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
# 2025 年 ERSWG データ交換の概要

## Introduction
## 序論

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.
本文書では、ERSWG データ交換（EDE）を通じて提供されたデータの概要を提示する。ERSWG 10 は、事務局に対し、データはメンバー横断的に集計されることとしつつ、交換されたデータの概要を ERSWG 会合に提出するよう指示した。この概要には、最低限、観察漁獲努力量及び実際の漁獲努力量、オブザーバーカバー率、観察死亡数及び推定総死亡数を含むこととされている。本文書で提示した表及び数字は、主に ERSWG 15 に提出した文書 CCSBT-ERS/2406/04 をアップデートしたものである。

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.

EDE は 2013 年に開始され、まず 2010 年から 2012 年までのデータが提供された。それ以降は毎年データが提供されており、現時点では 2024 年までのデータが含まれている。2025 年のデータについては 2026 年 7 月 31 日が提出期限となっている。本文書で示した概要は、2025 年 12 月の時点で事務局が保有する全データに関するもので、ERSWG 15 において提示した概要にさらに 2 年間のデータを追加したものであり、また以前のデータにもいくらかの修正が加えられている。メンバーから提供された情報を下表 1 に示した。韓国は 2020 年又は 2021 年、日本は 2021 年又は 2022 年、またニュージーランドは 2024 年に科学オブザーバーを配乗しなかったので、これらのメンバーについては該当する年の ERS 捕獲データが存在しない。インドネシアは、2024 年のデータを提供していない。

*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.*
*表 1 - メンバー別 ERSWG データ交換データのサマリー。欧州連合は 2013－2024 年の SBT 漁獲を報告しておらず、したがってこれらの年に関するデータを何ら提出していない。インドネシアは全ての年についてデータを提供しているが、2010－2015 年の総漁獲努力量の推定値を提供することができていない。さらに、インドネシアは SBT を漁獲した又は漁獲対象とした投縄だけでなく同メンバーのはえ縄船団全体にかかるデータを提供しており、また当該データにおいて海鳥混獲緩和措置の使用状況に関する情報も提供していない。このためインドネシアのデータは、他のメンバーから提供されたデータと比較可能なものではない。*

| | 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%　E - 漁獲努力量データのみ提供 - オブザーバーカバー率は皆無

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.

ERSWG 13 において、メンバーは、空間的・時間的により解像度が高い形でデータを提供する新たな EDE テンプレートに合意し、また少なくとも 2019 年以降は新フォーマットでデータを提供することに合意した。メンバーが新フォーマットにより EDE データを提供したデータ年を下表 2 に示した。本文書には 2019 年以降の 5 度区画データを用いたマップを示した。

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

*表2 - CCSBT メンバーが新フォーマットに基づき5度区画の解像度でERSWG データ交換（EDE）データを提供したデータ年[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 fisher data provided, 79% of total New Zealand longline effort in 2024 used hook-shielding devices.
ERSWG 15 において、メンバーは EDE において網羅される混獲緩和措置の種類の一つとして鈎針被覆装置（HS）を追加することに合意した。HS は 2024 年のデータを網羅する 2025 年の EDE に含まれ、データが収集された。ニュージーランドを除く全てのメンバーについて、HS を使用した漁獲努力量は 0 % と報告された（なお、インドネシアは 2024 年のデータを提供していない）。ニュージーランドは、2024 年にオブザーバーを配乗しなかったので、海鳥混獲緩和措置の使用割合として漁業者から報告されたデータを提供した。漁業者から提出されたデータによれば、2024 年におけるニュージーランドの総漁獲努力量のうち 79 % が鈎針被覆装置を使用した。

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. 欧州連合は SBT を漁獲対象としておらず、また SBT の漁獲量は皆無と報告しているので、報告すべき ERS 関連データが存在しない。

[2] Australia, Indonesia, Korea, New Zealand, South Africa, Taiwan.　オーストラリア、インドネシア、韓国、ニュージーランド、南アフリカ、台湾

[3] Japan　日本

EDE の仕様はデータ提供テンプレートのとおりである。メンバーから受領したデータはテンプレートに従って提出されたものであるが、提供されたデータにおいて、種レベルの詳細さの水準には大きな違いがある。一部のメンバー[2]は種別データとして提供している一方で、他のメンバー[3]は EDE において「報告すべき情報にかかる最低限の分類レベル」として定義されている「種／種群」を用いて報告している。本文書で示した概要はメンバー横断的に集計したものであるため、提示できる最も詳細な共通レベルは「種／種群」となっている（種群については下表 3 のとおり）。

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

*表 3 ―ERSWG データ交換において報告されるべき情報にかかる最低限の分類レベル（当該分類情報が利用可能であることが条件）*

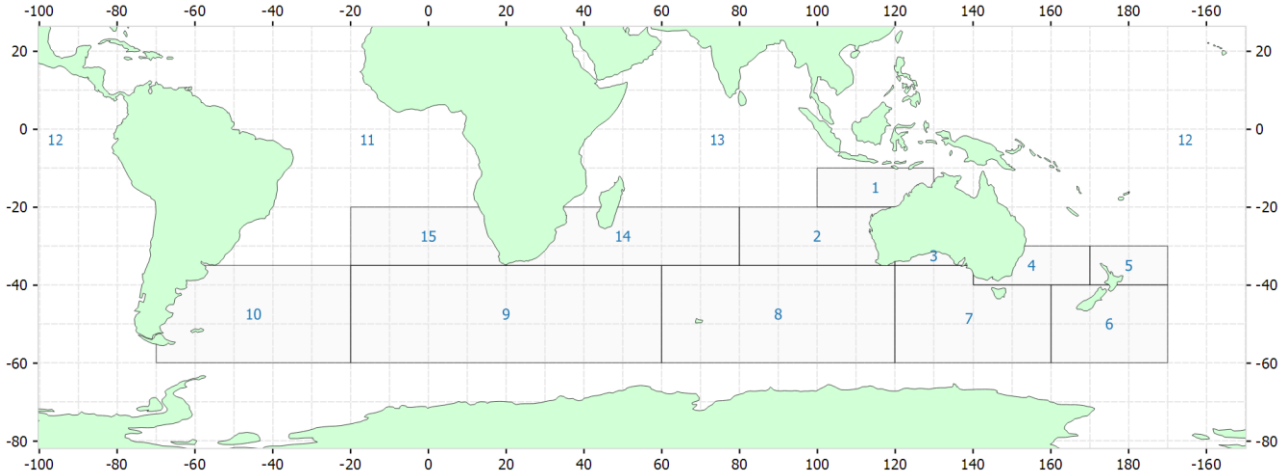
| **Species/Species Group** | **Comments** |
|---|---|
| Sharks | |
| Blue Shark | |
| Shortfin Mako Shark | |
| Porbeagle | |
| Other sharks | |
| Turtles | For sea turtles, the number of species is small (approximately 7), so it is feasible to report data by stratum for each species. |
| Species specific | *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.* |

| **種／種群** | **コメント** |
|---|---|
| サメ | |
| ヨシキリザメ | |
| アオザメ | |
| ニシネズミザメ | |
| その他 | |
| 海亀 | 海亀の種数は少ないため（約 7 種）、各種について、階層ごとにデータを提出することが実施可能。 |
| 種ごとに記載 | *データは、種ごとに分けて提供すべきである。* |
| 海鳥 | 海鳥に関しては、種数が非常に多く、画像だけでは種を同定することが困難なことが多い。種ごとに海鳥データを報告することで、種の同定ミスを招くこともある。 |
| 大型アホウドリ類 | *ワタリアホウドリ、ゴウワタリアホウドリ、オークランドワタリアホウドリ、アンティポデスワタリアホウドリ、ミナミシロアホウドリ及びキタシロアホウドリを含む。* |
| 暗色アホウドリ類 | *ススイロアホウドリ及びハイイロアホウドリを含む。* |
| その他のアホウドリ類 | *マユグロアホウドリ、キャンベルアホウドリ、ハイガシラアホウドリ、ニシキバナアホウドリ、ヒガシキバナアホウドリ、ミナミニュージーランドアホウドリ、タスマニアアホウドリ、サルビンアホウドリ、チャタムアホウドリ及びオークランドハジロアホウドリを含む。* |
| オオフルマカモメ類 | *ノドジロクロミズナギドリ、オオハイイロミズナギドリ、アカアシミズナギドリを含む。* |
| その他の海鳥 | *トウゾクカモメを含む。* |

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

参考までに、CCSBT 統計海区を下図 1 に示した。

*Figure 1 – CCSBT Statistical areas*
*図 1 - CCSBT 統計海区*




## Caveats of the Data
## データの注意点

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:
本文書に示した表及びマップを作成するために使用したデータに関しては、その数字を解釈する際に考慮しなければならない多数の注意点がある。重複を最小限とするため、全ての注意点を以下に列記した。

- 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.
  韓国は 2020 年又は 2021 年に、日本は 2021 年又は 2022 年に、またニュージーランドは 2024 年に科学オブザーバーの配乗を行わなかったので、これらのメンバーについては該当する年の ERS 捕獲データは存在しない。
- New Zealand had close to 100% EM coverage of its domestic fleet in 2024 and provided fisher-reported ERS capture data.This data has not been incorporated into the summaries since the EDE requires capture data from observers.
  ニュージーランドの国内船団に対する 2024 年の EM カバー率はほぼ 100 % であり、漁業者が報告した ERS 捕獲データを提供した。EDE はオブザーバーが報告した捕獲データを要件としているので、ニュージーランドのデータは本文書のサマリーに取り込まれていない。
- Indonesia has not provided data for 2024.
  インドネシアは 2024 年のデータを提供していない。
- 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%.
  日本は同メンバーの 2016 年及び 2017 年のオブザーバーデータを修正し、2017 年の報告オブザーバーカバー率は 100 万鈎針以上（50 % 以上）減少した。
- 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.

インドネシアは 2010－2016 年の総漁獲努力量の推定値を提供することができておらず、また漁獲努力量データが提供された場合であっても同メンバーの全はえ縄船団に関するデータであり、SBT が漁獲対象とされた又は SBT を漁獲した投縄に関する CCSBT 許可漁船による漁獲努力量ではない。このため、インドネシアのデータは、他メンバーから提供されたデータと比較可能なものではない。

- 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.
  総死亡数の推定にあたっては、モデルベースではない単純な計算方法が用いられている。多くの階層においてオブザーバーカバー率が低水準であるために引き伸ばしの計数が大きくなり、また観察の結果に代表性がないリスクも高くなることから、これらの数値は慎重に取り扱う必要がある。
  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%. CCSBT 回章 #2019/023 を通じて、日本は、*「2018 年 12 月に、遠洋水産研究所（NRIFS）は水産庁に対し、南半球の高緯度海域で操業する日本のみなみまぐろ大型はえ漁船に関して記録した特定のオブザーバー報告書につき、海鳥及びその他の種に関して疑義のある及び／又は不正な記載があることを確認した旨を報告した。このことを受けて、水産庁はそうしたオブザーバー報告書に対する調査を開始したところである」*ことを述べた 2019 年 3 月 28 日付けレターを提出した。その後の 2019 年 5 月に、日本は、EDE に対して 2016 年及び 2017 年の修正データを提供した。これにより、2017 年における日本のオブザーバーカバー率は 100 万鈎針以上（50 % 以上）低下した。

**Effort Summaries**
**漁獲努力量の概要**

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.
EDE にかかる規則のとおり、メンバーから提供される漁獲努力量データは、SBT を漁獲対象とするか又は漁獲した CCSBT 許可船舶による投縄数をベースとする漁獲努力として定義される。

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).
旗別、漁具別、船団別、年別及び CCSBT 統計海区別のオブザーバーカバー率を別紙 A に示した。最後の欄の「代表性」とは、SMMTG 勧告のとおり、漁獲があった統計海区のうちオブザーバーカバー率が 10 % 目標に達した統計海区の割合を示す。漁獲があった全ての年において 100 % の代表性を維持しているのは、ニュージーランド用船（2015 年以

降、ニュージーランド域内で操業していない）と南アフリカ用船（2020 年は操業せず、また 2022－2024 年は SBT の漁獲がなかった）の 2 船団のみとなっている。

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.
統計海区別はえ縄漁獲努力量の概要は別紙 B の表及び別紙 C のマップのとおりであり、また 5 度区画別はえ縄漁獲努力量のマップは別紙 C のとおりである。マップ上の円の大きさは当該海域における総鈎針数に対して比例しており、うち黄色の切片は観察鈎針数の割合を示している。尺度は全年を通して統一されている。

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.
過去 15 年間におけるはえ縄オブザーバーカバー率は平均で総漁獲努力量の 13.4 % となっているが、海区及び年によってカバー率に相当のばらつきがある。2017 年及び 2018 年については、日本が同国のオブザーバーデータの相当部分を削除したため、同メンバーのオブザーバーカバー率は 10 % 未満となった。また、日本の 2021 年及び 2022 年におけるオブザーバーカバー率は皆無である。2020 年及び 2021 年のオブザーバーカバー率は、COVID-19 パンデミックの影響を受け、ほとんどのメンバーがカバー率 10 % を達成できず、韓国はこれらの年においてオブザーバーを配乗できなかった。2 全メンバーを合わせた 2023 年及び 2024 年のはえ縄オブザーバーカバー率は過去（2019 年は除く）を大幅に上回っており、全体カバー率が各年 19.3 % 及び 22.4 % であった。

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.
表 4 では、海鳥類に関して重要と考えられる海区でのはえ縄漁獲努力に対するオブザーバーカバー率のパーセンテージを示した。当経海区 2 及び 8、海区 5 及び 6 はそれぞれ統合した。

*Table 4 – Longline observer coverage by year for areas that are important for seabirds.*
*表 4 - 海鳥類に関して重要な海区別のはえ縄オブザーバーカバー率*

| | 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.
まき網漁獲努力量の概要は別紙 E の表及び別紙 F のマップのとおりである。マップ上の円の大きさは当該海区における総投網数に比例しており、うち黄色の切片は観察投網数の割合を示している。過去 15 年間における平均オブザーバーカバー率は 16.41 % を超えているが、2015 年及び 2022 年は 10 % を下回った。特定の年の投網数が少ない一部の統計海区では、オブザーバーカバー率が皆無であった。

**Observed Mortality Summaries**
**観察死亡数の概要**

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.
別紙 G の表に SBT はえ縄漁業における年別、統計海区別及び種／種群別の観察死亡数を示した。一方、別紙 H 及び J のマップでは、海鳥類とさめ類の CCSBT 統計海区別観察死亡数の分布をそれぞれ示した。別紙 I 及び K のマップでは、5 度区画別の観察死亡数の分布を示した。円グラフのマップにおいて、円の大きさは総観察死亡数に比例しており、その切片は各種／種群の割合を示している。尺度は全年を通して統一されている。

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.
海区別の観察海鳥死亡数は年によって大きく異なる。2017、2020 及び 2021 年における観察海鳥死亡数は低くなっているが、これはそれらの年に関して利用可能なオブザーバーデータの量が少ないことに起因している可能性があり、その解釈には十分な注意を要する。死亡数の相当部分が「その他のあほうどり類」及び「その他の海鳥類」のカテゴリに含まれており、一部の未同定の海鳥類は別のカテゴリに含まれている可能性があることに留意されたい。

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.
また、さめ類の観察死亡数も年によって大きく異なる。漁獲されたさめの大部分には生存状態の情報が付されていない点に留意するとともに、漁獲率の関するチャート及び議論（及び別紙 I）を参照されたい。一部のメンバーは EDE の数字に投棄死亡数のみを計上して保持された漁獲量については計上していなかったのに対し、他のメンバーは両方を計上

してきた。これは主に EDE の旧フォーマットに従って提供されてきたデータ（2017 暦年以前に提供されたデータ）に伴う問題で、新フォーマットでは保持漁獲量を明示的に含んでいるものの、一部のメンバーは死亡率を計算する際に保持漁獲量を含めていなかった。韓国は、この問題に対応するため、新たな EDE フォーマットにより修正した過去のデータを提供した。オーストラリアは修正した 2016－2018 年のデータを 2022 年 12 月に提供した。

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).
表 5 では、年別・統計海区別に総海鳥死亡数を示した。総海鳥死亡数のうち 85 % が海区 7、8 及び 9 で発生した。2024 年の総海鳥観察死亡数は、オブザーバーデータが欠落していない過去の年よりも低いようである。ただし、海区 5 及び 6 については捕獲データが存在しないことに注意する必要がある（注意点のセクションを参照）。

*Table 5 - Observed mortalities for the SBT longline fishery for all seabirds combined by year and statistical area[4].*
*表 5－年別・統計海区別の SBT はえ縄漁業における海鳥全体の観察死亡数*

| | 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.
表 6 では、年別・統計海区別・種／種群別の SBT まき網漁業における観察死亡数を示した。いずれの年においても死亡は報告されていない。

[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). 2017、2020、2021、2022 及び 2024 年の観察死亡数が低いことについて、少なくともその一部は、一つ以上のメンバーのオブザーバーデータが欠落していたことに起因する（表 2 及び「データに関する注意点」のセクションを参照）。

*Table 6 - Observed mortalities for the SBT purse seine fishery by year and species/species group*
*表 6－年別・種／種群別の SBT まき網漁業における観察死亡数*

| 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
## 観察捕獲数の概要

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

別紙 L の表に SBT はえ縄漁業における年別、統計海区別及び種／種群別観察捕獲数を示した。

## Observed Catch Rate and Mortality Rate Summaries
## 観察捕獲率及び死亡率の概要

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.

別紙 M の表に SBT はえ縄漁業における年別、統計海区別及び種／種群別観察捕獲率を示した。一方、別紙 N 及び O のマップでは、海鳥類及びさめ類の CCSBT 統計海区別観察捕獲率の分布をそれぞれ示した。円グラフのマップにおいて、円の大きさは総観察捕獲率に比例しており、その切片は各種／種群の割合を示している。尺度は全年を通して統一されている。

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’)).

別紙 P では、種群ごとの年別観察捕獲率（1,000 鈎針当たりの捕獲数）を示した。棒グラフは状態別に色分けされており、観察された死亡は赤色、観察された生存放流は緑色、「生存状態不明」は灰色となっている（メンバーは、総捕獲数、死亡が観察された個体数、生存放流が観察された個体数を各種ごとに提出している。「生存状況不明」の数は、「総捕獲数」と（「観察死亡数」＋「観察生存放流」）との差分として算出されている）。

Attachment Q shows observed catch rates by species group, year, and statistical area.
別紙 Q では、種群別・年別・当経過行く別の観察捕獲率を示した。

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.
別紙 R 及び T のマップでは、海鳥類及びさめ類の CCSBT 統計海区別死亡率を示した。円グラフのマップにおいて、円の大きさは総観察捕獲率に比例しており、その切片は各種／種群の割合を示している。各マップの尺度は全年を通して統一されている。

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 10,000 observed hooks.
別紙 T 及び O では 2014 年及び 2017 年の統計海区 15 のデータが除外されていることに留意されたい。これらのデータポイントでは、あおざめ及びよしきりざめの捕獲率及び死亡率が極めて高くなっていたが、観察鈎針数は 10,000 鈎針に満たなかった。

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.
鳥類の観察捕獲数及び死亡率は、生存放流の割合が低かったために類似した水準になっている。2017 年及び 2021 年における全体の海鳥死亡率は最低水準となっているが、これは最も海鳥が多く捕獲される海域でのオブザーバーカバー率が低いことに起因している可能性が高い。このデータシリーズにおいて、2024 年の全体的な海鳥捕獲率は 3 番目に低かったが、海区 5 及び 6 の捕獲情報が欠落している。

Attachments S and U map mortality rates by 5x5 degree squares for seabirds and sharks respectively.
別紙 S 及び U のマップでは、海鳥類及びさめ類の 5 度区画別死亡率をそれぞれ示した。

**Summaries of the Estimated Total Number of Mortalities**
**推定総死亡数の概要**

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.
旧 ERSWG データ交換テンプレートには、年／階層別の推定総死亡数に関する欄が含まれている。この旧テンプレートを用いて提供されたデータにおいて、この欄については 7 メンバーのうち 4 メンバーから全年のデータが提供されており、本報告でもデータを使用しているが、1 メンバーはいずれの年についてもデータを提供しておらず、2 メンバーは最近の数年に関して一部のデータしか提供していない。推定総死亡数が提出されている場合、大部分のメンバーは階層のオブザーバーカバー率に基づく観察死亡数の単純な引き伸ばしを行っており、端数を（端数が 0.5 より大きい場合であっても）切り捨てている。旧フォーマットで提供されたデータにおいて、当該欄の数字を提出しなかった 3 メンバーに関する推定総死亡数については、他のメンバーから提供されたデータとの整合性を保つため、階層のオブザーバーカバー率により観察死亡数を引き伸ばした上で最も近い整数まで端数を切り捨てることにより算出した。

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:
ERSWG 13 において、メンバーが新 EDE テンプレートに合意した際、事務局が以下の手法を用いて、新フォーマットで提供されたデータから推定総死亡数を計算することも合わせて合意された。

> “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.”
> 「引き伸ばし総死亡数は、各統計海区における船団別・年別の観察死亡数と観察漁獲努力量のシンプルな引き伸ばし比率を総漁獲努力量に乗じることで推定する。より解像度を高めた引き伸ばし推定値（例えば 5 度区画・四半期）に関しては、各統計海区における船団別・年別で計算した比率を、より高い解像度の区画に乗じることとなる。」

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.
事務局は、新 EDE テンプレートにより提供された全データ（表 1 を参照）に対して上記の手法を適用した。より解像度を高めたデータに年別・海域別の引き伸ばし率を適用する手法であることから、バイアスがかかる可能性がある高解像度での推定総死亡数は提示していない。

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.
総死亡数の推定にはモデルベースではない単純な手法を用いており、また多くの階層でオブザーバーカバー率の低さ故に引き伸ばす際の係数が大きくなり代表的な観測結果が得られないリスクが高いため、ここでの数字は慎重に取り扱う必要があることに留意されたい。

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.

別紙 V の表では、SBT はえ縄漁業における年別・統計海区別・種／種群別の推定総死亡数を示した。別紙 W 及び X は、海鳥類及びさめ類の推定総死亡数の分布をそれぞれマップに落とし込んだものである。観察死亡数と同様に、円の大きさは推定総死亡数に比例しており、その切片は各種／種群の割合を示している。尺度は全年を通して統一されている。

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.
海区別の海鳥の推定総死亡数の分布は、観察死亡数の分布と類似しており、また年によって大きく異なっている。また、「その他のあほうどり類」及び「その他の海鳥類」に分類されている海鳥類の数が比較的多くなっており、未同定の海鳥類の一部は異なるカテゴリに帰属させられている可能性もある。

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.
海区別のさめの推定総死亡数の分布についても、さめの観察死亡数の分布と極めて類似し、また年によって大きく異なっており、他のさめ種に比べて非常に多数が漁獲されているよしきりざめを除き、明確な視覚的パターンを読み取ることは困難である。

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.

表 7 では、鳥類全体の推定総死亡数を示した。観察死亡数に関する表 5 と同様に海区 7、8 及び 9 が最も多いが、海区 4 でも多くなっている。各年間の死亡数を比較する際は、「データに関する注意点」のセクションに列記した内容に留意することが重要である。

*Table 7 – Estimated total mortalities for the SBT longline fishery for all seabirds combined by year and statistical area[4].*
*表 7 ―SBT はえ縄漁業における年別・統計海区別の鳥類全体の推定総死亡数*

| | 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.
表 8 では、SBT まき網漁業における年別・統計海区別・種／種群別の推定総死亡数を示した。観察死亡はないので、同漁業における推定総死亡数もゼロである。

*Table 8 - Estimated total mortalities for the SBT purse seine fishery by year, statistical area and species/species group*
*表 8 ―SBT まき網漁業における年別・統計海区別・種／種群別の推定総死亡数*

| 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
## 特定の混獲緩和措置別の観察漁獲努力量の概要

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.
メンバーは、ERSWG 11 以降、特定の混獲緩和措置別の漁獲努力量の割合を提供するよう要請された。2014 年から 2024 年まで（これより以前についてはほとんどのメンバーにおいてデータが利用可能でない）のこれらのデータ全体を集計した概要を表 9 に示した。「2 つの措置のミックス」欄は、操業中を通して 2 つの措置が使用されたが夜明けを境に夜間投縄／トリポールからトリポール／荷重枝縄にスイッチした場合を含んでいる。1 つの措置のみ使用、又は措置なしでの漁獲努力量の割合が過去最高となったのは 2021 年で、同年における混獲緩和措置 1 つのみ使用又は措置使用なしの漁獲努力量は 60 % を超えたが、この割合は 2018 年以降の全ての年において総漁獲努力量の 30 % を上回っている。

*Table 9 - Proportions of observed effort with specific mitigation measures by year.*
*表 9－特定の混獲緩和措置別・年別の観察漁獲努力量の割合*

| | 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.
別紙 Y の表では、年別・統計海区別に、特定の混獲緩和措置ごとの観察漁獲努力量の割合の概要を示した。

**Prepared by the Secretariat**

**事務局作成文書**

*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% |

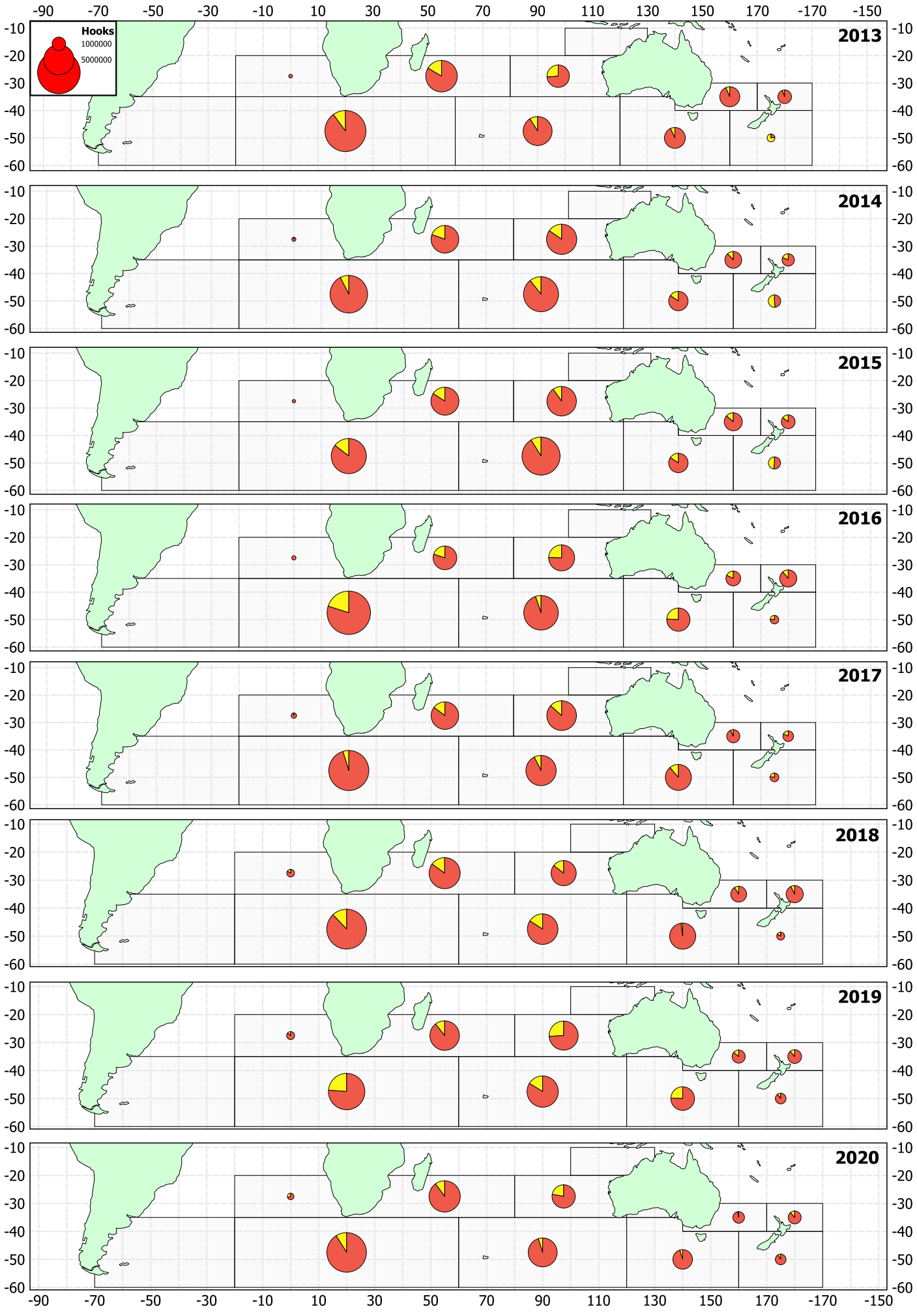
*Longline effort by year and statistical area, with observer coverage*

| 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%*** |

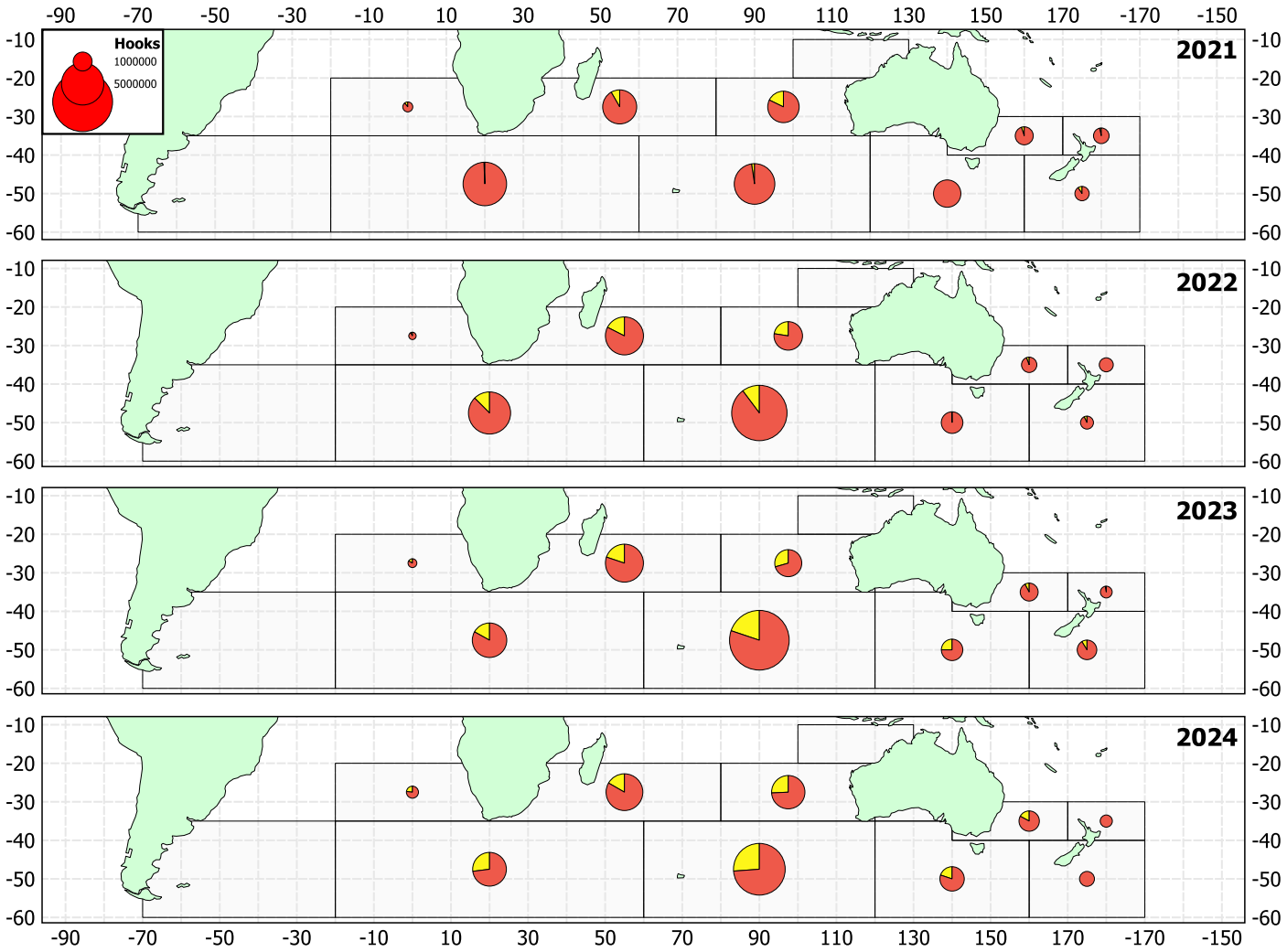
| Year | Statistical area | Total effort (1000s of hooks) | Observed effort (1000s of hooks) | Observer coverage |
|---|---|---|---|---|
| **2016** | 2 | 4,971 | 1,224 | 24.6% |
| | 4 | 1,601 | 290 | 18.1% |
| | 5 | 2,153 | 242 | 11.2% |
| | 6 | 539 | 130 | 24.1% |
| | 7 | 3,976 | 962 | 24.2% |
| | 8 | 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%*** |

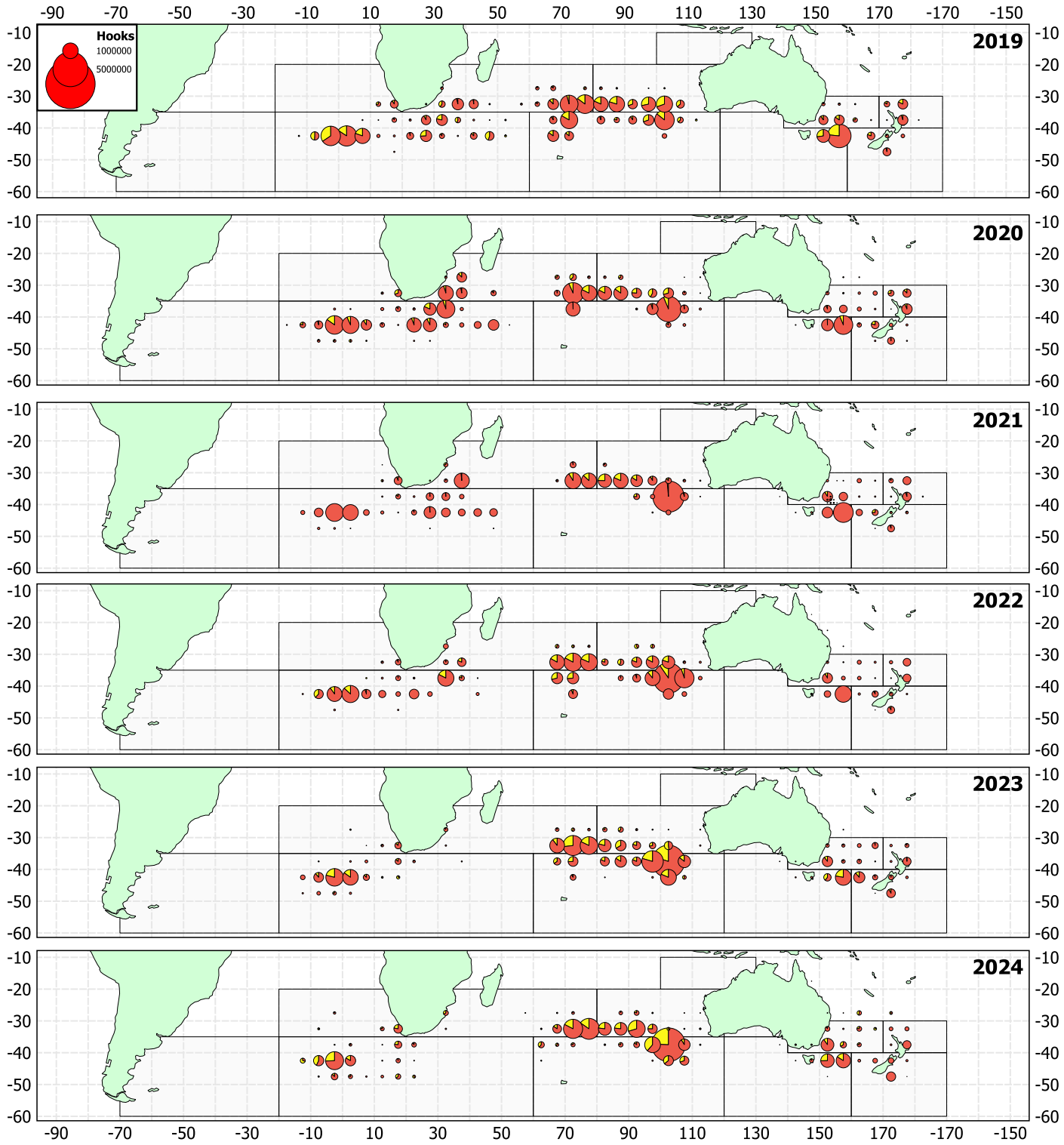
# Longline SBT effort showing observer coverage (yellow)



## Longline SBT effort showing observer coverage (yellow)



## Longline SBT effort showing observer coverage (yellow)

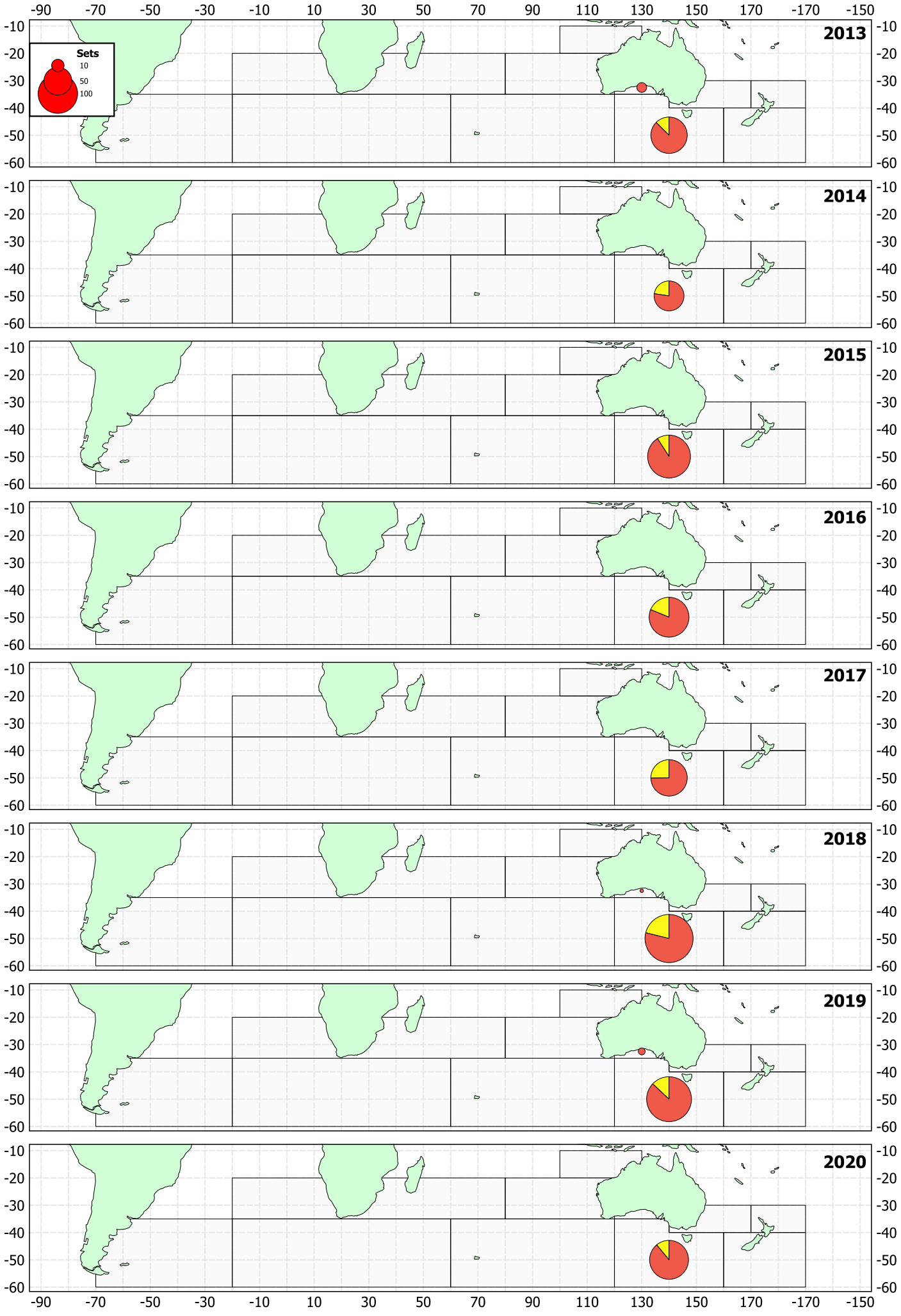


*Purse seine effort by year and statistical area, with observer coverage*

| 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%** |

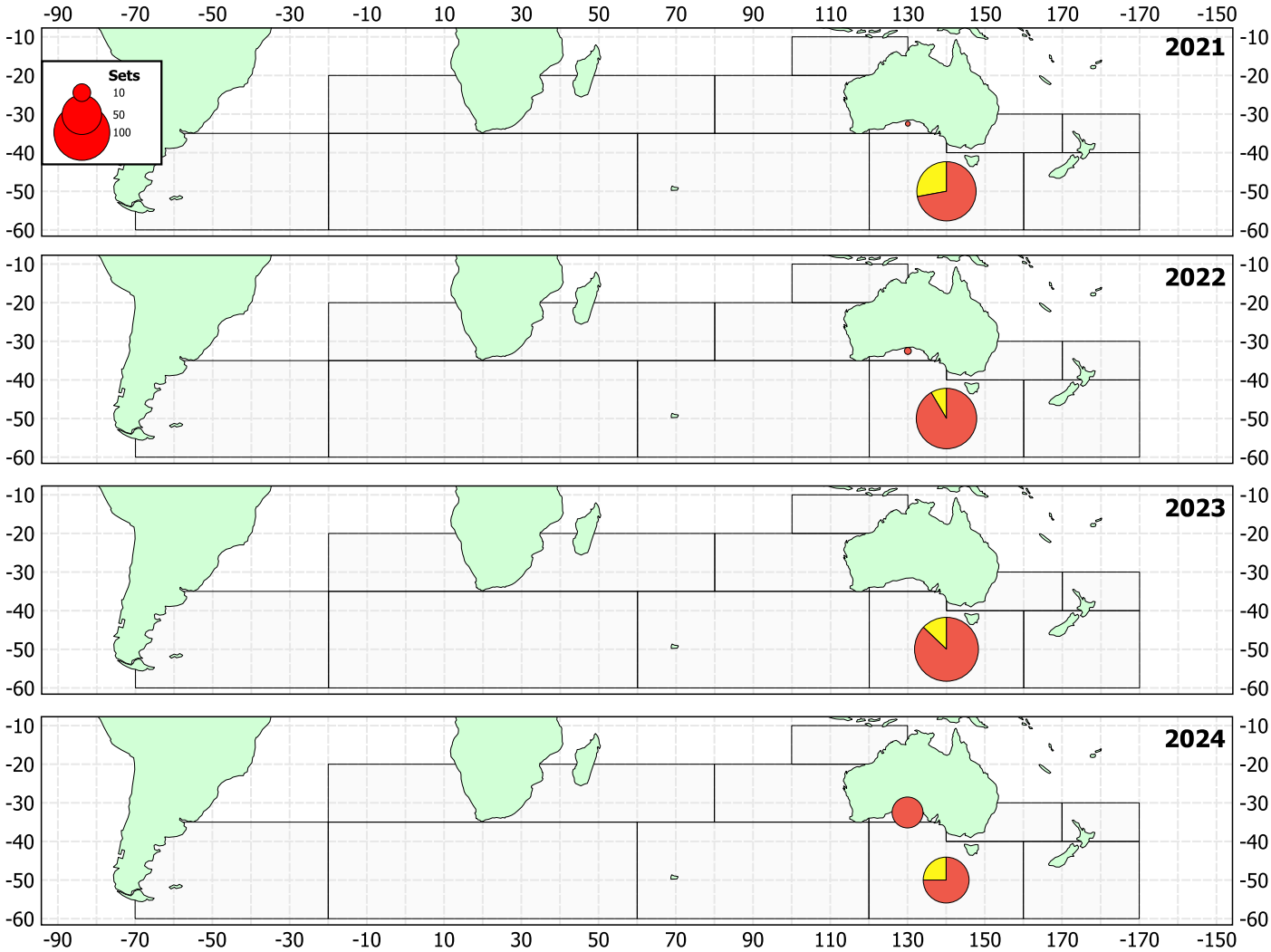
**Purse seine SBT effort, showing observer coverage (yellow)**

**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).*

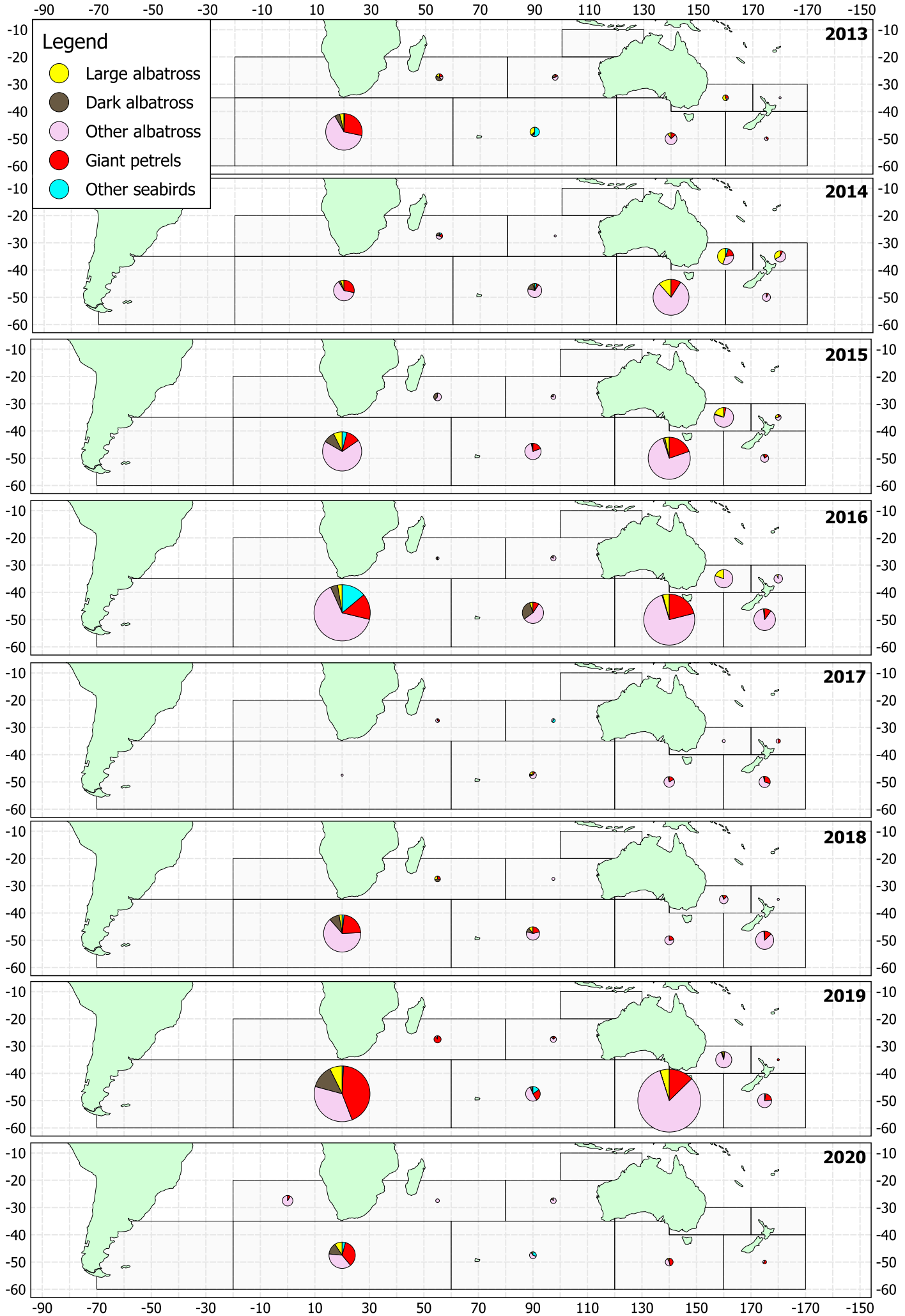
| Year | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 2 | 404 | 28 | 0 | 69 | 0 | 0 | 1 | 23 | 1 | 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*** |

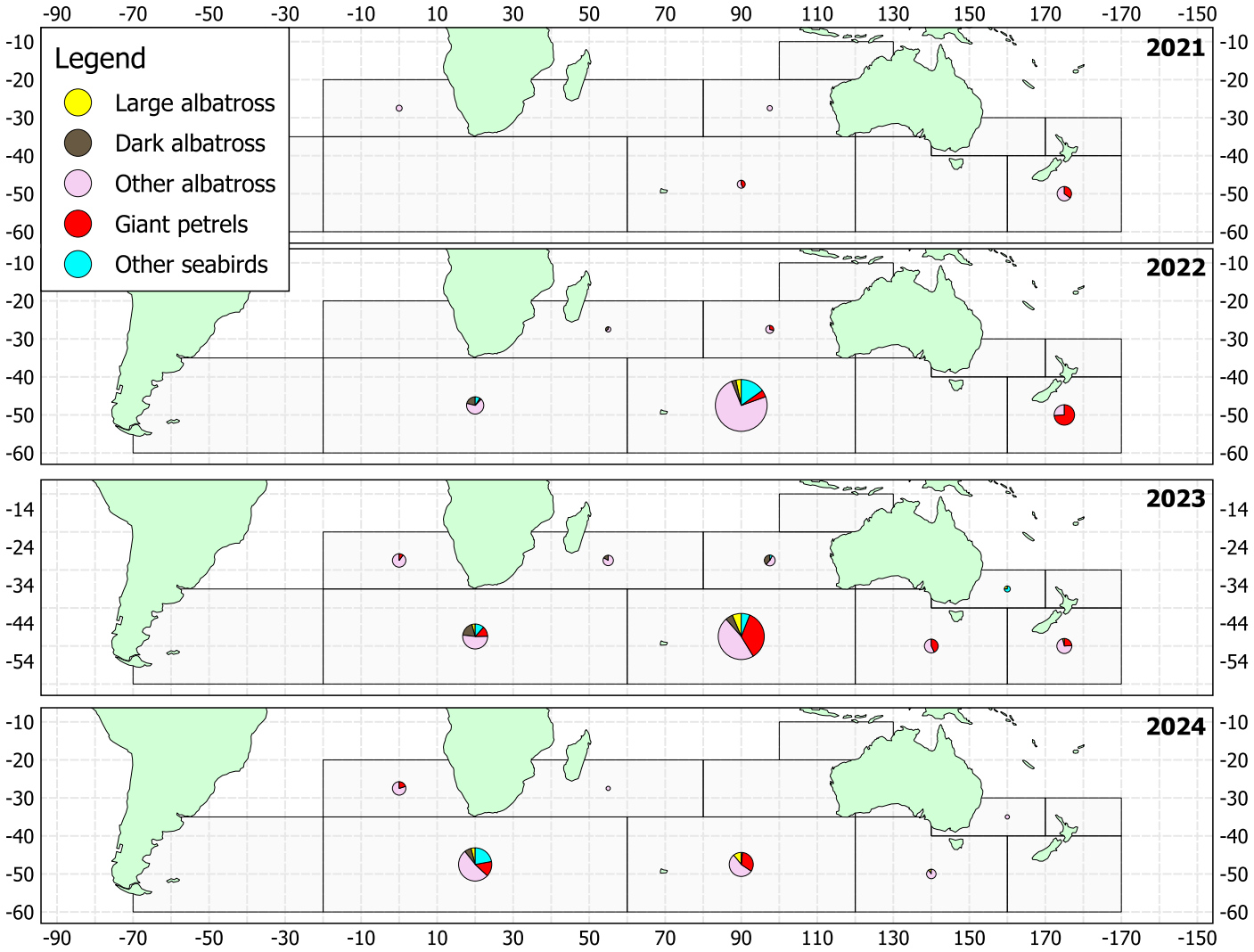
**Observed bird mortalities for the SBT longline fishery** **Attachment H**

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



**Attachment H**

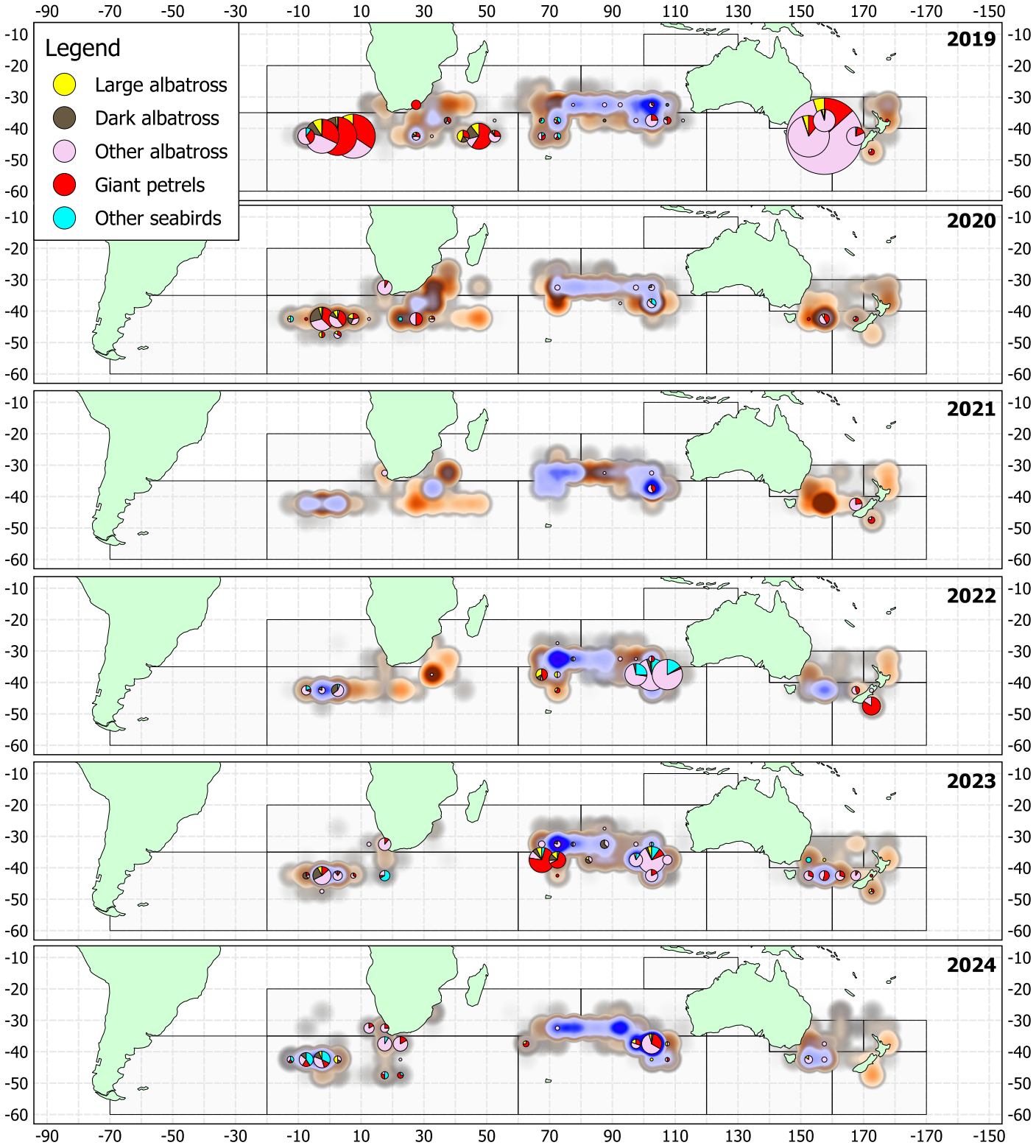
## Observed bird mortalities for the SBT longline fishery



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

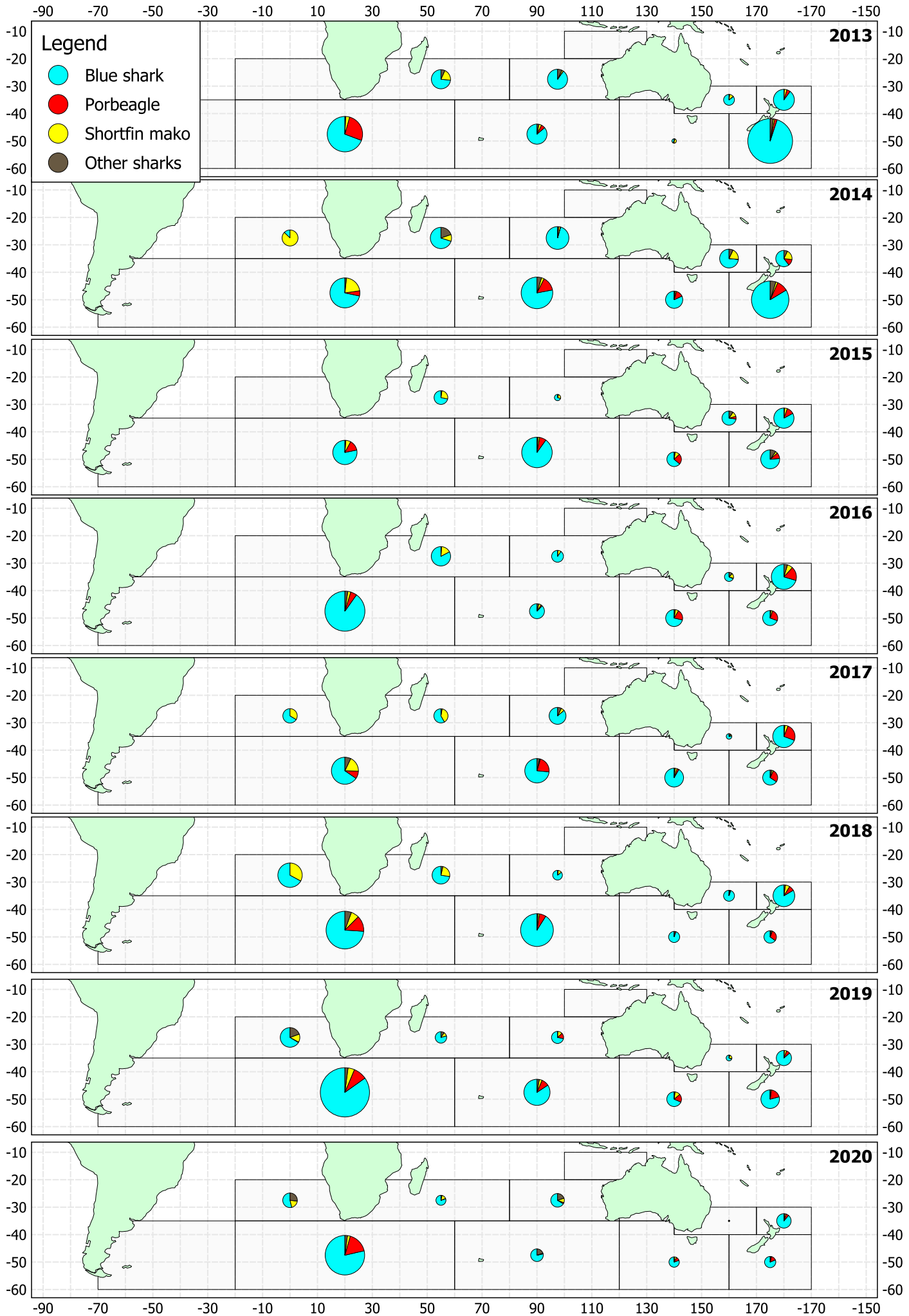
**Attachment I**

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.

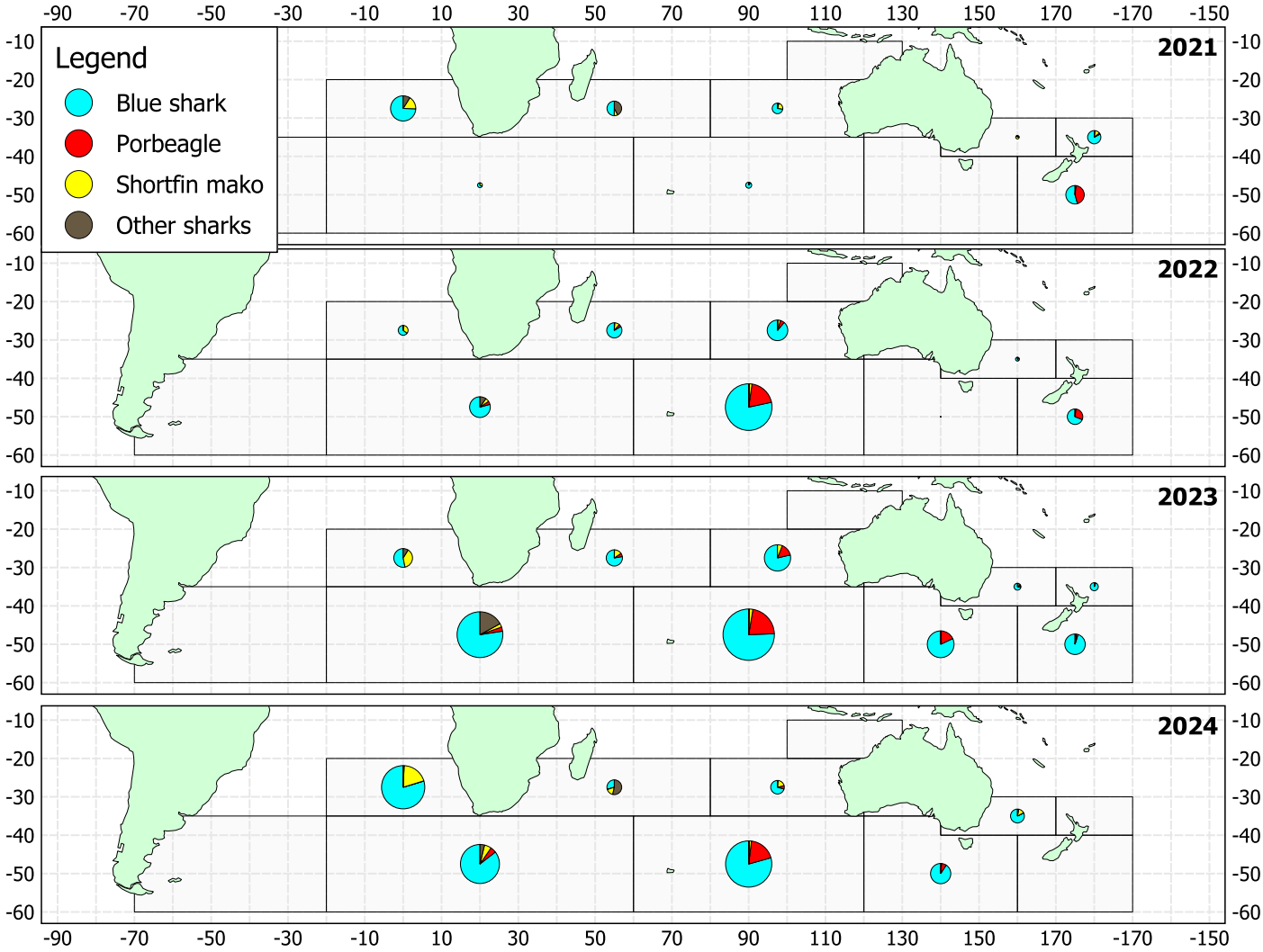


**Observed shark mortalities for the SBT longline fishery** **Attachment J**

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



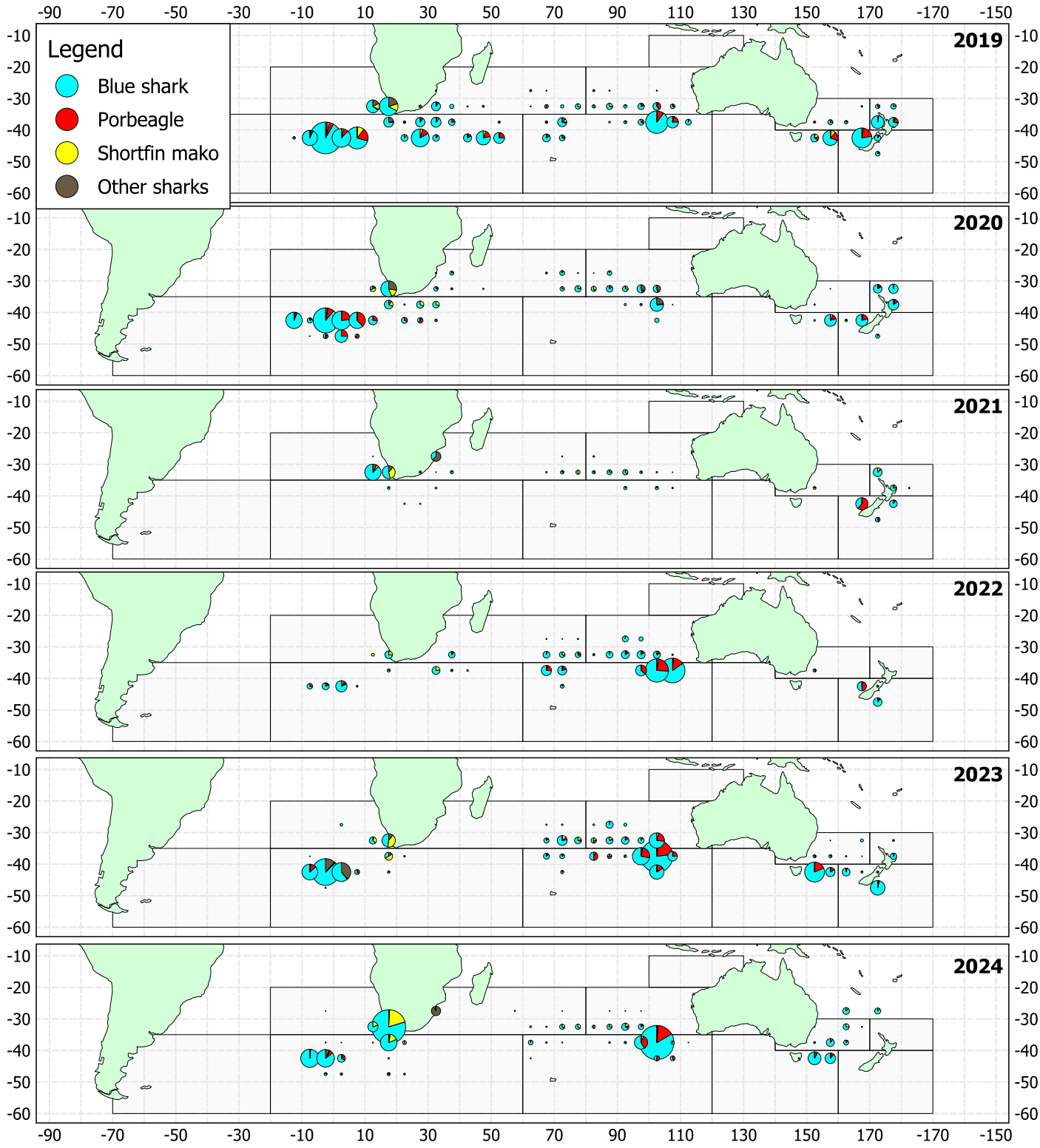
## Observed shark mortalities for the SBT longline fishery



# 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 |

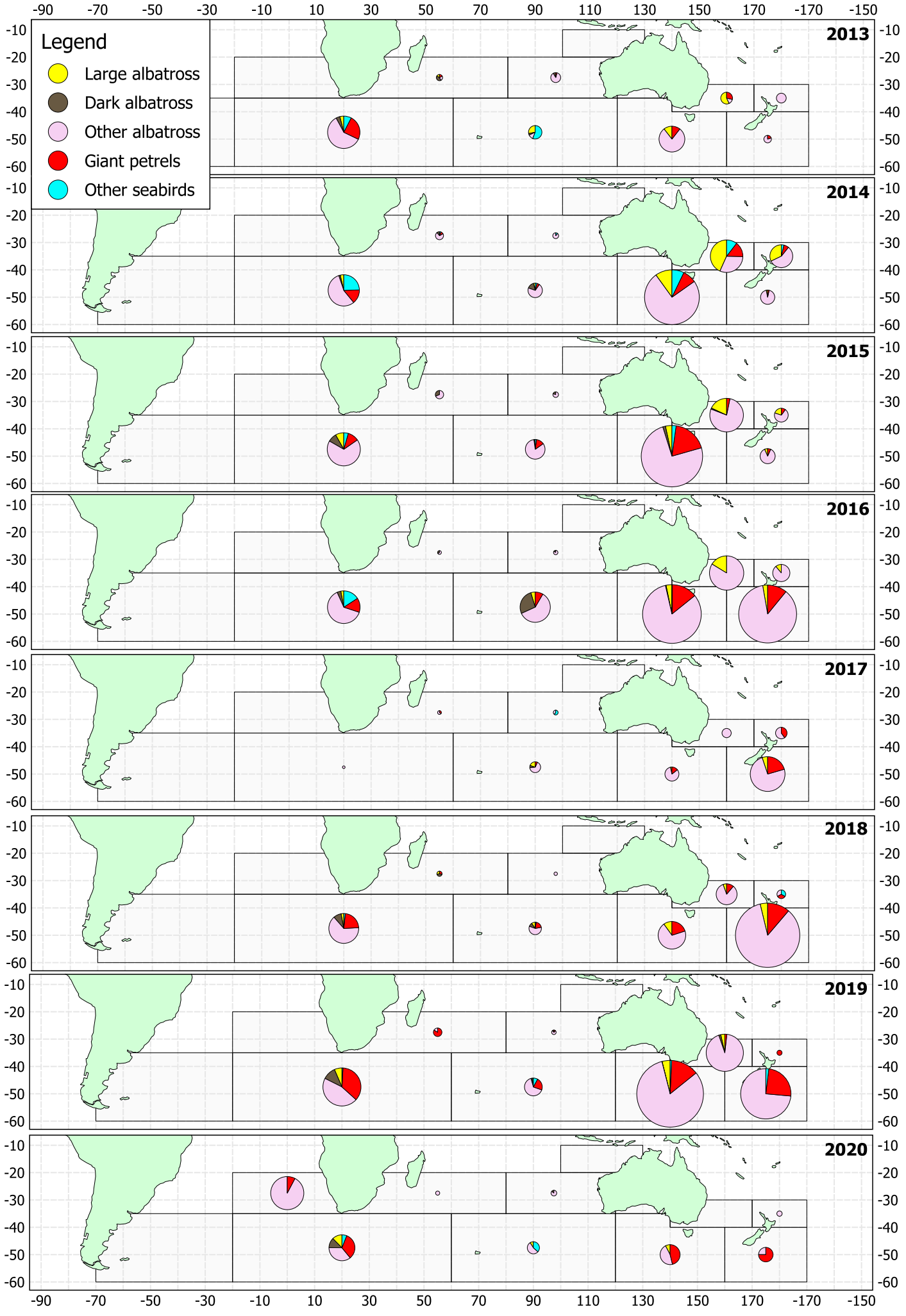
| | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2016** | 2 | 0.297 | 0.033 | 0.000 | 0.102 | 0.000 | 0.000 | 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 |

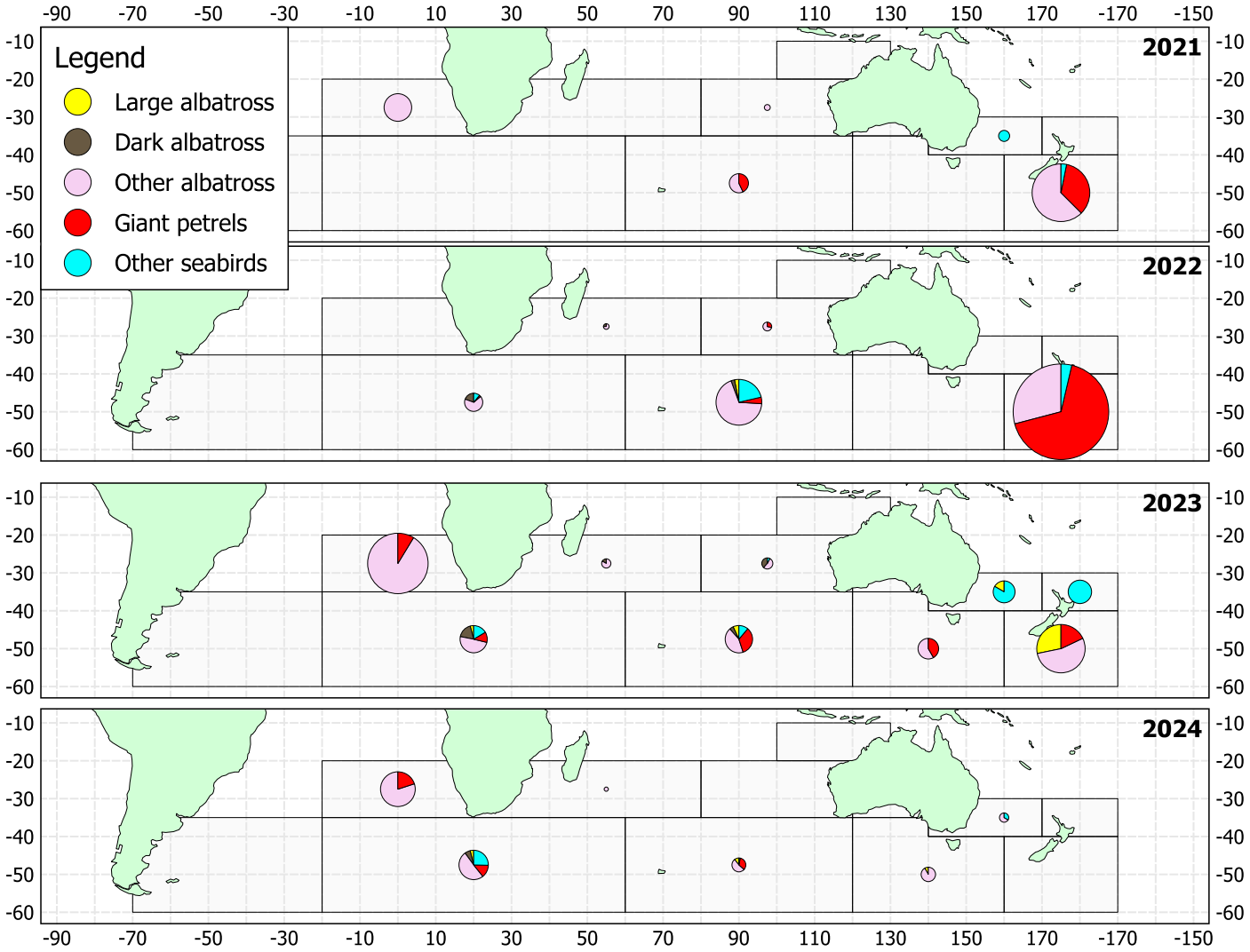
# Observed bird capture rates for the SBT longline fishery

**Attachment N**

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



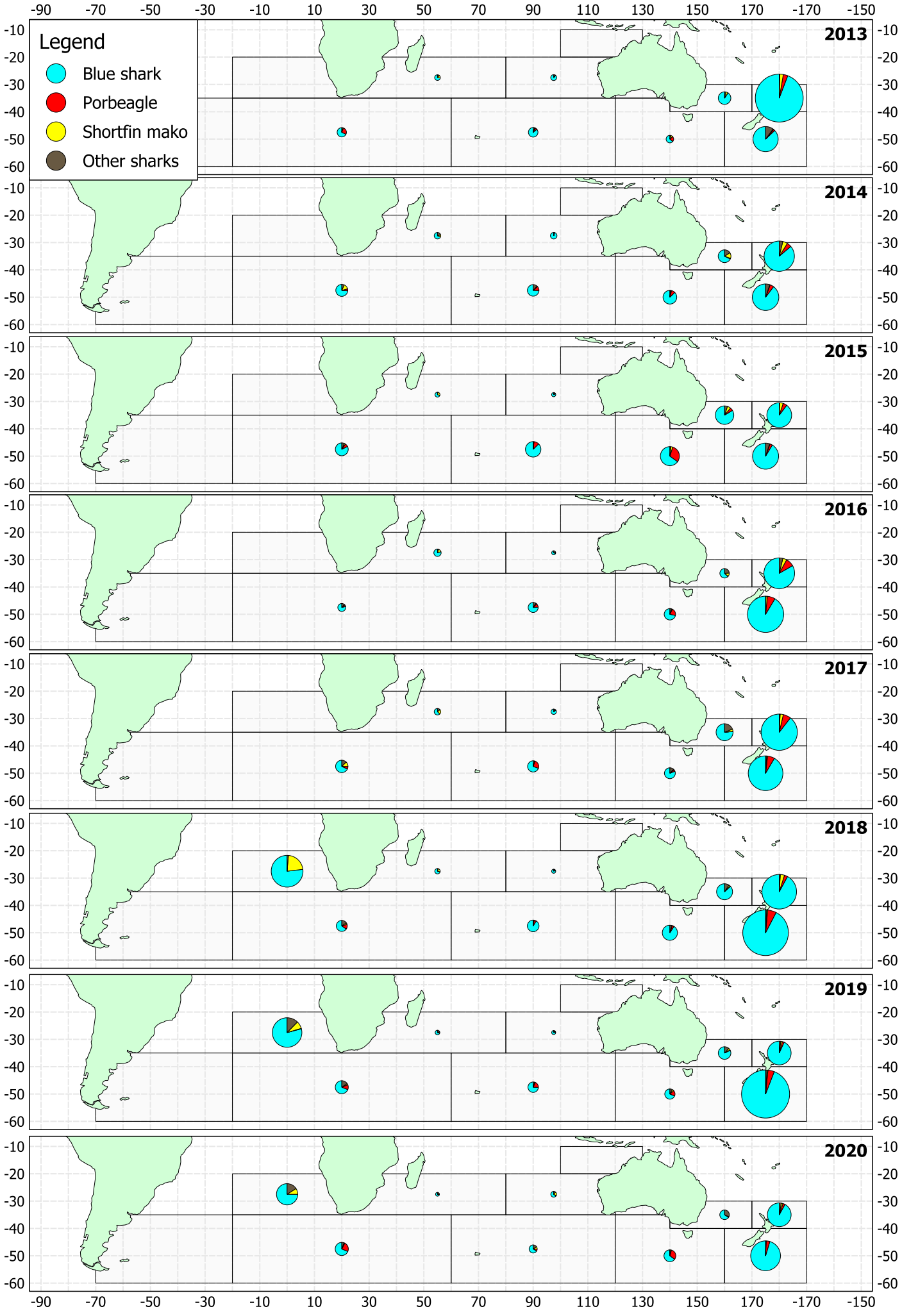
## Observed bird capture rates for the SBT longline fishery



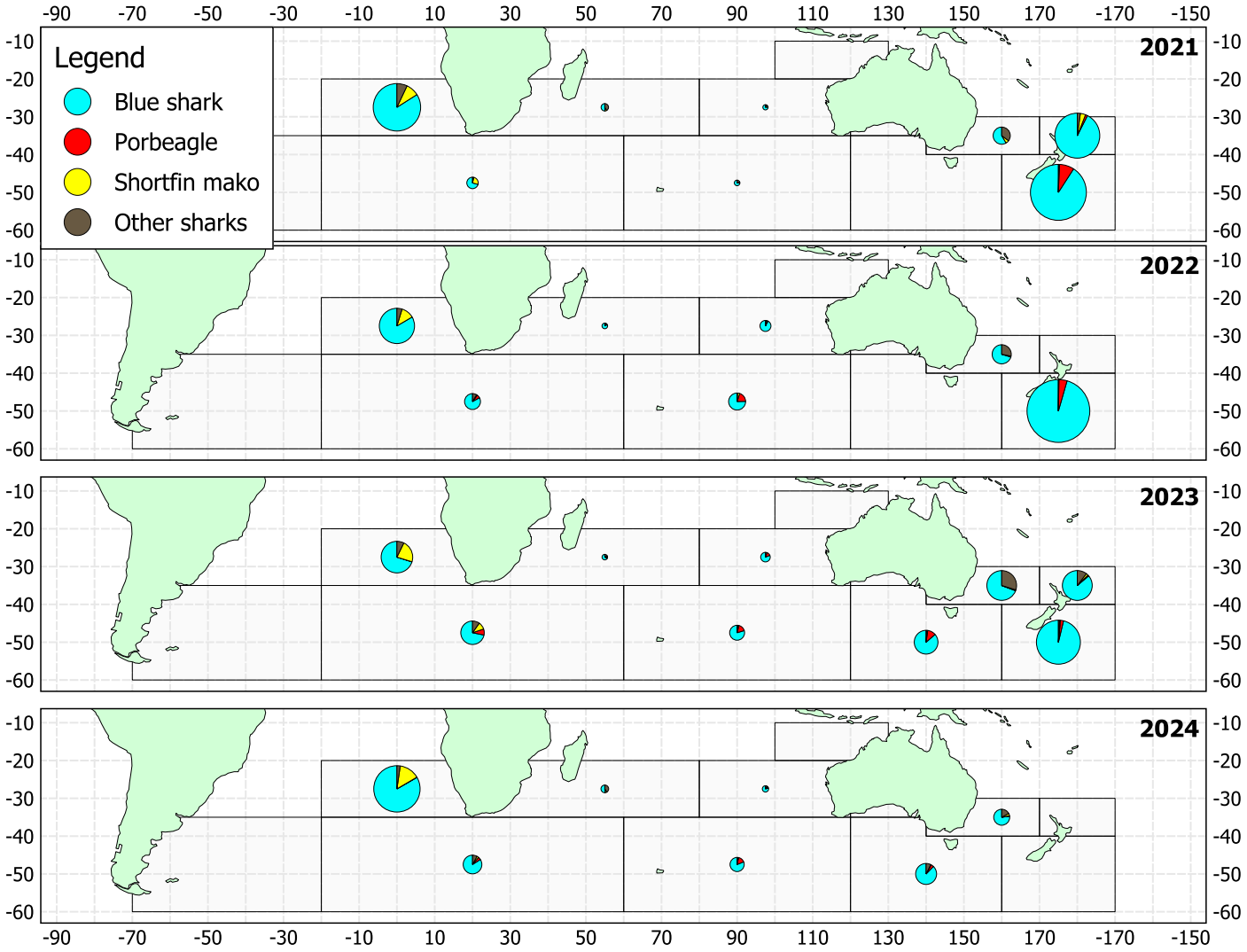
# Observed shark capture rates for the SBT longline fishery

**Attachment O**

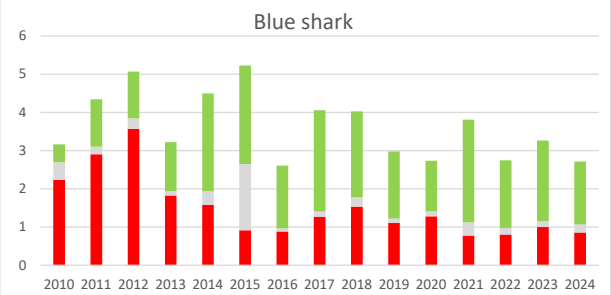
Refer to the 'Caveats of the Data' section of the main text before interpreting the results.

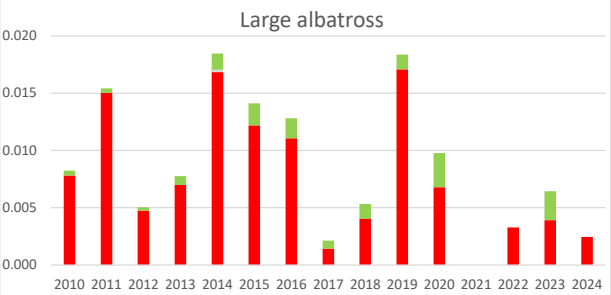


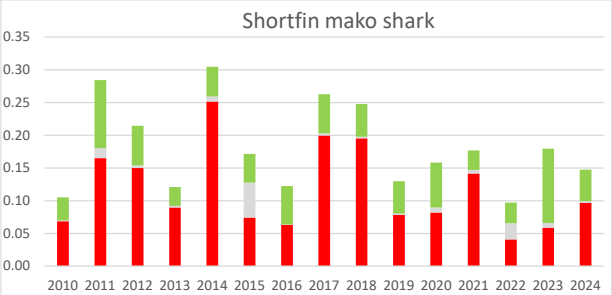
## Observed shark capture rates for the SBT longline fishery

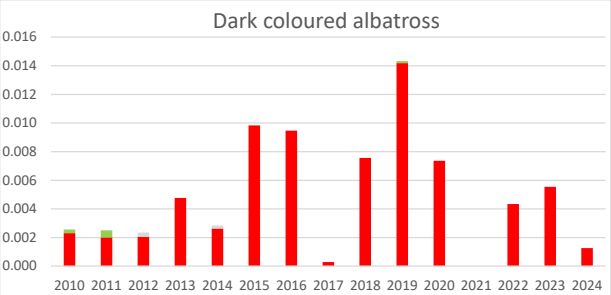


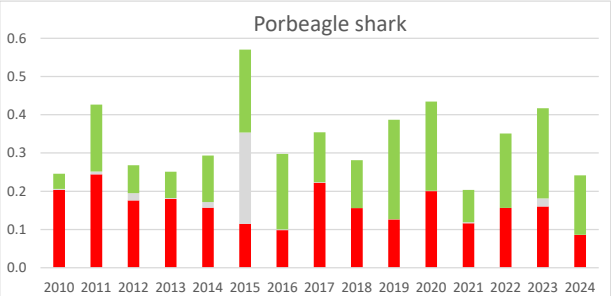
*Observed capture rates (numbers per 1000 hooks) with proportions of observed mortalities (red), observed live releases (green) and unspecified life status (grey) for the SBT longline fishery by year and species/species group (refer to the 'Caveats of the Data' section before interpreting the results).*

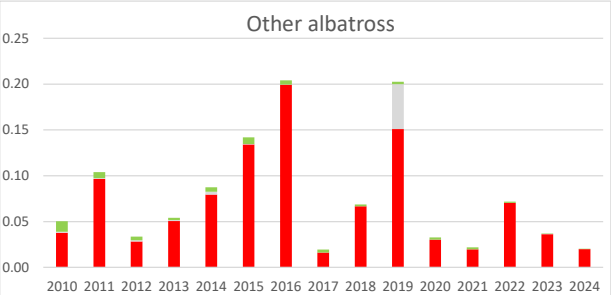


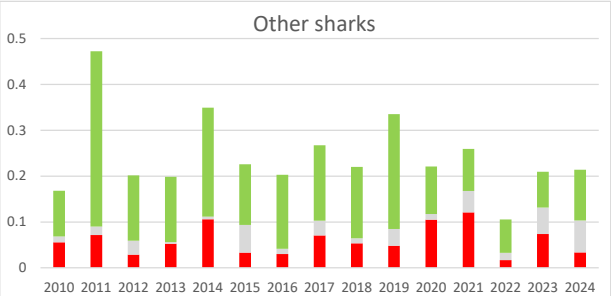



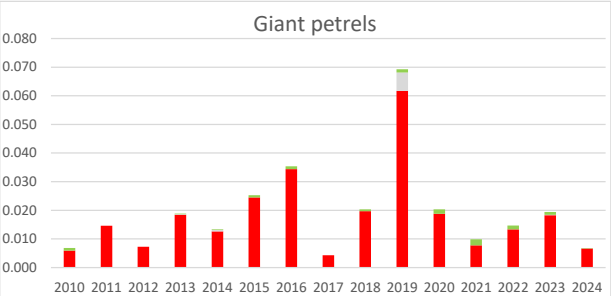



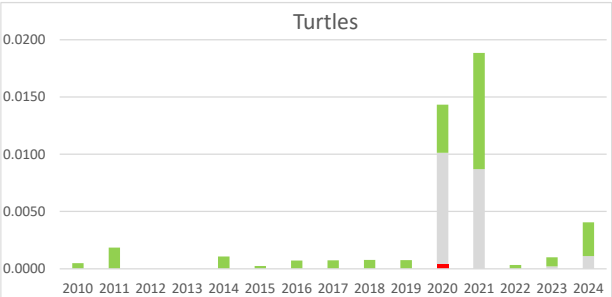



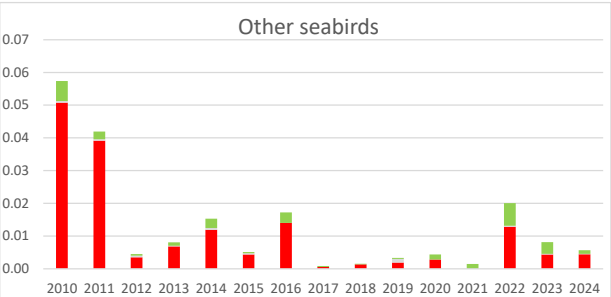



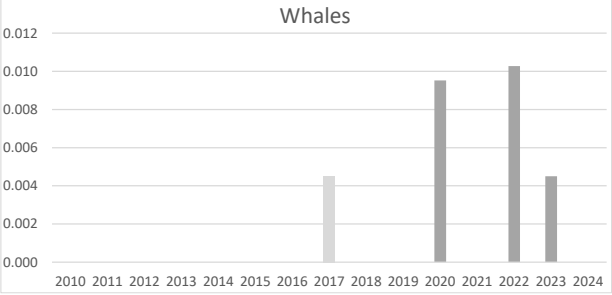



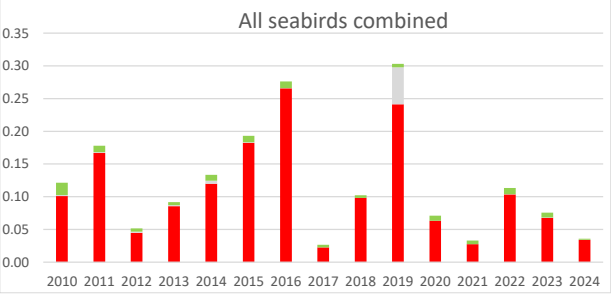



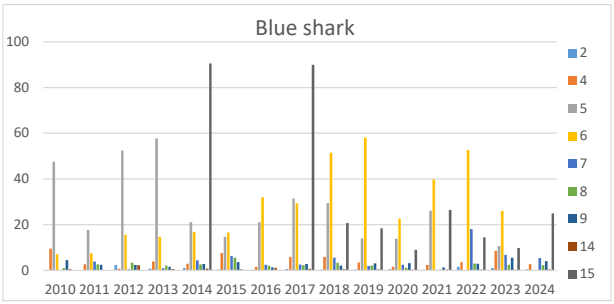



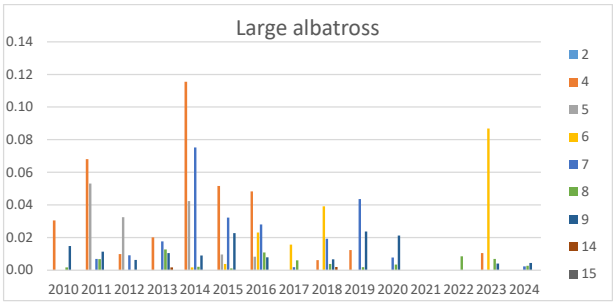



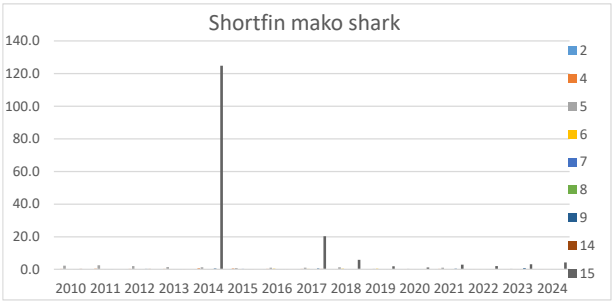



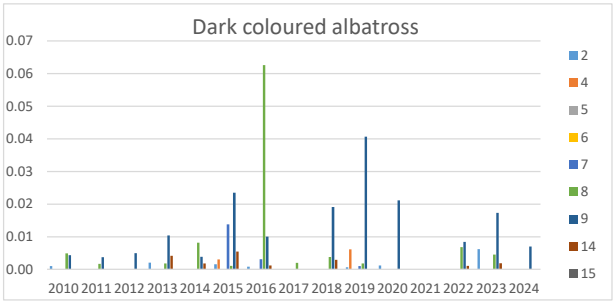



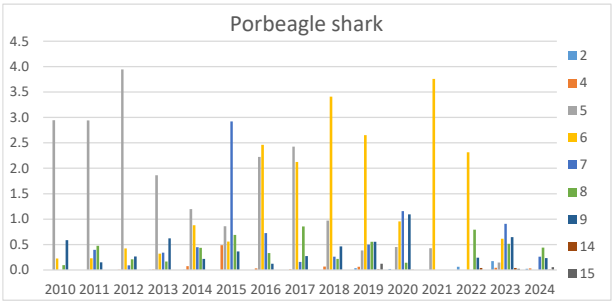
*Observed catch rates for the SBT longline fishery by year, statistical area and species/species group (refer to the 'Caveats of the Data' section before interpreting the results).*

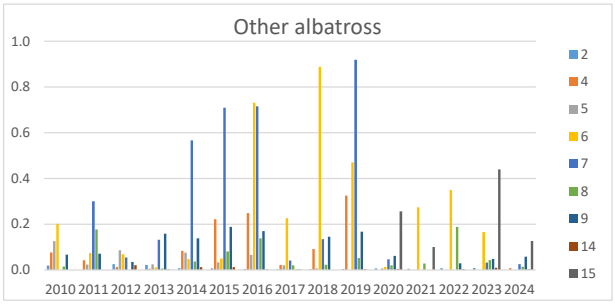


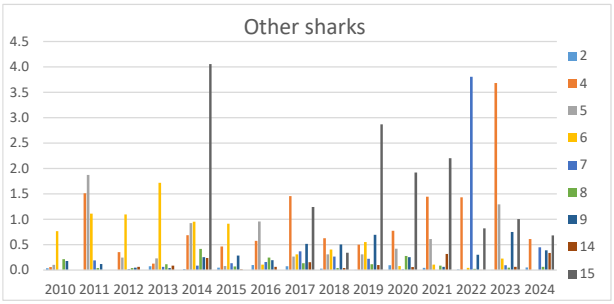



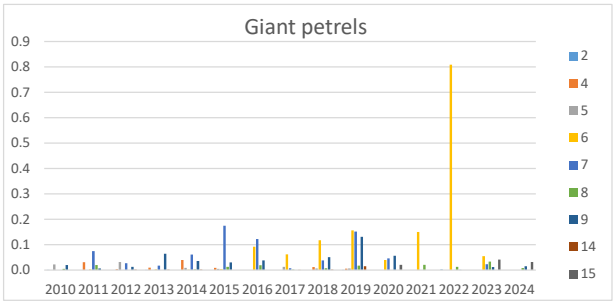



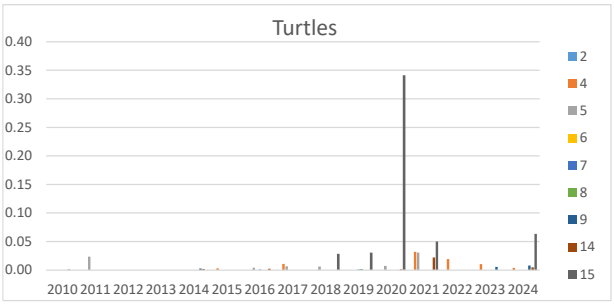



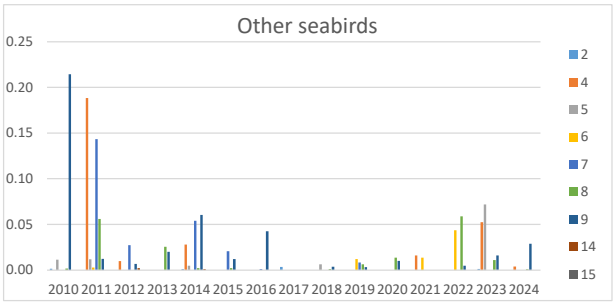



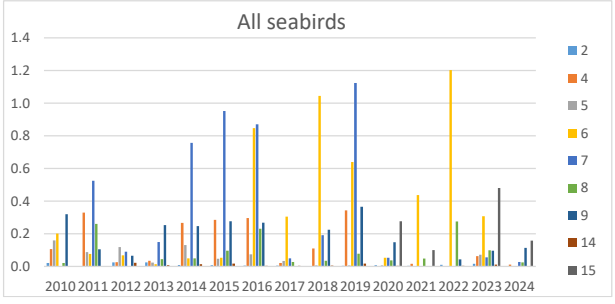



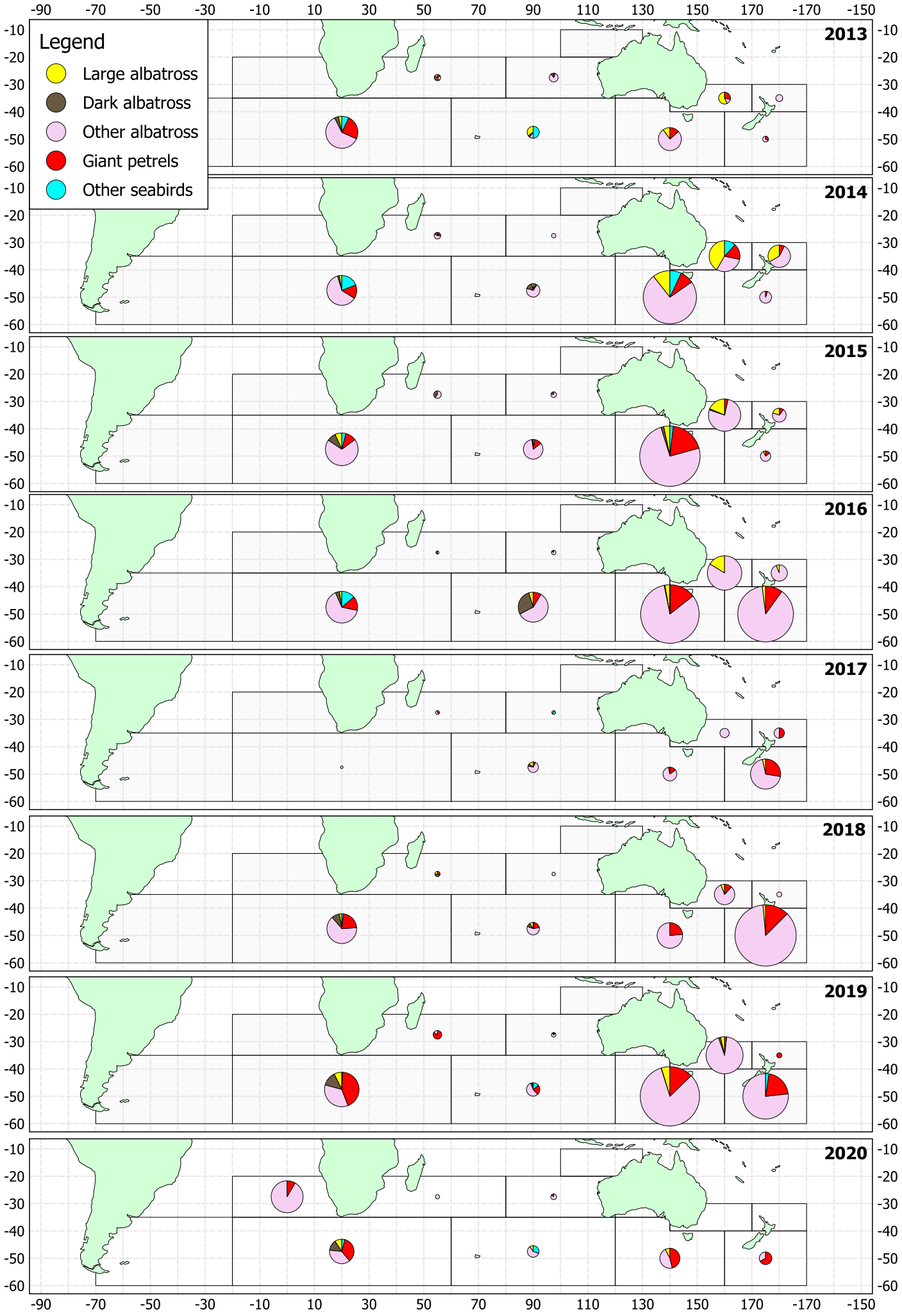



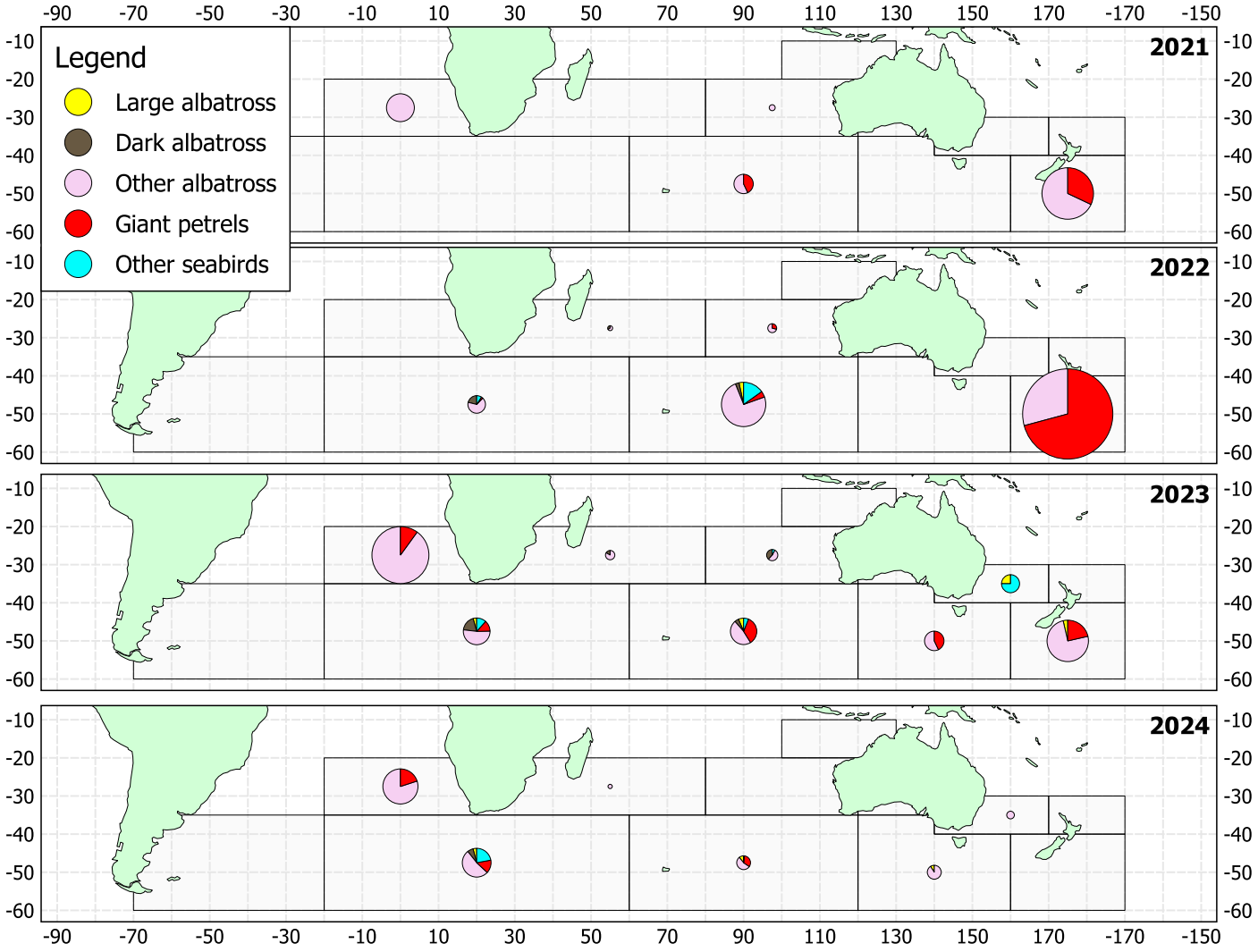
# Observed bird mortality rates for the SBT longline fishery

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

**Attachment R**



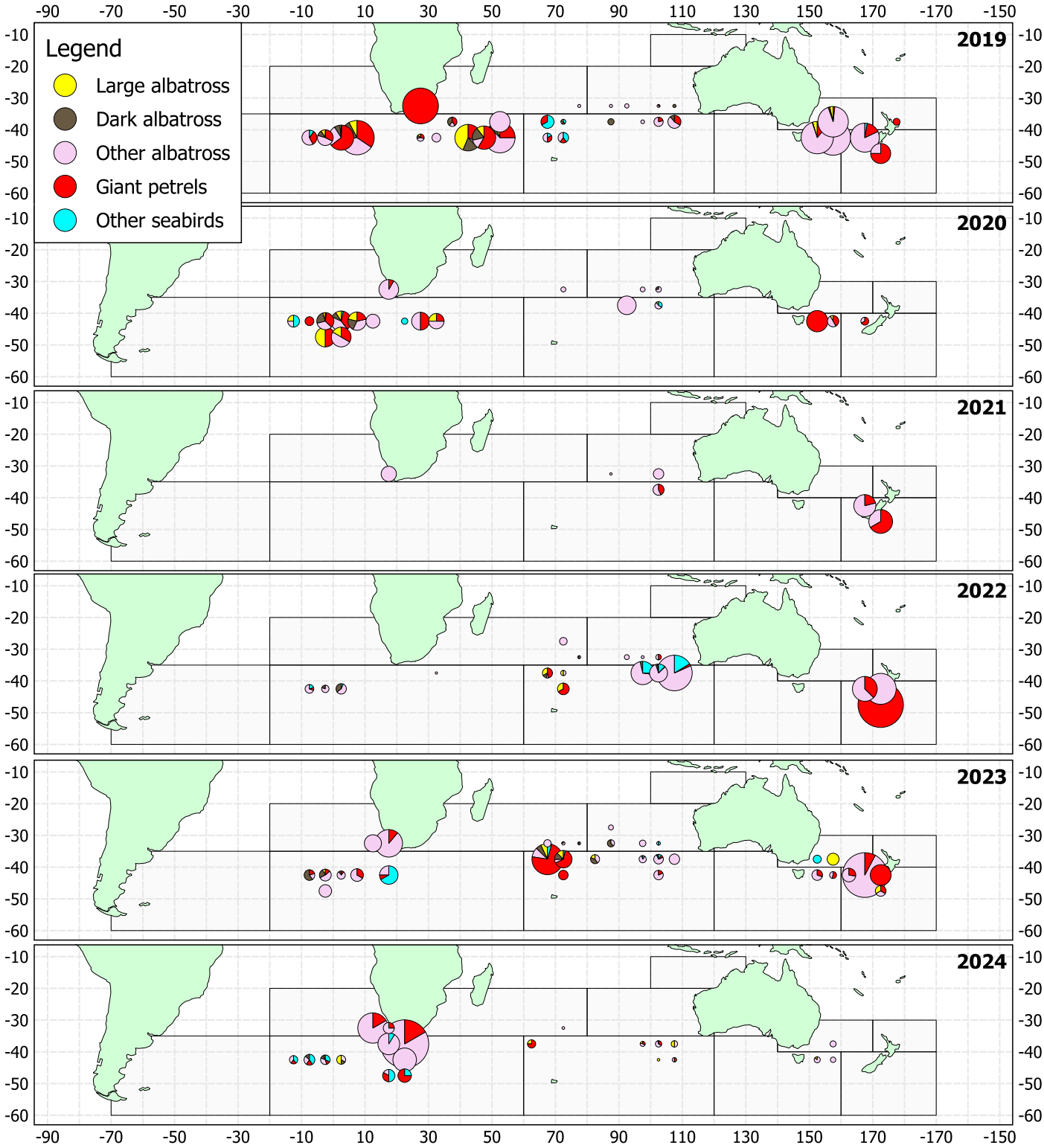
## Observed bird mortality rates for the SBT longline fishery



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

**Attachment S**

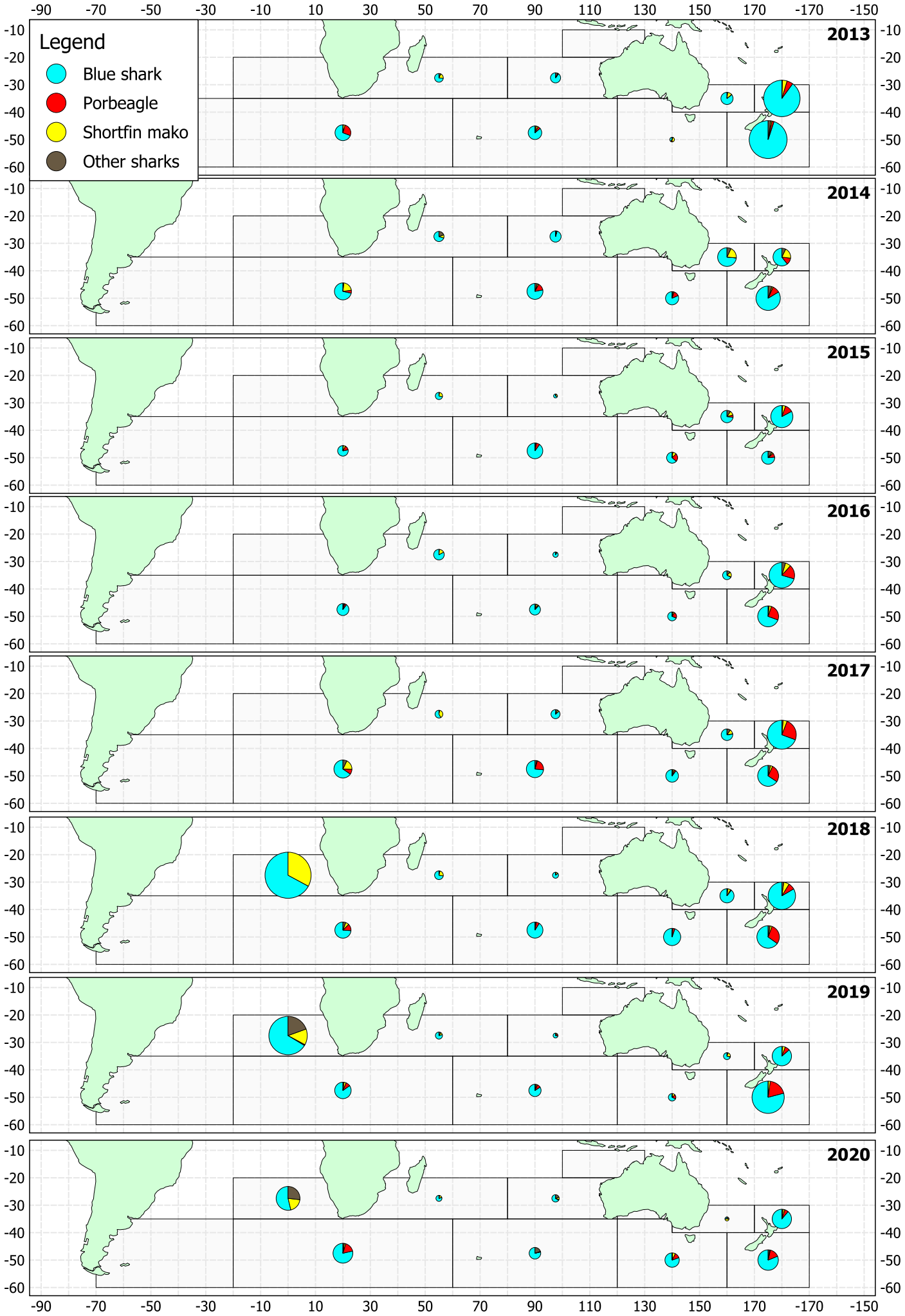
Refer to the 'Caveats of the Data' section of the main text before interpreting the results.



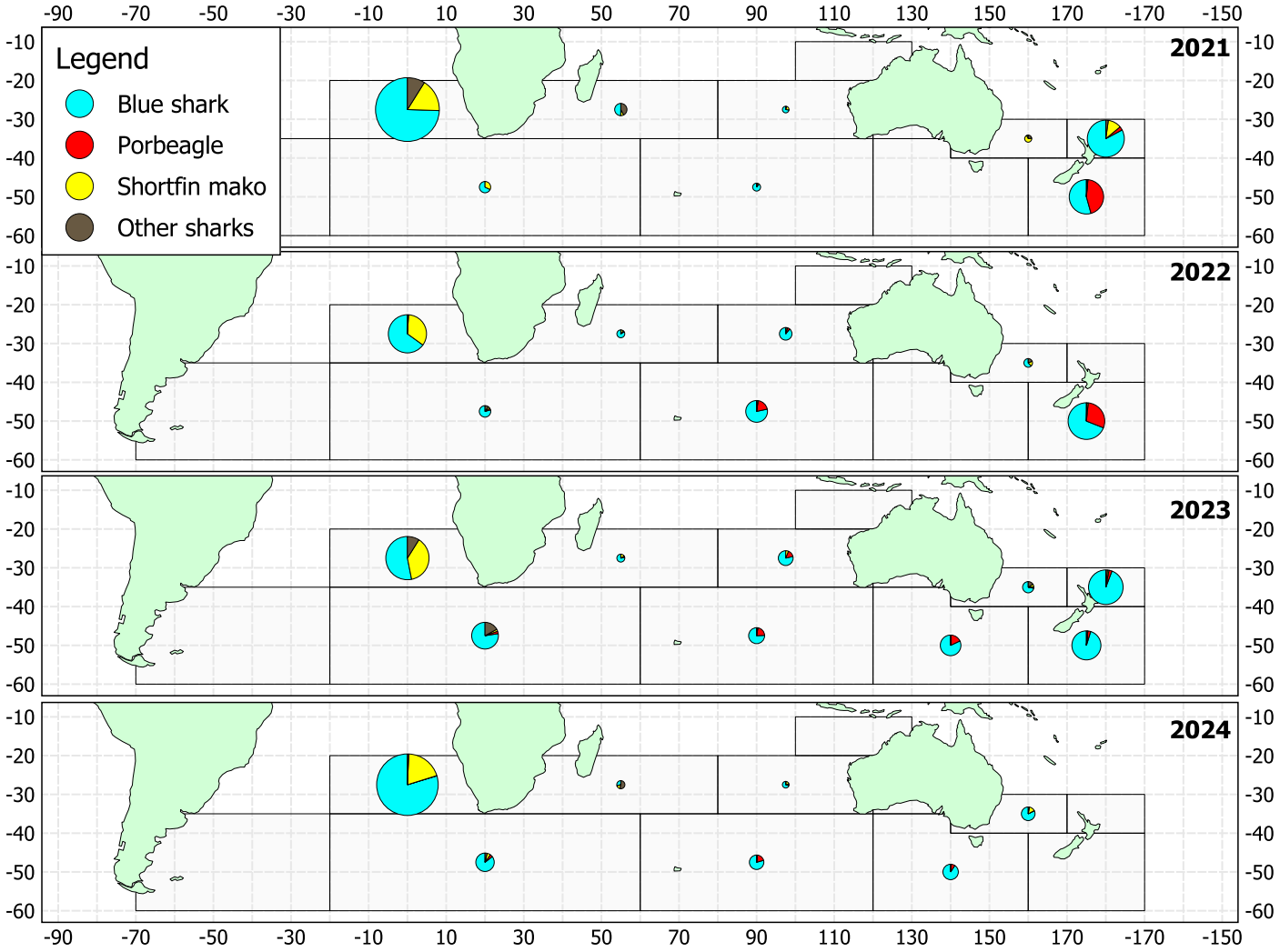
# Observed shark mortality rates for the SBT longline fishery

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

**Attachment T**

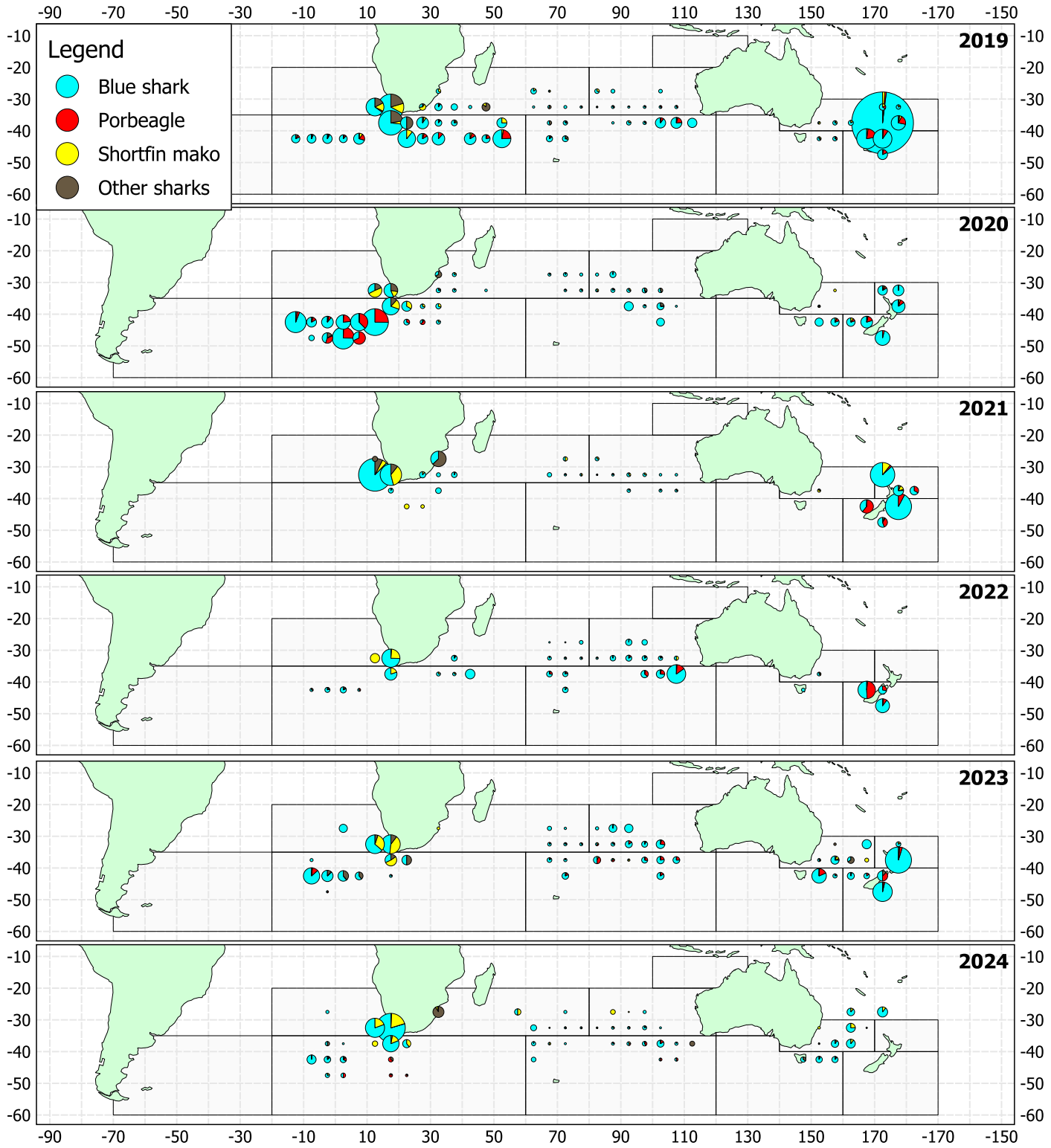


## Observed shark mortality rates for the SBT longline fishery



**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).*

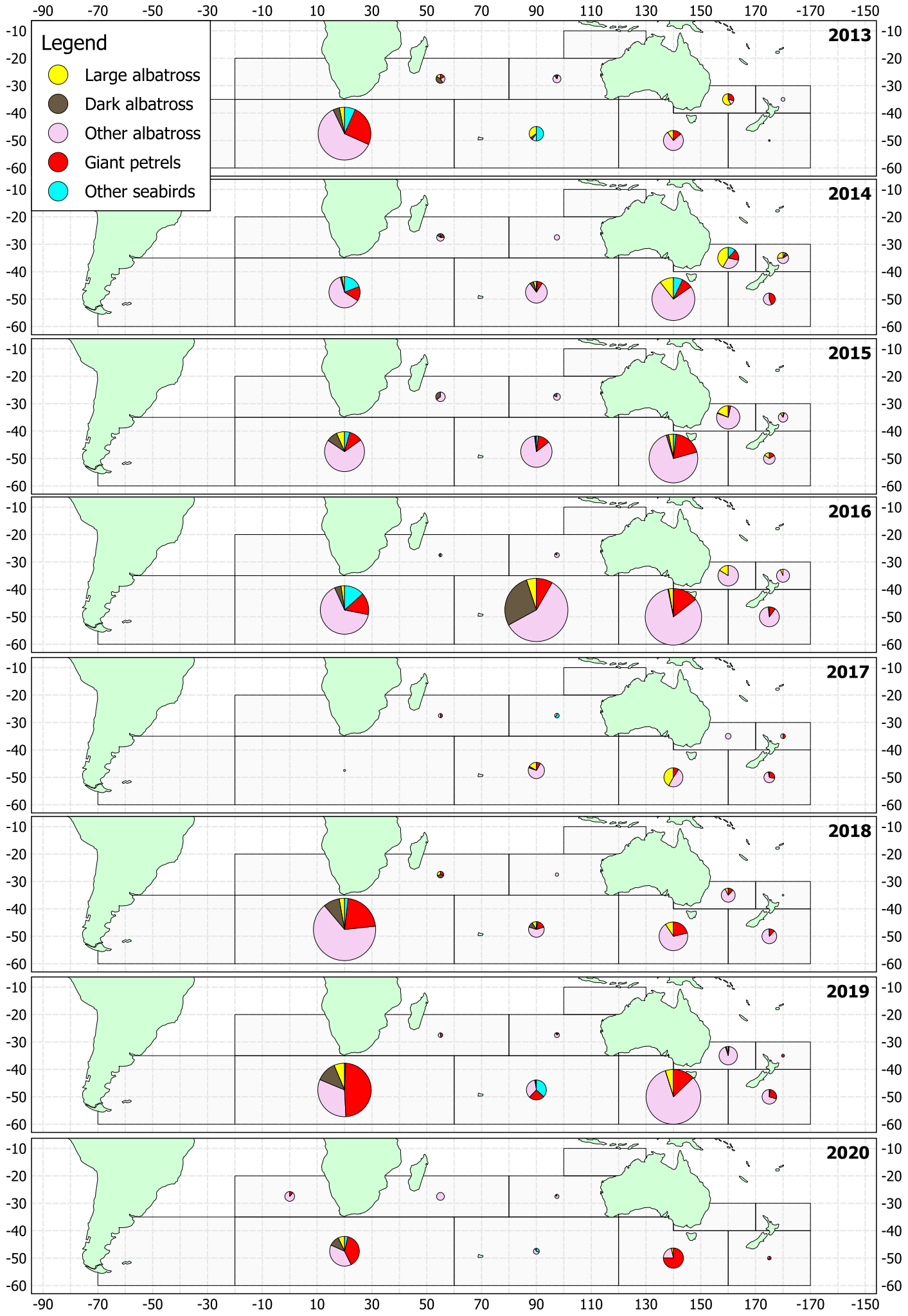
| Year | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other Sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 2 | 2,533 | 175 | 0 | 432 | 0 | 0 | 6 | 142 | 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* |

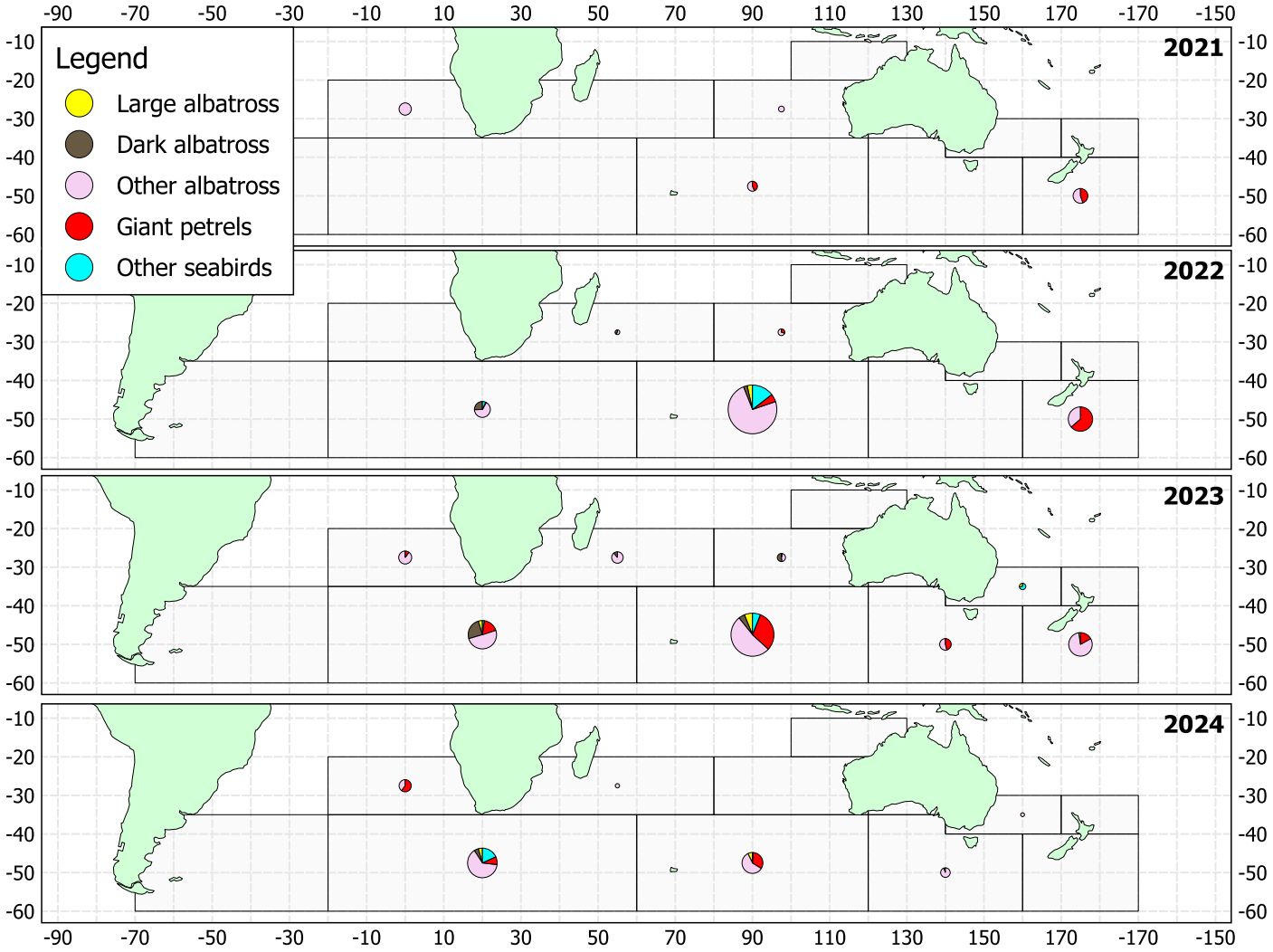
| Year | Statistical area | Blue shark | Shortfin mako shark | Porbeagle | Other Sharks | Turtles | Large albatross | Dark coloured albatross | Other albatross | Giant petrels | Other seabirds |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **2021** | 2 | 562 | 146 | 0 | 36 | 0 | 0 | 0 | 18 | 0 | 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.

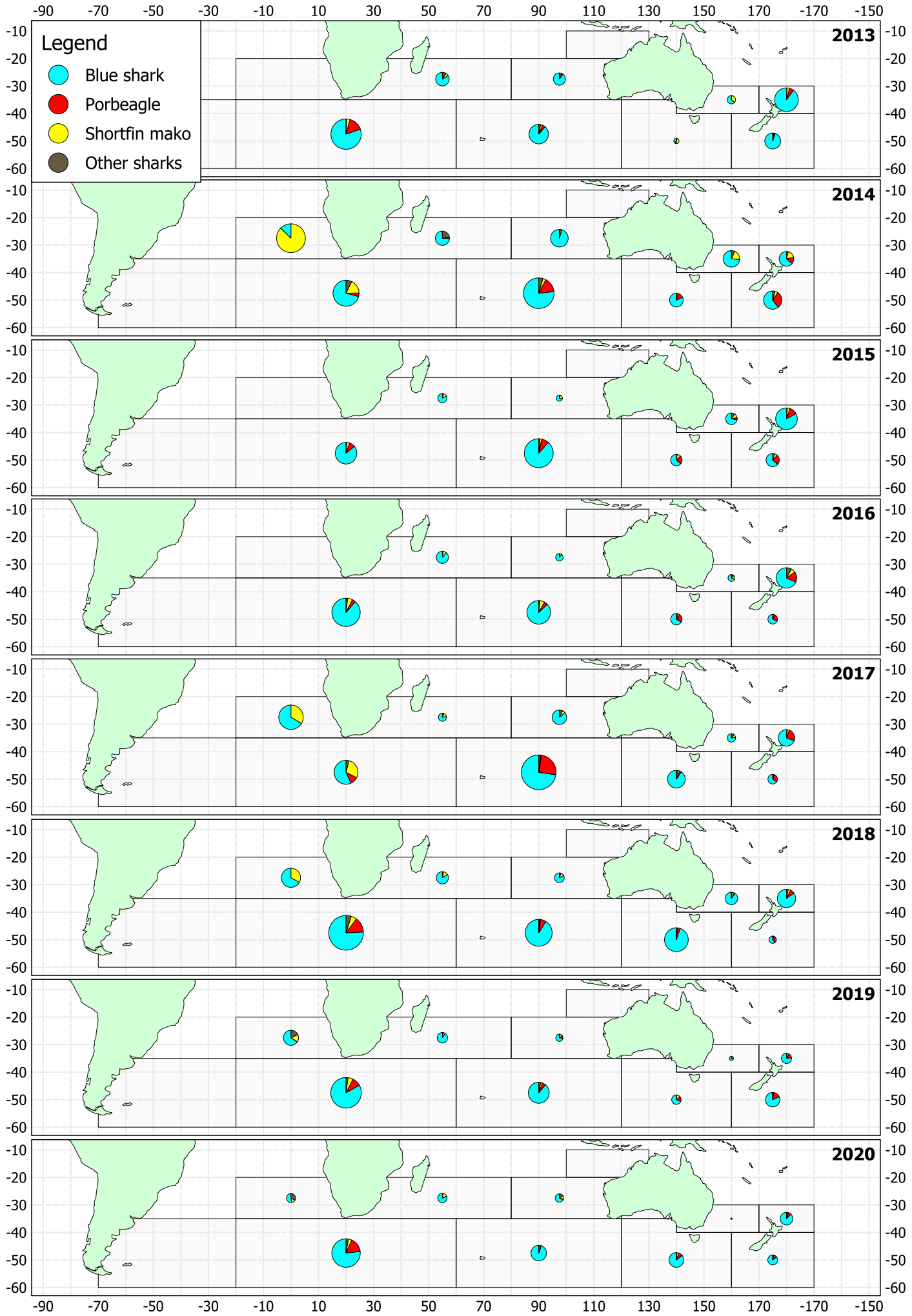


## Estimated total bird mortalities for the SBT longline fishery



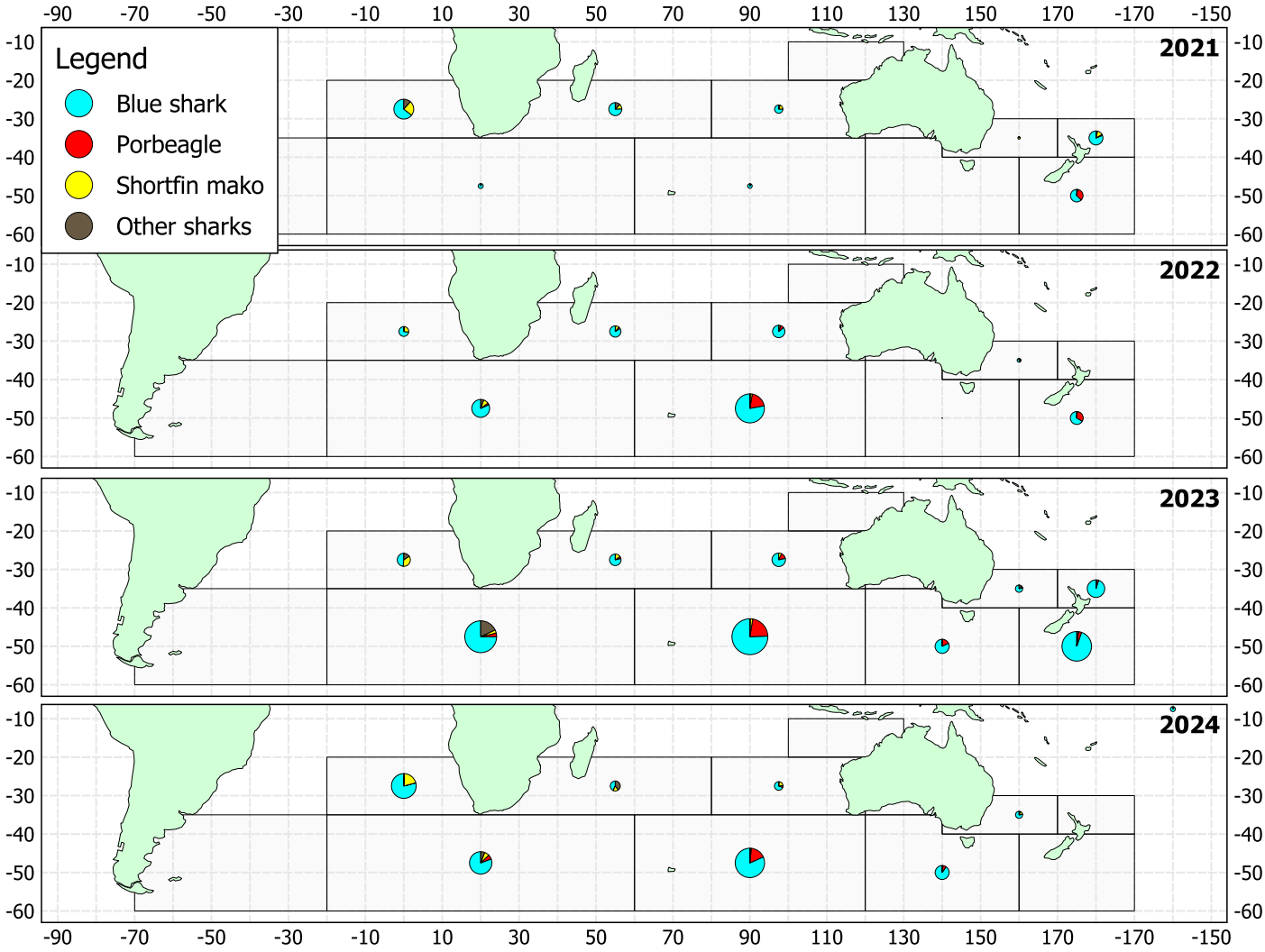
**Estimated total shark mortalities for the SBT longline fishery** **Attachment X**

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% |