Commission for the Conservation of
Southern Bluefin Tuna

みなみまぐろ保存委員会

**CCSBT-ERS/2603/04**

# Summaries from the 2025 ERSWG Data Exchange

## Introduction

This paper presents summaries from the data provided for the ERSWG Data Exchange (EDE). ERSWG 10 tasked the Secretariat with providing summaries of the exchanged data to ERSWG meetings, noting that the data would be aggregated over Members. The summaries would include at least observed and actual effort, observer coverage rate, observed mortalities and estimated total mortalities. Summaries would be provided separately for CCSBT statistical areas and species/species groups. The tables and figures presented in this paper are mainly an update of those presented in paper CCSBT-ERS/2406/04 at ERSWG 15.

The EDE commenced in 2013 with data provided for 2010 to 2012. Data have been submitted yearly since then and now includes information up to and including 2024. 2025 data are due to be submitted by 31 July 2026. The summaries in this paper are for all data held by the Secretariat as of December 2025 and include an additional two years data to the summary presented at ERSWG 15, plus some revisions to previously included data. Table 1 summarises the data provided by Members. There were no scientific observers deployed by Korea in 2020 or 2021, Japan in 2021 or 2022, and New Zealand in 2024 so there are no ERS capture data for those Members for those years. Indonesia has not provided data for 2024.

*Table 1 – Summary of ERSWG Data Exchange data by Members. The European Union had no reported SBT catch from 2013-2024 and therefore had no data to submit for those years. Indonesia has provided data for all years but has not been able to provide estimates of total fishing effort for 2010-2015. Furthermore, Indonesia has provided data for its entire longline fleet, not just sets where SBT were caught or targeted, and has not provided information on its usage of mitigation measures with its data. Therefore, Indonesia's data are not compatible with that provided by the other Members.*

| | Australia | EU | Indonesia | Japan | Korea | New Zealand | South Africa | Taiwan |
|---|---|---|---|---|---|---|---|---|
| 2010 | ✓ | × | ✓ | ✓ | ✓ | ✓ | × | ✓ |
| 2011 | ✓ | × | ✓ | ✓ | E | ✓ | × | ✓ |
| 2012 | ✓ | × | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2013 | ✓ | n/a | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2014 | ✓ | n/a | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2015 | ✓ | n/a | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2016 | ✓ | n/a | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2017 | ✓ | n/a | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2018 | ✓ | n/a | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2019 | ✓ | n/a | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2020 | ✓ | n/a | ✓ | ✓ | E | ✓ | ✓ | ✓ |
| 2021 | ✓ | n/a | ✓ | E | E | ✓ | ✓ | ✓ |
| 2022 | ✓ | n/a | ✓ | E | P | P | P | P |
| 2023 | ✓ | n/a | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2024 | ✓ | n/a | × | ✓ | ✓ | E | ✓ | ✓ |

E - Effort data provided only - observer coverage was 0%

At ERSWG 13, Members agreed to a new EDE template with data provided at higher spatial and temporal resolution and agreed to provide data from at least 2019 in the new format. Table 2 below shows the years for which Members have provided EDE data in the new format. Maps using the 5x5 data from 2019 have been included in this paper.

*Table 2 - Years for which CCSBT Members have provided ERSWG Data Exchange (EDE) data in the new format with a 5x5 resolution[1].*

| Year | AU | ID | JP | KR | NZ | TW | ZA |
|---|---|---|---|---|---|---|---|
| 2010 | | ✓ | | ✓ | | | |
| 2011 | | ✓ | | | | | |
| 2012 | | ✓ | | ✓ | | | |
| 2013 | | ✓ | | ✓ | | | |
| 2014 | | ✓ | | ✓ | | | |
| 2015 | | ✓ | | ✓ | | | |
| 2016 | ✓ | ✓ | | ✓ | | | |
| 2017 | ✓ | ✓ | | ✓ | | | |
| 2018 | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 2019 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2020 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2021 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2022 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2023 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2024 | ✓ | X | ✓ | ✓ | ✓ | ✓ | ✓ |

At ERSWG 15 Members agreed to the addition of hook-shielding devices (HS) as one of the mitigation types captured as part of the EDE. This was included and collected in the 2025 EDE, for 2024 data. All Members reported 0% effort using HS (noting that Indonesia has not yet provided data for 2024) apart from New Zealand that provided proportions of mitigation measures as reported by the fishermen, since it had no observers deployed for 2024. From the data provided, 79% of total New Zealand longline effort used hook-shielding devices.

The specifications of the EDE provide a template for the provision of data. The submissions received from Members followed the template but there were substantial differences in the level of species detail provided. Some Members[2] provided species specific data, while others[3] used the "species/species groups" defined within the EDE as the 'minimum taxonomic level at which information should be reported'. The summaries in this document are aggregated over Members, so these "species/species groups" are the finest common level of detail that can be presented (the groups are shown in Table 3).

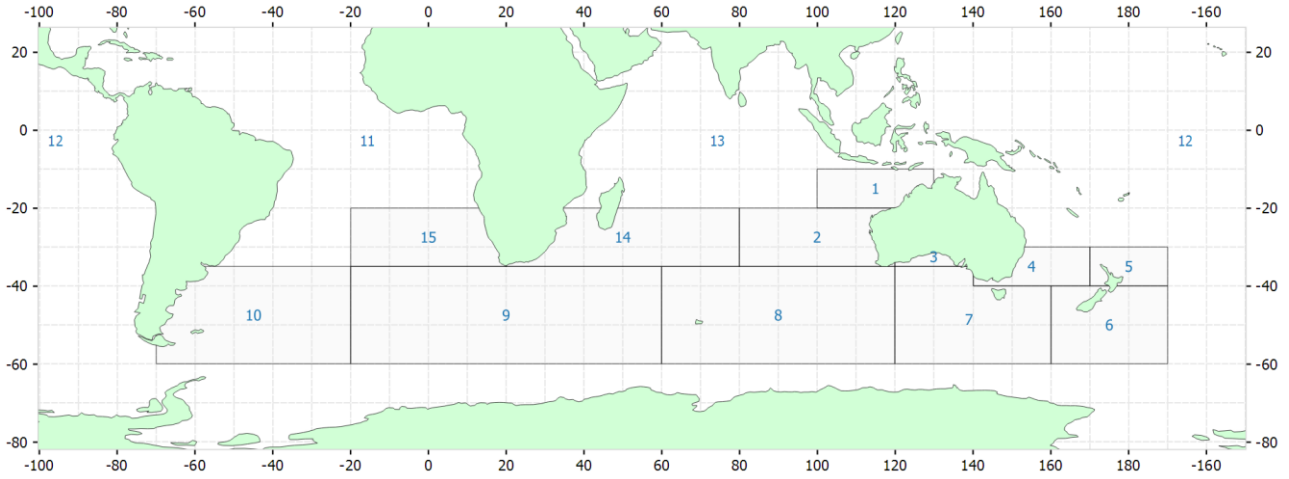
[1] The European Union is not included in this table, since it does not target SBT and has reported no catch of SBT, therefore has no related ERS data to report.
[2] Australia, Indonesia, Korea, New Zealand, South Africa, Taiwan.
[3] Japan

*Table 3 - Minimum taxonomic level at which information should be reported for the ERS Data Exchange (providing that such taxonomic detail is available).*

| Species/Species Group | Comments |
|---|---|
| Sharks | |
| Blue Shark | |
| Shortfin Mako Shark | |
| Porbeagle | |
| Other sharks | |
| Turtles | For sea turtles, the number of species is small (approximately 7), so it is feasible to report data by stratum for each species. |
| Species specific | *Data should be provided separately for each species* |
| Seabirds | For seabirds, there are a large number of species and it is often difficult to separately identify species by pictures only. Reporting of seabird data by species would contain identification errors. |
| Large albatrosses | *Including: Wandering, Tristan, New Zealand, Antipodean, Southern Royal, and Northern Royal* |
| Dark coloured albatrosses | *Including: Sooty and Light-mantled* |
| Other albatrosses | *Including: Black-browed, Campbell, Grey-headed, Atlantic yellow-nosed, Indian yellow-nosed, Buller's, Shy, Salvin's, Chatham and White-capped* |
| Giant petrels | *Including: White-chinned petrel, Grey petrel, Flesh-footed shearwater etc.* |
| Other seabirds | *Including: Skua etc.* |

For reference, the CCSBT Statistical Areas are shown in Figure 1 below.

*Figure 1 – CCSBT Statistical areas*




## Caveats of the Data

There are a number of caveats for the data used to generate the tables and maps in this paper that must be taken into consideration when interpreting the figures. These are all listed here to minimise repetition:

- There were no scientific observers deployed by Korea in 2020 or 2021, Japan in 2021 or 2022, and New Zealand in 2024 so there are no ERS capture data for those Members for those years.
- New Zealand had close to 100% EM coverage of its domestic fleet in 2024 and provided 'fisher' ERS capture data, but those data have not been incorporated into the summaries since it did not provide EM data that were reviewed and verified onshore.
- Indonesia has not provided data for 2024.
- Japan's revision of its 2016 and 2017 observer data reduced its reported 2017 observer coverage by over one million hooks, which is over 50%.
- For 2013, area 6 effort does not include the New Zealand domestic fleet effort. New Zealand did not submit figures for total or observed effort for the domestic fleet in that area and year and advised that operational issues resulted in very low observer coverage of the domestic fleet (<1%).

- The Indonesian domestic fleet is not included in the tables and maps of catch and effort as Indonesia has not been able to provide estimates of total effort for 2010-2016, and where it has provided effort data it is for the entire longline fleet and not effort by CCSBT authorised vessels for shots/sets where SBT was either targeted or caught. Therefore, Indonesia's data are not compatible with that provided by the other Members.
- A simple, non-model based, approach was used to estimate the total number of mortalities. The low level of observer coverage in many strata results in high scaling factors and a high risk of unrepresentative observations, so the numbers should be treated with caution.
- CCSBT Circular #2019/023 provided a letter from Japan dated 28 March 2019, which stated: "*In December, 2018, National Research Institute of Far Seas Fisheries (NRIFS) informed FAJ that they have found suspicious and/or inconsistent descriptions on seabird and other species data in certain observer reports recorded on Japanese large-scale longline vessels fishing for southern bluefin tuna in high-latitude areas of the southern hemisphere. Upon this, FAJ started its investigation into such observer reports.*". Subsequently, in May 2019, Japan provided revised 2016 and 2017 observer data for the EDE. This reduced Japan's reported 2017 observer coverage by over one million hooks, which is over 50%.

In particular, it should be noted that observed catch numbers and catch rates for years that have missing or reduced observer data cannot meaningfully be compared with other years.

**Effort Summaries**

As per the rules of the EDE, the fishing effort provided by Members is defined as being effort by CCSBT authorised vessels for shots/sets where SBT was either targeted or caught.

Attachment A shows observer coverage by flag, gear, fleet, year and CCSBT statistical area. The final column, representativeness, is the proportion of statistical areas fished that reached the target of 10% observer coverage as per the SMMTG Recommendations. There are only two fleets that maintained a representativeness of 100% for all years fished, these being the charter fleets for New Zealand, that has not fished in New Zealand since 2015, and the South African charter fleet (which did not fish in 2020 and did not catch SBT from 2022-2024).

Longline effort summaries are shown by CCSBT Statistical Area as a table in Attachment B and as maps in Attachment C, and by 5x5 degree squares in Attachment D. On the maps the circle area is proportional to the total number of hooks set in that area, with the yellow slice representing the proportion of hooks that were observed. The scale is the same across years.

Over the 15-year period longline observer coverage was on average 13.4% of total effort, but coverage varied considerably by area and year. Japan's observer coverage for 2017 and 2018 was less than 10% due to it removing a substantial amount of its observer data and its observer coverage was 0% for 2021 and 2022. Observer coverage for 2020 and 2021 was affected by the COVID-19 pandemic with most Members not achieving 10% coverage, and Korea having placed no observers for those years. The combined longline observer coverage is substantially higher in 2023 and 2024 than previous years (apart from 2019), with overall coverage at 19.3% and 22.4% respectively.

Table 4 shows the percentage observer coverage of longline effort for areas that are considered to be important for seabirds. Statistical areas 2 and 8 have been combined, as have areas 5 and 6.

*Table 4 – Longline observer coverage by year for areas that are important for seabirds.*

| | Year | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Statistical Area(s)** | **2010** | **2011** | **2012** | **2013** | **2014** | **2015** | **2016** | **2017** | **2018** | **2019** | **2020** | **2021** | **2022** | **2023** | **2024** |
| 2/8 | 13% | 9% | 15% | 15% | 13% | 9% | 12% | 10% | 15% | 21% | 12% | 8% | 13% | 21% | 26% |
| 4 | 2% | 5% | 9% | 7% | 12% | 14% | 18% | 7% | 9% | 13% | 3% | 5% | 6% | 8% | 17% |
| 5/6 | 24% | 17% | 17% | 24% | 35% | 30% | 14% | 20% | 9% | 11% | 11% | 6% | 3% | 7% | 0% |
| 7 | 0% | 7% | 4% | 7% | 15% | 16% | 24% | 11% | 2% | 24% | 5% | 0% | 0% | 25% | 20% |
| 9 | 6% | 10% | 14% | 10% | 7% | 15% | 20% | 5% | 12% | 24% | 9% | 1% | 12% | 17% | 27% |
| 14 | 3% | | 38% | 16% | 20% | 16% | 20% | 15% | 15% | 11% | 10% | 8% | 18% | 20% | 17% |

Purse seine effort summaries are shown as a Table in Attachment E and as maps in Attachment F. On the maps the circle area is proportional to the total number of sets in that area, with the yellow slice representing the proportion of sets that were observed. Observer coverage averages 16.1% over the 15-year period but was less than 10% in 2015 and 2022. Some statistical areas with a small number of sets for the year had no observer coverage.

**Observed Mortality Summaries**

The Table in Attachment G shows observed mortalities by year, statistical area, and species/species group for the SBT longline fishery, while attachments H and J map the distribution of observed mortalities by CCSBT Statistical Area for seabirds and sharks respectively. Attachments I and K map the distribution of observed mortalities by 5x5 degree squares. For the pie maps, the area of the pie is proportional to the total number of observed mortalities, with pie slices representing the proportion of each species/species group. The scale is the same across years. In Attachment I the orange heat map represents fishing effort and the overlayed blue heat map represents observed effort.

The number of observed bird mortalities by area varies considerably from year to year. The lower number of observed bird mortalities in 2017, 2020, and 2021would at least be partly due to the lower amount of observer data available for those years and should be interpreted with great caution. Note that a large proportion of mortalities are in the ‘other albatross’ and ‘other seabirds’ categories, some of which are unidentified seabirds that may belong in a different category.

The number of observed shark mortalities by area also varies considerably from year to year. Note that a large proportion of shark catch was not given a life status, see the charts and discussion on catch rates (and Attachment P). Some Members have only been including discarded mortalities in their EDE figures, and have not included retained catch, while other Members have included both. This is mainly an issue for data provided in the older EDE format (data provided for calendar years prior to 2017) since the new format specifically includes retained catches, although some Members have not included retained catch when calculating mortality rates. Korea provided revised historical data in the new EDE format to address this issue. Australia provided revised historical data for 2016-2018 in December 2022.

Table 5 shows observed mortalities for all seabirds combined, by year and statistical area. 85% of all observed bird mortalities occurred in areas 7, 8, and 9. The total number of observed bird mortalities in 2024 appears to be lower than previous years where observer data are not missing, noting that there are no capture data for areas 5 and 6 (see caveats section).

*Table 5 - Observed mortalities for the SBT longline fishery for all seabirds combined by year and statistical area[4].*

| | Statistical Area | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Year** | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 14 | 15 | **Total** |
| 2010 | 26 | 7 | 12 | 47 | | 16 | 335 | | | **443** |
| 2011 | | 60 | 14 | 12 | 76 | 151 | 109 | | | **422** |
| 2012 | 16 | 10 | 14 | 26 | 12 | | 89 | 12 | | **179** |
| 2013 | 19 | 7 | 1 | 3 | 30 | 20 | 322 | 12 | | **414** |
| 2014 | 5 | 60 | 27 | 21 | 301 | 44 | 174 | 12 | | **644** |
| 2015 | 5 | 86 | 10 | 14 | 396 | 91 | 352 | 13 | | **967** |
| 2016 | 6 | 86 | 16 | 101 | 826 | 104 | 699 | 2 | | **1840** |
| 2017 | 3 | 2 | 4 | 29 | 25 | 14 | 1 | 3 | | **81** |
| 2018 | 2 | 16 | 1 | 72 | 17 | 41 | 301 | 7 | | **457** |
| 2019 | 8 | 56 | 1 | 43 | 849 | 51 | 669 | 12 | | **1689** |
| 2020 | 7 | | 0 | 3 | 13 | 10 | 149 | 3 | 24 | **209** |
| 2021 | 3 | 0 | | 25 | | 7 | | | 4 | **39** |
| 2022 | 7 | | | 48 | | 297 | 33 | 3 | | **388** |
| 2023 | 13 | 4 | 0 | 28 | 21 | 236 | 69 | 12 | 20 | **403** |
| 2024 | | 2 | | | 11 | 64 | 122 | 2 | 20 | **221** |
| **Total** | **120** | **396** | **100** | **472** | **2577** | **1146** | **3424** | **93** | **68** | **8396** |
| **Average per year** | 8 | 26 | 7 | 31 | 172 | 76 | 228 | 6 | 5 | 560 |

Table 6 shows observed mortalities by year, statistical area, and species/species group for the SBT purse seine fishery. There were no observed mortalities reported.

[4] Note that the low numbers for 2017, 2020, 2021, 2022, and 2024 are at least partly due to the lack of observer data from one or more Members (see Table 2 and the 'Caveats of the Data' section).

*Table 6 - Observed mortalities for the SBT purse seine fishery by year and species/species group*

| Year | Blue shark | Shortfin mako shark | Porbeagle | Other sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2011** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2012** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2013** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2014** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2015** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2016** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2017** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2018** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2019** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2020** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2021** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2022** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2023** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ***Total*** | ***0*** | ***0*** | ***0*** | ***0*** | ***0*** | ***0*** | ***0*** | ***0*** | ***0*** | ***0*** |

## Observed Catch Summary

The Table in Attachment L shows observed captures by year, statistical area, and species/species group for the SBT longline fishery.

## Observed Catch Rate and Mortality Rate Summaries

The table in Attachment M shows observed catch rates by year, statistical area, and species/species group for the SBT longline fishery, while attachments N and O map the distribution of observed bird and shark capture rates by CCSBT Statistical Area. For the pie maps, the area of the pie is proportional to the total catch rate, with pie slices representing the proportion of each species/species group. The scale is the same across years.

Attachment P shows observed catch rates (numbers caught per thousand hooks) by year for each species group. The bars are divided by fate; red for observed mortalities, green for observed live releases, and grey for 'unknown life status' (for each species, Members provide total numbers caught, the number of individuals observed to be dead, and the number observed to be released alive. The 'unknown life status' number is the calculated discrepancy between 'total caught' – ('observed dead' + 'observed released alive')).

Attachment Q shows observed catch rates by species group, year, and statistical area.

Attachments R and T map mortality rates by CCSBT Statistical Area for seabirds and sharks respectively. The areas of the pies are proportional to the total mortality rate of all species combined, with pie slices representing the proportion of each species/species group. The scale is the same across years for each map series.

Note that in attachments T and O the data for statistical area 15 have been removed for 2014 and 2017. These points had extremely high capture and mortality rates for shortfin mako and blue shark but was for less than 10000 observed hooks.

Observed catch and mortality rates for seabirds are similar due to the low proportion of live releases. The overall bird rates appear to be the lowest in 2017 and 2021, but this is likely due to lower observer coverage in the areas where the most seabirds are caught. 2024 has the third lowest overall bird catch rate in the series but is missing catch information for areas 5 and 6.

Attachments S and U map mortality rates by 5x5 degree squares for seabirds and sharks respectively.

**Summaries of the Estimated Total Number of Mortalities**

The older ERSWG templates include a column for the estimated total number of mortalities per year/stratum. For data submitted using the older templates this particular column was provided for all years by four of the seven Members whose data are used in this report, not provided for any years by one Member, and partly provided for more recent years by two Members. Where the estimated total number of mortalities was provided, Members mostly used a simple scaling of the observed number of mortalities according to the observer coverage of the stratum and rounded fractions down to the next integer (even for fractions greater than 0.5). For data provided in the older formats, the estimated total number of mortalities for the three Members that did not provide the column were calculated by scaling the number of observed mortalities by the observer coverage of the stratum and rounding down to the nearest whole number, to be consistent with the data provided by the other Members.

At ERSWG 13, when Members agreed on a new EDE template, Members also agreed that the Secretariat would calculate the estimated total number of mortalities for data provided in the new format, using the following method:

> "raised mortalities would be estimated by applying a simple scaling ratio of observed mortalities and observed effort at the Statistical Area by fleet and year strata to the total effort. For finer scale estimates (e.g. 5x5 degree cell by quarter), the ratio calculated for the Statistical Area by fleet and year strata would be applied at the finer scale."

The Secretariat has used this method for all data provided in the new EDE template (see Table 1). Due to the method of using a raising ratio by year and statistical area on finer scale data it does not seem appropriate to present estimated total mortalities at the finer scale because they could be biased.

Note that due to the simple, non-model based, approach used to estimate the total number of mortalities, and the low level of observer coverage in many strata which results in high scaling factors and a high risk of unrepresentative observations, the numbers should be treated with caution.

The table in Attachment V shows estimated total mortalities by year, statistical area, and species/species group for the SBT longline fishery, while attachments W and X map the distribution of estimated total mortalities for seabirds and sharks respectively. As with observed mortalities, the areas of the pies are proportional to the total number of estimated mortalities, with pie slices representing the proportion of each species/species group. The scale is the same across years.

The distribution of total estimated bird mortalities by area is similar to the distribution of observed mortalities and also varies considerably from year to year. There are also relatively large numbers of seabirds in the 'other albatross' and 'other seabirds' categories, some of which are unidentified seabirds that may belong in a different category.

The distribution of total estimated shark mortalities by area is also quite similar to the distribution of observed shark mortalities and also varies considerably from year to year, so the same comment applies that it is difficult to see clear visual patterns other than blue shark being caught in much larger numbers than any other shark species.

Table 7 shows the estimated total mortalities for all seabirds combined. As with Table 5 regarding observed mortalities, areas 7, 8, and 9 have the highest total mortalities, but area 4 also has appreciable mortalities. When comparing the mortalities between years, it is important to note the caveats listed in the 'Caveats of the Data' section.

*Table 7 – Estimated total mortalities for the SBT longline fishery for all seabirds combined by year and statistical area[4].*

| | Statistical Area | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Year** | **2** | **4** | **5** | **6** | **7** | **8** | **9** | **14** | **15** | **Total** |
| 2010 | 160 | 892 | 133 | 498 | | 154 | 4,454 | | | **6,291** |
| 2011 | | 1,508 | 252 | 15 | 1,029 | 716 | 799 | | | **4,319** |
| 2012 | 48 | 123 | 154 | 42 | 265 | | 770 | 27 | | **1,429** |
| 2013 | 69 | 137 | 15 | 3 | 424 | 220 | 2,959 | 85 | | **3,912** |
| 2014 | 30 | 467 | 132 | 153 | 1,950 | 501 | 1,036 | 61 | | **4,330** |
| 2015 | 50 | 575 | 96 | 142 | 2,524 | 1,045 | 1,697 | 96 | | **6,224** |
| 2016 | 24 | 447 | 180 | 419 | 3,390 | 4,246 | 2,497 | 11 | | **11,214** |
| 2017 | 22 | 34 | 24 | 126 | 384 | 281 | 4 | 18 | | **894** |
| 2018 | 12 | 206 | 3 | 232 | 874 | 260 | 4,127 | 46 | | **5,760** |
| 2019 | 26 | 357 | 9 | 225 | 3,190 | 424 | 3,040 | 22 | | **7,293** |
| 2020 | 18 | | 0 | 14 | 432 | 37 | 938 | 65 | 101 | **1,605** |
| 2021 | 18 | 0 | | 117 | | 53 | | | 81 | **269** |
| 2022 | 24 | | | 319 | | 1,274 | 136 | 12 | | **1,765** |
| 2023 | 36 | 22 | 0 | 296 | 72 | 993 | 431 | 71 | 91 | **2,012** |
| 2024 | | 8 | | | 49 | 234 | 470 | 10 | 80 | **851** |
| **Total** | **538** | **4,776** | **998** | **2,601** | **14,583** | **10,438** | **23,358** | **524** | **353** | **58,168** |
| **Average** | **41** | **367** | **77** | **200** | **1,122** | **803** | **1,797** | **40** | **27** | **3,878** |

Table 8 shows estimated total mortalities by year, statistical area, and species/species group for the SBT purse seine fishery. There were no observed mortalities, so the total estimated mortalities are zero for this fishery.

*Table 8 - Estimated total mortalities for the SBT purse seine fishery by year, statistical area and species/species group*

| Year | Blue shark | Shortfin mako shark | Porbeagle | Other sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2011** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2012** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2013** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2014** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2015** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2016** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2017** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2018** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2019** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2020** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2021** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2022** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2023** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2024** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

## Summaries of Observed Effort with Specific Mitigation Measures

After ERSWG11, Members were required to provide the proportion of effort with specific mitigation measures. These have been aggregated over all fleets and statistical areas and are summarised in Table 9 below for 2014 to 2024 (these data are not available for most Members for earlier years). The column for 'Mix of 2 measures includes effort where two measures were used at all times but switched from night setting/tori pole to tori pole/branch lines after dawn. The highest proportion of effort with a single or no mitigation measures being used occurred in 2021, with over 60% of the effort for that year involving a single or no mitigation measure, but this proportion has been higher than 30% of effort for all years since 2018.

*Table 9 - Proportions of observed effort with specific mitigation measures by year.*

| | Tori pole + Night setting | Tori pole + weighted branchline | Night setting + weighted branchline | Tori pole + night setting + weighted | Tori pole | Night setting | Weighted branchline | None | Single measure (unspecified) | Mix of 2 measures | Other |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2014 | 22.8% | 57.0% | 0.0% | 6.5% | 0.0% | 0.0% | 0.0% | 0.0% | 13.7% | 0.0% | 0.0% |
| 2015 | 35.3% | 27.2% | 2.5% | 10.8% | 0.0% | 0.0% | 0.0% | 0.0% | 0.7% | 23.5% | 0.0% |
| 2016 | 37.1% | 14.8% | 0.3% | 17.1% | 24.9% | 1.4% | 0.1% | 3.2% | 1.1% | 0.0% | 0.0% |
| 2017 | 50.3% | 23.1% | 0.0% | 20.0% | 5.9% | 0.0% | 0.0% | 0.2% | 0.4% | 0.0% | 0.0% |
| 2018 | 24.9% | 15.4% | 0.0% | 11.1% | 42.3% | 1.6% | 0.0% | 4.6% | 0.0% | 0.0% | 0.0% |
| 2019 | 22.9% | 15.4% | 0.7% | 9.7% | 48.0% | 0.6% | 0.4% | 0.1% | 0.0% | 0.0% | 1.2% |
| 2020 | 43.1% | 7.6% | 2.1% | 11.3% | 31.1% | 1.5% | 1.5% | 1.8% | 0.0% | 0.0% | 0.0% |
| 2021 | 25.2% | 3.2% | 2.2% | 7.7% | 34.3% | 14.5% | 0.1% | 12.7% | 0.0% | 0.0% | 0.0% |
| 2022 | 25.3% | 30.0% | 0.5% | 7.7% | 31.3% | 4.2% | 0.0% | 1.1% | 0.0% | 0.0% | 0.0% |
| 2023 | 18.8% | 35.6% | 0.5% | 12.2% | 32.1% | 0.2% | 0.1% | 0.4% | 0.0% | 0.0% | 0.0% |
| 2024 | 11.5% | 34.4% | 2.1% | 11.8% | 29.5% | 4.8% | 0.0% | 5.0% | 0.0% | 0.0% | 0.0% |

The table in Attachment Y summarises the proportion of observed effort with specific mitigation measures by year and statistical area.

## Prepared by the Secretariat

*Observer coverage (observed hooks / total hooks or observed sets / total sets expressed as a percent) by flag, gear, fleet, year and CCSBT statistical area. Representativeness is the proportion of statistical areas fished that reached the target of 10% observer coverage as per the SMMTG Recommendations. Cells shaded in grey are strata with low effort (<25,000 hooks for longline and <5 sets for purse seine).*

| | | | | Statistical area | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Member code | Gear code | Fleet code | Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 14 | 15 | Total | Representativeness |
| AU | LL | AUD | 2010 | | | | 18% | | | | | | | | 18% | 100% |
| | | | 2011 | | | | 24% | | | | | | | | 24% | 100% |
| | | | 2012 | | 8% | | 37% | | | | | | | | 33% | 50% |
| | | | 2013 | | 0% | | 23% | | | | | | | | 22% | 50% |
| | | | 2014 | | 0% | | 6% | | | | | | | | 6% | 0% |
| | | | 2015 | | 22% | | 8% | | | | | | | | 8% | 50% |
| | | | 2016 | | 0% | | 14% | | | 17% | | | | | 14% | 67% |
| | | | 2017 | | | 0% | 11% | | | 12% | | | | | 12% | 67% |
| | | | 2018 | | 0% | | 12% | | | 35% | | | | | 11% | 67% |
| | | | 2019 | | | | 12% | | | 0% | | | | | 12% | 50% |
| | | | 2020 | | 0% | | 8% | | | 7% | | | | | 7% | 0% |
| | | | 2021 | | 0% | | 12% | | | 0% | | | | | 11% | 33% |
| | | | 2022 | | 0% | | 11% | | | 11% | 0% | | | | 10% | 50% |
| | | | 2023 | | 0% | | 10% | | | 2% | | | | | 10% | 33% |
| | | | 2024 | | 14% | | 11% | | | 6% | 15% | | | | 11% | 75% |
| | PS | AUD | 2010 | | | 26% | | | | | | | | | 26% | 100% |
| | | | 2011 | | | 17% | | | | 0% | | | | | 16% | 50% |
| | | | 2012 | | | 14% | | | | 9% | | | | | 11% | 50% |
| | | | 2013 | | | 0% | | | | 13% | | | | | 12% | 50% |
| | | | 2014 | | | | | | | 23% | | | | | 23% | 100% |
| | | | 2015 | | | | | | | 9% | | | | | 9% | 0% |
| | | | 2016 | | | | | | | 19% | | | | | 19% | 100% |
| | | | 2017 | | | | | | | 25% | | | | | 25% | 100% |
| | | | 2018 | | | 0% | | | | 21% | | | | | 21% | 50% |
| | | | 2019 | | | 0% | | | | 13% | | | | | 13% | 50% |
| | | | 2020 | | | | | | | 11% | | | | | 11% | 100% |
| | | | 2021 | | | 0% | | | | 28% | | | | | 28% | 50% |
| | | | 2022 | | | 0% | | | | 8% | | | | | 8% | 0% |
| | | | 2023 | | | | | | | 13% | | | | | 13% | 100% |
| | | | 2024 | | | 0% | | | | 25% | | | | | 17% | 50% |
| JP | LL | JPD | 2010 | | | | 1% | 0% | | 0% | 9% | 7% | | | 5% | 0% |
| | | | 2011 | | | | 4% | 5% | | 7% | 21% | 14% | | | 11% | 40% |
| | | | 2012 | | | | 8% | 1% | | 4% | 11% | 9% | | | 8% | 20% |
| | | | 2013 | | | | 5% | 3% | | 7% | 7% | 11% | | | 8% | 20% |
| | | | 2014 | | | | 13% | 26% | | 15% | 5% | 17% | | | 12% | 80% |
| | | | 2015 | | | | 15% | 20% | | 16% | 9% | 21% | | | 14% | 80% |
| | | | 2016 | | | | 19% | 8% | | 24% | 2% | 29% | | | 17% | 60% |
| | | | 2017 | | | | 6% | | | 11% | 4% | 0% | | | 5% | 25% |
| | | | 2018 | | | | 8% | 0% | | 2% | 14% | 6% | | | 6% | 20% |
| | | | 2019 | | | | 14% | 16% | | 24% | 13% | 26% | | | 22% | 100% |
| | | | 2020 | | | | 0% | 18% | 5% | 5% | 3% | 11% | | | 7% | 33% |
| | | | 2021 | | | | 0% | 0% | 0% | 0% | 0% | 0% | | | 0% | 0% |
| | | | 2022 | | | | 0% | 0% | 0% | 0% | 0% | 0% | | | 0% | 0% |
| | | | 2023 | | | | 3% | 13% | 11% | 25% | 18% | 11% | | | 17% | 83% |
| | | | 2024 | | | | 19% | 0% | 0% | 21% | 24% | 35% | | | 25% | 67% |
| KR | LL | KRD | 2010 | | 0% | | | | | | 0% | 25% | | | 11% | 33% |
| | | | 2011 | | 0% | | | | | | 0% | 0% | | | 0% | 0% |
| | | | 2012 | | 0% | | | | | | 0% | 16% | | | 8% | 33% |
| | | | 2013 | | 34% | | | | | | 13% | 26% | | | 19% | 100% |
| | | | 2014 | | 0% | | | | | | 18% | 0% | | | 7% | 33% |
| | | | 2015 | | 0% | | | | | | 12% | 17% | | | 14% | 67% |
| | | | 2016 | | | | | | | | 0% | 20% | | | 19% | 50% |
| | | | 2017 | | | | | | | | | 18% | | | 18% | 100% |
| | | | 2018 | | | | | | | | | 21% | | | 21% | 100% |
| | | | 2019 | | | | | | | | | 22% | | | 22% | 100% |
| | | | 2020 | | | | | | | | 0% | 0% | | | 0% | 0% |
| | | | 2021 | | | | | | | | 0% | 0% | | | 0% | 0% |
| | | | 2022 | | | | | | | | 0% | 24% | | | 22% | 50% |
| | | | 2023 | | | | | | | | 0% | 22% | | | 20% | 50% |
| | | | 2024 | | | | | | | | 0% | 20% | | | 18% | 50% |
| NZ | LL | NZC | 2010 | | | | | | 81% | | | | | | 81% | 100% |
| | | | 2011 | | | | | | 74% | | | | | | 74% | 100% |
| | | | 2012 | | | | | 67% | 84% | | | | | | 84% | 100% |
| | | | 2013 | | | | | 88% | 78% | | | | | | 78% | 100% |
| | | | 2014 | | | | | | 83% | | | | | | 83% | 100% |
| | | | 2015 | | | | | | 81% | | | | | | 81% | 100% |
| | | NZD | 2010 | | | | | 9% | 8% | | | | | | 9% | 0% |
| | | | 2011 | | | | | 10% | 0% | | | | | | 8% | 0% |
| | | | 2012 | | | | | 9% | 7% | | | | | | 8% | 0% |
| | | | 2013 | | | | | 7% | | | | | | | 7% | 0% |
| | | | 2014 | | | | | 11% | 9% | | | | | | 10% | 50% |
| | | | 2015 | | | | | 9% | 4% | | | | | | 7% | 0% |
| | | | 2016 | | | | | 16% | 24% | | | | | | 19% | 100% |
| | | | 2017 | | | | | 18% | 23% | | | | | | 20% | 100% |
| | | | 2018 | | | | 0% | 14% | 17% | | | | | | 15% | 67% |
| | | | 2019 | | | | | 8% | 10% | | | | | | 9% | 50% |
| | | | 2020 | | | | | 9% | 10% | | | | | | 9% | 0% |
| | | | 2021 | | | | 0% | 6% | 14% | | | | | | 10% | 33% |
| | | | 2022 | | | | 0% | 0% | 8% | | | | | | 5% | 0% |
| | | | 2023 | | | | 0% | 1% | 6% | | | | | | 4% | 0% |
| | | | 2024 | | | | | 0% | 0% | | | | | | 0% | 0% |

| | | | | Statistical area | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Member code | Gear code | Fleet code | Year | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 14 | 15 | Total | Representativeness |
| TW | LL | TWD | 2010 | | 16% | | | | | | 12% | 2% | 3% | | 9% | 50% |
| | | | 2011 | | | | | | | | | 3% | | | 3% | 0% |
| | | | 2012 | | 32% | | | | | | | 20% | 41% | | 28% | 100% |
| | | | 2013 | | 26% | | | | | | 9% | 7% | 14% | | 13% | 50% |
| | | | 2014 | | 16% | | | | | | 25% | 1% | 19% | | 14% | 75% |
| | | | 2015 | | 10% | | | | | | 9% | 5% | 15% | | 10% | 50% |
| | | | 2016 | | 25% | | | | | | 15% | 10% | 19% | | 17% | 75% |
| | | | 2017 | | 13% | | | | | | 12% | 0% | 12% | | 10% | 75% |
| | | | 2018 | | 15% | | | | | | 18% | 20% | 14% | 28% | 15% | 100% |
| | | | 2019 | | 26% | | | | | | 18% | 5% | 10% | | 17% | 50% |
| | | | 2020 | | 22% | | | | | | 10% | 10% | 10% | | 13% | 75% |
| | | | 2021 | | 18% | | | | | | 15% | 2% | 8% | | 12% | 50% |
| | | | 2022 | | 23% | | | | | | 19% | 18% | 18% | | 19% | 100% |
| | | | 2023 | | 30% | | 16% | | | | 22% | | 20% | 60% | 23% | 100% |
| | | | 2024 | | 26% | | 41% | | | 7% | 33% | 62% | 16% | 36% | 24% | 86% |
| ZA | LL | ZAC | 2012 | | | | | | | | | 88% | 43% | | 68% | 100% |
| | | | 2013 | | | | | | | | | 100% | 84% | | 85% | 100% |
| | | | 2014 | | | | | | | | | | 94% | | 94% | 100% |
| | | | 2015 | | | | | | | | | 100% | 97% | | 97% | 100% |
| | | | 2016 | | | | | | | | | 40% | 63% | | 62% | 100% |
| | | | 2017 | | | | | | | | | 100% | 100% | | 100% | 100% |
| | | | 2018 | | | | | | | | | 100% | 100% | | 100% | 100% |
| | | | 2019 | | | | | | | | | 107% | 98% | | 104% | 100% |
| | | | 2020 | | | | | | | | | | | | | |
| | | | 2021 | | | | | | | | | 100% | 100% | | 100% | 100% |
| | | ZAD | 2012 | | | | | | | | | 0% | 0% | 0% | 0% | 0% |
| | | | 2013 | | | | | | | | | 0% | 0% | 0% | 0% | 0% |
| | | | 2014 | | | | | | | | | 16% | 0% | 3% | 7% | 33% |
| | | | 2015 | | | | | | | | | 0% | 0% | 0% | 0% | 0% |
| | | | 2016 | | | | | | | | | 2% | 0% | 0% | 1% | 0% |
| | | | 2017 | | | | | | | | | 7% | 0% | 3% | 5% | 0% |
| | | | 2018 | | | | | | | | | 11% | 16% | 16% | 15% | 100% |
| | | | 2019 | | | | | | | | | 10% | 10% | 14% | 13% | 33% |
| | | | 2020 | | | | | | | | | 11% | 25% | 31% | 24% | 100% |
| | | | 2021 | | | | | | | | | 16% | 20% | 11% | 14% | 100% |
| | | | 2022 | | | | | | | | | 3% | 0% | 8% | 4% | 0% |
| | | | 2023 | | | | | | | | | 13% | 9% | 15% | 13% | 67% |
| | | | 2024 | | | | | | | | | 20% | 30% | 22% | 22% | 100% |

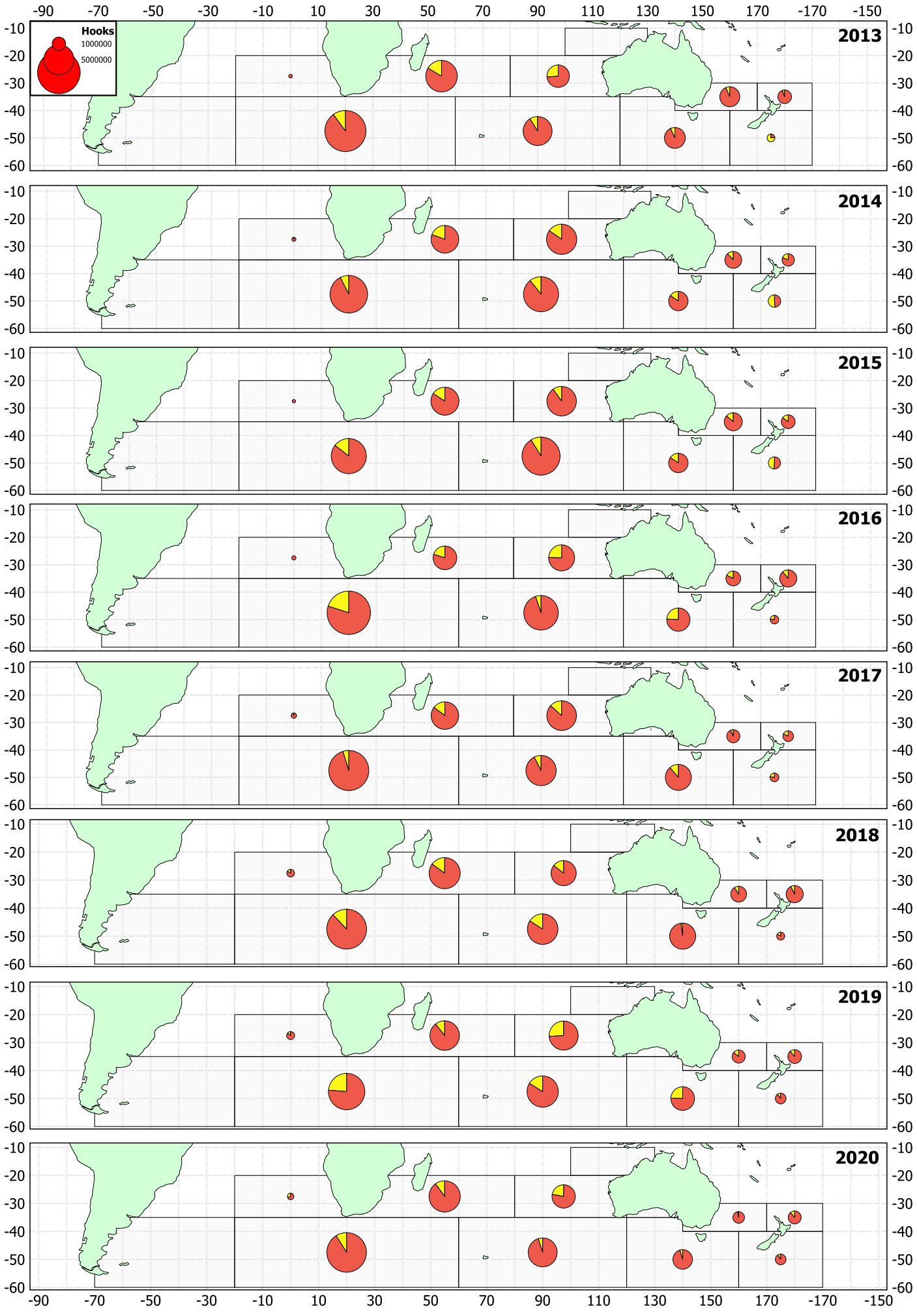
*Longline effort by year and statistical area, with observer coverage*

| Year | Statistical area | Total effort (1000s of hooks) | Observed effort (1000s of hooks) | Observer coverage |
|---|---|---|---|---|
| **2010** | 2 | 12,456 | 1,960 | 15.7% |
| | 4 | 4,007 | 66 | 1.6% |
| | 5 | 1,345 | 88 | 6.5% |
| | 6 | 739 | 408 | 55.2% |
| | 7 | 1,304 | 0 | 0.0% |
| | 8 | 7,396 | 615 | 8.3% |
| | 9 | 19,659 | 1,152 | 5.9% |
| | 14 | 3,978 | 102 | 2.6% |
| | ***2010 Total*** | ***50,884*** | ***4,391*** | ***8.6%*** |
| **2011** | 2 | 103 | 0 | 0.0% |
| | 4 | 4,208 | 191 | 4.5% |
| | 5 | 2,539 | 170 | 6.7% |
| | 6 | 683 | 365 | 53.5% |
| | 7 | 1,986 | 147 | 7.4% |
| | 8 | 6,118 | 589 | 9.6% |
| | 9 | 10,515 | 1,066 | 10.1% |
| | ***2011 Total*** | ***26,151*** | ***2,528*** | ***9.7%*** |
| **2012** | 2 | 1,944 | 623 | 32.0% |
| | 4 | 3,452 | 306 | 8.9% |
| | 5 | 2,269 | 93 | 4.1% |
| | 6 | 1,112 | 498 | 44.8% |
| | 7 | 2,451 | 110 | 4.5% |
| | 8 | 4,225 | 280 | 6.6% |
| | 9 | 11,319 | 1,609 | 14.2% |
| | 14 | 1,254 | 479 | 38.2% |
| | 15 | 40 | 0 | 0.0% |
| | ***2012 Total*** | ***28,067*** | ***3,997*** | ***14.2%*** |
| **2013** | 2 | 3,704 | 968 | 26.1% |
| | 4 | 2,952 | 200 | 6.8% |
| | 5 | 1,364 | 83 | 6.1% |
| | 6 | 450 | 349 | 77.6% |
| | 7 | 3,216 | 227 | 7.1% |
| | 8 | 6,184 | 551 | 8.9% |
| | 9 | 12,441 | 1,249 | 10.0% |
| | 14 | 7,330 | 1,209 | 16.5% |
| | 15 | 100 | 0 | 0.0% |
| | ***2013 Total*** | ***37,741*** | ***4,836*** | ***12.8%*** |
| **2014** | 2 | 6,722 | 1,032 | 15.4% |
| | 4 | 2,087 | 251 | 12.0% |
| | 5 | 1,123 | 213 | 18.9% |
| | 6 | 1,137 | 589 | 51.8% |
| | 7 | 2,759 | 426 | 15.4% |
| | 8 | 9,043 | 976 | 10.8% |
| | 9 | 10,394 | 777 | 7.5% |
| | 14 | 5,628 | 1,104 | 19.6% |
| | 15 | 122 | 4 | 3.0% |
| | ***2014 Total*** | ***39,015*** | ***5,372*** | ***13.8%*** |
| **2015** | 2 | 6,411 | 633 | 9.9% |
| | 4 | 2,387 | 330 | 13.8% |
| | 5 | 1,394 | 209 | 15.0% |
| | 6 | 1,086 | 523 | 48.2% |
| | 7 | 2,770 | 434 | 15.7% |
| | 8 | 10,655 | 942 | 8.8% |
| | 9 | 9,091 | 1,319 | 14.5% |
| | 14 | 5,774 | 917 | 15.9% |
| | 15 | 82 | 0 | 0.0% |
| | ***2015 Total*** | ***39,651*** | ***5,307*** | ***13.4%*** |

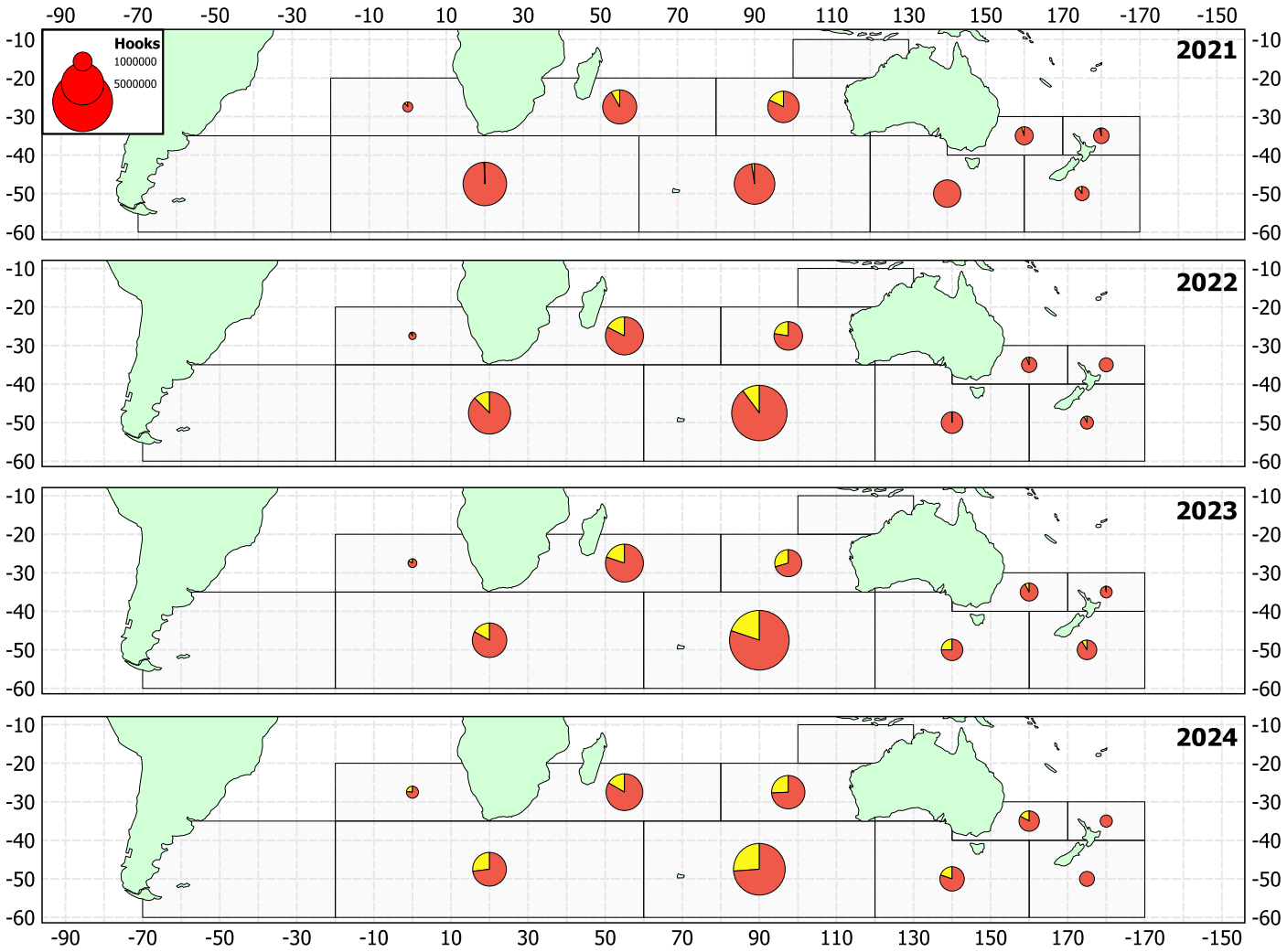
| Year | Statistical area | Total effort (1000s of hooks) | Observed effort (1000s of hooks) | Observer coverage |
|---|---|---|---|---|
| **2016** | 2 | 4,971 | 1,224 | 24.6% |
| | 4 | 1,601 | 290 | 18.1% |
| | 5 | 2,153 | 242 | 11.2% |
| | 6 | 539 | 130 | 24.1% |
| | 7 | 3,976 | 962 | 24.2% |
| | 8 | 8,778 | 463 | 5.3% |
| | 9 | 13,857 | 2,783 | 20.1% |
| | 14 | 4,132 | 829 | 20.1% |
| | 15 | 132 | 0 | 0.0% |
| | ***2016 Total*** | ***40,140*** | ***6,923*** | ***17.2%*** |
| **2017** | 2 | 6,478 | 866 | 13.4% |
| | 3 | 1 | 0 | 0.0% |
| | 4 | 1,273 | 93 | 7.3% |
| | 5 | 838 | 149 | 17.8% |
| | 6 | 565 | 128 | 22.7% |
| | 7 | 4,979 | 565 | 11.4% |
| | 8 | 6,747 | 504 | 7.5% |
| | 9 | 11,809 | 563 | 4.8% |
| | 12 | 2 | 0 | 0.0% |
| | 14 | 5,568 | 823 | 14.8% |
| | 15 | 213 | 7 | 3.4% |
| | ***2017 Total*** | ***38,473*** | ***3,698*** | ***9.6%*** |
| **2018** | 2 | 4,480 | 655 | 14.6% |
| | 4 | 1,773 | 163 | 9.2% |
| | 5 | 2,082 | 158 | 7.6% |
| | 6 | 446 | 77 | 17.2% |
| | 7 | 4,822 | 104 | 2.2% |
| | 8 | 6,608 | 1,052 | 15.9% |
| | 9 | 11,235 | 1,360 | 12.1% |
| | 12 | 7 | 0 | 0.0% |
| | 14 | 6,845 | 1,030 | 15.1% |
| | 15 | 417 | 70 | 16.8% |
| | ***2018 Total*** | ***38,715*** | ***4,670*** | ***12.1%*** |
| **2019** | 2 | 5,978 | 1,548 | 25.9% |
| | 4 | 1,214 | 163 | 13.4% |
| | 5 | 1,338 | 154 | 11.5% |
| | 6 | 814 | 83 | 10.2% |
| | 7 | 3,965 | 964 | 24.3% |
| | 8 | 6,934 | 1,116 | 16.1% |
| | 9 | 9,400 | 2,237 | 23.8% |
| | 14 | 6,181 | 658 | 10.6% |
| | 15 | 454 | 65 | 14.4% |
| | ***2019 Total*** | ***36,277*** | ***6,987*** | ***19.3%*** |
| **2020** | 2 | 3,838 | 851 | 22.2% |
| | 4 | 955 | 30 | 3.1% |
| | 5 | 1,191 | 139 | 11.7% |
| | 6 | 811 | 75 | 9.3% |
| | 7 | 2,714 | 129 | 4.8% |
| | 8 | 5,933 | 295 | 5.0% |
| | 9 | 11,093 | 993 | 9.0% |
| | 12 | 12 | 2 | 18.3% |
| | 14 | 6,917 | 691 | 10.0% |
| | 15 | 302 | 94 | 31.0% |
| | ***2020 Total*** | ***33,767*** | ***3,300*** | ***9.8%*** |

| Year | Statistical area | Total effort (1000s of hooks) | Observed effort (1000s of hooks) | Observer coverage |
|---|---|---|---|---|
| **2021** | 2 | 3,697 | 657 | 17.8% |
| | 4 | 1,215 | 62 | 5.1% |
| | 5 | 912 | 33 | 3.6% |
| | 6 | 766 | 73 | 9.5% |
| | 7 | 2,798 | 0 | 0.0% |
| | 8 | 6,163 | 145 | 2.4% |
| | 9 | 7,079 | 47 | 0.7% |
| | 12 | 2 | 0 | 0.0% |
| | 14 | 4,339 | 362 | 8.3% |
| | 15 | 376 | 40 | 10.6% |
| | ***2021 Total*** | ***27,348*** | ***1,420*** | ***5.2%*** |
| **2022** | 2 | 3,040 | 685 | 22.5% |
| | 4 | 878 | 52 | 5.9% |
| | 5 | 734 | 0 | 0.0% |
| | 6 | 628 | 46 | 7.3% |
| | 7 | 1,742 | 3 | 0.2% |
| | 8 | 11,460 | 1,173 | 10.2% |
| | 9 | 6,637 | 829 | 12.5% |
| | 12 | 12 | 1 | 5.6% |
| | 14 | 5,403 | 947 | 17.5% |
| | 15 | 203 | 17 | 8.4% |
| | ***2022 Total*** | ***30,737*** | ***3,753*** | ***12.2%*** |
| **2023** | 2 | 2,727 | 803 | 29.4% |
| | 4 | 1,200 | 95 | 7.9% |
| | 5 | 520 | 14 | 2.7% |
| | 6 | 1,430 | 127 | 8.9% |
| | 7 | 1,717 | 429 | 25.0% |
| | 8 | 13,299 | 2,638 | 19.8% |
| | 9 | 4,438 | 750 | 16.9% |
| | 12 | 4 | 0 | 0.0% |
| | 14 | 5,383 | 1,067 | 19.8% |
| | 15 | 289 | 48 | 16.6% |
| | ***2023 Total*** | ***31,008*** | ***5,971*** | ***19.3%*** |
| **2024** | 2 | 4,152 | 1,069 | 25.7% |
| | 4 | 1,548 | 264 | 17.1% |
| | 5 | 553 | 0 | 0.0% |
| | 6 | 831 | 0 | 0.0% |
| | 7 | 2,218 | 440 | 19.9% |
| | 8 | 9,980 | 2,609 | 26.1% |
| | 9 | 4,247 | 1,146 | 27.0% |
| | 12 | 160 | 72 | 45.3% |
| | 14 | 5,046 | 843 | 16.7% |
| | 15 | 543 | 126 | 23.2% |
| | ***2024 Total*** | ***29,279*** | ***6,569*** | ***22.4%*** |

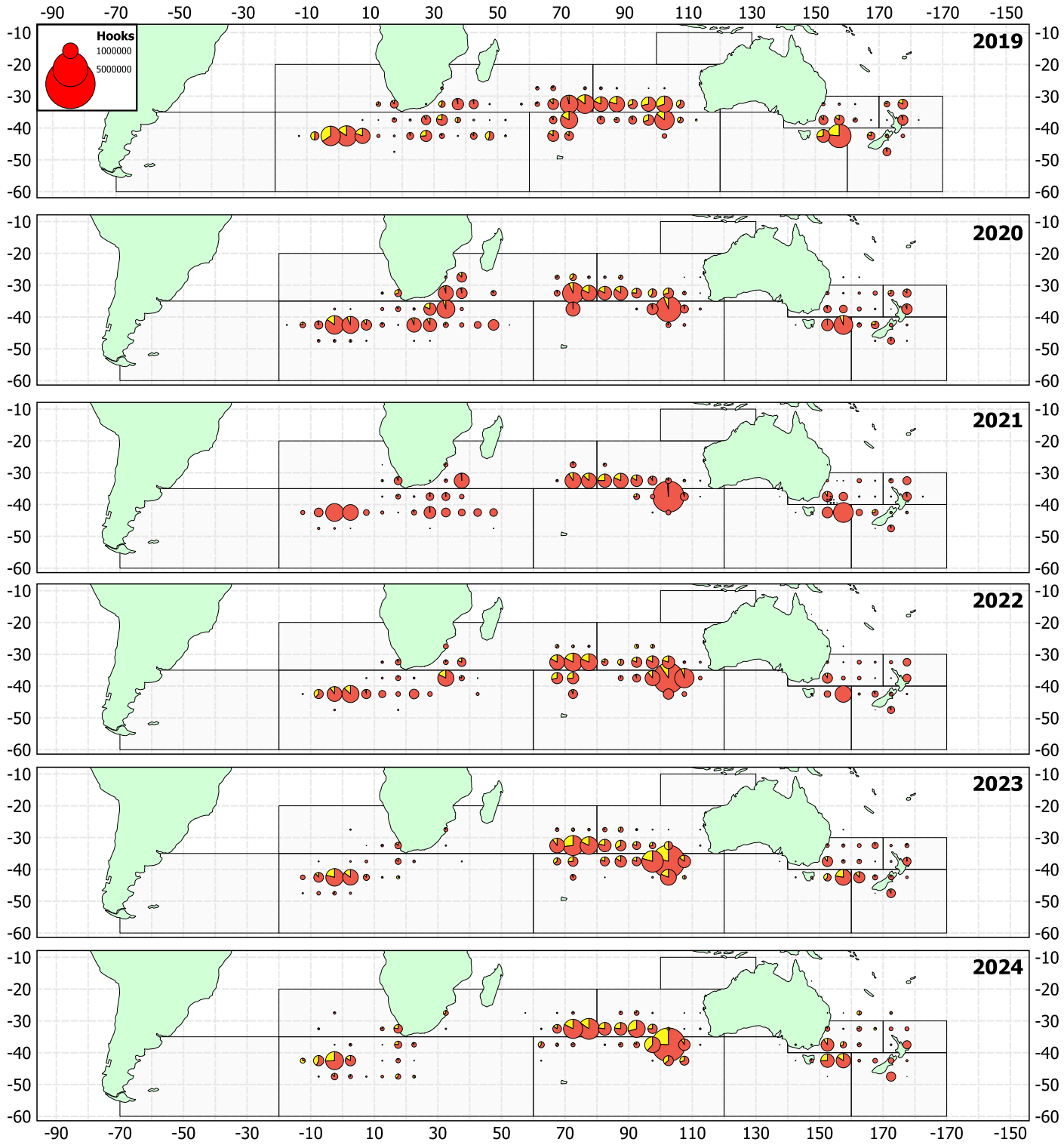
# Longline SBT effort showing observer coverage (yellow)



## Longline SBT effort showing observer coverage (yellow)



## Longline SBT effort showing observer coverage (yellow)

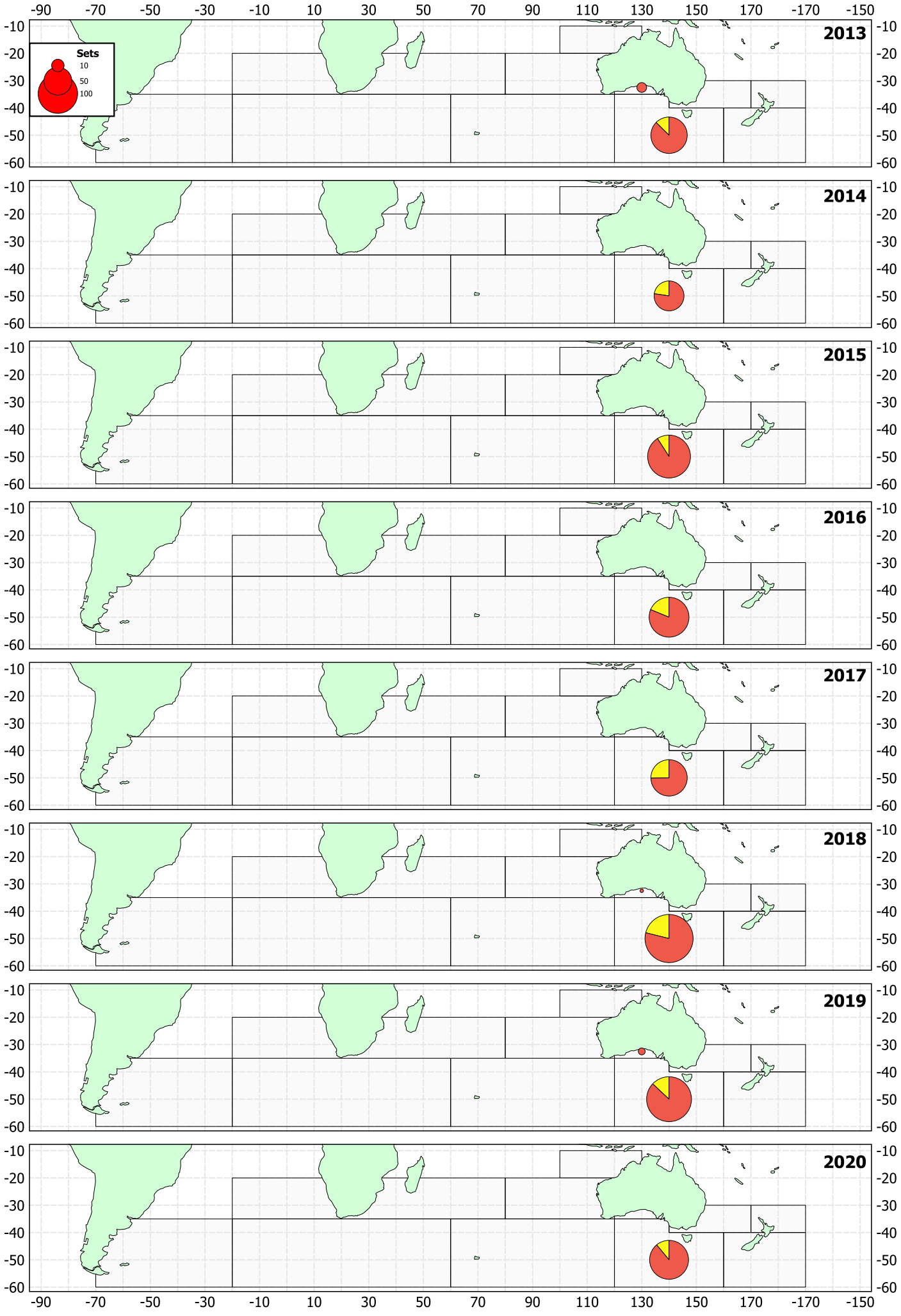


*Purse seine effort by year and statistical area, with observer coverage*

| Year | Statistical area | Total effort (sets) | Observed effort (sets) | Observer coverage |
|---|---|---|---|---|
| **2010** | 3 | 82 | 21 | 25.6% |
| | ***2010 Total*** | ***82*** | ***21*** | ***25.6%*** |
| **2011** | 3 | 98 | 17 | 17.3% |
| | 7 | 10 | 0 | 0.0% |
| | ***2011 Total*** | ***108*** | ***17*** | ***15.7%*** |
| **2012** | 3 | 71 | 10 | 14.1% |
| | 7 | 81 | 7 | 8.6% |
| | ***2012 Total*** | ***152*** | ***17*** | ***11.2%*** |
| **2013** | 3 | 8 | 0 | 0.0% |
| | 7 | 111 | 14 | 12.6% |
| | ***2013 Total*** | ***119*** | ***14*** | ***11.8%*** |
| **2014** | 7 | 75 | 17 | 22.7% |
| | ***2014 Total*** | ***75*** | ***17*** | ***22.7%*** |
| **2015** | 7 | 154 | 14 | 9.1% |
| | ***2015 Total*** | ***154*** | ***14*** | ***9.1%*** |
| **2016** | 7 | 133 | 25 | 18.8% |
| | ***2016 Total*** | ***133*** | ***25*** | ***18.8%*** |
| **2017** | 7 | 111 | 28 | 25.2% |
| | ***2017 Total*** | ***111*** | ***28*** | ***25.2%*** |
| **2018** | *3* | *1* | *0* | *0.0%* |
| | 7 | 194 | 41 | 21.1% |
| | Unknown | 4 | 0 | 0.0% |
| | ***2018 Total*** | ***199*** | ***41*** | ***20.6%*** |
| **2019** | *3* | *4* | *0* | *0.0%* |
| | 7 | 169 | 22 | 13.0% |
| | ***2019 Total*** | ***173*** | ***22*** | ***12.7%*** |
| **2020** | 7 | 127 | 14 | 11.0% |
| | ***2020 Total*** | ***127*** | ***14*** | ***11.0%*** |
| **2021** | *3* | *1* | *0* | *0.0%* |
| | *7* | *147* | *41* | *27.9%* |
| | ***2021 Total*** | ***148*** | ***41*** | ***27.7%*** |
| **2022** | *3* | *2* | *0* | *0.0%* |
| | *7* | *153* | *13* | *8.5%* |
| | ***2022 Total*** | ***155*** | ***13*** | ***8.4%*** |
| **2023** | 7 | 171 | 22 | 12.9% |
| | ***2023 Total*** | ***171*** | ***22*** | ***12.9%*** |
| **2024** | *3* | *40* | *0* | *0.0%* |
| | 7 | 88 | 22 | 25.0% |
| | Unknown | 1 | 0 | 0.0% |
| | ***2024 Total*** | ***129*** | ***22*** | ***17.1%*** |
| **Total** | | **2,036** | **328** | **16.1%** |

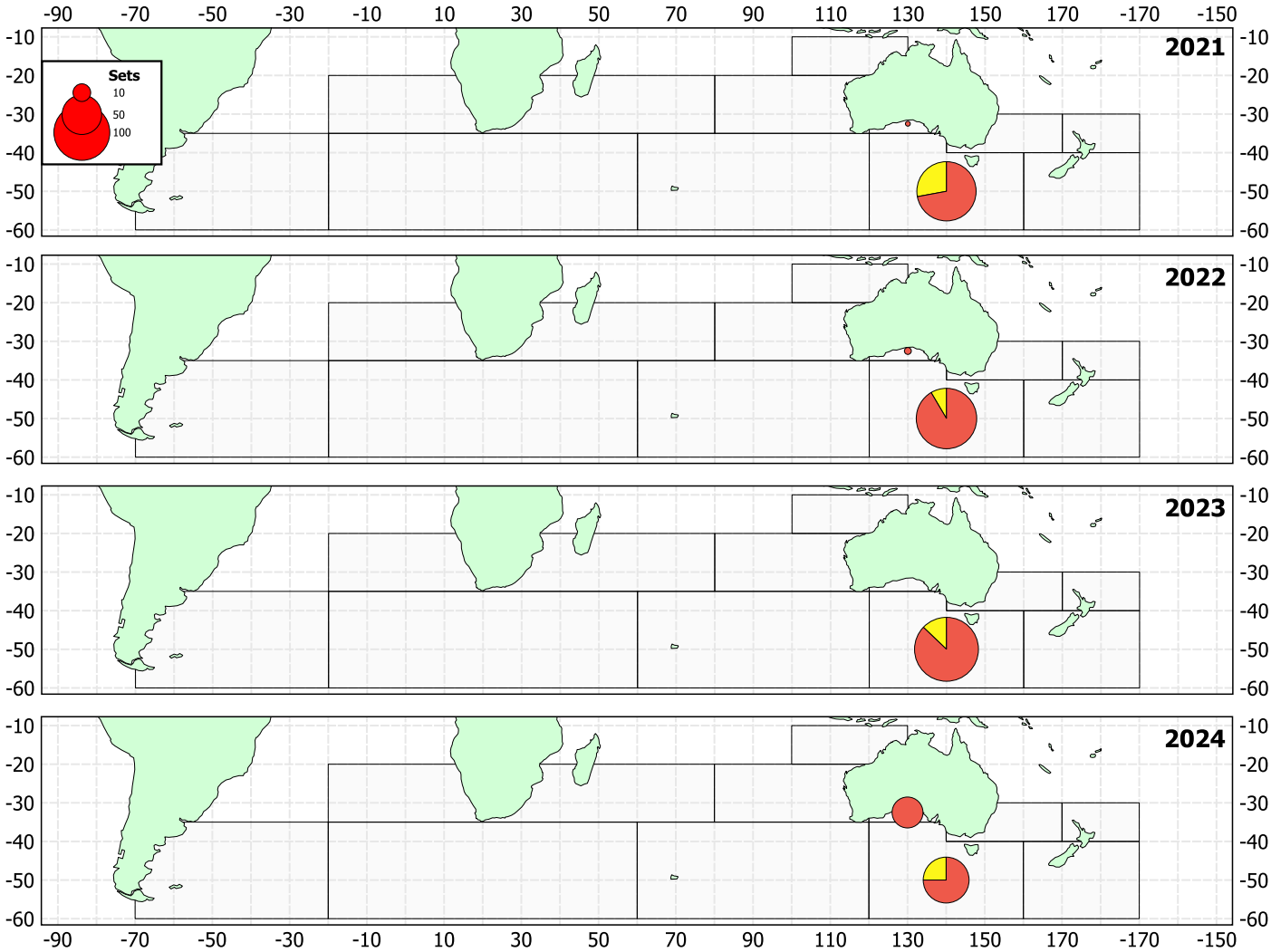
**Purse seine SBT effort, showing observer coverage (yellow)**

**Attachment F**



**Purse seine SBT effort, showing observer coverage (yellow)**

**Attachment F**



*Observed mortalities for the SBT longline fishery by year, statistical area and species/species group (refer to the 'Caveats of the Data' section before interpreting the results).*

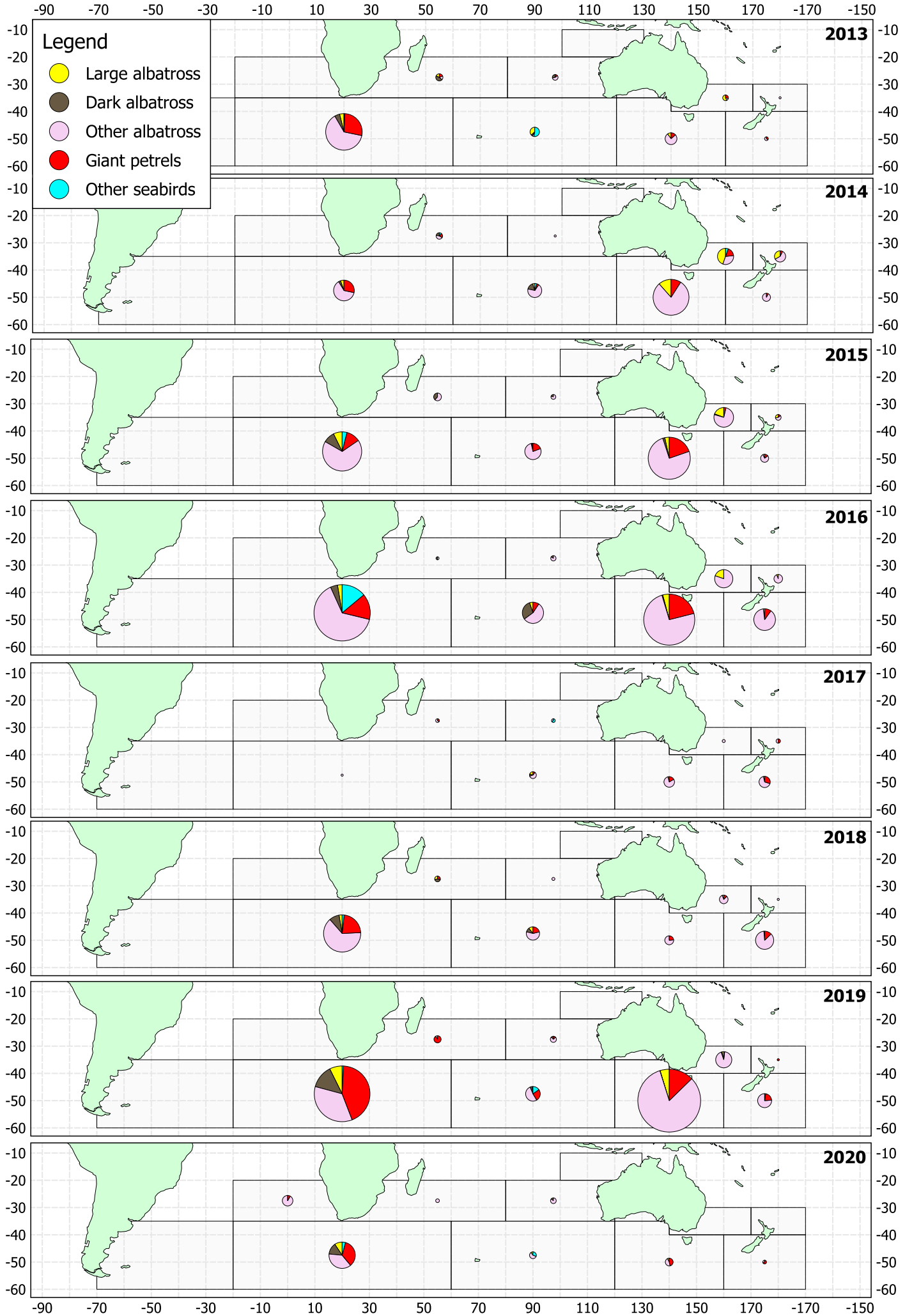
| Year | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 2 | 404 | 28 | 0 | 69 | 0 | 0 | 1 | 23 | 1 | 1 |
| | 4 | 251 | 10 | 0 | 2 | 0 | 2 | 0 | 5 | 0 | 0 |
| | 5 | 1,272 | 65 | 148 | 2 | 0 | 0 | 0 | 9 | 2 | 1 |
| | 6 | 2,547 | 18 | 76 | 28 | 0 | 0 | 0 | 47 | 0 | 0 |
| | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 429 | 16 | 42 | 20 | 0 | 1 | 3 | 8 | 3 | 1 |
| | 9 | 4,862 | 132 | 628 | 123 | 0 | 16 | 5 | 74 | 20 | 220 |
| | 14 | 51 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2010 Total*** | ***9,816*** | ***302*** | ***894*** | ***244*** | ***0*** | ***19*** | ***9*** | ***166*** | ***26*** | ***223*** |
| **2011** | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 247 | 59 | 0 | 22 | 0 | 13 | 0 | 8 | 6 | 33 |
| | 5 | 1,152 | 172 | 243 | 16 | 0 | 9 | 0 | 4 | 0 | 1 |
| | 6 | 2,357 | 18 | 60 | 60 | 0 | 0 | 0 | 11 | 1 | 0 |
| | 7 | 334 | 23 | 22 | 6 | 0 | 1 | 0 | 44 | 11 | 20 |
| | 8 | 1,321 | 14 | 177 | 0 | 0 | 4 | 1 | 101 | 12 | 33 |
| | 9 | 1,927 | 131 | 115 | 77 | 0 | 11 | 3 | 76 | 7 | 12 |
| | ***2011 Total*** | ***7,338*** | ***417*** | ***617*** | ***181*** | ***0*** | ***38*** | ***4*** | ***244*** | ***37*** | ***99*** |
| **2012** | 2 | 1,435 | 10 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 |
| | 4 | 29 | 90 | 0 | 7 | 0 | 3 | 0 | 3 | 1 | 3 |
| | 5 | 1,880 | 96 | 125 | 2 | 0 | 3 | 0 | 8 | 3 | 0 |
| | 6 | 6,254 | 33 | 141 | 90 | 0 | 0 | 0 | 26 | 0 | 0 |
| | 7 | 40 | 5 | 2 | 0 | 0 | 1 | 0 | 5 | 3 | 3 |
| | 8 | 928 | 3 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 2,772 | 289 | 426 | 15 | 0 | 9 | 7 | 45 | 21 | 7 |
| | 14 | 930 | 73 | 0 | 0 | 0 | 0 | 0 | 10 | 1 | 1 |
| | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2012 Total*** | ***14,268*** | ***599*** | ***704*** | ***116*** | ***0*** | ***16*** | ***7*** | ***113*** | ***29*** | ***14*** |
| **2013** | 2 | 749 | 21 | 1 | 60 | 0 | 0 | 2 | 16 | 1 | 0 |
| | 4 | 210 | 30 | 1 | 4 | 0 | 4 | 0 | 1 | 2 | 0 |
| | 5 | 818 | 38 | 50 | 4 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 6 | 3,948 | 45 | 71 | 92 | 0 | 0 | 0 | 2 | 1 | 0 |
| | 7 | 16 | 18 | 5 | 2 | 0 | 3 | 0 | 23 | 4 | 0 |
| | 8 | 721 | 36 | 54 | 26 | 0 | 7 | 1 | 2 | 0 | 10 |
| | 9 | 1,797 | 95 | 686 | 16 | 0 | 11 | 13 | 196 | 79 | 23 |
| | 14 | 558 | 151 | 0 | 51 | 0 | 2 | 5 | 3 | 2 | 0 |
| | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2013 Total*** | ***8,817*** | ***434*** | ***868*** | ***255*** | ***0*** | ***27*** | ***21*** | ***244*** | ***89*** | ***33*** |
| **2014** | 2 | 1,023 | 27 | 3 | 17 | 0 | 0 | 0 | 5 | 0 | 0 |
| | 4 | 537 | 141 | 1 | 51 | 0 | 25 | 0 | 18 | 10 | 7 |
| | 5 | 333 | 109 | 68 | 39 | 0 | 9 | 0 | 16 | 2 | 0 |
| | 6 | 2,425 | 51 | 280 | 142 | 0 | 0 | 0 | 20 | 1 | 0 |
| | 7 | 501 | 16 | 85 | 10 | 0 | 32 | 0 | 223 | 25 | 21 |
| | 8 | 1,612 | 57 | 302 | 96 | 0 | 2 | 7 | 31 | 2 | 2 |
| | 9 | 1,331 | 392 | 105 | 30 | 0 | 5 | 3 | 107 | 26 | 33 |
| | 14 | 656 | 96 | 0 | 185 | 0 | 0 | 2 | 7 | 2 | 1 |
| | 15 | 68 | 462 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2014 Total*** | ***8,486*** | ***1,351*** | ***844*** | ***570*** | ***0*** | ***73*** | ***12*** | ***427*** | ***68*** | ***64*** |
| **2015** | 2 | 57 | 20 | 0 | 4 | 0 | 0 | 1 | 4 | 0 | 0 |
| | 4 | 302 | 47 | 26 | 39 | 0 | 16 | 1 | 66 | 3 | 0 |
| | 5 | 700 | 37 | 99 | 9 | 0 | 2 | 0 | 7 | 1 | 0 |
| | 6 | 567 | 27 | 75 | 73 | 0 | 1 | 0 | 11 | 2 | 0 |
| | 7 | 279 | 46 | 102 | 9 | 0 | 13 | 6 | 295 | 75 | 7 |
| | 8 | 1,735 | 34 | 136 | 20 | 0 | 1 | 1 | 76 | 11 | 2 |
| | 9 | 953 | 81 | 171 | 14 | 0 | 24 | 31 | 245 | 38 | 14 |
| | 14 | 280 | 102 | 0 | 9 | 0 | 0 | 5 | 8 | 0 | 0 |
| | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2015 Total*** | ***4,873*** | ***394*** | ***609*** | ***177*** | ***0*** | ***57*** | ***45*** | ***712*** | ***130*** | ***23*** |

| | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2016** | 2 | 262 | 27 | 0 | 1 | 0 | 0 | 1 | 5 | 0 | 0 |
| | 4 | 117 | 30 | 3 | 21 | 0 | 14 | 0 | 72 | 0 | 0 |
| | 5 | 918 | 92 | 233 | 60 | 0 | 1 | 0 | 15 | 0 | 0 |
| | 6 | 326 | 18 | 119 | 6 | 0 | 2 | 0 | 89 | 10 | 0 |
| | 7 | 425 | 37 | 120 | 13 | 0 | 23 | 3 | 681 | 118 | 1 |
| | 8 | 407 | 25 | 13 | 18 | 0 | 5 | 29 | 61 | 9 | 0 |
| | 9 | 2,993 | 79 | 170 | 76 | 0 | 18 | 28 | 456 | 101 | 96 |
| | 14 | 641 | 126 | 0 | 8 | 0 | 0 | 1 | 1 | 0 | 0 |
| | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2016 Total*** | ***6,089*** | ***434*** | ***658*** | ***203*** | ***0*** | ***63*** | ***62*** | ***1,380*** | ***238*** | ***97*** |
| **2017** | 2 | 509 | 38 | 0 | 44 | 0 | 0 | 0 | 1 | 0 | 2 |
| | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 50 | 6 | 0 | 8 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 5 | 713 | 47 | 254 | 14 | 0 | 0 | 0 | 2 | 2 | 0 |
| | 6 | 305 | 16 | 127 | 16 | 0 | 1 | 0 | 20 | 8 | 0 |
| | 7 | 671 | 25 | 24 | 12 | 0 | 1 | 0 | 20 | 4 | 0 |
| | 8 | 906 | 13 | 270 | 42 | 0 | 2 | 1 | 10 | 1 | 0 |
| | 9 | 990 | 278 | 137 | 107 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 242 | 162 | 0 | 11 | 0 | 0 | 0 | 2 | 1 | 0 |
| | 15 | 285 | 144 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2017 Total*** | ***4,671*** | ***729*** | ***812*** | ***254*** | ***0*** | ***4*** | ***1*** | ***58*** | ***16*** | ***2*** |
| **2018** | 2 | 166 | 24 | 0 | 4 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 4 | 236 | 5 | 5 | 2 | 0 | 1 | 0 | 13 | 2 | 0 |
| | 5 | 817 | 64 | 76 | 22 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 6 | 209 | 9 | 94 | 9 | 0 | 1 | 0 | 62 | 9 | 0 |
| | 7 | 242 | 1 | 10 | 2 | 0 | 0 | 0 | 13 | 4 | 0 |
| | 8 | 2,026 | 34 | 145 | 20 | 0 | 4 | 4 | 24 | 8 | 1 |
| | 9 | 2,173 | 202 | 398 | 164 | 0 | 8 | 26 | 195 | 67 | 5 |
| | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 471 | 155 | 0 | 23 | 0 | 2 | 3 | 0 | 2 | 0 |
| | 15 | 827 | 405 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2018 Total*** | ***7,167*** | ***899*** | ***728*** | ***246*** | ***0*** | ***16*** | ***33*** | ***310*** | ***92*** | ***6*** |
| **2019** | 2 | 217 | 38 | 46 | 1 | 0 | 0 | 1 | 6 | 1 | 0 |
| | 4 | 48 | 17 | 1 | 3 | 0 | 2 | 1 | 52 | 1 | 0 |
| | 5 | 411 | 23 | 38 | 4 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 6 | 565 | 14 | 134 | 1 | 0 | 0 | 0 | 33 | 9 | 1 |
| | 7 | 307 | 53 | 80 | 8 | 0 | 40 | 1 | 700 | 108 | 0 |
| | 8 | 1,192 | 50 | 132 | 40 | 0 | 1 | 2 | 29 | 12 | 7 |
| | 9 | 4,256 | 215 | 445 | 101 | 0 | 49 | 90 | 235 | 290 | 5 |
| | 14 | 216 | 31 | 0 | 25 | 0 | 0 | 0 | 2 | 10 | 0 |
| | 15 | 529 | 107 | 6 | 155 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2019 Total*** | ***7,741*** | ***548*** | ***882*** | ***338*** | ***0*** | ***92*** | ***95*** | ***1,057*** | ***432*** | ***13*** |
| **2020** | 2 | 253 | 41 | 11 | 76 | 0 | 0 | 1 | 6 | 0 | 0 |
| | 4 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 383 | 13 | 27 | 8 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 212 | 3 | 40 | 6 | 0 | 0 | 0 | 1 | 2 | 0 |
| | 7 | 178 | 15 | 27 | 1 | 0 | 1 | 0 | 6 | 6 | 0 |
| | 8 | 258 | 3 | 3 | 65 | 0 | 1 | 0 | 6 | 0 | 3 |
| | 9 | 2,540 | 76 | 550 | 65 | 0 | 14 | 21 | 56 | 52 | 6 |
| | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 166 | 32 | 2 | 7 | 0 | 0 | 0 | 3 | 0 | 0 |
| | 15 | 237 | 86 | 0 | 118 | 0 | 0 | 0 | 22 | 2 | 0 |
| | ***2020 Total*** | ***4,228*** | ***271*** | ***660*** | ***347*** | ***1*** | ***16*** | ***22*** | ***100*** | ***62*** | ***9*** |

| | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2021** | 2 | 87 | 27 | 0 | 5 | 0 | 0 | 0 | 3 | 0 | 0 |
| | 4 | 1 | 9 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 154 | 22 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 195 | 2 | 159 | 3 | 0 | 0 | 0 | 17 | 8 | 0 |
| | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 34 | 3 | 0 | 1 | 0 | 0 | 0 | 4 | 3 | 0 |
| | 9 | 17 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 113 | 18 | 0 | 96 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 15 | 502 | 112 | 0 | 60 | 0 | 0 | 0 | 4 | 0 | 0 |
| | ***2021 Total*** | ***1,103*** | ***201*** | ***165*** | ***172*** | ***0*** | ***0*** | ***0*** | ***28*** | ***11*** | ***0*** |
| **2022** | 2 | 398 | 19 | 29 | 2 | 0 | 0 | 0 | 5 | 2 | 0 |
| | 4 | 10 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 176 | 3 | 75 | 1 | 0 | 0 | 0 | 14 | 34 | 0 |
| | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 1,804 | 42 | 446 | 10 | 0 | 10 | 8 | 221 | 13 | 45 |
| | 9 | 360 | 27 | 23 | 44 | 0 | 0 | 7 | 22 | 1 | 3 |
| | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 204 | 25 | 13 | 2 | 0 | 0 | 1 | 2 | 0 | 0 |
| | 15 | 67 | 35 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2022 Total*** | ***3,020*** | ***154*** | ***586*** | ***63*** | ***0*** | ***10*** | ***16*** | ***264*** | ***50*** | ***48*** |
| **2023** | 2 | 574 | 43 | 113 | 0 | 0 | 0 | 5 | 7 | 0 | 1 |
| | 4 | 36 | 4 | 2 | 8 | 0 | 1 | 0 | 0 | 0 | 3 |
| | 5 | 65 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 422 | 1 | 14 | 6 | 0 | 1 | 0 | 21 | 6 | 0 |
| | 7 | 621 | 2 | 131 | 3 | 0 | 0 | 0 | 12 | 9 | 0 |
| | 8 | 2,110 | 62 | 608 | 11 | 0 | 15 | 12 | 112 | 83 | 14 |
| | 9 | 1,720 | 56 | 66 | 378 | 0 | 3 | 13 | 36 | 9 | 8 |
| | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 216 | 42 | 19 | 1 | 0 | 0 | 2 | 10 | 0 | 0 |
| | 15 | 197 | 141 | 0 | 33 | 0 | 0 | 0 | 18 | 2 | 0 |
| | ***2023 Total*** | ***5,961*** | ***352*** | ***955*** | ***441*** | ***0*** | ***20*** | ***32*** | ***216*** | ***109*** | ***26*** |
| **2024** | 2 | 138 | 39 | 16 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 168 | 29 | 1 | 6 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 395 | 2 | 34 | 4 | 0 | 1 | 0 | 10 | 0 | 0 |
| | 8 | 1,795 | 34 | 424 | 9 | 0 | 7 | 0 | 35 | 21 | 1 |
| | 9 | 1,380 | 94 | 78 | 61 | 0 | 5 | 8 | 64 | 18 | 27 |
| | 12 | 116 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 69 | 38 | 1 | 124 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 15 | 1,577 | 386 | 3 | 14 | 0 | 0 | 0 | 16 | 4 | 0 |
| | ***2024 Total*** | ***5,638*** | ***636*** | ***557*** | ***220*** | ***0*** | ***13*** | ***8*** | ***129*** | ***43*** | ***28*** |

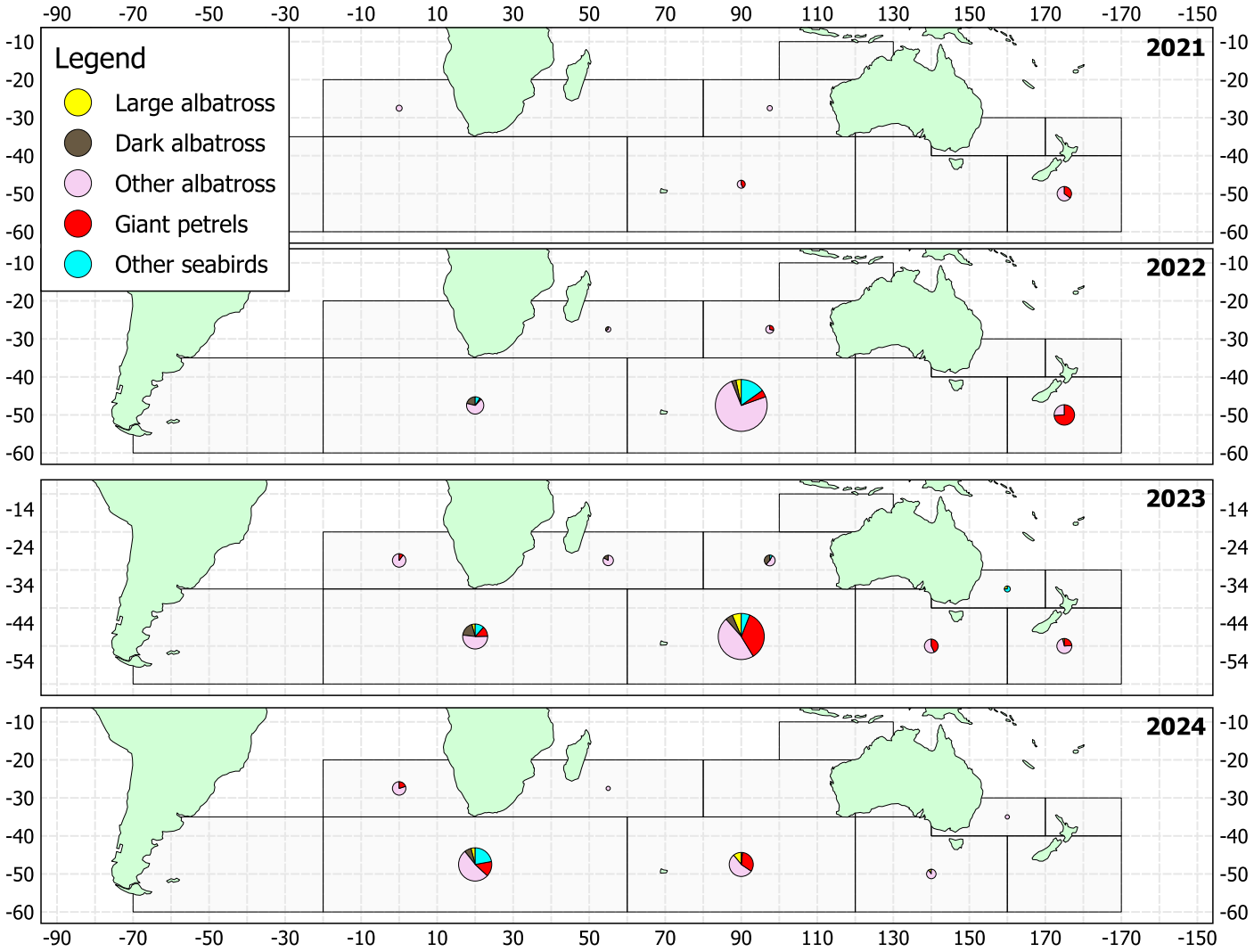
**Observed bird mortalities for the SBT longline fishery** **Attachment H**

Refer to the 'Caveats of the Data' section of the main text before interpreting the results.



**Attachment H**

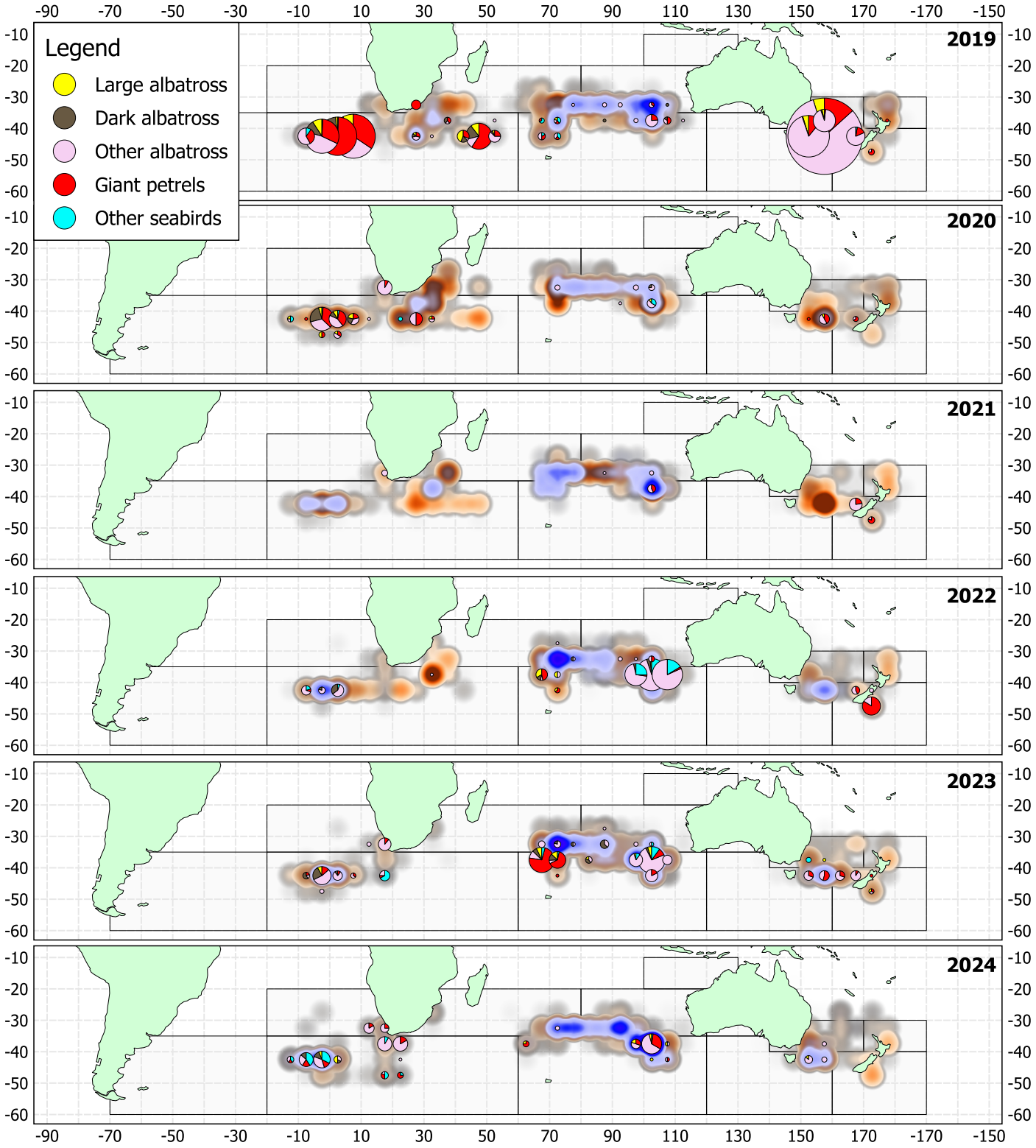
## Observed bird mortalities for the SBT longline fishery



## Observed bird mortalities for the SBT longline fishery (5x5)

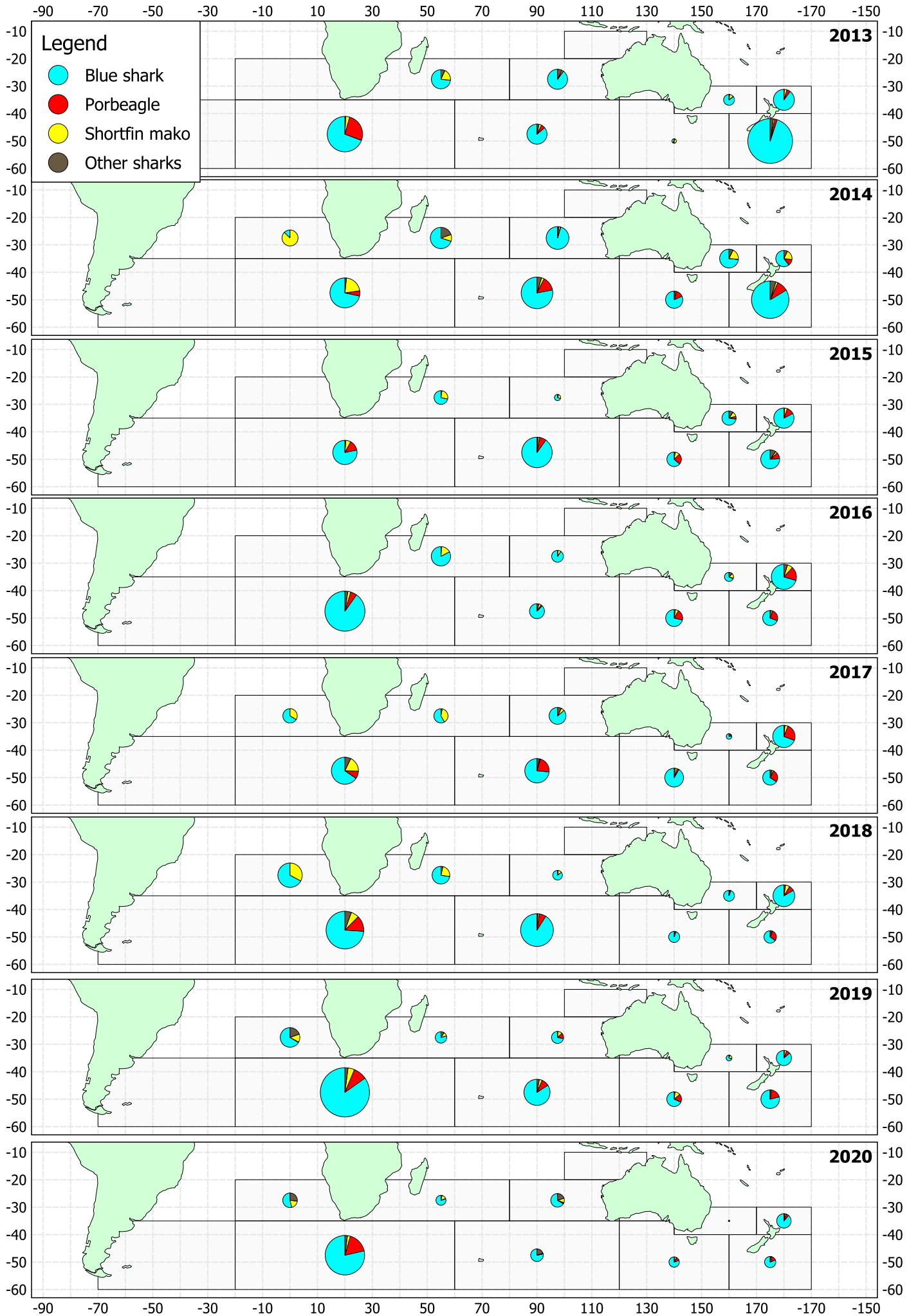
**Attachment I**

The orange heat map represents fishing effort, the blue heat map is observed effort. Refer to the 'Caveats of the Data' section of the main text before interpreting the results.

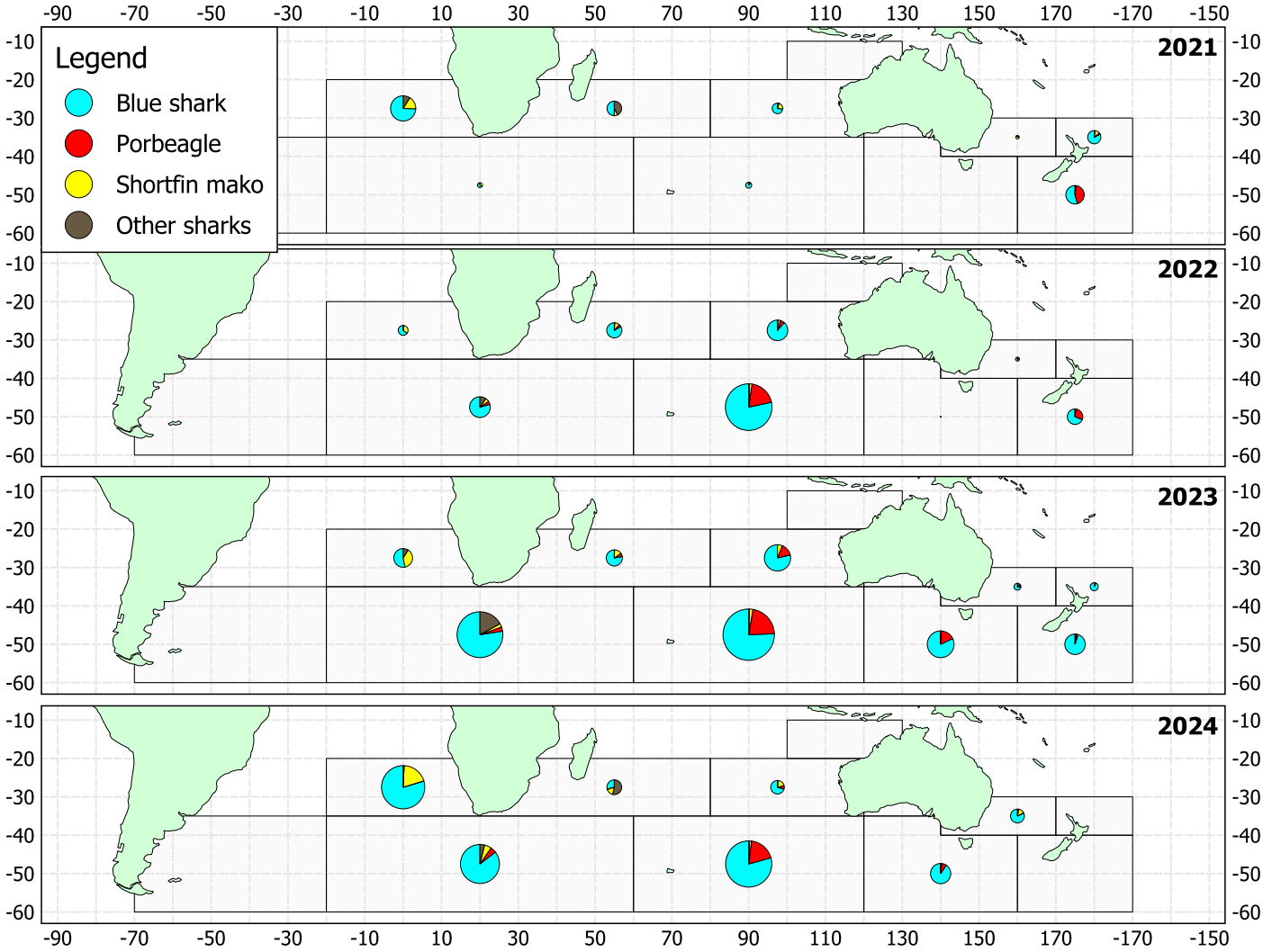


**Observed shark mortalities for the SBT longline fishery** **Attachment J**

Refer to the 'Caveats of the Data' section of the main text before interpreting the results.



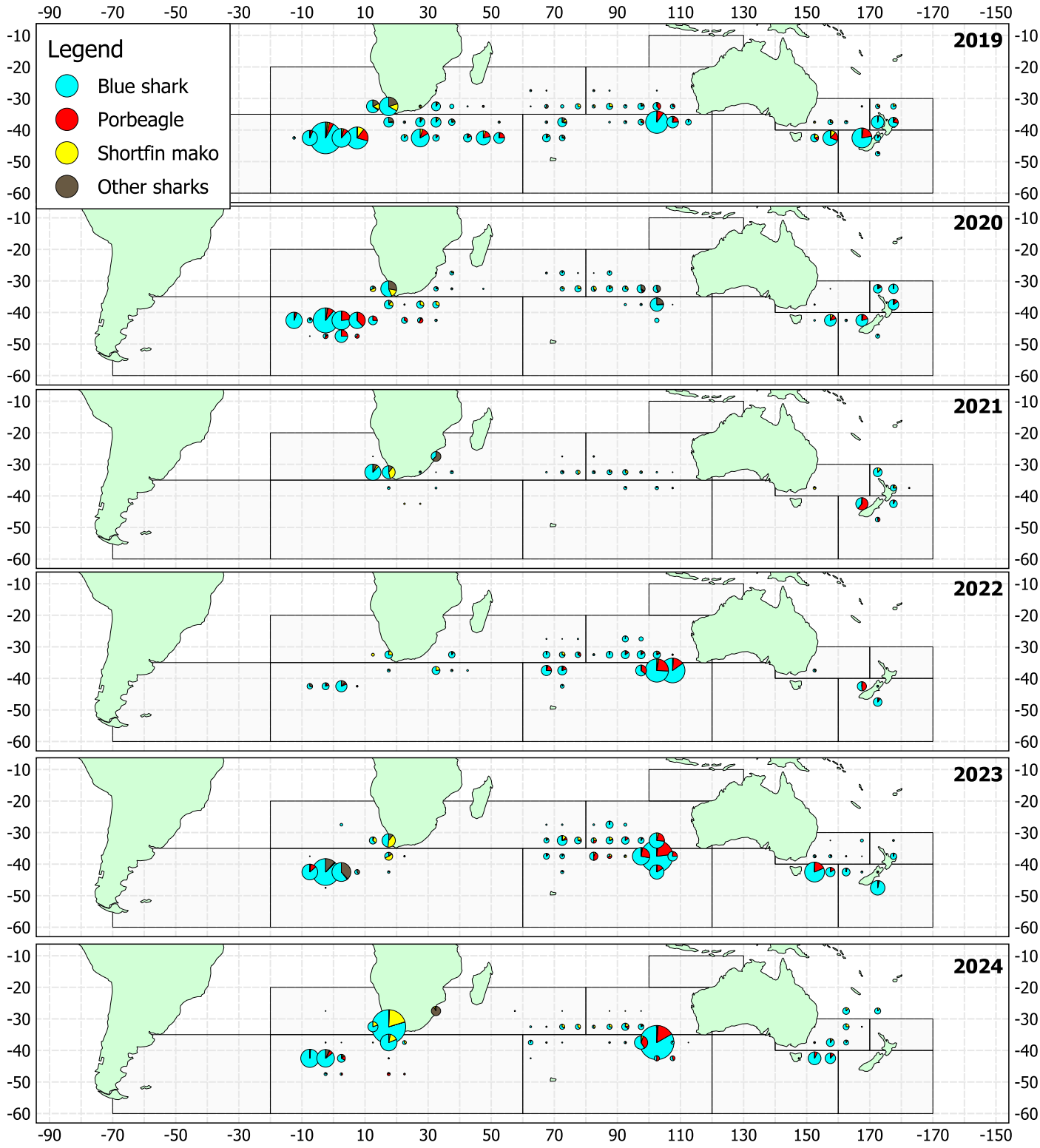
## Observed shark mortalities for the SBT longline fishery



# Observed shark mortalities for the SBT longline fishery (5x5)

**Attachment K**

Refer to the 'Caveats of the Data' section of the main text before interpreting the results.



*Observed captures for the SBT longline fishery by year, statistical area and species/species group (refer to the 'Caveats of the Data' section before interpreting the results).*

| Year | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 2 | 415 | 33 | 0 | 73 | 0 | 0 | 2 | 37 | 2 | 3 |
| | 4 | 629 | 16 | 0 | 4 | 0 | 2 | 0 | 5 | 0 | 0 |
| | 5 | 4,162 | 202 | 258 | 9 | 0 | 0 | 0 | 11 | 2 | 1 |
| | 6 | 2,906 | 18 | 92 | 312 | 0 | 0 | 0 | 82 | 0 | 0 |
| | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 579 | 23 | 57 | 132 | 0 | 1 | 3 | 9 | 3 | 1 |
| | 9 | 5,152 | 136 | 673 | 208 | 1 | 17 | 5 | 77 | 23 | 247 |
| | 14 | 53 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2010 Total*** | ***13,896*** | ***462*** | ***1,080*** | ***738*** | ***1*** | ***20*** | ***10*** | ***221*** | ***30*** | ***252*** |
| **2011** | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 500 | 78 | 0 | 289 | 0 | 13 | 0 | 8 | 6 | 36 |
| | 5 | 3,001 | 436 | 499 | 318 | 4 | 9 | 0 | 4 | 0 | 2 |
| | 6 | 2,729 | 18 | 83 | 407 | 0 | 0 | 0 | 27 | 1 | 1 |
| | 7 | 566 | 26 | 58 | 28 | 0 | 1 | 0 | 44 | 11 | 21 |
| | 8 | 1,540 | 14 | 280 | 25 | 0 | 4 | 1 | 104 | 12 | 33 |
| | 9 | 2,635 | 147 | 158 | 127 | 0 | 12 | 4 | 76 | 7 | 13 |
| | ***2011 Total*** | ***10,971*** | ***719*** | ***1,078*** | ***1,194*** | ***4*** | ***39*** | ***5*** | ***263*** | ***37*** | ***106*** |
| **2012** | 2 | 1,475 | 11 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 |
| | 4 | 233 | 97 | 1 | 109 | 0 | 3 | 0 | 4 | 1 | 3 |
| | 5 | 4,857 | 190 | 365 | 23 | 0 | 3 | 0 | 8 | 3 | 0 |
| | 6 | 7,797 | 37 | 210 | 546 | 0 | 0 | 0 | 34 | 0 | 0 |
| | 7 | 46 | 5 | 10 | 2 | 0 | 1 | 0 | 6 | 3 | 3 |
| | 8 | 944 | 6 | 58 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 3,789 | 384 | 428 | 82 | 0 | 10 | 8 | 56 | 21 | 11 |
| | 14 | 1,121 | 127 | 0 | 31 | 0 | 0 | 0 | 10 | 1 | 1 |
| | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2012 Total*** | ***20,262*** | ***857*** | ***1,072*** | ***805*** | ***0*** | ***17*** | ***8*** | ***134*** | ***29*** | ***18*** |
| **2013** | 2 | 809 | 21 | 3 | 76 | 0 | 0 | 2 | 21 | 1 | 0 |
| | 4 | 769 | 49 | 1 | 26 | 0 | 4 | 0 | 1 | 2 | 0 |
| | 5 | 4,772 | 118 | 154 | 19 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 6 | 5,149 | 54 | 112 | 600 | 0 | 0 | 0 | 4 | 1 | 0 |
| | 7 | 220 | 30 | 77 | 15 | 0 | 4 | 0 | 30 | 4 | 0 |
| | 8 | 1,155 | 38 | 92 | 64 | 0 | 7 | 1 | 3 | 0 | 14 |
| | 9 | 1,959 | 103 | 774 | 51 | 0 | 13 | 13 | 198 | 81 | 25 |
| | 14 | 751 | 172 | 0 | 109 | 0 | 2 | 5 | 3 | 2 | 0 |
| | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2013 Total*** | ***15,584*** | ***585*** | ***1,213*** | ***960*** | ***0*** | ***30*** | ***21*** | ***262*** | ***91*** | ***39*** |
| **2014** | 2 | 1,129 | 27 | 3 | 24 | 0 | 0 | 0 | 8 | 0 | 1 |
| | 4 | 742 | 160 | 19 | 173 | 0 | 29 | 0 | 21 | 10 | 7 |
| | 5 | 4,497 | 270 | 254 | 197 | 0 | 9 | 0 | 16 | 2 | 1 |
| | 6 | 9,903 | 60 | 517 | 561 | 0 | 1 | 0 | 28 | 1 | 0 |
| | 7 | 1,866 | 42 | 190 | 38 | 0 | 32 | 0 | 241 | 26 | 23 |
| | 8 | 2,600 | 64 | 426 | 408 | 0 | 2 | 8 | 36 | 3 | 2 |
| | 9 | 2,207 | 417 | 167 | 198 | 2 | 7 | 3 | 107 | 28 | 47 |
| | 14 | 860 | 135 | 0 | 263 | 2 | 0 | 2 | 13 | 2 | 1 |
| | 15 | 335 | 462 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2014 Total*** | ***24,139*** | ***1,637*** | ***1,576*** | ***1,877*** | ***4*** | ***80*** | ***13*** | ***470*** | ***72*** | ***82*** |
| **2015** | 2 | 241 | 24 | 0 | 30 | 0 | 0 | 1 | 4 | 0 | 0 |
| | 4 | 2,509 | 178 | 160 | 153 | 1 | 17 | 1 | 73 | 3 | 0 |
| | 5 | 3,082 | 156 | 180 | 17 | 0 | 2 | 0 | 7 | 1 | 0 |
| | 6 | 8,678 | 49 | 292 | 478 | 0 | 2 | 0 | 26 | 2 | 0 |
| | 7 | 2,738 | 138 | 1,268 | 60 | 0 | 14 | 6 | 308 | 76 | 9 |
| | 8 | 5,252 | 38 | 647 | 67 | 0 | 1 | 1 | 76 | 12 | 2 |
| | 9 | 4,819 | 165 | 480 | 379 | 0 | 30 | 31 | 248 | 40 | 16 |
| | 14 | 422 | 163 | 0 | 14 | 0 | 0 | 5 | 11 | 0 | 0 |
| | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2015 Total*** | ***27,741*** | ***911*** | ***3,027*** | ***1,198*** | ***1*** | ***66*** | ***45*** | ***753*** | ***134*** | ***27*** |

| | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2016** | 2 | 363 | 40 | 0 | 125 | 0 | 0 | 1 | 5 | 0 | 0 |
| | 4 | 340 | 72 | 8 | 124 | 0 | 14 | 0 | 72 | 0 | 0 |
| | 5 | 5,098 | 252 | 539 | 232 | 1 | 2 | 0 | 16 | 0 | 0 |
| | 6 | 4,163 | 58 | 320 | 14 | 0 | 3 | 0 | 95 | 12 | 0 |
| | 7 | 2,124 | 85 | 676 | 102 | 1 | 27 | 3 | 688 | 118 | 1 |
| | 8 | 943 | 36 | 154 | 114 | 0 | 5 | 29 | 64 | 9 | 0 |
| | 9 | 3,745 | 107 | 340 | 544 | 0 | 22 | 28 | 472 | 106 | 118 |
| | 14 | 948 | 186 | 0 | 53 | 2 | 0 | 1 | 2 | 0 | 0 |
| | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2016 Total*** | ***17,724*** | ***836*** | ***2,037*** | ***1,308*** | ***4*** | ***73*** | ***62*** | ***1,414*** | ***245*** | ***119*** |
| **2017** | 2 | 569 | 38 | 0 | 65 | 0 | 0 | 0 | 2 | 0 | 3 |
| | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 114 | 14 | 0 | 18 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 5 | 4,695 | 148 | 362 | 40 | 1 | 0 | 0 | 3 | 2 | 0 |
| | 6 | 3,760 | 36 | 272 | 40 | 0 | 2 | 0 | 29 | 8 | 0 |
| | 7 | 1,193 | 38 | 79 | 87 | 0 | 1 | 0 | 21 | 4 | 0 |
| | 8 | 1,175 | 18 | 432 | 68 | 0 | 3 | 1 | 10 | 1 | 0 |
| | 9 | 1,574 | 292 | 153 | 291 | 0 | 0 | 0 | 1 | 0 | 0 |
| | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 587 | 218 | 0 | 130 | 0 | 0 | 0 | 2 | 1 | 0 |
| | 15 | 652 | 147 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2017 Total*** | ***14,319*** | ***949*** | ***1,298*** | ***748*** | ***1*** | ***6*** | ***1*** | ***70*** | ***16*** | ***3*** |
| **2018** | 2 | 246 | 26 | 0 | 19 | 0 | 0 | 0 | 2 | 0 | 0 |
| | 4 | 581 | 15 | 11 | 36 | 0 | 1 | 0 | 14 | 2 | 0 |
| | 5 | 4,648 | 196 | 153 | 49 | 1 | 0 | 0 | 1 | 1 | 1 |
| | 6 | 3,946 | 32 | 261 | 31 | 0 | 3 | 0 | 68 | 9 | 0 |
| | 7 | 563 | 3 | 27 | 27 | 0 | 2 | 0 | 14 | 4 | 0 |
| | 8 | 3,494 | 59 | 229 | 43 | 0 | 4 | 4 | 24 | 8 | 1 |
| | 9 | 2,880 | 213 | 631 | 689 | 0 | 9 | 26 | 197 | 69 | 5 |
| | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 577 | 185 | 0 | 41 | 0 | 2 | 3 | 0 | 2 | 0 |
| | 15 | 1,450 | 411 | 0 | 24 | 2 | 0 | 0 | 0 | 0 | 0 |
| | ***2018 Total*** | ***18,385*** | ***1,140*** | ***1,312*** | ***959*** | ***3*** | ***21*** | ***33*** | ***320*** | ***95*** | ***7*** |
| **2019** | 2 | 540 | 78 | 55 | 6 | 0 | 0 | 1 | 6 | 1 | 0 |
| | 4 | 568 | 32 | 10 | 82 | 0 | 2 | 1 | 53 | 1 | 0 |
| | 5 | 2,156 | 48 | 59 | 48 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 6 | 4,820 | 34 | 220 | 46 | 0 | 0 | 0 | 39 | 13 | 1 |
| | 7 | 1,855 | 143 | 479 | 216 | 1 | 42 | 1 | 886 | 146 | 8 |
| | 8 | 2,424 | 79 | 619 | 132 | 1 | 2 | 2 | 58 | 20 | 7 |
| | 9 | 6,987 | 336 | 1,241 | 1,553 | 0 | 53 | 91 | 374 | 293 | 7 |
| | 14 | 270 | 33 | 7 | 67 | 0 | 0 | 0 | 2 | 10 | 0 |
| | 15 | 1,201 | 123 | 8 | 187 | 2 | 0 | 0 | 0 | 0 | 0 |
| | ***2019 Total*** | ***20,821*** | ***906*** | ***2,698*** | ***2,337*** | ***4*** | ***99*** | ***96*** | ***1,418*** | ***485*** | ***23*** |
| **2020** | 2 | 498 | 167 | 17 | 83 | 0 | 0 | 1 | 6 | 0 | 0 |
| | 4 | 48 | 2 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 1,930 | 47 | 63 | 59 | 1 | 0 | 0 | 1 | 0 | 0 |
| | 6 | 1,708 | 5 | 72 | 6 | 0 | 0 | 0 | 1 | 3 | 0 |
| | 7 | 317 | 18 | 150 | 2 | 0 | 1 | 0 | 6 | 6 | 0 |
| | 8 | 343 | 49 | 42 | 82 | 0 | 1 | 0 | 6 | 0 | 4 |
| | 9 | 3,148 | 93 | 1,087 | 252 | 0 | 21 | 21 | 61 | 56 | 10 |
| | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 190 | 37 | 2 | 42 | 1 | 0 | 0 | 3 | 0 | 0 |
| | 15 | 848 | 104 | 0 | 180 | 32 | 0 | 0 | 24 | 2 | 0 |
| | ***2020 Total*** | ***9,030*** | ***522*** | ***1,433*** | ***729*** | ***34*** | ***23*** | ***22*** | ***108*** | ***67*** | ***14*** |

| | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2021** | 2 | 192 | 30 | 0 | 30 | 0 | 0 | 0 | 3 | 0 | 0 |
| | 4 | 150 | 16 | 0 | 90 | 2 | 0 | 0 | 0 | 0 | 1 |
| | 5 | 856 | 35 | 14 | 20 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 2,908 | 9 | 275 | 8 | 0 | 0 | 0 | 20 | 11 | 1 |
| | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 47 | 3 | 0 | 13 | 0 | 0 | 0 | 4 | 3 | 0 |
| | 9 | 61 | 22 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 141 | 23 | 0 | 116 | 8 | 0 | 0 | 0 | 0 | 0 |
| | 15 | 1,055 | 113 | 0 | 88 | 2 | 0 | 0 | 4 | 0 | 0 |
| | ***2021 Total*** | ***5,410*** | ***251*** | ***289*** | ***368*** | ***13*** | ***0*** | ***0*** | ***31*** | ***14*** | ***2*** |
| **2022** | 2 | 1,069 | 38 | 43 | 10 | 0 | 0 | 0 | 5 | 2 | 0 |
| | 4 | 185 | 4 | 0 | 74 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 2,411 | 4 | 106 | 2 | 0 | 0 | 0 | 16 | 37 | 2 |
| | 7 | 57 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 3,567 | 205 | 931 | 28 | 0 | 10 | 8 | 221 | 15 | 69 |
| | 9 | 2,430 | 49 | 200 | 250 | 0 | 0 | 7 | 24 | 1 | 4 |
| | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 345 | 29 | 37 | 6 | 0 | 0 | 1 | 3 | 0 | 0 |
| | 15 | 247 | 35 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 |
| | ***2022 Total*** | ***10,311*** | ***364*** | ***1,317*** | ***396*** | ***1*** | ***10*** | ***16*** | ***269*** | ***55*** | ***75*** |
| **2023** | 2 | 828 | 52 | 140 | 1 | 0 | 0 | 5 | 7 | 0 | 1 |
| | 4 | 815 | 8 | 4 | 351 | 1 | 1 | 0 | 0 | 0 | 5 |
| | 5 | 149 | 4 | 2 | 18 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 6 | 3,298 | 21 | 78 | 29 | 0 | 11 | 0 | 21 | 7 | 0 |
| | 7 | 2,915 | 29 | 389 | 42 | 0 | 0 | 0 | 14 | 10 | 0 |
| | 8 | 6,554 | 189 | 1,355 | 130 | 0 | 18 | 12 | 113 | 88 | 29 |
| | 9 | 4,144 | 577 | 483 | 563 | 4 | 3 | 13 | 36 | 9 | 12 |
| | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 307 | 42 | 39 | 69 | 0 | 0 | 2 | 10 | 0 | 0 |
| | 15 | 467 | 150 | 1 | 48 | 0 | 0 | 0 | 21 | 2 | 0 |
| | ***2023 Total*** | ***19,477*** | ***1,072*** | ***2,491*** | ***1,251*** | ***5*** | ***33*** | ***32*** | ***222*** | ***116*** | ***48*** |
| **2024** | 2 | 466 | 41 | 25 | 57 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 726 | 47 | 8 | 162 | 1 | 0 | 0 | 2 | 0 | 1 |
| | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 2,371 | 18 | 115 | 199 | 0 | 1 | 0 | 11 | 0 | 0 |
| | 8 | 5,942 | 77 | 1,141 | 167 | 0 | 7 | 0 | 35 | 22 | 2 |
| | 9 | 4,689 | 177 | 268 | 446 | 9 | 5 | 8 | 66 | 18 | 33 |
| | 12 | 135 | 18 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 356 | 51 | 6 | 286 | 4 | 0 | 0 | 2 | 0 | 0 |
| | 15 | 3,148 | 539 | 7 | 86 | 8 | 0 | 0 | 16 | 4 | 0 |
| | ***2024 Total*** | ***17,833*** | ***968*** | ***1,570*** | ***1,404*** | ***22*** | ***13*** | ***8*** | ***132*** | ***44*** | ***36*** |

*Observed catch rates for the SBT longline fishery by year, statistical area and species/species group (refer to the 'Caveats of the Data' section before interpreting the results).*

| Year | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 2 | 0.212 | 0.017 | 0.000 | 0.037 | 0.000 | 0.000 | 0.001 | 0.019 | 0.001 | 0.002 |
| | 4 | 9.569 | 0.243 | 0.000 | 0.061 | 0.000 | 0.030 | 0.000 | 0.076 | 0.000 | 0.000 |
| | 5 | 47.539 | 2.307 | 2.947 | 0.103 | 0.000 | 0.000 | 0.000 | 0.126 | 0.023 | 0.011 |
| | 6 | 7.130 | 0.044 | 0.226 | 0.766 | 0.000 | 0.000 | 0.000 | 0.201 | 0.000 | 0.000 |
| | 8 | 0.941 | 0.037 | 0.093 | 0.215 | 0.000 | 0.002 | 0.005 | 0.015 | 0.005 | 0.002 |
| | 9 | 4.471 | 0.118 | 0.584 | 0.181 | 0.001 | 0.015 | 0.004 | 0.067 | 0.020 | 0.214 |
| | 14 | 0.519 | 0.333 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **2011** | 4 | 2.616 | 0.408 | 0.000 | 1.512 | 0.000 | 0.068 | 0.000 | 0.042 | 0.031 | 0.188 |
| | 5 | 17.694 | 2.571 | 2.942 | 1.875 | 0.024 | 0.053 | 0.000 | 0.024 | 0.000 | 0.012 |
| | 6 | 7.470 | 0.049 | 0.227 | 1.114 | 0.000 | 0.000 | 0.000 | 0.074 | 0.003 | 0.003 |
| | 7 | 3.862 | 0.177 | 0.396 | 0.191 | 0.000 | 0.007 | 0.000 | 0.300 | 0.075 | 0.143 |
| | 8 | 2.614 | 0.024 | 0.475 | 0.042 | 0.000 | 0.007 | 0.002 | 0.177 | 0.020 | 0.056 |
| | 9 | 2.472 | 0.138 | 0.148 | 0.119 | 0.000 | 0.011 | 0.004 | 0.071 | 0.007 | 0.012 |
| **2012** | 2 | 2.368 | 0.018 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.026 | 0.000 | 0.000 |
| | 4 | 0.761 | 0.317 | 0.003 | 0.356 | 0.000 | 0.010 | 0.000 | 0.013 | 0.003 | 0.010 |
| | 5 | 52.489 | 2.053 | 3.944 | 0.249 | 0.000 | 0.032 | 0.000 | 0.086 | 0.032 | 0.000 |
| | 6 | 15.650 | 0.074 | 0.422 | 1.096 | 0.000 | 0.000 | 0.000 | 0.068 | 0.000 | 0.000 |
| | 7 | 0.418 | 0.045 | 0.091 | 0.018 | 0.000 | 0.009 | 0.000 | 0.054 | 0.027 | 0.027 |
| | 8 | 3.373 | 0.021 | 0.207 | 0.043 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | 9 | 2.355 | 0.239 | 0.266 | 0.051 | 0.000 | 0.006 | 0.005 | 0.035 | 0.013 | 0.007 |
| | 14 | 2.341 | 0.265 | 0.000 | 0.065 | 0.000 | 0.000 | 0.000 | 0.021 | 0.002 | 0.002 |
| **2013** | 2 | 0.836 | 0.022 | 0.003 | 0.078 | 0.000 | 0.000 | 0.002 | 0.022 | 0.001 | 0.000 |
| | 4 | 3.852 | 0.245 | 0.005 | 0.130 | 0.000 | 0.020 | 0.000 | 0.005 | 0.010 | 0.000 |
| | 5 | 57.765 | 1.428 | 1.864 | 0.230 | 0.000 | 0.000 | 0.000 | 0.024 | 0.000 | 0.000 |
| | 6 | 14.737 | 0.155 | 0.321 | 1.717 | 0.000 | 0.000 | 0.000 | 0.011 | 0.003 | 0.000 |
| | 7 | 0.970 | 0.132 | 0.339 | 0.066 | 0.000 | 0.018 | 0.000 | 0.132 | 0.018 | 0.000 |
| | 8 | 2.097 | 0.069 | 0.167 | 0.116 | 0.000 | 0.013 | 0.002 | 0.005 | 0.000 | 0.025 |
| | 9 | 1.568 | 0.082 | 0.620 | 0.041 | 0.000 | 0.010 | 0.010 | 0.158 | 0.065 | 0.020 |
| | 14 | 0.621 | 0.142 | 0.000 | 0.090 | 0.000 | 0.002 | 0.004 | 0.002 | 0.002 | 0.000 |
| **2014** | 2 | 1.094 | 0.026 | 0.003 | 0.023 | 0.000 | 0.000 | 0.000 | 0.008 | 0.000 | 0.001 |
| | 4 | 2.955 | 0.637 | 0.076 | 0.689 | 0.000 | 0.115 | 0.000 | 0.084 | 0.040 | 0.028 |
| | 5 | 21.157 | 1.270 | 1.195 | 0.927 | 0.000 | 0.042 | 0.000 | 0.075 | 0.009 | 0.005 |
| | 6 | 16.816 | 0.102 | 0.878 | 0.953 | 0.000 | 0.002 | 0.000 | 0.048 | 0.002 | 0.000 |
| | 7 | 4.384 | 0.099 | 0.446 | 0.089 | 0.000 | 0.075 | 0.000 | 0.566 | 0.061 | 0.054 |
| | 8 | 2.664 | 0.066 | 0.437 | 0.418 | 0.000 | 0.002 | 0.008 | 0.037 | 0.003 | 0.002 |
| | 9 | 2.840 | 0.537 | 0.215 | 0.255 | 0.003 | 0.009 | 0.004 | 0.138 | 0.036 | 0.060 |
| | 14 | 0.779 | 0.122 | 0.000 | 0.238 | 0.002 | 0.000 | 0.002 | 0.012 | 0.002 | 0.001 |
| **2015** | 2 | 0.381 | 0.038 | 0.000 | 0.047 | 0.000 | 0.000 | 0.002 | 0.006 | 0.000 | 0.000 |
| | 4 | 7.610 | 0.540 | 0.485 | 0.464 | 0.003 | 0.052 | 0.003 | 0.221 | 0.009 | 0.000 |
| | 5 | 14.744 | 0.746 | 0.861 | 0.081 | 0.000 | 0.010 | 0.000 | 0.033 | 0.005 | 0.000 |
| | 6 | 16.580 | 0.094 | 0.558 | 0.913 | 0.000 | 0.004 | 0.000 | 0.050 | 0.004 | 0.000 |
| | 7 | 6.309 | 0.318 | 2.922 | 0.138 | 0.000 | 0.032 | 0.014 | 0.710 | 0.175 | 0.021 |
| | 8 | 5.576 | 0.040 | 0.687 | 0.071 | 0.000 | 0.001 | 0.001 | 0.081 | 0.013 | 0.002 |
| | 9 | 3.654 | 0.125 | 0.364 | 0.287 | 0.000 | 0.023 | 0.024 | 0.188 | 0.030 | 0.012 |
| | 14 | 0.460 | 0.178 | 0.000 | 0.015 | 0.000 | 0.000 | 0.005 | 0.012 | 0.000 | 0.000 |

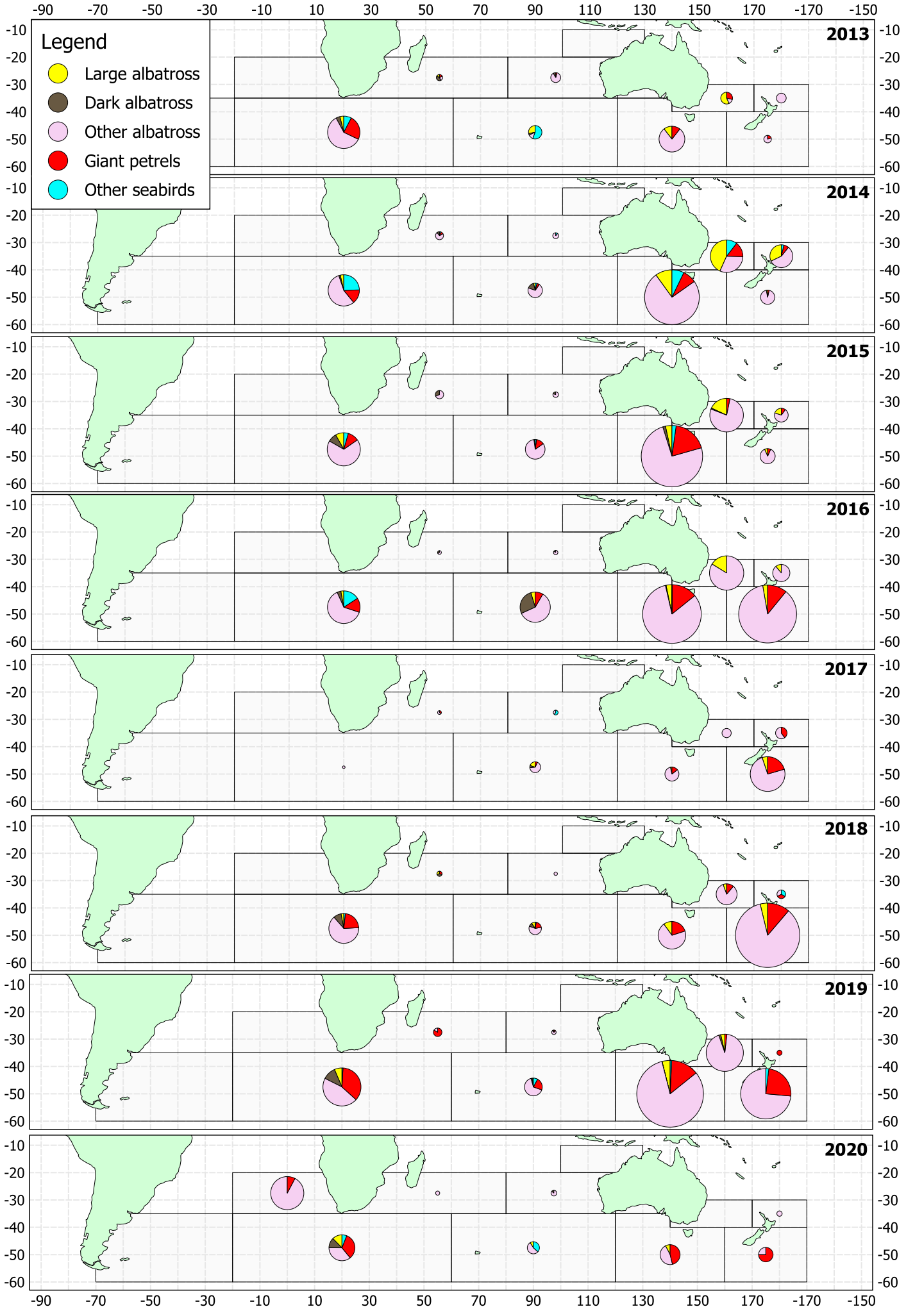
| | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2016** | 2 | 0.297 | 0.033 | 0.000 | 0.102 | 0.000 | 0.000 | 0.001 | 0.004 | 0.000 | 0.000 |
| | 4 | 1.490 | 0.283 | 0.031 | 0.576 | 0.000 | 0.048 | 0.000 | 0.248 | 0.000 | 0.000 |
| | 5 | 21.051 | 1.041 | 2.226 | 0.958 | 0.004 | 0.008 | 0.000 | 0.066 | 0.000 | 0.000 |
| | 6 | 32.040 | 0.446 | 2.463 | 0.108 | 0.000 | 0.023 | 0.000 | 0.731 | 0.092 | 0.000 |
| | 7 | 2.472 | 0.089 | 0.725 | 0.162 | 0.001 | 0.028 | 0.003 | 0.715 | 0.123 | 0.001 |
| | 8 | 2.036 | 0.078 | 0.333 | 0.246 | 0.000 | 0.011 | 0.063 | 0.138 | 0.019 | 0.000 |
| | 9 | 1.346 | 0.038 | 0.122 | 0.195 | 0.000 | 0.008 | 0.010 | 0.170 | 0.038 | 0.042 |
| | 14 | 1.144 | 0.224 | 0.000 | 0.064 | 0.002 | 0.000 | 0.001 | 0.002 | 0.000 | 0.000 |
| **2017** | 2 | 0.657 | 0.044 | 0.000 | 0.075 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 | 0.003 |
| | 4 | 5.877 | 0.332 | 0.011 | 1.458 | 0.011 | 0.000 | 0.000 | 0.021 | 0.000 | 0.000 |
| | 5 | 31.473 | 0.992 | 2.427 | 0.268 | 0.007 | 0.000 | 0.000 | 0.020 | 0.013 | 0.000 |
| | 6 | 29.376 | 0.281 | 2.125 | 0.313 | 0.000 | 0.016 | 0.000 | 0.227 | 0.063 | 0.000 |
| | 7 | 2.569 | 0.076 | 0.157 | 0.372 | 0.000 | 0.002 | 0.000 | 0.041 | 0.007 | 0.000 |
| | 8 | 2.332 | 0.036 | 0.857 | 0.135 | 0.000 | 0.006 | 0.002 | 0.020 | 0.002 | 0.000 |
| | 9 | 2.798 | 0.519 | 0.272 | 0.517 | 0.000 | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 |
| | 14 | 0.713 | 0.265 | 0.000 | 0.158 | 0.000 | 0.000 | 0.000 | 0.002 | 0.001 | 0.000 |
| **2018** | 2 | 0.376 | 0.040 | 0.000 | 0.029 | 0.000 | 0.000 | 0.000 | 0.003 | 0.000 | 0.000 |
| | 4 | 5.928 | 0.202 | 0.067 | 0.630 | 0.000 | 0.006 | 0.000 | 0.092 | 0.012 | 0.000 |
| | 5 | 29.498 | 1.244 | 0.971 | 0.311 | 0.006 | 0.000 | 0.000 | 0.006 | 0.006 | 0.006 |
| | 6 | 51.528 | 0.418 | 3.408 | 0.405 | 0.000 | 0.039 | 0.000 | 0.888 | 0.118 | 0.000 |
| | 7 | 5.579 | 0.029 | 0.259 | 0.269 | 0.000 | 0.019 | 0.000 | 0.134 | 0.038 | 0.000 |
| | 8 | 3.321 | 0.056 | 0.218 | 0.041 | 0.000 | 0.004 | 0.004 | 0.023 | 0.008 | 0.001 |
| | 9 | 2.117 | 0.157 | 0.464 | 0.507 | 0.000 | 0.007 | 0.019 | 0.145 | 0.051 | 0.004 |
| | 14 | 0.560 | 0.180 | 0.000 | 0.040 | 0.000 | 0.002 | 0.003 | 0.000 | 0.002 | 0.000 |
| | 15 | 20.759 | 5.884 | 0.000 | 0.344 | 0.029 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **2019** | 2 | 0.349 | 0.050 | 0.036 | 0.004 | 0.000 | 0.000 | 0.001 | 0.004 | 0.001 | 0.000 |
| | 4 | 3.483 | 0.196 | 0.061 | 0.503 | 0.000 | 0.012 | 0.006 | 0.325 | 0.006 | 0.000 |
| | 5 | 14.039 | 0.313 | 0.384 | 0.313 | 0.000 | 0.000 | 0.000 | 0.000 | 0.007 | 0.000 |
| | 6 | 58.123 | 0.410 | 2.653 | 0.555 | 0.000 | 0.000 | 0.000 | 0.470 | 0.157 | 0.012 |
| | 7 | 1.925 | 0.148 | 0.497 | 0.224 | 0.001 | 0.044 | 0.001 | 0.919 | 0.151 | 0.008 |
| | 8 | 2.172 | 0.071 | 0.555 | 0.118 | 0.001 | 0.002 | 0.002 | 0.052 | 0.018 | 0.006 |
| | 9 | 3.123 | 0.150 | 0.555 | 0.694 | 0.000 | 0.024 | 0.041 | 0.167 | 0.131 | 0.003 |
| | 14 | 0.411 | 0.050 | 0.011 | 0.102 | 0.000 | 0.000 | 0.000 | 0.003 | 0.015 | 0.000 |
| | 15 | 18.437 | 1.888 | 0.123 | 2.871 | 0.031 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **2020** | 2 | 0.585 | 0.196 | 0.020 | 0.098 | 0.000 | 0.000 | 0.001 | 0.007 | 0.000 | 0.000 |
| | 4 | 1.621 | 0.068 | 0.000 | 0.777 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | 5 | 13.866 | 0.338 | 0.453 | 0.424 | 0.007 | 0.000 | 0.000 | 0.007 | 0.000 | 0.000 |
| | 6 | 22.643 | 0.066 | 0.954 | 0.080 | 0.000 | 0.000 | 0.000 | 0.013 | 0.040 | 0.000 |
| | 7 | 2.448 | 0.139 | 1.158 | 0.015 | 0.000 | 0.008 | 0.000 | 0.046 | 0.046 | 0.000 |
| | 8 | 1.162 | 0.166 | 0.142 | 0.278 | 0.000 | 0.003 | 0.000 | 0.020 | 0.000 | 0.014 |
| | 9 | 3.170 | 0.094 | 1.095 | 0.254 | 0.000 | 0.021 | 0.021 | 0.061 | 0.056 | 0.010 |
| | 14 | 0.275 | 0.054 | 0.003 | 0.061 | 0.001 | 0.000 | 0.000 | 0.004 | 0.000 | 0.000 |
| | 15 | 9.044 | 1.109 | 0.000 | 1.920 | 0.341 | 0.000 | 0.000 | 0.256 | 0.021 | 0.000 |

| | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2021** | 2 | 0.292 | 0.046 | 0.000 | 0.046 | 0.000 | 0.000 | 0.000 | 0.005 | 0.000 | 0.000 |
| | 4 | 2.408 | 0.257 | 0.000 | 1.445 | 0.032 | 0.000 | 0.000 | 0.000 | 0.000 | 0.016 |
| | 5 | 26.141 | 1.069 | 0.428 | 0.611 | 0.031 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | 6 | 39.766 | 0.123 | 3.761 | 0.109 | 0.000 | 0.000 | 0.000 | 0.273 | 0.150 | 0.014 |
| | 8 | 0.323 | 0.021 | 0.000 | 0.089 | 0.000 | 0.000 | 0.000 | 0.028 | 0.021 | 0.000 |
| | 9 | 1.297 | 0.468 | 0.000 | 0.064 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | 14 | 0.389 | 0.064 | 0.000 | 0.320 | 0.022 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | 15 | 26.418 | 2.830 | 0.000 | 2.204 | 0.050 | 0.000 | 0.000 | 0.100 | 0.000 | 0.000 |
| **2022** | 2 | 1.560 | 0.055 | 0.063 | 0.015 | 0.000 | 0.000 | 0.000 | 0.007 | 0.003 | 0.000 |
| | 4 | 3.588 | 0.078 | 0.000 | 1.435 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | 6 | 52.688 | 0.087 | 2.316 | 0.044 | 0.000 | 0.000 | 0.000 | 0.350 | 0.809 | 0.044 |
| | 8 | 3.040 | 0.175 | 0.793 | 0.024 | 0.000 | 0.009 | 0.007 | 0.188 | 0.013 | 0.059 |
| | 9 | 2.930 | 0.059 | 0.241 | 0.301 | 0.000 | 0.000 | 0.008 | 0.029 | 0.001 | 0.005 |
| | 14 | 0.364 | 0.031 | 0.039 | 0.006 | 0.000 | 0.000 | 0.001 | 0.003 | 0.000 | 0.000 |
| | 15 | 14.500 | 2.055 | 0.000 | 0.822 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| **2023** | 2 | 1.032 | 0.065 | 0.174 | 0.001 | 0.000 | 0.000 | 0.006 | 0.009 | 0.000 | 0.001 |
| | 4 | 8.549 | 0.084 | 0.042 | 3.682 | 0.010 | 0.010 | 0.000 | 0.000 | 0.000 | 0.052 |
| | 5 | 10.720 | 0.288 | 0.144 | 1.295 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.072 |
| | 6 | 26.016 | 0.166 | 0.615 | 0.229 | 0.000 | 0.087 | 0.000 | 0.166 | 0.055 | 0.000 |
| | 7 | 6.797 | 0.068 | 0.907 | 0.098 | 0.000 | 0.000 | 0.000 | 0.033 | 0.023 | 0.000 |
| | 8 | 2.485 | 0.072 | 0.514 | 0.049 | 0.000 | 0.007 | 0.005 | 0.043 | 0.033 | 0.011 |
| | 9 | 5.524 | 0.769 | 0.644 | 0.751 | 0.005 | 0.004 | 0.017 | 0.048 | 0.012 | 0.016 |
| | 14 | 0.288 | 0.039 | 0.037 | 0.065 | 0.000 | 0.000 | 0.002 | 0.009 | 0.000 | 0.000 |
| | 15 | 9.767 | 3.137 | 0.021 | 1.004 | 0.000 | 0.000 | 0.000 | 0.439 | 0.042 | 0.000 |
| **2024** | 2 | 0.436 | 0.038 | 0.023 | 0.053 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | 4 | 2.747 | 0.178 | 0.030 | 0.613 | 0.004 | 0.000 | 0.000 | 0.008 | 0.000 | 0.004 |
| | 7 | 5.383 | 0.041 | 0.261 | 0.452 | 0.000 | 0.002 | 0.000 | 0.025 | 0.000 | 0.000 |
| | 8 | 2.278 | 0.030 | 0.437 | 0.064 | 0.000 | 0.003 | 0.000 | 0.013 | 0.008 | 0.001 |
| | 9 | 4.093 | 0.155 | 0.234 | 0.389 | 0.008 | 0.004 | 0.007 | 0.058 | 0.016 | 0.029 |
| | 14 | 0.422 | 0.061 | 0.007 | 0.339 | 0.005 | 0.000 | 0.000 | 0.002 | 0.000 | 0.000 |
| | 15 | 24.986 | 4.278 | 0.056 | 0.683 | 0.063 | 0.000 | 0.000 | 0.127 | 0.032 | 0.000 |

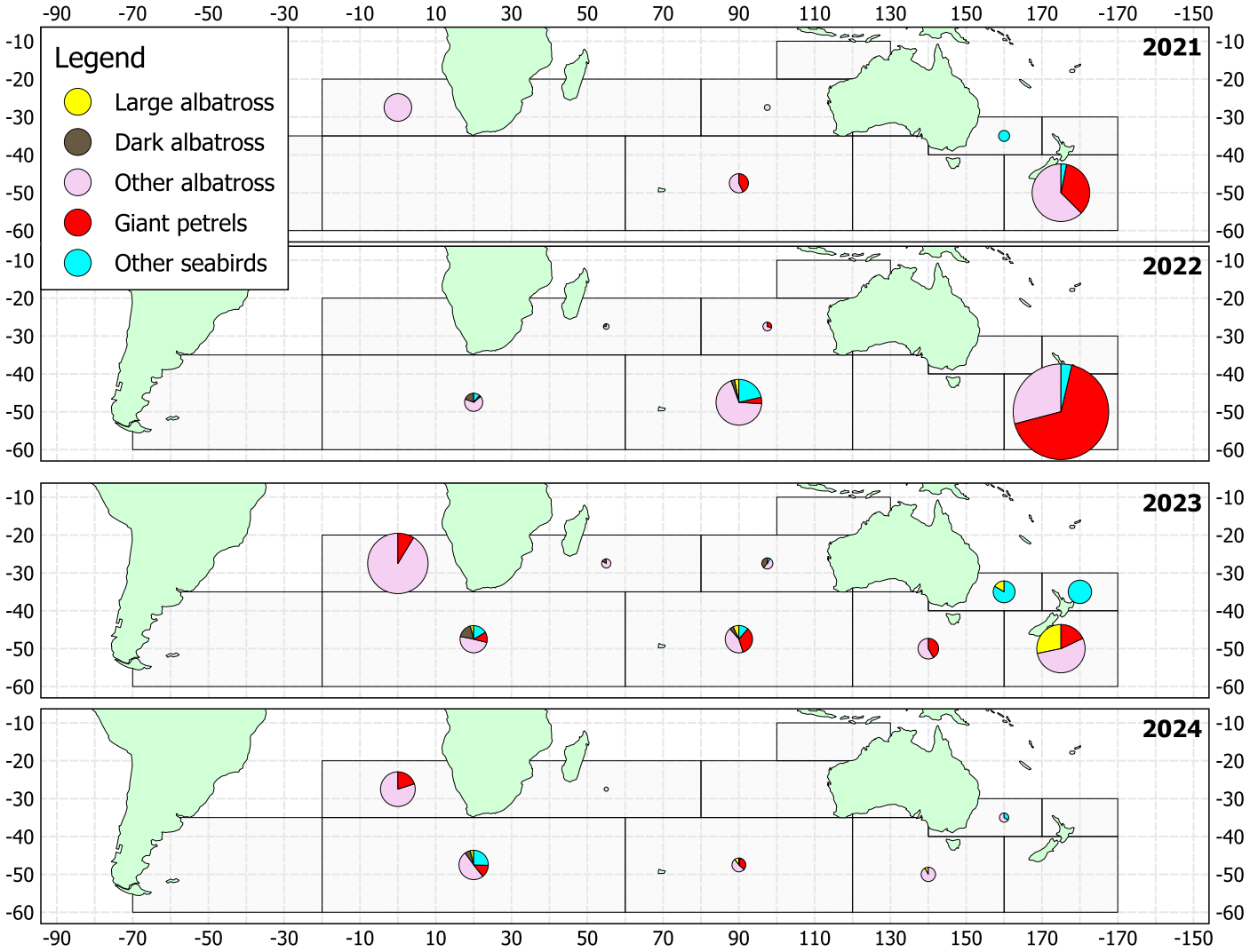
# Observed bird capture rates for the SBT longline fishery

**Attachment N**

Refer to the 'Caveats of the Data' section of the main text before interpreting the results.



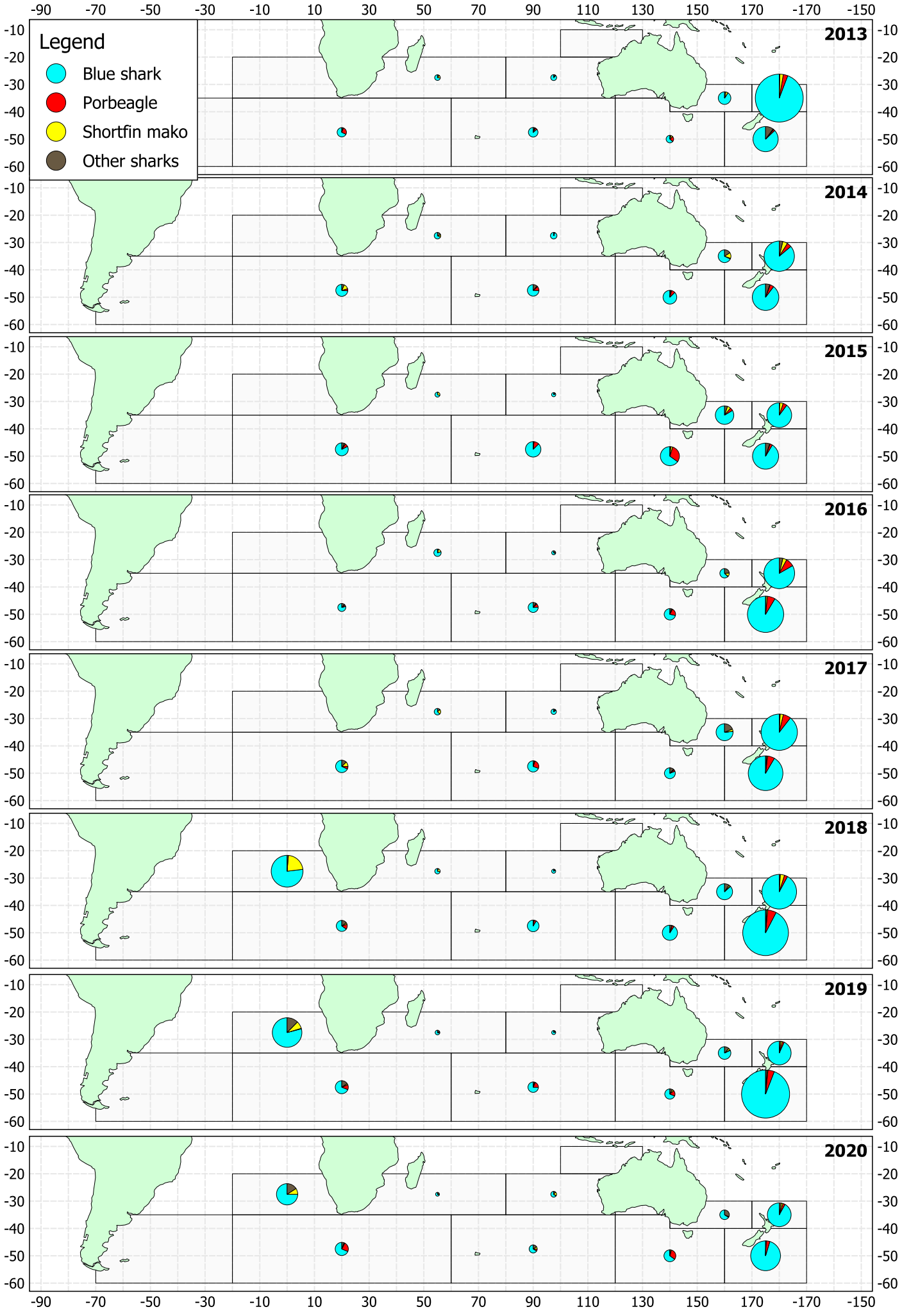
## Observed bird capture rates for the SBT longline fishery



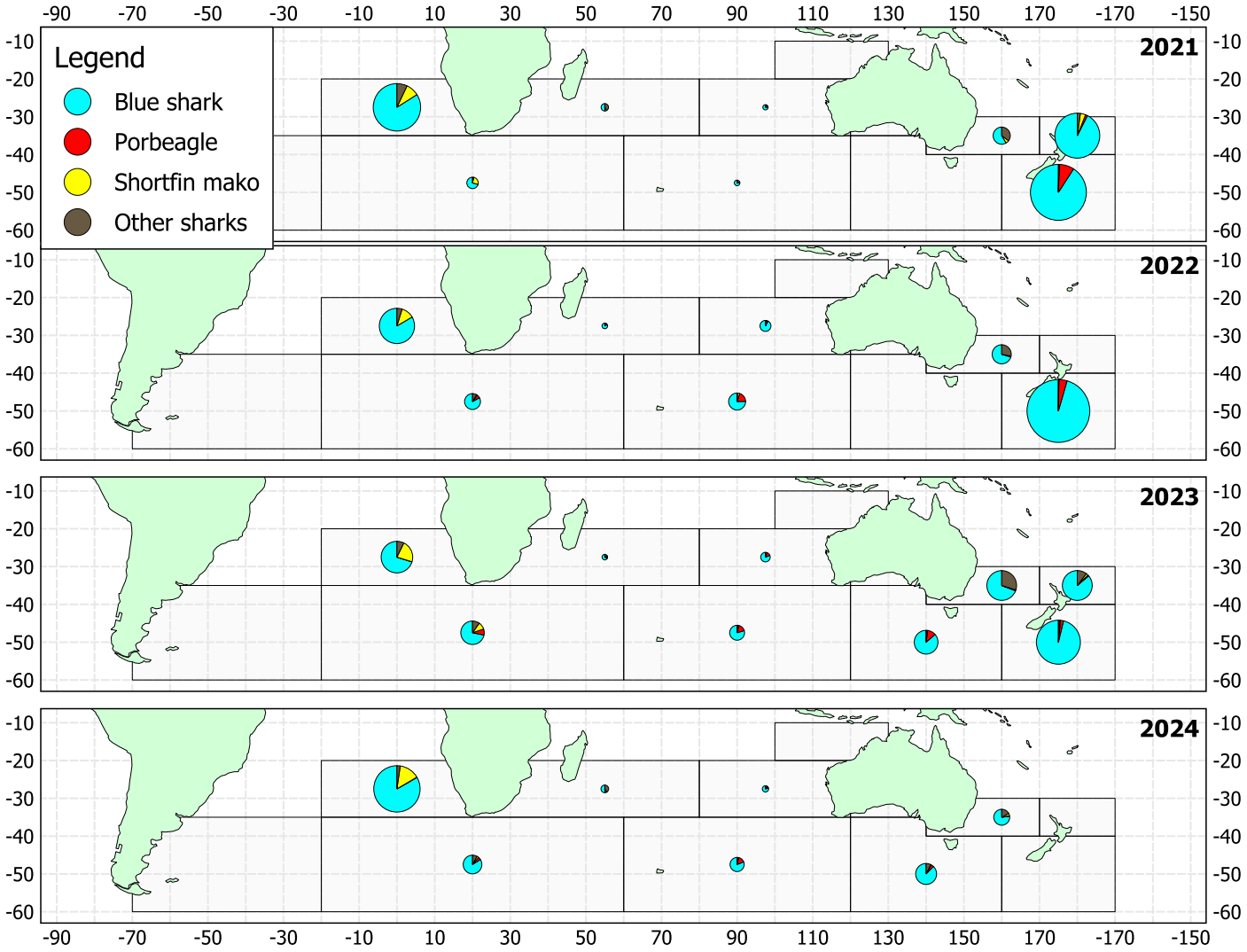
# Observed shark capture rates for the SBT longline fishery

**Attachment O**

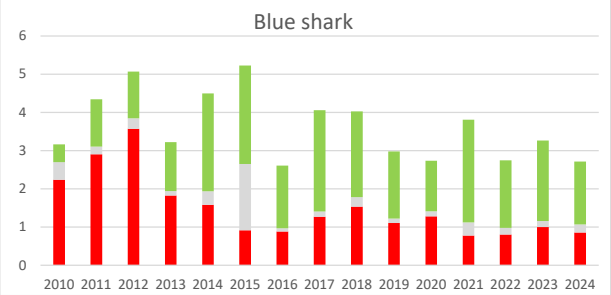
Refer to the 'Caveats of the Data' section of the main text before interpreting the results.

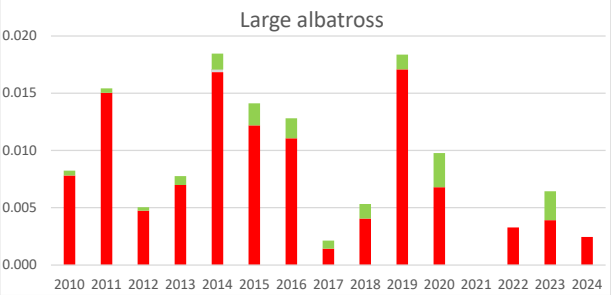


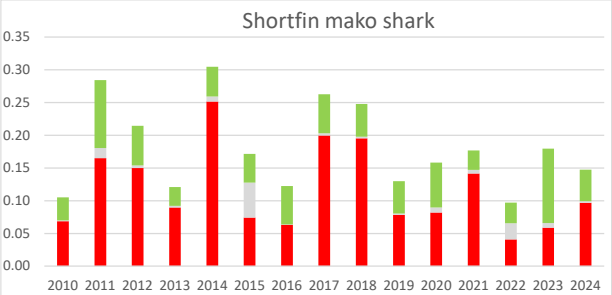
## Observed shark capture rates for the SBT longline fishery

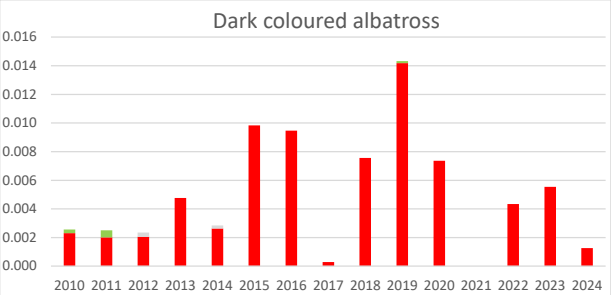


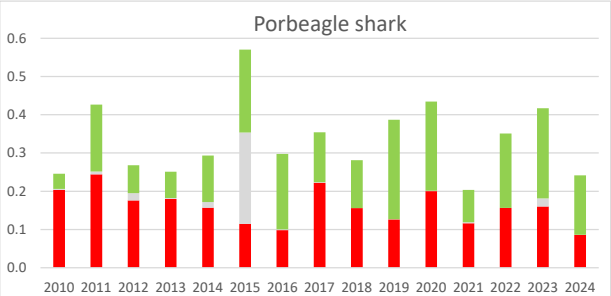
*Observed capture rates (numbers per 1000 hooks) with proportions of observed mortalities (red), observed live releases (green) and unspecified life status (grey) for the SBT longline fishery by year and species/species group (refer to the 'Caveats of the Data' section before interpreting the results).*

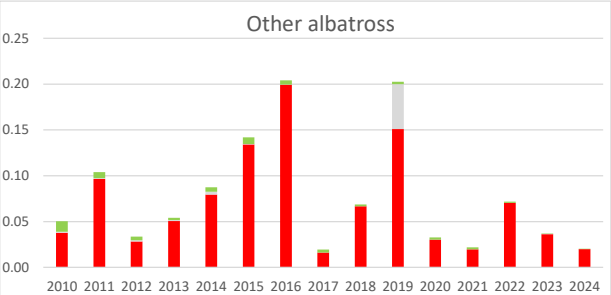


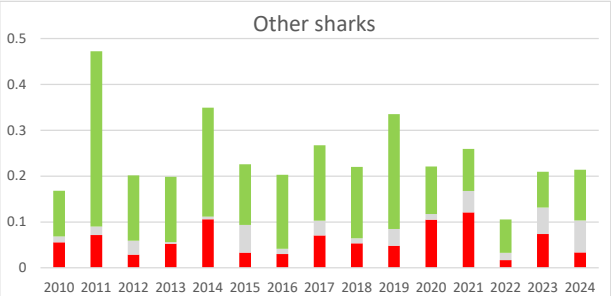



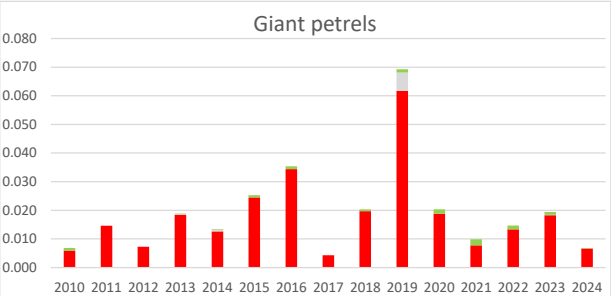



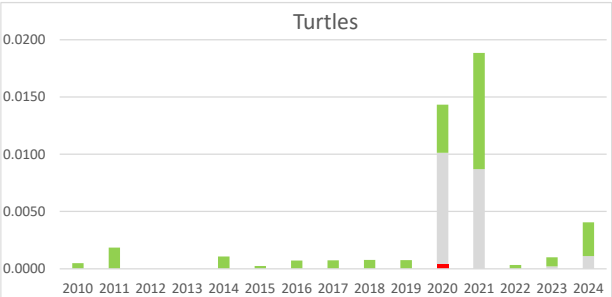



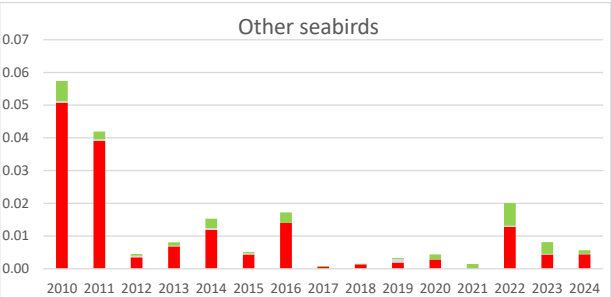



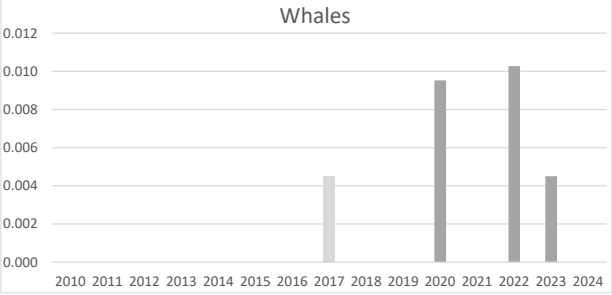



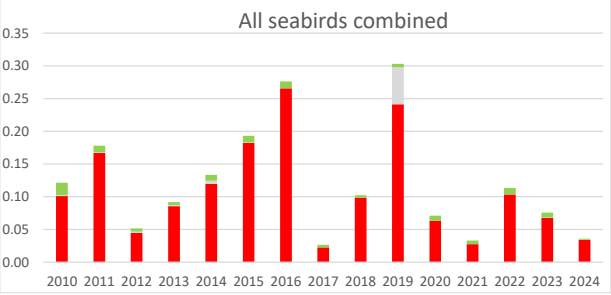



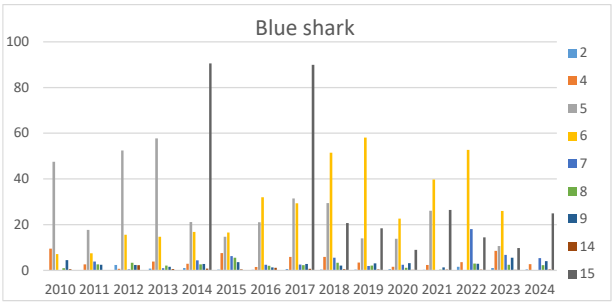



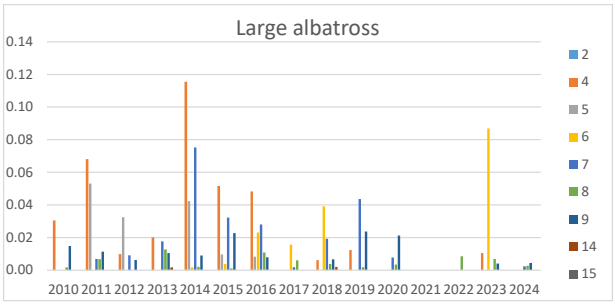



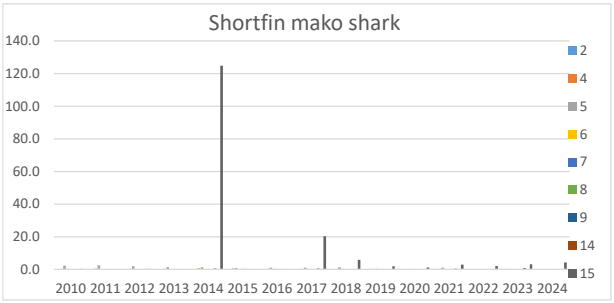



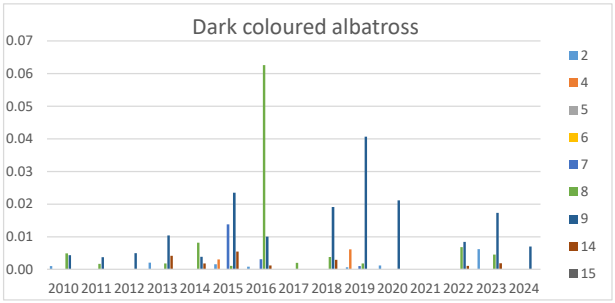



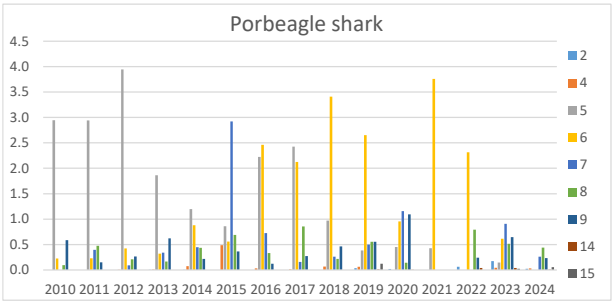
*Observed catch rates for the SBT longline fishery by year, statistical area and species/species group (refer to the 'Caveats of the Data' section before interpreting the results).*

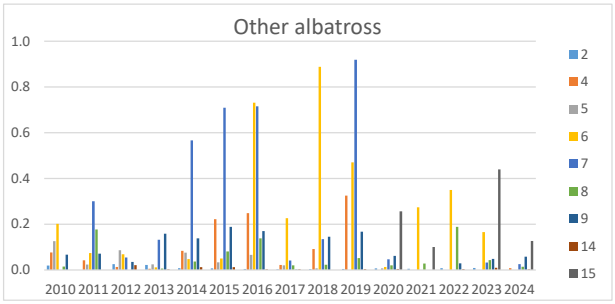


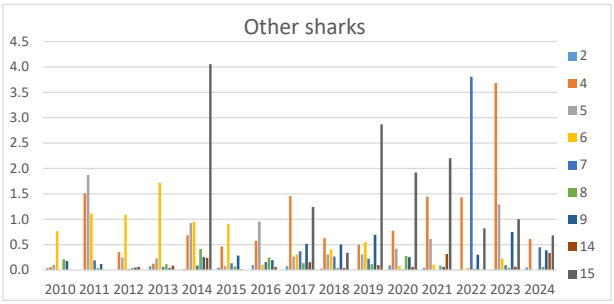



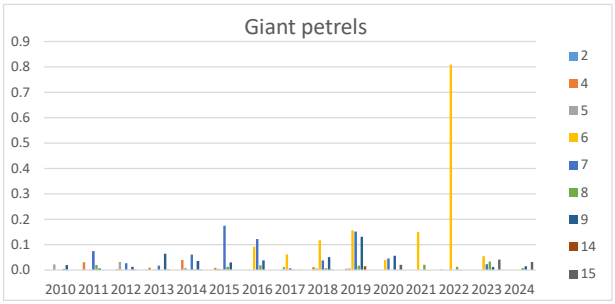



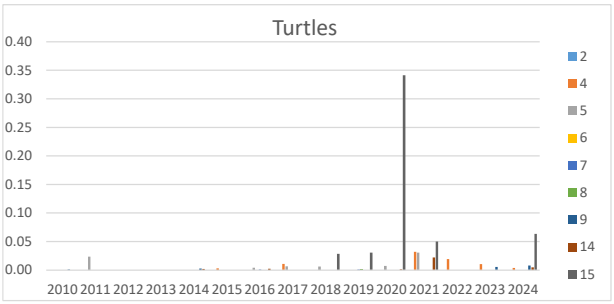



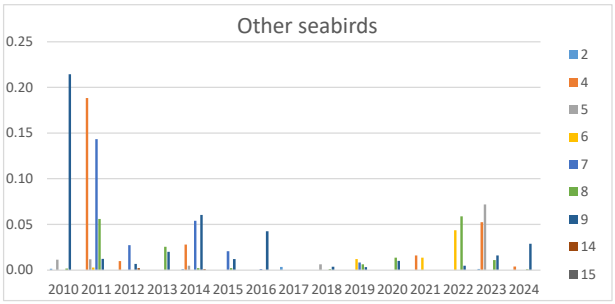



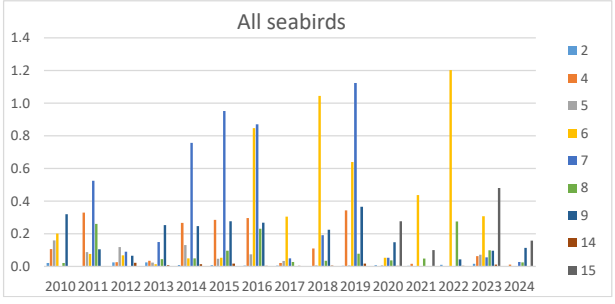



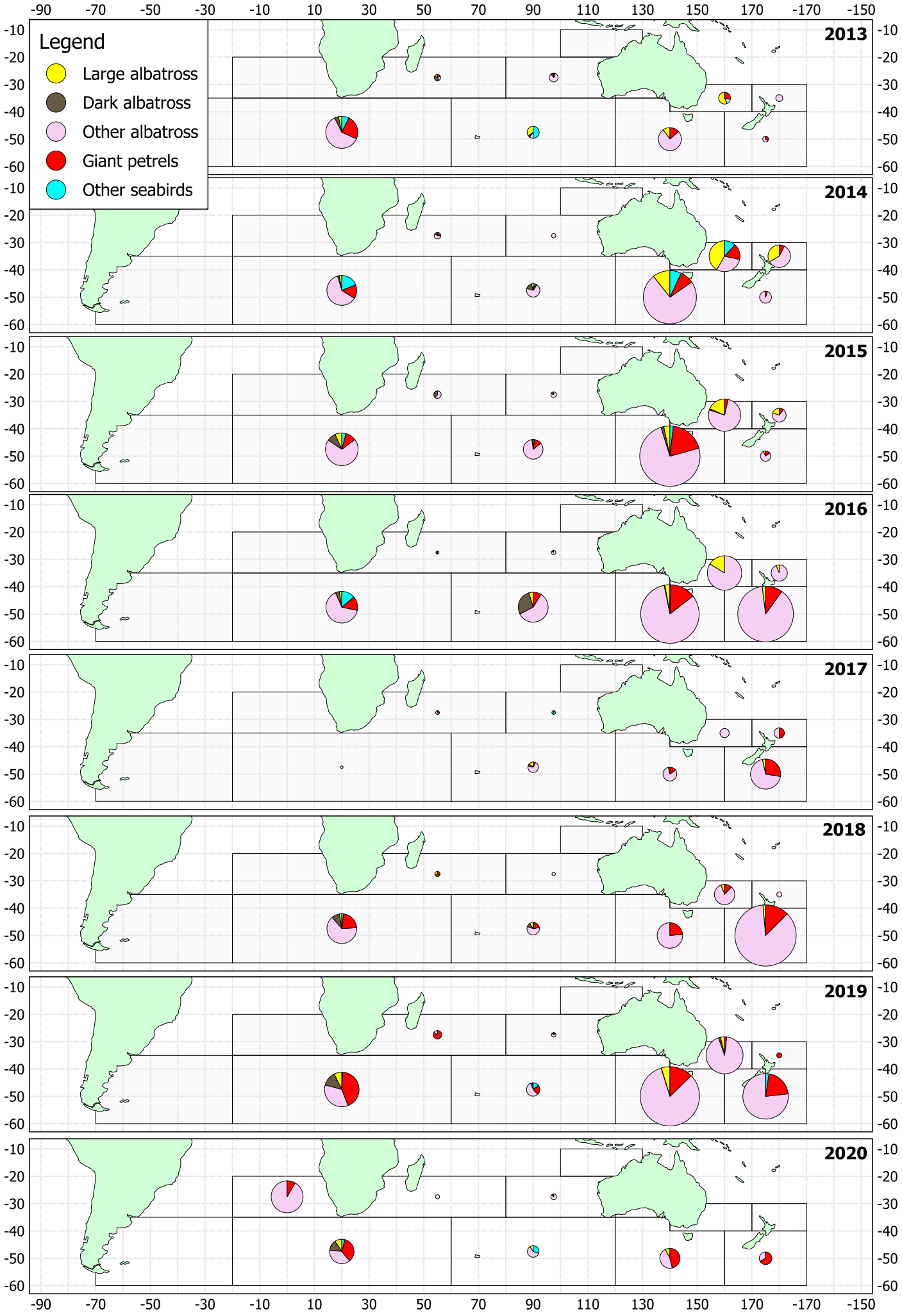



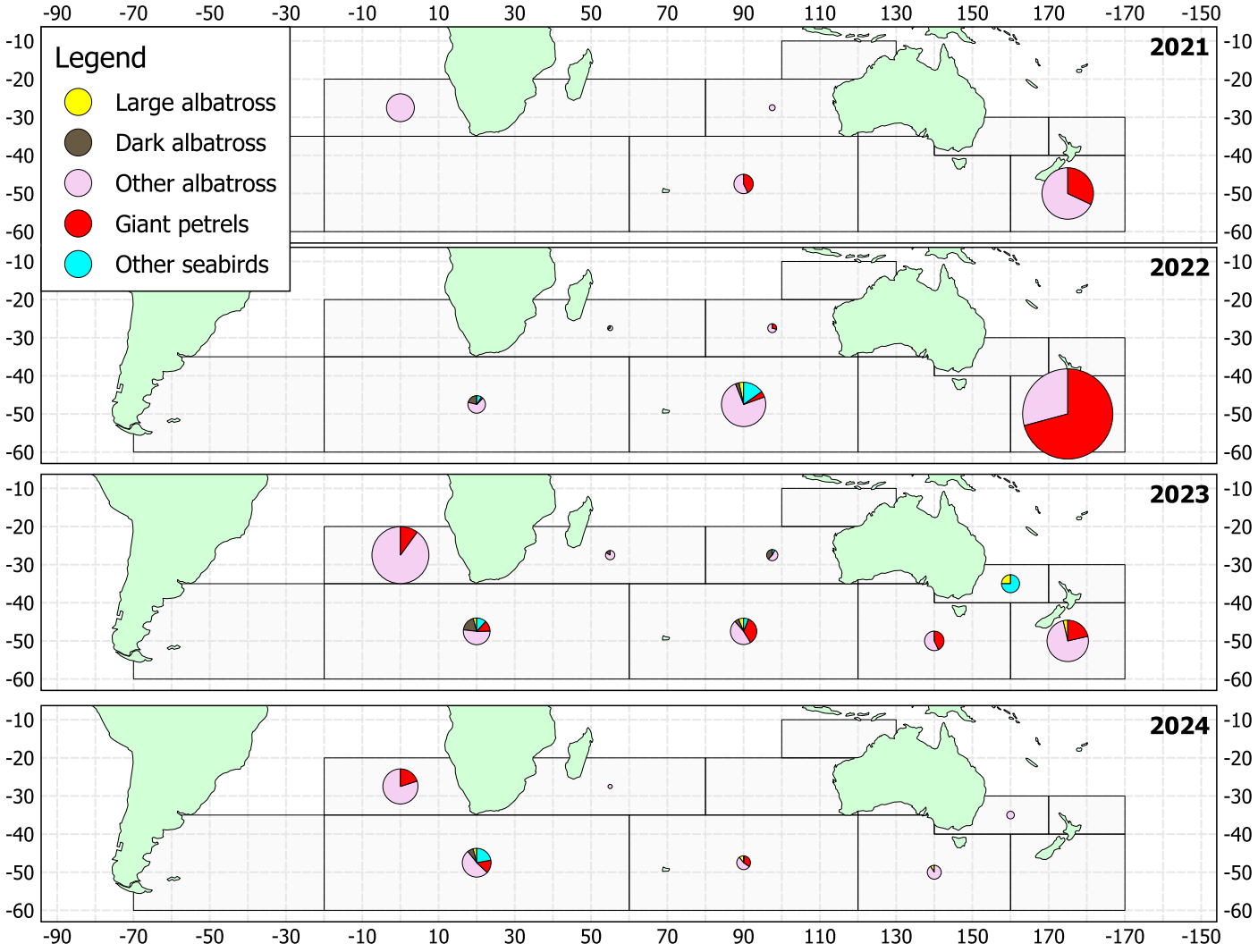
# Observed bird mortality rates for the SBT longline fishery

Refer to the 'Caveats of the Data' section of the main text before interpreting the results.

**Attachment R**



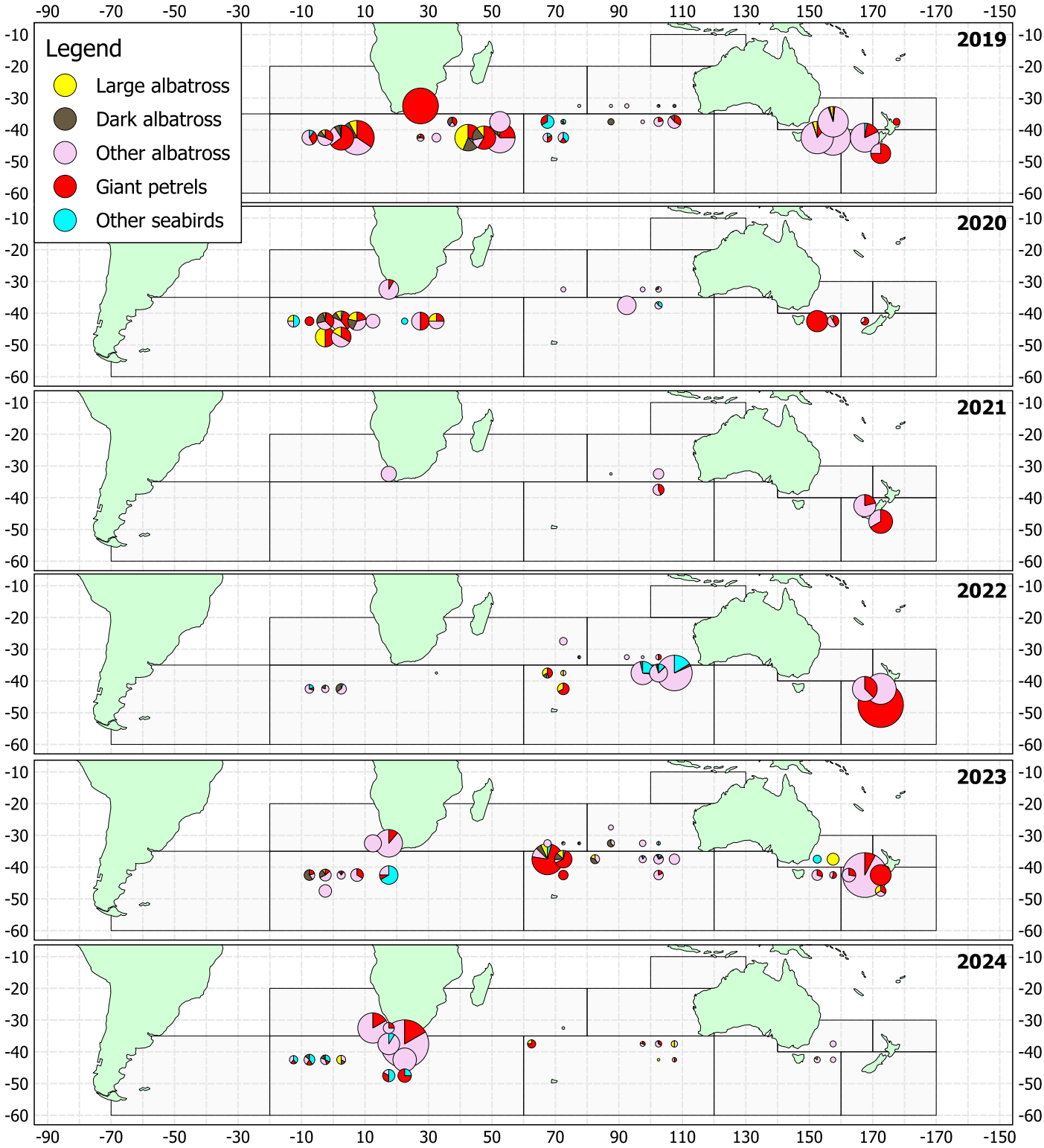
## Observed bird mortality rates for the SBT longline fishery



# Observed bird mortality rates for the SBT longline fishery (5x5)

**Attachment S**

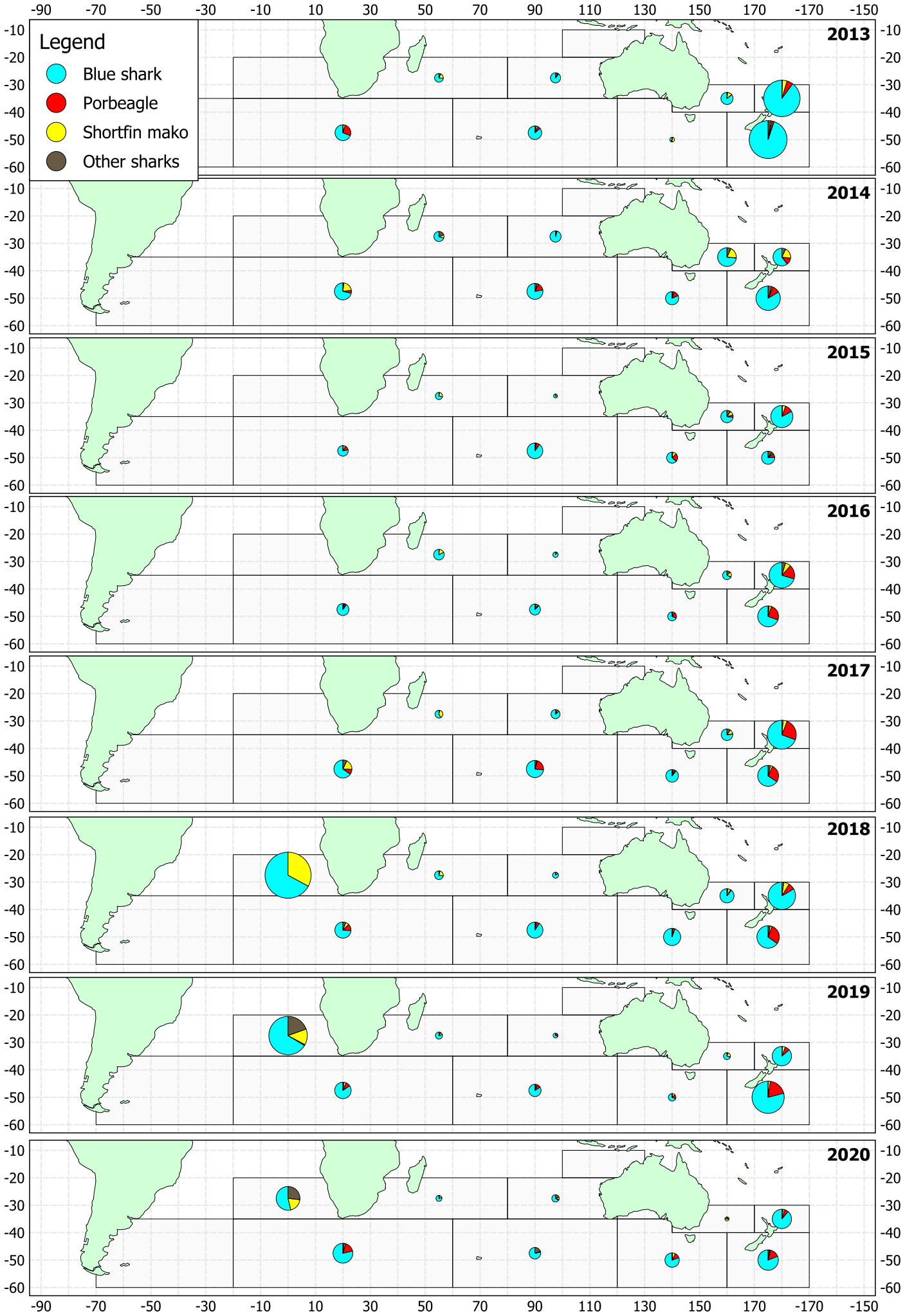
Refer to the 'Caveats of the Data' section of the main text before interpreting the results.



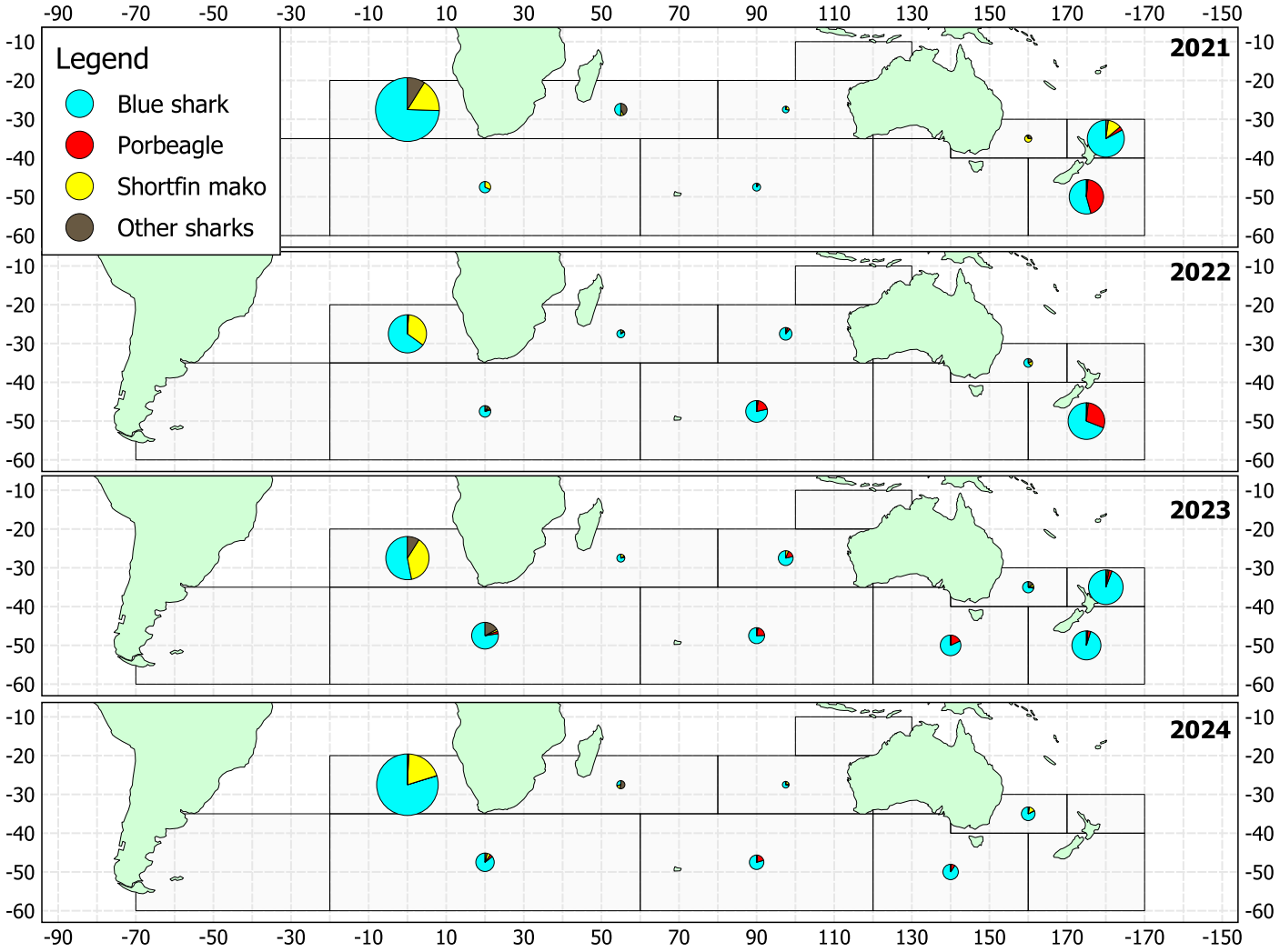
# Observed shark mortality rates for the SBT longline fishery

Refer to the 'Caveats of the Data' section of the main text before interpreting the results.

**Attachment T**

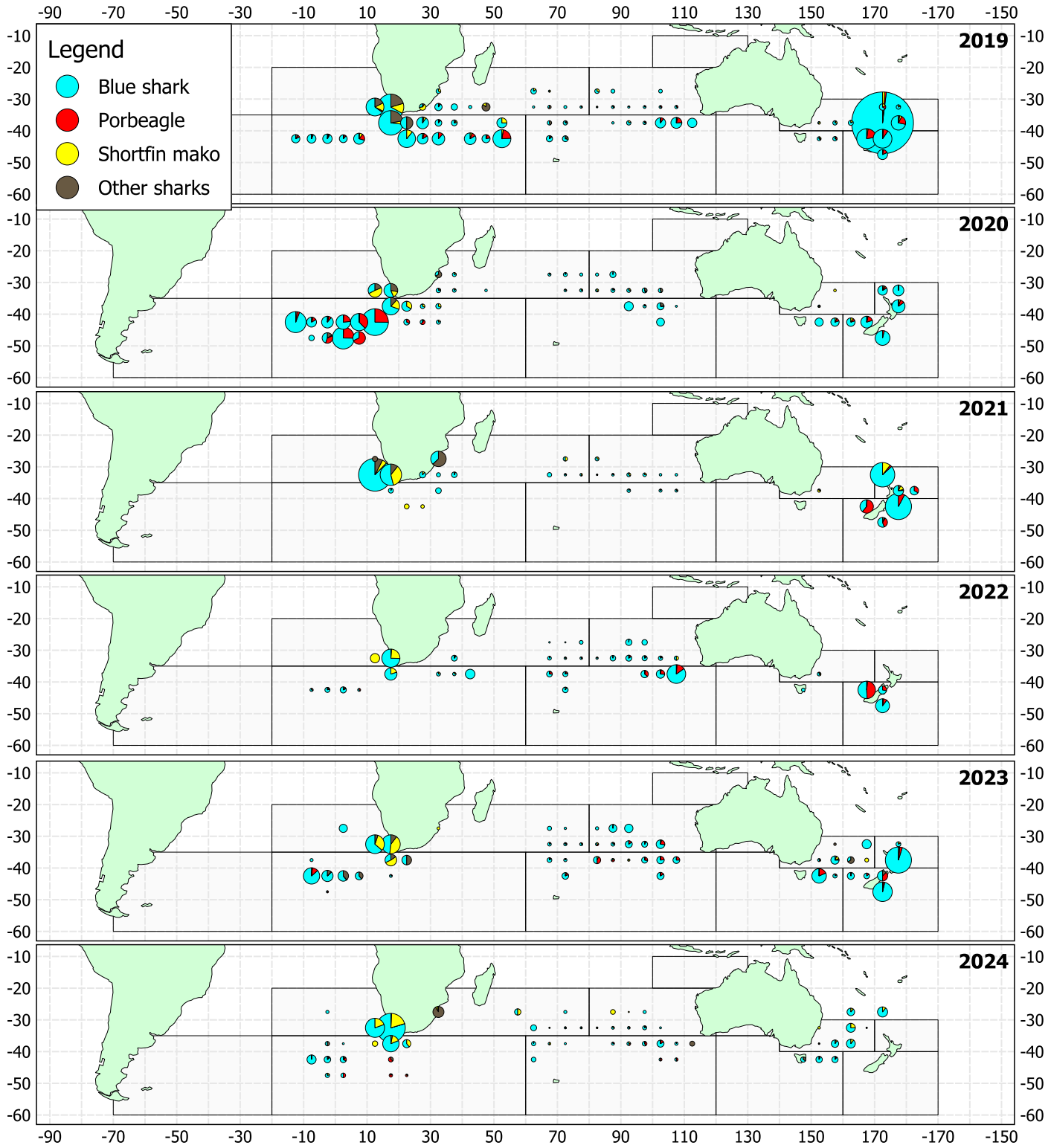


## Observed shark mortality rates for the SBT longline fishery



**Observed shark mortality rates for the SBT longline fishery (5x5)** **Attachment U**

Refer to the 'Caveats of the Data' section of the main text before interpreting the results.



*Estimated total mortalities for the SBT longline fishery by year, statistical area and species/species group (refer to the 'Caveats of the Data' section before interpreting the results).*

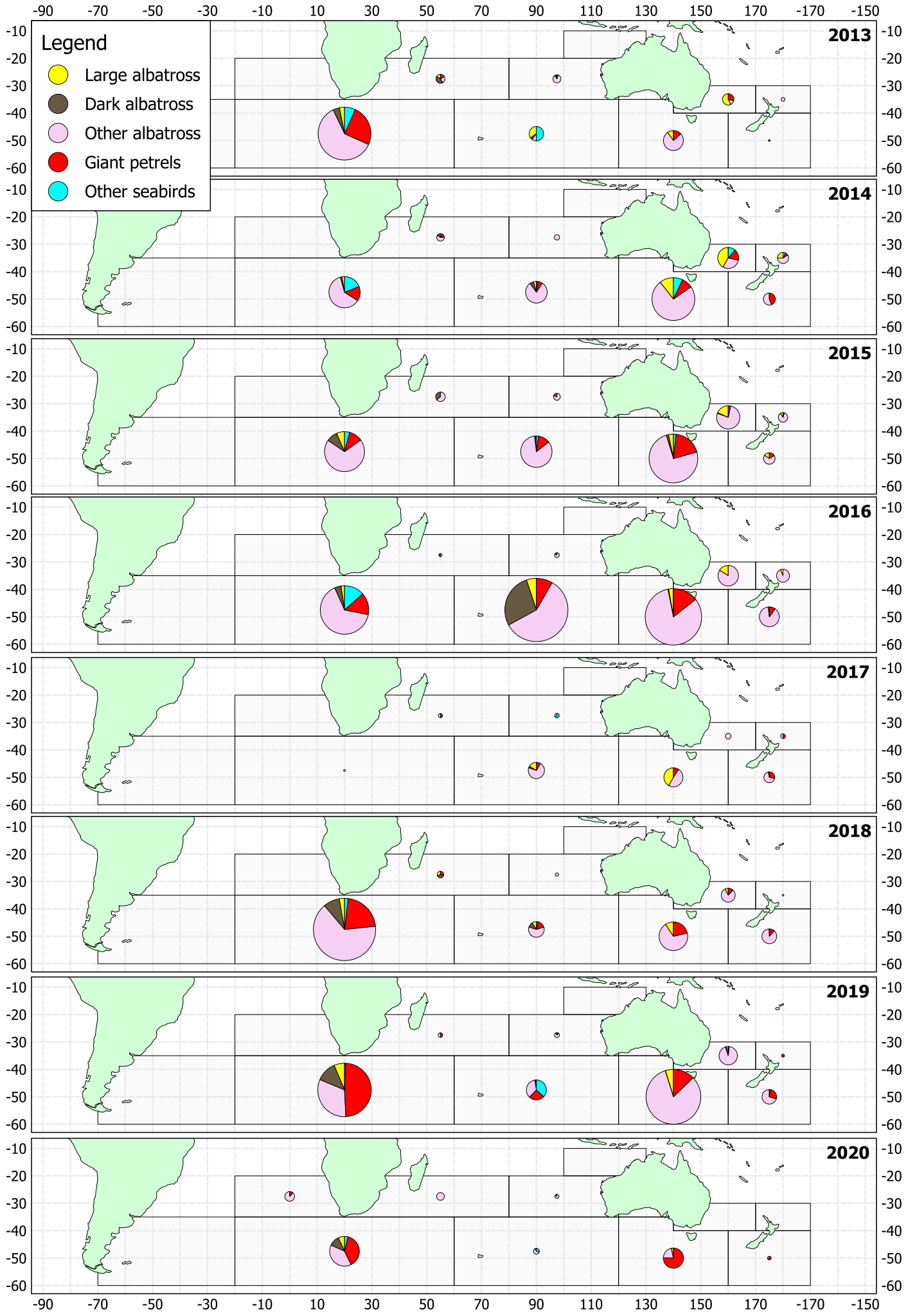
| Year | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other Sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 2 | 2,533 | 175 | 0 | 432 | 0 | 0 | 6 | 142 | 6 | 6 |
| | 4 | 3,448 | 664 | 0 | 132 | 0 | 255 | 0 | 637 | 0 | 0 |
| | 5 | 14,326 | 732 | 1,666 | 22 | 0 | 0 | 0 | 100 | 22 | 11 |
| | 6 | 11,157 | 102 | 313 | 34 | 0 | 0 | 0 | 498 | 0 | 0 |
| | 8 | 4,584 | 131 | 449 | 185 | 0 | 10 | 24 | 80 | 32 | 8 |
| | 9 | 24,074 | 965 | 3,703 | 1,793 | 0 | 167 | 145 | 682 | 568 | 2,892 |
| | 14 | 1,987 | 1,286 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | *2010 Total* | *62,109* | *4,055* | *6,131* | *2,598* | *0* | *432* | *175* | *2,139* | *628* | *2,917* |
| **2011** | 4 | 5,681 | 1,248 | 0 | 539 | 0 | 331 | 0 | 204 | 153 | 820 |
| | 5 | 12,361 | 2,108 | 2,461 | 273 | 0 | 172 | 0 | 60 | 0 | 20 |
| | 6 | 3,204 | 24 | 81 | 81 | 0 | 0 | 0 | 14 | 1 | 0 |
| | 7 | 4,526 | 311 | 298 | 81 | 0 | 13 | 0 | 596 | 149 | 271 |
| | 8 | 6,281 | 66 | 841 | 0 | 0 | 19 | 4 | 480 | 57 | 156 |
| | 9 | 20,966 | 1,702 | 846 | 566 | 0 | 80 | 22 | 559 | 51 | 87 |
| | *2011 Total* | *53,019* | *5,459* | *4,527* | *1,540* | *0* | *615* | *26* | *1,913* | *411* | *1,354* |
| **2012** | 2 | 4,423 | 30 | 0 | 0 | 0 | 0 | 0 | 48 | 0 | 0 |
| | 4 | 363 | 892 | 0 | 77 | 0 | 37 | 0 | 37 | 12 | 37 |
| | 5 | 20,936 | 1,109 | 1,393 | 22 | 0 | 33 | 0 | 88 | 33 | 0 |
| | 6 | 28,514 | 183 | 1,311 | 106 | 0 | 0 | 0 | 42 | 0 | 0 |
| | 7 | 890 | 111 | 44 | 0 | 0 | 22 | 0 | 111 | 66 | 66 |
| | 8 | 8,351 | 26 | 89 | 17 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 9 | 16,418 | 1,180 | 4,010 | 133 | 0 | 62 | 73 | 393 | 177 | 65 |
| | 14 | 2,241 | 168 | 0 | 0 | 0 | 0 | 0 | 23 | 2 | 2 |
| | *2012 Total* | *82,136* | *3,699* | *6,847* | *355* | *0* | *154* | *73* | *742* | *290* | *170* |
| **2013** | 2 | 2,838 | 79 | 2 | 210 | 0 | 0 | 7 | 59 | 3 | 0 |
| | 4 | 931 | 501 | 4 | 17 | 0 | 79 | 0 | 19 | 39 | 0 |
| | 5 | 10,652 | 435 | 703 | 60 | 0 | 0 | 0 | 15 | 0 | 0 |
| | 6 | 5,090 | 58 | 92 | 119 | 0 | 0 | 0 | 2 | 1 | 0 |
| | 7 | 226 | 255 | 70 | 28 | 0 | 42 | 0 | 326 | 56 | 0 |
| | 8 | 7,081 | 255 | 403 | 235 | 0 | 77 | 11 | 22 | 0 | 110 |
| | 9 | 15,598 | 686 | 3,004 | 136 | 0 | 93 | 118 | 1,810 | 742 | 196 |
| | 14 | 3,231 | 274 | 0 | 356 | 0 | 14 | 36 | 21 | 14 | 0 |
| | *2013 Total* | *45,647* | *2,543* | *4,278* | *1,161* | *0* | *305* | *172* | *2,274* | *855* | *306* |
| **2014** | 2 | 6,279 | 165 | 18 | 103 | 0 | 0 | 0 | 30 | 0 | 0 |
| | 4 | 4,253 | 1,117 | 7 | 366 | 0 | 195 | 0 | 140 | 78 | 54 |
| | 5 | 2,913 | 812 | 635 | 169 | 0 | 34 | 0 | 77 | 12 | 9 |
| | 6 | 4,232 | 388 | 2,097 | 270 | 0 | 0 | 0 | 86 | 67 | 0 |
| | 7 | 3,248 | 103 | 551 | 64 | 0 | 207 | 0 | 1,445 | 162 | 136 |
| | 8 | 15,147 | 664 | 3,091 | 847 | 0 | 22 | 28 | 406 | 37 | 8 |
| | 9 | 10,139 | 2,502 | 627 | 1,018 | 0 | 29 | 17 | 638 | 155 | 197 |
| | 14 | 3,164 | 115 | 0 | 981 | 0 | 0 | 10 | 36 | 10 | 5 |
| | 15 | 2,246 | 15,262 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | *2014 Total* | *51,621* | *21,128* | *7,026* | *3,818* | *0* | *487* | *55* | *2,858* | *521* | *409* |
| **2015** | 2 | 552 | 193 | 0 | 38 | 0 | 0 | 10 | 40 | 0 | 0 |
| | 4 | 2,049 | 345 | 173 | 265 | 0 | 106 | 6 | 444 | 19 | 0 |
| | 5 | 8,232 | 407 | 1,164 | 107 | 0 | 9 | 0 | 83 | 4 | 0 |
| | 6 | 2,359 | 267 | 879 | 174 | 0 | 22 | 0 | 97 | 23 | 0 |
| | 7 | 1,780 | 293 | 651 | 57 | 0 | 82 | 38 | 1,882 | 478 | 44 |
| | 8 | 15,574 | 359 | 1,452 | 217 | 0 | 8 | 12 | 875 | 127 | 23 |
| | 9 | 8,470 | 401 | 870 | 110 | 0 | 112 | 152 | 1,178 | 184 | 71 |
| | 14 | 1,476 | 244 | 0 | 61 | 0 | 0 | 34 | 62 | 0 | 0 |
| | *2015 Total* | *40,492* | *2,509* | *5,189* | *1,029* | *0* | *339* | *252* | *4,660* | *835* | *138* |

| Year | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other Sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2016** | 2 | 1,061 | 109 | 0 | 4 | 0 | 0 | 4 | 20 | 0 | 0 |
| | 4 | 671 | 177 | 15 | 128 | 0 | 72 | 0 | 375 | 0 | 0 |
| | 5 | 6,012 | 643 | 1,435 | 695 | 0 | 12 | 0 | 168 | 0 | 0 |
| | 6 | 1,353 | 75 | 494 | 25 | 0 | 8 | 0 | 369 | 42 | 0 |
| | 7 | 1,811 | 153 | 634 | 103 | 0 | 94 | 12 | 2,796 | 484 | 4 |
| | 8 | 10,209 | 788 | 563 | 154 | 0 | 216 | 1,182 | 2,495 | 353 | 0 |
| | 9 | 15,015 | 962 | 666 | 281 | 0 | 59 | 109 | 1,629 | 366 | 334 |
| | 14 | 2,792 | 291 | 0 | 42 | 0 | 0 | 5 | 5 | 0 | 0 |
| | *2016 Total* | *38,924* | *3,198* | *3,807* | *1,432* | *0* | *461* | *1,313* | *7,858* | *1,245* | *338* |
| **2017** | 2 | 3,809 | 284 | 0 | 329 | 0 | 0 | 0 | 7 | 0 | 15 |
| | 4 | 1,153 | 183 | 7 | 154 | 0 | 0 | 0 | 34 | 0 | 0 |
| | 5 | 3,988 | 247 | 1,427 | 78 | 0 | 0 | 0 | 12 | 12 | 0 |
| | 6 | 1,279 | 26 | 560 | 69 | 0 | 4 | 0 | 87 | 35 | 0 |
| | 7 | 5,935 | 243 | 244 | 135 | 0 | 161 | 0 | 188 | 35 | 0 |
| | 8 | 18,424 | 199 | 6,310 | 416 | 0 | 47 | 9 | 203 | 23 | 0 |
| | 9 | 6,818 | 3,438 | 1,304 | 463 | 0 | 0 | 0 | 4 | 0 | 0 |
| | 14 | 1,084 | 225 | 0 | 79 | 0 | 0 | 0 | 10 | 9 | 0 |
| | 15 | 8,384 | 4,236 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | *2017 Total* | *50,874* | *9,081* | *9,852* | *1,723* | *0* | *212* | *9* | *545* | *114* | *15* |
| **2018** | 2 | 1,661 | 233 | 0 | 100 | 0 | 0 | 0 | 12 | 0 | 0 |
| | 4 | 2,945 | 198 | 61 | 48 | 0 | 16 | 0 | 166 | 24 | 0 |
| | 5 | 6,055 | 311 | 540 | 209 | 0 | 0 | 0 | 3 | 0 | 0 |
| | 6 | 690 | 33 | 374 | 27 | 0 | 1 | 0 | 204 | 27 | 0 |
| | 7 | 11,298 | 47 | 467 | 93 | 0 | 82 | 0 | 606 | 186 | 0 |
| | 8 | 13,839 | 176 | 1,050 | 124 | 0 | 24 | 28 | 156 | 45 | 7 |
| | 9 | 19,244 | 1,380 | 3,551 | 1,206 | 0 | 114 | 347 | 2,704 | 886 | 76 |
| | 14 | 2,672 | 393 | 0 | 87 | 0 | 14 | 19 | 0 | 13 | 0 |
| | 15 | 5,204 | 2,548 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | *2018 Total* | *63,607* | *5,318* | *6,043* | *1,893* | *0* | *251* | *394* | *3,851* | *1,181* | *83* |
| **2019** | 2 | 795 | 161 | 151 | 3 | 0 | 0 | 2 | 21 | 3 | 0 |
| | 4 | 255 | 85 | 6 | 19 | 0 | 12 | 6 | 333 | 6 | 0 |
| | 5 | 1,679 | 141 | 315 | 37 | 0 | 0 | 0 | 0 | 9 | 0 |
| | 6 | 3,576 | 69 | 716 | 11 | 0 | 0 | 0 | 159 | 62 | 4 |
| | 7 | 1,280 | 223 | 323 | 33 | 0 | 152 | 3 | 2,629 | 406 | 0 |
| | 8 | 8,239 | 260 | 512 | 253 | 0 | 5 | 6 | 150 | 107 | 156 |
| | 9 | 16,450 | 1,094 | 1,831 | 394 | 0 | 194 | 375 | 975 | 1,480 | 16 |
| | 14 | 2,132 | 139 | 0 | 67 | 0 | 0 | 0 | 12 | 10 | 0 |
| | 15 | 3,170 | 772 | 15 | 871 | 0 | 0 | 0 | 0 | 0 | 0 |
| | *2019 Total* | *37,576* | *2,944* | *3,869* | *1,688* | *0* | *363* | *392* | *4,279* | *2,083* | *176* |
| **2020** | 2 | 1,017 | 202 | 35 | 237 | 0 | 0 | 3 | 15 | 0 | 0 |
| | 4 | 16 | 13 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 2,983 | 94 | 257 | 59 | 7 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 1,791 | 29 | 241 | 26 | 0 | 0 | 0 | 5 | 9 | 0 |
| | 7 | 3,911 | 230 | 415 | 15 | 0 | 15 | 0 | 92 | 325 | 0 |
| | 8 | 4,812 | 10 | 8 | 242 | 0 | 3 | 0 | 23 | 0 | 11 |
| | 9 | 13,116 | 675 | 2,844 | 423 | 0 | 65 | 106 | 367 | 366 | 34 |
| | 14 | 1,508 | 296 | 14 | 45 | 0 | 0 | 0 | 65 | 0 | 0 |
| | 15 | 926 | 238 | 0 | 573 | 0 | 0 | 0 | 90 | 11 | 0 |
| | *2020 Total* | *30,080* | *1,787* | *3,814* | *1,636* | *7* | *83* | *109* | *657* | *711* | *45* |

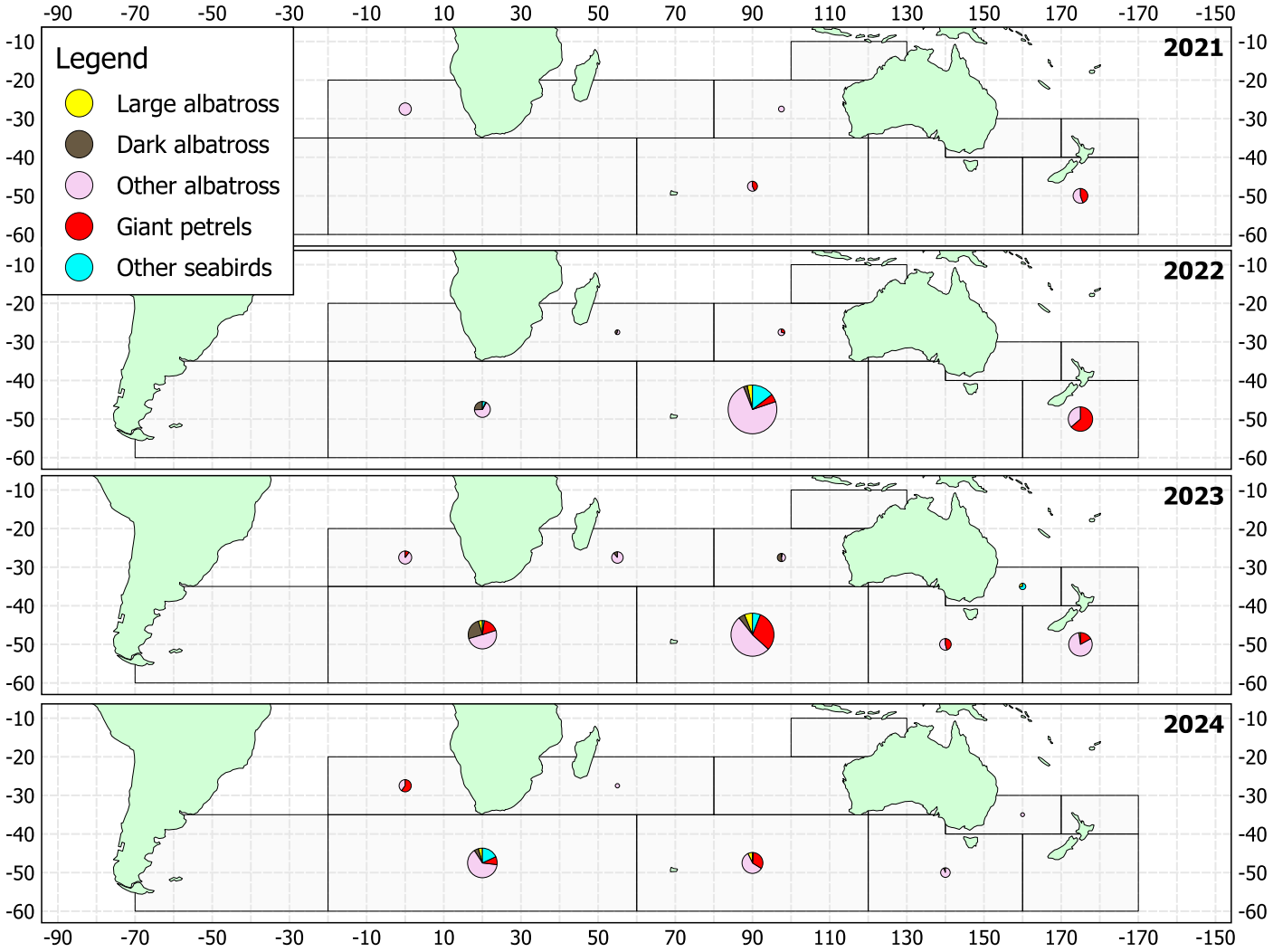
| Year | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other Sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2021** | 2 | 562 | 146 | 0 | 36 | 0 | 0 | 0 | 18 | 0 | 0 |
| | 4 | 6 | 58 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 1,709 | 274 | 53 | 74 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 1,075 | 13 | 597 | 23 | 0 | 0 | 0 | 65 | 52 | 0 |
| | 8 | 211 | 14 | 0 | 7 | 0 | 0 | 0 | 30 | 23 | 0 |
| | 9 | 254 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 14 | 1,386 | 220 | 0 | 225 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 15 | 2,744 | 1,022 | 0 | 484 | 0 | 0 | 0 | 81 | 0 | 0 |
| | *2021 Total* | *7,947* | *1,759* | *650* | *852* | *0* | *0* | *0* | *194* | *75* | *0* |
| **2022** | 2 | 1,428 | 84 | 145 | 5 | 0 | 0 | 0 | 17 | 7 | 0 |
| | 4 | 100 | 30 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 1,200 | 20 | 572 | 5 | 0 | 0 | 0 | 116 | 203 | 0 |
| | 7 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 8 | 7,091 | 198 | 1,773 | 39 | 0 | 45 | 32 | 945 | 67 | 185 |
| | 9 | 2,836 | 329 | 115 | 186 | 0 | 0 | 35 | 90 | 2 | 9 |
| | 14 | 1,152 | 140 | 69 | 10 | 0 | 0 | 5 | 7 | 0 | 0 |
| | 15 | 760 | 270 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 |
| | *2022 Total* | *14,571* | *1,071* | *2,674* | *286* | *0* | *45* | *72* | *1,175* | *279* | *194* |
| **2023** | 2 | 1,542 | 133 | 289 | 0 | 0 | 0 | 19 | 16 | 0 | 1 |
| | 4 | 457 | 22 | 19 | 84 | 0 | 6 | 0 | 0 | 0 | 16 |
| | 5 | 3,155 | 4 | 104 | 52 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 8,956 | 8 | 329 | 157 | 0 | 7 | 0 | 239 | 50 | 0 |
| | 7 | 1,776 | 4 | 365 | 10 | 0 | 0 | 0 | 39 | 33 | 0 |
| | 8 | 10,510 | 310 | 3,041 | 45 | 0 | 61 | 46 | 521 | 306 | 59 |
| | 9 | 8,225 | 362 | 409 | 1,969 | 0 | 20 | 107 | 218 | 77 | 9 |
| | 14 | 1,133 | 219 | 84 | 3 | 0 | 0 | 8 | 63 | 0 | 0 |
| | 15 | 899 | 663 | 0 | 290 | 0 | 0 | 0 | 82 | 9 | 0 |
| | *2023 Total* | *36,653* | *1,725* | *4,640* | *2,610* | *0* | *94* | *180* | *1,178* | *475* | *85* |
| **2024** | 2 | 558 | 180 | 55 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 420 | 85 | 7 | 34 | 0 | 0 | 0 | 8 | 0 | 0 |
| | 7 | 1,909 | 12 | 166 | 24 | 0 | 3 | 0 | 46 | 0 | 0 |
| | 8 | 7,622 | 108 | 1,571 | 33 | 0 | 17 | 0 | 138 | 76 | 3 |
| | 9 | 4,381 | 379 | 353 | 313 | 0 | 21 | 22 | 301 | 41 | 85 |
| | 14 | 462 | 185 | 4 | 428 | 0 | 0 | 0 | 10 | 0 | 0 |
| | 15 | 5,245 | 1,328 | 8 | 55 | 0 | 0 | 0 | 32 | 48 | 0 |
| | *2024 Total* | *20,838* | *2,306* | *2,164* | *895* | *0* | *41* | *22* | *535* | *165* | *88* |

**Estimated total bird mortalities for the SBT longline fishery** **Attachment W**

Refer to the 'Caveats of the Data' section of the main text before interpreting the results.

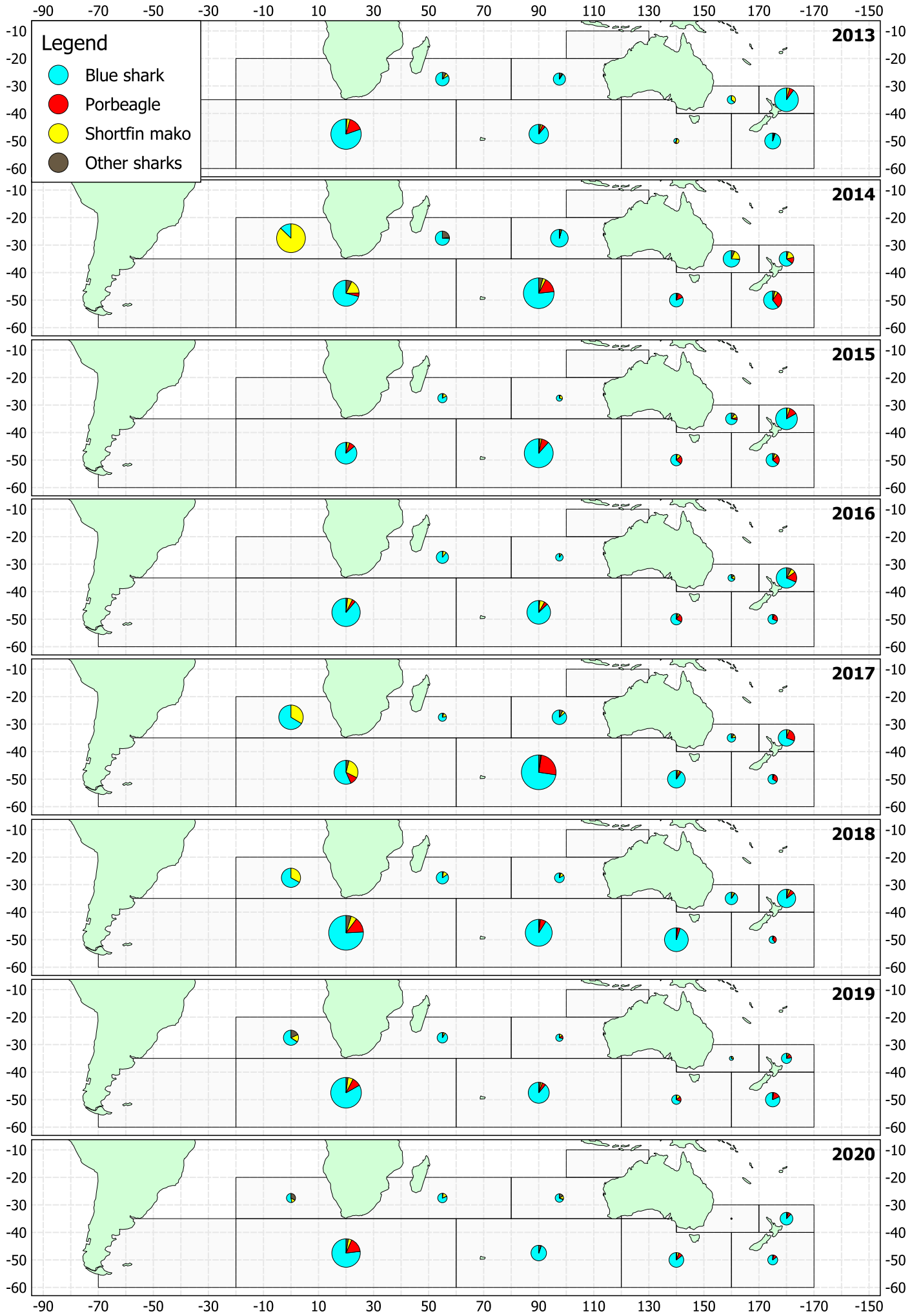


## Estimated total bird mortalities for the SBT longline fishery



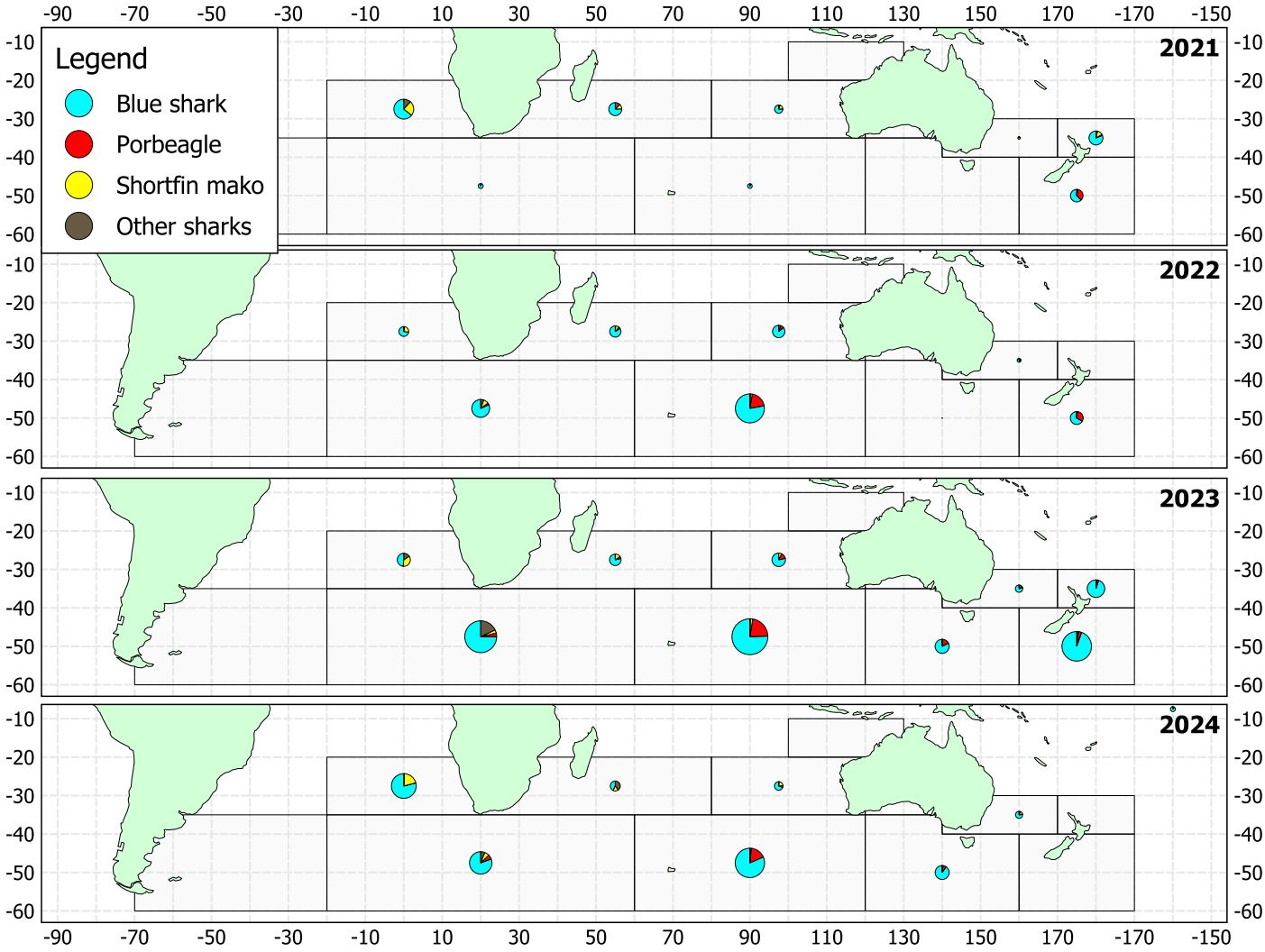
**Estimated total shark mortalities for the SBT longline fishery** **Attachment X**

Refer to the 'Caveats of the Data' section of the main text before interpreting the results.



**Estimated total shark mortalities for the SBT longline fishery**

**Attachment X**



*Proportions of observed effort with specific mitigation measures by year and CCSBT statistical area.*

| Year | Statistical Area | Tori pole + Night setting | Tori pole + weighted branchline | Night setting + weighted branchline | Tori pole + night setting + weighted branchline | Tori pole | Night setting | Weighted branchline | None | Single measure (unspecified) | Mix of 2 measures | Other |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2014 | 2 | 21.2% | 78.8% | 0.0% | 0.0% | | | | 0.0% | 0.0% | 0.0% | 0.0% |
| | 4 | 6.2% | 5.2% | 0.0% | 0.4% | | | | 0.0% | 88.3% | 0.0% | 0.0% |
| | 5 | 5.8% | 60.6% | 0.0% | 0.0% | | | | 0.0% | 33.6% | 0.0% | 0.0% |
| | 6 | 99.7% | 0.0% | 0.0% | 0.0% | | | | 0.0% | 0.3% | 0.0% | 0.0% |
| | 7 | 17.3% | 0.0% | 0.0% | 0.0% | | | | 0.0% | 82.7% | 0.0% | 0.0% |
| | 8 | 29.7% | 70.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.2% | 0.0% | 0.0% |
| | 9 | 3.6% | 51.2% | 0.0% | 33.8% | | | | 0.0% | 11.4% | 0.0% | 0.0% |
| | 14 | 0.0% | 92.8% | 0.0% | 7.2% | | | | 0.0% | 0.0% | 0.0% | 0.0% |
| | 15 | 0.0% | 0.0% | 0.0% | 100.0% | | | | 0.0% | 0.0% | 0.0% | 0.0% |
| 2015 | 2 | 59.0% | 25.6% | 7.5% | 7.8% | | | | 0.0% | 0.0% | 0.0% | 0.0% |
| | 4 | 1.6% | 68.1% | 0.0% | 3.5% | | | | 0.0% | 0.0% | 26.8% | 0.0% |
| | 5 | 8.6% | 74.2% | 0.0% | 0.0% | | | | 0.0% | 17.2% | 0.0% | 0.0% |
| | 6 | 99.5% | 0.0% | 0.0% | 0.0% | | | | 0.0% | 0.5% | 0.0% | 0.0% |
| | 7 | 0.3% | 31.5% | 0.0% | 0.0% | | | | 0.0% | 0.0% | 68.2% | 0.0% |
| | 8 | 42.7% | 15.2% | 0.0% | 10.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 31.8% | 0.0% |
| | 9 | 11.6% | 39.8% | 0.0% | 5.8% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 42.8% | 0.0% |
| | 14 | 43.6% | 10.6% | 9.0% | 36.8% | | | | 0.0% | 0.0% | 0.0% | 0.0% |
| 2016 | 2 | 48.5% | 7.6% | 0.0% | 43.9% | | | | 0.0% | 0.0% | 0.0% | 0.0% |
| | 4 | 18.0% | 7.4% | 0.0% | 9.1% | 62.0% | 1.7% | 0.0% | 1.7% | 0.0% | 0.0% | 0.0% |
| | 5 | 39.4% | 0.0% | 0.0% | 0.0% | 26.5% | 1.5% | 0.0% | 8.9% | 23.7% | 0.0% | 0.0% |
| | 6 | 83.6% | 0.0% | 0.0% | 0.0% | | | | 0.0% | 16.4% | 0.0% | 0.0% |
| | 7 | 15.9% | 13.8% | 0.0% | 4.8% | 65.6% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 8 | 37.2% | 3.8% | 0.0% | 28.0% | 31.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 9 | 28.3% | 25.6% | 0.7% | 9.9% | 25.3% | 3.2% | 0.2% | 7.0% | 0.0% | 0.0% | 0.0% |
| | 14 | 73.3% | 5.9% | 0.0% | 20.8% | | | | 0.0% | 0.0% | 0.0% | 0.0% |
| 2017 | 2 | 87.6% | 2.2% | 0.0% | 10.2% | | | | 0.0% | 0.0% | 0.0% | 0.0% |
| | 4 | 0.0% | 57.3% | 0.0% | 42.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 5 | 89.5% | 0.0% | 0.0% | 0.0% | | | | 0.0% | 10.5% | 0.0% | 0.0% |
| | 6 | 99.3% | 0.0% | 0.0% | 0.0% | | | | 0.0% | 0.8% | 0.0% | 0.0% |
| | 7 | 11.1% | 45.0% | 0.0% | 29.7% | 14.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 8 | 65.9% | 3.2% | 0.0% | 2.2% | 27.4% | 0.0% | 0.0% | 1.3% | 0.0% | 0.0% | 0.0% |
| | 9 | 3.0% | 90.1% | 0.0% | 6.9% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 14 | 52.4% | 0.5% | 0.0% | 47.1% | | | | 0.0% | 0.0% | 0.0% | 0.0% |
| | 15 | 0.0% | 0.0% | 0.0% | 100.0% | | | | 0.0% | 0.0% | 0.0% | 0.0% |
| 2018 | 2 | 91.4% | 3.3% | 0.6% | 4.4% | 0.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 4 | 19.1% | 11.0% | 0.0% | 29.0% | 40.9% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 5 | 66.7% | 1.2% | 0.0% | 25.8% | 1.8% | 4.5% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 6 | 68.9% | 0.0% | 0.0% | 31.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 7 | 31.2% | 0.9% | 0.0% | 0.0% | 68.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 8 | 59.8% | 0.0% | 0.0% | 0.0% | 40.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 9 | 22.7% | 42.3% | 0.0% | 13.8% | 21.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 14 | 74.7% | 0.8% | 0.0% | 23.6% | 0.0% | 0.8% | 0.0% | 0.2% | 0.0% | 0.0% | 0.0% |
| | 15 | 12.0% | 0.0% | 0.0% | 88.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| 2019 | 2 | 71.3% | 18.1% | 0.0% | 5.0% | 5.5% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 4 | 18.1% | 22.3% | 0.0% | 21.2% | 38.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 5 | 28.4% | 1.3% | 5.2% | 5.2% | 0.4% | 10.8% | 16.2% | 0.0% | 0.0% | 0.0% | 32.4% |
| | 6 | 0.0% | 1.0% | 1.1% | 98.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 7 | 18.9% | 14.2% | 0.0% | 4.0% | 63.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 8 | 46.8% | 22.1% | 6.0% | 0.3% | 24.9% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 9 | 6.6% | 29.4% | 0.3% | 10.5% | 48.0% | 0.6% | 0.0% | 0.0% | 0.0% | 0.0% | 1.5% |
| | 14 | 40.8% | 30.9% | 9.6% | 11.2% | 7.4% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 15 | 17.3% | 0.0% | 43.1% | 39.5% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| 2020 | 2 | 92.5% | 4.7% | 0.0% | 2.8% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 4 | 0.0% | 37.9% | 0.0% | 62.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 5 | 19.8% | 6.7% | 16.6% | 21.5% | 0.6% | 0.0% | 34.8% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 6 | 0.0% | 0.7% | 9.4% | 89.8% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 7 | 0.0% | 31.1% | 0.0% | 68.9% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 8 | 71.7% | 3.6% | 0.0% | 0.8% | 23.9% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 9 | 57.6% | 13.0% | 0.6% | 5.4% | 23.2% | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 14 | 53.7% | 20.0% | 0.0% | 11.1% | 13.6% | 1.6% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 15 | 7.0% | 0.0% | 34.6% | 51.5% | 0.0% | 6.8% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |

| Year | Statistical Area | Tori pole + Night setting | Tori pole + weighted branchline | Night setting + weighted branchline | Tori pole + night setting + weighted branchline | Tori pole | Night setting | Weighted branchline | None | Single measure (unspecified) | Mix of 2 measures | Other |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2021 | 2 | 89.6% | 0.0% | 0.0% | 10.4% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 4 | 0.0% | 60.5% | 0.0% | 39.5% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 5 | 90.2% | 0.0% | 0.0% | 0.0% | 7.5% | 2.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 6 | 72.0% | 10.7% | 0.0% | 12.2% | 5.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 8 | 65.3% | 0.0% | 0.0% | 34.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 9 | 24.5% | 0.0% | 3.2% | 72.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 14 | 65.9% | 0.0% | 6.5% | 27.2% | 0.0% | 0.0% | 0.4% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 15 | 0.0% | 0.0% | 17.0% | 83.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| 2022 | 2 | 42.9% | 56.5% | 0.0% | 0.0% | 0.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 4 | 0.0% | 75.4% | 0.0% | 24.6% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 6 | 20.7% | 1.9% | 0.0% | 69.9% | 7.5% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 7 | 0.0% | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 8 | 41.8% | 47.5% | 0.0% | 0.0% | 10.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 9 | 33.7% | 65.7% | 0.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 14 | 59.6% | 26.7% | 0.0% | 0.0% | 13.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 15 | 0.0% | 0.0% | 69.7% | 30.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| 2023 | 2 | 42.9% | 56.5% | 0.0% | 0.0% | 0.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 4 | 0.0% | 75.4% | 0.0% | 24.6% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 5 | 20.7% | 1.9% | 0.0% | 69.9% | 7.5% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 6 | 0.0% | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 7 | 41.8% | 47.5% | 0.0% | 0.0% | 10.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 8 | 33.7% | 65.7% | 0.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 9 | 0.0% | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 14 | 59.6% | 26.7% | 0.0% | 0.0% | 13.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 15 | 0.0% | 0.0% | 69.7% | 30.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| 2024 | 2 | 42.9% | 56.5% | 0.0% | 0.0% | 0.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 4 | 0.0% | 75.4% | 0.0% | 24.6% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 7 | 20.7% | 1.9% | 0.0% | 69.9% | 7.5% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 8 | 0.0% | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 9 | 41.8% | 47.5% | 0.0% | 0.0% | 10.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 14 | 0.0% | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| | 15 | 59.6% | 26.7% | 0.0% | 0.0% | 13.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |