 5,065 | 2,398 | 71 | 208 | 1,380 | 34 | 203 | 57 | 3 | 0 |
|  | $\mathbf{6 , 4 7 1}$ | $\mathbf{3 , 9 4 0}$ | $\mathbf{1 , 5 9 6}$ | $\mathbf{2 , 6 9 8}$ | $\mathbf{3 , 6 1 2}$ | $\mathbf{2 , 7 9 0}$ | $\mathbf{5 , 4 1 5}$ | $\mathbf{2 , 3 0 9}$ | $\mathbf{9 9 2}$ | $\mathbf{5 1 8}$ |



Length- frequency distribution and length-weight relationship in 2019



## Macruronus magellanicus-Hoki

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

| VESSEL TYPE | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 19,227 | 22,979 | 15,867 | 16,849 | 7,392 | 6,845 | 11,562 | 4,053 | 4,439 | 7,407 |
|  | $\mathbf{1 9 , 2 2 7}$ | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 9}$ | $\mathbf{7 , 4 0 7}$ |

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

| MONTH | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 179 | 635 | 230 | 2,010 | - | - | 211 | 22 | - | 3,988 |
| February | 1,834 | 1,289 | 535 | 2,196 | 754 | 484 | 4,655 | 146 | 639 | 2,078 |
| March | 1,893 | 1,264 | 2,414 | 1,745 | 1,521 | 3,836 | 2,277 | 530 | 901 | 1,046 |
| April | 2,772 | 5,769 | 2,508 | 3,043 | 2,811 | 1,610 | 2,596 | 770 | 503 | 77 |
| May | 1,270 | 2,609 | 652 | 3,414 | 774 | 256 | 1,082 | 733 | 1,162 | 8 |
| June | 205 | 1,143 | 311 | 553 | 350 | 36 | 99 | 19 | 4 | 3 |
| July | 351 | 2,775 | 839 | 233 | 56 | 5 | 25 | 273 | 29 | 2 |
| August | 2,374 | 2,387 | 1,739 | 761 | 82 | 64 | 90 | 316 | 2 | 5 |
| September | 2,127 | 978 | 557 | 1,239 | 800 | 181 | 6 | 47 | 28 | 9 |
| October | 856 | 357 | 3,617 | 362 | 9 | 35 | 45 | 878 | 127 | 9 |
| November | 4,125 | 1,082 | 2,183 | 1,091 | 229 | 239 | 290 | 311 | 217 | 0 |
| December | 1,239 | 2,690 | 283 | 203 | 6 | 101 | 185 | 9 | 827 | 182 |
|  | $\mathbf{1 9 , 2 2 7}$ | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 9}$ | $\mathbf{7 , 4 0 7}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | - | 207 | - | - | - | - | - |
| ES | 13,511 | 15,867 | 11,628 | 11,569 | 5,275 | 5,705 | 8,886 | 3,548 | 3,880 | 6,114 |
| FK | 4,033 | 3,808 | 3,433 | 4,755 | 1,889 | 959 | 2,378 | 467 | 555 | 1,291 |
| JP | 917 | 2,457 | 85 | - | - | - | - | - | - | - |
| KR | 667 | 594 | 712 | 481 | 20 | 147 | 211 | 19 | 3 | 2 |
| UK | 98 | 253 | 10 | 45 | 1 | 35 | 87 | 18 | 0 | 0 |
|  | $\mathbf{1 9 , 2 2 7}$ | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 9}$ | $\mathbf{7 , 4 0 7}$ |

## Macruronus magellanicus-Hoki

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 2,795 | 2,714 | 2,568 | 1,478 | 497 | 1,051 | 1,155 | 323 | 307 | 110 |
| $\mathbf{8 0 0 - 9 9 9}$ | 2,933 | 3,119 | 3,532 | 3,238 | 1,634 | 1,845 | 3,569 | 615 | 768 | 1,999 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 8,034 | 8,562 | 6,957 | 8,740 | 3,477 | 3,055 | 2,992 | 2,371 | 2,163 | 4,009 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 4,310 | 5,894 | 2,529 | 3,177 | 1,566 | 858 | 3,813 | 644 | 1,201 | 934 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 237 | 221 | 100 | 214 | 8 | 38 | 31 | 100 | 0 | 354 |
| $\mathbf{> 2 , 9 9 9}$ | 917 | 2,469 | 181 | 2 | 210 | - | 1 | - | - | - |
|  | $\mathbf{1 9 , 2 2 7}$ | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 9}$ | $\mathbf{7 , 4 0 7}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 155 | 217 | - | - | - | 10 | 167 | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 1,063 | 843 | 855 | 507 | 77 | 156 | 234 | 0 | 56 | - |
| $\mathbf{5 0 - 5 4}$ | 2,132 | 2,216 | 2,911 | 1,673 | 763 | 1,514 | 1,409 | 336 | 302 | 111 |
| $\mathbf{5 5 - 5 9}$ | 3,152 | 3,834 | 3,603 | 3,807 | 811 | 1,781 | 1,413 | 718 | 651 | 1,410 |
| $\mathbf{6 0 - 6 4}$ | 3,537 | 4,506 | 3,308 | 3,680 | 1,479 | 1,209 | 1,694 | 1,487 | 1,420 | 1,693 |
| $\mathbf{6 5 - 6 9}$ | 4,264 | 4,735 | 2,375 | 3,545 | 2,973 | 740 | 3,792 | 1,144 | 1,235 | 3,238 |
| $\mathbf{7 0 - 7 9}$ | 3,607 | 3,472 | 2,550 | 3,571 | 999 | 1,386 | 2,805 | 267 | 719 | 948 |
| $\mathbf{8 0 - 8 9}$ | 285 | 597 | 61 | 9 | 79 | 40 | 45 | 79 | 56 | 0 |
| $>\mathbf{8 9}$ | 1,031 | 2,559 | 204 | 57 | 211 | 8 | 1 | 22 | 0 | 7 |
|  | $\mathbf{1 9 , 2 2 7}$ | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 9}$ | $\mathbf{7 , 4 0 7}$ |

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

| BHP | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{1 , 0 0 0}$ | - | - | - | - | - | - | - | - | 46 | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | 155 | 54 | - | - | - | 10 | 167 | - | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 442 | 310 | 327 | 276 | 67 | 119 | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 2,884 | 3,109 | 3,719 | 2,815 | 968 | 2,006 | 2,141 | 840 | 966 | 1,117 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 2,444 | 1,910 | 608 | 837 | 402 | 396 | 586 | 14 | - | - |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 6,728 | 7,748 | 5,375 | 7,129 | 3,255 | 1,783 | 5,336 | 2,846 | 2,888 | 4,420 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 4,260 | 5,182 | 3,928 | 4,457 | 1,958 | 1,607 | 1,859 | 182 | 361 | 1,339 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 551 | 875 | 1,592 | 940 | 344 | 723 | 464 | 31 | 45 | 2 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 757 | 1,254 | 206 | 361 | 190 | 199 | 380 | 130 | 131 | 521 |
| $\mathbf{> 3 , 9 9 9}$ | 1,005 | 2,538 | 112 | 34 | 208 | 2 | 629 | 9 | 2 | 8 |
|  | $\mathbf{1 9 , 2 2 7}$ | $\mathbf{2 2 , 9 7 9}$ | $\mathbf{1 5 , 8 6 7}$ | $\mathbf{1 6 , 8 4 9}$ | $\mathbf{7 , 3 9 2}$ | $\mathbf{6 , 8 4 5}$ | $\mathbf{1 1 , 5 6 2}$ | $\mathbf{4 , 0 5 3}$ | $\mathbf{4 , 4 3 9}$ | $\mathbf{7 , 4 0 7}$ |

Macruronus magellanicus
First Season 2019 (01 Jan to 30 Jun)


$A A$ AG AC AD AE AF AG AH AJ AK AL AM AN AP AQ AR AS AT AU AN AN AX AF M2 $47^{\circ} S$
$64^{\circ} \mathrm{W} 30^{\prime} 63^{\circ} \mathrm{W} 30^{\prime} 62^{\circ} \mathrm{W} 30^{\prime} 61^{\circ} \mathrm{W} 30^{\prime} 60^{\circ} \mathrm{W} 30^{\prime} 59^{\circ} \mathrm{W} 30^{\circ} 58^{\circ} \mathrm{W} 30^{\prime} 57^{\circ} \mathrm{W} 30^{\prime} 56^{\circ} \mathrm{W} 30^{\prime} 55^{\circ} \mathrm{W} 30^{\prime} 54^{\circ} \mathrm{W} 30^{\prime} 53^{\circ} \mathrm{W} 30^{\prime} 52^{\circ} \mathrm{W}$

## Macruronus magellanicus-Hoki

Length- frequency distribution and length-weight relationship in 2019



## Salilota australis - Red cod

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

| VESSEL TYPE | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | - | 0 | - | 0 | - | - | - | - | - | - |
| TR | 3,129 | 4,210 | 4,629 | 5,164 | 3,467 | 3,340 | 3,143 | 1,379 | 1,654 | 1,767 |
|  | $\mathbf{3 , 1 2 9}$ | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 4}$ | $\mathbf{1 , 7 6 7}$ |

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

| MONTH | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 29 | 100 | 62 | 215 | - | 0 | 143 | 33 | - | 310 |
| February | 193 | 236 | 351 | 480 | 114 | 63 | 479 | 24 | 47 | 367 |
| March | 387 | 157 | 341 | 311 | 221 | 557 | 181 | 101 | 64 | 220 |
| April | 649 | 438 | 340 | 325 | 477 | 685 | 270 | 245 | 154 | 169 |
| May | 215 | 749 | 370 | 514 | 768 | 310 | 527 | 138 | 451 | 168 |
| June | 69 | 213 | 125 | 77 | 398 | 131 | 198 | 38 | 102 | 116 |
| July | 75 | 309 | 150 | 162 | 135 | 174 | 138 | 134 | 200 | 131 |
| August | 361 | 605 | 656 | 1,199 | 376 | 161 | 369 | 223 | 134 | 167 |
| September | 340 | 474 | 580 | 1,299 | 195 | 329 | 135 | 248 | 108 | 72 |
| October | 284 | 273 | 615 | 283 | 532 | 631 | 562 | 144 | 163 | 26 |
| November | 321 | 436 | 626 | 230 | 189 | 200 | 74 | 40 | 129 | 3 |
| December | 207 | 221 | 411 | 68 | 63 | 99 | 66 | 12 | 103 | 19 |
|  | $\mathbf{3 , 1 2 9}$ | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 4}$ | $\mathbf{1 , 7 6 7}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 2,267 | 2,851 | 3,441 | 3,592 | 2,530 | 2,776 | 2,237 | 1,027 | 1,072 | 1,399 |
| FK | 801 | 1,317 | 1,167 | 1,522 | 874 | 505 | 878 | 319 | 565 | 353 |
| JP | 0 | 0 | - | - | - | - | - | - | - | - |
| KR | 19 | 6 | 16 | 33 | 57 | 47 | 18 | 14 | 17 | 1 |
| UK | 41 | 36 | 5 | 17 | 5 | 12 | 10 | 18 | 0 | 15 |
|  | $\mathbf{3 , 1 2 9}$ | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 4}$ | $\mathbf{1 , 7 6 7}$ |

## Salilota australis - Red cod

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 327 | 484 | 633 | 467 | 508 | 401 | 480 | 143 | 360 | 171 |
| $\mathbf{8 0 0 - 9 9 9}$ | 403 | 444 | 618 | 610 | 600 | 648 | 783 | 275 | 336 | 372 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 1,323 | 1,889 | 2,004 | 2,584 | 1,399 | 1,387 | 793 | 409 | 516 | 790 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 1,012 | 1,268 | 1,285 | 1,256 | 881 | 869 | 1,053 | 469 | 424 | 398 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 64 | 124 | 89 | 248 | 77 | 34 | 34 | 83 | 17 | 36 |
| $\mathbf{> 2 , 9 9 9}$ | 0 | 0 | - | - | 2 | - | 0 | - | - | - |
|  | $\mathbf{3 , 1 2 9}$ | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 4}$ | $\mathbf{1 , 7 6 7}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 17 | 78 | - | 9 | 3 | 8 | 56 | - | 2 | - |
| $\mathbf{4 5 - 4 9}$ | 131 | 173 | 214 | 123 | 98 | 111 | 99 | 12 | 114 | - |
| $\mathbf{5 0 - 5 4}$ | 250 | 325 | 703 | 552 | 607 | 463 | 566 | 216 | 373 | 238 |
| $\mathbf{5 5 - 5 9}$ | 492 | 825 | 843 | 685 | 365 | 464 | 310 | 191 | 155 | 315 |
| $\mathbf{6 0 - 6 4}$ | 525 | 731 | 868 | 1,333 | 720 | 493 | 351 | 122 | 249 | 250 |
| $\mathbf{6 5 - 6 9}$ | 1,327 | 1,508 | 1,435 | 1,418 | 1,005 | 1,086 | 939 | 421 | 398 | 619 |
| $\mathbf{7 0 - 7 9}$ | 330 | 452 | 483 | 903 | 630 | 695 | 772 | 369 | 305 | 336 |
| $\mathbf{8 0 - 8 9}$ | 33 | 59 | 12 | 18 | 16 | 12 | 48 | 28 | 54 | 4 |
| $>\mathbf{8 9}$ | 24 | 59 | 70 | 123 | 25 | 8 | 2 | 19 | 5 | 6 |
|  | $\mathbf{3 , 1 2 9}$ | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 4}$ | $\mathbf{1 , 7 6 7}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{1 , 0 0 0}$ | - | - | - | 5 | - | - | - | - | 72 | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | 17 | 22 | - | 9 | 3 | 8 | 56 | - | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 58 | 89 | 100 | 77 | 54 | 43 | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 336 | 584 | 825 | 634 | 651 | 778 | 739 | 313 | 402 | 348 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 372 | 262 | 112 | 180 | 145 | 110 | 142 | 2 | - | - |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 1,552 | 2,140 | 2,494 | 2,167 | 1,362 | 1,354 | 1,230 | 546 | 775 | 908 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 626 | 778 | 734 | 1,449 | 912 | 773 | 643 | 287 | 194 | 321 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 14 | 47 | 235 | 200 | 208 | 151 | 104 | 87 | 101 | 67 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 135 | 270 | 118 | 327 | 82 | 114 | 142 | 109 | 103 | 87 |
| $\mathbf{> 3 , 9 9 9}$ | 18 | 18 | 10 | 115 | 50 | 7 | 86 | 35 | 8 | 36 |
|  | $\mathbf{3 , 1 2 9}$ | $\mathbf{4 , 2 1 0}$ | $\mathbf{4 , 6 2 9}$ | $\mathbf{5 , 1 6 4}$ | $\mathbf{3 , 4 6 7}$ | $\mathbf{3 , 3 4 0}$ | $\mathbf{3 , 1 4 3}$ | $\mathbf{1 , 3 7 9}$ | $\mathbf{1 , 6 5 4}$ | $\mathbf{1 , 7 6 7}$ |

Salilota australis
First Season 2019 (01 Jan to 30 Jun)



## Salilota australis - Red cod

Length- frequency distribution and length-weight relationship in 2019



## Merluccius spp - Hakes

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

| VESSEL TYPE | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | - | - | - | 0 | - | - | - | - | - | - |
| TR | 13,606 | 9,936 | 10,486 | 12,317 | 14,865 | 21,068 | 23,894 | 15,759 | 27,091 | 53,416 |
|  | $\mathbf{1 3 , 6 0 6}$ | $\mathbf{9 , 9 3 6}$ | $\mathbf{1 0 , 4 8 6}$ | $\mathbf{1 2 , 3 1 7}$ | $\mathbf{1 4 , 8 6 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 1}$ | $\mathbf{5 3 , 4 1 6}$ |

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

| MONTH | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 3 | 12 | 4 | 56 | - | 1 | 62 | 10 | - | 42 |
| February | 106 | 199 | 65 | 166 | 30 | 29 | 231 | 11 | 12 | 164 |
| March | 873 | 260 | 517 | 232 | 224 | 382 | 155 | 237 | 144 | 1,708 |
| April | 2,492 | 2,005 | 1,388 | 1,169 | 680 | 1,266 | 821 | 2,236 | 1,130 | 6,606 |
| May | 2,584 | 1,979 | 1,895 | 1,615 | 3,168 | 3,277 | 5,847 | 2,589 | 5,183 | 11,418 |
| June | 773 | 726 | 1,125 | 1,129 | 2,506 | 1,912 | 3,500 | 1,696 | 4,130 | 10,181 |
| July | 1,340 | 858 | 942 | 1,225 | 2,065 | 3,508 | 3,461 | 2,875 | 5,239 | 9,925 |
| August | 2,245 | 1,145 | 2,473 | 2,468 | 2,706 | 3,619 | 3,453 | 1,821 | 3,830 | 7,215 |
| September | 2,145 | 1,598 | 1,260 | 2,638 | 2,431 | 5,153 | 3,273 | 3,414 | 4,124 | 5,403 |
| October | 853 | 930 | 644 | 1,480 | 862 | 1,823 | 3,054 | 840 | 3,177 | 743 |
| November | 168 | 201 | 151 | 135 | 189 | 62 | 27 | 23 | 107 | 9 |
| December | 23 | 22 | 21 | 4 | 3 | 36 | 10 | 5 | 15 | 3 |
|  | $\mathbf{1 3 , 6 0 6}$ | $\mathbf{9 , 9 3 6}$ | $\mathbf{1 0 , 4 8 6}$ | $\mathbf{1 2 , 3 1 7}$ | $\mathbf{1 4 , 8 6 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 1}$ | $\mathbf{5 3 , 4 1 6}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{C L}$ | - | - | - | - | 0 | - | - | - | - | - |
| ES | 8,459 | 6,019 | 6,950 | 7,253 | 10,454 | 15,429 | 18,858 | 11,019 | 19,431 | 45,087 |
| FK | 4,565 | 3,506 | 3,182 | 4,884 | 4,196 | 5,072 | 4,739 | 4,443 | 7,338 | 7,981 |
| JP | 0 | 1 | - | - | - | - | - | - | - | - |
| KR | 181 | 221 | 283 | 130 | 159 | 351 | 191 | 199 | 210 | 25 |
| UK | 401 | 190 | 71 | 50 | 56 | 215 | 106 | 98 | 112 | 322 |
|  | $\mathbf{1 3 , 6 0 6}$ | $\mathbf{9 , 9 3 6}$ | $\mathbf{1 0 , 4 8 6}$ | $\mathbf{1 2 , 3 1 7}$ | $\mathbf{1 4 , 8 6 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 1}$ | $\mathbf{5 3 , 4 1 6}$ |

## Merluccius spp - Hakes

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 1,439 | 1,138 | 1,178 | 1,251 | 1,815 | 2,201 | 2,171 | 2,336 | 3,085 | 6,069 |
| $\mathbf{8 0 0 - 9 9 9}$ | 1,167 | 872 | 762 | 1,715 | 2,055 | 3,843 | 4,452 | 2,699 | 8,379 | 12,741 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 7,908 | 5,907 | 6,939 | 7,149 | 7,916 | 10,035 | 12,016 | 5,998 | 10,614 | 20,446 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 2,839 | 1,904 | 1,483 | 2,125 | 3,030 | 4,115 | 5,034 | 4,516 | 4,921 | 14,067 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 253 | 90 | 42 | 70 | 41 | 874 | 213 | 210 | 92 | 92 |
| $\mathbf{> 2 , 9 9 9}$ | 0 | 25 | 81 | 7 | 7 | - | 9 | - | - | - |
|  | $\mathbf{1 3 , 6 0 6}$ | $\mathbf{9 , 9 3 6}$ | $\mathbf{1 0 , 4 8 6}$ | $\mathbf{1 2 , 3 1 7}$ | $\mathbf{1 4 , 8 6 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 1}$ | $\mathbf{5 3 , 4 1 6}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 5 | 165 | - | 6 | 15 | 42 | 51 | - | 109 | - |
| $\mathbf{4 5 - 4 9}$ | 950 | 641 | 496 | 852 | 564 | 1,358 | 990 | 767 | 1,961 | - |
| $\mathbf{5 0 - 5 4}$ | 766 | 674 | 1,041 | 1,149 | 1,897 | 2,336 | 3,119 | 2,868 | 4,753 | 8,897 |
| $\mathbf{5 5 - 5 9}$ | 2,497 | 1,883 | 2,372 | 2,867 | 1,948 | 2,161 | 2,910 | 2,347 | 4,120 | 10,797 |
| $\mathbf{6 0 - 6 4}$ | 2,688 | 2,100 | 2,747 | 2,813 | 4,415 | 4,671 | 6,149 | 1,640 | 3,842 | 8,285 |
| $\mathbf{6 5 - 6 9}$ | 3,717 | 2,698 | 2,100 | 2,160 | 2,892 | 5,786 | 6,329 | 3,747 | 7,268 | 15,700 |
| $\mathbf{7 0 - 7 9}$ | 2,561 | 1,606 | 1,605 | 2,304 | 3,127 | 4,498 | 4,063 | 3,489 | 4,798 | 9,311 |
| $\mathbf{8 0 - 8 9}$ | 420 | 133 | 3 | 155 | - | 212 | 265 | 720 | 193 | 389 |
| $>\mathbf{8 9}$ | 3 | 36 | 122 | 10 | 7 | 4 | 18 | 182 | 47 | 37 |
|  | $\mathbf{1 3 , 6 0 6}$ | $\mathbf{9 , 9 3 6}$ | $\mathbf{1 0 , 4 8 6}$ | $\mathbf{1 2 , 3 1 7}$ | $\mathbf{1 4 , 8 6 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 1}$ | $\mathbf{5 3 , 4 1 6}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\langle\mathbf{1 , 0 0 0}$ | - | - | - | - | - | - | - | - | 204 | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | 5 | 54 | - | 6 | 15 | 42 | 51 | - | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 326 | 128 | 307 | 405 | 338 | 454 | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 1,275 | 1,240 | 1,361 | 1,541 | 2,476 | 2,897 | 2,772 | 3,379 | 4,834 | 11,548 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 2,264 | 1,408 | 1,095 | 1,411 | 1,537 | 1,795 | 1,948 | 4 | - | - |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 5,772 | 4,374 | 5,544 | 5,923 | 6,833 | 8,694 | 13,130 | 7,818 | 14,544 | 27,615 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 2,338 | 1,702 | 1,544 | 2,315 | 2,986 | 4,636 | 3,843 | 2,633 | 4,632 | 8,749 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 170 | 190 | 412 | 410 | 532 | 893 | 1,098 | 731 | 2,081 | 2,853 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 1,449 | 826 | 184 | 305 | 149 | 1,654 | 955 | 1,178 | 730 | 2,601 |
| $\mathbf{> 3 , 9 9 9}$ | 6 | 14 | 39 | 1 | 0 | 2 | 99 | 18 | 66 | 49 |
|  | $\mathbf{1 3 , 6 0 6}$ | $\mathbf{9 , 9 3 6}$ | $\mathbf{1 0 , 4 8 6}$ | $\mathbf{1 2 , 3 1 7}$ | $\mathbf{1 4 , 8 6 5}$ | $\mathbf{2 1 , 0 6 8}$ | $\mathbf{2 3 , 8 9 4}$ | $\mathbf{1 5 , 7 5 9}$ | $\mathbf{2 7 , 0 9 1}$ | $\mathbf{5 3 , 4 1 6}$ |




## Merluccius spp - Hakes

Length- frequency distribution and length-weight relationship in M.hubbsi in 2019



## Genypterus blacodes - Kingclip

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

| VESSEL TYPE | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR | 3,639 | 3,867 | 3,510 | 3,977 | 2,881 | 2,983 | 1,612 | 1,632 | 1,446 | 1,712 |
|  | $\mathbf{3 , 6 3 9}$ | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 6}$ | $\mathbf{1 , 7 1 2}$ |

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

| MONTH | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 15 | 163 | 12 | 108 | - | 1 | 62 | 12 | - | 98 |
| February | 110 | 296 | 138 | 188 | 65 | 50 | 175 | 7 | 22 | 109 |
| March | 300 | 214 | 277 | 153 | 141 | 200 | 52 | 67 | 41 | 148 |
| April | 580 | 429 | 338 | 281 | 189 | 250 | 134 | 110 | 110 | 247 |
| May | 416 | 728 | 389 | 358 | 372 | 314 | 205 | 107 | 276 | 281 |
| June | 202 | 141 | 134 | 114 | 324 | 288 | 78 | 42 | 115 | 268 |
| July | 89 | 226 | 170 | 140 | 296 | 159 | 154 | 168 | 222 | 281 |
| August | 366 | 421 | 570 | 836 | 387 | 226 | 234 | 251 | 156 | 167 |
| September | 446 | 462 | 390 | 843 | 357 | 491 | 142 | 410 | 134 | 68 |
| October | 377 | 309 | 420 | 653 | 491 | 503 | 337 | 310 | 209 | 39 |
| November | 445 | 310 | 432 | 234 | 203 | 265 | 23 | 142 | 106 | 1 |
| December | 294 | 167 | 240 | 67 | 57 | 237 | 15 | 8 | 55 | 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. 3 Total catch (tonnes) by fishing fleet and year

| FISHING FLEET | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ES | 2,835 | 2,933 | 2,583 | 3,053 | 2,219 | 2,370 | 1,280 | 1,386 | 1,072 | 1,460 |
| FK | 677 | 851 | 858 | 843 | 548 | 502 | 312 | 225 | 353 | 240 |
| JP | 0 | 0 | - | - | - | - | - | - | - | - |
| KR | 101 | 47 | 62 | 72 | 107 | 90 | 19 | 10 | 18 | 9 |
| UK | 26 | 35 | 7 | 9 | 7 | 22 | 1 | 11 | 4 | 2 |
|  | $\mathbf{3 , 6 3 9}$ | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 6}$ | $\mathbf{1 , 7 1 2}$ |

## Genypterus blacodes - Kingclip

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 460 | 481 | 518 | 410 | 291 | 338 | 141 | 146 | 186 | 163 |
| $\mathbf{8 0 0 - 9 9 9}$ | 467 | 404 | 456 | 904 | 710 | 612 | 434 | 204 | 347 | 387 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 1,664 | 2,000 | 1,905 | 1,889 | 1,182 | 1,350 | 543 | 710 | 541 | 711 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 1,034 | 972 | 625 | 760 | 683 | 648 | 465 | 552 | 370 | 441 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 15 | 11 | 5 | 14 | 13 | 36 | 30 | 20 | 2 | 9 |
| $\mathbf{> 2 , 9 9 9}$ | 0 | 0 | 1 | 0 | 2 | - | 0 | - | - | - |
|  | $\mathbf{3 , 6 3 9}$ | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 6}$ | $\mathbf{1 , 7 1 2}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 12 | 101 | - | 11 | 13 | 24 | 41 | - | 6 | - |
| $\mathbf{4 5 - 4 9}$ | 204 | 173 | 177 | 182 | 63 | 105 | 31 | 23 | 111 | - |
| $\mathbf{5 0 - 5 4}$ | 332 | 302 | 487 | 534 | 460 | 419 | 242 | 202 | 229 | 258 |
| $\mathbf{5 5 - 5 9}$ | 539 | 819 | 863 | 884 | 400 | 365 | 222 | 193 | 235 | 384 |
| $\mathbf{6 0 - 6 4}$ | 824 | 820 | 816 | 950 | 464 | 639 | 251 | 87 | 210 | 244 |
| $\mathbf{6 5 - 6 9}$ | 1,308 | 1,151 | 786 | 814 | 992 | 956 | 437 | 642 | 379 | 490 |
| $\mathbf{7 0 - 7 9}$ | 398 | 474 | 375 | 579 | 481 | 470 | 361 | 448 | 249 | 316 |
| $\mathbf{8 0 - 8 9}$ | 22 | 26 | 2 | 19 | 2 | 5 | 27 | 25 | 24 | 15 |
| $>\mathbf{8 9}$ | 1 | 1 | 4 | 3 | 4 | - | 0 | 12 | 1 | 4 |
|  | $\mathbf{3 , 6 3 9}$ | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 6}$ | $\mathbf{1 , 7 1 2}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{1 , 0 0 0}$ | - | - | - | 18 | - | - | - | - | 43 | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | 12 | 29 | - | 11 | 13 | 24 | 41 | - | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 113 | 77 | 107 | 86 | 45 | 34 | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 376 | 541 | 630 | 702 | 483 | 517 | 262 | 265 | 257 | 347 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 520 | 331 | 144 | 179 | 121 | 133 | 97 | 1 | - | - |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 1,781 | 1,877 | 1,687 | 1,608 | 1,222 | 1,323 | 680 | 821 | 785 | 865 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 697 | 818 | 741 | 1,017 | 649 | 657 | 317 | 411 | 204 | 333 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 73 | 73 | 181 | 295 | 312 | 190 | 119 | 66 | 104 | 104 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 67 | 120 | 18 | 61 | 34 | 106 | 59 | 61 | 52 | 57 |
| $\mathbf{> 3 , 9 9 9}$ | 0 | 1 | 1 | 0 | 2 | 0 | 37 | 6 | 1 | 6 |
|  | $\mathbf{3 , 6 3 9}$ | $\mathbf{3 , 8 6 7}$ | $\mathbf{3 , 5 1 0}$ | $\mathbf{3 , 9 7 7}$ | $\mathbf{2 , 8 8 1}$ | $\mathbf{2 , 9 8 3}$ | $\mathbf{1 , 6 1 2}$ | $\mathbf{1 , 6 3 2}$ | $\mathbf{1 , 4 4 6}$ | $\mathbf{1 , 7 1 2}$ |



## Genypterus blacodes - Kingclip

Length- frequency distribution and length-weight relationship in 2019



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

| VESSEL TYPE | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | 944 | 1,221 | 1,085 | 1,301 | 1,252 | 1,123 | 1,023 | 1,030 | 982 | 1,049 |
| PO | 0 | - | - | - | - | - | - | - | - | - |
| TR | 460 | 339 | 226 | 120 | 45 | 103 | 476 | 489 | 277 | 268 |
|  | $\mathbf{1 , 4 0 4}$ | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ | $\mathbf{1 , 3 1 7}$ |

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

| MONTH | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 129 | 131 | 136 | 140 | 125 | 161 | 172 | 24 | 116 | 141 |
| February | 141 | 138 | 159 | 91 | 109 | 111 | 146 | 9 | 40 | 130 |
| March | 207 | 84 | 122 | 133 | 73 | 142 | 218 | 23 | 163 | 142 |
| April | 169 | 182 | 159 | 193 | 121 | 118 | 157 | 37 | 161 | 198 |
| May | 167 | 161 | 131 | 153 | 36 | 71 | 156 | 174 | 56 | 44 |
| June | 62 | 82 | 91 | 22 | 72 | 49 | 105 | 72 | 7 | 6 |
| July | 136 | 180 | 133 | 128 | 130 | 134 | 160 | 168 | 30 | 8 |
| August | 100 | 216 | 162 | 196 | 37 | 130 | 217 | 39 | 27 | 50 |
| September | 106 | 165 | 101 | 207 | 234 | 34 | 30 | 115 | 148 | 144 |
| October | 23 | 55 | 19 | 2 | 115 | 19 | 46 | 241 | 200 | 196 |
| November | 52 | 30 | 23 | 8 | 107 | 18 | 36 | 384 | 157 | 103 |
| December | 113 | 136 | 76 | 146 | 139 | 239 | 55 | 233 | 154 | 153 |
|  | $\mathbf{1 , 4 0 4}$ | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ | $\mathbf{1 , 3 1 7}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | - | 353 | - | - | 249 | - | - |
| ES | 366 | 260 | 155 | 81 | 34 | 87 | 367 | 396 | 207 | 205 |
| FK | 1,030 | 1,287 | 1,150 | 1,339 | 911 | 1,134 | 1,122 | 833 | 1,045 | 1,111 |
| KR | 6 | 7 | 7 | 1 | 0 | 5 | 10 | 40 | 6 | 0 |
| RU | 0 | - | - | - | - | - | - | - | - | - |
| UK | 2 | 6 | 0 | - | - | 0 | - | 1 | 1 | 0 |
|  | $\mathbf{1 , 4 0 4}$ | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ | $\mathbf{1 , 3 1 7}$ |

## Dissostichus eleginoides - Toothfish

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 45 | 31 | 44 | 10 | 7 | 5 | 35 | 19 | 34 | 20 |
| $\mathbf{8 0 0 - 9 9 9}$ | 983 | 1,263 | 1,118 | 1,197 | 906 | 1,141 | 1,198 | 98 | 61 | 58 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 234 | 84 | 66 | 166 | 370 | 51 | 77 | 482 | 93 | 122 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 135 | 176 | 82 | 44 | 15 | 29 | 173 | 909 | 1,067 | 1,109 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 6 | 6 | 2 | 3 | - | 1 | 16 | 10 | 4 | 8 |
| $\mathbf{> 2 , 9 9 9}$ | - | - | - | - | - | - | - | - | - | - |
|  | $\mathbf{1 , 4 0 4}$ | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ | $\mathbf{1 , 3 1 7}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 2 | 7 | - | - | - | 5 | 21 | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 13 | 9 | 8 | 2 | 1 | 0 | 4 | 1 | 13 | - |
| $\mathbf{5 0 - 5 4}$ | 976 | 1,244 | 1,132 | 1,195 | 907 | 1,130 | 1,077 | 28 | 37 | 25 |
| $\mathbf{5 5 - 5 9}$ | 50 | 40 | 37 | 136 | 4 | 10 | 50 | 857 | 1,009 | 1,076 |
| $\mathbf{6 0 - 6 4}$ | 40 | 27 | 14 | 19 | 362 | 25 | 9 | 362 | 54 | 43 |
| $\mathbf{6 5 - 6 9}$ | 205 | 128 | 75 | 32 | 16 | 28 | 221 | 159 | 90 | 116 |
| $\mathbf{7 0 - 7 9}$ | 114 | 101 | 44 | 36 | 8 | 28 | 102 | 104 | 48 | 53 |
| $\mathbf{8 0 - 8 9}$ | 3 | 5 | - | - | - | 1 | 11 | 4 | 7 | 1 |
| $>\mathbf{8 9}$ | 0 | - | 2 | 0 | - | - | 4 | 3 | 1 | 1 |
|  | $\mathbf{1 , 4 0 4}$ | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ | $\mathbf{1 , 3 1 7}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{1 , 0 0 0}$ | 0 | - | - | - | - | - | - | - | 8 | - |
| $\mathbf{1 , 0 0 0} \mathbf{- 1 , 1 9 9}$ | 2 | 5 | - | - | - | 5 | 21 | - | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 9 | 4 | 0 | 117 | 1 | 0 | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 1,001 | 1,266 | 1,142 | 1,204 | 1,262 | 1,131 | 1,099 | 149 | 44 | 44 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 30 | 15 | 6 | 9 | 6 | 5 | 0 | 169 | - | - |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 220 | 139 | 96 | 42 | 18 | 34 | 232 | 261 | 164 | 156 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 115 | 98 | 52 | 40 | 8 | 44 | 84 | 91 | 29 | 45 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 6 | 8 | 11 | 1 | 2 | 6 | 25 | 828 | 999 | 1,054 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 21 | 24 | 3 | 7 | 0 | 3 | 28 | 13 | 14 | 16 |
| $>\mathbf{3 , 9 9 9}$ | - | 0 | 1 | - | - | 0 | 9 | 8 | 1 | 2 |
|  | $\mathbf{1 , 4 0 4}$ | $\mathbf{1 , 5 6 0}$ | $\mathbf{1 , 3 1 1}$ | $\mathbf{1 , 4 2 1}$ | $\mathbf{1 , 2 9 7}$ | $\mathbf{1 , 2 2 7}$ | $\mathbf{1 , 4 9 9}$ | $\mathbf{1 , 5 1 9}$ | $\mathbf{1 , 2 5 9}$ | $\mathbf{1 , 3 1 7}$ |

## Dissostichus eleginoides - Toothfish

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{8 0 0 - 9 9 9}$ | 944 | 1,221 | 1,085 | 1,184 | 900 | 1,123 | 1,023 | - | - | - |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | - | - | - | 117 | 353 | - | - | 249 | - | - |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | - | - | - | - | - | - | - | 781 | 982 | 1,049 |
|  | $\mathbf{9 4 4}$ | $\mathbf{1 , 2 2 1}$ | $\mathbf{1 , 0 8 5}$ | $\mathbf{1 , 3 0 1}$ | $\mathbf{1 , 2 5 2}$ | $\mathbf{1 , 1 2 3}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{1 , 0 3 0}$ | $\mathbf{9 8 2}$ | $\mathbf{1 , 0 4 9}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{5 0 - 5 4}$ | 944 | 1,221 | 1,085 | 1,184 | 900 | 1,123 | 1,023 | - | - | - |
| $\mathbf{5 5 - 5 9}$ | - | - | - | 117 | - | - | - | 781 | 982 | 1,049 |
| $\mathbf{6 0 - 6 4}$ | - | - | - | - | 353 | - | - | 249 | - | - |
|  | $\mathbf{9 4 4}$ | $\mathbf{1 , 2 2 1}$ | $\mathbf{1 , 0 8 5}$ | $\mathbf{1 , 3 0 1}$ | $\mathbf{1 , 2 5 2}$ | $\mathbf{1 , 1 2 3}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{1 , 0 3 0}$ | $\mathbf{9 8 2}$ | $\mathbf{1 , 0 4 9}$ |

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

| BHP | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | - | - | - | 117 | - | - | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 944 | 1,221 | 1,085 | 1,184 | 1,252 | 1,123 | 1,023 | 99 | - | - |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | - | - | - | - | - | - | - | 150 | - | - |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | - | - | - | - | - | - | - | 781 | 982 | 1,049 |
|  | $\mathbf{9 4 4}$ | $\mathbf{1 , 2 2 1}$ | $\mathbf{1 , 0 8 5}$ | $\mathbf{1 , 3 0 1}$ | $\mathbf{1 , 2 5 2}$ | $\mathbf{1 , 1 2 3}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{1 , 0 3 0}$ | $\mathbf{9 8 2}$ | $\mathbf{1 , 0 4 9}$ |

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{6 0 0 - 7 9 9}$ | 45 | 31 | 44 | 10 | 7 | 5 | 35 | 19 | 34 | 20 |
| $\mathbf{8 0 0 - 9 9 9}$ | 39 | 41 | 33 | 13 | 6 | 18 | 175 | 98 | 61 | 58 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 234 | 84 | 66 | 49 | 17 | 51 | 77 | 233 | 93 | 122 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 135 | 176 | 82 | 44 | 15 | 29 | 173 | 128 | 85 | 61 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 6 | 6 | 2 | 3 | - | 1 | 16 | 10 | 4 | 8 |
|  | $\mathbf{4 6 0}$ | $\mathbf{3 3 9}$ | $\mathbf{2 2 6}$ | $\mathbf{1 2 0}$ | $\mathbf{4 5}$ | $\mathbf{1 0 3}$ | $\mathbf{4 7 6}$ | $\mathbf{4 8 9}$ | $\mathbf{2 7 7}$ | $\mathbf{2 6 8}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 2 | 7 | - | - | - | 5 | 21 | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 13 | 9 | 8 | 2 | 1 | 0 | 4 | 1 | 13 | - |
| $\mathbf{5 0 - 5 4}$ | 32 | 23 | 47 | 11 | 8 | 6 | 54 | 28 | 37 | 25 |
| $\mathbf{5 5 - 5 9}$ | 50 | 40 | 37 | 19 | 4 | 10 | 50 | 76 | 28 | 28 |
| $\mathbf{6 0 - 6 4}$ | 40 | 27 | 14 | 19 | 9 | 25 | 9 | 113 | 54 | 43 |
| $\mathbf{6 5 - 6 9}$ | 205 | 128 | 75 | 32 | 16 | 28 | 221 | 159 | 90 | 116 |
| $\mathbf{7 0 - 7 9}$ | 114 | 101 | 44 | 36 | 8 | 28 | 102 | 104 | 48 | 53 |
| $\mathbf{8 0 - 8 9}$ | 3 | 5 | - | - | - | 1 | 11 | 4 | 7 | 1 |
| $>\mathbf{8 9}$ | 0 | - | 2 | 0 | - | - | 4 | 3 | 1 | 1 |
|  | $\mathbf{4 6 0}$ | $\mathbf{3 3 9}$ | $\mathbf{2 2 6}$ | $\mathbf{1 2 0}$ | $\mathbf{4 5}$ | $\mathbf{1 0 3}$ | $\mathbf{4 7 6}$ | $\mathbf{4 8 9}$ | $\mathbf{2 7 7}$ | $\mathbf{2 6 8}$ |

## Dissostichus eleginoides - Toothfish

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

| $\mathbf{B H P}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 , 0 0 0}$ | - | - | - | - | - | - | - | - | 8 | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | 2 | 5 | - | - | - | 5 | 21 | - | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 9 | 4 | 0 | - | 1 | 0 | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 57 | 45 | 57 | 20 | 10 | 8 | 76 | 50 | 44 | 44 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 30 | 15 | 6 | 9 | 6 | 5 | 0 | 19 | - | - |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 220 | 139 | 96 | 42 | 18 | 34 | 232 | 261 | 164 | 156 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 115 | 98 | 52 | 40 | 8 | 44 | 84 | 91 | 29 | 45 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 6 | 8 | 11 | 1 | 2 | 6 | 25 | 46 | 17 | 5 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 21 | 24 | 3 | 7 | 0 | 3 | 28 | 13 | 14 | 16 |
| $\mathbf{> 3 , 9 9 9}$ | - | 0 | 1 | - | - | 0 | 9 | 8 | 1 | 2 |
|  | $\mathbf{4 6 0}$ | $\mathbf{3 3 9}$ | $\mathbf{2 2 6}$ | $\mathbf{1 2 0}$ | $\mathbf{4 5}$ | $\mathbf{1 0 3}$ | $\mathbf{4 7 6}$ | $\mathbf{4 8 9}$ | $\mathbf{2 7 7}$ | $\mathbf{2 6 8}$ |

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

| GRT | 2010 | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{6 0 0 - 7 9 9}$ | 0 | - | - | - | - | - | - | - | - | - |
|  | 0 | - | - | - | - | - | - | - | - | - |

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

| LOA | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{5 0 - 5 4}$ | 0 | - | - | - | - | - | - | - | - | - |
|  | 0 | - | - | - | - | - | - | - | - | - |

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

| BHP | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<1,000$ | 0 | - | - | - | - | - | - | - | - |  |
|  | 0 | - | - | - | - | - | - | - | - |  |



## Dissostichus eleginoides - Toothfish

Length- frequency distribution and length-weight relationship in longliner fleet in 2019



## Dissostichus eleginoides - Toothfish

Length- frequency distribution and length-weight relationship in trawler fleet in 2019



## Rajidae - Skates and Rays

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

| VESSEL TYPE | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LO | 23 | 55 | 32 | 78 | 32 | 28 | 29 | 28 | 28 | 26 |
| PO | 0 | - | - | - | - | - | - | - | - | - |
| TR | 5,868 | 6,916 | 6,620 | 5,855 | 5,522 | 6,365 | 5,877 | 3,161 | 1,967 | 1,476 |
|  | $\mathbf{5 , 8 9 1}$ | $\mathbf{6 , 9 7 2}$ | $\mathbf{6 , 6 5 2}$ | $\mathbf{5 , 9 3 3}$ | $\mathbf{5 , 5 5 4}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 5}$ | $\mathbf{1 , 5 0 3}$ |

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

| MONTH | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 43 | 185 | 15 | 278 | 5 | 8 | 592 | 27 | 1 | 107 |
| February | 167 | 360 | 216 | 288 | 125 | 154 | 440 | 8 | 27 | 111 |
| March | 168 | 126 | 511 | 219 | 144 | 119 | 129 | 67 | 79 | 124 |
| April | 332 | 588 | 320 | 413 | 208 | 184 | 225 | 205 | 130 | 137 |
| May | 474 | 879 | 398 | 428 | 394 | 348 | 663 | 285 | 398 | 231 |
| June | 338 | 398 | 404 | 267 | 267 | 693 | 669 | 390 | 133 | 220 |
| July | 323 | 849 | 701 | 394 | 289 | 878 | 522 | 466 | 268 | 223 |
| August | 1,650 | 1,446 | 1,568 | 1,228 | 1,372 | 1,110 | 627 | 436 | 130 | 172 |
| September | 1,146 | 992 | 802 | 867 | 1,479 | 1,359 | 585 | 420 | 130 | 110 |
| October | 326 | 691 | 1,099 | 868 | 560 | 829 | 1,201 | 626 | 211 | 57 |
| November | 418 | 317 | 438 | 369 | 523 | 330 | 120 | 96 | 121 | 3 |
| December | 505 | 141 | 181 | 313 | 188 | 380 | 132 | 163 | 367 | 7 |
|  | $\mathbf{5 , 8 9 1}$ | $\mathbf{6 , 9 7 2}$ | $\mathbf{6 , 6 5 2}$ | $\mathbf{5 , 9 3 3}$ | $\mathbf{5 , 5 5 4}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 5}$ | $\mathbf{1 , 5 0 3}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{C L}$ | - | - | - | - | 3 | - | - | 15 | - | - |
| ES | 2,514 | 2,845 | 2,490 | 2,284 | 2,244 | 3,637 | 3,208 | 1,487 | 1,059 | 1,146 |
| FK | 912 | 1,837 | 1,330 | 1,742 | 1,120 | 837 | 665 | 602 | 458 | 342 |
| KR | 2,394 | 2,219 | 2,797 | 1,884 | 2,174 | 1,894 | 1,995 | 1,077 | 477 | 12 |
| RU | 0 | - | - | - | - | - | - | - | - | - |
| UK | 71 | 71 | 35 | 23 | 13 | 24 | 38 | 8 | 1 | 3 |
|  | $\mathbf{5 , 8 9 1}$ | $\mathbf{6 , 9 7 2}$ | $\mathbf{6 , 6 5 2}$ | $\mathbf{5 , 9 3 3}$ | $\mathbf{5 , 5 5 4}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 5}$ | $\mathbf{1 , 5 0 3}$ |

## Rajidae - Skates and Rays

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 1,133 | 616 | 731 | 449 | 592 | 220 | 167 | 324 | 178 | 150 |
| $\mathbf{8 0 0 - 9 9 9}$ | 1,723 | 1,871 | 2,237 | 1,749 | 1,899 | 2,755 | 2,865 | 1,435 | 915 | 402 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 2,220 | 2,909 | 2,324 | 2,589 | 2,079 | 2,537 | 1,754 | 732 | 595 | 590 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 775 | 1,033 | 823 | 682 | 639 | 743 | 987 | 647 | 303 | 332 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 40 | 119 | 47 | 67 | 58 | 138 | 73 | 51 | 5 | 28 |
| $\mathbf{> 2 , 9 9 9}$ | - | 424 | 489 | 396 | 287 | - | 59 | - | - | - |
|  | $\mathbf{5 , 8 9 1}$ | $\mathbf{6 , 9 7 2}$ | $\mathbf{6 , 6 5 2}$ | $\mathbf{5 , 9 3 3}$ | $\mathbf{5 , 5 5 4}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 5}$ | $\mathbf{1 , 5 0 3}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 18 | 54 | - | 19 | 1 | 46 | 46 | - | 4 | - |
| $\mathbf{4 5 - 4 9}$ | 662 | 252 | 152 | 160 | 40 | 103 | 64 | 63 | 123 | - |
| $\mathbf{5 0 - 5 4}$ | 852 | 771 | 1,040 | 588 | 835 | 727 | 565 | 504 | 177 | 220 |
| $\mathbf{5 5 - 5 9}$ | 1,653 | 1,925 | 2,375 | 1,939 | 1,550 | 1,883 | 2,014 | 1,192 | 682 | 302 |
| $\mathbf{6 0 - 6 4}$ | 823 | 868 | 817 | 961 | 1,056 | 1,044 | 814 | 188 | 153 | 254 |
| $\mathbf{6 5 - 6 9}$ | 1,044 | 1,460 | 918 | 1,059 | 955 | 1,467 | 1,425 | 616 | 578 | 461 |
| $\mathbf{7 0 - 7 9}$ | 775 | 1,165 | 829 | 769 | 806 | 1,072 | 874 | 530 | 272 | 257 |
| $\mathbf{8 0 - 8 9}$ | 63 | 51 | 27 | 42 | 20 | 45 | 43 | 77 | 5 | 9 |
| $>\mathbf{8 9}$ | 0 | 426 | 495 | 396 | 291 | 4 | 63 | 20 | 0 | 0 |
|  | $\mathbf{5 , 8 9 1}$ | $\mathbf{6 , 9 7 2}$ | $\mathbf{6 , 6 5 2}$ | $\mathbf{5 , 9 3 3}$ | $\mathbf{5 , 5 5 4}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 5}$ | $\mathbf{1 , 5 0 3}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{1 , 0 0 0}$ | 0 | - | - | 24 | - | - | - | - | 50 | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | 18 | 35 | - | 19 | 1 | 46 | 46 | - | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 40 | 42 | 49 | 62 | 20 | 19 | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 235 | 414 | 488 | 432 | 341 | 493 | 413 | 581 | 254 | 300 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 569 | 414 | 486 | 503 | 373 | 615 | 435 | 27 | - | - |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 1,450 | 1,824 | 1,695 | 1,571 | 1,152 | 1,665 | 1,899 | 926 | 887 | 785 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 1,309 | 1,895 | 1,272 | 1,340 | 1,713 | 1,319 | 783 | 364 | 196 | 188 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 2,062 | 1,556 | 2,039 | 1,412 | 1,558 | 1,925 | 2,000 | 1,126 | 555 | 108 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 206 | 775 | 611 | 562 | 385 | 295 | 263 | 146 | 52 | 120 |
| $>\mathbf{3 , 9 9 9}$ | 0 | 16 | 13 | 8 | 10 | 14 | 67 | 19 | 2 | 2 |
|  | $\mathbf{5 , 8 9 1}$ | $\mathbf{6 , 9 7 2}$ | $\mathbf{6 , 6 5 2}$ | $\mathbf{5 , 9 3 3}$ | $\mathbf{5 , 5 5 4}$ | $\mathbf{6 , 3 9 3}$ | $\mathbf{5 , 9 0 6}$ | $\mathbf{3 , 1 8 9}$ | $\mathbf{1 , 9 9 5}$ | $\mathbf{1 , 5 0 3}$ |




## Patagonotothen ramsayi-Rock Cod

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

| VESSEL TYPE | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PO | 0 | - | - | - | - | - | - | - | - | - |
| TR | 76,451 | 55,705 | 63,509 | 32,436 | 56,709 | 29,086 | 7,039 | 2,520 | 2,213 | 950 |
|  | $\mathbf{7 6 , 4 5 1}$ | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 0 9}$ | $\mathbf{3 2 , 4 3 6}$ | $\mathbf{5 6 , 7 0 9}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 0}$ | $\mathbf{2 , 2 1 3}$ | $\mathbf{9 5 0}$ |

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

| MONTH | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 892 | 3,521 | 112 | 743 | - | 32 | 933 | 40 | - | 97 |
| February | 5,674 | 5,993 | 3,086 | 3,197 | 560 | 1,780 | 1,024 | 141 | 154 | 240 |
| March | 10,163 | 2,502 | 9,016 | 2,847 | 1,251 | 1,527 | 750 | 415 | 472 | 304 |
| April | 13,402 | 6,205 | 10,051 | 3,837 | 1,170 | 4,442 | 1,167 | 434 | 622 | 139 |
| May | 11,580 | 11,150 | 14,240 | 2,751 | 9,128 | 9,544 | 536 | 85 | 173 | 49 |
| June | 5,281 | 4,578 | 5,500 | 922 | 5,940 | 3,806 | 131 | 19 | 10 | 20 |
| July | 4,449 | 2,571 | 3,680 | 675 | 8,922 | 390 | 226 | 109 | 36 | 17 |
| August | 4,027 | 3,697 | 4,945 | 2,935 | 7,350 | 756 | 923 | 564 | 234 | 54 |
| September | 6,007 | 4,036 | 3,288 | 4,898 | 5,984 | 729 | 992 | 545 | 357 | 24 |
| October | 8,929 | 7,536 | 5,352 | 5,086 | 7,925 | 1,093 | 235 | 127 | 56 | 2 |
| November | 2,064 | 2,889 | 1,877 | 2,111 | 5,997 | 841 | 72 | 31 | 70 | 0 |
| December | 3,984 | 1,028 | 2,361 | 2,435 | 2,482 | 4,146 | 51 | 11 | 29 | 3 |
|  | $\mathbf{7 6 , 4 5 1}$ | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 0 9}$ | $\mathbf{3 2 , 4 3 6}$ | $\mathbf{5 6 , 7 0 9}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 0}$ | $\mathbf{2 , 2 1 3}$ | $\mathbf{9 5 0}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | - | 0 | - | - | - | - | - |
| ES | 52,869 | 39,646 | 52,389 | 25,025 | 45,848 | 23,986 | 3,581 | 669 | 701 | 444 |
| FK | 22,388 | 15,051 | 10,754 | 7,079 | 10,314 | 4,605 | 3,205 | 1,765 | 1,470 | 492 |
| JP | 0 | - | - | - | - | - | - | - | - | - |
| KR | 337 | 215 | 255 | 305 | 511 | 170 | 119 | 5 | 6 | 0 |
| RU | 0 | - | - | - | - | - | - | - | - | - |
| UK | 857 | 794 | 111 | 28 | 36 | 325 | 133 | 82 | 37 | 13 |
|  | $\mathbf{7 6 , 4 5 1}$ | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 0 9}$ | $\mathbf{3 2 , 4 3 6}$ | $\mathbf{5 6 , 7 0 9}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 0}$ | $\mathbf{2 , 2 1 3}$ | $\mathbf{9 5 0}$ |

## Patagonotothen ramsayi-Rock Cod

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 5,439 | 3,263 | 5,020 | 3,247 | 3,504 | 2,052 | 176 | 66 | 158 | 99 |
| $\mathbf{8 0 0 - 9 9 9}$ | 5,987 | 4,965 | 5,017 | 4,520 | 9,916 | 4,384 | 1,141 | 158 | 158 | 50 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 45,252 | 32,535 | 36,898 | 17,963 | 29,935 | 15,803 | 2,369 | 621 | 668 | 403 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 14,991 | 13,063 | 14,962 | 5,769 | 11,617 | 5,342 | 1,770 | 835 | 667 | 173 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 4,782 | 1,864 | 1,586 | 921 | 1,727 | 1,504 | 1,582 | 841 | 562 | 225 |
| $\mathbf{> 2 , 9 9 9}$ | 0 | 14 | 26 | 16 | 10 | - | 0 | - | - | - |
|  | $\mathbf{7 6 , 4 5 1}$ | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 0 9}$ | $\mathbf{3 2 , 4 3 6}$ | $\mathbf{5 6 , 7 0 9}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 0}$ | $\mathbf{2 , 2 1 3}$ | $\mathbf{9 5 0}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 406 | 1,320 | - | 423 | 206 | 341 | 32 | - | - | - |
| $\mathbf{4 5 - 4 9}$ | 4,820 | 3,277 | 4,520 | 3,163 | 2,880 | 1,912 | 285 | 38 | 84 | - |
| $\mathbf{5 0 - 5 4}$ | 2,896 | 1,515 | 3,545 | 1,982 | 3,235 | 1,941 | 198 | 96 | 172 | 99 |
| $\mathbf{5 5 - 5 9}$ | 11,657 | 6,904 | 8,185 | 4,663 | 5,158 | 2,419 | 477 | 75 | 42 | 149 |
| $\mathbf{6 0 - 6 4}$ | 15,138 | 11,502 | 14,447 | 8,516 | 13,239 | 6,932 | 645 | 82 | 147 | 63 |
| $\mathbf{6 5 - 6 9}$ | 25,104 | 18,450 | 18,441 | 7,593 | 16,907 | 7,564 | 2,259 | 608 | 420 | 201 |
| $\mathbf{7 0 - 7 9}$ | 14,813 | 11,588 | 13,258 | 5,612 | 14,055 | 7,161 | 1,991 | 1,203 | 890 | 358 |
| $\mathbf{8 0 - 8 9}$ | 1,170 | 521 | 504 | 248 | 591 | 397 | 527 | 266 | 287 | 27 |
| $>\mathbf{8 9}$ | 447 | 629 | 610 | 235 | 437 | 418 | 624 | 152 | 170 | 53 |
|  | $\mathbf{7 6 , 4 5 1}$ | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 0 9}$ | $\mathbf{3 2 , 4 3 6}$ | $\mathbf{5 6 , 7 0 9}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 0}$ | $\mathbf{2 , 2 1 3}$ | $\mathbf{9 5 0}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{< 1 , 0 0 0}$ | 0 | - | - | 777 | - | - | - | - | 30 | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | 406 | 829 | - | 423 | 206 | 341 | 32 | - | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 1,759 | 1,116 | 2,358 | 1,442 | 1,829 | 804 | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 5,397 | 4,509 | 4,929 | 2,688 | 5,230 | 3,515 | 686 | 292 | 453 | 161 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 5,991 | 2,574 | 2,575 | 1,455 | 1,629 | 1,026 | 203 | 1 | - | - |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 38,209 | 27,177 | 32,219 | 14,636 | 25,472 | 11,338 | 2,707 | 532 | 434 | 312 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 16,654 | 15,044 | 17,384 | 8,179 | 17,527 | 8,716 | 820 | 318 | 240 | 124 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 253 | 419 | 1,735 | 1,237 | 2,054 | 857 | 137 | 35 | 49 | 1 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 6,903 | 3,198 | 1,740 | 1,179 | 2,245 | 2,114 | 1,977 | 994 | 780 | 301 |
| $\mathbf{> 3 , 9 9 9}$ | 880 | 840 | 570 | 419 | 516 | 376 | 476 | 349 | 227 | 52 |
|  | $\mathbf{7 6 , 4 5 1}$ | $\mathbf{5 5 , 7 0 5}$ | $\mathbf{6 3 , 5 0 9}$ | $\mathbf{3 2 , 4 3 6}$ | $\mathbf{5 6 , 7 0 9}$ | $\mathbf{2 9 , 0 8 6}$ | $\mathbf{7 , 0 3 9}$ | $\mathbf{2 , 5 2 0}$ | $\mathbf{2 , 2 1 3}$ | $\mathbf{9 5 0}$ |

Patagonotothen ramsayi
First Season 2019 (01 Jan to 30 Jun)



## Patagonotothen ramsayi-Rock Cod

Length- frequency distribution and length-weight relationship in 2019



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

| VESSEL TYPE | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{J I}$ | - | - | - | - | - | - | - | - | 1 | - |
| LO | 94 | 130 | 104 | 97 | 83 | 107 | 109 | 68 | 73 | 86 |
| PO | 1 | - | - | 6 | 7 | 5 | - | - | 0 | - |
| TR | 600 | 2,264 | 468 | 920 | 281 | 603 | 2,501 | 3,620 | 1,065 | 2,256 |
|  | $\mathbf{6 9 6}$ | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 9}$ | $\mathbf{2 , 3 4 2}$ |

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

| MONTH | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 14 | 28 | 18 | 45 | 12 | 13 | 93 | 166 | 10 | 117 |
| February | 36 | 69 | 24 | 216 | 76 | 30 | 356 | 40 | 134 | 635 |
| March | 72 | 32 | 30 | 179 | 45 | 57 | 158 | 60 | 109 | 565 |
| April | 77 | 66 | 38 | 106 | 34 | 79 | 260 | 119 | 180 | 783 |
| May | 16 | 350 | 26 | 28 | 11 | 17 | 127 | 64 | 128 | 69 |
| June | 7 | 921 | 10 | 21 | 35 | 5 | 70 | 49 | 9 | 23 |
| July | 17 | 573 | 26 | 11 | 33 | 23 | 46 | 90 | 55 | 21 |
| August | 178 | 90 | 104 | 185 | 26 | 67 | 92 | 186 | 144 | 63 |
| September | 118 | 73 | 145 | 47 | 45 | 109 | 47 | 161 | 181 | 19 |
| October | 20 | 126 | 63 | 85 | 20 | 89 | 51 | 680 | 66 | 26 |
| November | 99 | 40 | 54 | 75 | 22 | 100 | 583 | 1,710 | 49 | 9 |
| December | 42 | 26 | 34 | 26 | 13 | 127 | 727 | 363 | 74 | 12 |
|  | $\mathbf{6 9 6}$ | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 9}$ | $\mathbf{2 , 3 4 2}$ |

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

| FISHING FLEET | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CL | - | - | - | - | 10 | - | - | 12 | - | - |
| ES | 318 | 2,008 | 258 | 261 | 114 | 475 | 2,274 | 3,214 | 510 | 2,106 |
| FK | 324 | 358 | 300 | 748 | 241 | 203 | 321 | 407 | 573 | 234 |
| JP | 38 | 5 | 0 | - | - | - | - | - | - | - |
| KR | 10 | 23 | 11 | 9 | 6 | 19 | 3 | 34 | 7 | 0 |
| RU | 1 | - | - | - | - | - | - | - | - | - |
| TW | - | - | - | - | - | - | - | - | 1 | - |
| UK | 4 | 0 | 3 | 5 | 0 | 17 | 12 | 20 | 48 | 2 |
|  | $\mathbf{6 9 6}$ | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 9}$ | $\mathbf{2 , 3 4 2}$ |

## Others

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

| GRT | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 0 0}$ | - | - | - | 6 | 7 | 5 | - | - | 0 | - |
| $\mathbf{4 0 0 - 5 9 9}$ | - | - | - | - | - | - | - | - | - | - |
| $\mathbf{6 0 0 - 7 9 9}$ | 66 | 97 | 16 | 20 | 27 | 16 | 80 | 34 | 33 | 90 |
| $\mathbf{8 0 0 - 9 9 9}$ | 141 | 183 | 162 | 275 | 87 | 270 | 1,375 | 292 | 102 | 215 |
| $\mathbf{1 , 0 0 0 - 1 , 4 9 9}$ | 239 | 142 | 154 | 595 | 133 | 264 | 720 | 2,042 | 414 | 1,552 |
| $\mathbf{1 , 5 0 0 - 1 , 9 9 9}$ | 203 | 1,954 | 196 | 93 | 86 | 125 | 373 | 1,206 | 405 | 470 |
| $\mathbf{2 , 0 0 0 - 2 , 9 9 9}$ | 9 | 12 | 43 | 34 | 28 | 34 | 60 | 114 | 185 | 14 |
| $\mathbf{> 2 , 9 9 9}$ | 38 | 6 | 0 | - | 3 | - | - | - | - | - |
|  | $\mathbf{6 9 6}$ | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 9}$ | $\mathbf{2 , 3 4 2}$ |

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

| LOA | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{4 5}$ | 0 | 6 | - | 6 | 7 | 30 | 539 | - | 0 | - |
| $\mathbf{4 5 - 4 9}$ | 8 | 76 | 21 | 1 | 1 | 28 | 7 | 15 | 34 | - |
| $\mathbf{5 0 - 5 4}$ | 158 | 165 | 127 | 108 | 102 | 125 | 294 | 46 | 13 | 91 |
| $\mathbf{5 5 - 5 9}$ | 60 | 63 | 56 | 88 | 10 | 35 | 243 | 226 | 112 | 539 |
| $\mathbf{6 0 - 6 4}$ | 73 | 13 | 20 | 348 | 98 | 179 | 371 | 979 | 127 | 602 |
| $\mathbf{6 5 - 6 9}$ | 173 | 220 | 171 | 395 | 99 | 190 | 930 | 1,474 | 294 | 721 |
| $\mathbf{7 0 - 7 9}$ | 164 | 1,811 | 138 | 64 | 16 | 100 | 192 | 852 | 409 | 384 |
| $\mathbf{8 0 - 8 9}$ | 17 | 33 | 17 | 6 | 11 | 14 | 13 | 82 | 80 | 4 |
| $>\mathbf{8 9}$ | 43 | 7 | 22 | 7 | 27 | 14 | 19 | 13 | 69 | 0 |
|  | $\mathbf{6 9 6}$ | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 9}$ | $\mathbf{2 , 3 4 2}$ |

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

| $\mathbf{B H P}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 4}$ | $\mathbf{2 0 1 5}$ | $\mathbf{2 0 1 6}$ | $\mathbf{2 0 1 7}$ | $\mathbf{2 0 1 8}$ | $\mathbf{2 0 1 9}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<\mathbf{1 , 0 0 0}$ | 1 | - | - | 6 | 7 | 5 | - | - | 21 | - |
| $\mathbf{1 , 0 0 0 - 1 , 1 9 9}$ | 0 | 1 | - | 0 | - | 25 | 539 | - | - | - |
| $\mathbf{1 , 2 0 0 - 1 , 3 9 9}$ | 3 | 1 | 2 | 9 | 1 | 1 | - | - | - | - |
| $\mathbf{1 , 4 0 0 - 1 , 5 9 9}$ | 168 | 174 | 136 | 125 | 113 | 130 | 418 | 184 | 168 | 173 |
| $\mathbf{1 , 6 0 0 - 1 , 7 9 9}$ | 74 | 63 | 6 | 334 | 89 | 76 | 306 | 237 | - | - |
| $\mathbf{1 , 8 0 0 - 1 , 9 9 9}$ | 180 | 215 | 213 | 424 | 80 | 204 | 952 | 2,222 | 340 | 1,612 |
| $\mathbf{2 , 0 0 0 - 2 , 4 9 9}$ | 189 | 1,866 | 126 | 68 | 31 | 187 | 188 | 725 | 146 | 410 |
| $\mathbf{2 , 5 0 0 - 2 , 9 9 9}$ | 10 | 22 | 22 | 9 | 6 | 22 | 108 | 101 | 80 | 88 |
| $\mathbf{3 , 0 0 0 - 3 , 9 9 9}$ | 26 | 44 | 44 | 38 | 31 | 51 | 67 | 146 | 285 | 52 |
| $\mathbf{> 3 , 9 9 9}$ | 43 | 7 | 23 | 10 | 12 | 14 | 31 | 73 | 98 | 8 |
|  | $\mathbf{6 9 6}$ | $\mathbf{2 , 3 9 3}$ | $\mathbf{5 7 2}$ | $\mathbf{1 , 0 2 3}$ | $\mathbf{3 7 1}$ | $\mathbf{7 1 5}$ | $\mathbf{2 , 6 0 9}$ | $\mathbf{3 , 6 8 8}$ | $\mathbf{1 , 1 3 9}$ | $\mathbf{2 , 3 4 2}$ |

## Others

Table N. 7 Total catch (tonnes) of others by species in 2019

| Common name | Latin Name | Catch mt |
| :---: | :---: | :---: |
| Driftfish | Seriolella porosa | 1,351.1 |
| Butterfish | Stromateus brasiliensis | 405.7 |
| Grenadier | Macrourus spp. | 381.7 |
| Dogfish, Spurdog | Squalus acanthias | 32.6 |
| Banded Grenadier | Coelorinchus fasciatus | 31.8 |
| Lobster Krill | Mundia gregaria | 30.8 |
| Dogfish/Catshark | Schroederichthys bivius | 24.2 |
| Blue Antimora | Antimora rostrata | 22.7 |
| Dwarf Codling | Physiculus marginatus | 15.1 |
| Frogmouth | Cottoperca gobio | 14.9 |
| Slender Tuna | Allothunnus fallai | 7.3 |
| Greenland Shark | Somniosus microcephalus | 5 |
| Horsefish | Congiopodus peruvianus | 5 |
| Notothenid | Patagonotothen tessellata | 2.8 |
| Eelpout | Iluocoetes fimbriatus | 2.2 |
| Greater Hooked Squid | Moroteuthis ingens | 1.9 |
| Falkland Herring | Sprattus fuegensis | 1.8 |
| Porbeagle | Lamna nasus | 1.6 |
| Others | Others | 1.1 |
| Red Fish | Sebastes oculatus | 0.6 |
| Crab | Lithodes murrayi | 0.5 |
| Dogfish | Squalidae | 0.4 |
| Hagfish | Myxinidae | 0.3 |
| Chinese Baby Face | Neophrynichthys marmoratus | 0.3 |
| Octopus | Octopus/eledone spp. | 0.2 |
| Krill | Euphasia superba | 0.1 |
| Common Smelt | Austromenidia smitti | 0.1 |
| Icefish | Champsocephalus esox | 0.1 |
| Moonfish | Lampris immaculatus | 0.1 |
| Mullet | Eleginops maclovinus | 0.1 |
| Flat fish | Mancopstta tricholepsis | 0.1 |
|  | Grand Total | 2,342,2 |



