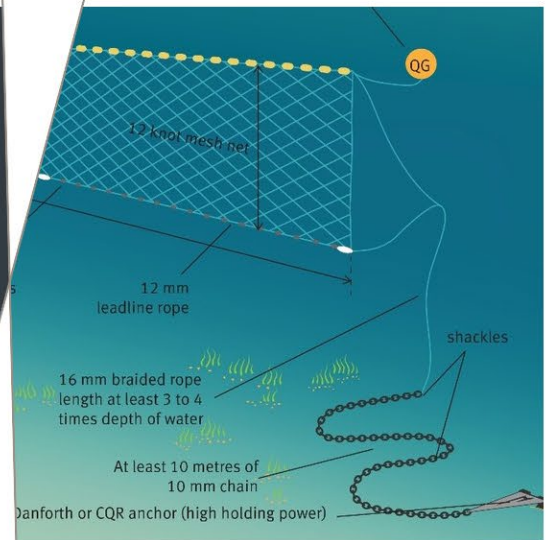


Data Review for Queensland Shark Control Program Regions & The Whitsundays

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Our report is based on information made available by the client. The validity and comprehensiveness of supplied information has not been independently verified and, for the purposes of this report, it is assumed that the information provided to Cardno is both complete and accurate. Whilst, to the best of our knowledge, the information contained in this report is accurate at the date of issue, changes may occur to the site conditions, the site context or the applicable planning framework. This report should not be used after any such changes without consulting the provider of the report or a suitably qualified person.

Executive Summary

Since 1962, Queensland has operated the 'Shark Control Program' (SCP) for bather protection, using nets and drumlines (baited hooks), or a combination of both, to catch large sharks at popular beaches along the Queensland coastline. In Queensland, 19 species of sharks are considered to have potential to bite humans and of most concern are the bull whaler (*Carcharhinus leucas*), tiger shark (*Galeocerdo cuvier*) and white sharks (*Carcharodon carcharias*). In this report, the 19 high risk species are referred to as 'target' species and all other sharks, and other bycatch, as 'non-target' species.

The Queensland Department of Agriculture and Fisheries (DAF) is investigating non-lethal alternatives (to drumlines and nets) to mitigate the risk of shark bite that may be suitable for trial in Queensland. Systems for shark bite risk mitigation are also being considered for possible deployment in the Whitsundays; a non-SCP area where shark bites occurred in late 2018 and 2019.

To support decisions relating to shark control gear configurations (including potential trials of alternative (non-lethal) systems), DAF engaged Cardno to collate, analyse and present various data for the 86 beaches in the 10 SCP regions and for the Whitsundays. Twelve data types were sourced and analysed, including physical, biological, human usage or planning attributes for the beaches or for the waterways within the Whitsundays. Some of these data describe the potential constraints that need to be considered when deciding on trials of alternative systems whilst other data types contribute knowledge about human and shark activity (and interactions) in the regions that can guide management. In some instances, for context, information was also presented for non-SCP areas (e.g. shark bite records).

Data types were summarised at the beach-scale where possible. If data were not available at the beach-scale, they were presented at a scale appropriate to the scale at which they had been reported. All data presented were sourced through publicly available portals or, in the case of water user data, via a specific request for information to Surf Life Saving Queensland. The limitations for any of the data were discussed. Although some data types were unavailable at some of the 86 beaches, apart from two exceptions, the data generally provided good coverage. The first exception included independent studies of shark populations: these were unavailable for most of the species of interest, and patchy for others, preventing firm conclusions regarding the status of populations for any species. The other exception comprised data sets about visitor (tourist) activity at SCP beaches or areas within the Whitsundays; these data were not available at a useful spatial level.

Summaries for each of the twelve data types considered patterns at broad and local scales (i.e. among and within regions) and in some instances at temporal scales (e.g. water clarity as determined by secchi depth). Potential correlations among the data types were not considered as part of this report. Key findings for each data type are given below.

Data Type 1: SCP Catch

Target shark species comprised at least half, but usually the substantial majority, of total drumline catches across all regions, ranging between 49.2% (Tannum Sands region) and 87.6% (Mackay region). In contrast, target species consistently comprised the minority of catches in nets, ranging between 6.6% (Cairns region) and 48.9% (Rainbow Beach region) of the total net catch. There was a substantially greater diversity of non-target species of sharks, rays, marine mammals and marine turtles caught by net than by drumline across all regions. There was also a clear latitudinal influence on the observed regional catch profiles from north (Cairns) to south (Gold Coast).

Totals of 1,687 bull whalers (~94 year⁻¹), 3,640 tiger sharks (~202 year⁻¹) and 108 white sharks (~14 year⁻¹) were caught by SCP gear between 2001 and 2018, with the proportions caught by drumlines being 79.8%, 94.3% and 62.0% for these species, respectively. Tiger sharks were more prevalent in drumlines than nets where both gear-types were present, and were usually (but not always) the most abundant by far of the target sharks in drumline catches. The largest catches of tiger sharks in drumlines occurred at Townsville and Mackay and the least were at North Stradbroke Island and Gold Coast. Bull whalers were usually the second-most abundant of the target sharks in drumline catches, and usually the most abundant target shark species in the case of nets in the northern regions. The Capricorn Coast recorded the largest mean annual catch from drumlines, which was more than twice the next largest value (Townsville). These, and the other three northern regions (i.e. Cairns, Mackay and Tannum Sands), also recorded bull shark catches that were greater than the five southern regions. The general pattern for bull sharks caught by nets was consistent with that for drumlines, with the largest mean annual catch recorded in the Mackay region, which is the only northern region that presently deploys nets. White sharks were not caught by drumline or net in any of the five northern-most regions but were caught in the more southern regions.

Long-nose whalers (*Carcharhinus brevipinna*) were usually the most abundant target shark species caught in nets within the southern regions. Two species of whaler sharks, blacktip reef whaler (*Carcharhinus*

melanopterus) and spot-tail whaler (*Carcharhinus sorrah*), and the tawny shark (*Nebrius ferrugineus*) were usually the most abundant non-target species caught by drumline in northern regions, while loggerhead turtles (*Caretta caretta*) were almost always the most abundant non-target species caught by drumline in southern regions. Scalloped hammerheads (*Sphyrna lewini*) were consistently common in net and drumline catches throughout the geographical range of the SCP. Pelagic rays such as manta rays (*Manta* spp.), devilrays (*Mobula* spp.), cownose rays (*Rhinoptera bonasus*) and eagle rays (Family Myliobatidae) were abundant in net catches and less so in drumline catches, and accounted for greater proportions of the non-target catch in the central and southern regions.

Dolphins (Delphinidae) and baleen whales (Mysticeti) were caught more readily by net than by drumline where both gear-types were present – particularly in the central and southern regions. Green turtles (*Chelonia mydas*) were the species of sea turtle most commonly caught in the northern regions, while loggerhead turtles were the species most commonly caught in the southern regions.

General patterns in mortality rates for the more commonly caught non-target species were consistent across all regions. Irrespective of gear-type, most non-target whalers, hammerheads (*Sphyrna* spp.) and mako sharks (*Isurus* spp.) were almost always found dead on/in the gear (e.g. blacktip reef whalers, spot-tail whalers and scalloped hammerheads). In contrast, demersal species of sharks or rays were found and released alive most of the time when caught by drumline and around half of the time when caught by net (e.g. tawny sharks and zebra sharks, *Stegostoma fasciatum*). Pelagic rays such as mantas, devilrays, cownose rays and eagle rays, which were far more commonly caught in nets than by drumline, exhibited variable mortality following capture in nets with approximately half recovered dead. Most marine mammals and sea turtles caught by drumline were usually found alive and subsequently released. In contrast, these species were much more likely to be found dead – more than half of the time – when caught by net, with sea turtles and whales apparently faring slightly better than dolphins, which rarely survived net capture. Teleost species caught were usually found dead when caught by either type of gear.

There were some issues in the quality of data downloaded from QFish, and we also suggest that differences among regions or beaches in any aspect of operations, if present, could lead to biases in catch. These differences could include, but not be limited to: spacing of drumlines within beaches; depth at which drum line hooks and nets are set; set times and frequency of checking; bait type and its freshness and bait depredation. In addition to the potential for operational biases there was also spatial and temporal variability in fishing effort within beaches and regions (i.e. differences in and unclear changes to the numbers of units deployed per beach), which prevented clear and accurate inter-beach comparisons with respect to the effectiveness of the program on species. Notwithstanding these issues, there was some evidence of variation in yield among beaches, whereby some could yield very large proportions of potentially dangerous sharks (i.e. bull whaler or tiger sharks) for an entire region.

Data Type 2: Independent Regionally-specific Shark Population Studies

There have been numerous studies on sharks on the Queensland coast, covering a range of topics including basic biology and ecology, habitat use, fisheries' yields and other research questions. Very little of the work, however, has focussed on estimating the population size of potentially dangerous shark species.

Data Type 3: Fisheries Shark Catch

Sharks are a focus, by product or bycatch species for the East Coast Inshore Finfish Fishery (ECIFF) which is a multi-species net fishery that operates the length of the Queensland Coast except where there are closures under fisheries or marine park legislation. Fewer sharks are also recorded as being caught in trawl and line fisheries. Very small numbers of small sedentary shark species may also be collected by divers for the aquarium trade. Commercial shark catch in reporting zones overlapping the SCP regions generally increased from 1988 to the early 2000's after which it has been decreasing. The exception is the Gold Coast, but catches in this region are generally very small in any year.

Due to the large number of shark species caught commercially and the difficulty in some instances of differentiating them, recording (by fishermen) down to the species level is a known limitation. Importantly, these data do not enable identification of trends in the number of 'target species' as defined for the SCP and in particular the three major target species of concern (bull whalers, tiger sharks and white sharks). However, white sharks have been protected from commercial fishing nationally since 1988 and tiger sharks are not commercially attractive. Overall, as commercially recorded catches include smaller species not implicated in unprovoked bites (and in particular serious bites), changes in the total catch are unlikely to represent a change in the potential threat to humans.

Data Type 4: Incidents in the Australian Shark Attack File

There are 190 records of unprovoked shark bite on the Queensland East Coast between 1847 and 2019, of which 48 (25%) were fatal. The periods 2017-2019 and 2002-2006 are the periods with the greatest frequency of unprovoked bites.

Since the SCP commenced, four of the nine fatal unprovoked bites in Queensland occurred within the Great Barrier Reef (GBR), including the two most recent bites. Only one fatal bite has occurred at an SCP region – at Amity Point (North Stradbroke Island region) in 2006. Another bite occurred in 1977 at a beach which is now included in the SCP (Buddina Beach, Sunshine Coast), but was not part of the Program at the time the bite occurred. Although the frequency of unprovoked bites for all of Queensland has increased since the SCP commenced, this pattern is not reflected in the SCP regions apart from the Sunshine Coast. Since the SCP commenced, the frequency of bites appears to have reduced in Cairns, Townsville and the Gold Coast.

Since the SCP commenced, 44 of the unprovoked bites occurred in the GBR and 40 have been outside the Reef. The last three years have seen a larger proportion of bites occurring in the GBR compared with the dataset as a whole.

There have been eight recorded unprovoked shark bites in the Whitsundays with one of these fatal. The first unprovoked bite was recorded at Whitehaven Beach in 1997 on a snorkeler. The next two bites were on scuba divers in Whitsunday Passage in 1997, followed by a bite to a snorkeler at Dent Island in 2010. There were three bites in 2018, one of which was fatal: these were at Cid Harbour and all three people bitten had entered the water from the back of a boat at anchor. A further two bites occurred in 2019 at Hook Passage on the same day with the same shark believed to be implicated.

A significant limitation of the Shark Attack File in most instances is assigning a species responsible for a bite. Overall, eye witness reports of the species and size of the shark responsible for a bite are frequently unreliable. This is particularly the case where several species potentially responsible reside in a region. In a number of instances though, a species responsible can be inferred if there is only one species likely to be found in that habitat.

We have not undertaken seasonal analysis, but this will be important to determine whether the risk of shark bite (from some species) is greater in some areas during some months or seasons.

Data Type 5: Beach User Statistics

Noosa Beach (Sunshine Coast region) had the most beach visitations during 2018/19 with over a million visits. Beaches from the Cairns, Townsville, Mackay, Capricorn Coast and Tannum Sands regions had fewer visitors per day compared with beaches within all regions further south. Mooloolaba Beach (Sunshine Coast Region) had the greatest average number of swimmers who swam between the flags, with 1,051 people per day.

Generally, there were more swimmers within the flags than outside of the flags although the ratio between the two varied among beaches. For example, at Noosa there were similar proportions of swimmers within and outside the flags, whereas at other beaches the proportion of swimmers outside of the flags could be as small as < 5% of the total.

At nearly all beaches in the regions with surf breaks (Woongarra Coast, Rainbow Beach, Sunshine Coast, North Stradbroke Island and Gold Coast), the average numbers of craft users per day were in the tens or 100s. In all other regions to the north, the average numbers of watercraft users at most beaches were generally much less and only greater than 11 per day at a few beaches in the Townsville/Magnetic Is Region.

No data appear to be available at different times during the day, or when the flags are removed and/or lifeguards are not on duty. These times could represent crucial times of potential higher risk to beach users of interacting with sharks. The number of shark sightings by lifeguards, including distance from shore, number of sharks, lifeguard response to sightings, presence of potential prey fishes and shark alarms requiring users to vacate the water, etc, was not available for this report.

Data Type 6: Population and Visitor Statistics

The Sunshine and Gold Coast, apart from Bribie Island (southern Sunshine Coast), are the most densely populated SCP regions. These also have the most SCP beaches and coverage of gear. Beaches with SCP gear within regions with the smallest overall population densities (i.e. Rainbow Beach, North Stradbroke Island and Magnetic Island (Townsville)), are strategically located where the concentrations of residents are greatest.

Given the town of Gladstone is situated adjacent to a muddy estuary that is not amenable to water users, beach users residing in Gladstone would tend to travel to Tannum Sands. The Whitsundays is not densely populated areas but the islands are popular destinations for water users living on the mainland and for tourists.

The only publicly available information about potential water user densities within various locations within the Whitsundays are the 'Settings' zones for the region given in the Whitsundays Plan of Management. Areas of 'Intense' use occur around the islands which have resorts and 'high use' areas include Cid Harbour, Whitehaven Beach and the southern side of Whitsunday Island. Based on the settings it would appear that usage is generally less on the eastern nearshore areas of Hook and Whitsunday Islands than their western and southern nearshore areas (Whitehaven Beach being the exception).

Data Type 7: Swimming Enclosures/Stinger Nets

Eleven of the 86 beaches within the SCP have swimming enclosures/stinger nets associated with them. Most of these are within the Cairns and Townsville/Magnetic Island SCP Regions. In addition, a further 18 beaches not included in the SCP have swimming enclosures/stinger nets installed. These non-SCP beaches stretch from Four Mile Beach at Port Douglas, down to Southport on the Gold Coast. It is understood that all stinger net enclosures north of Gladstone are deployed for the peak stinger season (November to May). Nets to the south of Gladstone remain deployed for 365 days of the year.

None of the bays within the Whitsunday islands have stinger nets but there are two on the mainland.

Data Type 8: SLSQ Patrolled Beaches, Schedule of Servicing, Locations where Drones Already Used

Of the 86 SCP beaches, 65 (or just over 75%) are patrolled by Australian Lifeguard Service lifeguards, Council lifeguards and/or club volunteers. Most SCP Regions within the SCP are well-patrolled, although only two of the nine beaches (Yeppoon Beach and Emu Park Beach) within the Capricorn Coast Region have lifeguards patrolling these beaches. Thirty beaches (of the total of 43 beaches in the three southern most regions (Sunshine Coast, North Stradbroke Island and Gold Coast) are patrolled for 365 days of the year, whilst only 6 of the 22 beaches that are patrolled to the north of the Sunshine Coast SCP Region are patrolled to this extent.

None of the bays within the Whitsundays are patrolled.

Many of the 86 beaches within the SCP have the capability to utilise drones for beach safety if required (but see Data Type 10 for the full extent of restrictions).

Data Type 9: Physical Characteristics

Bathymetry - With the exception of the Whitsundays, all SCP regions are all located in the nearshore, with gear deployed in water depths of 5-20 m (relative to mean sea level). For most beaches in most regions there is a shallow depth gradient in seabed away from the shore. The exceptions are the beaches in the North Stradbroke Region and some of those at Magnetic Island in the Townsville Region where the gradient can be steep. The gradient of the seabed in close to the shore of many of the islands in the Whitsundays can also be very steep.

Tidal Water Levels - The tidal regime across the SCP regions is classified as mixed semidiurnal, meaning that there are two high and two low tides per day (over a single tidal cycle), often with one high, higher than the other and one low, lower than the other. The tidal regime along the eastern coast of QLD is highly dynamic, featuring micro (<2 m), meso (2-4 m) and macro (4-8 m) tidal ranges. Tidal water levels and their overall range (between lowest astronomical tide (LAT) and highest astronomical tide (HAT)), typically increase moving north from the Gold Coast up to Cairns. Mackay has the largest tidal range (LAT to HAT) of all SCP regions at 6.6 m. The smallest tidal range occurs at the Gold Coast (2.1 m).

Ocean Surface Currents - Modelled tidal currents indicate a significant net southerly current for SCP regions south of North Stradbroke Island indicating the influence of the persistent southerly East Australian Current (EAC). For regions north of North Stradbroke Island, the relative contribution of tidally induced currents becomes more apparent as the coral reefs deflect the westward Pacific Ocean currents away from the coastline. Maximum current speeds in all regions are generally in the order of 0.3 to 0.7 ms⁻¹. The exceptions were in the south of Cairns, parts of the Whitsundays (i.e. close to passages between some of the islands), Magnetic Island, Bribie Island (Sunshine Coast) and North Stradbroke Island where maximum speeds were closer to, or just above 1 ms⁻¹.

Wave Climate - The wave climate along the eastern Queensland coastline is highly variable and typically comprises a combination of ocean swell and locally generated 'wind-seas'. Most of the Queensland east coast receives low, short, wind waves, with swell waves only reaching the coast south of Fraser Island. Waves on the Queensland east coast can originate from cyclones in tropical Queensland, East Coast Lows

(intense low-pressure systems) in Southern Queensland and south-east trade winds on the east coast. The influence of these sources varies seasonally and regionally. In Southern Queensland, swell waves can travel unimpeded towards the coastline and usually dominate wind waves. Maximum significant wave height in regions are generally above 3 m and up to 7.1 m. The exception is Cairns, where it is less, but this is most likely an artefact of the short time period of data analysed and it would be expected to be greater than this during a cyclone.

Secchi Depth (a measure of water clarity) – Modelled secchi depths in the nearshore regions typically remain below 10 m, with visibility increasing further offshore. Seasonal variations in secchi depths are observed and are highly correlated to seasonal river discharges. Secchi depth is generally much greater in regions south of Fraser Island to the north. North of Fraser Island, secchi depth is greatest in spring.

Topography (of nearshore land) – The landscape around most SCP beaches is generally flat or gradually sloping up to hills, with little opportunity for shark spotters to operate effectively. The exception is North Stradbroke Island where there are elevated vantage points close to most of the beaches (except Amity).

Data Type 10: CASA Exclusion Zones, Seabird Exclusion Zones

Drone operators must comply with airspace zoning governed by the Civil Aviation Safety Authority (CASA) and in any area it is important for drone operators to comply with the drone safety rules – officially known as the ‘standard operating conditions’. In general drones cannot be flown closer than 5.5 km to a controlled aerodrome or airfield (usually those with a control tower) if the drone weighs more than 100 g. Two beaches in Cairns and Townsville, eight in the Sunshine Coast, nine in the Gold Coast regions and some areas of the Whitsundays have such restrictions. Many other beaches are within other airspace zoning where restrictions apply around flying height or when other aircraft are present in the general vicinity.

Seabird exclusion zones within the Whitsundays are ‘no fly zones’. These occur mostly in the north-west of the Whitsundays and away from popular tourist areas.

Data Type 11: Seamap Australia Benthic Habitat Maps

Reef is mapped within parts of some of the beach areas within the SCP regions of Capricorn, Woongarra and North Stradbroke and it fringes much of the shore of the islands of the Whitsundays. Seagrass is mapped on the southern part of the Amity Point Beach of the North Stradbroke Region and within many of the shallow areas and bays around the larger of the islands in the Whitsundays.

Data Type 12: All Relevant GBRMP Attributes, Including for the Whitsundays Plan of Management

Parts of the northern SCP regions overlap with the Great Barrier Reef Marine Park (GBRMP) or GBR Coast Marine Park, however, some beaches or parts of beaches in the north are not within these marine parks. The marine park zoning for beaches in SCP regions from Cairns to Tannum Sands are given below:

- Cairns
 - GBRMP ‘Habitat Protection’ zone – Ellis Beach, Buchans Beach, Palm Cove and Clifton;
 - GBRMP ‘General Use’ zone - part of Trinity Beach
 - GBR Coast MP ‘General Use’ zone - part of Trinity Beach, Yorkeys Knob and Holloways Beach.
- Townsville
 - GBRMP ‘Conservation Park’ zone - Picnic Bay;
 - GBRMP ‘Habitat Protection’ zone – Nelly Bay, Alma Bay, Florence Bay and Radical Bay;
 - GBR Coast MP ‘Habitat Protection’ zone –Horseshoe Bay.
 - Non marine park – The Strand.
- Mackay
 - GBRMP ‘Conservation Park’ zone – Bucasia Beach, Eimeo Beach and Blacks Beach;
 - Non marine park – Lamberts Beach, South Lamberts Beach and Harbour Beach.
- Capricorn
 - GBRMP ‘Conservation Park - Farnborough Beach, Yeppoon Beach, Cooee Bay, Mullambin Beach, part of Kemp Beach, part of Lammermoor Beach;
 - GBRMP ‘Habitat Protection’ zone – Tanby Point, Fisherman’s Beach and Emu Park;

- Non marine park – part of Lammermoor Beach.
- Tannum Sands
 - GBR Coast MP 'General Use' zone – part of Tannum Sands.

Given the sensitivity of some areas and the level of tourism the Whitsundays has additional zoning as outlined in the Zoning Plan of the Whitsunday Plan of Management (WPOM). Rules including zoning and the WPOM are in place to protect the Whitsundays.

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Appendices

APPENDIX A – SCP TARGET AND NON-TARGET SPECIES

APPENDIX B - SCP CATCH FOR GEAR UNITS

1 Introduction

1.1 Background

Since 1962, Queensland has operated the Shark Control Program (SCP) for bather protection, using nets and drumlines (baited hooks), or a combination of both, to target and catch large sharks at popular beaches along the Queensland coastline. The aim of the SCP, as outlined in the Queensland *Fisheries Act 1994*, is to “reduce the possibility of shark attacks on humans in coastal waters of the State adjacent to coastal beaches used for bathing”. In Queensland, 19 species of sharks are considered potentially dangerous to humans and of most concern are the bull whaler (*Carcharhinus leucas*), tiger shark (*Galeocerdo cuvier*) and white shark (*Carcharodon carcharias*). The others are comprised of species from various families as well as the great hammerhead shark (*Sphyrna mokarran*). In this report, the 19 high risk species are referred to as ‘target’ species and all other sharks, and other bycatch, as ‘non-target’ species. The full list of target and non-target species is given in **Appendix A**.

Shark Control Program nets are designed to entangle sharks swimming into them, which subsequently die or are euthanised and disposed of in offshore waters following compilation of basic biological data (e.g. species type and size). They do not provide a complete barrier to sharks and sharks may be caught on the seaward or landward side of nets. Drumlines consist of a baited hook attached by a line to a large float that is anchored on the seabed offshore from a beach. Typically, a series of drumlines is laid parallel to the beach adjacent to areas where there are bathers (e.g. in front of flagged areas). Target sharks subsequently die or are euthanised and disposed of offshore. Non-target species are released alive if possible.

The SCP currently operates in 10 designated regions along the Queensland mainland east coast and these encompass the main areas where swimming and surfing occur (**Figure 1-1**). Over time, the area of the SCP has changed as has the nature and quantities of apparatus used. For example, although the SCP has been in operation since 1962, gear was initially only installed in four regions and there was less apparatus in these regions than at present. Gear was not installed in Tannum Sands, the last region to be included in the SCP, until 1983. In terms of the types of apparatus, nets have not been used in the four most northern SCP regions, apart from Mackay, for many years. For further detailed information about changes to gear see Cardno (2019).

Changes in the SCP have been in response to a variety of factors including a desire to reduce the impact of the SCP on non-target species such as marine reptiles (sea turtles), marine mammals (dolphins and whales), large bony fishes and populations of sharks and rays (Qld Govt. 2006, Sumpton et al. 2011; Erbe and McPherson 2012). A recent Federal Court decision (18 September, 2019) ordered that the Shark Control Program in the Great Barrier Reef Marine Park must operate in a way that avoids to the greatest extent, the lethal take of sharks. This has resulted in a change in the way the Program operates at those beaches and some minor reconfiguration of drumline numbers between beaches in those regions.

The Queensland Department of Agriculture and Fisheries (DAF) is investigating potential alternatives to lethal methods of mitigating risk of shark bite that could be considered for the SCP. DAF commissioned Cardno (NSW/ACT) Pty Ltd (Cardno) to assist with these investigations. Cardno (2019) reviewed alternative non-lethal methods, including a comparative assessment among the methods for potential trial in specific SCP regions and developed a potential implementation strategy (download at: <https://www.publications.qld.gov.au/dataset/queensland-shark-control-program/resource/76358bc5-a2fa-46ce-a8cb-0891c75e971a>).

1.2 Scope of Works

The Scope of Works (SoW) for this investigation required the collation, analysis and presentation of various data for the 86 beaches in the 10 SCP regions and for the Whitsundays. It supports Cardno (2019) and provides DAF with the information at the beach-scale to facilitate decisions relating to shark control gear configurations (including potential trials of alternative (non-lethal) systems) at SCP beaches or within parts of the Whitsundays.

Twelve (12) data types were identified for analysis, including:

1. SCP catch (including net selectivity reports for all current nets in the SCP);
2. Independent regionally-specific shark population studies;

3. Fisheries shark catch;
4. Incidents in the Australian Shark Attack file for the regions and neighbouring areas;
5. Beach user statistics (swimmers, surfers, others);
6. Population and visitor statistics;
7. Current locations of swimming enclosures/stinger nets and dates of deployment (if any);
8. Surf Life Saving Qld (SLSQ) patrolled beaches, schedule of servicing, locations where drones already in use for other purposes;
9. Physical characteristics of the areas e.g. tidal range, currents, wind, wave heights, visibility, shoreline topology (e.g. any potential vantage points);
10. Civil Aviation Safety Authority (CASA) exclusion zones, seabird exclusion zones;
11. Seamap Australia benthic habitat maps (<https://seamapaustralia.org/>) – A publicly available collation of all national benthic habitat mapping data; and
12. All relevant GBRMPA attributes including details specific to The Whitsundays Plan of Management (motorised watersport areas, recreational use areas incl. mooring, fishing and spearfishing areas).

1.3 Characteristics of the SCP Regions and Beaches

The SCP beaches and associated gear for mitigating risk of shark bite are partitioned into 10 discrete 'regions' (**Figure 1-1**). Although the regions have a broad geographic spread along the Queensland coast, their total extent makes up only a small proportion of the entire coast.

The regions include swimming beaches along the coastline around populated areas. They vary in size with the Sunshine Coast and Gold Coast regions comprising the most beaches where gear is deployed (23 beaches in each), while the Tannum Sands and Rainbow Beach regions each have gear deployed at only one beach (**Table 1, Figure 1-2 to Figure 1-4**). Some of the beaches share borders and/or are smaller parts of much larger beaches while there are gaps between others due to rocky headlands or non-beach pieces of coastline.

1.4 The Whitsundays

The Whitsundays is a group of coastal islands that is not part of the SCP (**Figure 1-5**). It contains some beaches and other environments, such as coral reefs that may be utilised by swimmers or other water users (e.g. snorkelers on the reefs, fishers or boaters) in addition to those generally found at the SCP beaches (i.e. swimmers, surfers, watercraft users). It is being considered specifically in this report at the request of DAF to assist with decision making about potential shark bite risk mitigation in the region.



Figure 1-1 Regions subject to the Shark Control Program and location of the Whitsundays island group. NB: Bribie Island is part of the Sunshine Coast SCP region.

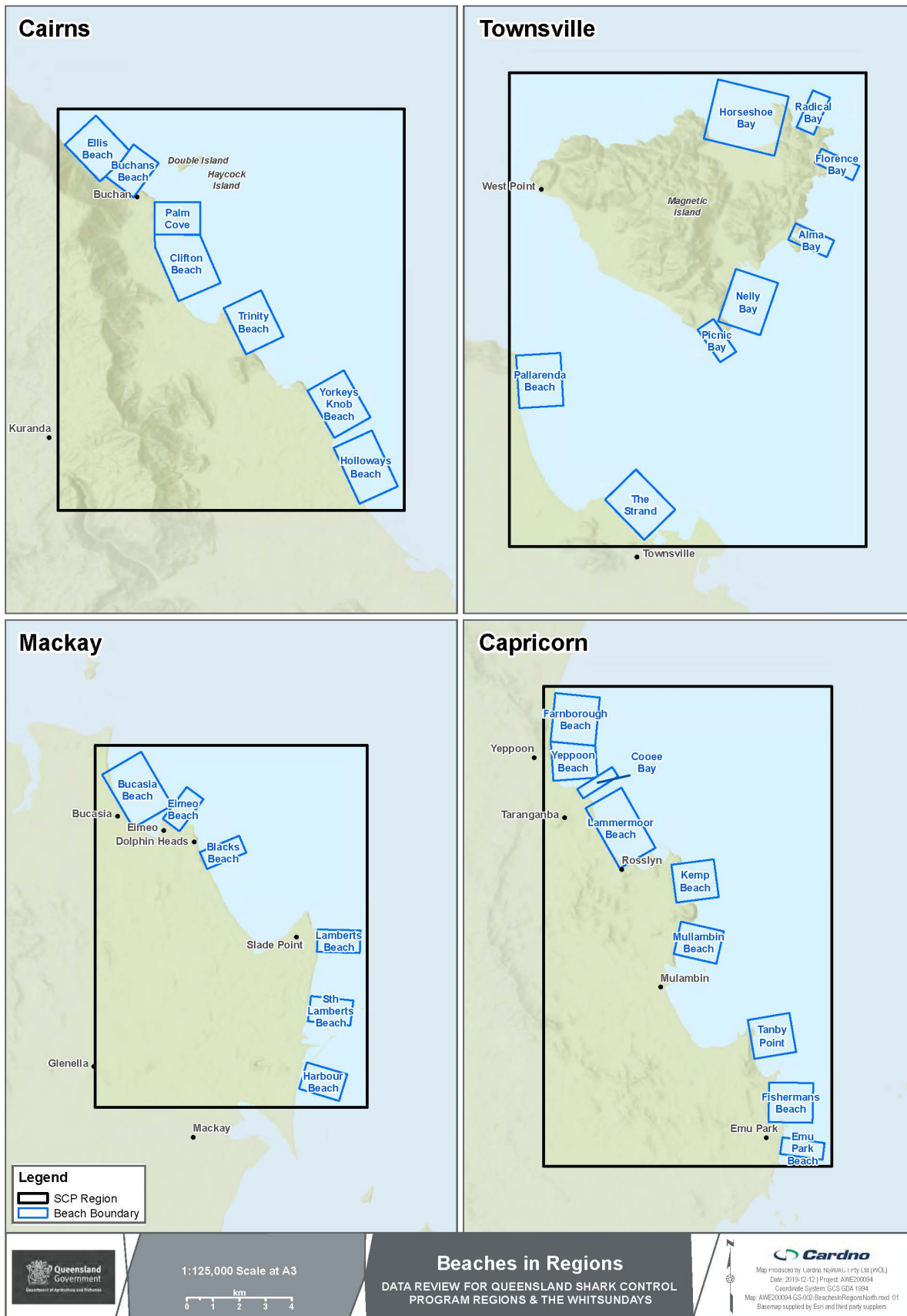


Figure 1-2 Beaches in the SCP regions of Cairns, Townsville, Mackay & Capricorn Coast.

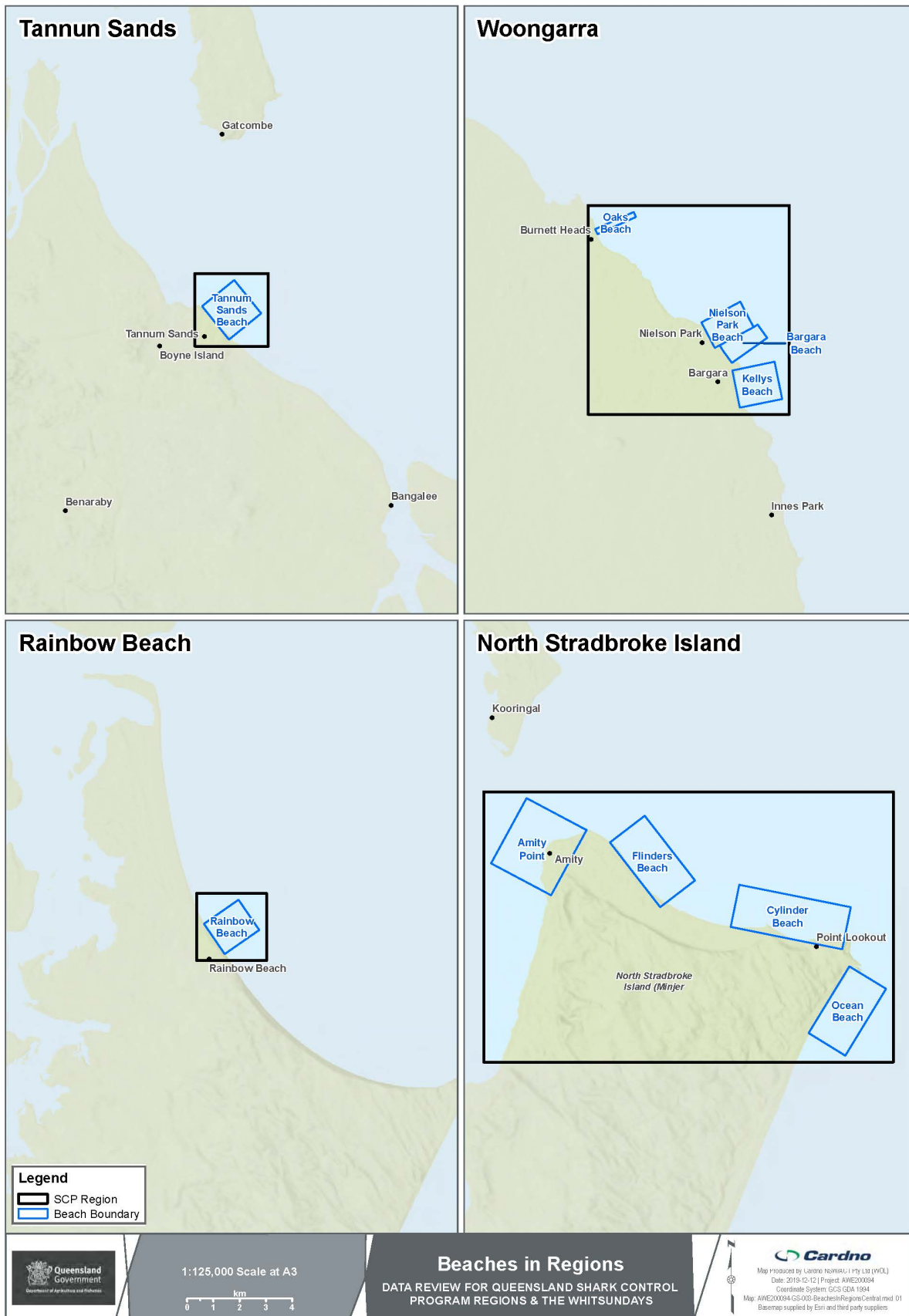


Figure 1-3 Beaches in the SCP regions of Tannun Sands, Woongarra, Rainbow Beach & North Stradbroke Island.

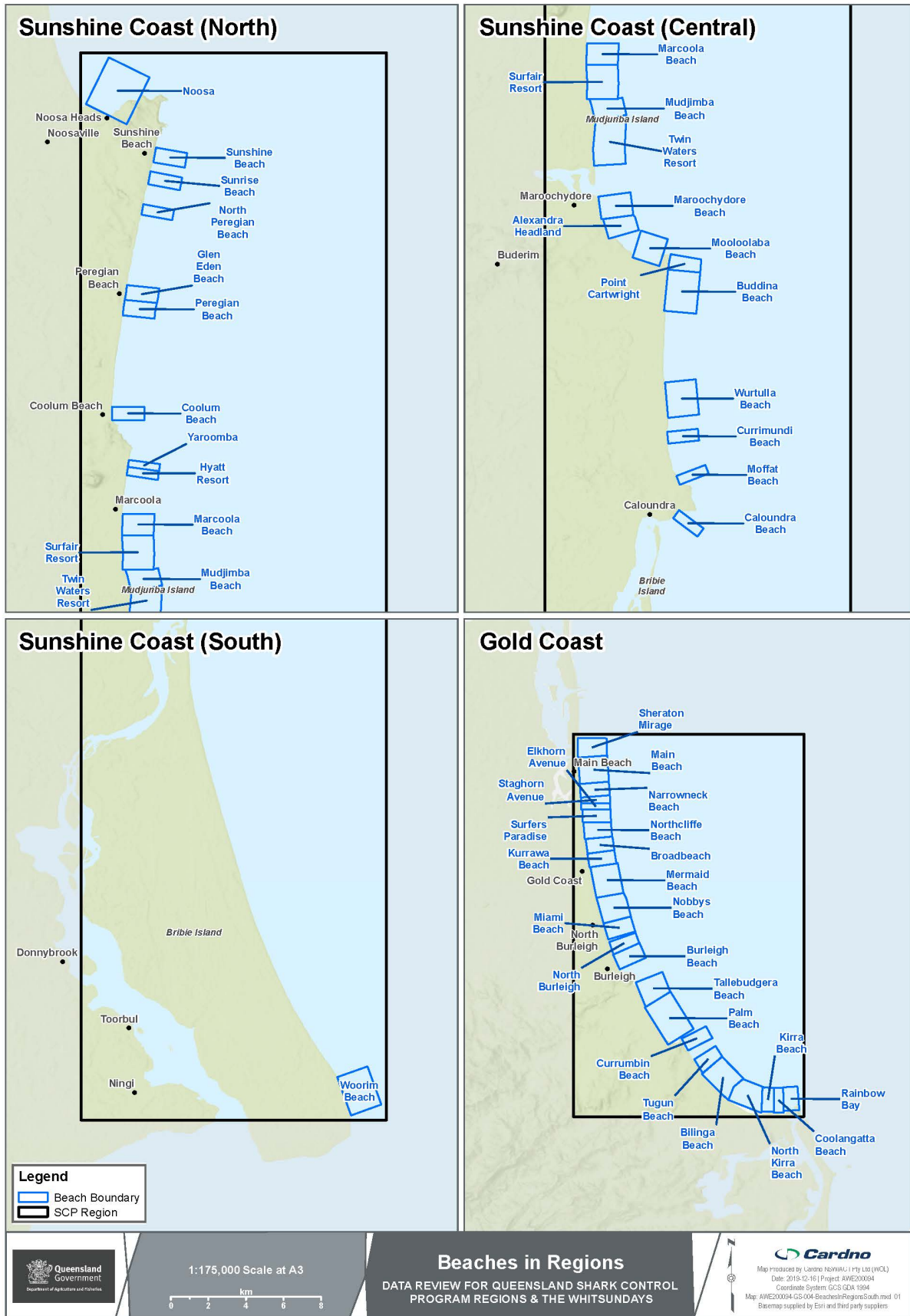


Figure 1-4 Beaches in the SCP regions of Sunshine Coast & Gold Coast

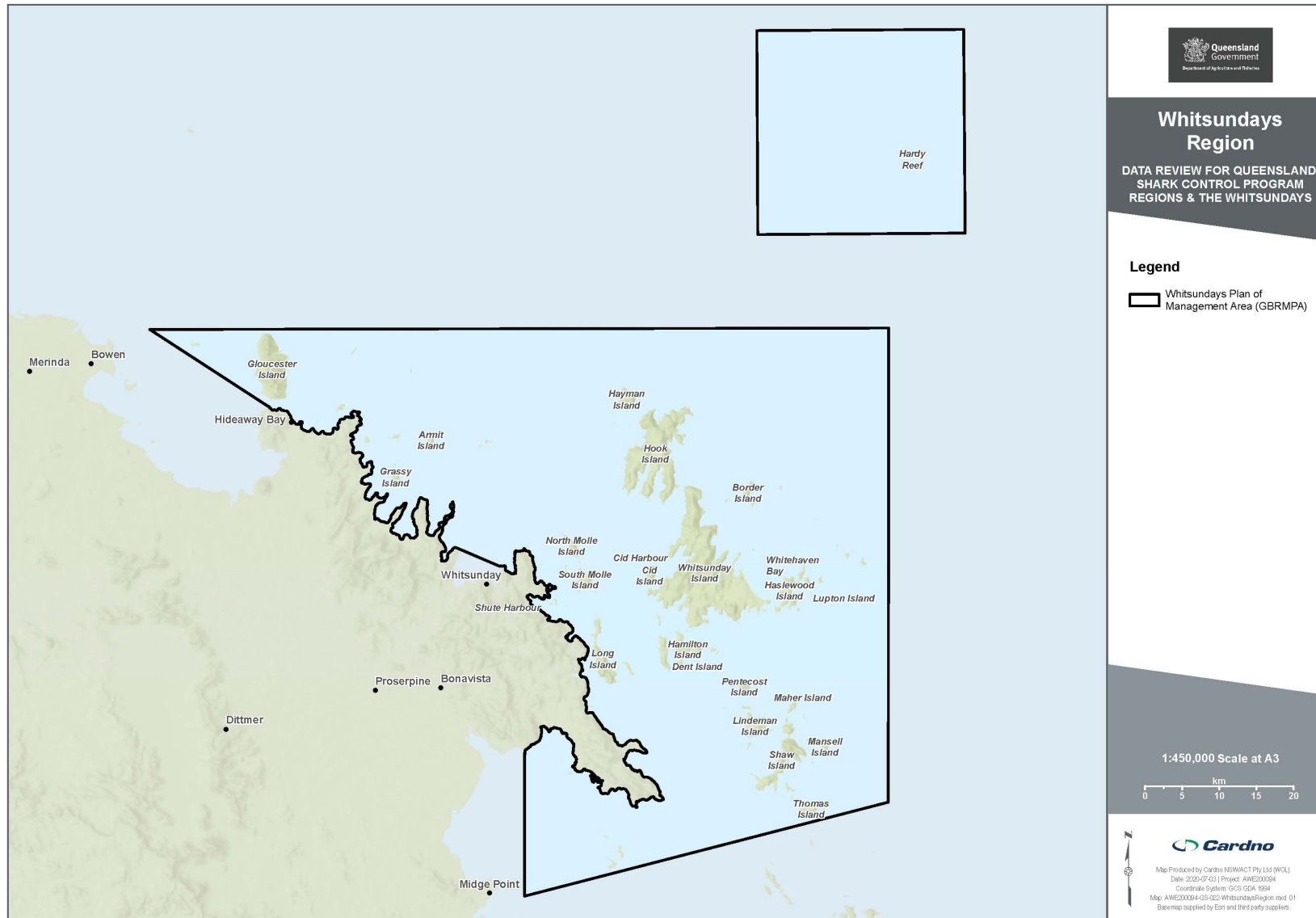


Figure 1-5 Islands in the Whitsunday

Table 1-1 Shark Control Program regions and gear deployments as at 18 September, 2019.

REGION	BEACH	AS AT 18 SEPT 2019	
		No. of Drumlines	No. of Nets
Cairns	Ellis Beach	7	
	Buchans Beach	2	
	Palm Cove	9	
	Clifton Beach	4	
	Trinity Beach	6	
	Yorkeys Knob Beach	5	
	Holloways Beach	5	
	TOTAL	38	-
Townsville & Magnetic Island	Horseshoe Bay	12	
	Radical Bay	5	
	Florence Bay	5	
	Alma Bay	6	
	Nelly Bay	9	
	Picnic Bay	5	
	Pallarenda Beach	3	
	The Strand	9	
	TOTAL	54	-
Mackay	Bucasia Beach	12	
	Eimeo Beach	6	
	Blacks Beach	6	
	Lamberts Beach	6	
	Sth Lamberts Beach	6	
	Harbour Beach	9	2
	TOTAL	35	2
Capricorn Coast	Farnborough Beach	5	
	Yeppoon Beach	5	
	Cooee Bay	6	
	Lammermoor Beach ¹	10	
	Kemp Beach	6	
	Mullambin Beach	5	
	Tanby Point	5	
	Fishermans Beach	5	
	Emu Park Beach	7	
	TOTAL	54	
Tannum Sands	Tannum Sands Beach	12	-
Woongarra Coast (Bundaberg)	Oaks Beach	2	
	Nielsen Park Beach	6	
	Bargara Beach	3	
	Kelly's Beach	9	
	TOTAL	20	
Rainbow Beach	Rainbow Beach	12	3
Sunshine Coast	Noosa	3	2

REGION	BEACH	AS AT 18 SEPT 2019	
		No. of Drumlines	No. of Nets
	Sunshine Beach	3	
	Sunrise Beach	3	
	North Peregian Beach	3	
	Glen Eden Beach	3	
	Peregian Beach	3	
	Coolum Beach		1
	Yaroomba	4	
	Hyatt Resort	4	
	Marcoola Beach		1
	Surfair Resort	4	
	Mudjimba Beach	4	
	Twin Waters	4	
	Maroochydore Beach		2
	Alexandra Headland		2
	Mooloolaba Beach		1
	Point Cartwright	3	
	Buddina Beach	6	
	Wurtulla Beach		1
	Currimundi Beach	4	
	Moffat Beach	3	
	Kings Beach (Caloundra)	6	1
	Woorim Beach (Bribie Island)	18	
	TOTAL	78	11
North Stradbroke Island	Amity Point	8	
	Flinders Beach	3	
	Cylinder Beach	12	
	Main Beach	12	
	TOTAL	35	-
Gold Coast	Sheraton	5	
	Main Beach		1
	Narrowneck	2	
	Staghorn Avenue	2	
	Elkhorn Avenue	2	
	Surfers Paradise		1
	Northcliffe	3	
	Broadbeach	2	
	Kurrawa		1
	Mermaid Beach		1
	Nobbys Beach	2	
	Miami Beach		1
	North Burleigh	2	
	Burleigh Beach		1
	Tallebudgera		1
	Palm Beach	2	

REGION	BEACH	AS AT 18 SEPT 2019	
		No. of Drumlines	No. of Nets
	Currumbin		1
	Tugun	3	
	Bilinga		1
	North Kirra	2	
	Kirra		1
	Coolangatta		1
	Rainbow Bay	8	
	TOTAL	35	11
Whitsundays ¹	N/A	-	-
	GRAND TOTAL	383	27

¹ All islands and areas within the Whitsundays Plan of Management are within the GBRMP.

2 Methods

2.1 Sourcing Data

Some of the data nominated in the SoW were supplied to Cardno by DAF in raw format. Other data were sourced mostly from the public domain. **Table 2-1** gives the components for each data type and their sources. Where possible, datasets were sourced as GIS layers but some included numerical outputs from publicly available oceanographic models and some information about beach users, lifeguards and stinger nets was provided on request by Surf Life Saving Queensland.

2.2 Summarising Data

Where possible, data types were presented in a spatial format. Some data types, however, were summarised graphically or in tables and in some instances in both these formats and a spatial format.

In all instances, data types were summarised at the beach-scale where possible. If data were not available at the beach-scale, they were presented at a scale appropriate to the scale at which they had been reported. If no data were available for a nominated parameter, or if Cardno was unable to obtain a specific known dataset for any reason, this was indicated as a 'data gap'.

Table 2-1 Description of each data type and sources of information.

Data Type No.	Description	Components	Sources
1	SCP catch	Target and non-target catch (2001-2018)	http://qfish.fisheries.qld.gov.au/
2	Independent regionally-specific shark population studies	None suitable	Data gap
3	Fisheries shark catch	Commercial fishing landings (2001-2018)	http://qfish.fisheries.qld.gov.au/
4	Incidents in the Australian Shark attack file for the regions and neighbouring areas	Unprovoked fatal and non-fatal bites in QLD	https://www.sharkattackfile.net/incidentlog.htm
5	Beach user statistics	Swimmers (between and outside the flags), craft users	Surf Life Saving Queensland
6	Population and visitor statistics	Resident human population, visitation rates	Australian Bureau of Statistics data, no data on visitation rates Visitation rates - Data gap
7	Current locations of swimming enclosures/stinger nets	Locations of swimming enclosures, locations of stinger nets	Surf Life Saving Queensland
8	SLSQ patrolled beaches, schedule of servicing, locations where drones already used	Patrol status of beaches including times, drone capability	Surf Life Saving Queensland
9	Physical characteristics	Secchi depth (water clarity), currents, wave climate, bathymetry, topography (elevation) of the coastline, tidal water levels	<p>Secchi Depth: eReefs BioGeoChemical Model (GBR4) (Herzfeld et al. 2016) (Weeks et al. 2012)</p> <p>Tidal and Ocean Currents: eReefs GBR1 Hydrodynamic Model (Herzfeld, et al., January 2016)</p> <p>Wave Climate: QLD DES Waverider Buoys (QLD Govt. 2019) and CSIRO CAWCR WW3 Wave Model (Durrant et al. 2014)</p> <p>Tidal Water Levels: QLD 2020 Tide Tables (QLD Govt. 2020)</p> <p>Bathymetry: Project 3DGBR (Beaman 2010)</p> <p>Topography: Cardno Basemap Gallery</p>
10	CASA exclusion zones, seabird exclusion zones	Airspace regulations and zonings, seabird exclusion zones in the Whitsundays	Whitsundays PoM (Seabird exclusion zones) OpenSky (2019) by Wing Aviation LLC https://wing.com/opensky/
11	Seamap Australia benthic habitat maps	Reef, seagrass, mangrove, soft substrata, saltmarsh, sand plus other benthic habitats	https://seamapaaustralia.org/ (CASA)
12	All relevant GBRMPA attributes, incl. for the Whitsundays Plan of Management (WPOM)	<p><u>For the GBRMP generally:</u> Marine Bioregions of the Great Barrier Reef (Reef and non-reef), Great Barrier Reef Marine Park Boundary, Management Areas of the GBRMP, Special Management Areas, Plans of Management boundaries (ALL), Whale Protection Area, Remote Natural Area of the GBRMP, Great Barrier Reef Marine Park Zoning and Zoning Map Extents (2010)</p> <p><u>For the WPOM:</u> No Anchoring Area, Langford-Black Islands Area, Designated Water Sports Area, Water Sports Allowed, Regular Aircraft Landing Areas and Settings boundary</p>	http://www.gbrmpa.gov.au/geoportal/catalog/download/download.page

3 Results

3.1 Data Type 1: SCP Catch

3.1.1 Key Findings

Analysis of SCP catch was conducted for the period 2001-2018 as these data were the only publicly available data at the time this report was written. Summaries of total and average catches of target shark species and incidentally-caught, non-target species by SCP drumlines and nets from 2001 to 2018 revealed some clear large-scale, inter-regional patterns, along with smaller scale patterns among beaches and gear-types within each SCP region (**Table 3-1** to **Table 3-11**). Refer to **Appendix B** for catch summaries for individual SCP gear units at each of the 86 SCP beaches. It should be noted that summaries have not considered temporal patterns. For information about temporal patterns in catch of the key target species of bull whaler and tiger shark refer to Cardno (2019).

3.1.1.1 Large-scale Patterns (Among Regions)

3.1.1.1.1 Catch Composition

Target shark species comprised at least around half, but usually the substantial majority, of total drumline catches across all 10 regions, ranging between 49.2% (Tannum Sands region) and 87.6% (Mackay region). In contrast, target species consistently comprised the minority of catches in nets, ranging between 6.6% (Cairns region) and 48.9% (Rainbow Beach region) of the total net catch. There was a substantially greater variety of non-target species of sharks, rays, marine mammals and marine turtles caught by net than by drumline across all regions.

Drumlines and nets each caught very different suites of animals – particularly of non-target species. There is also a clear latitudinal influence to the observed regional catch profiles from north (Cairns) to south (Gold Coast). Some of the very general patterns in the data included:

Bull whaler, tiger and white sharks

Totals of 1,687 bull whalers (~94 year⁻¹), 3,640 tiger sharks (~202 year⁻¹) and 108 white sharks (~14 year⁻¹) were caught by SCP gear between 2001 and 2018, with the proportions caught by drumlines being 79.8%, 94.3% and 62.0% for these species, respectively. **Table 3-1** summarises total and average annual catches for these species for each gear-type within and among regions. Some of the large-scale patterns included:

- > Tiger sharks were more prevalent in drumlines than nets where both gear-types were present, and were usually (but not always) the most abundant by far of the target sharks in drumline catches. The largest catches of tiger sharks in drumlines occurred at Townsville and Mackay and the least were at North Stradbroke Island and Gold Coast.
- > Bull whalers were usually (but not always) the second-most abundant of the target sharks in drumline catches, and usually the most abundant target shark species in the case of nets in the northern regions. The Capricorn Coast recorded the largest mean annual catch from drumlines, which was more than twice the next largest value (Townsville). These, and the other three northern regions (i.e. Cairns, Mackay and Tannum Sands), also recorded bull whaler catches that were greater than the five southern regions. The general pattern for bull whalers caught by nets was consistent with that for drumlines, with the largest mean annual catch recorded in the Mackay region, which is the only northern region that now deploys nets.
- > White sharks were not caught by drumline or net in any of the five northern-most regions but were caught in the more southern regions.

Other target sharks

- > Long-nose whalers (*Carcharhinus brevipinna*) were usually the most abundant target shark species caught in nets within the southern regions.

Non-target sharks and rays

- > Two species of whaler sharks, blacktip reef whaler (*Carcharhinus melanopterus*) and spot-tail whaler (*Carcharhinus sorrah*), and the tawny shark (*Nebrius ferrugineus*) were usually the most abundant

- non-target species caught by drumline in northern regions, while loggerhead turtles (*Caretta caretta*) were almost always the most abundant non-target species caught by drumline in southern regions.
- > Scalloped hammerheads (*Sphyrna lewini*) (and/or unspecified hammerhead species— most likely scalloped hammerhead) were consistently common in net and drumline catches throughout the geographical range of the SCP.
 - > Grey nurse sharks (*Carcharias taurus*) have been caught only in the southern-most four regions.
 - > Pelagic rays such as manta rays (*Manta* spp.), devilrays (*Mobula* spp.), cownose rays (*Rhinoptera bonasus*) and eagle rays (Family Myliobatidae) were abundant in net catches and less so in drumline catches, and accounted for greater proportions of the non-target catch in the central and southern regions.

Other non-target species

- > Marine mammals and sea turtles were more abundant in catches in southern regions than in northern regions – particularly in the case of marine mammals.
- > Dolphins (Delphinidae) and baleen whales (Mysticeti) were more readily caught by net than by drumline where both gear-types were present – particularly in the central and southern regions.
- > Humpback whales (*Megaptera novaeangliae*) have been caught only in the southern-most four regions.
- > Green turtles (*Chelonia mydas*) were the species of sea turtle most commonly caught in the northern regions, while loggerhead turtles were the species most commonly caught in the southern regions.

Note that these observations are highly generalised patterns, and there are exceptions, so they should be considered with caution.

3.1.1.1.2 Mortality Rates for Non-target Species

General patterns in mortality rates for the more commonly caught non-target species were consistent across all regions. Irrespective of gear-type, most non-target whalers, hammerheads (*Sphyrna* spp.) and makos (*Isurus* spp.) were almost always found dead on/in the gear (e.g. blacktip reef whalers, spot-tail whalers and scalloped hammerheads). In contrast, demersal species of sharks or rays were found and released alive most of the time when caught by drumline and around half of the time when caught by net (e.g. tawny sharks and zebra sharks). Pelagic rays such as mantas, devilrays, cownose rays and eagle rays, which were far more commonly caught in nets than by drumline, exhibited variable mortality following capture in nets with approximately half recovered dead.

Most marine mammals and sea turtles caught by drumline were usually found alive and subsequently released. In contrast, these species were much more likely to be found dead – more than half of the time – when caught by net, with sea turtles and whales apparently faring slightly better than dolphins, which rarely survived net capture. Teleost species caught, such as barramundi (*Lates calcarifer*), giant trevally (*Caranx ignobilis*, Carangidae) and tuna (Scombridae), were usually found dead when caught by either type of gear.

3.1.1.2 Intra-regional Patterns

3.1.1.2.1 Cairns

Catch data recorded from SCP units operating at beaches in the Cairns region from 2001 to 2018 comprised 1,073 catch records for drumlines (65.1% of which were target sharks) and 346 for nets (6.6% target sharks). Across the seven Cairns beaches, the proportion of the drumline catch comprising non-target animals ranged between 29.7% (Buchans Beach) and 43.7% (Holloways Beach), while for catches in nets this proportion ranged between 89.4% (Yorkey's Knob) and 97.6% (Palm Beach) (**Table 3-2**).

Target Shark Species

Tiger sharks were the most commonly caught of the target sharks by drumline (43.3% of total drumline catch; rate of 0.93 drumline⁻¹.year⁻¹), followed by bull whalers (13.6%; 0.29 drumline⁻¹.year⁻¹) and great hammerheads, *Sphyrna mokarran* (3.2%; 0.07 drumline⁻¹.year⁻¹). Bull whalers were the most commonly caught target species in nets (2.9% of total net catch; 0.14 net⁻¹.year⁻¹), followed by great hammerheads (3.2%; 0.08 net⁻¹.year⁻¹) and tiger sharks (3.2%; 0.07 net⁻¹.year⁻¹). Notably, the rate of capture (per unit, per year) of tiger sharks for net units was more than a magnitude lower than for drumline units, while in the case of bull whalers the rate for nets was around half that for drumlines (**Table 3-2**).

Ellis Beach yielded the most bull whalers via drumlines (annual average of 2.50 year⁻¹), followed by Palm Cove (1.72 year⁻¹) and Holloways Beach (1.24 year⁻¹) (**Table 3-1**). Similarly, Ellis Beach drumlines caught the most tiger sharks (9.11 year⁻¹), followed by Trinity Beach (5.29 year⁻¹) and Palm Cove (3.28 year⁻¹). Cairns nets caught far fewer individuals of these species annually, ranging between 0 and 0.46 bull whalers year⁻¹ at Ellis Beach and Yorkeys Knob Beach, respectively; and for tiger sharks between 0 year⁻¹ (Palm Cove and Clifton Beach) and 0.23 year⁻¹ (Ellis Beach).

Non-target Species

The most commonly caught non-target species by drumline across all Cairns beaches were blacktip reef whalers (20.0% of total drumline catch), followed by tawny sharks (5.0%) and scalloped hammerheads (4.7%). No marine mammals or sea turtles were caught by drumline. In contrast, the most commonly caught non-target species in nets were eagle rays (39.3% of total net catch), followed by narrow sawfish, *Anoxypristis cuspidata* (10.7%), scalloped hammerheads (9.0%), tawny sharks (8.7%) and green turtles (8.1%). At least four species of marine mammals (dolphins and dugong) and four species of sea turtles accounted for a combined proportion of 14.3% of the total net catch from Cairns beaches (**Table 3-2**).

Patterns Among Beaches

The catch rate (per gear unit, per year) of tiger sharks by drumline was highest at Ellis and Buchans beaches (both 1.61 drumline⁻¹.year⁻¹), followed by Trinity Beach (1.30 drumline⁻¹.year⁻¹), while it was lowest at Yorkey's Knob (0.32 drumline⁻¹.year⁻¹) and Palm Beach (0.43 drumline⁻¹.year⁻¹). The catch rate of bull whaler was also highest at Buchans Beach (0.48 drumline⁻¹.year⁻¹) and Ellis Beach (0.44 drumline⁻¹.year⁻¹), followed by Holloways Beach (0.33 drumline⁻¹.year⁻¹), with the lowest rate at Trinity Beach (0.17 drumline⁻¹.year⁻¹). In nets, the catch rate of bull whaler was highest at Trinity Beach (0.38 net⁻¹.year⁻¹) and lowest at Ellis Beach (none caught).

In the cases of the most commonly captured non-target species, the annual catch rate (fate and gear units combined, per year) for blacktip reef whaler caught by drumline ranged between 0.83 and 2.84 year⁻¹ at Yorkey's Knob and Ellis Beach respectively. In nets, the annual catch rate for eagle ray ranged between 0 and 3.46 year⁻¹ at Buchans Beach and Yorkey's Knob respectively (**Table 3-2**).

3.1.1.2.2 Townsville

Catch data recorded from SCP drumlines operating at beaches (or bays) in the Townsville region between 2001 and 2018 comprised a total of 2,125 catch records, with 55.0% of those animals being target sharks. No SCP nets are used in the Townsville region. Across the eight Townsville beaches, the proportion of the catch comprising non-target animals ranged between 29.5% (Radical Bay) and 78.2% (Picnic Bay) (**Table 3-3**).

Target Shark Species

Of the target shark species, the most commonly caught were tiger sharks (32.9% of total catch; rate of 0.73 drumline⁻¹.year⁻¹), followed by bull whalers (12.6%; 0.28 drumline⁻¹.year⁻¹) and great hammerheads (2.9%; 0.06 drumline⁻¹.year⁻¹). These results are very similar to those for drumline catches at Cairns beaches (**Table 3-3**).

Annual drumline catches of bull whalers and tiger sharks were highest at Horseshoe Bay (3.78 and 11.22 year⁻¹ respectively) followed by Florence Bay (3.11 and 9.56 year⁻¹ respectively) (**Table 3-1**). In contrast, far fewer individuals of these species have been caught by the drumlines at Picnic Bay (0.17 and 0.56 year⁻¹ respectively) and Pallarenda Beach (0.78 and 0.89 year⁻¹ respectively).

Non-target Species

The most commonly caught non-target species across all Townsville beaches were spot-tail whalers (13.0% of total catch), followed by tawny sharks (10.5%), blacktip reef whalers (6.4%) and an unspecified species of catfish (5.6%). Three species of marine mammals (dolphins and dugong) and two species of sea turtles

accounted for a combined proportion of 1.3% of the total catch from Townsville beaches, with green turtles the greatest contributor (1.1%) (**Table 3-3**).

Patterns Among Beaches

The catch rate (per gear unit, per year) of tiger sharks by drumline was highest at Florence Bay (1.91 drumline⁻¹.year⁻¹), followed by Radical Bay (1.30 drumline⁻¹.year⁻¹) and Alma Bay (1.30 drumline⁻¹.year⁻¹), while it was lowest at Picnic Bay (0.12 drumline⁻¹.year⁻¹) and The Strand (0.10 drumline⁻¹.year⁻¹). Similarly, the catch rate of bull whalers was also highest at Florence Bay, Radical Bay and Alma Bay (0.62, 0.33 and 0.33 drumline⁻¹.year⁻¹ respectively), while Picnic Bay (0.04 drumline⁻¹.year⁻¹) had the lowest catch rate for this species.

In the cases of the most commonly caught non-target species, the annual catch rate (fate and gear units combined, per year) for spot-tail whalers ranged between 0.44 and 3.17 year⁻¹ at Picnic Bay and Horseshoe Bay respectively. Annual catch rates for tawny sharks ranged between 0.44 year⁻¹ (Pallarenda Beach) and 3.06 year⁻¹ (Horseshoe Bay), and for blacktip reef whalers between 0.06 year⁻¹ (Pallarenda Beach) and 1.78 year⁻¹ (Nelly Bay). Most (~65%) of the green turtles recorded were caught at The Strand and Picnic Bay (**Table 3-4**).

3.1.1.2.3 Mackay

Catch data recorded from SCP units operating at beaches in the Mackay region between 2001 and 2018 comprised a total of 784 catch records for drumlines (87.6% target sharks) and 706 for nets (43.3% target sharks). Across the six beaches, the proportion of the drumline catch comprising non-target animals ranged between 9.3% (Lamberts Beach) and 22.2% (South Lamberts Beach), while for catches in nets this proportion ranged between 47.5% (Eimeo Beach) and 67.5% (Bucasia Beach) (**Table 3-4**).

Target Shark Species

Of the target shark species, by far the most commonly caught by drumline were tiger sharks (66.8% of total drumline catch; rate of 0.85 drumline⁻¹.year⁻¹), followed by bull whalers (18.2%; 0.23 drumline⁻¹.year⁻¹), with no other targeted species exceeding an overall catch rate of 0.01 drumline⁻¹.year⁻¹. Unlike Cairns nets, tiger sharks were the most commonly caught target species in nets (22.8% of total net catch; rate of 1.92 net⁻¹.year⁻¹), with bull whalers not far behind (18.6% of total net catch; rate of 1.56 net⁻¹.year⁻¹). Notably, the rates of capture (per unit, per year) for tiger sharks and bull whalers were both much greater for nets than for drumlines – the opposite of the pattern observed for Cairns beaches (**Table 3-4**).

Blacks Beach yielded the highest number of bull whalers via drumlines (2.61 year⁻¹), followed by Eimeo Beach (1.61 year⁻¹) (**Table 3-1**). In contrast, Lamberts Beach drumlines caught by far the highest number of tiger shark (13.11 year⁻¹), followed by Harbour Beach (7.89 year⁻¹). In the case of netted beaches, Bucasia Beach caught the most bull whalers in nets (4.53 year⁻¹), while Harbour Beach caught the highest number of tiger sharks (6.06 year⁻¹).

Non-target Species

The most commonly caught non-target species by drumlines across all Mackay beaches were tawny sharks (5.2% of total drumline catch), followed by blacktip reef whalers (3.2%) and scalloped hammerheads (1.3%). While no marine mammals were caught by drumline, a total of two loggerhead turtles were recorded.

In nets, the most commonly caught non-target species were cownose rays (24.9% of total net catch), scalloped hammerheads (6.4%), tawny sharks (5.8%) and blacktip reef whalers (5.1%). Four species of marine mammals (dolphins and dugong), three species of sea turtles and a total of five saltwater crocodiles accounted for a combined proportion of 5.7% of the total net catch from Mackay beaches (**Table 3-4**).

Patterns Among Beaches

The catch rate (per gear unit, per year) of tiger sharks by drumline was highest at Lamberts Beach (2.00 drumline⁻¹.year⁻¹), followed by Harbour Beach (0.88 drumline⁻¹.year⁻¹) and Blacks Beach (0.82 drumline⁻¹.year⁻¹). The lowest rates were at Eimeo Beach and Bucasia Beach (0.18 and 0.34 drumline⁻¹.year⁻¹ respectively). The catch rate of bull whalers was highest at Blacks Beach (0.47 drumline⁻¹.year⁻¹) and Lamberts Beach (0.31 drumline⁻¹.year⁻¹), while the lowest rate was at Bucasia Beach (0.08 drumline⁻¹.year⁻¹). In nets the catch rate of tiger sharks was highest at Harbour Beach (2.86 net⁻¹.year⁻¹), followed by Eimeo Beach (1.60 net⁻¹.year⁻¹) and Bucasia Beach (1.03 net⁻¹.year⁻¹), while the catch rate of bull whalers was highest at Bucasia Beach (2.33 net⁻¹.year⁻¹) and lowest at Eimeo Beach (1.47 net⁻¹.year⁻¹).

In the cases of the most commonly captured non-target species, the annual catch rate (fate and gear units combined, per year) for tawny sharks caught by drumline ranged between 0.11 and 1.00 year⁻¹ at Blacks

Beach and Lamberts Beach respectively. In nets, the annual catch rate for cownose rays ranged between 1.16 and 7.94 year⁻¹ at Harbour Beach and Bucasia Beach respectively. One dugong and one turtle were recorded for the Eimeo Beach net, with the remaining 39 mammals and reptiles recorded in nets caught at either Harbour Beach or Bucasia Beach (**Table 3-4**).

3.1.1.2.4 Capricorn Coast

Catch data recorded from SCP drumlines operating at beaches in the Capricorn Coast region between 2001 and 2018 comprised a total of 1,308 catch records, with 72.5% of those animals being target sharks. No SCP nets are used in the Capricorn Coast region. Across the nine Capricorn Coast beaches, the proportion of the catch comprising non-target animals ranged between 17.9% (Kemp Beach) and 35.7% (Farnborough Beach).

Target Shark Species

Of the target shark species, the most commonly caught were bull whalers (39.2% of total catch; rate of 0.52 drumline⁻¹.year⁻¹), followed by tiger sharks (24.3%; 0.32 drumline⁻¹.year⁻¹) and long-nose whalers (4.7%; 0.06 drumline⁻¹.year⁻¹) (**Table 3-5**).

Emu Park Beach drumlines caught the highest number of bull whalers (6.11 year⁻¹), followed by Tanby Point (5.00 year⁻¹) and Fishermans Beach (3.56 year⁻¹) (**Table 3-1**). In the case of tiger sharks, Tanby Point drumlines caught the highest number of tiger sharks (3.44 year⁻¹), followed by Mullambin Beach (2.67 year⁻¹) and Farnborough Beach (2.56 year⁻¹). The least number of individuals for these two species have been caught at Yeppoon Beach (1.22 and 0.83 year⁻¹ respectively), Cooee Bay (1.72 and 0.83 year⁻¹ respectively) and Kemp Beach (1.72 and 1.5 year⁻¹ respectively).

Non-target Species

The most commonly caught non-target species across all Capricorn Coast beaches were blacktip reef whalers (8.9% of total catch), followed by spot-tail whalers (5.0%), and tawny sharks and unidentified hammerheads (both 2.5%). At least one species of dolphin and at least two species of sea turtle accounted for a combined proportion of around 1.0% of the total catch from Capricorn Coast beaches, with loggerhead turtles the greatest contributor (0.5%) (**Table 3-5**).

Patterns Among Beaches

The catch rate (per gear unit, per year) of bull whalers was highest at Tanby Point (1.00 drumline⁻¹.year⁻¹), followed by Emu Park (0.87 drumline⁻¹.year⁻¹) and Mullambin Beach (0.7 drumline⁻¹.year⁻¹), while it was lowest at Yeppoon Beach (0.24 drumline⁻¹.year⁻¹) and Lammermoor Beach (0.26 drumline⁻¹.year⁻¹). The catch rate of tiger sharks was also highest at Tanby Point (0.69 drumline⁻¹.year⁻¹), followed by Mullambin Beach (0.53 drumline⁻¹.year⁻¹) and Farnborough Beach (0.51 drumline⁻¹.year⁻¹), while it was lowest at Cooee Bay (0.14 drumline⁻¹.year⁻¹) and Yeppoon Beach (0.17 drumline⁻¹.year⁻¹).

In the cases of the most commonly caught non-target species, the annual catch rate (fate and gear units combined, per year) for blacktip reef whalers ranged between 0.28 and 1.22 year⁻¹ at Yeppoon Beach and Farnborough Beach respectively. Annual catch rates for spot-tail whalers ranged between 0.06 year⁻¹ (Coee Bay and Kemp Beach) and 1.17 year⁻¹ (Tanby Point). No particular beach appeared to have been subject to notably excessive catches of marine mammals or sea turtles relative to other beaches (**Table 3-5**).

3.1.1.2.5 Tannum Sands

The Tannum Sands region comprises only the one 'beach': Tannum Sands. Catch data recorded from SCP drumlines operating in the Tannum Sands region between 2001 and 2018 comprised a total of 900 catch records, with 49.2% of those animals being target sharks and 50.8% non-target animals (**Table 3-6**).

Target Shark Species

Of the targeted shark species, the most commonly caught were tiger sharks (18.7% of total catch; rate of 0.65 drumline⁻¹.year⁻¹), followed by common blacktip whalers (12.3%; 0.43 drumline⁻¹.year⁻¹) and bull whalers (12.1%; 0.42 drumline⁻¹.year⁻¹) (**Table 3-6**).

The average annual catch of bull whaler at Tannum Sands Beach (6.06 year⁻¹) was very similar to that mentioned above for the Emu Park Beach in the Capricorn Coast region (**Table 3-1**). In contrast, the average annual catch of tiger sharks at Tannum Sands Beach (9.33 year⁻¹) was far higher than for any of the Capricorn Coast beaches.

Non-target Species

The most commonly caught non-target species on drumlines in the Tannum Sands region by far were blacktip reef whalers (45.2% of total catch), followed by green turtles (1.6%), and scalloped and unidentified hammerheads (both 0.7%). The annual catch rate (fate and gear units combined, per year) for blacktip reef whalers was 22.61 year⁻¹, which is far in excess of all rates for this species across other regions. While no marine mammals were captured, two species of sea turtles (the 14 green turtles plus four loggerhead turtles) accounted for a combined proportion of around 2.0% of the total catch in the Tannum Sands region (**Table 3-6**).

3.1.1.2.6 Woongarra Coast

Catch data recorded from SCP drumlines operating at beaches in the Woongarra Coast region between 2001 and 2018 comprised a total of 921 catch records, with 76.9% of those animals being target sharks. No SCP nets are used in the Woongarra Coast region. Across the four Woongarra Coast beaches, the proportion of the catch comprising non-target animals ranged between 15.2% (Kellys Beach) and 53.2% (Oaks Beach) (**Table 3-7**).

Target Shark Species

Of the target shark species, by far the most commonly caught were tiger sharks (52.7% of total catch; rate of 1.35 drumline⁻¹.year⁻¹), followed by sandbar sharks (*Carcharhinus plumbeus*) and sharptooth sharks, also known as lemon sharks (*Negaprion acutidens*) (both 7.8% and 0.20 drumline⁻¹.year⁻¹) and bull whalers (4.0%; 0.10 drumline⁻¹.year⁻¹). Seven white sharks (0.8% of total catch; 0.02 drumline⁻¹.year⁻¹) were also recorded for Woongarra Coast beaches – the furthest north this species has been recorded in SCP catches (**Table 3-7**).

Average annual catches of bull whalers for drumlines at Woongarra Coast beaches were small relative to those beaches in the northern regions, ranging from 0.06 year⁻¹ (Oaks Beach and Bargara Beach) to 1.00 year⁻¹ (Kelly's Beach) (**Table 3-1**). In contrast, when compared against catches from beaches in regions to the north, Kelly's Beach and Nielsen Park Beach were characterised by large catches of tiger sharks (16.94 and 8.28 year⁻¹ respectively) and white sharks (0.22 and 0.17 year⁻¹ respectively), with this region being the northern-most region to record catches of the latter species.

Non-target Species

The two most commonly caught non-target species across all Woongarra Coast beaches were sea turtles, including loggerhead turtles (37 turtles, 4.0% of total catch) and green turtles (30 turtles, 3.3%). Blacktip reef whalers were the third most common non-target species (2.5% of total catch), while a notable quantity of manta rays was also recorded (2.1%). No marine mammals have been captured by SCP drumlines at Woongarra Coast beaches (**Table 3-7**).

Patterns Among Beaches

The catch rate (per gear unit, per year) of tiger sharks was greatest at Kellys Beach (1.88 drumline⁻¹.year⁻¹) and smallest at Oaks Beach (0.28 drumline⁻¹.year⁻¹). The catch rate of bull whalers was greatest at Neilson Park Beach (0.16 drumline⁻¹.year⁻¹) and smallest at Bargara Beach (0.02 drumline⁻¹.year⁻¹), while catch rates of white sharks were 0.02 and 0.03 drumline⁻¹.year⁻¹ at Kellys Beach and Neilson Park Beach, respectively, with no white sharks caught at other Woongarra Coast beaches.

In the cases of the most commonly caught non-target species, the annual catch rate (fate and gear units combined, per year) for loggerhead turtles ranged between 0.33 and 1.00 year⁻¹ at Oaks Beach and Neilson Park respectively, while for green turtles it ranged between 0.06 and 0.89 year⁻¹ at Bargara Beach and Neilson Park Beach, respectively. Sea turtles were caught across all Woongarra region beaches. Annual catch rates for blacktip reef whalers ranged from 0.06 year⁻¹ (Oaks Beach) to 0.83 year⁻¹ (Kellys Beach) (**Table 3-7**).

3.1.1.2.7 Rainbow Beach

The Rainbow Beach region includes only the one beach, Rainbow Beach, with drumlines and nets both deployed there. Catch data recorded from SCP drumlines operating in the region between 2001 and 2018 comprised a total of 557 catch records, with 64.8% of those animals being target sharks and 35.2% non-target animals. In total, 706 catches were recorded for the nets, with 48.9% for target sharks and 51.1% for non-target animals (**Table 3-8**).

Target Shark Species

Of the target shark species, the most commonly caught by drumline were tiger sharks (49.6% of total drumline catch; rate of 1.28 drumline⁻¹.year⁻¹), followed by bull whalers (6.5%; 0.17 drumline⁻¹.year⁻¹) and dusky whalers (3.6%; 0.09 drumline⁻¹.year⁻¹). Long-nose whalers were the most commonly caught target species in the nets (22.1% of total net catch; rate of 2.89 net⁻¹.year⁻¹), followed by bull whalers (7.5%; 0.98 net⁻¹.year⁻¹), great hammerheads (6.9%; 0.98 net⁻¹.year⁻¹) and dusky whalers, *Carcharhinus obscurus* (6.1%; 0.98 net⁻¹.year⁻¹). Nine white sharks were also captured at Rainbow Beach, with six from drumlines (1.1% of total drumline catch; 0.03 drumline⁻¹.year⁻¹) and three in nets (0.4% of total net catch; 0.06 net⁻¹.year⁻¹) (**Table 3-8**).

The average annual catch of bull whalers by drumline at Rainbow Beach (2.00 year⁻¹) was similar to, but slightly less, than for nets (2.94 year⁻¹) (**Table 3-1**). In contrast, the average annual catch of tiger sharks for Rainbow Beach from drumlines (15.33 year⁻¹) exceeded that for nets in the region (1.11 year⁻¹), while more white sharks were also caught in drumlines (0.33 year⁻¹) than in nets (0.17 year⁻¹).

Non-target Species

As was the case for the Woongarra Coast, by far the most commonly caught non-target species on drumlines in the Rainbow Beach region were loggerhead turtles (30.2% of total drumline catch), with an annual catch rate (fate and gear units combined, per year) by drumline of 9.33 year⁻¹. No other species exceeded 1.3% of the total drumline catch. In contrast, tuna of unspecified species was the most commonly caught non-target animal in nets (12.6% of total net catch; annual catch rate in nets of 4.95 year⁻¹), followed by blacktip reef whalers (5.4%; 2.12 year⁻¹) and loggerhead turtles (3.5%; 1.39 year⁻¹). It must be noted also, however, that when combined, 56 individuals from four species of pelagic-swimming ray (manta rays, devilrays, cownose rays and eagle rays) accounted for 7.9% of the total catch from nets (annual catch rate 3.12 year⁻¹), while only one manta ray was caught by drumline. Eight grey nurse sharks were also caught in nets (1.1% of total net catch), with one by drumline.

In addition to the large number of loggerhead turtles mentioned above, two species of dolphins and two other species of sea turtles accounted for a combined proportion of 32.2% of the total drumline catch from Rainbow Beach. Marine mammals (at least five species) and sea turtles (at least three species) also accounted for 11.2% of the catch from nets, with common dolphin a major contributor (2.4% of total net catch; annual catch rate in nets of 0.94 year⁻¹) alongside the net-caught loggerhead turtles mentioned above. Seven humpback whales were also recorded, representing 1% of the total catch in Rainbow Beach nets at an annual catch rate of 0.39 year⁻¹. This is the northern-most record for whales caught by SCP gear (**Table 3-8**).

3.1.1.2.8 Sunshine Coast

Catch data recorded from SCP drumlines operating at beaches within the Sunshine Coast region between 2001 and 2018 comprised a total of 514 catch records, with 85.1% of those animals being target sharks and 14.9% non-target animals. In total, there were 1,218 records for the SCP nets, with 47.8% for target sharks and 52.2% for non-target animals. Across the 17 beaches with drumlines the proportion of the drumline catch comprising non-target animals ranged from 0% (Peregian Beach and Hyatt Resort) to 44.1% (Currimundi), while for catches in nets (at 8 beaches) the proportion ranged from 40.1% (Wurtulla) to 71.4% (Caloundra Beach) (**Table 3-9**).

Target Shark Species

Of the target shark species, the most commonly caught by drumline were tiger sharks (56.6% of total drumline catch; rate of 0.21 drumline⁻¹.year⁻¹), followed by bull whalers (10.9%; 0.04 drumline⁻¹.year⁻¹) and long-nose whalers (5.6%; 0.02 drumline⁻¹.year⁻¹). As at Rainbow Beach, long-nose whalers were the most commonly caught target species in nets (25.9% of total net catch; rate of 1.67 net⁻¹.year⁻¹), followed by bull whalers (8.8%; 0.57 net⁻¹.year⁻¹) and great hammerheads (6.7%; 0.43 net⁻¹.year⁻¹). Twelve white sharks were recorded, with nine caught by drumline (1.8% of total drumline catch; 0.01 drumline⁻¹.year⁻¹) and three by net (0.2% of total net catch; 0.02 net⁻¹.year⁻¹) (**Table 3-9**).

Woorim Beach (Bribie Island) yielded the highest number of bull whalers using drumlines (1.17 year⁻¹), followed by Kings Beach (0.78 year⁻¹) and Noosa (0.22 year⁻¹) (**Table 3-1**). Noosa drumlines caught the most tiger sharks (4.11 year⁻¹), followed by Buddina Beach and Kings Beach (both 1.67 year⁻¹). For beaches only with nets, Noosa and Maroochydore Beach yielded the most bull whalers (2.56 and 1.94 year⁻¹ respectively) and tiger sharks (0.33 and 0.24 year⁻¹ respectively). Noosa (0.11 year⁻¹), Hyatt Resort (0.11 year⁻¹) and Kings Beach (0.11 year⁻¹) yielded the greatest annual average catch of white sharks in the region (**Table 3-9**).

Non-target Species

Drumline catches in the Sunshine Coast region were characterised by notably low catches of non-target animals, particularly given the relatively large number of units operating. Similar to the two regions to the immediate north, by far the most commonly caught non-target species on drumlines in the Sunshine Coast region were loggerhead turtles (6.8% of total drumline catch), followed by common dolphins, *Delphinus delphis* (1.8%). No other species exceeded 1.0% of the total drumline catch. In contrast, manta ray was the most commonly caught non-target species in nets (6.2% of total net catch), followed by unspecified hammerheads species (5.2%) and unspecified ray species (4.8%). It is worth noting that when combined, four species of pelagic-swimming rays (manta rays, devilrays, cownose rays and eagle rays) accounted for 18.1% of the total net catch, while the unspecified hammerheads species and scalloped hammerheads combined accounted for 7.7%. Fifteen grey nurse sharks were also caught in nets (1.2% of total net catch), and three caught by drumline.

In addition to drumline-caught loggerhead turtles and common dolphins mentioned above, at least two other species of marine mammals (including one humpback whale) and at least three other species of sea turtles accounted for a combined proportion of 11.6% of the total drumline catch from Sunshine Coast beaches. In The yield from nets included at least six species of marine mammals (including seven humpback whales) and at least four species of sea turtles and two unidentified birds, accounting in total for 11.0% of the catch from nets, with common dolphins (3.9%), bottlenose dolphins, *Tursiops truncatus* (1.8%) and loggerhead turtles (1.6%) the major contributors (**Table 3-9**).

Patterns Among Beaches

The catch rate (per gear unit, per year) of tiger sharks by drumline was greatest at Noosa (1.37 drumline⁻¹.year⁻¹) and lowest at Woorim (Bribie Island) (0.03 drumline⁻¹.year⁻¹), while the catch rate of bull whalers was greatest at Caloundra Beach (0.13 drumline⁻¹.year⁻¹) and least at Glen Eden / Marcus Beach, Yaroomba Beach, Mudjuimba Beach and Twin Waters Resort (none caught). In nets the catch rate of long-nose whalers was greatest at Noosa (3.42 net⁻¹.year⁻¹) and least at Mooloolaba Beach (0.41 drumline⁻¹.year⁻¹), while the catch rate of bull whalers was also greatest at Noosa (1.28 net⁻¹.year⁻¹) and least at Coolum Beach, Mooloolaba Beach and Wurtulla (0.18 net⁻¹.year⁻¹).

In the cases of the most commonly captured non-target species, the annual catch rate (fate and gear units combined, per year) for loggerhead turtles caught by drumline varied, ranging between zero at a number of beaches (e.g. Sunshine Beach, Peregrin Beach and Point Cartwright) up to 0.56 year⁻¹ at both Buddina Beach and Currimundi. In nets, the annual catch rate for manta rays ranged from 0.06 to 1.94 year⁻¹ at Mooloolaba Beach and Noosa, respectively. No clear patterns are apparent among Sunshine Coast beaches with respect to catches of marine mammals and sea turtles in either drumlines or nets, with a more-or-less even spread in the cases of both gear-types (**Table 3-9**).

3.1.1.2.9 North Stradbroke

The North Stradbroke region uses only drumlines and between 2001 and 2018 yielded 338 catch records, with 72.6% comprising target sharks. Among the four North Stradbroke beaches, the proportion of the catch comprising non-target animals ranged between 0% (Flinders Beach, which has only been operational since 2017) and 52.3% (Amity Point) (**Table 3-10**).

Target Shark Species

Of the target shark species the most commonly caught were tiger sharks (37.6% of total catch; rate of 0.27 drumline⁻¹.year⁻¹), followed by dusky whalers (14.8%; 0.11 drumline⁻¹.year⁻¹) and bull whalers (8.3%; 0.06 drumline⁻¹.year⁻¹). Sixteen white sharks (4.7% of total catch; 0.03 drumline⁻¹.year⁻¹) were also recorded for North Stradbroke beaches (**Table 3-10**).

Average annual catches of bull whalers for drumlines for North Stradbroke Island beaches except Flinders Beach, which has only been operating since 2017, ranged from 0.28 year⁻¹ at Cylinder Beach to 0.83 year⁻¹ at Amity Point (**Table 3-1**). Catches of tiger sharks were larger, ranging from 0.28 year⁻¹ at Amity Point to 2.22 year⁻¹ at Main Beach and 4.33 year⁻¹ at Cylinder Beach. These two beaches account for the entire catch of white shark, with annual averages of 0.33 and 0.56 year⁻¹, respectively.

Non-target Species

The most commonly caught non-target species across all North Stradbroke beaches were loggerhead turtles (60 turtles, 17.8% of total catch), and blacktip reef whalers (3.0%). Catches of at least one hammerhead species and of manta rays were also recorded. Three marine mammal species (including one humpback

whale) and at least three sea turtle species (including loggerhead turtles) accounted for a combined proportion of 20.2% of the total drumline catch from North Stradbroke beaches (**Table 3-10**).

Patterns Among Beaches

The catch rate (per gear unit, per year) of tiger sharks was greatest at Flinders Beach (0.67 drumline⁻¹.year⁻¹) and least at Amity Point (0.03 drumline⁻¹.year⁻¹), while the catch rate of bull whalers was greatest at Amity Point (0.10 drumline⁻¹.year⁻¹) and least at Flinders Beach (none recorded). Catch rates of white sharks were 0.07 and 0.03 drumline⁻¹ year⁻¹ at Cylinder Beach and Ocean Beach respectively, with no white sharks recorded at other North Stradbroke beaches.

In the cases of the most commonly caught non-targeted species, the annual catch rate (fate and gear units combined, per year) for loggerhead turtles ranged between 0 and 1.84 year⁻¹ at Flinders Beach and Cylinder Beach respectively, while for blacktip reef whalers annual catch rates ranged between 0 and 1.84 year⁻¹, also at Flinders Beach and Cylinder Beach, respectively (**Table 3-10**).

3.1.1.2.10 Gold Coast

Catch data recorded from SCP drumlines operating here from 2001 to 2018 totalled 301 catch records, with 64.2% of those animals being target sharks and 35.8% non-target animals. In total, 1,425 catches were recorded in the nets, comprising (22.7% target and 77.3% non-target). Among the 12 beaches with drumlines the proportion of the drumline catch comprising non-target animals ranged from 21.7% (Broadbeach) to 60.0% (Elkhorn Ave), while for catches in nets (at 11 beaches) the proportion ranged from 72.4% (Kurrawa Beach) to 83.5% (Mermaid Beach) (**Table 3-11**).

Target Shark Species

Of the target shark species, the most commonly caught by drumline were tiger sharks (27.6% of total drumline catch; rate of 0.13 drumline⁻¹ year⁻¹), followed by white sharks (9.6%; 0.05 drumline⁻¹ year⁻¹), dusky whalers (7.0%; 0.03 drumline⁻¹ year⁻¹), sandbar whalers (5.6%; 0.03 drumline⁻¹.year⁻¹) and bull whalers (4.7%; 0.02 drumline⁻¹.year⁻¹). Long-nose whalers were the most commonly caught target species captured in nets (10.8% of total net catch; rate of 0.81 net⁻¹ year⁻¹), followed by bull whalers (3.2%; 0.24 net⁻¹.year⁻¹), great hammerheads (3.0%; 0.23 net⁻¹.year⁻¹) and white sharks (2.5%; 0.18 net⁻¹.year⁻¹) (**Table 3-11**).

Sheraton – at the northern end of the region – yielded the most bull whalers via drumlines (0.17 year⁻¹), but this equated to only three individuals for the entire 18 year period (**Table 3-1**). Netted beaches in the region yielded larger catches of bull whalers, with the most from Tallebudgera (0.47 year⁻¹) and Currumbin (0.39 year⁻¹). Rainbow Beach drumlines caught by far the highest number of tiger shark (1.72 year⁻¹), followed by Sheraton and Broadbeach (both 0.50 year⁻¹). For netted beaches, Kirra Beach yielded the most tiger sharks (0.18 year⁻¹) but, like bull whalers on Sheraton drumlines, this equated to only three individuals in total. Rainbow Beach drumlines (0.67 year⁻¹) and nets at Burleigh Beach and Kirra Beach (both 0.41 year⁻¹) caught the most white sharks for those gears in the Gold Coast region.

Non-target Species

Similar to other southern regions, loggerhead turtles were by far the most commonly caught non-target species on drumlines in the Gold Coast region (24.6% of total drumline catch), followed by common dolphin and green turtle (both 2.3%). Cownose ray was the most commonly caught non-target species in nets (26.0% of total net catch), followed by scalloped hammerheads (17.2%), common dolphins (6.7%), shovel-nosed rays, *Aptychotrema* spp. (5.5%) and humpback whales and eagle rays (both 3.4%). When combined, four species of pelagic-swimming rays (manta rays, devilrays, cownose rays and eagle rays) accounted for 33.8% of the total catch using nets. Six grey nurse sharks were caught in nets (0.4% of total net catch), with none caught by drumline.

In addition to the marine mammals and sea turtles mentioned above, at least one other species of dolphin and two other species of sea turtles accounted for a combined proportion of 32.1% of the total drumline catch. At least three other species of marine mammals (including an Antarctic Minke whale) and four species of sea turtle accounted for 16.2% of the catch from nets (**Table 3-11**).

Patterns Among Beaches

The catch rate (per gear unit, per year) of tiger sharks from drumlines was greatest at Broadbeach (0.25 drumline⁻¹.year⁻¹) and smallest at Palm Beach (0.03 drumline⁻¹.year⁻¹), while the catch rate of white sharks was greatest at North Burleigh (0.14 drumline⁻¹.year⁻¹) and smallest at Broadbeach and Palm Beach (none caught). The catch rate of bull whalers by drumline was greatest at Staghorn Ave, Nobby's Beach and Palm Beach (0.06 drumline⁻¹.year⁻¹) and smallest at Narrowneck Beach, Elkhorn Ave, North Burleigh, Tugun Beach and North Kirra Beach (none caught). In nets the catch rate of long-nose whalers was greatest at

Bilinga Beach (1.47 net⁻¹.year⁻¹) and smallest at Surfers Paradise (0.35 net⁻¹.year⁻¹), while the catch rate of bull whalers was greatest at Tallebudgera Beach (0.47 net⁻¹.year⁻¹) and smallest at Mermaid Beach (0.06 net⁻¹.year⁻¹). The catch rate of white sharks in nets was greatest at Burleigh Beach and Kirra Beach (0.41 net⁻¹.year⁻¹) and smallest at Kurrawa Beach and Miami Beach (0.06 net⁻¹.year⁻¹).

For non-target species, the annual catch rate for loggerhead turtles caught by drumline ranged between 0.11 year⁻¹ (Sheraton Mirage, Palm Beach, Tugun Beach and North Kirra Beach) up to 1.56 year⁻¹ at Rainbow Beach. In nets, the annual catch rate for cownose rays ranged between 0.18 and 3.05 year⁻¹ at Surfers Paradise and Currumbin Beach, respectively. No clear patterns among Gold Coast beaches are apparent with respect to catches of marine mammals and sea turtles in drumlines or in nets, with a more-or-less even spread in the cases of both gear-types (**Table 3-11**).

3.1.2 Limitations of Data

All SCP catch data summarised and presented in this report were sourced from the SCP portal within QFish – an online set of datasets and interactive tools that provide public access to information concerning Queensland's fisheries resources and various types of fishing activities (i.e. recreational, commercial and SCP gear). The accuracy of all summary tables presented in this report depend on the integrity and accuracy of data downloaded from QFish. While reasonable measures were taken to ensure accuracy and integrity of the summary tables in this report, it is acknowledged that some issues within the database (and Cardno's approaches to issues) may have affected accuracy.

Cardno notes the following issues with the QFish SCP catch data and our approaches to deal with these issues:

- > **Zero Catch and Deployment Years** – There are no records in the QFish SCP database for years where there was 'zero catch' from a drumline or net unit and there is no specific information concerning the deployment years and/or decommissioning of specific SCP gear units. These data are necessary to calculate mean annual catches and standard errors.

Cardno's approach to this issue – Cross-checking catch data downloads against lists of currently deployed SCP drumline or net units by beach, and against 'APPENDIX B - HISTORICAL CHANGES TO GEAR LOCATIONS WITHIN SCP REGIONS' in Cardno (2019). In lieu of clearly interpretable information regarding the timing of deployment and/or decommissioning of specific drum or net units, the presence or absence of catch data for other units at that given beach among years was used as an indicator where applicable.

- > **Names of Gear Units** – Cardno has noted some errors and inconsistencies among records in the names and numbering of SCP drumline and net units within the QFish SCP database. Variability in spelling of place names, nomenclature of units through time, and apparent erroneous unit numbering are the most common errors.

Cardno's approach to this issue – Obvious, or sensible and justifiable judgement corrections to the datasets were possible in most cases. In instances where a logical resolution could not be determined, the data were either: accepted at face value and summarised accordingly in the tables irrespective of disparities to the lists of currently deployed SCP drumline or net units by beach; or excluded from summaries in this report.

- > **Inter-regional and inter-beach comparison of catch of bull whaler, tiger and white shark** – The spatial and temporal variability in fishing effort within beaches and regions (i.e. differences in and unclear changes to the numbers of units deployed per beach), prevents clear and accurate inter-beach comparisons with respect to the effectiveness of the program on these species.

Cardno's approach to this issue – Summaries given in **Table 3-1** for bull whaler, tiger and white sharks should be considered to be only a general overview of catches among beaches and not used for direct assessment of the effectiveness of the program among gears, beaches and/or regions.

In addition to the quality of data, differences in operations among regions or beaches in any aspect of operations could lead to biases in catch. This type of information was not sought but could potentially include variability in the:

- > Spacing of drumlines within beaches;
- > Depth at which drum line hooks and nets are set;

- > Set times and frequency of checking; and
- > Bait type and its freshness.

3.1.3 Maps and Summaries

Over page

Table 3-1 Total catch and mean catch per year (2001-2018) at beaches for bull whaler, tiger and white sharks.

REGION and BEACH	BULL WHALER				TIGER SHARK				WHITE SHARK			
	Drumlines Total	Mean	Net(s) Total	Mean	Drumlines Total	Mean	Net(s) Total	Mean	Drumlines Total	Mean	Net(s) Total	Mean
CAIRNS												
Ellis Beach	45	2.5	0	0.0	164	9.1	3	0.2	0	0.0	0	0.0
Buchans Beach	15	0.9			50	2.9			0	0.0		
Palm Cove	31	1.7	1	0.1	59	3.3	0	0.0	0	0.0	0	0.0
Clifton Beach	11	0.6	1	0.1	33	1.8	0	0.0	0	0.0	0	0.0
Trinity Beach	12	0.7	2	0.2	90	5.3	1	0.1	0	0.0	0	0.0
Yorkeys Knob Beach	11	0.6	6	0.5	17	0.9	1	0.1	0	0.0	0	0.0
Holloways Beach	21	1.2			52	3.1			0	0.0		
<i>Beaches combined</i>	146	8.1	10	0.8	465	25.8	5	0.4	0	0.0	0	0.0
TOWNSVILLE												
Horseshoe Bay	68	3.8			202	11.2			0	0.0		
Radical Bay	30	1.7			117	6.5			0	0.0		
Florence Bay	56	3.1			172	9.6			0	0.0		
Alma Bay	36	2.0			106	5.9			0	0.0		
Nelly Bay	10	0.6			60	3.3			0	0.0		
Picnic Bay	3	0.2			10	0.6			0	0.0		
Pallarenda Beach	14	0.8			16	0.9			0	0.0		
The Strand	51	2.8			16	0.9			0	0.0		
<i>Beaches combined</i>	268	14.9			699	38.8			0	0.0		
MACKAY												
Bucasia Beach	10	0.6	77	4.5	41	2.3	34	2.0	0	0.0	0	0.0
Eimeo Beach	29	1.6	22	1.5	19	1.1	24	1.6	0	0.0	0	0.0
Blacks Beach	47	2.6			81	4.5			0	0.0		
Lamberts Beach	36	2.0			236	13.1			0	0.0		
Sth Lamberts Beach	2	1.0			5	2.5			0	0.0		
Harbour Beach	19	1.1	32	1.9	142	7.9	103	6.1	0	0.0	0	0.0
<i>Beaches combined</i>	143	7.9	131	7.7	524	29.1	161	9.5	0	0.0	0	0.0
CAPRICORN COAST												
Farnborough Beach	53	2.9			46	2.6			0	0.0		
Yeppoon Beach	22	1.2			15	0.8			0	0.0		
Coote Bay	31	1.7			15	0.8			0	0.0		
Lammermoor Beach	46	2.6			37	2.1			0	0.0		
Kemp Beach	31	1.7			27	1.5			0	0.0		
Mullambin Beach	63	3.5			48	2.7			0	0.0		
Tanby Point	90	5.0			62	3.4			0	0.0		
Fishermans Beach	64	3.6			28	1.6			0	0.0		
Emu Park Beach	110	6.1			38	2.1			0	0.0		
<i>Beaches combined</i>	510	28.3			316	17.6			0	0.0		
TANNUM SANDS												
Tannum Sands	109	6.1			168	9.3			0	0.0		
WOONGARRA COAST												
Oaks Beach	1	0.1			10	0.6			0	0.0		
Nielsen Park Beach	17	0.9			149	8.3			3	0.2		
Bargara Beach	1	0.1			21	1.2			0	0.0		
Kelly's Beach	18	1.0			305	16.9			4	0.2		
<i>Beaches combined</i>	37	2.1			485	26.9			7	0.4		
RAINBOW BEACH												
Rainbow Beach	36	2.0	53	2.9	276	15.3	20	1.1	6	0.3	3	0.2
SUNSHINE COAST												
Noosa	4	0.2	46	2.6	74	4.1	6	0.3	2	0.1	0	0.0
Sunshine Beach	2	0.1			22	1.2			1	0.1		
Sunrise Beach	3	0.2			16	0.9			0	0.0		
North Peregrian Beach	1	0.1			19	1.1			0	0.0		
Glen Eden Beach	0	0.0			12	0.7			0	0.0		
Peregrian Beach	2	0.1			5	0.3			0	0.0		
Coolool Beach			3	0.2			1	0.1			1	0.1
Yaroomba	0	0.0			10	0.6			0	0.0		
Hyatt Resort	1	0.1			11	0.6			2	0.1		
Marcoola Beach			4	0.2			0	0.0			1	0.1
Surfair Resort	1	0.1			9	0.5			0	0.0		
Mudjimba Beach	0	0.0			6	0.3			0	0.0		
Twin Waters	0	0.0			6	0.3			0	0.0		
Maroochyodre Beach			33	1.9			4	0.2			1	0.1
Alexandra Headland			8	0.4			0	0.0			0	0.0
Mooloolaba Beach			3	0.2			0	0.0			0	0.0
Point Cartwright	1	0.1			13	0.7			0	0.0		
Buddina Beach	1	0.1			30	1.7			0	0.0		
Wurtulla Beach			3	0.2			2	0.1			0	0.0
Currimundi Beach	3	0.2			14	0.8			0	0.0		
Moffat Beach	2	0.1			4	0.2			1	0.1		
Kings Beach (Caloundra)	14	0.8	7	0.4	30	1.7	0	0.0	2	0.1	0	0.0
Woorim Beach (Bribie I)	21	1.2			10	0.6			1	0.1		
<i>Beaches combined</i>	56	3.1	107	5.9	291	16.2	13	0.7	9	0.5	3	0.2
NORTH STRADBROKE ISLAND												
Amity Point	15	0.8			5	0.3			0	0.0		
Flinders Beach	0	0.0			4	2.0			0	0.0		
Cylinder Beach	5	0.3			78	4.3			10	0.6		
Main Beach	8	0.4			40	2.2			6	0.3		
<i>Beaches combined</i>	28	1.6			127	7.1			16	0.9		
GOLD COAST												
Sheraton	3	0.2			9	0.5			1	0.1		
Main Beach			4	0.2			1	0.1			4	0.2
Narrowneck	0	0.0			2	0.1			2	0.1		
Staghorn Avenue	2	0.1			6	0.3			1	0.1		
Elkhorn Avenue	0	0.0			2	0.1			1	0.1		
Surfers Paradise			4	0.2			0	0.0			3	0.2
Northcliffe	2	0.1			5	0.3			2	0.1		
Broadbeach	1	0.1			9	0.5			0	0.0		
Kurrawa			5	0.3			1	0.1			1	0.1
Mermaid Beach			1	0.1			0	0.0			2	0.1
Nobbys Beach	2	0.1			2	0.1			3	0.2		
Miami Beach			3	0.2			1	0.1			1	0.1
North Burleigh	0	0.0			6	0.3			5	0.3		
Burleigh Beach			5	0.3			0	0.0			7	0.4
Tallebudgera			8	0.5			1	0.1			2	0.1
Palm Beach	2	0.1			1	0.1			0	0.0		
Currumbin			7	0.4			0	0.0			4	0.2
Tugun	0	0.0			4	0.2			1	0.1		
Bilinga			4	0.2			0	0.0			2	0.1
North Kirra	0	0.0			6	0.3			1	0.1		
Kirra			2	0.1			3	0.2			7	0.4
Coolangatta			3	0.2			0	0.0			2	0.1
Rainbow Bay	2	0.1			31	1.7			12	0.7		
<i>Beaches combined</i>	14	0.8	46	2.6	83	4.6	7	0.4	29	1.6	35	1.9
Grand Total & Mean	1347	74.8	347	19.3	3434	190.8	206	11.4	67	3.7	41	2.3

Table 3-2 Cairns Region SCP catch (2001-2018)

TAXA	ELLIS BEACH								BUCHANS BEACH								PALM COVE BEACH							
Target species	DRUMLINES				NET				DRUMLINES				DRUMLINES				NET							
	Total no.	% Total	No./unit/yr (SE)	DEAD No./Yr (SE)	Total no.	% Total	RELEASED No./Yr (SE)	DEAD No./Yr (SE)	Total no.	% Total	RELEASED No./Yr (SE)	DEAD No./Yr (SE)	Total no.	% Total	RELEASED No./Yr (SE)	DEAD No./Yr (SE)	Total no.	% Total	RELEASED No./Yr (SE)	DEAD No./Yr (SE)				
Australian Blacktip	0	0			0	0			1	1	0.03 (0.03)		0	0			0	0						
Bull Whaler	45	13.7	0.44 (0.15)		0	0			15	14.3	0.48 (0.11)		31	18.1	0.22 (0.04)		1	2.2	0.06 (0.06)					
Common Blacktip Whaler	0	0			0	0			1	1	0.03 (0.03)		1	0.6	0.01 (0.01)		0	0						
Dusky Whaler	0	0			0	0			0	0			2	1.2	0.01 (0.01)		0	0						
Great Hammerhead	11	3.4	0.11 (0.08)		1	1	0.06 (0.07)		2	1.9	0.06 (0.04)		9	5.3	0.07 (0.02)		0	0						
Long Nose Whaler	1	0.3	0.01 (0.02)		0	0			1	1	0.03 (0.03)		4	2.3	0.03 (0.01)		0	0						
Pigeye Whaler	4	1.2	0.04 (0.05)		0	0			2	1.9	0.06 (0.04)		1	0.6	0.01 (0.01)		0	0						
Sandbar Whaler	0	0			0	0			2	1.9	0.06 (0.04)		0	0			0	0						
Sharptooth Shark	3	0.9	0.03 (0.04)		0	0			0	0			4	2.3	0.03 (0.01)		0	0						
Silky Whaler	1	0.3	0.01 (0.02)		0	0			0	0			0	0			0	0						
Tiger Shark	164	50	1.61 (0.34)		3	3.1	0.19 (0.11)		50	47.6	1.61 (0.22)		59	34.5	0.43 (0.06)		0	0						
Non-target species	Total no.	% Total	RELEASED No./Yr (SE)	DEAD No./Yr (SE)	Total no.	% Total	RELEASED No./Yr (SE)	DEAD No./Yr (SE)	Total no.	% Total	RELEASED No./Yr (SE)	DEAD No./Yr (SE)	Total no.	% Total	RELEASED No./Yr (SE)	DEAD No./Yr (SE)	Total no.	% Total	RELEASED No./Yr (SE)	DEAD No./Yr (SE)				
Sharks & Rays																								
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			0	0						
Blacktip Reef Whaler	51	15.5	0.17 (0.09)	2.67 (0.58)	1	1		0.08 (0.08)	17	16.2	1 (0.4)		26	15.2	0.06 (0.06)	1.39 (0.44)	0	0						
Creek Whaler	0	0			0	0			1	1	0.06 (0.06)		3	1.8	0.17 (0.09)		0	0						
Hardnose Whaler	2	0.6		0.11 (0.08)	0	0			1	1	0.06 (0.06)		1	0.6	0.06 (0.06)		0	0						
Milk Shark	0	0			0	0			0	0			1	0.6	0.06 (0.06)		0	0						
Slit Eye Shark	1	0.3		0.06 (0.06)	0	0			0	0			1	0.6	0.06 (0.06)		0	0						
Speartooth Shark	0	0			0	0			1	1	0.06 (0.06)		1	0.6	0.06 (0.06)		0	0						
Spot-Tail Whaler	6	1.8		0.33 (0.18)	0	0			2	1.9	0.12 (0.08)		0	0			0	0						
White-Cheek Shark	1	0.3		0.06 (0.06)	0	0			0	0			1	0.6	0.06 (0.06)		0	0						
Scalloped Hammerhead	18	5.5		1 (0.35)	9	9.3		0.69 (0.33)	4	3.8	0.24 (0.14)		4	2.3	0.22 (0.15)		3	6.7		0.23 (0.12)				
Winged Hammerhead	0	0			1	1		0.08 (0.08)	0	0			2	1.2	0.11 (0.08)		0	0						
Unid. Hammerhead Shark *	1	0.3		0.06 (0.06)	1	1		0.08 (0.08)	0	0			0	0			0	0						
Tawny Shark	19	5.8	1.06 (0.34)		12	12.4	0.38 (0.24)	0.54 (0.14)	4	3.8	0.18 (0.1)	0.06 (0.06)	20	11.7	1 (0.33)	0.11 (0.08)	6	13.3	0.15 (0.1)	0.31 (0.17)				
Zebra Shark	0	0			1	1	0.08 (0.08)		0	0			0	0			0	0						
Manta Ray	0	0			1	1	0.08 (0.08)		0	0			0	0			1	2.2	0.08 (0.08)					
Unidentified Eagle Ray *	0	0			37	38.1	1.69 (0.49)	1.15 (0.25)	0	0			0	0			13	28.9	0.46 (0.18)	0.54 (0.18)				
Cownose Ray	0	0			0	0			0	0			0	0			0	0						
Eastern Shovel-nosed Ray	0	0			1	1	0.08 (0.08)		0	0			0	0			0	0						
Unid. Shovel-nosed Ray *	0	0			2	2.1	0.15 (0.1)		1	1	0.06 (0.06)		0	0			3	6.7	0.08 (0.08)	0.15 (0.1)				
White-Spotted Guitar	0	0			1	1	0.08 (0.08)		0	0			0	0			0	0						
Narrow Sawfish	0	0			13	13.4	0.69 (0.24)	0.31 (0.17)	0	0			0	0			6	13.3	0.23 (0.12)	0.23 (0.12)				
Queensland Sawfish	0	0			0	0			0	0			0	0			1	2.2	0.08 (0.08)					
Unidentified Sawfish	0	0			0	0			0	0			0	0			1	2.2		0.08 (0.08)				
Unidentified Ray	0	0			0	0			0	0			0	0			0	0						
Teleosts																								
Barramundi	0	0			0	0			0	0			0	0			0	0						
Cod	0	0			0	0			0	0			0	0			0	0						
Giant Trevally	0	0			0	0			0	0			0	0			0	0						
Salmon	0	0			1	1	0.08 (0.08)		0	0			0	0			1	2.2		0.08 (0.08)				
Tuna	0	0			1	1	0.08 (0.08)		0	0			0	0			0	0						
Marine Mammals																								
Australian Hb Dolphin	0	0			0	0			0	0			0	0			2	4.4		0.15 (0.1)				
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0						
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0						
Dolphin	0	0			0	0			0	0			0	0			1	2.2	0.08 (0.08)					
Dugong	0	0			0	0			0	0			0	0			0	0						
Marine Turtles																								
Flatback Turtle	0	0			2	2.1		0.15 (0.1)	0	0			0	0			0	0						
Green Turtle	0	0			8	8.2	0.54 (0.18)	0.08 (0.08)	0	0			0	0			3	6.7	0.15 (0.1)	0.08 (0.08)				
Hawksbill Turtle	0	0			1	1	0.08 (0.08)		0	0			0	0			1	2.2	0.08 (0.08)					
Loggerhead Turtle	0	0			0	0			0	0			0	0			1	2.2		0.08 (0.08)				
Other																								
Mud Crab	0	0			0	0			0	0			0	0			1	2.2	0.08 (0.08)					
TOTAL CATCH	328				97				105				171				45							

Table 3-2 Cairns Region SCP catch (2001-2018) (cont.)

TAXA	CLIFTON BEACH								TRINITY BEACH									
	DRUMLINES				NET				DRUMLINES				NET					
Target species	Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	No./unit/yr (SE)	RELEASED	DEAD	Total no.	% Total	No./unit/yr (SE)	RELEASED	DEAD	Total no.	% Total	No./unit/yr (SE)	RELEASED	DEAD
Australian Blacktip	0	0		0	0				0	0				0	0			
Bull Whaler	11	11.3	0.23 (0.08)	1	2.2	0.08 (0.08)			12	7.2	0.17 (0.05)			2	3.8	0.14 (0.1)		
Common Blacktip Whaler	2	2.1	0.04 (0.03)	0	0				3	1.8	0.04 (0.02)			0	0			
Dusky Whaler	1	1	0.02 (0.02)	0	0				1	0.6	0.01 (0.01)			0	0			
Great Hammerhead	3	3.1	0.06 (0.05)	2	4.4	0.15 (0.1)			4	2.4	0.06 (0.03)			1	1.9	0.07 (0.07)		
Long Nose Whaler	1	1	0.02 (0.02)	0	0				0	0				0	0			
Pigeys Whaler	1	1	0.02 (0.02)	0	0				0	0				0	0			
Sandbar Whaler	0	0		0	0				0	0				0	0			
Sharpnose Shark	2	2.1	0.04 (0.03)	0	0				0	0				0	0			
Silky Whaler	0	0		0	0				0	0				0	0			
Tiger Shark	33	34	0.7 (0.14)	0	0				90	54.2	1.3 (0.19)			1	1.9	0.07 (0.07)		
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total
Sharks & Rays									1	0.6		0.06 (0.06)		0	0			
Aust Sharpnose Shark	0	0			0	0			36	21.7		2.12 (0.59)		0	0			
Blacktip Reef Whaler	27	27.8		1.5 (0.41)	0	0			1	0.6		0.06 (0.06)		0	0			
Creek Whaler	3	3.1		0.17 (0.12)	0	0			0	0				0	0			
Hardnose Whaler	1	1		0.06 (0.06)	0	0			1	0.6		0.06 (0.06)		0	0			
Milk Shark	0	0			0	0			2	1.2		0.12 (0.08)		0	0			
Slit Eye Shark	1	1		0.06 (0.06)	0	0			0	0				0	0			
Speartooth Shark	0	0			0	0			3	1.8		0.18 (0.1)		0	0			
Spot-Tail Whaler	0	0			0	0			0	0				0	0			
White-Cheek Shark	0	0			0	0			4	2.4		0.24 (0.14)		4	7.5		0.33 (0.19)	
Scalloped Hammerhead	8	8.2		0.44 (0.17)	3	6.7		0.25 (0.13)	1	0.6		0.06 (0.06)		1	1.9		0.08 (0.08)	
Winged Hammerhead	0	0			0	0			0	0				0	0			
Unid. Hammerhead Shark *	0	0			0	0			6	3.6	0.29 (0.11)	0.06 (0.06)		4	7.5	0.17 (0.11)	0.17 (0.11)	
Tawny Shark	3	3.1	0.17 (0.09)		2	4.4	0.17 (0.11)		0	0				0	0			
Zebra Shark	0	0			2	4.4	0.08 (0.08)	0.08 (0.08)	0	0				0	0			
Manta Ray	0	0			2	4.4	0.17 (0.11)	0.17 (0.11)	0	0				25	47.2	1.33 (0.26)	0.75 (0.22)	
Unidentified Eagle Ray *	0	0			16	35.6	0.83 (0.21)	0.5 (0.19)	0	0				1	1.9	0.08 (0.08)		
Cownose Ray	0	0			0	0			0	0				1	1.9	0.08 (0.08)		
Eastern Shovel-nosed Ray	0	0			0	0			0	0				0	0			
Unid. Shovel-nosed Ray *	0	0			1	2.2	0.08 (0.08)		0	0				0	0			
White-Spotted Guitar	0	0			0	0			0	0				7	13.2	0.33 (0.14)	0.25 (0.25)	
Narrow Sawfish	0	0			4	8.9	0.08 (0.08)	0.25 (0.13)	0	0				0	0			
Queensland Sawfish	0	0			0	0			0	0				1	1.9	0.08 (0.08)		
Unidentified Sawfish	0	0			1	2.2		0.08 (0.08)	0	0				1	1.9	0.08 (0.08)		
Unidentified Ray	0	0			1	2.2		0.08 (0.08)	0	0				0	0			
Teleosts									0	0				0	0			
Barramundi	0	0			1	2.2		0.08 (0.08)	0	0				0	0			
Cod	0	0			0	0			1	0.6		0.06 (0.06)		0	0			
Giant Trevally	0	0			0	0			0	0				0	0			
Salmon	0	0			0	0			0	0				0	0			
Tuna	0	0			0	0			0	0				0	0			
Marine Mammals									0	0				1	1.9		0.08 (0.08)	
Australian Hb Dolphin	0	0			1	2.2		0.08 (0.08)	0	0				0	0			
Australian Shubfin Dolphin	0	0			1	2.2		0.08 (0.08)	0	0				0	0			
Bottlenose Dolphin	0	0			0	0			0	0				0	0			
Dolphin	0	0			0	0			0	0				1	1.9		0.08 (0.08)	
Dugong	0	0			0	0			0	0				0	0			
Marine Turtles									0	0				1	1.9		0.08 (0.08)	
Flatback Turtle	0	0			0	0			0	0				0	0			
Green Turtle	0	0			5	11.1	0.17 (0.11)	0.25 (0.13)	0	0				0	0			
Hawksbill Turtle	0	0			0	0			0	0				1	1.9	0.08 (0.08)		
Loggerhead Turtle	0	0			2	4.4	0.17 (0.11)		0	0				0	0			
Other									0	0				0	0			
Mud Crab	0	0			0	0												
TOTAL CATCH	97				45				166					53				

Table 3-2 Cairns Region SCP catch (2001-2018) (cont.)

TAXA	DRUMLINES				YORKEYS BEACH				NET				HOLLOWAYS BEACH DRUMLINES			
	Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)	
Target species																
Australian Blacktip	0	0			0	0							1	0.7	0.02 (0.02)	
Bull Whaler	11	18.6	0.21 (0.1)		6	5.7	0.38 (0.22)						21	14.3	0.33 (0.08)	
Common Blacktip Whaler	1	1.7	0.02 (0.02)		0	0							1	0.7	0.02 (0.02)	
Dusky Whaler	1	1.7	0.02 (0.02)		0	0							1	0.7	0.02 (0.02)	
Great Hammerhead	4	6.8	0.08 (0.05)		2	1.9	0.13 (0.09)						1	0.7	0.02 (0.02)	
Long Nose Whaler	1	1.7	0.02 (0.02)		0	0							1	0.7	0.02 (0.02)	
Pigeys Whaler	1	1.7	0.02 (0.02)		0	0							3	2	0.05 (0.03)	
Sandbar Whaler	1	1.7	0.02 (0.02)		0	0							0	0		
Sharptooth Shark	1	1.7	0.02 (0.02)		2	1.9	0.13 (0.09)						1	0.7	0.02 (0.02)	
Silky Whaler	0	0			0	0							1	0.7	0.02 (0.02)	
Tiger Shark	17	28.8	0.32 (0.09)		1	0.9	0.06 (0.06)						52	35.4	0.83 (0.13)	
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays																
Aust Sharpnose Shark	0	0			0	0							0	0		
Blacktip Reef Whaler	15	25.4		0.83 (0.27)	0	0							43	29.3		2.53 (0.54)
Creek Whaler	1	1.7		0.06 (0.06)	0	0							2	1.4		0.12 (0.08)
Hardnose Whaler	0	0			0	0							0	0		
Milk Shark	0	0			0	0							0	0		
Slit Eye Shark	0	0			0	0							0	0		
Speartooth Shark	0	0			0	0							0	0		
Spot-Tail Whaler	0	0			0	0							7	4.8		0.41 (0.17)
White-Cheek Shark	0	0			0	0							1	0.7		0.06 (0.06)
Scalloped Hammerhead	3	5.1		0.17 (0.09)	12	11.3		0.92 (0.46)					9	6.1		0.53 (0.19)
Winged Hammerhead	0	0			0	0							0	0		
Unid. Hammerhead Shark *	0	0			0	0							0	0		
Tawny Shark	1	1.7	0.06 (0.06)		6	5.7	0.46 (0.18)						1	0.7	0.06 (0.06)	
Zebra Shark	0	0			0	0							1	0.7	0.06 (0.06)	
Manta Ray	0	0			0	0							0	0		
Unidentified Eagle Ray *	0	0			45	42.5	2.15 (0.54)		1.31 (0.26)				0	0		
Cownose Ray	0	0			0	0							0	0		
Eastern Shovel-nosed Ray	0	0			0	0							0	0		
Unid. Shovel-nosed Ray *	1	1.7	0.06 (0.06)		4	3.8	0.23 (0.12)		0.08 (0.08)				0	0		
White-Spotted Guitar	0	0			0	0							0	0		
Narrow Sawfish	0	0			7	6.6	0.15 (0.1)		0.38 (0.14)				0	0		
Queensland Sawfish	0	0			0	0							0	0		
Unidentified Sawfish	0	0			1	0.9			0.08 (0.08)				0	0		
Unidentified Ray	0	0			0	0							0	0		
Teleosts																
Barramundi	0	0			1	0.9			0.08 (0.08)				0	0		
Cod	0	0			1	0.9	0.08 (0.08)						0	0		
Giant Trevally	0	0			0	0							0	0		
Salmon	0	0			0	0							0	0		
Tuna	0	0			1	0.9			0.08 (0.08)				0	0		
Marine Mammals																
Australian Hb Dolphin	0	0			0	0							0	0		
Australian Snubfin Dolphin	0	0			1	0.9			0.08 (0.08)				0	0		
Bottlenose Dolphin	0	0			2	1.9			0.15 (0.15)				0	0		
Dolphin	0	0			0	0							0	0		
Dugong	0	0			1	0.9			0.08 (0.08)				0	0		
Marine Turtles																
Flatback Turtle	0	0			0	0							0	0		
Green Turtle	0	0			12	11.3	0.69 (0.21)		0.23 (0.17)				0	0		
Hawksbill Turtle	0	0			0	0							0	0		
Loggerhead Turtle	0	0			1	0.9			0.08 (0.08)				0	0		
Other																
Mud Crab	0	0			0	0							0	0		
TOTAL CATCH	59				106								147			

Table 3-3 Townsville Region SCP catch (2001-2018)

TAXA	NELLY BAY DRUMLINES			FLORENCE BAY DRUMLINES				ALMA BAY DRUMLINES				RADICAL BAY DRUMLINES					
Target species	Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)			
Bull Whaler	14	14.9	0.26 (0.08)	51	25	0.31 (0.04)		3	2.6	0.04 (0.02)		68	11.7	0.31 (0.04)			
Common Blacktip Whaler	3	3.2	0.06 (0.03)	3	1.5	0.02 (0.01)		4	3.5	0.05 (0.02)		3	0.5	0.01 (0.01)			
Dusky Whaler	1	1.1	0.02 (0.02)	0	0			0	0			0	0				
Great Hammerhead	3	3.2	0.06 (0.03)	7	3.4	0.04 (0.02)		4	3.5	0.05 (0.02)		22	3.8	0.1 (0.03)			
Grey Reef Whaler	0	0		0	0			1	0.9	0.01 (0.01)		0	0				
Long Nose Whaler	2	2.1	0.04 (0.03)	2	1	0.01 (0.01)		0	0			7	1.2	0.03 (0.01)			
Pigeon Whaler	2	2.1	0.04 (0.03)	5	2.5	0.03 (0.02)		0	0			12	2.1	0.06 (0.02)			
Sandbar Whaler	0	0		0	0			0	0			2	0.3	0.01 (0.01)			
Sharpnose Shark	3	3.2	0.06 (0.03)	3	1.5	0.02 (0.01)		3	2.6	0.04 (0.02)		9	1.5	0.04 (0.01)			
Tiger Shark	16	17	0.3 (0.07)	16	7.8	0.1 (0.03)		10	8.8	0.12 (0.04)		202	34.6	0.94 (0.1)			
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	
Sharks & Rays																	
Blacktip Reef Whaler	1	1.1		0.06 (0.06)	5	2.5		0.28 (0.14)	24	21.1		1.33 (0.34)	17	2.9		0.94 (0.25)	
Creek Whaler	0	0			0	0			2	1.8		0.11 (0.08)	0	0			
Graceful Whaler	1	1.1		0.06 (0.06)	3	1.5		0.17 (0.09)	0	0			3	0.5		0.17 (0.12)	
Milk Shark	0	0			1	0.5		0.06 (0.06)	0	0			6	1		0.33 (0.14)	
Nervous Shark	0	0			0	0			0	0			1	0.2		0.06 (0.06)	
Spot-Tail Whaler	20	21.3		1.11 (0.23)	42	20.6		2.33 (0.38)	8	7		0.44 (0.15)	57	9.8		3.17 (0.73)	
White-Cheek Shark	1	1.1		0.06 (0.06)	4	2		0.22 (0.15)	0	0			1	0.2		0.06 (0.06)	
Unidentified Whaler	0	0			1	0.5		0.06 (0.06)	0	0			0	0			
Scalloped Hammerhead	0	0			0	0			0	0			8	1.4		0.44 (0.15)	
Hammerhead Shark *	0	0			0	0			1	0.9		0.06 (0.06)	0	0			
Tawny Shark	8	8.5		0.44 (0.15)	21	10.3		1.17 (0.25)	33	28.9		1.56 (0.36)	55	9.4		3 (0.49)	
Zebra Shark	0	0			0	0			1	0.9		0.06 (0.06)	2	0.3		0.06 (0.06)	
Unidentified Shark	0	0			0	0			0	0			0	0			
Manta Ray	0	0			1	0.5		0.06 (0.06)	0	0			2	0.3		0.11 (0.08)	
Shark Ray	1	1.1		0.06 (0.06)	0	0			0	0			0	0			
Bull Ray	0	0			0	0			0	0			1	0.2		0.06 (0.06)	
Devilray *	0	0			0	0			0	0			1	0.2		0.06 (0.06)	
Giant Shovelnose Ray	0	0			1	0.5		0.06 (0.06)	0	0			0	0			
Fantail Ray	0	0			0	0			0	0			1	0.2		0.06 (0.06)	
Reticulate Whipray	0	0			1	0.5		0.06 (0.06)	2	1.8		0.11 (0.08)	5	0.9		0.22 (0.1)	
White-Spotted Guitar Fish	4	4.3		0.22 (0.1)	4	2		0.22 (0.13)	0	0			3	0.5		0.06 (0.06)	
White-Spotted Eagle Ray	1	1.1		0.06 (0.06)	0	0			0	0			0	0			
Unidentified Ray	0	0			1	0.5		0.06 (0.06)	3	2.6		0.17 (0.09)	1	0.2		0.06 (0.06)	
Teleosts																	
Barracuda	0	0			0	0			0	0			1	0.2		0.06 (0.06)	
Catfish	7	7.4		0.06 (0.06)	17	8.3		0.11 (0.08)	4	3.5		0.06 (0.06)	0.17 (0.09)	65	11.1		0.5 (0.25)
Cod	0	0			1	0.5		0.06 (0.06)	0	0			2	0.3		0.06 (0.06)	
Giant Trevally	0	0			3	1.5		0.17 (0.12)	0	0			0	0			
Groper , Qld	6	6.4		0.33 (0.14)	4	2		0.22 (0.1)	2	1.8		0.11 (0.08)	23	3.9		1.28 (0.23)	
Queen Fish	0	0			0	0			0	0			0	0			
Unidentified Fish	0	0			0	0			0	0			0	0			
Marine Mammals																	
Australian Snubfin Dolphin	0	0			0	0			0	0			1	0.2		0.06 (0.06)	
Spinner Dolphin	0	0			0	0			0	0			0	0			
Dugong	0	0			0	0			0	0			0	0			
Marine Turtles																	
Green Turtle	0	0			7	3.4		0.22 (0.1)	0.17 (0.09)	8	7		0.44 (0.15)	2	0.3		0.11 (0.08)
Loggerhead Turtle	0	0			0	0			1	0.9		0.06 (0.06)	0	0			
TOTAL CATCH	94				204				114				583				

Table 3-3 Townsville Region SCP catch (2001-2018) (cont.)

TAXA	NELLY BAY DRUMLINES				FLORENCE BAY DRUMLINES				ALMA BAY DRUMLINES				RADICAL BAY DRUMLINES			
	Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)	
Target species																
Bull Whaler	10	4	0.06 (0.02)		56	15.3	0.62 (0.09)		36	13.4	0.33 (0.05)		30	12.1	0.33 (0.06)	
Common Blacktip Whaler	1	0.4	0.01 (0.01)		6	1.6	0.07 (0.03)		3	1.1	0.03 (0.02)		2	0.8	0.02 (0.02)	
Dusky Whaler	0	0			2	0.5	0.02 (0.02)		0	0			0	0		
Great Hammerhead	7	2.8	0.04 (0.02)		5	1.4	0.06 (0.02)		9	3.4	0.08 (0.03)		4	1.6	0.04 (0.02)	
Grey Reef Whaler	1	0.4	0.01 (0.01)		0	0			0	0			0	0		
Long Nose Whaler	6	2.4	0.04 (0.01)		6	1.6	0.07 (0.03)		6	2.2	0.06 (0.02)		3	1.2	0.03 (0.02)	
Pigeon Whaler	3	1.2	0.02 (0.01)		3	0.8	0.03 (0.02)		1	0.4	0.01 (0.01)		7	2.8	0.08 (0.03)	
Sandbar Whaler	1	0.4	0.01 (0.01)		2	0.5	0.02 (0.02)		0	0			1	0.4	0.01 (0.01)	
Sharptooth Shark	5	2	0.03 (0.01)		2	0.5	0.02 (0.02)		3	1.1	0.03 (0.02)		11	4.4	0.12 (0.03)	
Tiger Shark	60	24.1	0.37 (0.05)		172	47.1	1.91 (0.15)		106	39.6	0.98 (0.11)		117	47.2	1.3 (0.13)	
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays																
Blacktip Reef Whaler	32	12.9	0.06 (0.06)	1.72 (0.38)	10	2.7		0.56 (0.18)	26	9.7		1.44 (0.27)	22	8.9		1.22 (0.34)
Creek Whaler	1	0.4		0.06 (0.06)	0	0			0	0			1	0.4		0.06 (0.06)
Graceful Whaler	1	0.4		0.06 (0.06)	1	0.3		0.06 (0.06)	1	0.4		0.06 (0.06)	1	0.4		0.06 (0.06)
Milk Shark	0	0			0	0			0	0			3	1.2		0.17 (0.12)
Nervous Shark	0	0			0	0			0	0			0	0		
Spot-Tail Whaler	47	18.9	0.06 (0.06)	2.56 (0.53)	50	13.7	0.06 (0.06)	2.72 (0.61)	36	13.4		2 (0.48)	17	6.9	0.06 (0.06)	0.89 (0.21)
White-Cheek Shark	4	1.6		0.22 (0.13)	0	0			0	0			0	0		
Unidentified Whaler	0	0			0	0			0	0			0	0		
Scalloped Hammerhead	4	1.6		0.22 (0.13)	7	1.9		0.39 (0.14)	4	1.5		0.22 (0.1)	2	0.8		0.11 (0.08)
Hammerhead Shark *	0	0			0	0			0	0			0	0		
Tawny Shark	39	15.7	2.17 (0.42)		20	5.5	1 (0.21)	0.11 (0.08)	28	10.4	1.5 (0.32)	0.06 (0.06)	20	8.1	1.06 (0.32)	0.06 (0.06)
Zebra Shark	0	0			0	0			0	0			0	0		
Unidentified Shark	1	0.4		0.06 (0.06)	1	0.3		0.06 (0.06)	0	0			0	0		
Manta Ray	1	0.4	0.06 (0.06)		3	0.8	0.17 (0.09)		0	0			2	0.8	0.11 (0.08)	
Shark Ray	1	0.4	0.06 (0.06)		0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0		
Devilray *	1	0.4	0.06 (0.06)		0	0			0	0			0	0		
Giant Shovel-nosed Ray	0	0			0	0			0	0			0	0		
Fantail Ray	0	0			0	0			0	0			0	0		
Reticulate Whipray	2	0.8		0.11 (0.08)	0	0			0	0			0	0		
White-Spotted Guitar Fish	0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0		
Unidentified Ray	1	0.4	0.06 (0.06)		0	0			0	0			0	0		
Teleosts																
Barracuda	0	0			0	0			0	0			0	0		
Catfish	7	2.8	0.06 (0.06)	0.33 (0.16)	16	4.4	0.39 (0.18)	0.5 (0.19)	2	0.7		0.11 (0.11)	2	0.8		0.11 (0.08)
Cod	5	2	0.17 (0.09)	0.11 (0.08)	1	0.3		0.06 (0.06)	0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0		
Groper, Qld	3	1.2	0.17 (0.09)		2	0.5	0.11 (0.08)		1	0.4	0.06 (0.06)		2	0.8	0.06 (0.06)	0.06 (0.06)
Queen Fish	0	0			0	0			1	0.4		0.06 (0.06)	0	0		
Unidentified Fish	0	0			0	0			2	0.7		0.11 (0.08)	0	0		
Marine Mammals																
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0		
Spinner Dolphin	1	0.4		0.06 (0.06)	0	0			0	0			0	0		
Dugong	0	0			0	0			1	0.4	0.06 (0.06)		0	0		
Marine Turtles																
Green Turtle	3	1.2	0.17 (0.09)		0	0			2	0.7	0.11 (0.08)		1	0.4	0.06 (0.06)	
Loggerhead Turtle	1	0.4	0.06 (0.06)		0	0			0	0			0	0		
TOTAL CATCH	249				365				268				248			

Table 3-4 Mackay Region SCP catch (2001-2018)

TAXA	BUCASIA BEACH						EIMEO BEACH						BLACKS BEACH				
	DRUMLINES			NET			DRUMLINES			NET			DRUMLINES				
Target species	Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	No./unit/yr (SE)		
Australian Blacktip	0	0		0	0		0	0		0	0		1	0.7	0.01 (0.01)		
Bull Whaler	10	14.7	0.08 (0.03)	77	21.3	2.33 (0.34)	29	44.6	0.27 (0.06)	22	25	1.47 (0.42)	47	32.2	0.47 (0.09)		
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0			
Long Nose Whaler	1	1.5	0.01 (0.01)	2	0.6	0.06 (0.04)	0	0		0	0		0	0			
Pigeye Whaler	0	0		5	1.4	0.15 (0.08)	1	1.5	0.01 (0.01)	0	0		2	1.4	0.02 (0.01)		
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0			
Sharptooth Shark	1	1.5	0.01 (0.01)	0	0		2	3.1	0.02 (0.01)	0	0		0	0			
Tiger Shark	41	60.3	0.34 (0.07)	34	9.4	1.03 (0.18)	19	29.2	0.18 (0.04)	24	27.3	1.6 (0.42)	81	55.5	0.82 (0.12)		
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	
Sharks & Rays																	
Blacktip Reef Whaler	5	7.4		0.28 (0.14)	20	5.5		1.18 (0.36)	4	6.2		0.22 (0.13)	2	2.3		0.13 (0.09)	
Fossil Shark	0	0			1	0.3		0.06 (0.06)	0	0			1	1.1		0.07 (0.07)	
Spot-Tail Whaler	0	0			0	0			0	0			0	0			
Scalloped Hammerhead	0	0			20	5.5		1.18 (0.26)	3	4.6		0.17 (0.09)	7	8		0.47 (0.17)	
Hammerhead Shark *	0	0			2	0.6	0.06 (0.06)	0.06 (0.06)	0	0			1	1.1		0.07 (0.07)	
Thresher Shark	0	0			0	0			0	0			0	0			
Tawny Shark	3	4.4	0.17 (0.09)		24	6.6	0.88 (0.32)	0.53 (0.24)	3	4.6	0.17 (0.12)		0	0			
Zebra Shark	1	1.5	0.06 (0.06)		11	3	0.53 (0.19)	0.12 (0.08)	0	0			1	1.1	0.07 (0.07)		
Tasselled Wobbegong	1	1.5	0.06 (0.06)		0	0			0	0			0	0			
Manta Ray	0	0			4	1.1	0.24 (0.18)		0	0			4	4.5	0.27 (0.27)		
Eagle Ray *	0	0			1	0.3		0.06 (0.06)	0	0			0	0			
Cownose Ray	0	0			135	37.4	5.18 (1.77)	2.76 (1.34)	0	0			20	22.7	0.87 (0.38)	0.47 (0.34)	
Shovel-nosed Ray *	1	1.5	0.06 (0.06)		5	1.4	0.18 (0.1)	0.12 (0.08)	3	4.6	0.17 (0.09)		4	4.5	0.13 (0.09)	0.13 (0.09)	
Bull Ray	0	0			0	0			0	0			0	0			
Green Sawfish	0	0			1	0.3	0.06 (0.06)		0	0			0	0			
Sawfish (Ray)	0	0			2	0.6	0.12 (0.08)		0	0			0	0			
Ray	2	2.9	0.11 (0.08)		1	0.3	0.06 (0.06)		1	1.5	0.06 (0.06)		0	0			
Teleosts																	
Groper, Qld	2	2.9	0.06 (0.06)	0.06 (0.06)	1	0.3	0.06 (0.06)		0	0			0	0			
Marine Mammals																	
Australian Hb Dolphin	0	0			2	0.6		0.12 (0.08)	0	0			0	0			
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			
Bottlenose Dolphin	0	0			2	0.6		0.12 (0.12)	0	0			0	0			
Dugong	0	0			1	0.3		0.06 (0.06)	0	0			1	1.1		0.07 (0.07)	
Marine Turtles																	
Flatback Turtle	0	0			1	0.3	0.06 (0.06)		0	0			0	0			
Green Turtle	0	0			4	1.1	0.12 (0.06)	0.12 (0.08)	0	0			0	0			
Loggerhead Turtle	0	0			3	0.8	0.18 (0.13)		0	0			1	1.1	0.07 (0.07)		
Other																	
Crocodile	0	0			2	0.6		0.12 (0.08)	0	0			0	0			
TOTAL CATCH	68				361				65				88				146

Table 3-4 Mackay Region SCP catch (2001-2018) (cont.)

TAXA	BLACKS BEACH NET			LAMBERTS BEACH DRUMLINES				STH LAMBERTS BEACH DRUMLINES				HARBOUR BEACH DRUMLINES				NET				
	Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	
Target species																				
Australian Blacktip	0	0		0	0			0	0			0	0			0	0			
Bull Whaler	9	29	0.5 (0.2)	36	11.6	0.31 (0.07)		2	22.2	0.17 (0.11)		19	10.3	0.15 (0.03)		32	12.5	0.89 (0.22)		
Grey Reef Whaler	0	0		1	0.3	0.01 (0.01)		0	0			0	0			2	0.8	0.06 (0.04)		
Long Nose Whaler	0	0		2	0.6	0.02 (0.01)		0	0			0	0			2	0.8	0.06 (0.04)		
Pigeys Whaler	0	0		2	0.6	0.02 (0.01)		0	0			1	0.5	0.01 (0.01)		2	0.8	0.06 (0.04)		
Sandbar Whaler	0	0		3	1	0.03 (0.02)		0	0			0	0			0	0			
Sharptooth Shark	0	0		2	0.6	0.02 (0.01)		0	0			1	0.5	0.01 (0.01)		0	0			
Tiger Shark	21	67.7	1.17 (0.39)	236	75.9	2 (0.22)		5	55.6	0.42 (0.19)		142	76.8	1.36 (0.11)		103	40.1	2.86 (0.41)		
Non-target species			RELEASED No./yr (SE)	DEAD No./yr (SE)														RELEASED No./yr (SE)	DEAD No./yr (SE)	
Sharks & Rays																				
Blacktip Reef Whaler	0	0			3	1	0.17 (0.09)		1	11.1	0.5 (0.5)		4	2.2	0.22 (0.1)	14	5.4	0.78 (0.22)		
Fossil Shark	0	0			0	0			0	0			0	0		0	0			
Spot-Tail Whaler	0	0			0	0			0	0			0	0		0	0			
Scalloped Hammerhead	0	0			4	1.3	0.22 (0.13)		0	0			2	1.1	0.11 (0.11)	18	7	0.06 (0.06)	0.94 (0.3)	
Hammerhead Shark *	0	0			1	0.3	0.06 (0.06)		0	0			0	0		1	0.4	0.06 (0.06)		
Thresher Shark	0	0			1	0.3	0.06 (0.06)		0	0			0	0		0	0			
Tawny Shark	1	3.2	0.06 (0.06)		18	5.8	0.94 (0.35)	0.06 (0.06)	1	11.1	0.5 (0.5)		14	7.6	0.61 (0.18)	0.17 (0.12)	17	6.6	0.61 (0.23)	0.33 (0.18)
Zebra Shark	0	0			0	0			0	0			0	0		1	0.4	0.06 (0.06)		
Tasselled Wobbegong	0	0			0	0			0	0			0	0		0	0			
Manta Ray	0	0			0	0			0	0			0	0		12	4.7	0.39 (0.23)	0.28 (0.14)	
Eagle Ray *	0	0			0	0			0	0			0	0		2	0.8	0.11 (0.08)		
Cownose Ray	0	0			0	0			0	0			0	0		21	8.2	0.72 (0.24)	0.44 (0.18)	
Shovel nosed Ray *	0	0			0	0			0	0			2	1.1	0.11 (0.08)	3	1.2	0.17 (0.09)		
Bull Ray	0	0			0	0			0	0			0	0		2	0.8	0.06 (0.06)	0.06 (0.06)	
Green Sawfish	0	0			0	0			0	0			0	0		0	0			
Sawfish (Ray)	0	0			0	0			0	0			0	0		1	0.4	0.06 (0.06)		
Ray	0	0			0	0			0	0			0	0		0	0			
Teleosts																				
Groper, Qld	0	0			1	0.3	0.06 (0.06)		0	0			0	0		0	0			
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0			0	0		1	0.4	0.06 (0.06)		
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0		1	0.4	0.06 (0.06)		
Bottlenose Dolphin	0	0			0	0			0	0			0	0		0	0			
Dugong	0	0			0	0			0	0			0	0		4	1.6	0.22 (0.1)		
Marine Turtles																				
Flatback Turtle	0	0			0	0			0	0			0	0		2	0.8	0.11 (0.08)	0.11 (0.08)	
Green Turtle	0	0			0	0			0	0			0	0		8	3.1	0.06 (0.06)	0.39 (0.33)	
Loggerhead Turtle	0	0			1	0.3	0.06 (0.06)		0	0			0	0		5	1.9	0.11 (0.08)	0.17 (0.12)	
Other																				
Crocodile	0	0			0	0			0	0			0	0		3	1.2	0.17 (0.09)		
TOTAL CATCH	31				311				9				185			257				

Table 3-5 Capricorn Coast Region SCP catch (2001-2018)

TAXA	FARNBOROUGH BEACH				YEPPON BEACH				COOEE BEACH				LAMMERMOOR BEACH				KEMP BEACH			
	DRUMLINES				DRUMLINES				DRUMLINES				DRUMLINES				DRUMLINES			
Target species	Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)	
Australian Blacktip	0	0			0	0			0	0	0 (0)		0	0			1	1.2	0.01 (0.01)	
Bull Whaler	53	28.8	0.59 (0.08)		22	32.4	0.24 (0.06)		31	36.9	0.29 (0.06)		46	30.3	0.26 (0.04)		31	36.9	0.29 (0.05)	
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	1	0.5	0.01 (0.01)		1	1.5	0.01 (0.01)		1	1.2	0.01 (0.01)		2	1.3	0.01 (0.01)		1	1.2	0.01 (0.01)	
Great Hammerhead	1	0.5	0.01 (0.01)		1	1.5	0.01 (0.01)		2	2.4	0.02 (0.01)		3	2	0.02 (0.01)		2	2.4	0.02 (0.01)	
Long Nose Whaler	11	6	0.12 (0.05)		5	7.4	0.06 (0.03)		6	7.1	0.06 (0.02)		10	6.6	0.06 (0.02)		4	4.8	0.04 (0.02)	
Pigeys Whaler	4	2.2	0.04 (0.02)		1	1.5	0.01 (0.01)		3	3.6	0.03 (0.02)		1	0.7	0.01 (0.01)		1	1.2	0.01 (0.01)	
Sandbar Whaler	0	0			0	0			1	1.2	0.01 (0.01)		1	0.7	0.01 (0.01)		1	1.2	0.01 (0.01)	
Sharpnose Shark	0	0			0	0			0	0			0	0			1	1.2	0.01 (0.01)	
Silky Whaler	2	1.1	0.02 (0.02)		0	0			0	0			0	0			0	0		
Tiger Shark	46	25	0.51 (0.09)		15	22.1	0.17 (0.05)		15	17.9	0.14 (0.04)		37	24.3	0.21 (0.04)		27	32.1	0.25 (0.05)	
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			0	0			0	0			1	0.7		0.06 (0.06)	0	0		
Blacktip Reef Whaler	22	12		1.22 (0.42)	5	7.4		0.28 (0.11)	11	13.1		0.61 (0.29)	16	10.5		0.89 (0.24)	7	8.3		0.39 (0.14)
Creek Whaler	1	0.5		0.06 (0.06)	0	0			0	0			0	0			0	0		
Graceful Whaler	2	1.1		0.11 (0.11)	0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			3	2		0.17 (0.17)	0	0		
Milk Shark	7	3.8		0.39 (0.18)	1	1.5		0.06 (0.06)	5	6		0.28 (0.14)	3	2		0.17 (0.09)	0	0		
Slit Eye Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	11	6		0.61 (0.26)	2	2.9		0.11 (0.11)	1	1.2		0.06 (0.06)	2	1.3		0.11 (0.08)	1	1.2		0.06 (0.06)
White-Cheek Shark	1	0.5		0.06 (0.06)	1	1.5		0.06 (0.06)	0	0			3	2		0.17 (0.17)	0	0		
Scalloped Hammerhead	0	0			0	0			1	1.2		0.06 (0.06)	1	0.7		0.06 (0.06)	0	0		
Winged Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	4	2.2		0.22 (0.13)	2	2.9		0.11 (0.08)	2	2.4		0.11 (0.08)	6	3.9		0.33 (0.16)	0	0		
Tawny Shark	1	0.5	0.06 (0.06)		3	4.4	0.17 (0.12)		0	0			0	0			0	0		
Grey Carpet Shark	1	0.5	0.06 (0.06)		0	0			0	0			0	0			0	0		
Unknown Shark	1	0.5		0.06 (0.06)	0	0			0	0			0	0			0	0		
Giant Shovelnosed R	0	0			0	0			0	0			1	0.7		0.06 (0.06)	0	0		
Shovelnosed Ray *	2	1.1	0.06 (0.06)	0.06 (0.06)	0	0			0	0			2	1.3		0.11 (0.08)	1	1.2		0.06 (0.06)
Eagle Ray *	0	0			2	2.9	0.06 (0.06)	0.06 (0.06)	0	0			0	0			0	0		
Reticulate Whipray	1	0.5		0.06 (0.06)	0	0			0	0			4	2.6	0.17 (0.09)	0.06 (0.06)	2	2.4		0.11 (0.11)
Ray	5	2.7	0.11 (0.08)	0.17 (0.12)	4	5.9	0.06 (0.06)	0.17 (0.12)	0	0			4	2.6	0.17 (0.09)	0.06 (0.06)	1	1.2		0.06 (0.06)
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Catfish	0	0			0	0			1	1.2		0.06 (0.06)	1	0.7		0.06 (0.06)	0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Groper , Qld	0	0			0	0			0	0			1	0.7	0.06 (0.06)		0	0		
Jewfish	0	0			2	2.9		0.11 (0.11)	0	0			1	0.7		0.06 (0.06)	0	0		
Toadfish	4	2.2	0.11 (0.11)	0.11 (0.08)	0	0			1	1.2		0.06 (0.06)	0	0			2	2.4		0.11 (0.11)
Marine Mammals																				
Australian Hb Dolphin	1	0.5	0.06 (0.06)		0	0			0	0			1	0.7	0.06 (0.06)		0	0		
Dolphin	0	0			1	1.5	0.06 (0.06)		0	0			1	0.7	0.06 (0.06)		0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			1	1.2	0.06 (0.06)		1	0.7		0.06 (0.06)	0	0		
Loggerhead Turtle	2	1.1	0.11 (0.11)		0	0			1	1.2	0.06 (0.06)		0	0			1	1.2	0.06 (0.06)	
Turtle	0	0			0	0			1	1.2		0.06 (0.06)	0	0			0	0		
TOTAL CATCH	184				68				84				152				84			

Table 3-5

Capricorn Coast Region SCP catch (2001-2018) (cont.)

TAXA	MULLAMBIN BEACH DRUMLINES				TANBY BEACH DRUMLINES				FISHERMANS BEACH DRUMLINES				EMU BEACH DRUMLINES			
	Total no.	% Total	No./unit/yr (SE)	DEAD No./yr (SE)	Total no.	% Total	No./unit/yr (SE)	DEAD No./yr (SE)	Total no.	% Total	No./unit/yr (SE)	DEAD No./yr (SE)	Total no.	% Total	No./unit/yr (SE)	DEAD No./yr (SE)
Target species																
Australian Blacktip	0	0			1	0.4	0.01 (0.01)		0	0			1	0.5	0.01 (0.01)	
Bull Whaler	63	38.9	0.7 (0.11)		90	40.4	1 (0.1)		64	48.5	0.6 (0.08)		110	50.2	0.87 (0.1)	
Common Blacktip Whaler	0	0			0	0			0	0			2	0.9	0.02 (0.01)	
Dusky Whaler	0	0			1	0.4	0.01 (0.01)		0	0			0	0		
Great Hammerhead	2	1.2	0.02 (0.02)		2	0.9	0.02 (0.02)		2	1.5	0.02 (0.01)		0	0		
Long Nose Whaler	5	3.1	0.06 (0.03)		3	1.3	0.03 (0.02)		5	3.8	0.05 (0.02)		12	5.5	0.1 (0.03)	
Pigeye Whaler	0	0			2	0.9	0.02 (0.02)		4	3	0.04 (0.02)		6	2.7	0.05 (0.02)	
Sandbar Whaler	1	0.6	0.01 (0.01)		1	0.4	0.01 (0.01)		0	0			1	0.5	0.01 (0.01)	
Sharptooth Shark	1	0.6	0.01 (0.01)		0	0			0	0			1	0.5	0.01 (0.01)	
Silky Whaler	0	0			0	0			0	0			0	0		
Tiger Shark	48	29.6	0.53 (0.08)		62	27.8	0.69 (0.09)		28	21.2	0.26 (0.05)		38	17.4	0.3 (0.05)	
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays																
Aust Sharpnose Shark	1	0.6		0.06 (0.06)	2	0.9		0.11 (0.08)	0	0			2	0.9		0.11 (0.11)
Blacktip Reef Whaler	19	11.7		1.06 (0.43)	20	9		1.11 (0.44)	6	4.5		0.33 (0.14)	10	4.6		0.56 (0.28)
Creek Whaler	0	0			0	0			0	0			1	0.5		0.06 (0.06)
Graceful Whaler	1	0.6		0.06 (0.06)	2	0.9		0.11 (0.08)	0	0			1	0.5		0.06 (0.06)
Hardnose Whaler	0	0			0	0			0	0			1	0.5		0.06 (0.06)
Milk Shark	3	1.9		0.17 (0.09)	4	1.8		0.22 (0.17)	2	1.5		0.11 (0.08)	7	3.2		0.39 (0.18)
Slit Eye Shark	0	0			0	0			0	0			1	0.5		0.06 (0.06)
Spot-Tail Whaler	5	3.1		0.28 (0.14)	21	9.4		1.17 (0.37)	6	4.5		0.33 (0.18)	16	7.3		0.89 (0.23)
White-Cheek Shark	1	0.6		0.06 (0.06)	2	0.9		0.11 (0.11)	0	0			0	0		
Scalloped Hammerhead	0	0			0	0			1	0.8		0.06 (0.06)	0	0		
Winged Hammerhead	1	0.6		0.06 (0.06)	0	0			0	0			1	0.5		0.06 (0.06)
Hammerhead Shark *	4	2.5		0.22 (0.17)	7	3.1		0.39 (0.18)	6	4.5		0.33 (0.14)	1	0.5		0.06 (0.06)
Tawny Shark	3	1.9	0.17 (0.12)		2	0.9	0.06 (0.06)	0.06 (0.06)	3	2.3	0.17 (0.09)		3	1.4	0.17 (0.09)	
Grey Carpet Shark	0	0			0	0			0	0			0	0		
Unknown Shark	2	1.2	0.06 (0.06)	0.06 (0.06)	0	0			0	0			1	0.5	0.06 (0.06)	
Giant Shovelnosed R	0	0			0	0			0	0			0	0		
Shovelnosed Ray *	0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			0	0			0	0		
Ray	1	0.6		0.06 (0.06)	0	0			0	0			0	0		
Teleosts																
Black Kingfish Cobia	0	0			1	0.4		0.06 (0.06)	0	0			0	0		
Catfish	0	0			0	0			0	0			1	0.5		0.06 (0.06)
Cod	0	0			0	0			0	0			0	0		
Groper , Qld	0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			1	0.8		0.06 (0.06)	0	0		
Toadfish	1	0.6		0.06 (0.06)	0	0			0	0			0	0		
Marine Mammals																
Australian Hb Dolphin	0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0		
Marine Turtles																
Green Turtle	0	0			0	0			3	2.3	0.11 (0.08)	0.06 (0.06)	1	0.5	0.06 (0.06)	
Loggerhead Turtle	0	0			0	0			1	0.8	0.06 (0.06)		1	0.5	0.06 (0.06)	
Turtle	0	0			0	0			0	0			0	0		
TOTAL CATCH	162				223				132				219			

Table 3-6

Tannum Sands Region SCP catch (2001-2018)

TAXA	TANNUM SANDS BEACH			
	DRUMLINES			
Target species	Total no.	% Total	No./unit/yr (SE)	
Australian Blacktip	15	1.7	0.06 (0.02)	
Bull Whaler	109	12.1	0.42 (0.05)	
Common Blacktip Wha	111	12.3	0.43 (0.06)	
Dusky Whaler	7	0.8	0.03 (0.01)	
Long Nose Whaler	5	0.6	0.02 (0.01)	
Pigeye Whaler	1	0.1	< 0.01	
Sandbar Whaler	21	2.3	0.08 (0.02)	
Sharptooth Shark	6	0.7	0.02 (0.01)	
Tiger Shark	168	18.7	0.65 (0.06)	
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays				
Aust Sharpnose Shark	1	0.1		0.06 (0.06)
Blacktip Reef Whaler	407	45.2	0.22 (0.13)	22.39 (3.6)
Creek Whaler	1	0.1		0.06 (0.06)
Graceful Whaler	1	0.1		0.06 (0.06)
Hardnose Whaler	1	0.1		0.06 (0.06)
Milk Shark	1	0.1		0.06 (0.06)
Spot-Tail Whaler	3	0.3		0.17 (0.17)
Unidentified Whaler	1	0.1		0.06 (0.06)
Scalloped Hammerhead	6	0.7		0.33 (0.14)
Hammerhead Shark *	6	0.7		0.33 (0.18)
Tawny Shark	3	0.3	0.17 (0.09)	
Wobbegong *	2	0.2	0.06 (0.06)	0.06 (0.06)
Unidentified Shark	1	0.1		0.06 (0.06)
Shovel nosed Ray *	2	0.2	0.06 (0.06)	0.06 (0.06)
Teleosts				
Cod	1	0.1	0.06 (0.06)	
Groper, Qld	2	0.2	0.11 (0.08)	
Marine Turtles				
Green Turtle	14	1.6	0.78 (0.42)	
Loggerhead Turtle	4	0.4	0.22 (0.13)	
TOTAL CATCH	900			

Table 3-7 Woongarra Region SCP catch (2001-2018)

TAXA	OAKS BEACH DRUMLINES				NEILSON PARK BEACH DRUMLINES				BARGARA BEACH DRUMLINES				KELLYS BEACH DRUMLINES			
Target species	Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)	
Australian Blacktip	0	0			0	0			0	0			0	0		
Bull Whaler	1	2.1	0.03 (0.03)		17	5.5	0.16 (0.04)		1	1.4	0.02 (0.02)		18	3.6	0.11 (0.03)	
Common Blacktip Wha	0	0			0	0			0	0			1	0.2	0.01 (0.01)	
Dusky Whaler	0	0			4	1.3	0.04 (0.02)		0	0			0	0		
Long Nose Whaler	0	0			2	0.6	0.02 (0.01)		0	0			6	1.2	0.04 (0.01)	
Pigeye Whaler	4	8.5	0.11 (0.07)		20	6.5	0.19 (0.04)		5	7.2	0.09 (0.05)		43	8.7	0.27 (0.04)	
Sandbar Whaler	5	10.6	0.14 (0.09)		25	8.1	0.23 (0.05)		12	17.4	0.22 (0.08)		30	6	0.19 (0.04)	
Sharptooth Shark	2	4.3	0.06 (0.04)		6	1.9	0.06 (0.02)		1	1.4	0.02 (0.02)		13	2.6	0.08 (0.03)	
Tiger Shark	10	21.3	0.28 (0.1)		149	48.2	1.38 (0.14)		21	30.4	0.39 (0.09)		305	61.5	1.88 (0.13)	
White Shark	0	0			3	1	0.03 (0.02)		0	0			4	0.8	0.02 (0.01)	
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays																
Blacktip Reef Whaler	2	4.3	0.06 (0.06)		11	3.6		0.67 (0.29)	4	5.8		0.17 (0.09)	16	3.2		0.83 (0.38)
Spot-Tail Whaler	0	0			4	1.3		0.22 (0.1)	1	1.4		0.06 (0.06)	1	0.2		0.06 (0.06)
Whaler	1	2.1			3	1	0.06 (0.06)	0.06 (0.06)	1	1.4			3	0.6		0.17 (0.09)
Scalloped Hammerhead	0	0		0.06 (0.06)	7	2.3		0.39 (0.16)	1	1.4		0.06 (0.06)	4	0.8	0.06 (0.06)	0.28 (0.14)
Hammerhead Shark *	0	0			0	0			0	0			0	0		
Tawny Shark	1	2.1		0.06 (0.06)	5	1.6	0.28 (0.14)		1	1.4	0.11 (0.08)		10	2	0.5 (0.17)	0.06 (0.06)
Zebra Shark	0	0			0	0			0	0			1	0.2		0.06 (0.06)
Unknown Shark	1	2.1			3	1		0.28 (0.14)	1	1.4			14	2.8		0.83 (0.33)
Manta Ray	2	4.3		0.11 (0.08)	7	2.3	0.28 (0.11)	0.11 (0.11)	1	1.4	0.06 (0.06)		6	1.2	0.33 (0.14)	
Shark Ray	0	0			1	0.3		0.06 (0.06)	0	0			0	0		
White-Spotted Guitar	1	2.1			3	1	0.06 (0.06)	0.06 (0.06)	1	1.4		0.06 (0.06)	1	0.2		
Teleosts																
Catfish	0	0			2	0.6		0.17 (0.09)	1	1.4		0.11 (0.11)	0	0		
Groper , Qld	0	0			0	0			2	2.9	0.11 (0.08)		1	0.2	0.06 (0.06)	
Snapper	0	0			2	0.6		0.11 (0.08)	6	8.7	0.06 (0.06)	0.33 (0.16)	2	0.4		0.11 (0.08)
Toadfish	2	4.3	0.06 (0.06)	0.17 (0.17)	5	1.6		0.28 (0.16)	1	1.4		0.06 (0.06)	1	0.2		0.06 (0.06)
Marine Turtles																
Green Turtle	11	23.4	0.39 (0.16)	0.5 (0.19)	13	4.2	0.89 (0.42)		1	1.4	0.06 (0.06)		5	1	0.33 (0.18)	
Loggerhead Turtle	4	8.5	0.11 (0.08)	0.22 (0.13)	16	5.2	1 (0.33)		7	10.1	0.44 (0.2)		10	2	0.56 (0.33)	
Unidentified Turtle	0	0	0.06 (0.06)		1	0.3	0.06 (0.06)		0	0			1	0.2	0.06 (0.06)	
TOTAL CATCH	47				309				69				496			

Table 3-8 Rainbow Beach Region SCP catch (2001-2018)

TAXA	RAINBOW BEACH							
	DRUMLINES				NET			
Target species	Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)	
Bull Whaler	36	6.5	0.17 (0.03)		53	7.5	0.98 (0.17)	
Common Blacktip Whaler	4	0.7	0.02 (0.01)		0	0		
Dusky Whaler	20	3.6	0.09 (0.02)		43	6.1	0.8 (0.13)	
Great Hammerhead	1	0.2	<0.01		49	6.9	0.91 (0.15)	
Grey Reef Whaler	1	0.2	<0.01		0	0		
Long Nose Whaler	6	1.1	0.03 (0.01)		156	22.1	2.89 (0.36)	
Mako	0	0			6	0.8	0.11 (0.04)	
Pigeon Whaler	5	0.9	0.02 (0.02)		5	0.7	0.09 (0.04)	
Sandbar Whaler	2	0.4	0.01 (0.01)		4	0.6	0.07 (0.04)	
Sharptooth Shark	1	0.2	<0.01		6	0.8	0.11 (0.04)	
Silky Whaler	2	0.4	0.01 (0.01)		0	0		
Silver Tip Whaler	1	0.2	<0.01		0	0		
Tiger Shark	276	49.6	1.28 (0.1)		20	2.8	0.37 (0.08)	
White Shark	6	1.1	0.03 (0.01)		3	0.4	0.06 (0.03)	
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays								
Blacktip Reef Whaler	7	1.3	0.11 (0.08)	0.28 (0.14)	38	5.4	0.06 (0.06)	2.06 (0.57)
Graceful Whaler	0	0			1	0.1		0.06 (0.06)
Hardnose Whaler	0	0			1	0.1		0.06 (0.06)
Unidentified Whaler	2	0.4		0.11 (0.08)	0	0		
Scalloped Hammerhead	1	0.2		0.06 (0.06)	41	5.8	0.06 (0.06)	2.22 (0.55)
Unidentified Hammerhead Shark *	0	0			14	2		0.78 (0.29)
Grey Nurse Shark	1	0.2		0.06 (0.06)	8	1.1	0.17 (0.09)	0.28 (0.14)
Zebra Shark	0	0			9	1.3	0.33 (0.14)	0.17 (0.12)
Unidentified Wobbegong *	1	0.2	0.06 (0.06)		0	0		
Unidentified Shark	2	0.4		0.11 (0.11)	1	0.1		0.06 (0.06)
Manta Ray	1	0.2	0.06 (0.06)		15	2.1	0.67 (0.23)	0.17 (0.12)
Devilray *	0	0			14	2	0.5 (0.29)	0.28 (0.14)
Cownose Ray	0	0			14	2	0.28 (0.14)	0.5 (0.34)
Eagle Ray *	0	0			13	1.8	0.39 (0.16)	0.33 (0.16)
Shovelnosed Ray *	0	0			4	0.6	0.17 (0.12)	0.06 (0.06)
White-Spotted Guitar Fish	0	0			1	0.1		0.06 (0.06)
Bull Ray	0	0			4	0.6	0.17 (0.09)	0.06 (0.06)
Stingaree	0	0			2	0.3	0.06 (0.06)	0.06 (0.06)
Unidentified Ray	0	0			1	0.1		0.06 (0.06)
Teleosts								
Groper , Old	1	0.2	0.06 (0.06)		0	0		
Mackerel	0	0			1	0.1		0.06 (0.06)
Marlin	0	0			6	0.8		0.33 (0.14)
Queen Fish	0	0			1	0.1		0.06 (0.06)
Snapper	1	0.2		0.06 (0.06)	1	0.1		0.06 (0.06)
Tuna	0	0			89	12.6	0.06 (0.06)	4.89 (0.95)
Wahoo	0	0			2	0.3		0.11 (0.08)
Marine Mammals								
Humpback Whale	0	0			7	1	0.39 (0.14)	
Australian Hb Dolphin	0	0			11	1.6	0.06 (0.06)	0.56 (0.35)
Bottlenose Dolphin	5	0.9	0.28 (0.16)		5	0.7		0.28 (0.14)
Common Dolphin	1	0.2		0.06 (0.06)	17	2.4		0.94 (0.25)
Unidentified Dolphin	0	0			3	0.4		0.17 (0.09)
Dugong	0	0			4	0.6		0.22 (0.1)
Marine Turtles								
Green Turtle	2	0.4	0.11 (0.11)		6	0.8	0.28 (0.11)	0.06 (0.06)
Leatherback Turtle	3	0.5	0.17 (0.09)		1	0.1	0.06 (0.06)	
Loggerhead Turtle	168	30.2	9.11 (2.37)	0.22 (0.13)	25	3.5	1.28 (0.37)	0.11 (0.08)
Unidentified Turtle	0	0			1	0.1	0.06 (0.06)	
TOTAL CATCH	557				706			

Table 3-9 Sunshine Coast Region SCP catch (2001-2018)

TAXA	NOOSA BEACH				SUNSHINE BEACH				SUNRISE BEACH				
	DRUMLINES			NET			DRUMLINES			DRUMLINES			
Target species	Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	No./unit/yr (SE)
Big Nose Whaler	0	0		0	0			0	0		0	0	
Bull Whaler	4	4.2	0.07 (0.04)	46	9.5	1.28 (0.23)		2	6.3	0.04 (0.03)	3	12.5	0.06 (0.03)
Dusky Whaler	2	2.1	0.04 (0.03)	6	1.2	0.17 (0.07)		3	9.4	0.06 (0.03)	1	4.2	0.02 (0.02)
Great Hammerhead	0	0		49	10.1	1.36 (0.34)		0	0		0	0	
Grey Reef Whaler	0	0		10	2.1	0.28 (0.11)		0	0		0	0	
Long Nose Whaler	5	5.3	0.09 (0.04)	123	25.5	3.42 (0.59)		1	3.1	0.02 (0.02)	0	0	
Mako	2	2.1	0.04 (0.03)	0	0			1	3.1	0.02 (0.02)	1	4.2	0.02 (0.02)
Pigeye Whaler	0	0		3	0.6	0.08 (0.05)		0	0		1	4.2	0.02 (0.02)
Sandbar Whaler	1	1.1	0.02 (0.02)	2	0.4	0.06 (0.04)		0	0		0	0	
Sharptooth Shark	0	0		0	0			0	0		0	0	
Silky Whaler	2	2.1	0.04 (0.03)	2	0.4	0.06 (0.06)		0	0		1	4.2	0.02 (0.02)
Tiger Shark	74	77.9	1.37 (0.17)	6	1.2	0.17 (0.06)		22	68.8	0.41 (0.09)	16	66.7	0.3 (0.07)
White Shark	2	2.1	0.04 (0.03)	0	0			1	3.1	0.02 (0.02)	0	0	
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays													
Blacktip Reef Whaler	0	0		0	0				0	0		0	0
Fossil Shark	0	0		0	0				0	0		0	0
Hardnose Whaler	0	0		1	0.2		0.06 (0.06)		0	0		0	0
Weasel Shark	0	0		3	0.6		0.17 (0.12)		0	0		0	0
Whaler	0	0		0	0				0	0		0	0
Scalloped Hammerhead	0	0		11	2.3	0.06 (0.06)	0.56 (0.32)		0	0		0	0
Hammerhead Shark *	0	0		33	6.8		1.83 (0.56)		0	0		0	0
Whale Shark	0	0		1	0.2		0.06 (0.06)		0	0		0	0
Grey Nurse Shark	0	0		3	0.6	0.11 (0.08)	0.06 (0.06)		1	3.1	0.06 (0.06)	0	0
Tawny Shark	0	0		0	0				0	0		0	0
Zebra Shark	0	0		4	0.8	0.22 (0.13)			0	0		0	0
Port Jackson Shark	0	0		1	0.2	0.06 (0.06)			0	0		0	0
Unknown Shark	0	0		1	0.2		0.06 (0.06)		0	0		0	0
Manta Ray	1	1.1	0.06 (0.06)	35	7.2	0.44 (0.25)	1.5 (0.54)		0	0		0	0
Devilray *	0	0		21	4.3	0.11 (0.08)	1.06 (0.42)		0	0		0	0
Cownose Ray	0	0		7	1.4	0.33 (0.2)	0.06 (0.06)		0	0		0	0
Eagle Ray *	0	0		19	3.9	0.78 (0.27)	0.28 (0.14)		0	0		0	0
White-Spotted Eagle Ray	0	0		1	0.2	0.06 (0.06)			0	0		0	0
Shark Ray	0	0		0	0				0	0		0	0
White-Spotted Guitar	0	0		1	0.2	0.06 (0.06)			0	0		0	0
Shovelnosed Ray *	0	0		14	2.9	0.5 (0.19)	0.28 (0.11)		0	0		0	0
Bull Ray	0	0		1	0.2	0.06 (0.06)			0	0		0	0
Ray	0	0		18	3.7	0.44 (0.28)	0.56 (0.28)		0	0		0	0
Teleosts													
Black Kingfish Cobia	0	0		1	0.2	0.06 (0.06)			0	0		0	0
Bonita	0	0		0	0				0	0		0	0
Cod	0	0		0	0				0	0		0	0
Giant Trevally	0	0		1	0.2		0.06 (0.06)		0	0		0	0
Jewfish	0	0		0	0				0	0		0	0
Mackeral	0	0		0	0				0	0		0	0
Queen Fish	0	0		0	0				0	0		0	0
Salmon	0	0		0	0				0	0		0	0
Snapper	0	0		0	0				0	0		0	0
Sweetlip	0	0		0	0				0	0		0	0
Tuna	1	1.1	0.06 (0.06)	19	3.9	0.17 (0.12)	0.89 (0.24)		0	0		0	0
Marine Mammals													
Humpback Whale	0	0		2	0.4	0.11 (0.08)			0	0		0	0
Australian Hb Dolphin	0	0		1	0.2		0.06 (0.06)		0	0		0	0
Bottlenose Dolphin	0	0		6	1.2		0.33 (0.14)		1	3.1	0.06 (0.06)	0	0
Common Dolphin	0	0		17	3.5	0.06 (0.06)	0.89 (0.2)		0	0		0	0
Spinner Dolphin	0	0		2	0.4		0.11 (0.08)		0	0		0	0
Dolphin	0	0		2	0.4		0.11 (0.08)		0	0		0	0
Dugong	0	0		2	0.4		0.11 (0.08)		0	0		0	0
Marine Turtles													
Green Turtle	0	0		2	0.4	0.11 (0.11)			0	0		0	0
Hawksbill Turtle	0	0		1	0.2	0.06 (0.06)			0	0		0	0
Leatherback Turtle	0	0		0	0				0	0		0	0
Loggerhead Turtle	1	1.1	0.06 (0.06)	3	0.6	0.17 (0.09)			0	0	1	4.2	0.06 (0.06)
Unidentified Turtle	0	0		0	0				0	0		0	0
Birds													
Unidentified Bird	0	0		2	0.4		0.11 (0.11)		0	0		0	0
TOTAL CATCH	95			483					32			24	

Table 3-9 Sunshine Coast Region SCP catch (2001-2018) (cont.)

TAXA	NTH PEREGIAN / CASTAWAYS BEACH DRUMLINES			GLEN EDEN / MARCUS BEACH DRUMLINES			PEREGIAN BEACH DRUMLINES			COOLUM BEACH NET			YAROOMBA BEACH DRUMLINES				
	Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	No./unit/yr (SE)		
Big Nose Whaler	0	0		0	0		0	0		0	0		0	0			
Bull Whaler	1	3.4	0.02 (0.02)	0	0		2	15.4	0.04 (0.03)	3	2.4	0.18 (0.1)	0	0			
Dusky Whaler	2	6.9	0.04 (0.03)	1	5.3	0.02 (0.02)	3	23.1	0.06 (0.03)	2	1.6	0.12 (0.08)	0	0			
Great Hammerhead	0	0		0	0		0	0		9	7.1	0.53 (0.21)	0	0			
Grey Reef Whaler	0	0		0	0		1	7.7	0.02 (0.02)	4	3.1	0.24 (0.18)	2	8.3	0.03 (0.02)		
Long Nose Whaler	1	3.4	0.02 (0.02)	1	5.3	0.02 (0.02)	1	7.7	0.02 (0.02)	48	37.8	2.82 (0.5)	4	16.7	0.06 (0.03)		
Mako	1	3.4	0.02 (0.02)	0	0		0	0		2	1.6	0.12 (0.08)	1	4.2	0.01 (0.01)		
Pigeys Whaler	0	0		0	0		0	0		0	0		0	0			
Sandbar Whaler	0	0		0	0		0	0		1	0.8	0.06 (0.06)	0	0			
Sharpnose Shark	0	0		0	0		0	0		0	0		0	0			
Silky Whaler	0	0		2	10.5	0.04 (0.03)	1	7.7	0.02 (0.02)	0	0		1	4.2	0.01 (0.01)		
Tiger Shark	19	65.5	0.35 (0.09)	12	63.2	0.22 (0.06)	5	38.5	0.09 (0.04)	1	0.8	0.06 (0.06)	10	41.7	0.14 (0.04)		
White Shark	0	0		0	0		0	0		1	0.8	0.06 (0.06)	0	0			
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	
Sharks & Rays																	
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			
Fossil Shark	0	0			0	0			0	0			0	0			
Hardnose Whaler	0	0			0	0			0	0			0	0			
Weasel Shark	0	0			0	0			2	1.6	0.12 (0.08)		0	0			
Whaler	0	0			0	0			0	0			0	0			
Scalloped Hammerhead	0	0			0	0			3	2.4	0.18 (0.13)		0	0			
Hammerhead Shark *	0	0			0	0			5	3.9	0.29 (0.14)		0	0			
Whale Shark	0	0			0	0			0	0			0	0			
Grey Nurse Shark	0	0			0	0			2	1.6	0.06 (0.06)	0.06 (0.06)	1	4.2	0.06 (0.06)		
Tawny Shark	0	0			0	0			0	0			0	0			
Zebra Shark	0	0			0	0			0	0			0	0			
Port Jackson Shark	0	0			0	0			0	0			0	0			
Unknown Shark	0	0			0	0			1	0.8	0.06 (0.06)		0	0			
Manta Ray	0	0			1	5.3	0.06 (0.06)		0	0			10	7.9	0.29 (0.19)	0.29 (0.14)	
Devilray *	0	0			0	0			1	0.8	0.06 (0.06)		0	0			
Cownose Ray	0	0			0	0			2	1.6	0.12 (0.12)		0	0			
Eagle Ray *	0	0			0	0			3	2.4	0.06 (0.06)	0.12 (0.08)	0	0			
White-Spotted Eagle Ray	0	0			0	0			1	0.8	0.06 (0.06)		0	0			
Shark Ray	0	0			0	0			0	0			0	0			
White-Spotted Guitar	0	0			0	0			0	0			0	0			
Shovel-nosed Ray *	0	0			0	0			4	3.1	0.18 (0.1)	0.06 (0.06)	0	0			
Bull Ray	0	0			0	0			0	0			0	0			
Ray	0	0			0	0			4	3.1	0.18 (0.13)	0.06 (0.06)	0	0			
Teleosts																	
Black Kingfish Cobia	0	0			0	0			0	0			0	0			
Bonita	0	0			0	0			0	0			0	0			
Cod	0	0			0	0			0	0			0	0			
Giant Trevally	0	0			0	0			0	0			0	0			
Jewfish	0	0			0	0			0	0			0	0			
Mackeral	0	0			0	0			0	0			0	0			
Queen Fish	0	0			0	0			0	0			0	0			
Salmon	0	0			0	0			0	0			0	0			
Snapper	1	3.4	0.06 (0.06)		0	0			0	0			0	0			
Sweetlip	0	0			1	5.3	0.06 (0.06)		0	0			0	0			
Tuna	0	0			0	0			7	5.5	0.06 (0.06)	0.35 (0.15)	1	4.2	0.06 (0.06)		
Marine Mammals																	
Humpback Whale	0	0			0	0			2	1.6	0.12 (0.08)		0	0			
Australian Hb Dolphin	0	0			0	0			0	0			0	0			
Bottlenose Dolphin	0	0			0	0			2	1.6	0.12 (0.12)		0	0			
Common Dolphin	1	3.4	0.06 (0.06)		0	0			0	0			0	0			
Spinner Dolphin	0	0			0	0			0	0			0	0			
Dolphin	0	0			0	0			2	1.6	0.12 (0.12)		0	0			
Dugong	0	0			0	0			0	0			0	0			
Marine Turtles																	
Green Turtle	2	6.9	0.11 (0.08)		0	0			2	1.6	0.06 (0.06)	0.06 (0.06)	0	0			
Hawksbill Turtle	0	0			0	0			2	1.6	0.06 (0.06)	0.06 (0.06)	0	0			
Leatherback Turtle	0	0			0	0			0	0			1	4.2	0.06 (0.06)		
Loggerhead Turtle	1	3.4	0.06 (0.06)		1	5.3	0.06 (0.06)		0	0			3	12.5	0.11 (0.11)	0.06 (0.06)	
Unidentified Turtle	0	0			0	0			0	0			0	0			
Birds																	
Unidentified Bird	0	0			0	0			0	0			0	0			
TOTAL CATCH	29				19				13				127				24

Table 3-9

Sunshine Coast Region SCP catch (2001-2018) (cont.)

TAXA	HYATT RESORT BEACH DRUMLINES				MARCOOLA BEACH NET				SURFAIR RESORT BEACH DRUMLINES				MUDJIMBA BEACH DRUMLINES				TWIN WATERS RESORT BEACH DRUMLINES			
	Total no.	% Total	No./unit/yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Target species																				
Big Nose Whaler	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	1	6.3	0.01 (0.01)		4	3.9	0.24 (0.14)		1	6.7	0.01 (0.01)		0	0			0	0		
Dusky Whaler	0	0			3	2.9	0.18 (0.13)		1	6.7	0.01 (0.01)		0	0			1	7.7	0.01 (0.01)	
Great Hammerhead	0	0			2	2	0.12 (0.08)		0	0			0	0			0	0		
Grey Reef Whaler	1	6.3	0.01 (0.01)		1	1	0.06 (0.06)		1	6.7	0.01 (0.01)		0	0			0	0		
Long Nose Whaler	1	6.3	0.01 (0.01)		30	29.4	1.76 (0.33)		0	0			0	0			2	15.4	0.03 (0.02)	
Mako	0	0			0	0			0	0			0	0			0	0		
Pigeys Whaler	0	0			3	2.9	0.18 (0.13)		0	0			1	11.1	0.01 (0.01)		0	0		
Sandbar Whaler	0	0			1	1	0.06 (0.06)		0	0			0	0			0	0		
Sharpnose Shark	0	0			2	2	0.12 (0.08)		0	0			0	0			0	0		
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	11	68.8	0.15 (0.05)		0	0			9	60	0.13 (0.04)		6	66.7	0.08 (0.04)		6	46.2	0.08 (0.03)	
White Shark	2	12.5	0.03 (0.02)		1	1	0.06 (0.06)		0	0			0	0			0	0		
Non-target species			RELEASED No./yr (SE)	DEAD No./yr (SE)			RELEASED No./yr (SE)	DEAD No./yr (SE)			RELEASED No./yr (SE)	DEAD No./yr (SE)			RELEASED No./yr (SE)	DEAD No./yr (SE)			RELEASED No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			1	1	0.06 (0.06)		0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			1	1	0.06 (0.06)		0	0			0	0			0	0		
Hammerhead Shark *	0	0			7	6.9	0.41 (0.17)		0	0			0	0			0	0		
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			3	2.9	0.06 (0.06)	0.12 (0.08)	0	0			0	0			1	7.7	0.06 (0.06)	
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			8	7.8	0.06 (0.06)	0.41 (0.35)	0	0			0	0			0	0		
Devilray *	0	0			1	1	0.06 (0.06)		0	0			0	0			0	0		
Cownose Ray	0	0			2	2	0.12 (0.12)		0	0			0	0			0	0		
Eagle Ray *	0	0			1	1	0.06 (0.06)		0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			1	1	0.06 (0.06)		0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovelnosed Ray *	0	0			1	1	0.06 (0.06)		0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			7	6.9	0.18 (0.13)	0.24 (0.18)	0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			1	1	0.06 (0.06)		0	0			0	0			0	0		
Cod	0	0			0	0			2	13.3	0.11 (0.08)		0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Mackeral	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			1	1	0.06 (0.06)		0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			13	12.7	0.76 (0.36)		0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			1	7.7	0.06 (0.06)	
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			1	1	0.06 (0.06)		0	0			0	0			0	0		
Common Dolphin	0	0			2	2	0.12 (0.08)		1	6.7	0.06 (0.06)		0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			1	7.7	0.06 (0.06)	
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			4	3.9	0.24 (0.11)		0	0			2	22.2	0.06 (0.06)	0.06 (0.06)	1	7.7	0.06 (0.06)	
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
Birds																				
Unidentified Bird	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	16				102				15				9				13			

Table 3-9

Sunshine Coast Region SCP catch (2001-2018) (cont.)

TAXA	MAROOCHYDRE BEACH NET				ALEXANDRA HEADLAND BEACH NET				MOOLOOLABA BEACH NET				PT CARTWRIGHT BEACH DRUMLINES				BUDDINA BEACH DRUMLINES			
	Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)	
Target species																				
Big Nose Whaler	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	33	21.6	0.76 (0.15)		8	5.9	0.23 (0.09)		3	8.3	0.18 (0.13)		1	5.9	0.02 (0.02)		1	2.1	0.01 (0.01)	
Dusky Whaler	2	1.3	0.06 (0.04)		1	0.7	0.03 (0.03)		2	5.6	0.12 (0.12)		0	0			0	0		
Great Hammerhead	7	4.6	0.21 (0.07)		9	6.6	0.26 (0.09)		1	2.8	0.06 (0.06)		0	0			1	2.1	0.01 (0.01)	
Grey Reef Whaler	3	2	0.09 (0.06)		0	0			0	0			0	0			0	0		
Long Nose Whaler	24	15.7	0.68 (0.16)		24	17.6	0.69 (0.2)		7	19.4	0.41 (0.15)		2	11.8	0.04 (0.03)		1	2.1	0.01 (0.01)	
Mako	0	0			0	0			0	0			0	0			0	0		
Pigeye Whaler	0	0			0	0			0	0			0	0			1	2.1	0.01 (0.01)	
Sandbar Whaler	1	0.7	0.03 (0.03)		0	0			0	0			0	0			0	0		
Sharptooth Shark	0	0			1	0.7	0.03 (0.03)		0	0			0	0			0	0		
Silky Whaler	0	0			1	0.7	0.03 (0.03)		0	0			0	0			0	0		
Tiger Shark	4	2.6	0.12 (0.06)		0	0			0	0			13	76.5	0.24 (0.08)		30	63.8	0.28 (0.06)	
White Shark	1	0.7			0	0			0	0			0	0			0	0		
Non-target species																				
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	1	0.7	0.06 (0.06)		1	0.7	0.06 (0.06)		1	2.8	0.06 (0.06)		0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			1	0.7	0.06 (0.06)		0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	6	3.9	0.35 (0.17)		6	4.4	0.33 (0.11)		0	0			0	0			1	2.1	0.06 (0.06)	
Hammerhead Shark *	3	2	0.06 (0.06)	0.12 (0.08)	4	2.9	0.22 (0.13)		1	2.8			0	0			0	0		
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	1	0.7	0.06 (0.06)		4	2.9	0.22 (0.13)		0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	8	5.2	0.18 (0.13)	0.29 (0.11)	8	5.9	0.11 (0.08)	0.33 (0.18)	1	2.8	0.06 (0.06)		0	0			0	0		
Devilray *	2	1.3	0.12 (0.08)		12	8.8	0.28 (0.18)	0.39 (0.23)	1	2.8	0.06 (0.06)		0	0			0	0		
Cownose Ray	7	4.6	0.24 (0.14)	0.18 (0.1)	13	9.6	0.17 (0.09)	0.56 (0.41)	3	8.3	0.12 (0.08)	0.06 (0.06)	0	0			0	0		
Eagle Ray *	13	8.5	0.59 (0.19)	0.18 (0.1)	9	6.6	0.44 (0.12)	0.06 (0.06)	2	5.6	0.12 (0.08)		0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovel-nosed Ray *	2	1.3	0.06 (0.06)	0.06 (0.06)	0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	7	4.6	0.24 (0.14)	0.18 (0.13)	15	11	0.28 (0.11)	0.56 (0.28)	2	5.6	0.12 (0.12)		0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			3	2.2	0.17 (0.12)		0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			0	0			0	0		
Queen Fish	1	0.7	0.06 (0.06)		0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	2	1.3	0.06 (0.06)	0.06 (0.06)	6	4.4	0.33 (0.2)		0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	1	0.7	0.06 (0.06)		0	0			1	2.8	0.06 (0.06)		0	0			0	0		
Australian Hb Dolphin	0	0			2	1.5	0.11 (0.08)		0	0			0	0			0	0		
Bottlenose Dolphin	5	3.3	0.29 (0.14)		1	0.7	0.06 (0.06)		0	0			0	0			0	0		
Common Dolphin	11	7.2	0.12 (0.08)	0.53 (0.17)	2	1.5	0.11 (0.08)		2	5.6	0.12 (0.08)		0	0			1	2.1	0.06 (0.06)	
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	1	0.7	0.06 (0.06)		1	0.7	0.06 (0.06)		1	2.8	0.06 (0.06)		0	0			1	2.1	0.06 (0.06)	
Dugong	0	0			1	0.7	0.06 (0.06)		1	2.8	0.06 (0.06)		0	0			0	0		
Marine Turtles																				
Green Turtle	2	1.3	0.06 (0.06)	0.06 (0.06)	1	0.7	0.06 (0.06)		0	0			0	0			0	0		
Hawksbill Turtle	0	0			1	0.7	0.06 (0.06)		4	11.1	0.12 (0.08)	0.12 (0.08)	1	5.9	0.06 (0.06)		0	0		
Leatherback Turtle	1	0.7	0.06 (0.06)		0	0			0	0			0	0			0	0		
Loggerhead Turtle	3	2	0.18 (0.1)		1	0.7	0.06 (0.06)		3	8.3	0.12 (0.08)	0.06 (0.06)	0	0			10	21.3	0.5 (0.34)	0.06 (0.06)
Unidentified Turtle	1	0.7	0.06 (0.06)		0	0			0	0			0	0			0	0		
Birds																				
Unidentified Bird	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	153				136				36				13				47			

Table 3-9 Sunshine Coast Region SCP catch (2001-2018) (cont.)

TAXA	WURTULLA BEACH NET				CURRIMUNDI BEACH DRUMLINES				MOFFAT BEACH DRUMLINES				COLOUNDRA BEACH DRUMLINES				COLOUNDRA BEACH NET			
	Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)	
Target species																				
Big Nose Whaler	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	3	2.8	0.18 (0.13)		3	8.8	0.04 (0.02)		2	10.5	0.04 (0.03)		14	23.3	0.13 (0.04)		7	9.5	0.44 (0.2)	
Dusky Whaler	0	0			0	0			1	5.3	0.02 (0.02)		0	0			1	1.4	0.06 (0.06)	
Great Hammerhead	4	3.7	0.24 (0.11)		0	0			0	0			0	0			1	1.4	0.06 (0.06)	
Grey Reef Whaler	3	2.8	0.18 (0.1)		0	0			1	5.3	0.02 (0.02)		2	3.3	0.02 (0.01)		1	1.4	0.06 (0.06)	
Long Nose Whaler	48	44.9	2.82 (1.05)		2	5.9	0.03 (0.02)		4	21.1	0.07 (0.04)		3	5	0.03 (0.02)		11	14.9	0.69 (0.24)	
Mako	0	0			0	0			1	5.3	0.02 (0.02)		0	0			0	0		
Pigeys Whaler	2	1.9	0.12 (0.08)		0	0			0	0			3	5	0.03 (0.02)		0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0		
Sharptooth Shark	2	1.9	0.12 (0.08)		0	0			0	0			0	0			0	0		
Silky Whaler	0	0			0	0			1	5.3	0.02 (0.02)		0	0			0	0		
Tiger Shark	2	1.9	0.12 (0.08)		14	41.2	0.19 (0.06)		4	21.1	0.07 (0.04)		30	50	0.28 (0.05)		0	0		
White Shark	0	0			0	0			1	5.3	0.02 (0.02)		2	3.3	0.02 (0.01)		0	0		
Non-target species																				
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	1	0.9		0.06 (0.06)	0	0			0	0			0	0			1	1.4		0.06 (0.06)
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			3	4.1		0.19 (0.14)
Hammerhead Shark *	3	2.8		0.18 (0.18)	0	0			0	0			0	0			7	9.5		0.44 (0.16)
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	1	0.9		0.06 (0.06)	0	0			0	0			0	0			1	1.4		0.06 (0.06)
Tawny Shark	0	0			0	0			0	0			1	1.7	0.06 (0.06)		0	0		
Zebra Shark	1	0.9		0.06 (0.06)	0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			2	2.7		0.13 (0.09)
Manta Ray	2	1.9		0.06 (0.06)	0	0			0	0			2	3.3	0.06 (0.06)		4	5.4		0.25 (0.14)
Devilray *	3	2.8		0.18 (0.13)	0	0			0	0			0	0			7	9.5		0.44 (0.32)
Cownose Ray	3	2.8		0.06 (0.06)	0	0			0	0			0	0			4	5.4		0.13 (0.09)
Eagle Ray *	0	0			0	0			0	0			0	0			9	12.2		0.25 (0.14)
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			2	2.7		0.06 (0.06)
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovelnosed Ray *	1	0.9		0.06 (0.06)	0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	3	2.8		0.12 (0.12)	0	0			0	0			0	0			2	2.7		0.13 (0.09)
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Mackeral	0	0			0	0			0	0			0	0			0	0		
Queen Fish	2	1.9		0.12 (0.08)	0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			2	10.5		0.11 (0.08)	0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	6	5.6		0.35 (0.19)	0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	3	2.8		0.18 (0.1)	0	0			0	0			0	0			4	5.4		0.06 (0.06)
Common Dolphin	11	10.3		0.65 (0.23)	1	2.9		0.06 (0.06)	0	0			2	3.3	0.11 (0.08)		2	2.7		0.13 (0.09)
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			1	1.4		0.06 (0.06)
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			1	5.3		0.06 (0.06)	0	0			1	1.4		0.06 (0.06)
Leatherback Turtle	1	0.9		0.06 (0.06)	0	0			0	0			0	0			0	0		
Loggerhead Turtle	2	1.9		0.06 (0.06)	10	29.4		0.56 (0.32)	1	5.3		0.06 (0.06)	1	1.7		0.06 (0.06)	3	4.1		0.13 (0.09)
Unidentified Turtle	0	0			4	11.8		0.22 (0.17)	0	0			0	0			0	0		
Birds																				
Unidentified Bird	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	107				34				19				60				74			

Table 3-9 Sunshine Coast Region SCP catch (2001-2018) (cont.)

TAXA		WOORIM / BRIBIE ISLAND BEACH DRUMLINES			
Target species	Total no.	% Total	No./unit/yr (SE)		
Big Nose Whaler	0	0			
Bull Whaler	21	43.8	0.06 (0.02)		
Dusky Whaler	0	0			
Great Hammerhead	0	0			
Grey Reef Whaler	2	4.2	0.01 (0)		
Long Nose Whaler	1	2.1	<0.01		
Mako	0	0			
Pigeye Whaler	1	2.1	<0.01		
Sandbar Whaler	3	6.3	0.01 (0.01)		
Sharptooth Shark	0	0			
Silky Whaler	0	0			
Tiger Shark	10	20.8	0.03 (0.01)		
White Shark	1	2.1	<0.01		
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	
Sharks & Rays					
Blacktip Reef Whaler	1	2.1		0.06 (0.06)	
Fossil Shark	0	0			
Hardnose Whaler	0	0			
Weasel Shark	0	0			
Whaler	0	0			
Scalloped Hammerhead	0	0			
Hammerhead Shark *	0	0			
Whale Shark	0	0			
Grey Nurse Shark	0	0			
Tawny Shark	0	0			
Zebra Shark	0	0			
Port Jackson Shark	0	0			
Unknown Shark	0	0			
Manta Ray	0	0			
Devilray *	0	0			
Cownose Ray	0	0			
Eagle Ray *	0	0			
White-Spotted Eagle Ray	0	0			
Shark Ray	0	0			
White-Spotted Guitar	0	0			
Shovelnosed Ray *	0	0			
Bull Ray	0	0			
Ray	0	0			
Teleosts					
Black Kingfish Cobia	0	0			
Bonita	0	0			
Cod	0	0			
Giant Trevally	0	0			
Jewfish	0	0			
Mackeral	0	0			
Queen Fish	0	0			
Salmon	0	0			
Snapper	0	0			
Sweetlip	0	0			
Tuna	0	0			
Marine Mammals					
Humpback Whale	0	0			
Australian Hb Dolphin	0	0			
Bottlenose Dolphin	0	0			
Common Dolphin	3	6.3	0.11 (0.08)	0.06 (0.06)	
Spinner Dolphin	0	0			
Dolphin	0	0			
Dugong	0	0			
Marine Turtles					
Green Turtle	0	0			
Hawksbill Turtle	0	0			
Leatherback Turtle	2	4.2	0.11 (0.08)		
Loggerhead Turtle	3	6.3	0.11 (0.08)	0.06 (0.06)	
Unidentified Turtle	0	0			
Birds					
Unidentified Bird	0	0			
TOTAL CATCH	48				

Table 3-10 North Stradbroke Island Region SCP catch (2001-2018)

TAXA	AMITY PT BEACH DRUMLINES				FLINDERS BEACH DRUMLINES				CYLINDER BEACH DRUMLINES				OCEAN BEACH DRUMLINES			
	Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)	
Target species																
Big Nose Whaler	0	0			0	0			1	0.6	0.01 (0.01)		1	0.6	0.01 (0.01)	
Blue Shark	0	0			0	0			0	0			0	0		
Bull Whaler	15	32.6	0.1 (0.03)		0	0			5	3.1	0.03 (0.01)		5	3.1	0.03 (0.01)	
Dusky Whaler	0	0			0	0			16	10	0.11 (0.03)		16	10	0.11 (0.03)	
Great Hammerhead	0	0			0	0			1	0.6	0.01 (0.01)		1	0.6	0.01 (0.01)	
Mako	0	0			0	0			1	0.6	0.01 (0.01)		1	0.6	0.01 (0.01)	
Sandbar Whaler	0	0			0	0			1	0.6	0.01 (0.01)		1	0.6	0.01 (0.01)	
Sharptooth Shark	2	4.3	0.01 (0.01)		0	0			1	0.6	0.01 (0.01)		1	0.6	0.01 (0.01)	
Tiger Shark	5	10.9	0.03 (0.02)		4	100	0.67 (0.33)		78	48.8	0.51 (0.08)		78	48.8	0.51 (0.08)	
White Shark	0	0			0	0			10	6.3	0.07 (0.02)		10	6.3	0.07 (0.02)	
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays																
Blacktip Reef Whaler	1	2.2		0.06 (0.06)	0	0			6	3.8		0.33 (0.11)	6	3.8		0.33 (0.11)
Scalloped Hammerhead	0	0			0	0			1	0.6		0.06 (0.06)	1	0.6		0.06 (0.06)
Manta Ray	0	0			0	0			3	1.9	0.11 (0.08)	0.06 (0.06)	3	1.9	0.11 (0.08)	0.06 (0.06)
Marine Mammals																
Australian Hb Dolphin	0	0			0	0			1	0.6	0.06 (0.06)		1	0.6	0.06 (0.06)	
Marine Turtles																
Green Turtle	1	2.2	0.06 (0.06)		0	0			0	0			0	0		
Leatherback Turtle	0	0			0	0			2	1.3	0.11 (0.08)		2	1.3	0.11 (0.08)	
Loggerhead Turtle	21	45.7	1.17 (0.47)		0	0			33	20.6	1.78 (0.57)	0.06 (0.06)	33	20.6	1.78 (0.57)	0.06 (0.06)
Unidentified Turtle	1	2.2	0.06 (0.06)		0	0			0	0			0	0		
TOTAL CATCH	46				4				160				160			

Table 3-11 Gold Coast Region SCP catch (2001-2018)

TAXA	SHERATON MIRAGE SOUTHPORT BEACH DRUMLINES				MAIN BEACH NET				NARROWNECK BEACH DRUMLINES				ELKHORN BEACH DRUMLINES				STAGHORN AVE BEACH DRUMLINES			
	Total no.	% Total	No./unit/yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Target species																				
Bull Whaler	3	12	0.03 (0.02)		4	5.2	0.24 (0.14)		0	0			0	0			2	10.5	0.06 (0.04)	
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	1	4	0.01 (0.01)		0	0			0	0			0	0			1	5.3	0.03 (0.03)	
Great Hammerhead	0	0			3	3.9	0.18 (0.1)		0	0			0	0			0	0		
Long Nose Whaler	1	4	0.01 (0.01)		7	9.1	0.41 (0.21)		1	7.1	0.03 (0.03)		0	0			0	0		
Mako	0	0			0	0			0	0			1	10	0.03 (0.03)		1	5.3	0.03 (0.03)	
Pigeye Whaler	0	0			0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			2	14.3	0.06 (0.04)		0	0			1	5.3	0.03 (0.03)	
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	9	36	0.1 (0.03)		1	1.3	0.06 (0.06)		2	14.3	0.06 (0.04)		2	20	0.06 (0.04)		6	31.6	0.17 (0.09)	
White Shark	1	4	0.01 (0.01)		4	5.2	0.24 (0.11)		2	14.3	0.06 (0.04)		1	10	0.03 (0.03)		1	5.3	0.03 (0.03)	
Non-target species			RELEASED	DEAD			RELEASED	DEAD			RELEASED	DEAD			RELEASED	DEAD			RELEASED	DEAD
Sharks & Rays																				
Blacktip Reef Whaler	0	0			1	1.3		0.06 (0.06)	0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	1	4		0.06 (0.06)	10	13		0.59 (0.24)	1	7.1		0.06 (0.06)	0	0			0	0		
Hammerhead Shark *	1	4		0.06 (0.06)	0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			2	2.6	0.06 (0.06)	0.06 (0.06)	0	0			0	0			0	0		
Devilray *	0	0			2	2.6	0.06 (0.06)	0.06 (0.06)	0	0			0	0			0	0		
Cownose Ray	0	0			6	7.8	0.29 (0.14)	0.06 (0.06)	0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle	0	0			0	0			0	0			0	0			0	0		
Giant Shovelnosed R	0	0			0	0			0	0			0	0			0	0		
Eastern Shovelnosed	0	0			0	0			0	0			0	0			0	0		
Shovelnosed Ray *	0	0			9	11.7	0.47 (0.17)	0.06 (0.06)	0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Marlin	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			1	1.3		0.06 (0.06)	0	0			0	0			0	0		
Wahoo	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			5	6.5	0.29 (0.11)		0	0			0	0			0	0		
Antarctic Minke Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	3	12	0.17 (0.09)		15	19.5		0.88 (0.27)	0	0			1	10	0.06 (0.06)		1	5.3	0.06 (0.06)	
Bottlenose Dolphin	1	4	0.06 (0.06)		1	1.3		0.06 (0.06)	0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			1	1.3		0.06 (0.06)	0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	1	4	0.06 (0.06)		2	2.6	0.06 (0.06)	0.06 (0.06)	0	0			0	0			0	0		
Leatherback Turtle	1	4		0.06 (0.06)	3	3.9	0.12 (0.08)	0.06 (0.06)	0	0			0	0			0	0		
Loggerhead Turtle	2	8	0.11 (0.08)		0	0			6	42.9	0.33 (0.23)		5	50	0.28 (0.16)		6	31.6	0.22 (0.13)	0.11 (0.08)
Olive Ridley Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	25				77				14				10				19			

Table 3-11 Gold Coast Region SCP catch (2001-2018) (cont.)

TAXA	SURFERS BEACH NET				NORTHCLIFFE BEACH DRUMLINES				BROADBEACH BEACH DRUMLINES				KURRAWA BEACH NET				MERMAID BEACH NET			
	Total no.	% Total	No./unit/yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Bull Whaler	4	6.6	0.24 (0.11)		2	8.7	0.04 (0.03)		1	4.3	0.03 (0.03)		5	5.7	0.28 (0.14)		1	1.1	0.06 (0.06)	
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	2	3.3	0.12 (0.12)		1	4.3	0.02 (0.02)		3	13	0.08 (0.05)		0	0			2	2.2	0.11 (0.08)	
Great Hammerhead	0	0			4	17.4	0.07 (0.04)		0	0			6	6.8	0.33 (0.14)		3	3.3	0.17 (0.12)	
Long Nose Whaler	6	9.8	0.35 (0.15)		1	4.3	0.02 (0.02)		1	4.3	0.03 (0.03)		10	11.4	0.56 (0.2)		7	7.7	0.39 (0.14)	
Mako	1	1.6	0.06 (0.06)		0	0			0	0			0	0			0	0		
Pigeye Whaler	0	0			0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			2	8.7	0.04 (0.03)		3	13	0.08 (0.05)		1	1.1	0.06 (0.06)		2	2.2	0.11 (0.11)	
Silky Whaler	0	0			0	0			1	4.3	0.03 (0.03)		0	0			0	0		
Tiger Shark	0	0			5	21.7	0.09 (0.05)		9	39.1	0.25 (0.09)		1	1.1	0.06 (0.06)		0	0		
White Shark	3	4.9	0.18 (0.1)		2	8.7	0.04 (0.03)		0	0			1	1.1	0.06 (0.06)		2	2.2	0.11 (0.08)	
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	11	18	0.06 (0.06)	0.59 (0.23)	0	0			0	0			9	10.2	0.5 (0.26)		18	19.8	0.11 (0.08)	0.89 (0.27)
Hammerhead Shark *	1	1.6		0.06 (0.06)	0	0			0	0			1	1.1	0.06 (0.06)		0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	2	3.3	0.12 (0.08)		0	0			0	0			1	1.1	0.06 (0.06)		0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	4	6.6	0.18 (0.1)	0.06 (0.06)	0	0			0	0			1	1.1	0.06 (0.06)		5	5.5	0.11 (0.08)	0.17 (0.09)
Devilray *	0	0			0	0			0	0			1	1.1	0.06 (0.06)		1	1.1	0.06 (0.06)	
Cownose Ray	3	4.9		0.18 (0.13)	0	0			0	0			24	27.3	0.94 (0.43)	0.39 (0.23)	26	28.6	0.89 (0.55)	0.56 (0.29)
Eagle Ray *	0	0			0	0			0	0			5	5.7	0.22 (0.13)	0.06 (0.06)	4	4.4	0.17 (0.09)	0.06 (0.06)
White-Spotted Eagle	0	0			0	0			0	0			0	0			0	0		
Giant Shovelnosed R	0	0			0	0			0	0			0	0			0	0		
Eastern Shovelnosed	0	0			0	0			0	0			3	3.4	0.17 (0.12)		0	0		
Shovelnosed Ray *	3	4.9	0.12 (0.08)	0.06 (0.06)	0	0			0	0			2	2.3	0.11 (0.08)		4	4.4	0.22 (0.13)	
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Marlin	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			4	4.5	0.22 (0.17)		3	3.3	0.17 (0.09)	
Wahoo	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	5	8.2	0.29 (0.14)		0	0			0	0			6	6.8	0.22 (0.1)	0.11 (0.08)	3	3.3	0.11 (0.11)	0.06 (0.06)
Antarctic Minke Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	9	14.8	0.12 (0.08)	0.41 (0.12)	1	4.3	0.06 (0.06)		0	0			1	1.1	0.06 (0.06)		3	3.3	0.06 (0.06)	0.11 (0.08)
Bottlenose Dolphin	1	1.6		0.06 (0.06)	1	4.3	0.06 (0.06)		0	0			1	1.1	0.06 (0.06)		0	0		
Spinner Dolphin	1	1.6		0.06 (0.06)	0	0			0	0			3	3.4	0.17 (0.09)		0	0		
Dolphin	3	4.9		0.18 (0.18)	0	0			0	0			0	0			3	3.3	0.17 (0.12)	
Marine Turtles																				
Green Turtle	2	3.3	0.06 (0.06)	0.06 (0.06)	0	0			0	0			0	0			1	1.1	0.06 (0.06)	
Leatherback Turtle	0	0			0	0			1	7.1	0.06 (0.06)		0	0			1	1.1	0.06 (0.06)	
Loggerhead Turtle	0	0			4	17.4	0.22 (0.1)		4	21.4	0.22 (0.1)		1	1.1	0.06 (0.06)		2	2.2	0.11 (0.08)	
Olive Ridley Turtle	0	0			0	0			0	0			1	1.1	0.06 (0.06)		0	0		
TOTAL CATCH	61				23				23				61				91			

Table 3-11 Gold Coast Region SCP catch (2001-2018) (cont.)

TAXA	NOBBYS BEACH DRUMLINES				MIAMI BEACH NET				NTH BURLEIGH BEACH DRUMLINES				BURLEIGH BEACH NET				TALLEBUDGERRA BEACH NET			
	Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)	DEAD No./yr (SE)	Total no.	% Total	No./unit/yr (SE)	DEAD No./yr (SE)	Total no.	% Total	No./unit/yr (SE)	DEAD No./yr (SE)	Total no.	% Total	No./unit/yr (SE)	DEAD No./yr (SE)
Bull Whaler	2	6.9	0.06 (0.04)		3	2.5	0.18 (0.1)		0	0			5	3	0.29 (0.17)		8	5.5	0.47 (0.17)	
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	3	10.3	0.08 (0.05)		0	0			3	11.1	0.08 (0.05)		1	0.6	0.06 (0.06)		1	0.7	0.06 (0.06)	
Great Hammerhead	0	0			4	3.4	0.24 (0.11)		0	0			4	2.4	0.24 (0.14)		5	3.4	0.29 (0.14)	
Long Nose Whaler	1	3.4	0.03 (0.03)		7	5.9	0.41 (0.19)		4	14.8	0.11 (0.07)		21	12.5	1.24 (0.28)		14	9.6	0.82 (0.37)	
Mako	2	6.9	0.06 (0.04)		3	2.5	0.18 (0.1)		2	7.4	0.06 (0.04)		2	1.2	0.12 (0.08)		2	1.4	0.12 (0.08)	
Pigeye Whaler	1	3.4	0.03 (0.03)		0	0			0	0			1	0.6	0.06 (0.06)		0	0		
Sandbar Whaler	5	17.2	0.14 (0.07)		0	0			1	3.7	0.03 (0.03)		0	0			2	1.4	0.12 (0.08)	
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	2	6.9	0.06 (0.04)		1	0.8	0.06 (0.06)		6	22.2	0.17 (0.06)		0	0			1	0.7	0.06 (0.06)	
White Shark	3	10.3	0.08 (0.06)		1	0.8	0.06 (0.06)		5	18.5	0.14 (0.06)		7	4.2	0.41 (0.21)		2	1.4	0.12 (0.08)	
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			1	0.8		0.06 (0.06)	0	0			0	0			0	0		
Whaler	1	3.4	0.06 (0.06)		0	0			0	0			0	0			0	0		
Scalloped Hammerhead	1	3.4		0.06 (0.06)	22	18.6		1.29 (0.48)	0	0			25	14.9	0.06 (0.06)	1.41 (0.4)	33	22.6		1.94 (0.45)
Hammerhead Shark *	0	0			1	0.8		0.06 (0.06)	0	0			1	0.6		0.06 (0.06)	0	0		
Grey Nurse Shark	0	0			0	0			0	0			1	0.6	0.06 (0.06)		1	0.7	0.06 (0.06)	
Tawny Shark	0	0			0	0			0	0			1	0.6	0.06 (0.06)		0	0		
Zebra Shark	0	0			2	1.7	0.12 (0.08)		0	0			2	1.2	0.12 (0.08)		3	2.1	0.18 (0.1)	
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			4	3.4	0.06 (0.06)	0.18 (0.1)	0	0			5	3	0.18 (0.1)	0.12 (0.12)	7	4.8	0.12 (0.08)	0.29 (0.14)
Devilray *	0	0			3	2.5	0.12 (0.08)	0.06 (0.06)	0	0			3	1.8	0.06 (0.06)	0.12 (0.12)	1	0.7	0.06 (0.06)	
Cownose Ray	0	0			45	38.1	1.82 (1.17)	0.82 (0.32)	0	0			47	28	1.94 (1.16)	0.82 (0.26)	34	23.3	1.47 (0.39)	0.53 (0.35)
Eagle Ray *	0	0			4	3.4	0.24 (0.11)		0	0			6	3.6	0.29 (0.14)	0.06 (0.06)	3	2.1	0.12 (0.12)	0.06 (0.06)
White-Spotted Eagle	0	0			0	0			0	0			0	0			0	0		
Giant Shovelnosed R	0	0			1	0.8	0.06 (0.06)		0	0			1	0.6	0.06 (0.06)		1	0.7	0.06 (0.06)	
Eastern Shovelnosed	0	0			0	0			0	0			0	0			0	0		
Shovelnosed Ray *	0	0			4	3.4	0.24 (0.14)		0	0			4	2.4	0.06 (0.06)	0.18 (0.13)	7	4.8	0.41 (0.17)	
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Marlin	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			3	1.8		0.18 (0.1)	2	1.4		0.12 (0.08)
Wahoo	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			3	2.5	0.18 (0.13)		0	0			4	2.4	0.24 (0.14)		1	0.7	0.06 (0.06)	
Antarctic Minke Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	1	3.4	0.06 (0.06)		3	2.5		0.18 (0.1)	0	0			16	9.5	0.06 (0.06)	0.88 (0.24)	9	6.2	0.06 (0.06)	0.47 (0.23)
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			3	1.8		0.18 (0.13)	0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			2	1.7	0.06 (0.06)	0.06 (0.06)	0	0			1	0.6	0.06 (0.06)		1	0.7		0.06 (0.06)
Leatherback Turtle	0	0			1	0.8	0.06 (0.06)		0	0			1	0.6		0.06 (0.06)	0	0		
Loggerhead Turtle	7	24.1	0.39 (0.18)		3	2.5	0.12 (0.08)	0.06 (0.06)	6	22.2	0.33 (0.14)		3	1.8	0.18 (0.1)		8	5.5	0.47 (0.15)	
Olive Ridley Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	29				118				27				168				146			

Table 3-11 Gold Coast Region SCP catch (2001-2018) (cont.)

TAXA	PALM BEACH DRUMLINES				CURRUMBIN BEACH NET				TUGUN BEACH DRUMLINES				BILINGA BEACH NET				NTH KIRRA BEACH DRUMLINES			
	Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)	
Bull Whaler	2	11.8	0.06 (0.04)		7	4.1	0.39 (0.16)		0	0			4	2.3	0.24 (0.11)		0	0		
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	2	11.8	0.06 (0.04)		2	1.2	0.11 (0.08)		2	15.4	0.04 (0.03)		0	0			1	7.1	0.03 (0.03)	
Great Hammerhead	0	0			7	4.1	0.39 (0.16)		0	0			3	1.8	0.18 (0.1)		1	7.1	0.03 (0.03)	
Long Nose Whaler	2	11.8	0.06 (0.04)		20	11.8	1.11 (0.29)		0	0			25	14.6	1.47 (0.32)		0	0		
Mako	0	0			1	0.6	0.06 (0.06)		0	0			1	0.6	0.06 (0.06)		1	7.1	0.03 (0.03)	
Pigeeye Whaler	0	0			0	0			0	0			0	0			0	0		
Sandbar Whaler	2	11.8	0.06 (0.04)		0	0			1	7.7	0.02 (0.02)		0	0			0	0		
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	1	5.9	0.03 (0.03)		0	0			4	30.8	0.07 (0.04)		0	0			6	42.9	0.17 (0.08)	
White Shark	0	0			4	2.4	0.22 (0.13)		1	7.7	0.02 (0.02)		2	1.2	0.12 (0.08)		1	7.1	0.03 (0.03)	
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			25	14.7		1.39 (0.36)	0	0			41	24		2.41 (0.73)	1	7.1		0.06 (0.06)
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			1	0.6	0.06 (0.06)		0	0			2	1.2	0.06 (0.06)	0.06 (0.06)	0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			3	1.8	0.11 (0.08)	0.06 (0.06)	0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			3	1.8	0.11 (0.08)	0.06 (0.06)	0	0			2	1.2	0.06 (0.06)	0.06 (0.06)	0	0		
Devilray *	0	0			1	0.6	0.06 (0.06)		0	0			2	1.2		0.12 (0.08)	0	0		
Cownose Ray	0	0			55	32.4	2.61 (1.81)	0.44 (0.27)	0	0			40	23.4	1.53 (0.64)	0.82 (0.26)	0	0		
Eagle Ray *	0	0			6	3.5	0.17 (0.09)	0.17 (0.09)	0	0			8	4.7	0.29 (0.17)	0.18 (0.1)	0	0		
White-Spotted Eagle	0	0			0	0			0	0			0	0			0	0		
Giant Shovel nosed R	0	0			1	0.6	0.06 (0.06)		0	0			1	0.6	0.06 (0.06)		0	0		
Eastern Shovel nosed	0	0			0	0			0	0			0	0			0	0		
Shovel nosed Ray *	0	0			8	4.7	0.17 (0.12)	0.28 (0.11)	1	7.7	0.06 (0.06)		13	7.6	0.53 (0.15)	0.24 (0.11)	0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Marlin	0	0			1	0.6		0.06 (0.06)	0	0			0	0			0	0		
Tuna	0	0			3	1.8		0.17 (0.09)	0	0			4	2.3		0.24 (0.11)	0	0		
Wahoo	0	0			0	0			0	0			1	0.6		0.06 (0.06)	0	0		
Marine Mammals																				
Humpback Whale	0	0			6	3.5	0.28 (0.11)	0.06 (0.06)	0	0			1	0.6	0.06 (0.06)		0	0		
Antarctic Minke Whale	0	0			0	0			0	0			1	0.6		0.06 (0.06)	0	0		
Australian Hb Dolphin	0	0			0	0			0	0			1	0.6		0.06 (0.06)	0	0		
Common Dolphin	0	0			9	5.3		0.5 (0.15)	0	0			10	5.8		0.59 (0.19)	0	0		
Bottlenose Dolphin	1	5.9	0.06 (0.06)		1	0.6		0.06 (0.06)	0	0			1	0.6		0.06 (0.06)	0	0		
Spinner Dolphin	0	0			1	0.6		0.06 (0.06)	0	0			1	0.6		0.06 (0.06)	0	0		
Dolphin	0	0			0	0			1	7.7	0.06 (0.06)		0	0			0	0		
Marine Turtles																				
Green Turtle	5	29.4	0.28 (0.18)		1	0.6	0.06 (0.06)		0	0			1	0.6	0.06 (0.06)		0	0		
Leatherback Turtle	0	0			0	0			0	0			1	0.6	0.06 (0.06)		1	7.1	0.06 (0.06)	
Loggerhead Turtle	2	11.8	0.11 (0.11)		4	2.4	0.17 (0.09)	0.06 (0.06)	2	15.4	0.11 (0.08)		5	2.9	0.24 (0.14)	0.06 (0.06)	2	14.3	0.11 (0.08)	
Olive Ridley Turtle	0	0			0	0			1	7.7	0.06 (0.06)		0	0			0	0		
TOTAL CATCH	17				170				13				171				14			

Table 3-11 Gold Coast Region SCP catch (2001-2018) (cont.)

TAXA	KIRRA BEACH NET				COOLANGATTA BEACH NET				RAINBOW BAY DRUMLINES			
	Target species	Total no.	% Total	No./unit/yr (SE)	Total no.	% Total	No./unit/yr (SE)		Total no.	% Total	No./unit/yr (SE)	
Bull Whaler	2	1.2	0.12 (0.08)		3	1.9	0.17 (0.09)		2	2.3	0.01 (0.01)	
Common Blacktip Whaler	2	1.2	0.12 (0.08)		0	0			0	0		
Dusky Whaler	1	0.6	0.06 (0.06)		4	2.5	0.22 (0.1)		4	4.6	0.03 (0.02)	
Great Hammerhead	6	3.5	0.35 (0.17)		2	1.2	0.11 (0.08)		0	0		
Long Nose Whaler	20	11.6	1.18 (0.25)		17	10.5	0.94 (0.24)		0	0		
Mako	4	2.3	0.24 (0.14)		3	1.9	0.17 (0.09)		4	4.6	0.03 (0.01)	
Pigeye Whaler	0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			0	0		
Silky Whaler	0	0			0	0			0	0		
Tiger Shark	3	1.7	0.18 (0.1)		0	0			31	35.6	0.22 (0.04)	
White Shark	7	4	0.41 (0.17)		2	1.2	0.11 (0.08)		12	13.8	0.08 (0.03)	
Non-target species	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)	Total no.	% Total	RELEASED No./yr (SE)	DEAD No./yr (SE)
Sharks & Rays												
Blacktip Reef Whaler	0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0		
Whaler	0	0			0	0			0	0		
Scalloped Hammerhead	30	17.3		1.76 (0.5)	21	15.6		1.17 (0.26)	1	1.1		0.06 (0.06)
Hammerhead Shark *	0	0			1	0		0.06 (0.06)	0	0		
Grey Nurse Shark	0	0			1	0.6	0.06 (0.06)		0	0		
Tawny Shark	0	0			0	0			0	0		
Zebra Shark	3	1.7	0.12 (0.08)	0.06 (0.06)	2	1.9	0.06 (0.06)	0.06 (0.06)	0	0		
Unknown Shark	0	0			1	0		0.06 (0.06)	0	0		
Manta Ray	7	4	0.35 (0.15)	0.06 (0.06)	3	1.9	0.06 (0.06)	0.11 (0.08)	2	2.3	0.11 (0.08)	
Devilray *	1	0.6		0.06 (0.06)	5	0.6	0.22 (0.13)	0.06 (0.06)	0	0		
Cownose Ray	43	24.9	1.53 (0.92)	1 (0.54)	48	34.4	2.11 (0.83)	0.56 (0.18)	0	0		
Eagle Ray *	4	2.3	0.12 (0.08)	0.12 (0.08)	8	3.8	0.33 (0.14)	0.11 (0.11)	0	0		
White-Spotted Eagle	0	0			2	0	0.06 (0.06)	0.06 (0.06)	0	0		
Giant Shovel nosed R	0	0			2	0.6	0.11 (0.11)		0	0		
Eastern Shovel nosed	0	0			0	0			0	0		
Shovel nosed Ray *	8	4.6	0.29 (0.11)	0.18 (0.1)	6	5	0.11 (0.08)	0.22 (0.1)	0	0		
Bull Ray	0	0			0	0			1	1.1	0.06 (0.06)	
Ray	0	0			1	0	0.06 (0.06)		0	0		
Teleosts												
Black Kingfish Cobia	0	0			1	0	0.06 (0.06)		0	0		
Marlin	4	2.3		0.24 (0.18)	0	0.6			0	0		
Tuna	4	2.3		0.24 (0.11)	0	1.9			0	0		
Wahoo	0	0			0	0			0	0		
Marine Mammals												
Humpback Whale	6	3.5	0.35 (0.15)		8	3.8	0.44 (0.2)		0	0		
Antarctic Minke Whale	0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0		
Common Dolphin	9	5.2		0.53 (0.17)	12	5.6		0.67 (0.18)	0	0		
Bottlenose Dolphin	0	0			0	0.6			0	0		
Spinner Dolphin	0	0			0	0.6			0	0		
Dolphin	0	0			0	0			0	0		
Marine Turtles												
Green Turtle	4	2.3	0.18 (0.1)	0.06 (0.06)	5	0.6	0.22 (0.13)	0.06 (0.06)	1	1.1	0.06 (0.06)	
Leatherback Turtle	0	0			2	0	0.11 (0.08)		1	1.1	0.06 (0.06)	
Loggerhead Turtle	5	2.9	0.24 (0.14)	0.06 (0.06)	2	2.5	0.11 (0.08)		28	32.2	1.5 (0.39)	0.06 (0.06)
Olive Ridley Turtle	0	0			0	0			0	0		
TOTAL CATCH	173				162				87			

3.2 Data Type 2: Independent Regionally-specific Shark Population Studies

3.2.1 Key Findings

There have been numerous studies on sharks on the Queensland coast, covering a range of topics including basic biology and ecology, habitat use, fisheries' yields and other research questions. This body of work includes, but is not limited to, shark species implicated in unprovoked bites on humans. Some of this work has analysed data collected as part of the SCP. Very little of the work, however, has focussed on estimating the population size of potentially dangerous shark species. It is important to recognise that none of the various studies referred to below have been undertaken for the purpose of understanding or mitigating risk of unprovoked shark bite.

3.2.1.1 Bull Whaler, Tiger and White Sharks

3.2.1.1.1 White Sharks

There has been relatively little research specifically focused on white sharks in Queensland waters. This is unsurprising given much of the Queensland east coast is not a core part of the range of this species. Those that do occur generally occur south of Fraser Island. Most research on white sharks has focussed in South Australia due to known accessible aggregations occurring at places such as the Neptune Islands. Hillary et al. (2018) provide recent estimates of the population size of white sharks in Australia. They estimated numbers of adult white sharks on the Australian east coast to be between 250 and 650 individuals but with a total population size (including juveniles and sub adults) of between 2,500–6,750 individuals. White sharks on the Australian east coast are a shared stock with New Zealand (Blower et al. 2012; Hillary et al. 2018).

3.2.1.1.2 Bull Whalers

For bull whalers, Leigh (2018) estimated that the maximum sustainable yield (MSY) (combined with data for a similar species, the pigeye shark, *Carcharhinus amboinensis*) is 438 tonnes for the region between Rockhampton and Lockhart using the Maximum Likelihood Estimate and 159.9 tonnes using the highly conservative minimum MSY approach. These estimates highlight that the likely biomass and hence abundance, of bull whalers on the Queensland coast is high. Analysis of catch per unit effort (CPUE) data for bull whalers collected as part of the SCP did not support a hypothesis of population decline indicative of coastal overfishing (Haig et al. 2018).

Habitat use and movements of juvenile bull whalers has been assessed by Werry et al. (2012). They found a pronounced preference by bull whalers for natural over artificial habitats. They hypothesised that this pattern was due to the presence of riparian vegetation (e.g. mangroves), and well-established tidal flows which greatly contrast with the artificial canals where riparian vegetation is almost non-existent and tidal flow is greatly modified, resulting in the deoxygenation of the bottom layers, which is a strong deterrent to demersal species such as bull whalers (Reilly et al. 2011). Werry et al. (2011) documented habitat and dietary changes in subadults as they left the juvenile habitat.

Through analysis of SCP catches before and after key weather events (such as floods) Werry et al. (2018) showed that bull shark catch (occurrence) in beach areas is driven by rainfall and further influenced by sea surface temperature. A total of ≥ 100 mm rainfall in the catchment associated with each SCP beach area is significantly correlated with increased bull shark catch for 1 - 8 days after the rainfall. This relationship was confirmed by the movements of acoustic tagged sharks between estuarine and beach areas.

3.2.1.1.3 Tiger Sharks

Simpfendorfer (1992) reported on a number of biological parameters for tiger sharks including litter size, ontogenetic changes in diet, size at maturity and sex ratios. Holmes et al. (2015) reported on the age and growth of tiger sharks in Queensland. While the overall population size of tiger sharks within the GBRMP or the Australian east coast more broadly is not known, available information does not suggest that recruitment overfishing is occurring (i.e. there are not enough adults to produce sufficient offspring to replenish the population). Tiger sharks are considered more resilient to fishing pressure than many other shark species due to their relative high fecundity and juvenile survivorship, and fast growth rates (Simpfendorfer 1992; Compagno et al. 2005). Holmes et al. (2012) using SCP data identified reductions in catch rate that were consistent with a decline in tiger shark abundance, however, they added that interpretation of the data should be made with caution, as the inter-annual catch per unit effort (CPUE) varies considerably at most locations.

In Queensland, tiger sharks are part of a much larger population within the Indo-Pacific (Holmes et al. 2017). Werry et al. (2014) assessed the large-scale movements of tiger sharks in the Coral Sea and showed movements of individuals out of Australian waters. This work showed significant individual variation in the movements of tiger sharks. They categorised individual movements of sharks into four categories: (1) Passer-by, for individuals never detected on acoustic arrays after the first month of release after acoustic tagging. (2) Transient, for individuals that were re-detected on individual acoustic arrays after temporal periods greater than one month. (3) Pseudo-Resident, for individuals detected on the same acoustic array for more than five days within each month for three or more months of the year and for <30% of their potential detection period, and (4) Residents, for individuals detected within ten or more months in each year within individual acoustic arrays and for >30% of their entire potential detection period.

3.2.1.2 Other Whaler Shark Species

Robbins et al. (2006) documented substantial declines of grey reef whalers (*Carcharhinus amblyrhynchos*) and white tip reef sharks (*Triaenodon obesus*) within the GBRMP as a result of fishing (legal and illegal). However, Smart et al. (2018) reassessed the population dynamics of grey reef whalers using more accurate estimates of mortality for the species and contradicted the demographics results of Robbins et al. (2006) (and a number of other studies) for this species, suggesting that the declines had been overstated. Heupel et al. (2010) indicated limited reef fidelity for grey reef whalers and one individual was recorded to have travelled for 134 km within northern Australian waters.

Leigh (2015) found that the estimates of MSY between Rockhampton and Lockhart for the Australian blacktip shark (*Carcharhinus tilstoni*) and the common blacktip reef whaler (*Carcharhinus melanopterus*) was 670.4 tonnes and 117.5 tonnes, respectively and 143.6 and 34 tonnes for the highly conservative minimum MSY. On the east coast as a whole, Leigh (2015) found the minimum MSY estimate for both species was 390 tonnes. The Queensland commercial catch of each combined was 270 tonnes in 2015 and is identified as sustainable through the Australian government's Status of Australian Fish Stocks Reports which bring together available biological, catch and effort information to determine the status of Australia's key wild catch fish stocks. The MSY estimates of Leigh (2015) highlight that the population sizes for these two blacktip whalers are potentially large, particularly for the Australia blacktip shark.

3.2.1.3 Illegal Harvest by Foreign Fishing Vessels.

Sharks are captured by illegal foreign fishing vessels across the northern part of Australia, including the northern parts of the Coral Sea. While imperfectly quantified, illegal catches by foreign fishing vessels of many shark species captured are substantial and represent a known threat to sustainability (Pascoe et al. 2008; Marshall 2011). In 2005, 13,018 illegal fishing vessels were sighted in Australian waters but only 600 were apprehended by Australian officials (Vince 2007). Illegal foreign fishing for sharks in Northern Australia increased substantially since the 1980s (Pascoe et al. 2008). A survey by Marshall (2011) of just 17 foreign fishing vessels (15 Indonesian and two Taiwanese) apprehended in northern Australian waters between February 2006 and July 2009 identified that 1,182 individual sharks were retained for a total estimated biomass of 61.7 tonnes, with the catch consisting of 33 species from eight families.

Those species caught that are also target species in the SCP were Australian blacktip shark, common blacktip whaler, great hammerhead, pigeye shark, silky whaler (*Carcharhinus falciformis*), grey reef whaler, white tip reef shark, and blue shark (*Prionace glauca*) (Marshall 2011). Given the information from Marshall (2011) was collected from only a very small number of apprehended boats compared with what Vince (2005) considered would be fishing in Australian waters, the take reported by Marshall (2011) is likely to substantially underestimate the overall take by illegal foreign fishing boats in Australian waters. With more enforcement effort targeting illegal foreign fishing vessels in northern Australia in contemporary times it is likely that the catch of sharks by these vessels has decreased. However, by how much is unknown and difficult to determine.

3.2.1.4 Independent Fisheries Assessments

Harry et al. (2011) presented data from an observer survey of the East Coast Inshore Finfish Fishery (ECIFF) and determined that in the Great Barrier Reef World Heritage Area at least 38 species of elasmobranch were present in the catch. Of the total elasmobranch catch, 95% was 25 species of Carcharhiniformes from the families Carcharhinidae, Hemigaleidae and Sphyrnidae. The numerically dominant species in the catch were the blacktip sharks (*C. tilstoni* and *C. limbatus*) and the spot-tail whaler.

3.2.2 Limitations of Data

Data on biology, natural history and movements are unavailable for most of the target species and patchy for others and do not allow firm conclusions to be drawn regarding the status of any species.

3.2.3 Maps and Summaries

N/A for this data type

3.3 Data Type 3: Fisheries Shark Catch

3.3.1 Key Findings

Sharks are a focus, by product or bycatch species for the East Coast Inshore Finfish Fishery (ECIFF) which is a multi-species net fishery that operates the length of the Queensland Coast except where there are closures under fisheries or marine park legislation. The management of the fishery has evolved significantly over the years and is currently the focus of further management reform as part of the Sustainable Fisheries Strategy. Most significantly, the introduction of a total allowable commercial catch (TACC) for sharks on the East Coast was introduced in 2008. Marine park closures implemented as a result of the Great Barrier Reef Representative Areas Program (RAP) in 2003 and more recently the establishment of net free fishing areas in Cairns, Rockhampton and Mackay in 2015 reduced the area over which sharks could be caught by commercial net fishers.

Smaller numbers of sharks are also recorded as being caught in trawl and line fisheries prior to management changes. Very small numbers of small benthic shark species may also be collected by divers for the aquarium trade. The focus of the analysis in this report is catch and effort in the ECIFF as this represents the major source of commercial shark catch. All retained catches of sharks are required to be reported (by weight) in compulsory logbooks which were introduced in 1988. Prior to 2018, commercial fishers were not required to record the number of sharks caught and subsequently discarded during fishing operations.

Commercial market trends are also an obvious driver of recorded shark catch, including price and catchability relative to other species. Changes to seafood sourcing requirements by some retail outlets in recent years impacted the volume of the market for sharks.

Despite some limitations (see below), commercial catch data provides a record of the number of sharks caught and retained commercially in a location, and trends over time of the landed catch. These trends in 'total catch' by region are given below.

3.3.1.1 Cairns

The Cairns SCP region is covered by commercial fishing logbook grid H16. Between 1988 and 2018, the minimum retained total catch of sharks (all species) was 367 tonnes. This does not include catch that is not publicly available (i.e. where less than five boats recorded catch in the grid in a given year). Recorded catch was highest in 2004 at 36 tonnes. Most of the recorded catch was taken between 2000 and 2009 (**Figure 3-1a**).

3.3.1.2 Townsville

The Townsville SCP region is covered by commercial fishing logbook grid J21. Between 1988 and 2016 the recorded catch of sharks was approximately 834 tonnes. In each of these years more than five boats recorded shark catch in this logbook grid. The catch peaked in 2004 and has since been in decline (**Figure 3-1b**).

3.3.1.3 Mackay

The Mackay SCP region is covered by commercial fishing logbook grid 025. Between 1988 and 2010 the recorded catch of sharks was approximately 436 tonnes. In each of these years more than five boats recorded shark catch in this logbook grid. Recorded catch has declined sharply since 2010. The catch peaked in 2001 (**Figure 3-1c**).

3.3.1.4 Capricorn Coast

The Capricorn SCP region is covered by commercial fishing logbook grid R29. Between 1988 and 2015 the recorded catch of sharks was approximately 457 tonnes. In each of these years more than five boats recorded shark catch in this logbook grid. Recorded catch has declined sharply since 2010. The catch peaked in the period 2003 to 2006. It has been small since 2009 and the area has been closed to commercial net fishing since 2015 (**Figure 3-2a**).

3.3.1.5 Tannum Sands

The Tannum Sands SCP region is covered by commercial fishing logbook grid S30. Between 1988 and 2017 the recorded catch of sharks was approximately 925 tonnes. The actual reported catch for this period may be larger as no publicly available catch data existed for 2012. The catch peaked sharply in 2004 and remained high until 2008 before dropping off to substantially lower levels (**Figure 3-2b**).

3.3.1.6 Woongarra

The Woongarra SCP region is covered by commercial fishing logbook grid U32. Between 1988 and 2018 the recorded catch of sharks was approximately 1,084 tonnes. The catch peaked in 1998 at more than 70 tonnes. Since 2009 and with the exception of 2012, the recorded catch has generally been lower than across the dataset as a whole (**Figure 3-2c**).

3.3.1.7 Rainbow Beach

The Rainbow Beach SCP region is covered by commercial fishing logbook grid W34. Overall recorded catch of sharks is small at approximately 68 tonnes for the period examined. 2008 was the only year where more than ten tonnes of shark were caught (**Figure 3-3a**).

3.3.1.8 Sunshine Coast

The Sunshine Coast SCP region covers logbook grids W35 and W36. W35 includes Noosa south to approximately Peregrine Beach while W36 includes the rest of the Sunshine Coast SCP with the exception of Woorim which is in the same logbook grid as part of the North Stradbroke Island SCP region. Approximately 68 tonnes of shark was recorded as being caught in logbook grid W35 and approximately 158 tonnes was caught in logbook grid W36.

Across the two logbook grids, recorded shark catch peaked in 2003 and was also over 20 tonnes in 1996. Recorded catch since 2008 has been low (**Figure 3-3b**).

3.3.1.9 North Stradbroke Island and the Woorim region of the Sunshine Coast

Logbook grid W37 contains Amity Point, which is part of the North Stradbroke SCP region and Woorim on Bribie Island which is part of the Sunshine Coast SCP region. Logbook grid X37 contains the Point Lookout region of the North Stradbroke Island SCP area. There was only one instance of recorded commercial catch by net in logbook grid X37, which was 108 kg in 2008. The data for only logbook grid W37 have been graphed. The total catch in logbook grid W37 between 1988 and 2018 was approximately 785 tonnes with a peak in 2000 of approximately 50 tonnes. The recorded catch was less after 2009 than the preceding period between 1997 to 2008 (**Figure 3-3c**).

3.3.1.10 Gold Coast

The Gold Coast SCP region is covered by commercial logbook grids W38, W39 and X39. No commercial net fishing catch is available for logbook grids W39 and X39. Between 1988 and 2018 approximately 112 tonnes of catch was recorded. The very small recorded catch in 2010 appears to be anomalous. Annual catch peaked in 1998 (**Figure 3-4a**).

3.3.1.11 Whitsundays

The Whitsundays covers three reporting grids (024, N23 and N24); a much larger area than the other 10 regions. Like most regions assessed in this report, commercial shark catch rose during the 1990s and peaked in the early 2000s before declining. The total catch in logbook in these logbook grids between 1988 and 2018 was approximately 638 tonnes with a peak in 2003 of approximately 98 tonnes. The decline in catch in the Whitsundays occurred a few years early than a number of other locations considered in this report. The commercial catch of sharks in the Whitsundays has been low since 2005 (**Figure 3-4b**).

3.3.2 Limitations of Data

Since 1988 it has been compulsory for all Queensland commercial fishers to report on catch and effort in logbooks. The spatial (geographic) scale of the recording requirement is 30 min latitude x 30 min longitude grids. As such, these grids do not align with the boundaries of the SCP regions and represent catches over a much larger spatial scale.

There is also a limitation of data access whereby catch reporting by less than five boats in a grid and/or time period is not publicly available. Where catch and effort information are unavailable for a year, this cannot be interpreted as zero catch and effort as catch and effort may have occurred but is not able to be accessed. Hence, the catches presented most likely under represent the actual catches.

Due to the large number of shark species and the difficulty in some instances of differentiating them, recording down to the species level is known to be a limitation. Importantly, these data do not enable identification of trends in the number of "target species" as defined for the SCP and in particular the three major target species of concern (bull whalers, tiger sharks and white sharks).

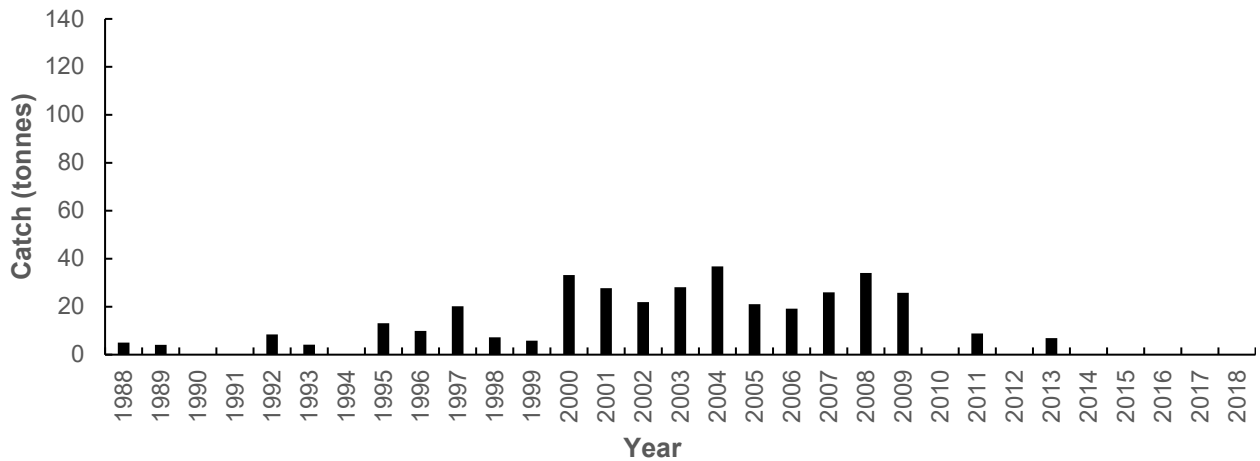
Consequently, as commercially recorded catches include smaller species not implicated in unprovoked bites (and in particular serious bites), changes in the total catch do not represent a change in the potential threat to humans.

Analysis of CPUE has not been undertaken for this report. In the future, if identification of species were improved, analysis of annual and seasonal trends in CPUE could be a reasonable proxy for changes in abundance of target species of concern (bull whalers, tiger sharks and white sharks) in regions.

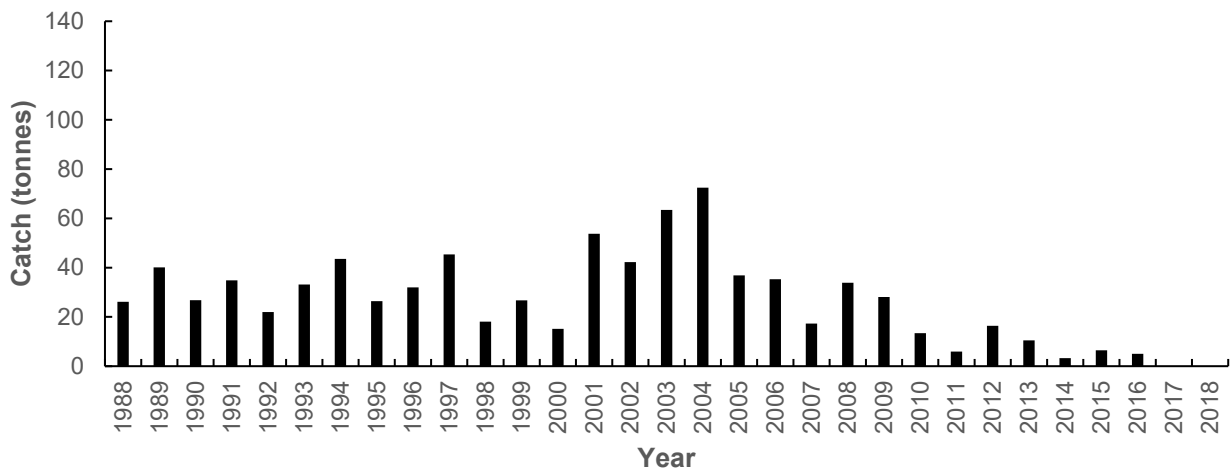
Despite these data limitations, the commercial fishing logbook data represents the best available information on commercial catches and has and will continue to be used for a range of important purposes including monitoring compliance with management measures such as the TACC, fisheries allocations within and between fishing sectors and fisheries and marine park structural adjustment.

3.3.3 Maps and Summaries

a) Cairns



b) Townsville



c) Mackay

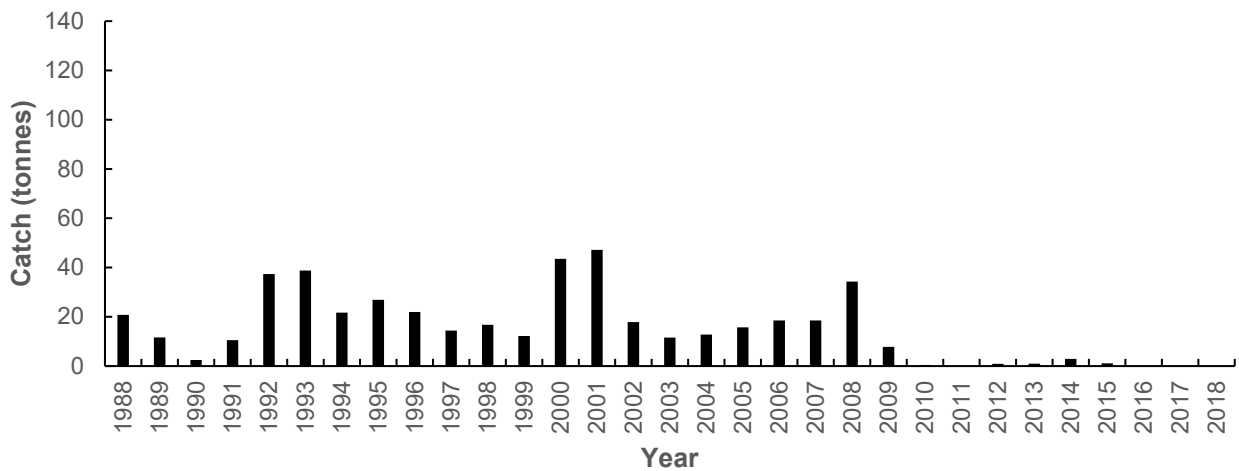
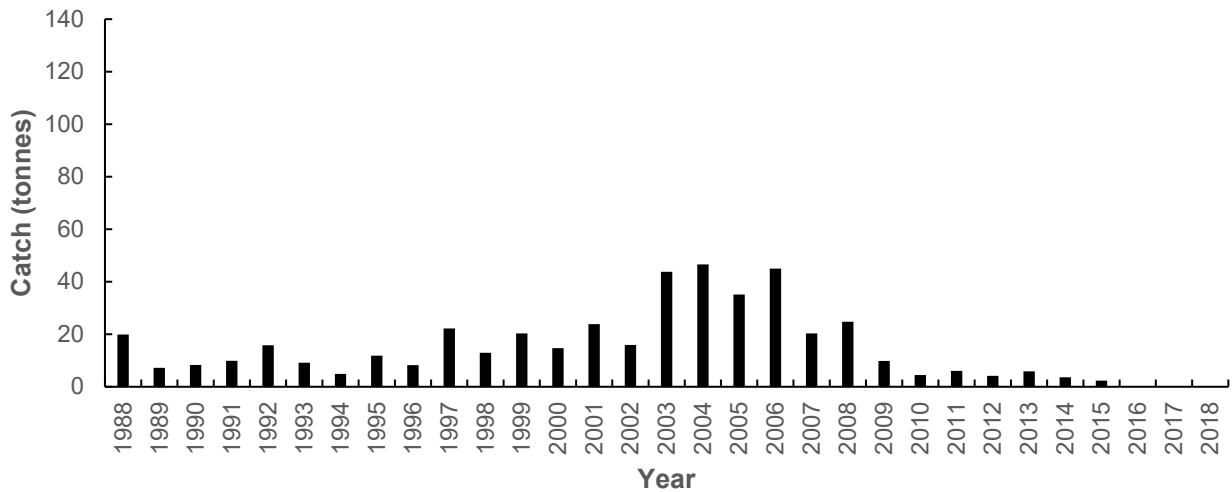
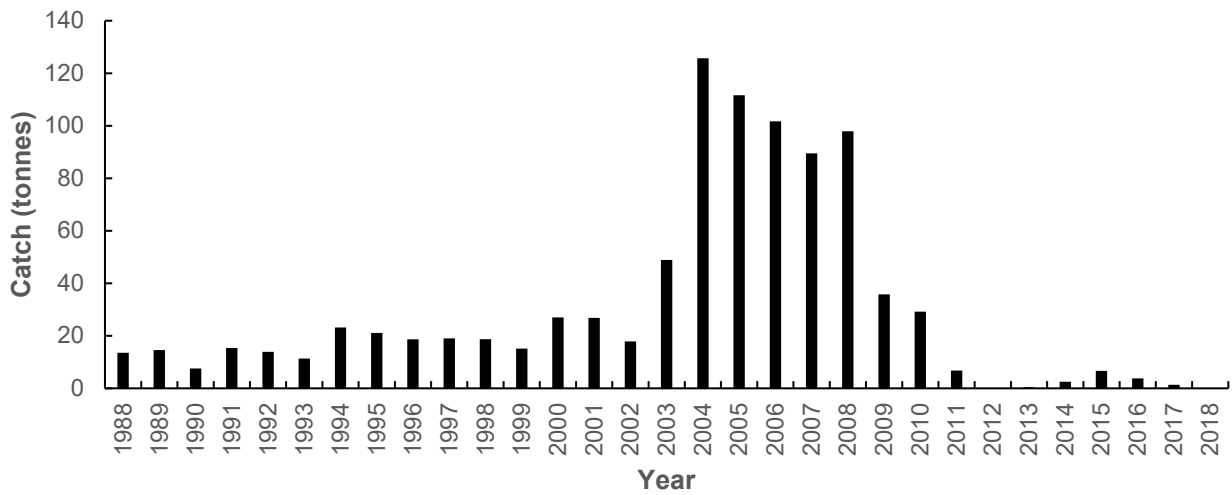


Figure 3-1 Queensland commercial Shark Catch (1998-2018) in a) Cairns, b) Townsville, c) Mackay

a) Capricorn Coast



b) Tannum Sands



c) Woongarra

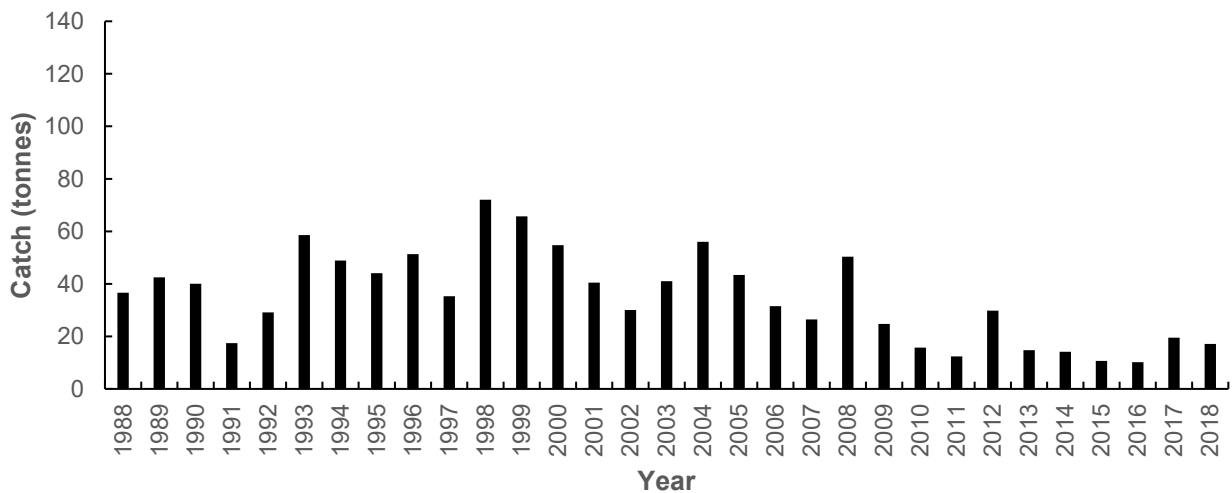
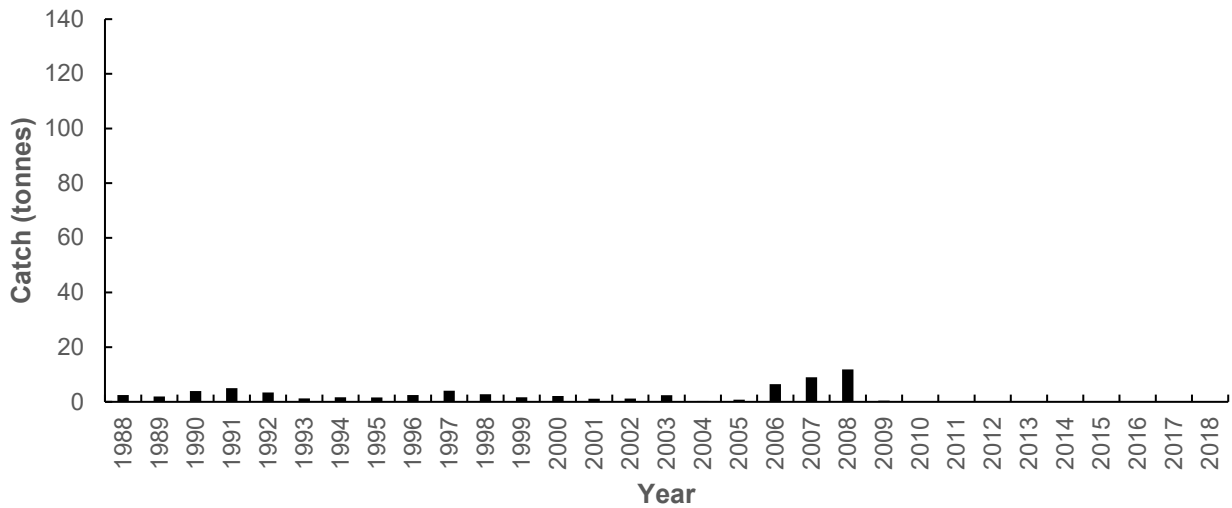
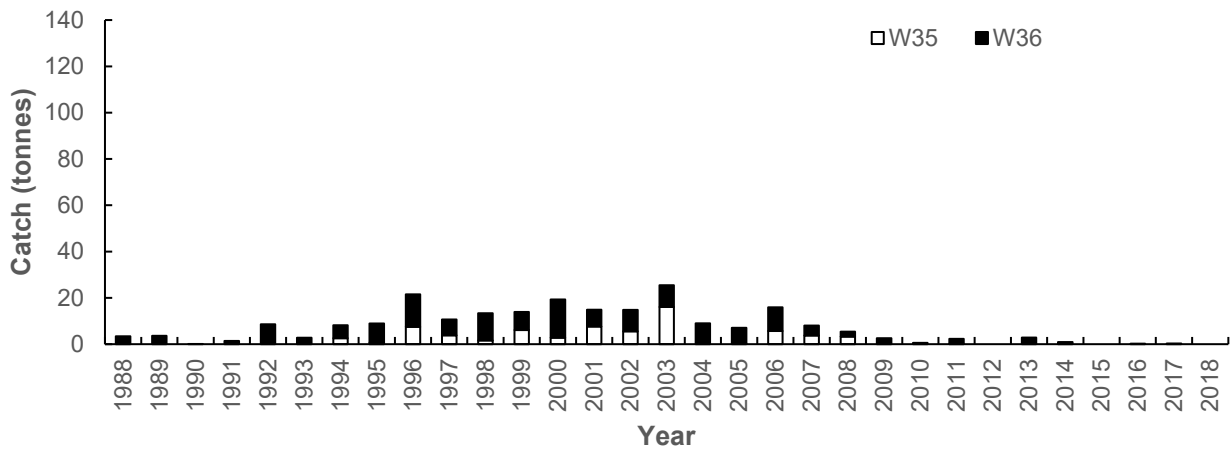


Figure 3-2 Queensland commercial Shark Catch (1998-2018) in a) Capricorn, b) Tannum Sands, c) Woongarra

a) Rainbow Beach



b) Sunshine Coast



c) North Stradbroke Island and the Woorim region of the Sunshine Coast

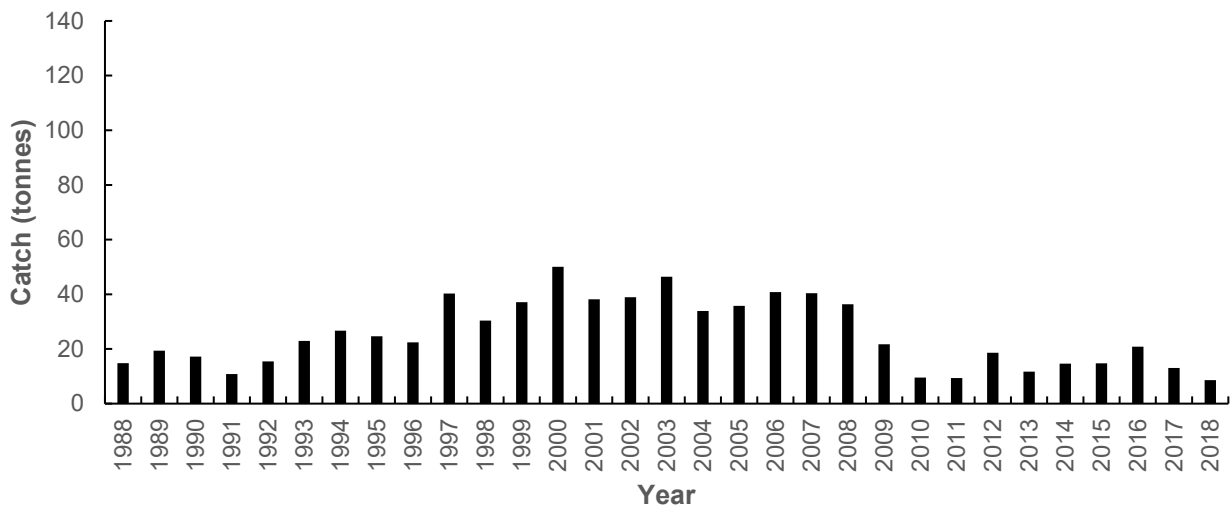
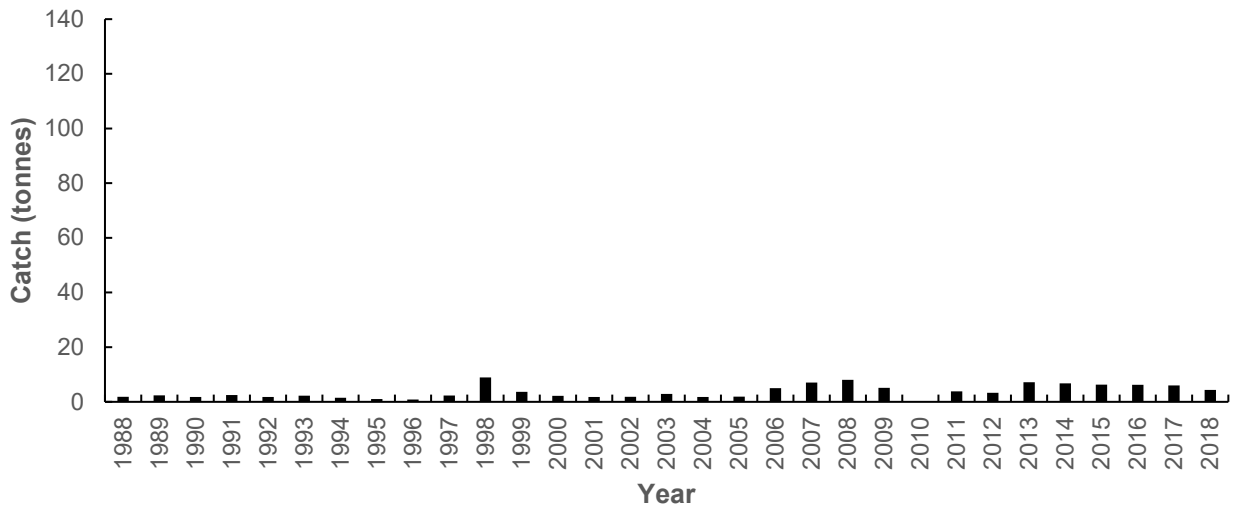


Figure 3-3 Queensland commercial Shark Catch (1998-2018) in a) Rainbow Beach, b) Sunshine Coast, c) North Stradbroke Island and the Woorim region of Sunshine Coast

a) Gold Coast



b) Whitsundays

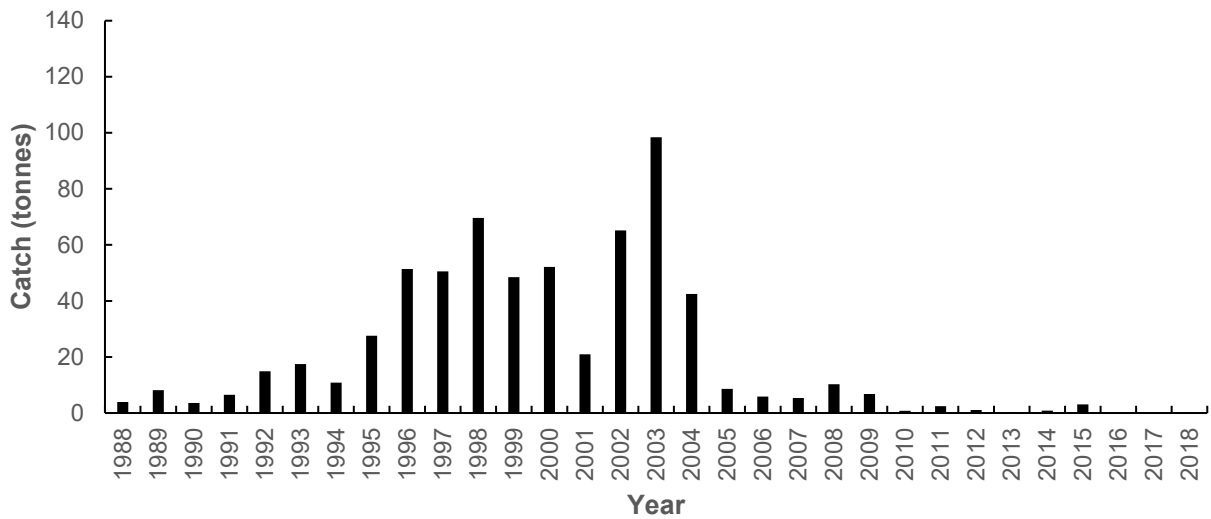


Figure 3-4 Queensland commercial Shark Catch (1998-2018) in a) Gold Coast, b) Whitsundays

3.4 Data Type 4: Incidents in the Australian Shark Attack File

We obtained data from the Australian Shark Attack File, which is curated by the Taronga Conservation Society Australia and is affiliated with the International Shark Attack File (West 2011). We restricted the analysis to fatal and non-fatal bites on the Queensland East Coast between 1847 (the first recorded bite) and 1 December 2019.

3.4.1 Key Findings

3.4.1.1 Queensland East Coast Analyses

In total there are 190 records of unprovoked shark bite on the Queensland East Coast between 1847 and 2019, of which 48 (25%) have been fatal (**Figure 3-5**). This represents a very infrequent source of injury or fatality, however for reasons discussed elsewhere in this report the very low frequency alone does not diminish the importance of understanding and mitigating the phenomenon.

The first recorded unprovoked shark bite post-European arrival in Queensland was in the Brisbane River 1847 and the first fatal unprovoked shark bite was in the Brisbane River in 1862. These early records in the Brisbane River contributed to the desire to construct swimming enclosures in the Brisbane River during the early part of European settlement in Brisbane (Dawson 2012). This highlights how the mitigation of unprovoked shark bite has been an issue since the very early part of European arrival in Queensland.

The period 2017-2019 along with 2002-2006 represent the periods with the greatest frequency of unprovoked bites. Further interpretation of the data and trends over the time period 1847 to 2019 are provided in the regional analysis included in this report. Four fatalities occurred from 1957 to 1961 which contributed to the development of the Shark Control Program in 1962. Seven fatalities occurred from 1947 to 1951, representing the five-year period with the most fatalities.

Yearly analysis between 1962 and 2019 identified 84 bites meeting the criteria for an unprovoked bite as defined previously. The frequency of fatal and non-fatal shark bites in SCP and non-SCP regions is described in **Table 3-12**. Summary information of fatal shark bites in Queensland is included as **Table 3-13**. Only one fatal bite has occurred at an SCP region – at Amity Point (North Stradbroke Island region) in 2006. Another bite occurred in 1977 at a beach which is now included in the SCP (Buddina Beach, Sunshine Coast), but was not a part of the Program at the time the bite occurred. Four of the nine fatal unprovoked bites occurred within the GBR, including the two most recent bites.

Trends through time between 1962 and 2019 for fatal and non-fatal shark bites within and outside of SCP Regions are described in **Figure 3-6**. The last four years represents the longest consecutive time series of three or more bites per year. Overall, 44 of the unprovoked bites occurred in the Great Barrier Reef and 40 have been outside the Reef (**Figure 3-7**). The last three years have seen a larger proportion of bites occurring in the GBR compared with the dataset as a whole.

3.4.1.2 Regional Analyses

3.4.1.2.1 Cairns SCP Region

Prior to the introduction of SCP activities in 1962 there were eight shark bites, five of which were fatal. The first recorded unprovoked shark bite in the Cairns region was in 1942 at Trinity Beach. Fatalities occurred at Ellis Beach, Trinity Beach and Yorkey's Knob. The last unprovoked shark bite, and the only unprovoked shark bite that has occurred in the Cairns region since SCP activities began was in 1972 at Palm Cove Beach (**Figure 3-8**).

3.4.1.2.2 Townsville SCP Region

Prior to the introduction of SCP activities in 1963 there were 12 unprovoked shark bites, eight of which were fatal. The first recorded unprovoked shark bite in the Townsville region was in 1900, but the exact location of this bite is unknown.

The last unprovoked bite, and the only unprovoked shark bite that has occurred in the Townsville SCP region since SCP activities began in 1962 was in 2017 at Magnetic Island. This bite was clearly identified to have been from a cookiecutter shark (*Isistius brasiliensis*) – a very small, uncommon but aggressive species. Given its extremely small size and mode of feeding, it is not a species that can be effectively caught by SCP activities. The last fatality at Kissing Point Beach was in 1951 within a swimming enclosure that had a large hole in it (**Figure 3-9**).

3.4.1.2.3 Sunshine Coast SCP Region

There have been 19 shark bites on Sunshine Coast beaches since one fatality at Caloundra in 1863 (**Figure 3-10**). A further three fatal bites occurred at King's Beach Caloundra in 1948, Noosa Heads in 1961 and Buddina Beach in 1977. While the last fatal bite at Buddina Beach occurred after the implementation of SCP activities in the Sunshine Coast region, at the time of the fatal bite, Buddina Beach was not a location where SCP gear was deployed. Deployment occurred subsequent to that fatal bite. There have been seven bites over the last 20 years, all of which have resulted in minor injuries. Three of these recent bites have occurred at Caloundra, two at Sunshine Beach and one each at Noosa and Peregian Beach.

3.4.1.2.4 Gold Coast SCP Region

There have been 16 unprovoked shark bites in the Gold Coast SCP region, four of which have been fatal (**Figure 3-11**). Six bites have occurred since SCP activities commenced in 1962 but no fatalities have occurred. The first recorded unprovoked bite on Gold Coast beaches occurred at Currumbin in 1934. Two fatal unprovoked shark bites occurred at Kirra Beach on the same day in 1937. Further fatal unprovoked shark bites on Gold Coast beaches occurred at Palm Beach in 1950 and Surfers Paradise in 1958.

3.4.1.2.5 Other SCP locations

North Stradbroke Island, the Capricorn Coast and Tannum Sands were considered together. At North Stradbroke Island, four bites have been recorded with one being fatal. Three have occurred at Point Lookout in 1973, 1976 and 2016 and one fatality occurred at Amity Point in 2006. This fatality represents the only fatal bite at an SCP area. SCP gear was deployed at North Stradbroke Island in 1973. Two bites have occurred in the Capricorn Coast area in the vicinity of Ross Creek in 1916 and 1931 respectively. A single bite occurred in the Tannum Sands/Gladstone area in 1991. SCP gear was deployed at Tannum Sands in 1982.

3.4.1.2.6 Great Barrier Reef – Offshore Reefs and Islands

This analysis considers the offshore reefs and islands in the Great Barrier Reef. It excludes the inshore areas where the SCP operates, and the rivers and creeks that flow into the Great Barrier Reef Marine Park. As such it represents a large area where SCP activities have never occurred. It also excludes the Whitsundays which is treated separately below.

In total there have been 46 unprovoked shark bites, five of which have been fatal (**Figure 3-12**). The first unprovoked bite occurred in 1906 at Lizard Island on a beche-de-mer diver which was fatal. In terms of the other four fatalities, one occurred in 1927 at a reef off Cairns; one occurred in 1934 at Eva Island in the Cardwell region; one occurred in 2004 at Opal Reef and the last occurred in 2014 at Rudder Reef.

Most bites that occurred prior to 1941 were on people diving commercially for trochus or beche-de-mer. Of the 18 unprovoked bites that have occurred in the last 20 years – 10 have been on spearfishers (including the two fatalities), four have been on snorkelers, two on scuba divers and two on swimmers. The geographic range over which the bites have occurred is broad with no clear pattern extending from the Capricorn-Bunker Group to well north of Cairns.

3.4.1.2.7 Inshore Areas of the Queensland East Coast

The first two recorded unprovoked shark bites in Queensland were recorded in the Brisbane River and Moreton Bay in 1847. The Brisbane River has been a relatively frequent location for unprovoked shark bites, particularly during the early days of European colonisation. Overall there have been 19 unprovoked shark bites in the Brisbane River with four of these fatal (**Figure 3-13**). The first recorded shark bite occurred in the Brisbane River in 1862 and was followed by fatalities in 1880, 1901 and 1904. Although the shark species responsible has not been recorded with certainty in most cases, given the location, the bull shark is highly likely to be responsible for all bites as it is the only large shark species consistently present in that location, and in particular the upstream reaches where most bites have occurred. The last unprovoked shark bite in the Brisbane River occurred in 2005.

Fifteen unprovoked shark bites have occurred in the Moreton Bay region (excluding those in the North Stradbroke SCP region). Four of these were fatalities occurring in 1903, 1947, 1959 and 1992. The last fatality was on a surfer at North Point on Moreton Island. The canals, rivers and creeks of the Gold Coast had seven unprovoked shark bites between 1989 and 2003. Three occurred in Mermaid Waters, two in the Nerang River, and one each in Miami Lake and Burleigh Lake. The bites in Miami Lake and Burleigh Lake were fatal. Similar to the Brisbane River, the shark species responsible is not clearly identified in many instances but given the habitat, bull whaler sharks are most likely responsible.

3.4.1.2.8 Whitsundays

The Whitsundays has not been nor is an SCP region. It is considered separately in this report given the recent bites that have occurred. There have been eight recorded unprovoked shark bites in the Whitsundays with one of these fatal. The first recorded unprovoked bite was at Whitehaven Beach in 1997 on a snorkeler. The next two bites were on scuba divers in Whitsunday Passage in 1997, followed by a bite to a snorkeler at Dent Island in 2010. Then there were three bites in 2018 one of which was fatal. All three bites were at Cid Harbour and all three people bitten had entered the water from the back of a boat at anchor. A further two bites occurred in 2019 at Hook Passage on the same day with the same shark implicated.

3.4.2 Limitations of Data

There are uncertainties in a number of the records, in particular the very old records. In some instances, the exact location of where the bite occurred was uncertain, but overall sufficient information was available to assign it to a region. This analysis erred on the side of caution by excluding incidents where it could not be reliably determined from available information that a shark was involved in a bite or where the bite may have occurred after the victim was deceased.

A significant limitation of the dataset in most instances is assigning a species responsible for a bite. Overall, eye witness reports of the species and size of the shark responsible for a bite are frequently unreliable. This is particularly the case where several species potentially responsible reside in a region. In a number of instances though, a species responsible can be inferred if there is only one species likely to be found in that habitat. A clear example of this is the upper reaches of the Brisbane River of the Gold Coast canals where the bull whaler shark is the only likely candidate. Further, forensic analysis of bites has been done to assist with identification of species in some instances, however, this information was not available for this report.

Finally, due to time constraints, we have not undertaken seasonal analysis, but we recommend that this is done in the future to determine whether the risk of shark bite (from some species) is greater in some areas during some months or seasons.

3.4.3 Maps and Summaries

Table 3-12 Fatal and non-fatal unprovoked shark bites within, and outside of, SCP Regions between 1962 and 2019.

	Non-fatal	Fatal
SCP Regions	21	1
Non-SCP Regions	54	8

Table 3-13 Summary of fatal shark bites in Queensland between 1962 and 2019.

Date	Location	Activity	Comments
23 August 1977	Buddina Beach, Sunshine Coast	Floating on an inflatable raft	Bite occurred prior to the installation of SCP gear at that location.
8 April 1990	Dingo Reef offshore of Townsville	Free diving for Trochus	Outside of SCP region
1 October 1992	North Point, Moreton Island	Surfing	Outside of SCP region
16 December 2002	Miami Lake, Gold Coast	Swimming in canal	Outside of SCP region
2 August 2003	Burleigh Lake, Gold Coast	Swimming in canal	Outside of SCP region
11 December 2004	Opal Reef offshore of Port Douglas	Spearfishing	Outside of SCP region
7 January 2006	Amity Point, North Stradbroke Island	Swimming from beach	Within SCP area and with SCP drumlines very close by.
15 December 2014	Rudder Reef offshore of Port Douglas	Spearfishing	Outside of SCP region
5 November 2018	Cid Harbour, Whitsundays	Swimming from anchored boat	Outside of SCP region

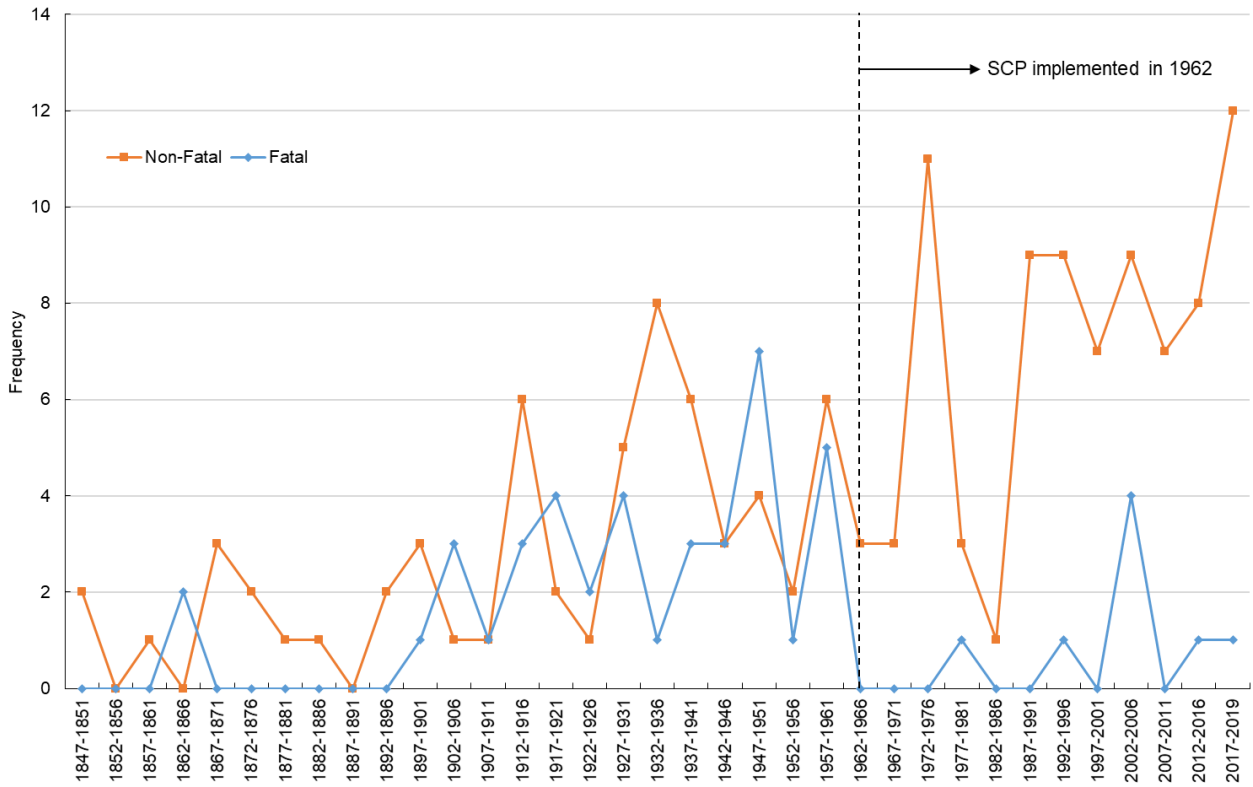


Figure 3-5 Number of non-fatal and fatal shark bites on the Queensland East Coast between 1847 to 2019.

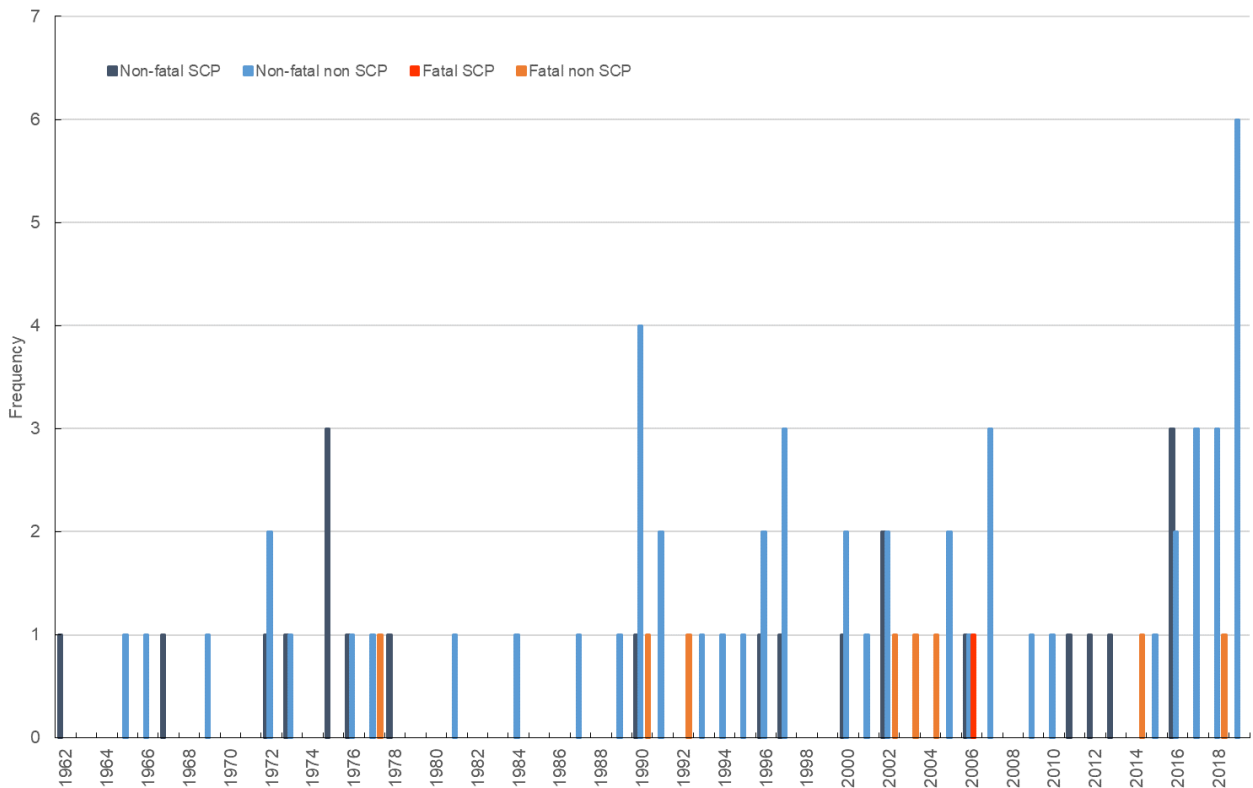


Figure 3-6 Number of fatal and non-fatal shark bites within, and outside of, SCP Regions between 1962 to 2019.

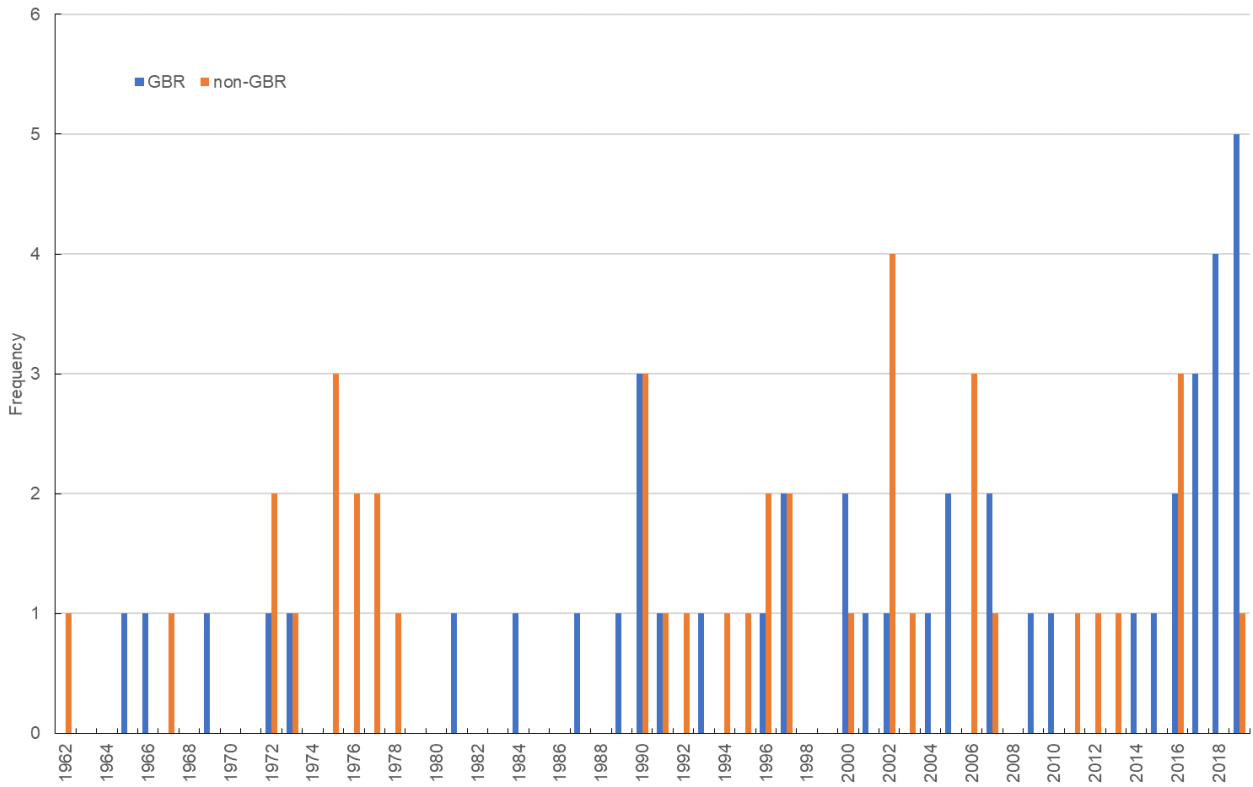


Figure 3-7 Number of shark bites within, and outside of, the Great Barrier Reef area between 1962 to 2019.

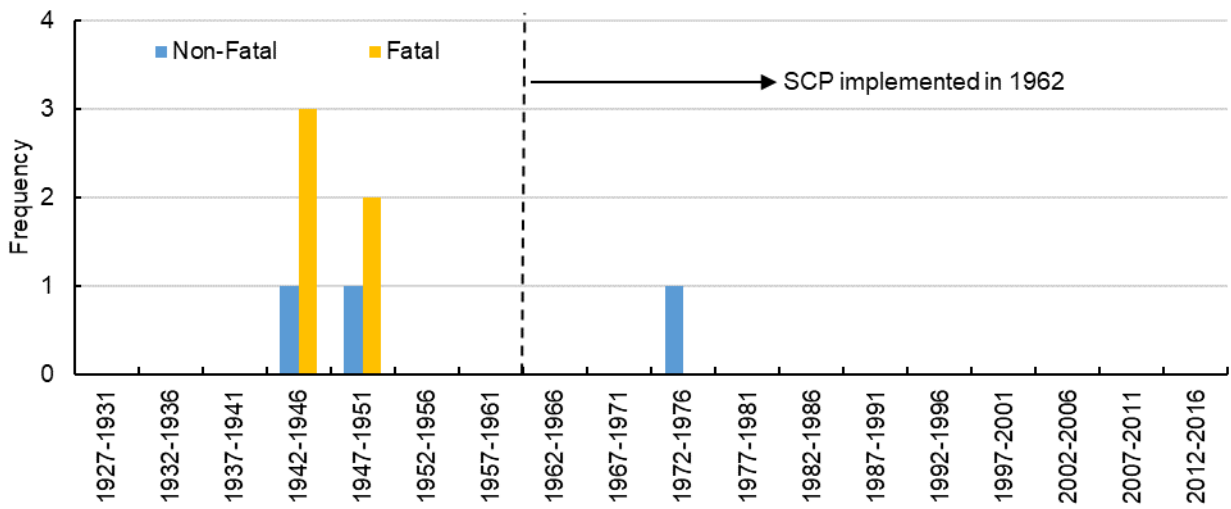


Figure 3-8 Number of unprovoked shark bites within the Cairns SCP Region since 1927.

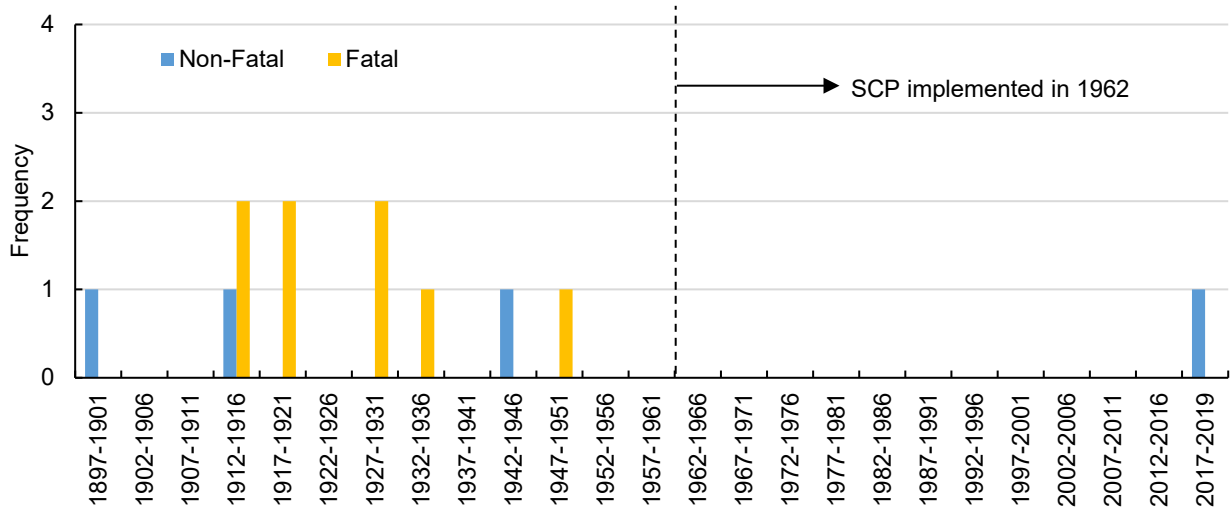


Figure 3-9 Number of unprovoked shark bites within the Townsville SCP Region since 1897.

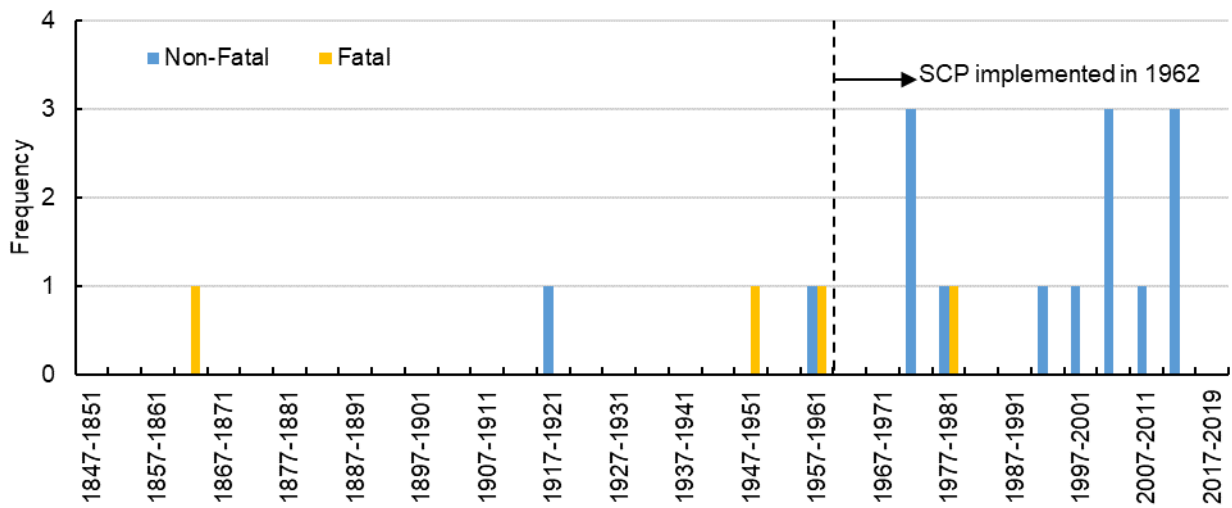


Figure 3-10 Number of unprovoked shark bites within the Sunshine Coast SCP Region since 1847.

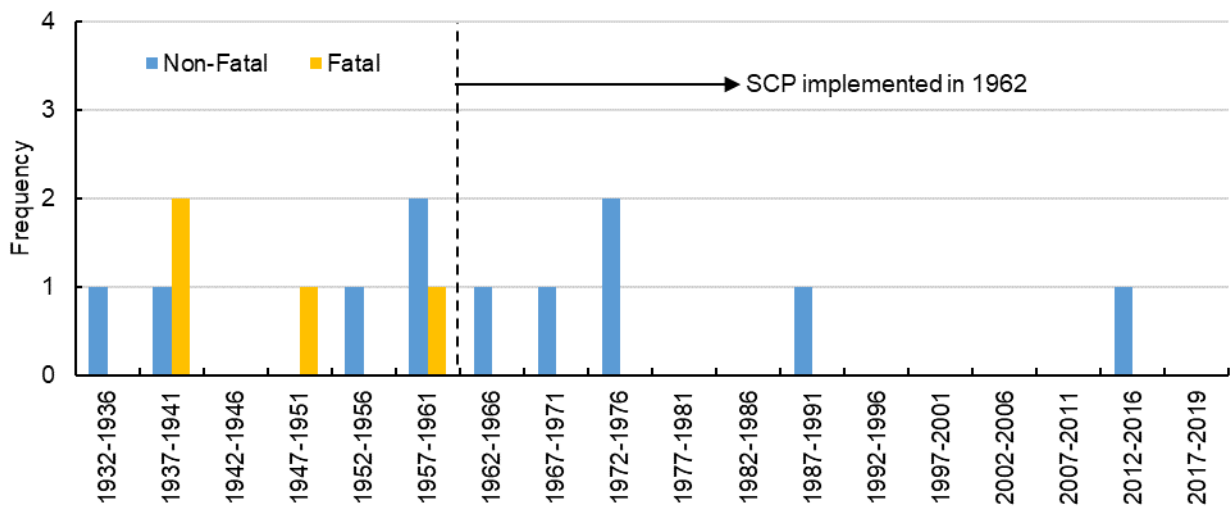


Figure 3-11 Number of unprovoked shark bites within the Gold Coast SCP Region since 1932.

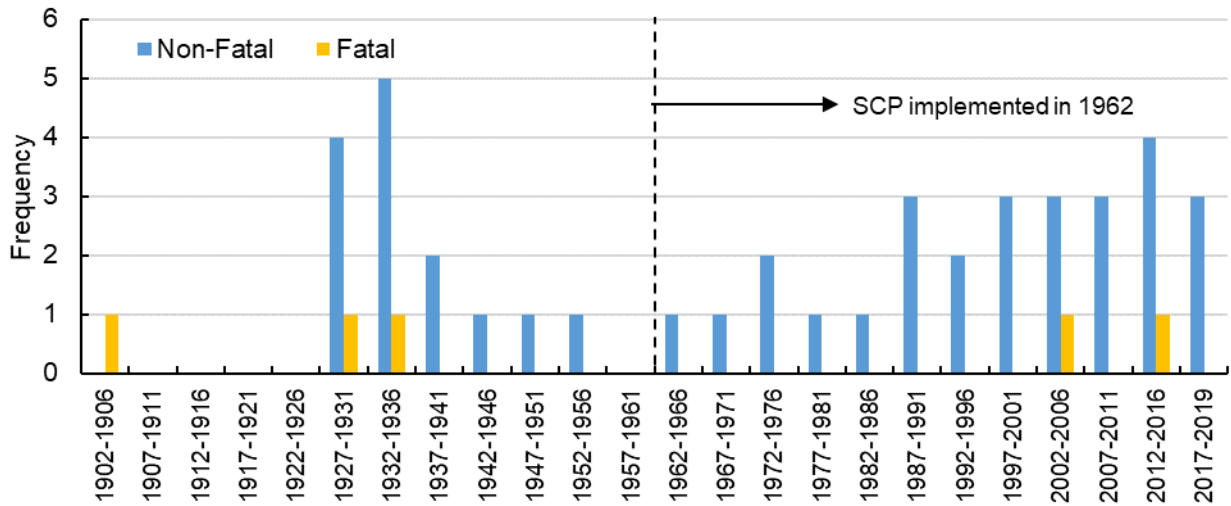


Figure 3-12 Number of unprovoked shark bites within the Great Barrier Reef (offshore reefs and islands areas) since 1902.

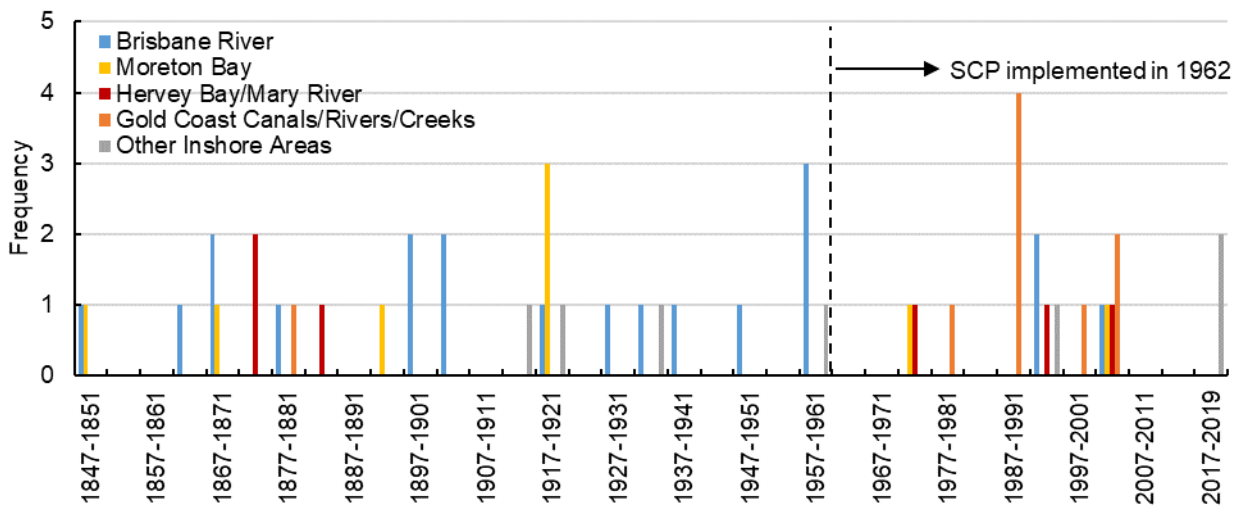


Figure 3-13 Number of unprovoked shark bites within inshore areas along the Queensland East Coast since 1847.

3.5 Data Type 5: Beach User Statistics

3.5.1 Key Findings

Information about beach users at patrolled beaches for the 2018/19 period (July to June) was supplied by Surf Life Saving Queensland (SLSQ). **Table 3-14** shows the number of beach users by category (total for the period and daily averages) at each patrolled SCP beach. Beach user data combines information collected by Australian Lifeguard Service (ALS) professional lifeguards (who patrol through the week, and in some places 365 days per year) and surf club volunteers (who generally patrol on weekends between September and May). The absence of data for a particular beach indicates that either no data were available or that it is not patrolled. Further, beaches within the Gold Coast Region are patrolled by both professional lifeguards employed by Gold Coast City Council and club volunteers, although only club volunteer data were available for this report.

Noosa Beach (Sunshine Coast Region) had the most beach visitations during 2018/19 (**Table 3-14**). Mooloolaba Beach and Alexandra Headland (Sunshine Coast Region) were well represented with a total of 1,394,192 and 1,094,041 beach visitors, respectively. These beaches also had the most average daily visitations. Beaches from the Cairns, Townsville, Mackay, Capricorn Coast and Tannum Sands regions had fewer visitors per day compared with beaches within all regions further south.

Mooloolaba Beach had the greatest average number of swimmers between the flags, with 1,051 people per day, followed by Noosa Beach (834 people per day) and Alexandra Headland (529 people per day). Noosa Beach had the greatest daily average of swimmers outside of the flags (802 swimmers per day), compared with Currimundi Beach and Mooloolaba Beach (399 and 226 swimmers per day, respectively). Generally, there were more swimmers within the flags than outside of the flags although the ratio between the two varied among beaches. For example, at Noosa there were similar proportions of swimmers within and outside the flags, whereas at other beaches the proportion of swimmers outside of the flags could be as small as < 5% of the total.

Noosa Beach, Alexandra Headland and Rainbow Bay had the most craft users on a daily basis with 697, 681 and 508 craft users per day, respectively (**Table 3-14**). Craft can include a mixture of mostly non-motorised watercraft such as surfboards or paddle boards. Many other Sunshine Coast beaches also had large numbers, including at Maroochydore, Wurtulla Beach and Currimundi Beach with 365, 251 and 237 craft users per day, respectively. At nearly all beaches in the Woongarra Coast, Rainbow Beach, Sunshine Coast, North Stradbroke Island and Gold Coast regions, the average numbers of craft users per day were in the 10s or 100s. In all other regions to the north, the average numbers of craft users at most beaches were generally much less and only greater than 11 per day at a few beaches in the Townsville/Magnetic Is Region.

3.5.2 Limitations of Data

Beaches within the Gold Coast SCP Region have data available only from club volunteers, these data would severely under-estimate annual beach usage.

Assumptions were made when calculating beach user numbers or the number of days patrolled for each beach. These included:

- Where a beach was patrolled for 365 days of the year;
 - only ALS lifeguard data was used (365 days);
- Where beaches were not patrolled for 365 days of the year;
 - The number of patrolled days (either weekdays and/or weekends) was calculated within the club volunteer patrol period of 22 September 2018 to 6 May 2019;
 - Club volunteers were considered to only patrol on the weekends in the period stated above (66 days);
 - ALS lifeguards only patrolled through the week in the period stated above (161 days);
 - If data were available for both ALS lifeguards and club volunteers, data were added to give a combined data set for those beaches (227 days).
- In some instances, data have been collected for a particular area of a beach. Where this occurred, data for each area were added to provide the data set for the entire beach. This included:
 - The Strand Net 1 and The Strand Net 2 combined for The Strand (Townsville)
 - Coolangatta and Coolangatta and Tweed Heads combined for Coolangatta (Gold Coast)

- No data appear to be available at different times during the day, or when the flags are removed and/or lifeguards are not on duty. These times could represent crucial times of potential high risk to beach users.
- The number of shark sightings by lifeguards, including distance from shore, number of sharks, lifeguard response to sightings, presence of potential prey fishes and shark alarms requiring users to vacate the water, etc, was not available for this report.

3.5.3 Maps and Summaries

Table 3-14 Number of beach users (total and daily averages) between July 2018 and June 2019 for beaches within the SCP that are patrolled by SLSQ lifeguards and/or volunteers.

REGION	BEACH	Time of year patrolled	No. of days patrolled	TOTAL					DAILY AVERAGE				
				Swimmers		Craft users	On beach	Total Visitations	Swimmers		Craft users	On beach	Total Visitations
				Between flags	Outside flags				Between flags	Outside flags			
Cairns	Ellis Beach	Sep to May	227	8,184	2,945	1,204	18,723	31,056	36.05	12.97	5.30	82.48	136.81
	Buchans Beach												
	Palm Cove	All year	365	33,474	4,613	2,278	68,089	108,454	91.71	12.64	6.24	186.55	297.13
	Clifton Beach	Sep to May	161	4,993	170	200	11,503	16,866	31.01	1.06	1.24	71.45	104.76
	Trinity Beach	All year	365	37,338	6,321	1,383	72,929	117,971	102.30	17.32	3.79	199.81	323.21
	Yorkeys Knob Beach	All year	365	20,807	1,919	2,456	83,150	108,332	57.01	5.26	6.73	227.81	296.80
	Holloways Beach	Sep to May	161	6,473	495	431	15,788	23,187	40.20	3.07	2.68	98.06	144.02
Townsville	Horseshoe Bay	All year	365	52,987	2,854	8,920	129,868	194,629	145.17	7.82	24.44	355.80	533.23
& Magnetic Island	Radical Bay												
	Florence Bay												
	Alma Bay	Sep to May	227	53,425	6,366	5,764	112,323	177,878	235.35	28.04	25.39	494.81	783.60
	Nelly Bay												
	Picnic Bay	Sep to May	66	1,287	248	378	1,819	3,732	19.50	3.76	5.73	27.56	56.55
	Pallarenda Beach	Sep to May	161	4,172	151	1,135	8,640	14,098	25.91	0.94	7.05	53.66	87.57
	The Strand ¹	All year	365	48,470	3,827	8,585	109,693	170,575	132.79	10.48	23.52	300.53	467.33
Mackay	Bucasia Beach	Sep to May	161	1,204	322	140	5,102	6,768	7.48	2.00	0.87	31.69	42.04
	Eimeo Beach	Sep to May	227	6,142	1,478	1,008	16,696	25,324	27.06	6.51	4.44	73.55	111.56
	Blacks Beach												
	Lamberts Beach	Sep to May	161	2,556	1,633	448	6,474	11,111	15.88	10.14	2.78	40.21	69.01
	Sth Lamberts Beach												
	Harbour Beach	All year	365	7,664	1,587	1,362	23,572	34,185	21.00	4.35	3.73	64.58	93.66
Capricorn Coast	Farnborough Beach												
	Yeppoon Beach	Sep to May	227	4,822	2,327	1,075	9,177	17,401	21.24	10.25	4.74	40.43	76.66
	Cootee Bay												
	Lammermoor Beach												
	Kemp Beach												
	Mullambin Beach												
	Tanby Point												
	Fishermans Beach												
	Emu Park Beach	Sep to May	227	10,041	1,932	2,690	10,724	25,387	44.23	8.51	11.85	47.24	111.84
Tannum Sands	Tannum Sands Beach	Sep to May	227	10,129	3,051	1,620	17,601	32,401	44.62	13.44	7.14	77.54	142.74

Table 3-14 cont.

REGION	BEACH	Time of year patrolled	No. of days patrolled	TOTAL					DAILY AVERAGE				
				Swimmers		Craft users	On beach	Total Visitations	Swimmers		Craft users	On beach	Total Visitations
				Between flags	Outside flags				Between flags	Outside flags			
Woongarra Coast (Bundaberg)	Oaks Beach	Sep to May	161	11,633	197	732	15,241	27,803	72.25	1.22	4.55	94.66	172.69
	Nielsen Park Beach	Sep to May	161	19,747	1,038	4,421	17,332	42,538	122.65	6.45	27.46	107.65	264.21
	Bargara Beach Kelly's Beach	Sep to May	161	43,060	8,365	7,022	60,681	119,128	267.45	51.96	43.61	376.90	739.93
Rainbow Beach	Rainbow Beach	Sep to May	227	86,312	14,997	16,402	244,200	361,911	380.23	66.07	72.26	1075.77	1594.32
Sunshine Coast	Noosa	All year	365	304,513	292,604	254,557	1,718,458	2,570,132	834.28	801.65	697.42	4708.10	7041.46
	Sunshine Beach	All year	365	66,042	13,055	39,120	227,929	346,146	180.94	35.77	107.18	624.46	948.35
	Sunrise Beach	Sep to May	161	14,526	5,764	12,638	46,136	79,064	90.22	35.80	78.50	286.56	491.08
	North Peregian Beach	Sep to May	161	14,718	2,305	6,465	33,129	56,617	91.42	14.32	40.16	205.77	351.66
	Glen Eden Beach												
	Peregian Beach	All year	365	51,658	8,583	13,992	133,534	207,767	141.53	23.52	38.33	365.85	569.22
	Coolum Beach	All year	365	72,815	14,462	40,359	255,333	382,969	199.49	39.62	110.57	699.54	1049.23
	Yaroomba	Sep to May	161	7,864	2,363	5,504	17,269	33,000	48.84	14.68	34.19	107.26	204.97
	Hyatt Resort												
	Marcoola Beach	Sep to May	227	28,999	9,501	13,113	119,618	171,231	127.75	41.85	57.77	526.95	754.32
	Surfair Resort												
	Mudjimba Beach	All year	365	65,828	15,376	29,071	350,085	460,360	180.35	42.13	79.65	959.14	1261.26
	Twin Waters	All year	365	62,932	12,684	31,424	341,292	448,332	172.42	34.75	86.09	935.05	1228.31
	Maroochydore Beach	All year	365	114,634	33,644	133,259	306,653	588,190	314.07	92.18	365.09	840.15	1611.48
	Alexandra Headland	All year	365	192,932	51,021	248,567	601,521	1,094,041	528.58	139.78	681.01	1648.00	2997.37
	Mooloolaba Beach	All year	365	383,476	82,311	82,873	845,532	1,394,192	1050.62	225.51	227.05	2316.53	3819.70
Point Cartwright													
Buddina Beach	Sep to May	161	25,159	7,037	23,576	76,665	132,437	156.27	43.71	146.43	476.18	822.59	
Wurtulla Beach	Sep to May	161	22,860	11,432	40,360	60,413	135,065	141.99	71.01	250.68	375.24	838.91	
Currimundi Beach	Sep to May	161	35,536	64,214	38,197	131,606	269,553	220.72	398.84	237.25	817.43	1674.24	
Moffat Beach													
Kings Beach (Caloundra)	All year	365	138,368	29,818	45,929	360,397	574,512	379.09	81.69	125.83	987.39	1574.01	
Woorim Beach (Bribie Island)	Sep to May	227	49,772	11,069	3,874	91,029	155,744	219.26	48.76	17.07	401.01	686.10	
North Stradbroke Island	Amity Point												
	Flinders Beach												
	Cylinder Beach	All year	365	90,585	16,379	25,149	176,741	308,854	248.18	44.87	68.90	484.22	846.18
Main Beach (Ocean Beach)	All year	365	31,397	9,659	29,656	97,691	168,403	86.02	26.46	81.25	267.65	461.38	

Table 3-14 cont.

REGION	BEACH	TOTAL											
		Time of year patrolled	No. of days patrolled	Swimmers		Craft users	On beach	Total Visitations	DAILY AVERAGE				
				Between flags	Outside flags				Swimmers	Craft users	On beach	Total Visitations	
							Between flags	Outside flags					
Gold Coast ³	Sheraton												
	Main Beach												
	Narrowneck												
	Staghorn Avenue												
	Elkhorn Avenue												
	Surfers Paradise	Sep to May	66	33,409	2,036	4,650	144,587	184,682	506.20	30.85	70.45	2190.71	2798.21
	Northcliffe	Sep to May	66	6,363	837	2,614	18,644	28,458	96.41	12.68	39.61	282.48	431.18
	Broadbeach	Sep to May	66	7,486	2,220	3,781	27,772	41,259	113.42	33.64	57.29	420.79	625.14
	Kurrawa	Sep to May	66	16,086	985	1,665	40,763	59,499	243.73	14.92	25.23	617.62	901.50
	Mermaid Beach	Sep to May	66	5,773	2,036	3,923	21,577	33,309	87.47	30.85	59.44	326.92	504.68
	Nobbys Beach	Sep to May	66	6,133	1,768	3,415	18,735	30,051	92.92	26.79	51.74	283.86	455.32
	Miami Beach	Sep to May	66	8,746	2,138	5,462	30,892	47,238	132.52	32.39	82.76	468.06	715.73
	North Burleigh	Sep to May	66	11,965	3,854	4,768	47,468	68,055	181.29	58.39	72.24	719.21	1031.14
	Burleigh Beach	Sep to May	66	29,567	7,700	13,846	84,695	135,808	447.98	116.67	209.79	1283.26	2057.70
	Tallebudgera	Sep to May	66	6,574	4,278	4,439	25,705	40,996	99.61	64.82	67.26	389.47	621.15
	Palm Beach	Sep to May	66	6,183	3,282	3,429	17,230	30,124	93.68	49.73	51.95	261.06	456.42
	Currumbin	Sep to May	66	7,930	2,948	2,912	21,909	35,699	120.15	44.67	44.12	331.95	540.89
Tugun	Sep to May	66	5,565	2,108	3,322	14,717	25,712	84.32	31.94	50.33	222.98	389.58	
Bilinga	Sep to May	66	4,711	1,931	1,409	10,796	18,847	71.38	29.26	21.35	163.58	285.56	
North Kirra	Sep to May	66	6,759	2,841	2,472	22,764	34,836	102.41	43.05	37.45	344.91	527.82	
Kirra	Sep to May	66	16,918	7,344	8,501	41,063	73,826	256.33	111.27	128.80	622.17	1118.58	
Coolangatta ²	Sep to May	66	33,668	9,152	13,689	123,320	179,829	510.12	138.67	207.41	1868.48	2724.68	
Rainbow Bay	Sep to May	66	25,903	12,565	33,527	63,430	135,425	392.47	190.38	507.98	961.06	2051.89	

1 Data from Strand Net 1 and Strand Net 2 have been combined

2 Data from Coolangatta and Coolangatta and Tweed Heads have been combined

3 No data available for beaches patrolled by Gold Coast City Council Lifeguards. Data only available from Club Volunteer Lifeguards as shown

3.6 Data Type 6: Population and Visitor Statistics

3.6.1 Key Findings

3.6.1.1 Populations

Information about resident populations downloaded from the Australian Bureau of Statistics (ABS) indicated that the Sunshine and Gold Coast, apart from Bribie Island (southern Sunshine Coast), are the most densely populated SCP regions (**Figure 3-16**). These also have the most SCP beaches and coverage of gear. Beaches with SCP gear within regions with the smallest overall population densities (i.e. Rainbow Beach, North Stradbroke Island and Magnetic Island (Townsville)), are strategically located where the concentrations of residents are greatest surrounding areas (**Figure 3-14** to **Figure 3-15**).

Tannum Sands, although not a densely populated area itself, is only 15 km from the regional centre of Gladstone (**Figure 3-15**). Given the town of Gladstone is situated in a muddy estuary that is not amenable to water users, the population residing in Gladstone would tend to travel to Tannum Sands to use the beach.

The Whitsundays (**Figure 3-17**) is also not densely populated but the islands are popular destinations for water users living on the mainland and for tourists.

3.6.1.2 Visitors

A large proportion of the beach users described in **Section 3.5** for SCP patrolled beaches would be expected to be visitors but information is not available as to the proportions. For the popular tourist destinations of Magnetic Island (within the Townsville SCP) and the Whitsundays at least, visitors would be expected to make up a greater proportion of beach users than locals. As already indicated, the Whitsundays has no shark protection gear or patrolled areas. The only publicly available information about potential water user densities within various locations within the Whitsundays are the 'Settings' zones for the region given in the Whitsundays Plan of Management (WPoM). Settings range from 'low use' to 'intensive' and also include a 'protected' zone (see **Figure 3-30** in **Section 3.12**). Areas of 'Intense' use occur around the islands which have resorts and 'high use' areas include Cid Harbour, Whitehaven Beach and the southern side of Whitsunday Island. Based on the settings it would appear that usage is generally less on the eastern nearshore areas of Hook and Whitsunday Islands than their western and southern nearshore areas (Whitehaven Beach being the exception).

The environmental management charge (EMC) is a charge associated with most commercial activities, including tourism operations, non-tourist charter operations, and facilities, operating under a permit issued by the Great Barrier Reef Marine Park Authority (GBRMPA). This information held by GBRMPA would be a source of visitation information at the scale of bays within the Whitsundays but it was unable to be provided for use in this report due to privacy rules.

3.6.2 Limitations of Data

Although Settings zoning given in the WPoM for the Whitsundays is an indicator of visitation density and relative differences in the potential amount of water users, it is designed primarily for management and so would not necessarily reflect actual visitation rates. Each mapped Settings zone is also broad. It is unlikely that water users would be spread throughout any of the mapped areas and more likely that they are clustered within particular parts of each mapped area. Finally, the users referred to in the Settings zoning are a broad group of visitors that would include non-water users (i.e. people visiting the area that do not enter the water to swim or use a watercraft) as well as water users (swimmers, snorkelers and watercraft users). Given the proportions of water users and non-water users in each area are not known, the Settings mapping has limited value.

3.6.3 Maps and Summaries

See over

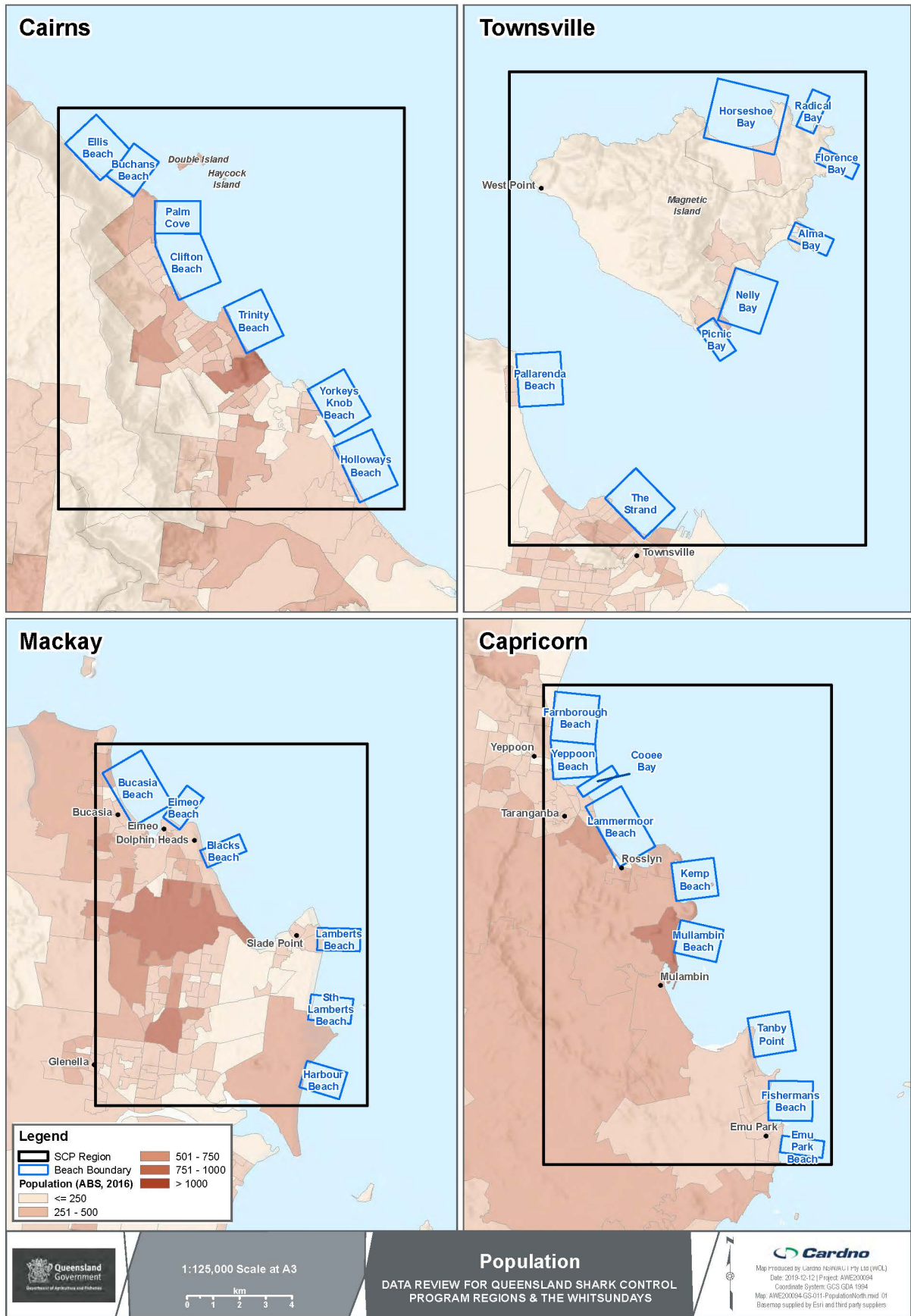


Figure 3-14 Population in the SCP regions of Cairns, Townsville, Mackay & Capricorn Coast.

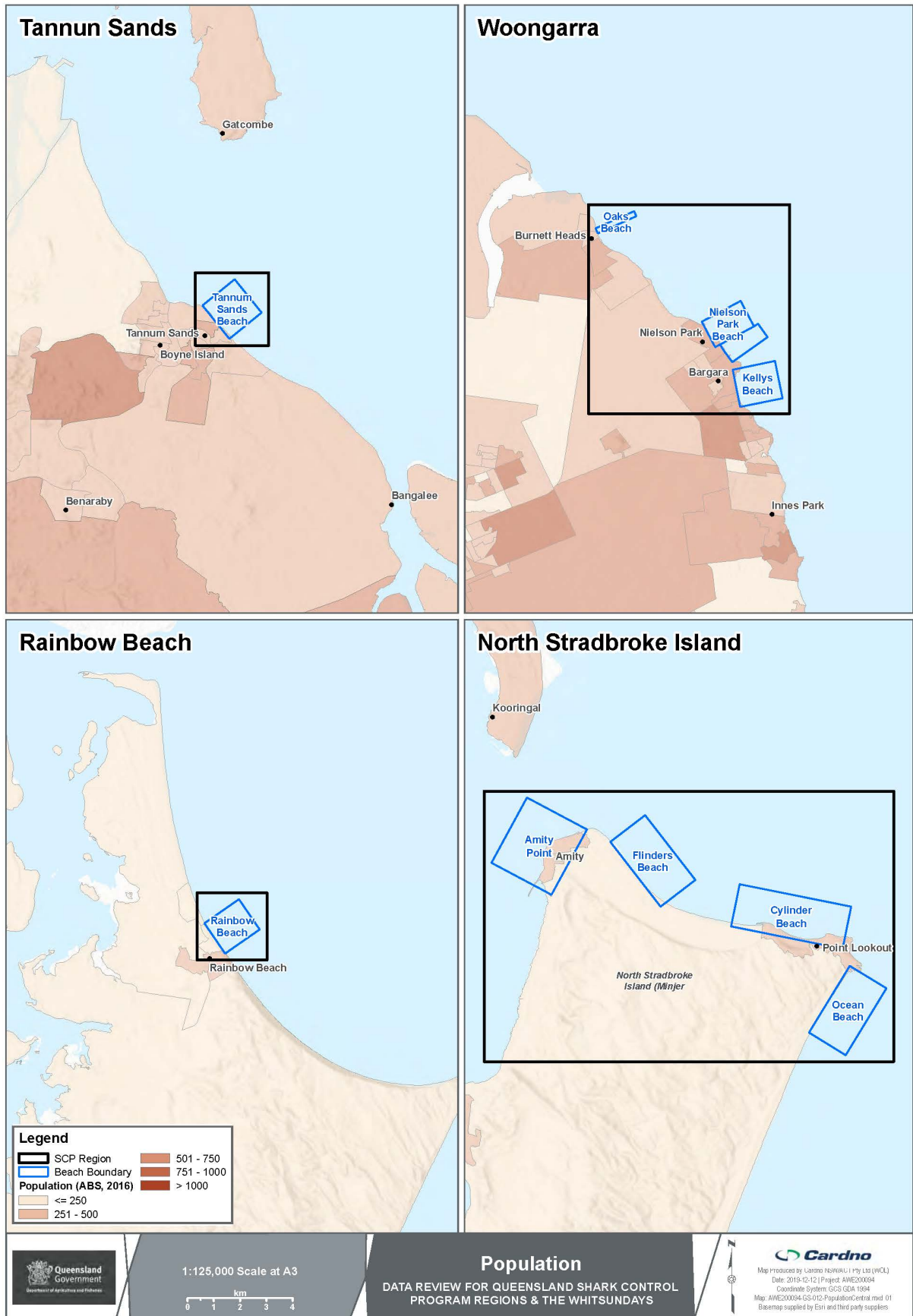


Figure 3-15 Population in the SCP regions of Tannun Sands, Woongarra, Rainbow Beach & North Stradbroke Island.

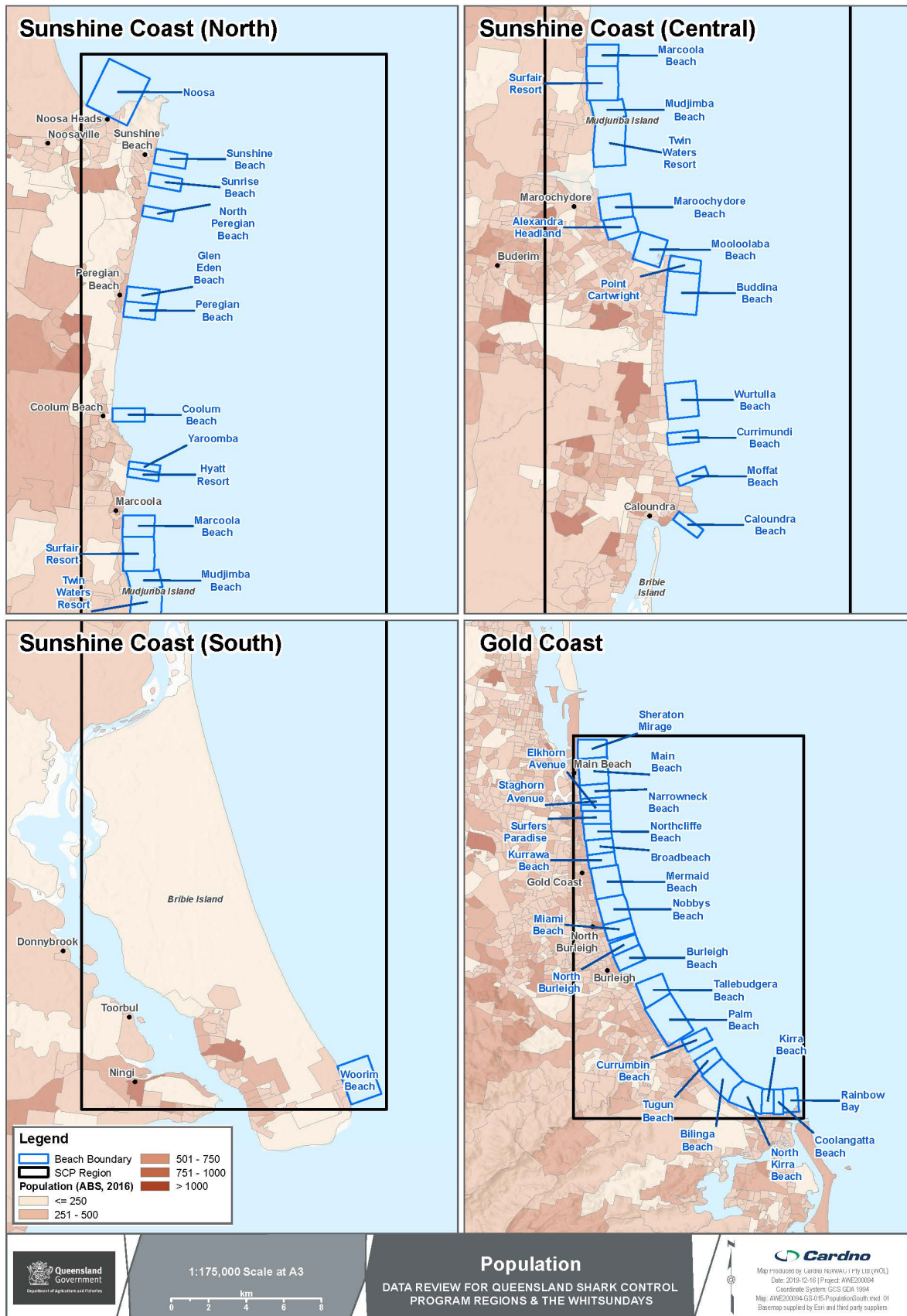


Figure 3-16 Populations in the SCP regions of Sunshine Coast and Gold Coast.

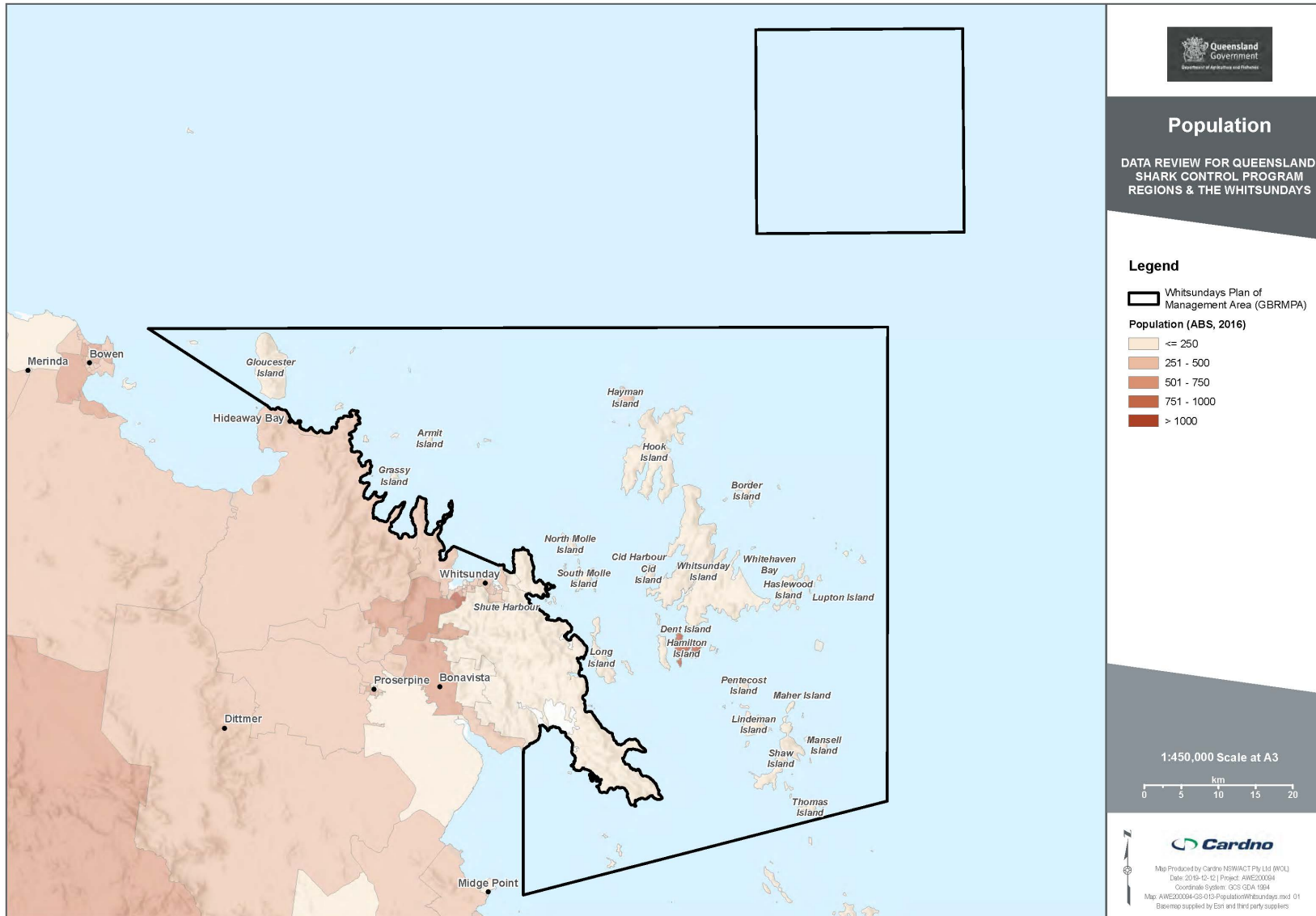


Figure 3-17 Population in the Whitsundays

3.7 Data Type 7: Swimming Enclosures/Stinger Nets

3.7.1 Key Findings

Of the 86 beaches within the SCP, 11 of these beaches have swimming enclosures/stinger nets associated with them (**Table 3-15**). The majority of these beaches are within the Cairns and Townsville/Magnetic Island SCP Regions. In addition to the 11 beaches mentioned above, a further 18 beaches not included in the SCP also have swimming enclosures/stinger nets installed (**Table 3-16**). These non-SCP beaches stretch from Four Mile Beach at Port Douglas, down to Southport on the Gold Coast.

It is understood that all stinger net enclosures north of Gladstone are deployed for the peak stinger season (November to May). Nets in this area are generally deployed by the 1st November and removed by mid-May, dependant on *Chironex fleckerii* (box jellyfish) stings/captures and consensus from Uninet (i.e. the operator), SLSQ and relevant councils. Nets to the south of Gladstone remain deployed for 365 days of the year.

None of the bays within the Whitsundays islands have stinger nets but there are nets at two of the mainland beaches (**Table 3-16**).

3.7.2 Limitations of Data

Only nets operated/maintained by Uninet are presented in this report.

3.7.3 Maps and Summaries

Table 3-15 SCP beaches that have swimming enclosures/stinger nets installed. Green = nets installed, black = nets not installed.

REGION	BEACH	REGION	BEACH
Cairns	Ellis Beach	Sunshine Coast	Noosa
	Buchans Beach		Sunshine Beach
	Palm Cove		Sunrise Beach
	Clifton Beach		North Peregian Beach
	Trinity Beach		Glen Eden Beach
	Yorkeys Knob Beach		Peregian Beach
	Holloways Beach		Coolumb Beach
Townsville	Horseshoe Bay		Yaroomba
& Magnetic Island	Radical Bay		Hyatt Resort
	Florence Bay		Marcoola Beach
	Alma Bay		Surfair Resort
	Nelly Bay		Mudjimba Beach
	Picnic Bay		Tw in Waters
	Pallarenda Beach		Maroochydore Beach
	The Strand		Alexandra Headland
Mackay	Bucasia Beach		Mooloolaba Beach
	Eimeo Beach		Point Cartwright
	Blacks Beach		Buddina Beach
	Lamberts Beach		Wurtulla Beach
	Sth Lamberts Beach		Currimundi Beach
	Harbour Beach		Moffat Beach
Capricorn Coast	Farnborough Beach		Kings Beach (Caloundra)
	Yeppoon Beach		Woorim Beach (Bribie Island)
	Cooee Bay	North Stradbroke Island	Amity Point
	Lammermoor Beach		Flinders Beach
	Kemp Beach		Cylinder Beach
	Mullambin Beach		Main Beach (Ocean Beach)
Tanby Point	Gold Coast	Sheraton	
Fishermans Beach		Main Beach	
Emu Park Beach		Narrow neck	
		Staghorn Avenue	
Tannum Sands	Tannum Sands Beach		Elkhorn Avenue
Woongarra Coast (Bundaberg)	Oaks Beach		Surfers Paradise
	Nielsen Park Beach		Northcliffe
	Bargara Beach		Broadbeach
	Kelly's Beach		Kurrawa
Rainbow Beach	Rainbow Beach		Mermaid Beach
			Nobbys Beach
			Miami Beach
			North Burleigh
			Burleigh Beach
			Tallebudgera
			Palm Beach
			Currumbin
			Tugun
			Bilinga
			North Kirra
			Kirra
			Coolangatta
			Rainbow Bay

Table 3-16 Non-SCP beaches that have swimming enclosures/stinger nets installed.

COUNCIL/OWNER	BEACH
Douglas Shire Council	Four Mile Beach
Cairns Regional Council	Kewarra Beach Bramston Beach
Cassowary Coast Council	Etty Bay Kurrimine Beach Mission Beach South Mission Beach
Hinchinbrook Shire Council	Forrest Beach
Townsville City Council	Balgal Beach
Whitsunday Regional Council	Airlie Beach Cannonvale Beach
Gladstone City Council	Barney Point
Gladstone Ports Corporation	Spinnaker Park
Gold Coast City Council	South Stradbroke Island Jacobs Well Jabiru Island Paradise Point Southport

3.8 Data Type 8: SLSQ Patrolled Beaches, Schedule of Servicing, Locations where Drones Already Used

3.8.1 Key Findings

Of the 86 SCP beaches, 65 (or just over 75%) are patrolled by ALS lifeguards, Council lifeguards and/or club volunteers (**Table 3-17**). Most SCP Regions within the SCP are well-patrolled, although only two (2) out of the (9) beaches (Yeppoon Beach and Emu Park Beach) within the Capricorn Coast Region have lifeguards patrolling these beaches. All beaches within the Gold Coast SCP Region are patrolled either by Council lifeguards or club volunteers. Thirty beaches (out of the total of 43 beaches in the three southern most regions (Sunshine Coast, North Stradbroke Island and Gold Coast) are patrolled for 365 days of the year, whilst only 6 out of the 22 beaches that are patrolled to the north of the Sunshine Coast SCP Region are patrolled to this extent (**Table 3-17**).

Many of the 86 beaches within the SCP have the capability to utilise drones for beach safety if required (also see **Section 3.10** for no fly areas). Data obtained from SLSQ during the period between 1 July to 30 September 2019 suggests a total of 7 beaches were inspected using drone technology for beach safety and/or training purposes (**Table 3-17**).

None of the bays within the Whitsundays are patrolled.

3.8.2 Limitations of Data

Data obtained for drone capability was generally given as an area/region and not for an individual beach. Therefore, in these cases, it was assumed that all beaches that are patrolled within these areas/regions had drone capability unless stated otherwise. In addition, drone usage data was only available for the period between 1 July to 30 September 2019.

3.8.3 Maps and Summaries

Table 3-17 Beaches within the SCP that are patrolled by ALS lifeguards, Council lifeguards and/or club volunteers. **Green = patrolled beach, Red = un-patrolled beach**

REGION	BEACH	TIME OF YEAR PATROLLED	NO. OF DAYS PATROLLED	DRONE CAPABILITY	DRONE USED
Cairns	Ellis Beach	Sep to May	227	Yes	
	Buchans Beach				
	Palm Cove	All year	365	Yes	Yes
	Clifton Beach	Sep to May	161	Yes	
	Trinity Beach	All year	365	Yes	
	Yorkeys Knob Beach	All year	365	Yes	
	Holloways Beach	Sep to May	161	Yes	
Townsville & Magnetic Island	Horseshoe Bay	All year	365	Yes	
	Radical Bay				
	Florence Bay				
	Alma Bay	Sep to May	227	Yes	Yes
	Nelly Bay				
	Picnic Bay	Sep to May	66	Yes	
	Pallarenda Beach	Sep to May	161	Yes	
Mackay	The Strand ¹	All year	365	Yes	
	Bucasia Beach	Sep to May	161	Yes	
	Eimeo Beach	Sep to May	227	Yes	
	Blacks Beach				
	Lamberts Beach	Sep to May	161	Yes	
	Sth Lamberts Beach				
Capricorn Coast	Harbour Beach	All year	365	Yes	
	Farnborough Beach				
	Yeppoon Beach	Sep to May	227	Yes	
	Cootee Bay				
	Lammermoor Beach				
	Kemp Beach				
	Mullambin Beach				
Tannum Sands	Tanby Point				
	Fishermans Beach				
	Ernu Park Beach	Sep to May	227	Yes	
	Tannum Sands Beach	Sep to May	227		
Woongarra Coast (Bundaberg)	Oaks Beach	Sep to May	161	Yes	
	Nielsen Park Beach	Sep to May	161	Yes	
	Bargara Beach				
Rainbow Beach	Kelly's Beach	Sep to May	161	Yes	Yes
Sunshine Coast	Rainbow Beach	Sep to May	227		
	Noosa	All year	365		
	Sunshine Beach	All year	365		
	Sunrise Beach	Sep to May	161		
	North Peregian Beach	Sep to May	161		
	Glen Eden Beach				
	Peregian Beach	All year	365		
	Coolum Beach	All year	365	Yes	
	Yaroomba	Sep to May	161		
	Hyatt Resort				
	Maroola Beach	Sep to May	227		
	Surfair Resort				
	Mudjimba Beach	All year	365		
	Twin Waters	All year	365		
	Maroochydore Beach	All year	365		
	Alexandra Headland	All year	365	Yes	
	Mooloolaba Beach	All year	365	Yes	
	Point Cartwright				
	Buddina Beach	Sep to May	161		
	Wurtulla Beach	Sep to May	161	Yes	Yes
Currimundi Beach	Sep to May	161			
Moffat Beach					
Kings Beach (Caloundra)	All year	365	Yes	Yes	
Woorim Beach (Bribie Island)	Sep to May	227			

REGION	BEACH	TIME OF YEAR PATROLLED	NO. OF DAYS PATROLLED	DRONE CAPABILITY	DRONE USED
North Stradbroke Island	Amity Point				
	Flinders Beach				
	Cylinder Beach	All year	365		
	Main Beach (Ocean Beach)	All year	365	Yes	Yes
Gold Coast ³	Sheraton	All year	365		
	Main Beach	All year	365		
	Narrowneck	All year	365		
	Staghorn Avenue	All year	365		
	Elkhorn Avenue	All year	365		
	Surfers Paradise	All year	365		
	Northcliffe	All year	365		
	Broadbeach	All year	365		
	Kurrawa	All year	365		
	Mermaid Beach	All year	365	Yes	Yes
	Nobbys Beach	All year	366		
	Miami Beach	All year	367		
	North Burleigh	All year	368		
	Burleigh Beach	All year	369		
	Tallebudgera	All year	370		
	Palm Beach	Nov to Apr	180		
	Curumbin	All year	365		
	Tugun	Nov to Apr	180		
	Bilinga	Sep to Apr	70		
	North Kirra	Nov to Apr	180		
Kirra	Nov to Apr	180			
Coolangatta ²	All year	365			
Rainbow Bay	All year	365			

1 The Strand comprises of lifeguards at The Strand Net 1 and The Strand Net 2

2 Coolangatta comprises of lifeguards at Coolangatta and Coolangatta and Tweed Heads

3 Beaches within the Gold Coast Region are patrolled by Gold Coast City Council Lifeguards. Beaches shown in green are also patrolled by Club V olunteer Lifeguards

3.9 Data Type 9: Physical Characteristics

The physical characteristics and metocean conditions of the 10 SCP regions and Whitsundays have been analysed using freely available, open-source measurement records and/or numerically modelled datasets. These datasets included:

1. Bathymetry (i.e. seabed elevations);
2. Tidal Water Levels;
3. Ocean Surface Currents;
4. Wave Climate;
5. Secchi Depth (i.e. visibility); and
6. Topography.

3.9.1 Key Findings

3.9.1.1 Bathymetry

Bathymetric elevations have been determined through the use of a high-resolution digital elevation model (DEM), specifically developed for the Great Barrier Reef and Coral Sea. The 3DGBR project (Beaman 2010) DEM has a grid pixel size of 0.001-arc degree (~100 m) with a horizontal datum of WGS84 and a vertical datum of MSL. The grid utilises the latest multibeam, single beam, LiDAR and satellite bathymetry source datasets provided by Federal and State Government agencies, in addition to significant new multibeam data collected during research expeditions in the area. The 3DGBR project has enabled the detailed study of oceanographic and water quality processes within the GBR and is also utilised in the eReefs Hydrodynamic Model, discussed in **Section 3.9.1.3**.

With the exception of the Whitsundays, the 10 SCP regions are all located in the nearshore, with gear deployed in water depths of 5-20 m (MSL). For most beaches in most regions there is a shallow gradient in seabed away from the shore. The exception are the beaches in the North Stradbroke Region and some of those at Magnetic Island in the Townsville Region where the gradient can be steep in some areas. The gradient of the seabed in close to the shore of many of the islands in the Whitsundays can also be very steep.

3.9.1.2 Tidal Water Levels

Maritime Safety Queensland maintains a series of tide gauges along the Queensland coastline for which long-term water level records have been made (Qld Govt 2020). These sites are often located in areas where navigational requirements are critical and may be jointly operated by Queensland Government and local port authorities. Locations where physical gauges have been deployed are referred to as 'Standard Ports'. Tidal water levels at secondary locations, close-by to Standard Ports are often determined by applying phase and amplitude offsets to tidal constituents determined at the nearest Standard Port, and therefore, may have some associated uncertainties.

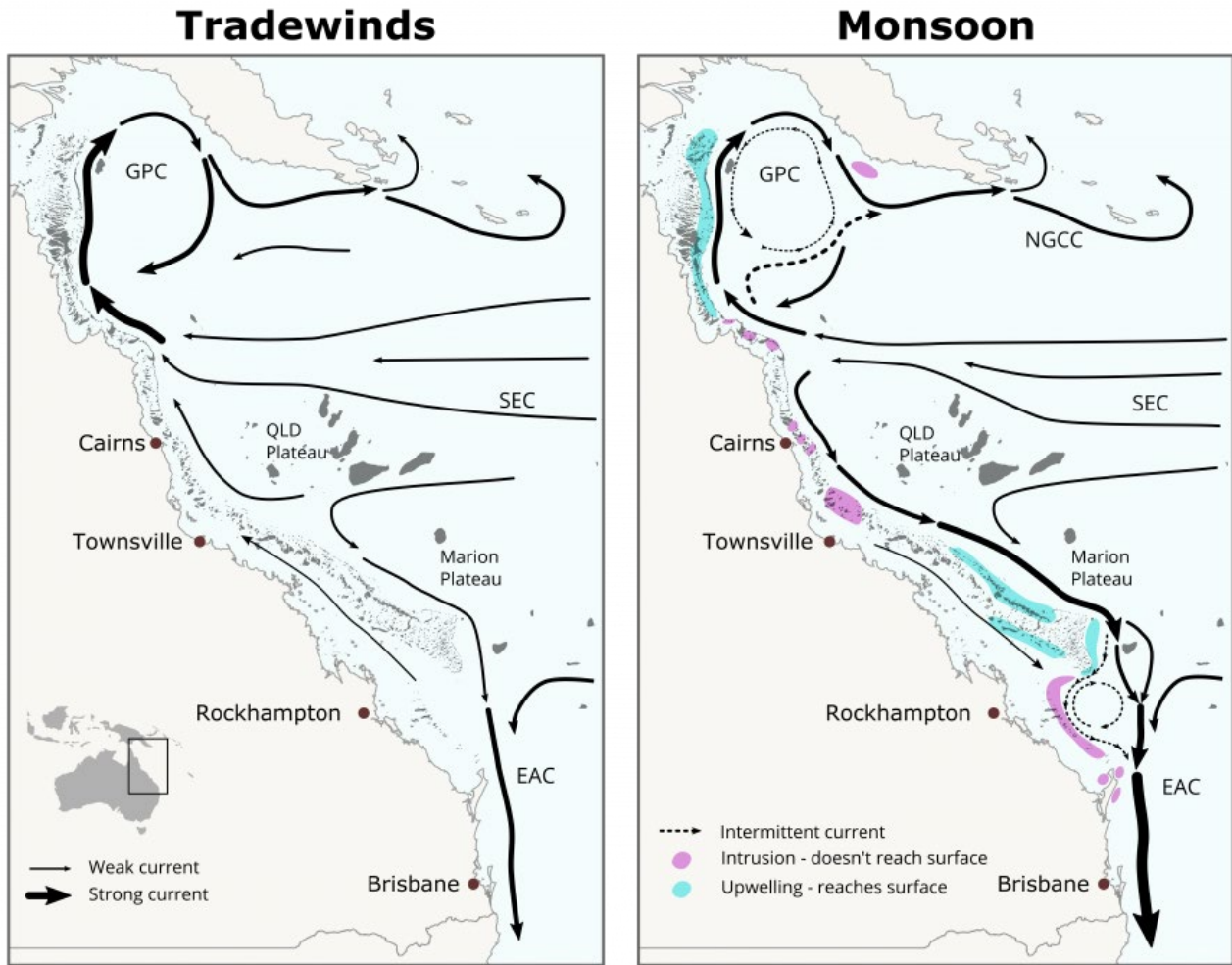
The tidal regime across the 10 SCP regions is classified as mixed semidiurnal, meaning that there are two high and two low tides per day (over a single tidal cycle), often with one high, higher than the other and one low, lower than the other. The tidal regime along the eastern coast of QLD is highly dynamic, featuring micro (<2 m), meso (2-4 m) and macro (4-8 m) tidal ranges. Tidal water levels and their overall range (between LAT and HAT), typically increase moving north from the Gold Coast up to Cairns, with the largest tides along the east coast of Australia occurring to the south of Mackay, within the Broadsound region. Mackay itself has the largest tidal range (LAT to HAT) of all SCP regions at 6.6 m. The lowest tidal range occurs at the Gold Coast (~0.9 to 2.1 m).

3.9.1.3 Ocean Surface Currents

Ocean surface currents within the Great Barrier Reef and along the east coast of Australia are highly complex and dynamic. These ocean currents are driven by a number of meteorological and thermodynamic processes, but are affected by two main phenomena - see **Figure 3-18**.

The main driver of the currents along the Queensland coast are a result of the westward currents near the equator that come off the Pacific Ocean. When the Pacific currents hit obstructions such as reefs and land they are deflected around the obstructions. The main inward flow from the Pacific hits close to Lizard Island, north of Cairns, where it is deflected and split north and south forming the Gulf of Papua Current (GPC) and the East Australian Current (EAC). These large-scale ocean currents are however pushed by the wind at the surface resulting in seasonal differences in the strength and direction of the surface currents. During the

tradewinds season (which tend to occur in the winter months) the wind is consistently pushing north west. This boosts any currents moving northward and slows any southward currents such as the EAC. During the monsoon season (during the summer) the winds reduce and so the ocean currents are almost as though there is no effect from the surface wind.



This map shows prevailing surface currents, which are dependant on winds. This does not show variations due to weather and eddies. GPC - Gulf of Papua Current, NGCC - New Guinea Coastal Current, SEC - South Equatorial Current, EAC - East Australian Current. Attribution: Craig Steinberg, Eric Lawrey, 2018

Figure 3-18 Ocean Surface Currents along QLD Coastline and Coral Sea (Source: Steinberg and Lawrey 2018)

Ocean currents across the 10 SCP regions and Whitsundays have been obtained from the eReefs GBR1 3D Hydrodynamic Model (Herzfeld et al. 2016) developed by the CSIRO over a single year (2018). The model is of ~1 km resolution and is forced with the BoM OceanMaps data on the open boundaries. Surface fluxes are provided by the BoM ACCESS-R Forecast Model and are used to compute momentum, heat and salt fluxes at the sea surface. The model has been subject to calibration and validation both in hindcast and near real-time, using available data and has been shown to produce good agreement with observations.

Surface current outputs are presented in the mapping as a series of current roses, indicating the frequency of current speeds, their direction and magnitude at various locations across the 10 SCP regions and Whitsundays for the year 2018. The dataset is summarised in **Section 3.9.3.4**. Modelled tidal currents indicate a significant net southerly current for SCP regions south of North Stradbroke Island indicating the influence of the persistent southerly EAC. For regions north of North Stradbroke Island, the relative contribution of tidal induced currents becomes more apparent as the coral reefs deflect the westward Pacific Ocean currents away from the coastline.

3.9.1.4 Wave Climate

The wave climate along the eastern Queensland coastline is highly variable and typically comprises a combination of ocean swell and locally generated 'wind-seas'. The swell waves are of long period (typically 7 – 12 seconds) and experience significant modification due to refraction, bed friction and shoaling as they propagate to the shoreline from the deep ocean

Most of the Queensland east coast receives low, short, wind waves, with swell waves only reaching the coast south of Fraser Island. Waves on the Queensland east coast can originate from cyclones in tropical Queensland, East Coast Lows (intense low-pressure systems) in Southern Queensland and south-east trade winds on the east coast. The influence of these sources varies seasonally and regionally.

In Southern Queensland, swell waves can travel unimpeded towards the coastline and usually dominate wind waves. Waves usually approach the coastline from the south-east due to the influence of predominantly south-east winds blowing over long fetches in the Tasman Sea. In Central and Northern Queensland, the Great Barrier Reef (GBR) prevents the majority of swell waves from reaching the coastline. Waves here are predominantly wind waves trapped within the narrow fetch and shallow waters between the coastline and the GBR. Shallow water depths in the GBR lagoon and the Gulf of Carpentaria (both averaging less than 100 metres) limit the size of waves, however swell waves do occasionally pass through gaps in the GBR. Overall, this means that coasts protected by the GBR experience waves lower in height, shorter in period and more irregular than those along the Southern Queensland coast.

Wave climates at the 10 SCP regions and within the Whitsundays have been obtained from offshore Waverider buoy (WRB) measurements, and supplemented by numerically modelled wave conditions where necessary. The Queensland government maintains a series of offshore WRBs (some operated joint with port authorities) along the Queensland coastline. These buoys measure a number of wave parameters including, but not limited to significant wave height, peak wave period and peak wave direction, with records dating back to 1975 at some locations. It should be noted, however, that before 1996, only non-directional measurements have been made which provide limited insight into the directionality of the wave climate.

For locations where in-situ WRB measurements are unavailable, the dataset has been supplemented using modelled hindcast waves from CSIRO's CAWCR WaveWatch III (WW3) numerical wave model (Durrant et al. 2013). The ocean wave hindcast model covers a period of 31 years (1979 through 2010), is of ~7 km horizontal resolution and is forced by NCEP CFSR hourly winds. Model outputs are provided on an hourly basis.

Wave climate outputs are presented in the mapping as a series of wave roses, indicating the frequency of significant wave heights, their direction and magnitude at various locations across the 10 SCP regions and Whitsundays. The datasets are summarised in **Section 3.9.3.5**.

3.9.1.5 Secchi Depth

Secchi depth is an estimate of water clarity, which is traditionally measured by lowering a https://en.wikipedia.org/wiki/Secchi_disk into the water until the disk cannot be seen. The light attenuation rate is an estimate of the percentage light that is lost for each metre of water that the light passes through. The Secchi depth can be estimated from the light attenuation rate using the empirical relationship $K_d * SD = 1.7$, where K_d is the light attenuation and SD is the Secchi depth. This empirical relationship was established by Poole and Atkins (1929) and is used worldwide. Typically, the K_d is estimated through remote satellite sensing from sources such as the NASA MODIS satellites, however, the standard estimate of light attenuation (and Secchi depth) from MODIS imagery is optimised for open ocean conditions and is not tailored to inshore areas such as the Great Barrier Reef. Weeks et al. (2012) developed a regional empirical optimisation of the Secchi estimate using in-situ Secchi measurement from the region.

Secchi depths based on the method of Weeks et al. (2012) have been determined as part of the BioGeoChemical module of the eReefs GBR4 hydrodynamic model (see **Section 3.9.2.2**). Based on the modelled suspended particulate concentrations, the model determines the light attenuation rate (similar to that of remote sensed imagery), before it is passed through the algorithm of Weeks et al. (2012) to determine the resulting Secchi depth.

Secchi depths, presented in the mapping have been prepared as an annual and seasonal average over the available duration of the dataset (2011 through 2017). As shown in **Figure 3-19**, Secchi depths in the nearshore regions typically remain below 10 m, with visibility increasing further offshore. Seasonal variations in Secchi depths are observed and are highly correlated to seasonal river discharges. Based on the research of Fabricius et al. (2014) it was determined that after the onset of seasonal river floods, typically occurring over January to April, photic depth was reduced for on average 6-8 months, gradually returning to clearer baseline values.

3.9.2 Limitations of Data

3.9.2.1 Tidal Water Levels

Tidal predictions are determined through the harmonic analysis of in-situ water level measurements to derive tidal constituents. Each constituent represents a periodic change or variation in the relative positions of the Earth, Moon and Sun, with frequencies that vary between. These constituents vary in both amplitude and speed (frequency) depending on the relative strength of the gravitational forcing and time-scale over which it acts. From these constituents, a long-term tidal prediction (~19 years) can be made to derive the tidal planes. It is important to note that the duration of the water level record will govern number of tidal constituents that can be determined at a given location, affecting the accuracy of the predicted tidal water levels, particularly at the extreme limits (e.g. LAT and HAT). While theoretically, ~19 years of records should be used to undertake the harmonic analysis, often sufficient accuracy is obtained for records substantially shorter. The duration of water-level records used to determine the MSQ tidal planes is unknown and hence there may be some minor uncertainties associated to them, particularly at 'Secondary Port' locations.

Furthermore, it is important to note that the tidal planes presented herein are due to astronomical forcing only. Water level anomalies associated to other physical processes such as storm surges are not captured.

3.9.2.2 Ocean Surface Currents

Ocean surface currents are highly complex and chaotic. Due to limited in-situ measurements, surface currents were obtained from the eReefs numerical model and consequently it must be recognised that there are inherent uncertainties associated to modelling of such complex systems. eReefs modelled surface currents were compared to in-situ measurements at two locations, namely the Brisbane and Mackay Waverider Buoys. At both locations, there is good agreement in current speed magnitudes, directions and temporal variability, indicating a reasonable level of confidence in the eReefs modelled surface currents.

It should be noted that resolution of the model grid is of ~ 1km and is therefore limited in its ability to capture fine detail seabed topography and coastline variations. Hence in locations such as the Whitsundays, where island systems are located in close proximity to each other, and in the very nearshore, uncertainties in the modelled ocean currents are likely increased. Furthermore, current roses presented in mapping are based on a single year of data (2018). It is expected that on an inter-annual basis, that ocean currents will be subject to some minor variations due to longer-term processes.

3.9.2.3 Wave Climate

Wave climates have been obtained from two sources, firstly MSQ Waverider buoy measurements located offshore of the beaches and secondly from the CSIRO CAWCR numerical wave hindcast model.

Directional wave measurements obtained from the MSQ WRBs feature an average duration of ~10 years, however range between 3.7 years and 23.3 years, depending on the location. It is recognised that at most locations the record duration is relatively short meaning that less-frequent, larger wave conditions are not captured. However, for the purpose of understanding the typical wave climate behaviour, the record durations are deemed sufficiently long enough.

The main uncertainties associated to the hindcasted CSIRO CAWCR waves arise from two factors, these being the relatively coarse model grid resolution (~7 km) and the inability for the model to accurately capture wave conditions generated by tropical cyclones in central and northern Queensland. Due to the limited grid resolution and the discrete representation of nearshore bathymetry, modelled wave conditions in the lee of nearshore islands and between reefs are likely to exhibit the greatest uncertainties (both in wave height and their associated directions). Furthermore, the strong wind field gradients associated to tropical cyclones are not typically well captured by the relatively coarse wind field models (in this case NCEP CFSR) used to force the wave model. In combination with the low resolution of the wave model itself, this means that infrequent cyclonic waves are likely underestimated by the model.

It should be also noted that presented wave climates are typically located some 5-10 km offshore of the SCP regions and locations of deployed gear. Waves are expected to be slightly modified as they propagate to the nearshore regions, through processes such as wave shoaling, bottom dissipation, refraction and diffraction. These processes will be most dominant for beaches sheltered by islands and or/reefs or where there is significant bathymetric changes between the nearshore and offshore wave climate point.

3.9.2.4 Secchi Depth

Secchi depths have been determined based on the method of Weeks et al (2014) using modelled light attenuation rates output from the BioGeoChemical water quality module of the eReefs GBR4 hydrodynamic

model. Hence, similarly to the ocean surface currents there exists some inherent uncertainties relating to the modelling of these complex ocean currents which transport particulate loads as well as the particulate load sources themselves. Frequent remoted sensed MODIS satellite data would be preferable as a source of the light attenuation rate, however due to cloud coverage there is often little to no data in the nearshore SCP regions of interest. Consequently, this parameter has been sourced from available eReefs modelled data and passed through the algorithm of Weeks et al. (2012) to derive regionally calibrated estimates of secchi Depth.

It is also recognised that the GB4 model is approximately ~4km in resolution and as a consequence the resolution of nearshore Secchi depths is limited.

3.9.2.5 Topography (of nearshore land)

The landscape around most SCP beaches is generally flat or gradually sloping up to hills, with little opportunity for shark spotters to operate effectively. The exception is North Stradbroke island where there are elevated vantage points close to most of the beaches.

3.9.3 Maps and Summaries

3.9.3.1 Bathymetry

Bathymetry figures have not been included in this report.

3.9.3.2 Tidal Water Levels

Table 3-18 Tidal Planes relative to metres LAT (Source: Qld Govt. 2020). Red and orange colours indicate larger HAT than green or yellow colours.

Location	Lat (°S)	Long (°E)	Tidal Plane Level (m LAT)						
			HAT	MHWS	MHWN	MSL	MLWN	MLWS	LAT
Cairns	16.93	145.78	3.50	2.74	1.81	1.70	1.58	0.65	0.00
Townsville Fairway Beacon	19.13	146.90	3.95	2.99	2.17	1.86	1.56	0.74	0.00
Magnetic Island	19.15	146.87	3.98	3.01	2.17	1.91	1.57	0.75	0.00
Townsville	19.25	146.83	4.11	3.11	2.26	1.94	1.63	0.77	0.00
Hook Island	20.07	148.93	3.80	2.90	2.30	1.69	1.10	0.50	0.00
Cid Harbour	20.25	148.92	4.20	3.30	2.50	1.87	1.30	0.50	0.00
Abel Point (Airlie Beach)	20.27	148.72	3.94	3.00	2.34	1.75	1.16	0.49	0.00
Shute Harbour	20.28	148.78	4.33	3.30	2.57	1.92	1.27	0.54	0.00
Lindeman Island	20.47	149.05	4.94	3.78	2.95	2.32	1.49	0.66	0.00
Mackay Outer Harbour ¹	21.10	149.23	6.58	5.29	4.07	3.02	1.96	0.74	0.00
Roslyn Bay	23.17	150.80	5.14	4.23	3.24	2.42	1.60	0.62	0.00
Gatcombe Head	23.88	151.37	4.29	3.45	2.71	2.08	1.37	0.56	0.00
Bargara	24.82	152.45	3.67	2.88	2.30	1.73	1.14	0.56	0.00
Rainbow Beach	25.90	153.08	2.28	1.78	1.45	1.06	0.71	0.38	0.00
Noosa Head <small>Error! Bookmark not defined.</small>	26.38	153.10	2.28	1.78	1.45	1.08	0.71	0.38	0.00
Mooloolaba Beach	26.68	153.10	2.17	1.66	1.33	0.96	0.58	0.26	0.00

¹ Indicates Standard Port

Caloundra Head	26.80	153.15	2.05	1.63	1.34	0.95	0.57	0.28	0.00
Bulwer Wrecks	27.08	153.37	2.21	1.76	1.44	1.02	0.62	0.30	0.00
Tangalooma Point	27.18	153.37	2.51	2.00	1.65	1.15	0.73	0.38	0.00
Gold Coast Seaway	27.95	153.42	1.91	1.42	1.13	0.76	0.39	0.11	0.00
Snapper Rocks	28.17	153.55	2.11	1.64	1.32	0.97	0.49	0.20	0.00

3.9.3.3 Secchi Depths

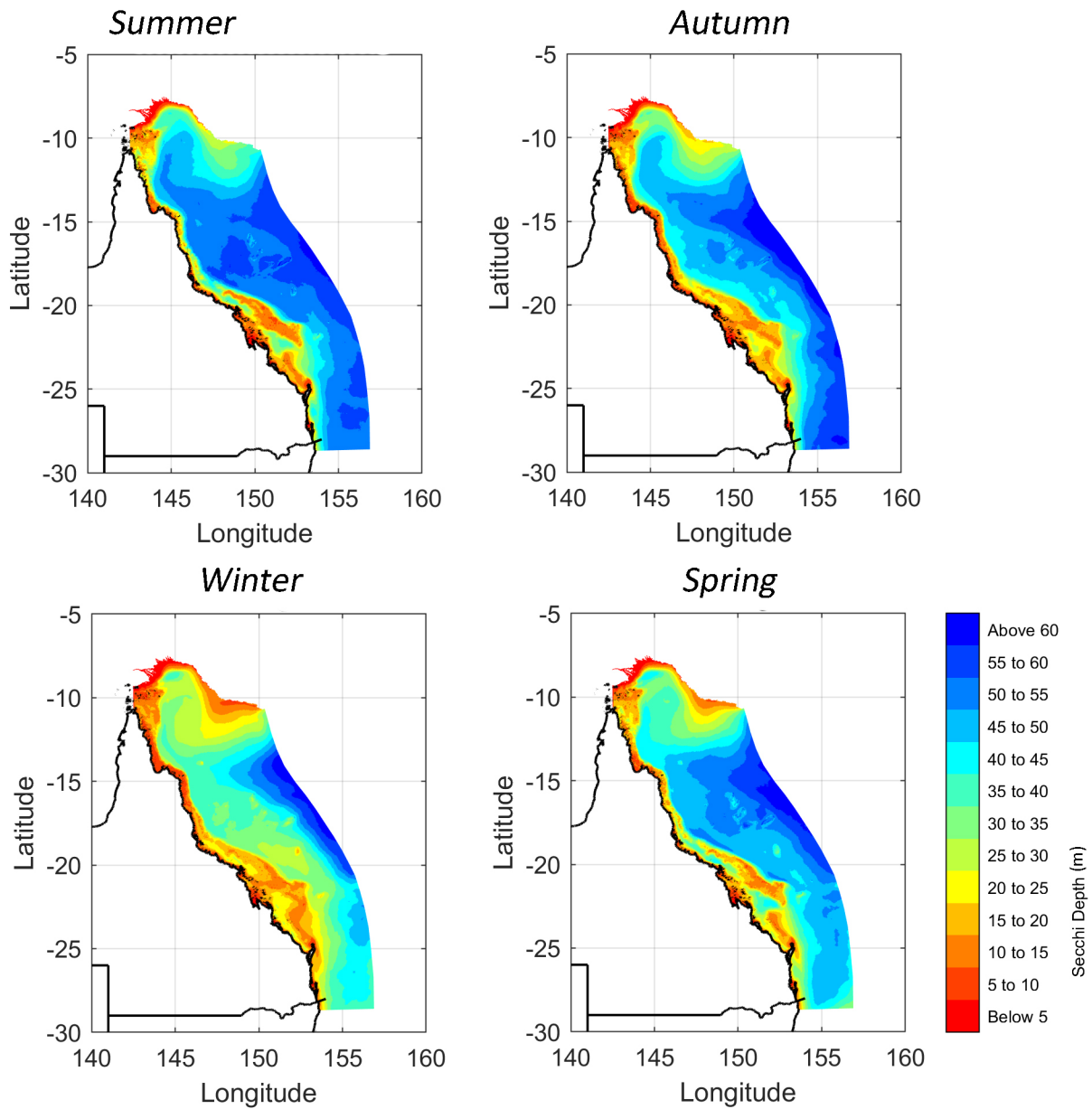


Figure 3-19 Secchi Depths – Seasonal Means (2011 through 2017)

3.9.3.4 Ocean Surface Currents

Table 3-19 Summary of Ocean Surface Current Data (GBR1 eReefs Model) Over the Year of 2018

Buoy Location	Point Number	Lat (°S)	Long (°E)	Depth (m)	Max Current Speed (m/s)	Mean Current Speed (m/s)	Residual (Net) Current Speed (m/s)	Residual (Net) Current Direction (°TN) ²
Cairns	1	16.84	145.76	4	0.56	0.09	0.06	325
	2	16.71	145.66	9	0.87	0.10	0.06	309
Magnetic Island	1	19.18	146.86	13	0.55	0.10	0.02	270
	2	19.10	146.88	21	0.78	0.15	0.07	299
Townsville	1	19.23	146.82	5	0.37	0.06	0.02	296
Whitsunday Island	1	20.28	149.06	13	0.51	0.17	0.05	326
	2	20.33	149.02	18	0.90	0.35	0.05	24
Cid Harbour	1	20.25	148.93	13	0.75	0.25	0.02	222
Hook Island	1	20.05	148.92	48	0.61	0.16	0.02	272
	2	20.15	148.87	38	1.02	0.38	0.06	291
	3	20.14	148.96	24	0.42	0.09	0.05	304
	4	20.18	148.95	4	0.51	0.15	0.05	346
Mackay	1	21.10	149.24	14	0.71	0.16	0.04	338
	2	21.02	149.18	5	0.61	0.20	0.06	326
Capricorn	1	23.24	150.84	3	0.51	0.16	0.05	332
	2	23.18	150.82	8	0.52	0.13	0.06	316
	3	23.12	150.77	8	0.31	0.08	0.03	302
Tannum Sands	1	23.93	151.38	6	0.65	0.27	0.02	107
Woongarra	1	24.83	152.48	10	0.51	0.14	0.03	317
Rainbow Beach	1	25.89	153.12	17	0.32	0.06	0.02	286
Sunshine Coast	1	26.83	153.15	15	0.49	0.12	0.04	1
	2	26.75	153.15	15	0.44	0.10	0.01	314
	3	26.64	153.12	17	0.42	0.09	0.01	227
	4	26.50	153.12	22	0.41	0.12	0.02	259
	5	26.36	153.11	18	0.35	0.08	0.02	297
Sunshine Bribie	1	27.07	153.22	11	1.14	0.52	0.02	331
	1	27.48	153.55	24	0.85	0.26	0.20	198

² Current directions are based on the convention of 'going-to'.

Buoy Location	Point Number	Lat (°S)	Long (°E)	Depth (m)	Max Current Speed (m/s)	Mean Current Speed (m/s)	Residual (Net) Current Speed (m/s)	Residual (Net) Current Direction (°TN) ²
North Stradbroke Island	2	27.40	153.52	19	0.70	0.22	0.17	136
	3	27.40	153.42	4	1.23	0.59	0.06	49
Gold Coast	1	28.14	153.53	27	0.69	0.16	0.11	142
	2	28.07	153.48	29	0.62	0.15	0.10	155
	3	28.00	153.46	27	0.64	0.15	0.10	174

3.9.3.5 Wave Climate

Table 3-20 Summary of Directional Waverider Buoy Data

Buoy Location	Lat (°S)	Long (°E)	Depth (m)	Start Date	End Date	Duration (Years)	Temporal Resolution (hrs)	Max Hs (m)	Mean Hs (m)	Energy Weighted Mean Wave Direction (°TN) ³
Cairns	19.2	147.1	17	27/2/2016	31/10/2019	3.7	0.5	2.0	0.5	83.6
Townsville	21.0	149.5	34	29/10/2008	31/10/2019	11.0	0.5	5.1	0.7	88.6
Mackay Outer	23.3	151.1	19	13/2/2002	31/1/2018	16.0	0.5	5.7	0.9	117.7
Emu Park	23.9	151.5	16	24/7/1996	31/10/2019	23.3	0.5	4.0	0.9	94.1
Gladstone	24.7	152.5	18	23/9/2009	31/10/2019	10.1	0.5	3.2	0.7	72.8
Mooloolaba	26.6	153.2	32	1/9/2006	31/10/2019	13.2	0.5	5.6	1.2	97.4
Caloundra	26.8	153.2	12	26/4/2013	31/10/2019	6.5	0.5	4.2	0.9	87.8
North Moreton Bay	26.9	153.3	35	4/8/2010	31/10/2019	9.2	0.5	5.9	1.0	78.5
Brisbane	27.5	153.6	70	1/1/2012	30/6/2019	7.5	0.5	7.1	1.7	128.8
Gold Coast	28.0	153.4	17	1/1/2014	31/12/2018	5.0	0.5	5.1	1.1	95.6
Tweed Heads	28.2	153.6	22	1/1/2012	15/6/2019	7.5	0.5	6.7	1.2	92.4

³ Wave directions are based on the convention of 'coming-from'.

Table 3-21 Summary of CSIRO WW3 Wave Model Data (1979 through 2010)

Region	Sub-Location	Lat (°S)	Long (°E)	Max H _s (m)	Mean H _s (m)	Energy Weighted Mean Wave Direction (°TN) ⁴
Townsville	Magnetic Island (North)	19.067	146.867	3.4	0.9	-
	Magnetic Island (East)	19.133	146.934	3.0	0.8	-
	Palarenda Beach, The Strand	19.200	146.800	0.9	0.1	-
	Magnetic Island (South-East)	19.200	146.867	1.6	0.4	-
Whitsundays	Hook Island (North)	20.000	148.934	4.8	1.1	-
	Hook Island (East)	20.133	149.000	4.2	0.9	-
	Hook Island (South)	20.200	148.867	2.2	0.3	--
	Whitsunday Island (South-East)	20.333	149.134	4.9	1.0	-
Capricorn	North	23.133	150.867	0.7	0.1	-
	South	23.200	150.867	0.9	0.2	-
Woongarra	-	24.733	152.534	4.4	0.9	-
North Stradbroke Island	North	27.333	153.534	6.6	1.3	-
	East	27.400	153.334	1.9	0.4	-

⁴ Wave directions are based on the convention of 'coming-from'.

3.10 Data Type 10: CASA Exclusion Zones, Seabird Exclusion Zones

3.10.1 Key Findings

Civil Aviation Safety Authority (CASA)-verified drone safety apps provide customised location-based information about where you can and can't fly your drone, in accordance with aviation legislation. Drone operators must comply with airspace zoning governed by CASA. Airspace zoning includes:

- > **Controlled airspace**: In general you must **not** fly your drone closer than 5.5 km to a controlled aerodrome or airfield (usually those with a control tower), if your drone weighs more than 100 g.
- > **Restricted airspace**: Airspace within which the flight of aircraft is restricted in accordance with specified conditions. This may be airspace in an airport approach and departure path reserved for military operations or special uses such as Sydney Harbour as outlined in the ERSA (En Route Supplement Australia). **In an airport approach and departure path, drones must fly below 300 ft / 90 m.**
- > **Danger area**: Airspace within which activities dangerous to the flight of aircraft may exist at specified times. **It is ok to fly here**, but be on the lookout for hang gliders, skydivers or other hazards as outlined in the ERSA (En Route Supplement Australia).
- > **Heliports, or airport without traffic control**: If operating near a known heliport, or airport without traffic control, **you must safely land if aircraft are operating** in the area.

SCP beaches or Whitsunday areas within these zones are given in **Table 3-22** and **Figure 3-20** to **Figure 3-23**. In any area, it is important for drone operators in these areas to comply with the drone safety rules – officially known as the 'standard operating conditions' (see <https://www.casa.gov.au/drones/rules/drone-safety-rules>).

Seabird exclusion zones within the Whitsundays are 'no fly zones'. These occur mostly in the north-west of the Whitsundays and away from popular tourist areas.

3.10.2 Limitations of Data

Although all effort has been made to accurately portray the boundaries of restricted areas as given in OpenSky (2019), Cardno does not warrant the accuracy of these layers. There are also other restrictions to be aware of including restrictions about flying near emergency situations such as bushfires, near marine wildlife and in national parks, but these were unable to be mapped.

3.10.3 Maps and Summaries

See over

Table 3-22 Beaches within restricted airspace or helipads (Y = whole of beach is within mapped airspace, Part = part of beach is within mapped airspace).

REGION	BEACH	AIRSPACE			
		Controlled (no fly)	Restricted (below 300ft / 90m)	Danger (keep a lookout)	Helipad, or airport without traffic control (land when aircraft present)
Cairns	Yorkeys Knob Beach	Part			Part
	Holloways Beach	Y			Part
Townsville & Magnetic Island	Horseshoe bay				Y
	Florence Bay				Y
	Alma Bay				Y
	Nelly Bay				Y
	Picnic Bay				Y
	Pallarenda Beach	Y			
	The Strand	Y			
Mackay	Lamberts Beach				Y
	Sth Lamberts Beach				Y
	Harbour Beach				Y
Capricorn Coast	Farnborough Beach				Y
	Yeppoon Beach				Y
	Cooee Bay				Y
	Lammermoor Beach				Y
	Tanby Point				Y ¹
	Fishermans Beach				Y ¹
	Emu Park Beach				Y ¹
Woongarra Coast	Oaks Beach (Shore only)			Y	
	Neilson Park Beach			Y	
	Bargara Beach			Y	
	Kellys Beach			Y	
Sunshine Coast	Noosa				Y ²
	Sunshine Beach				Part
	Sunrise Beach				Part
	North Peregian Beach				Part
	Coolum Beach	Part			
	Yaroomba	Part			
	Hyatt Resort	Y			
	Marcoola Beach	Y			
	Surfair Resort	Y			
	Mudjimba Beach	Y			
	Twin Waters	Y			
	Maroochydore Beach	Part			
	Buddina Beach				Part
	Wurtulla Beach (Partial)			Part	Y
	Currimundi Beach			Part	Y
	Moffat Beach				Y

REGION	BEACH	AIRSPACE			
		Controlled (no fly)	Restricted (below 300ft / 90m)	Danger (keep a lookout)	Helipad, or airport without traffic control (land when aircraft present)
	Caloundra Beach				Y
	Woorim Beach			Part	
North Stradbroke Island	Amity Point (Partial)			Part	Part
	Flinders Beach				Part
	Cylinder Beach				Y
	Ocean Beach				Y
Gold Coast	Sheraton Mirage				Y
	Main Beach				Y
	Narrowneck Beach				Y
	Staghorn Avenue				Y
	Surfers Paradise				Y
	Northcliffe Beach				Y
	Broadbeach				Y
	Kurrawa Beach				Y
	Mermaid beach				Part
	Burleigh Beach				
	Tallebudgera	Part	Part		Part
	Palm Beach	Y			
	Currumbin	Y			Y
	Tugun	Y			Y
	Bilinga	Y			Y
	North Kirra	Y			Y
	Kirra	Y			Y
	Coolangatta	Y			Y
	Rainbow Bay	Y			Y
Whitsundays	N/A	See Figure 3-20 below			

¹ indicates airport without traffic control, ² indicates heliport and airport without traffic control

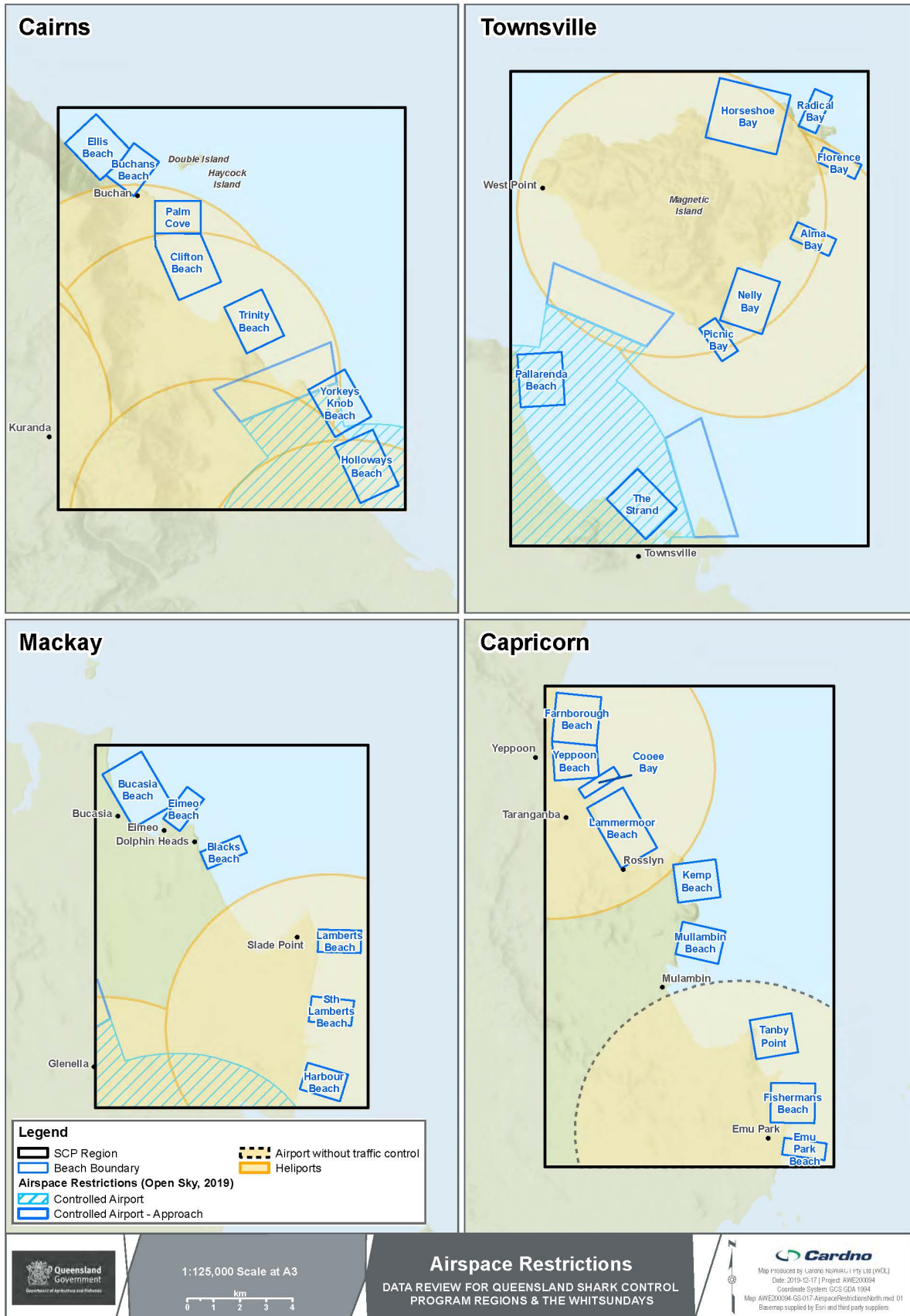


Figure 3-20 Controlled airspace in the SCP regions of Cairns, Townsville, Mackay & Capricorn Coast.

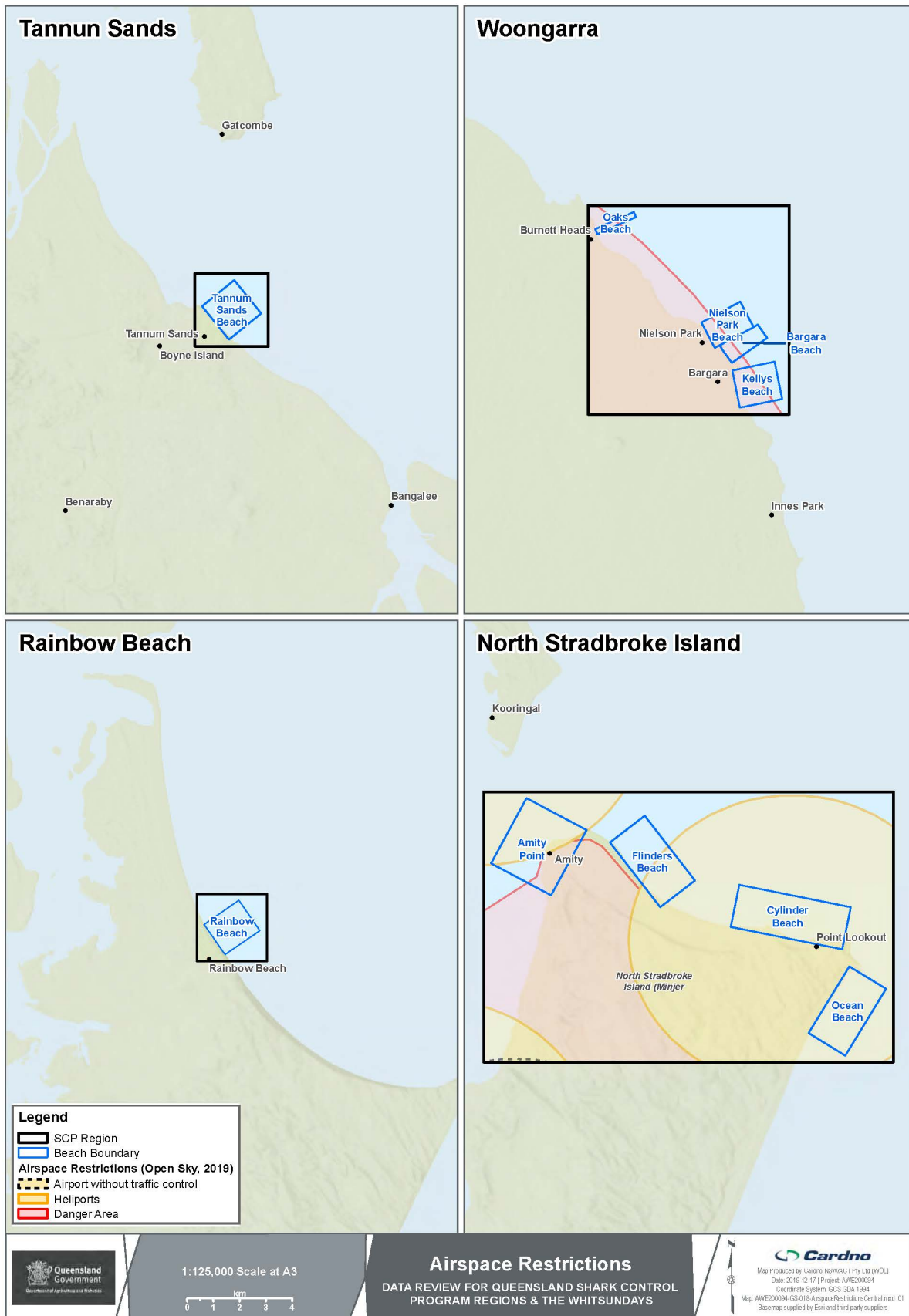


Figure 3-21 Controlled airspace in the SCP regions of Tannun Sands, Woongarra, Rainbow Beach & North Stradbroke Island.

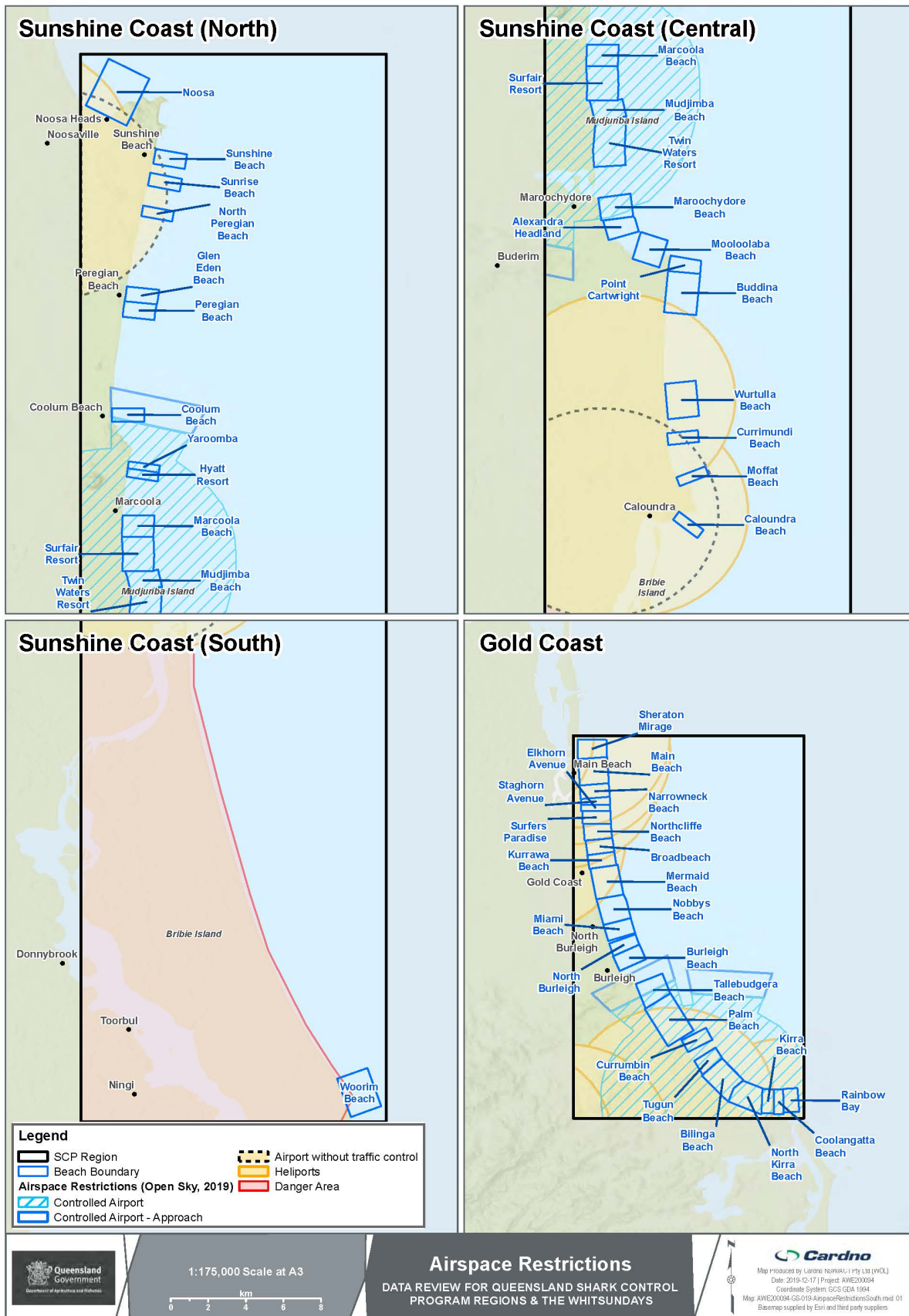


Figure 3-22 Controlled airspace in the SCP regions of Sunshine Coast and Gold Coast.

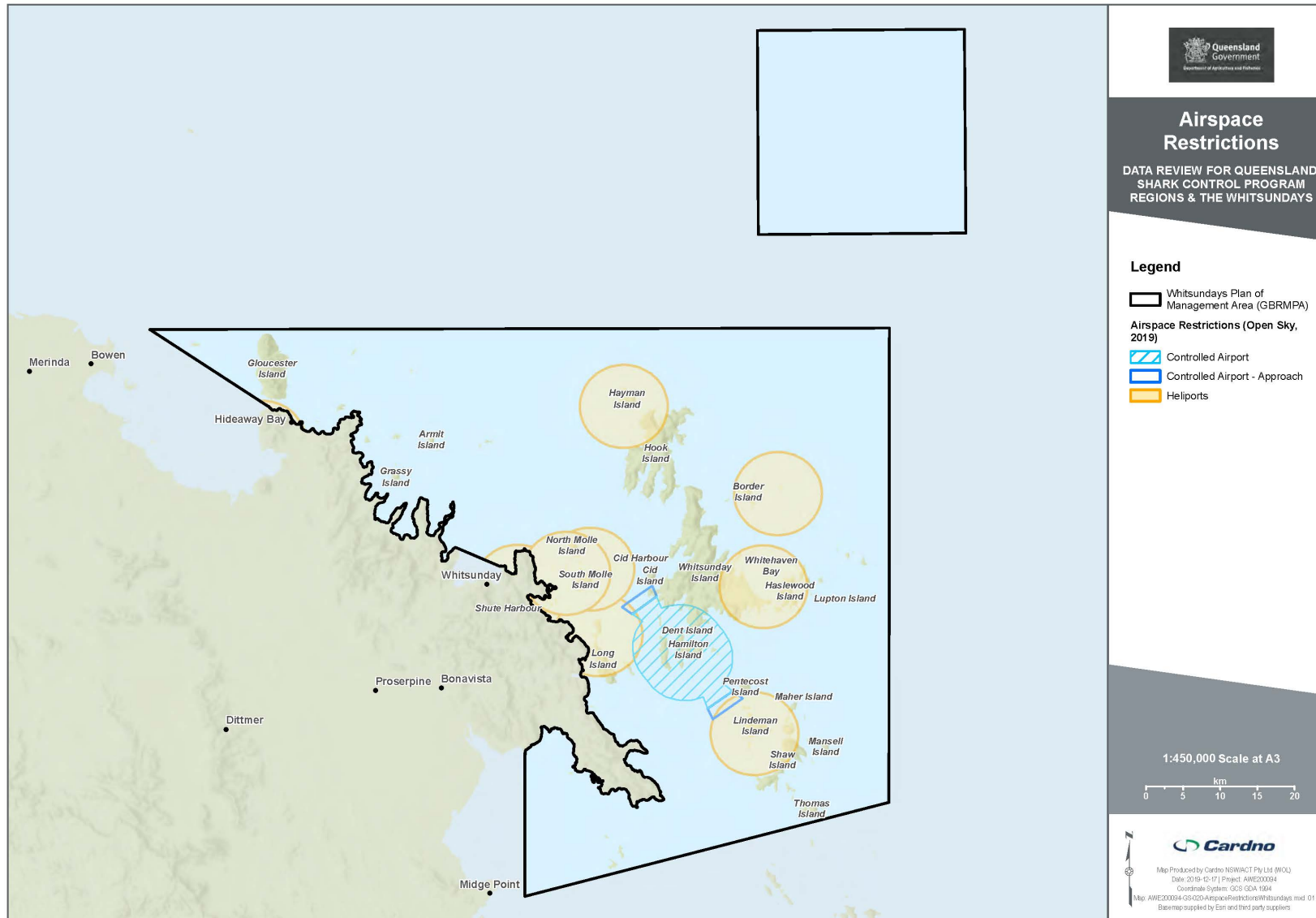


Figure 3-23 Controlled airspace in the Whitsundays.

3.11 Data Type 11: Seamap Australia Benthic Habitat Maps

3.11.1 Key Findings

Information downloaded from Seamap Australia indicated most beach areas within most regions were clear of sensitive benthic habitats such as seagrass and reef (**Figure 3-24** to **Figure 3-26**). Reef is mapped within parts of some of the beach areas within the SCP regions of Capricorn, Woongarra and Nth Stradbroke and it fringes much of the shore of the islands of the Whitsundays. Seagrass is mapped on the southern part of the Amity Point Beach of the North Stradbroke Region (**Figure 3-25**) and within many of the shallow areas and bays around the larger of the islands in the Whitsundays (**Figure 3-27**).

3.11.2 Limitations of Data

Seamap Australia represents the collation of all Queensland benthic habitat mapping data into one location on a platform provided by the Australian Ocean Data Network (AODN) complete with metadata records. It synthesises datasets into one spatial data product using a newly proposed national benthic marine classification scheme for the Australian continental shelf (Lucieer et al. 2017).

Seamap Australia's value is in its consistency in habitat classification but it must also be recognised that it is not complete. The maps have been sourced from numerous contributors who had collected data for different purposes. As such, there are differences in coverage of either the area of beaches or the types of benthic habitats that were mapped. Differences in resolution among data sets associated with the scale of the original mapping or the method of collection may also mean that some habitat boundaries are not accurate. Further, for the older data, the boundaries of some habitats are likely to have shifted over time due to physical or biological processes. For example, mapped reef habitat may have since become exposed or inundated due to shifting sediment. For those habitats delineated by the presence of particular biota (i.e. seagrass and mangroves), boundaries may have shifted due to dieback and/or recruitment of vegetation. For tropical seagrass, inter-annual variability can be particularly great. Given the datasets that have contributed to Seamap are specific to a data collection period, the locations of some habitats (particularly seagrass) should be viewed with caution.

3.11.3 Maps and Summaries

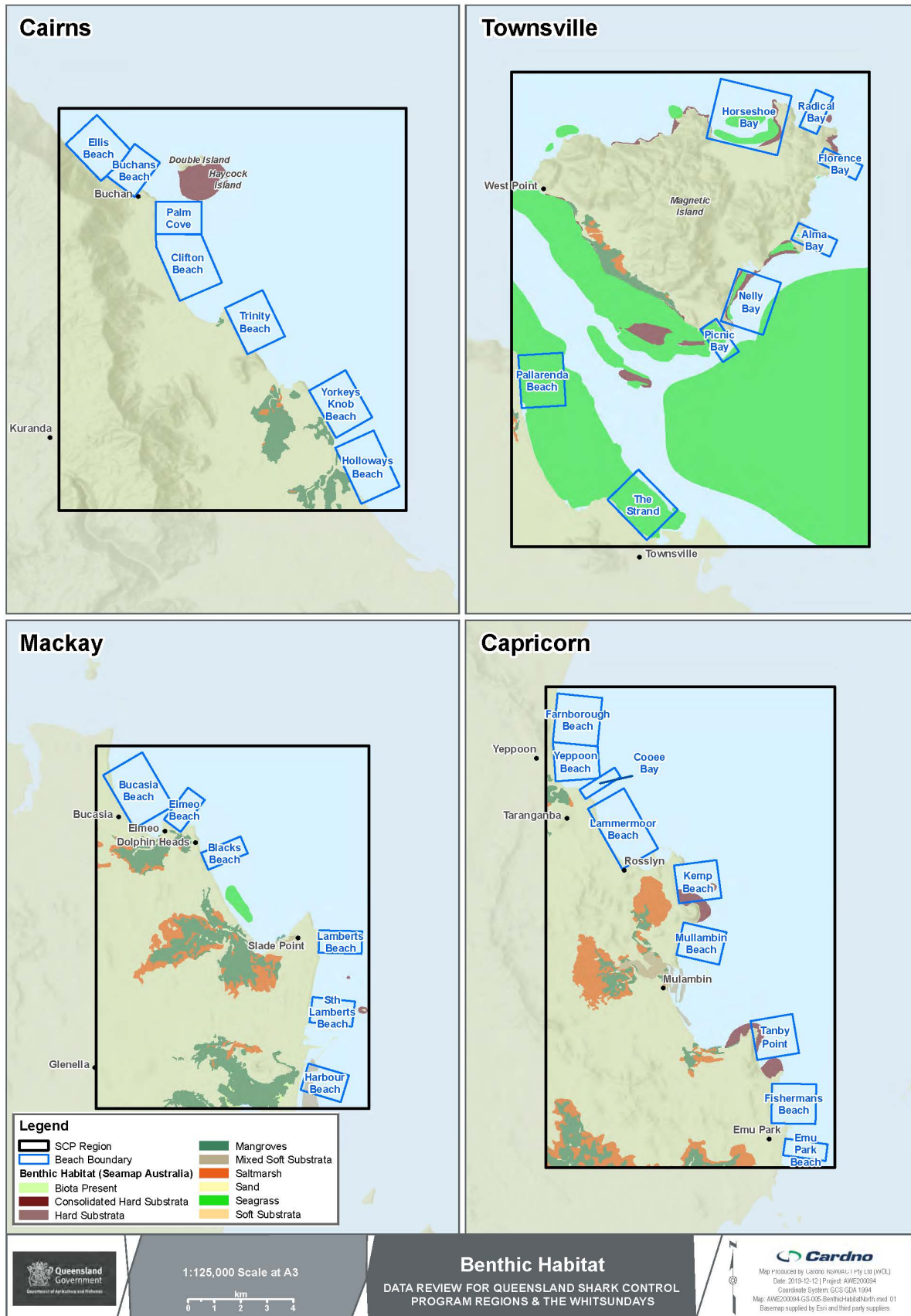


Figure 3-24 Benthic habitat in the SCP regions of Cairns, Townsville, Mackay & Capricorn Coast.

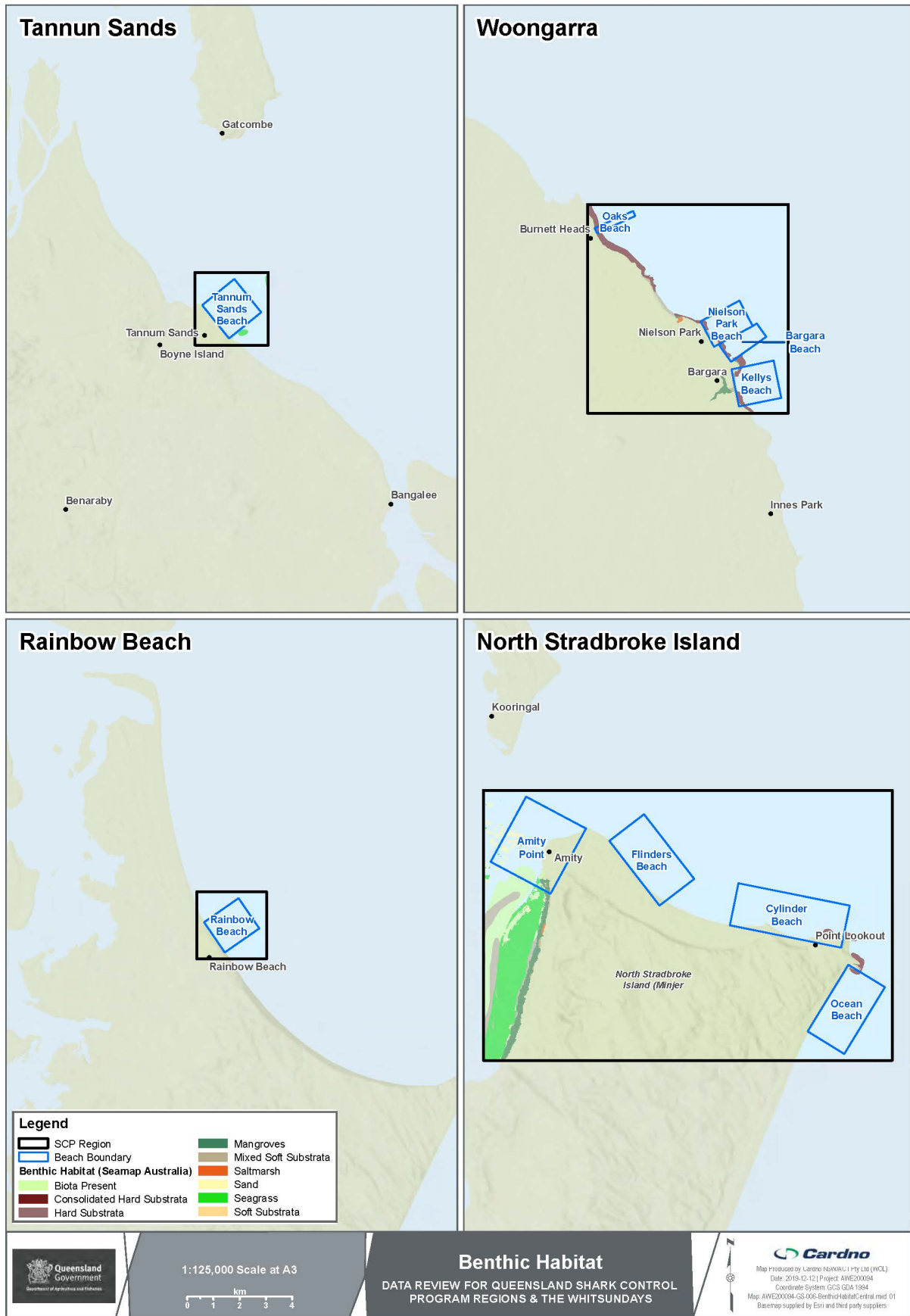


Figure 3-25 Benthic habitat in the SCP regions of Tannun Sands, Woongarra, Rainbow Beach & North Stradbroke Island.

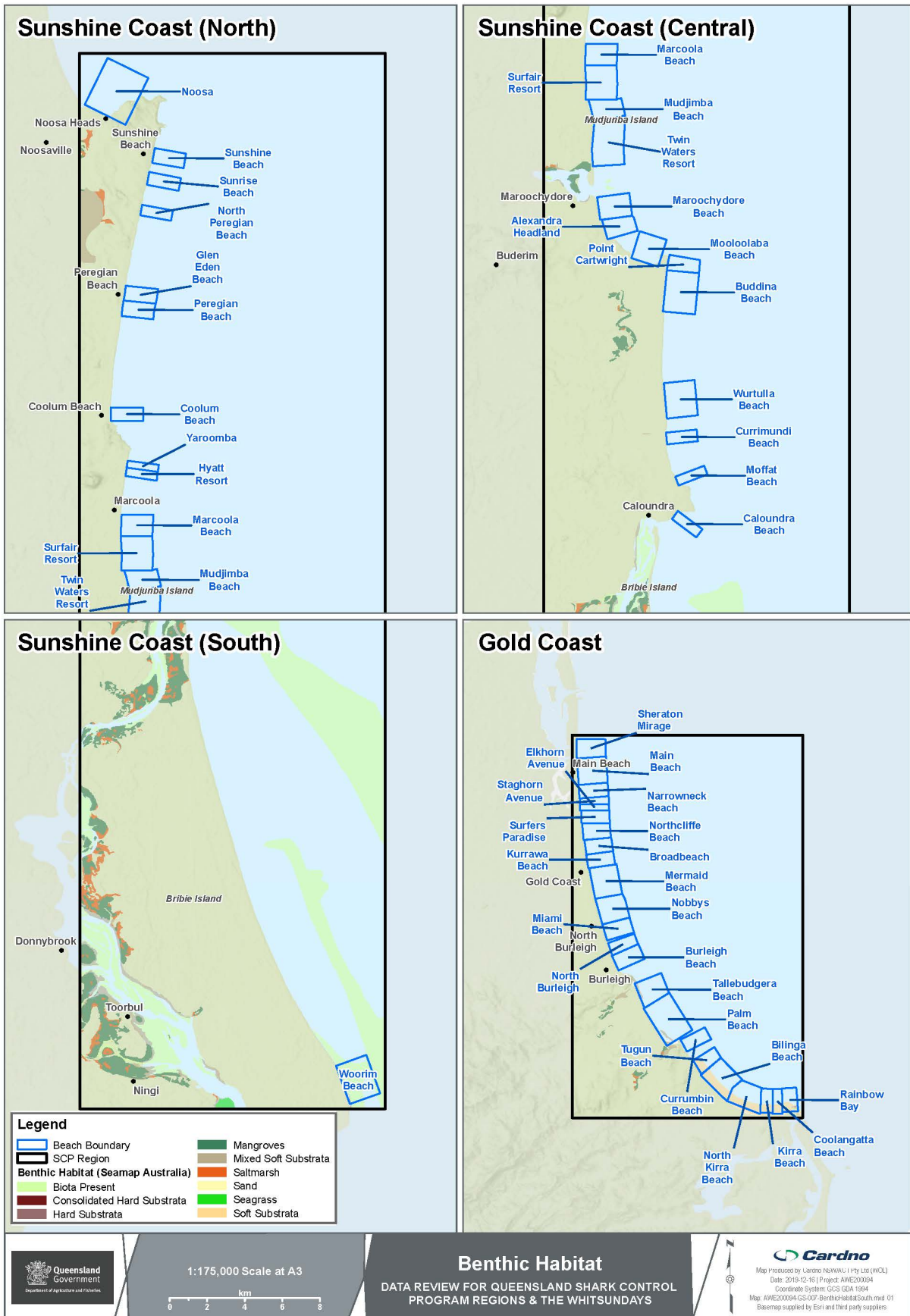


Figure 3-26 Benthic habitat in the SCP regions of Sunshine Coast & Gold Coast.

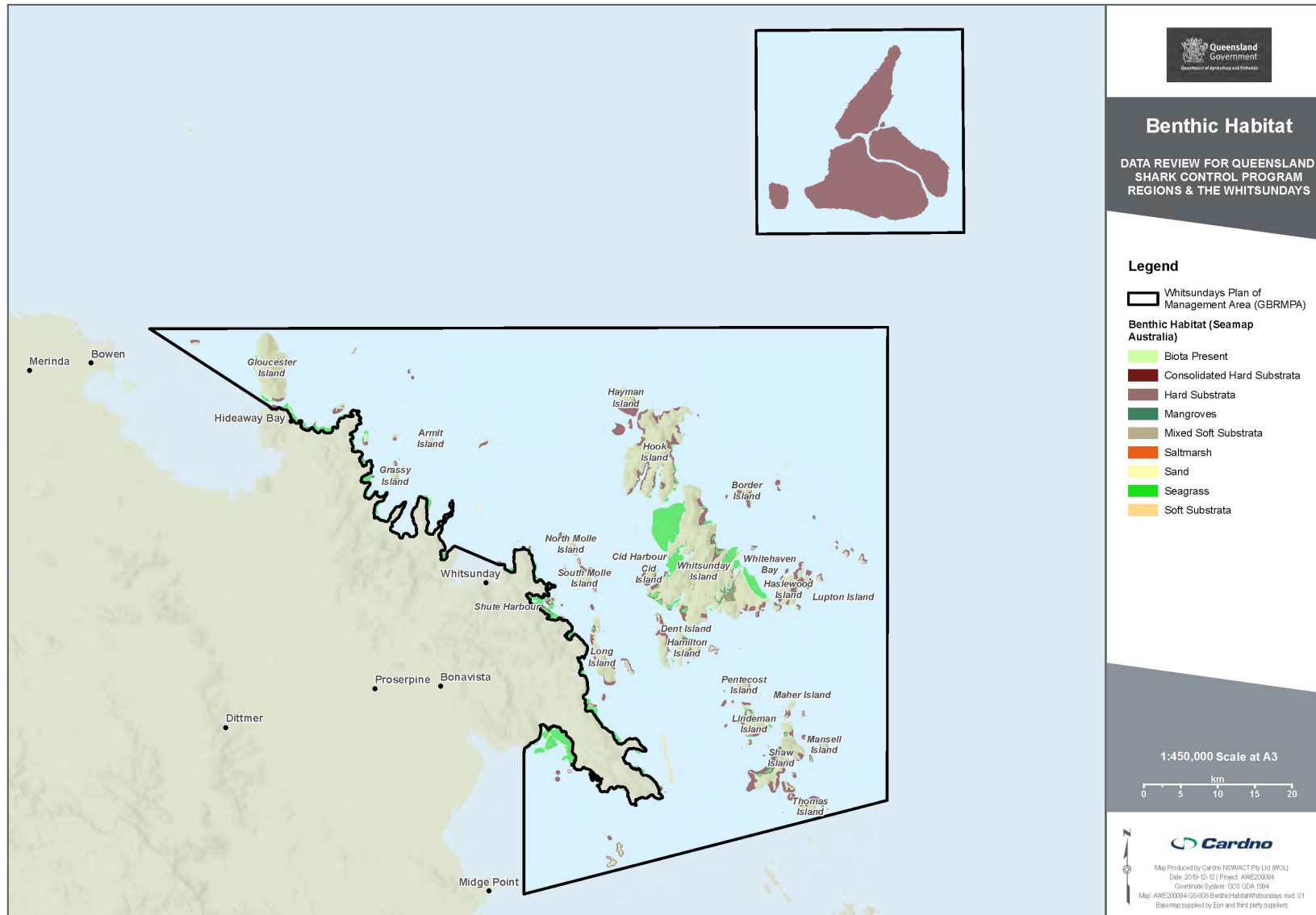


Figure 3-27 Benthic habitat in the Whitsunday.

3.12 Data Type 12: All Relevant GBRMP Attributes, Including for the Whitsundays Plan of Management

3.12.1 Key Findings

GBRMP

The Queensland Great Barrier Reef Coast Marine Park (GBR Coast MP) complements the Commonwealth Great Barrier Reef Marine Park (GBRMP) through adopting similar zone objectives, and entry and use provisions. While the activities that can be carried out within the GBR Coast MP and GBRMP are generally the same, there are some Queensland-specific provisions that apply.

Parts of the northern SCP regions overlap with the GBRMP or GBR Coast MP, however, some beaches or parts of beaches in the north are not within these marine parks. The marine park zoning for beaches in SCP regions from Cairns to Tannum Sands are given in **Figure 3-28** and below:

- Cairns
 - GBRMP 'Habitat Protection' zone – Ellis Beach, Buchans Beach, Palm Cove and Clifton;
 - GBRMP 'General Use' zone - part of Trinity Beach
 - GBR Coast MP 'General Use' zone - part of Trinity Beach, Yorkeys Knob and Holloways Beach.
- Townsville
 - GBRMP 'Conservation Park' zone - Picnic Bay;
 - GBRMP 'Habitat Protection' zone – Nelly Bay, Alma Bay, Florence Bay and Radical Bay;
 - GBR Coast MP 'Habitat Protection' zone –Horseshoe Bay.
 - Non marine park – The Strand.
- Mackay
 - GBRMP 'Conservation Park' zone – Bucasia Beach, Eimeo Beach and Blacks Beach;
 - Non marine park – Lamberts Beach, South Lamberts Beach and Harbour Beach.
- Capricorn
 - GBRMP 'Conservation Park - Farnborough Beach, Yeppoon Beach, Cooee Bay, Mullambin Beach, part of Kemp Beach, part of Lammermoor Beach;
 - GBRMP 'Habitat Protection' zone – Tanby Point, Fisherman's Beach and Emu Park;
 - Non marine park – part of Lammermoor Beach.
- Tannum Sands
 - GBR Coast MP 'General Use' zone – part of Tannum Sands.

Whitsundays

The Whitsundays is jointly managed by the Great Barrier Reef Marine Park Authority and Queensland Parks and Wildlife Service. The Whitsundays is very popular for recreational activities, including boating, fishing, snorkeling, diving, camping, motorised water sports, island hopping, walking and recreational flights. The fringing reefs and outer reefs of the Whitsundays are not only visually attractive, but also ecologically significant. There are extensive and diverse reef structures and corals. The unique island habitats within the Whitsundays continue to support an abundance of life, with both spectacular scenery and biodiversity a large drawcard for visitors. Many migratory seabirds and shorebirds visit the area to roost, nest and feed. Given the sensitivity of some areas and the level of tourism the region has additional zoning as outlined in the Zoning Plan of Whitsunday Plan of Management (WPOM). Rules including zoning and the WPOM are in place to protect the Whitsundays. The zoning is summarised in **Figure 3-29** and **Figure 3-30**.

3.12.2 Limitations of Data

None.

3.12.3 Maps and Summaries

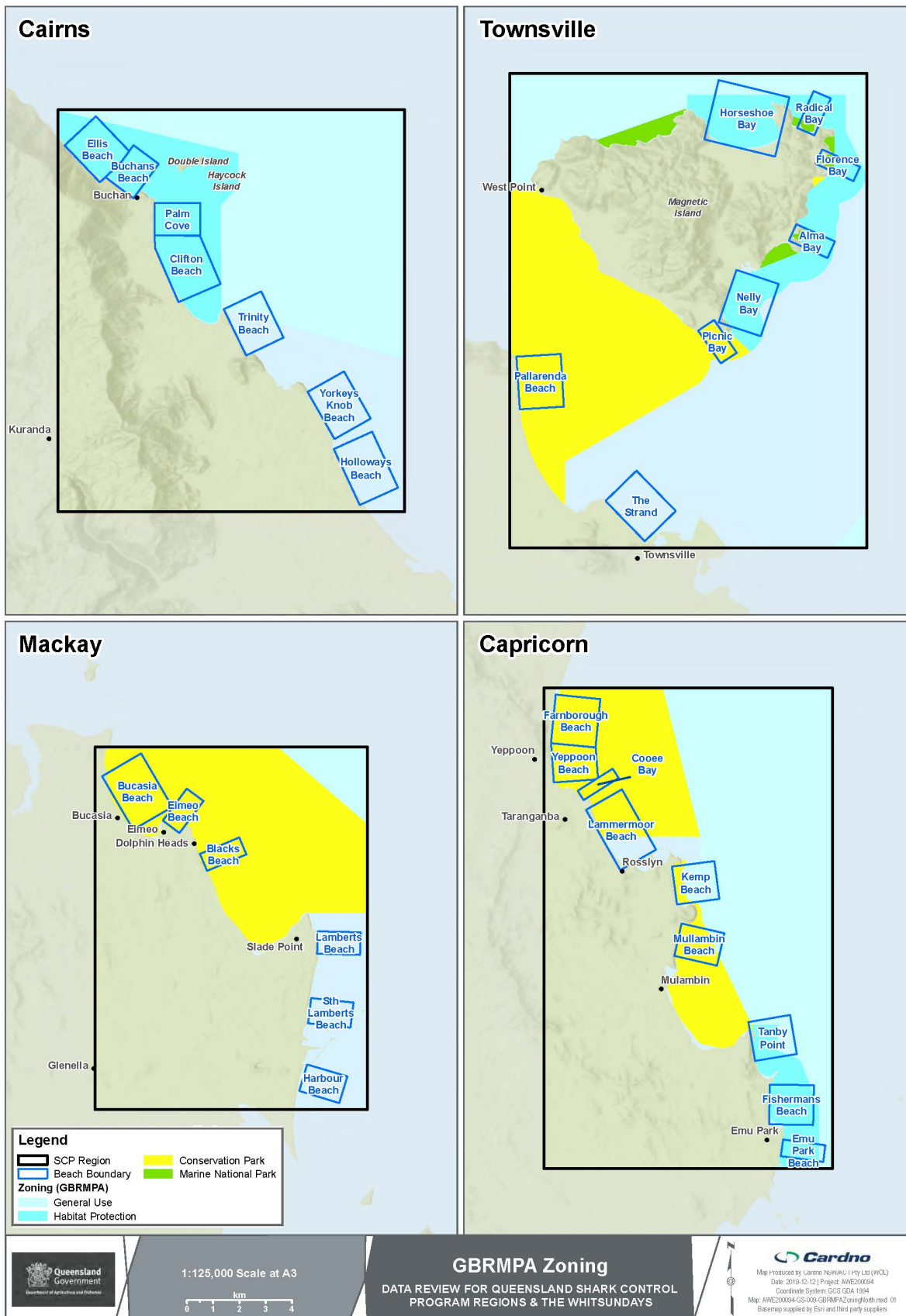


Figure 3-28 GBRMPA zoning in the SCP regions of Cairns, Townsville, Mackay & Capricorn Coast.

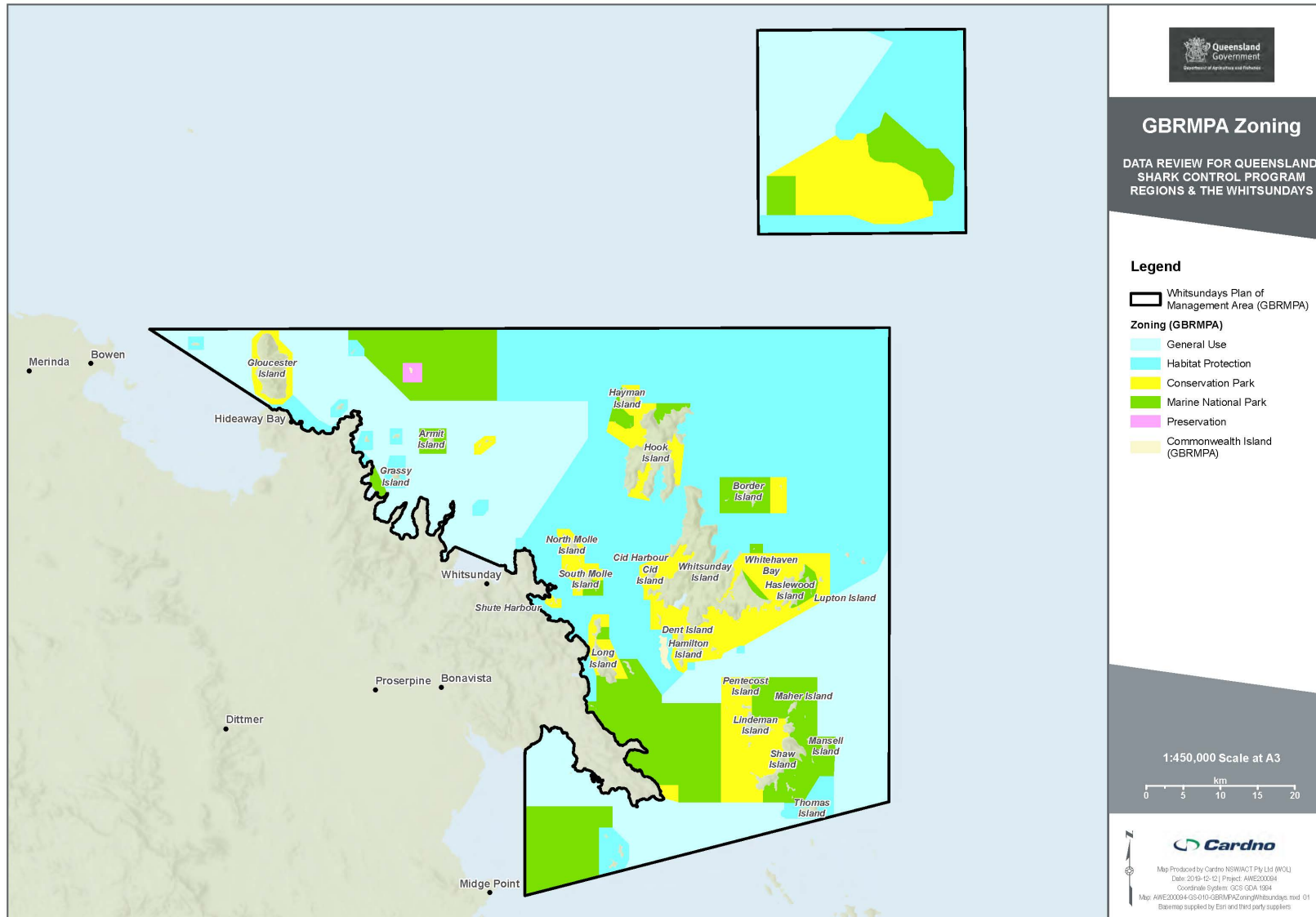


Figure 3-29 GBRMPA zoning in the Whitsundays.

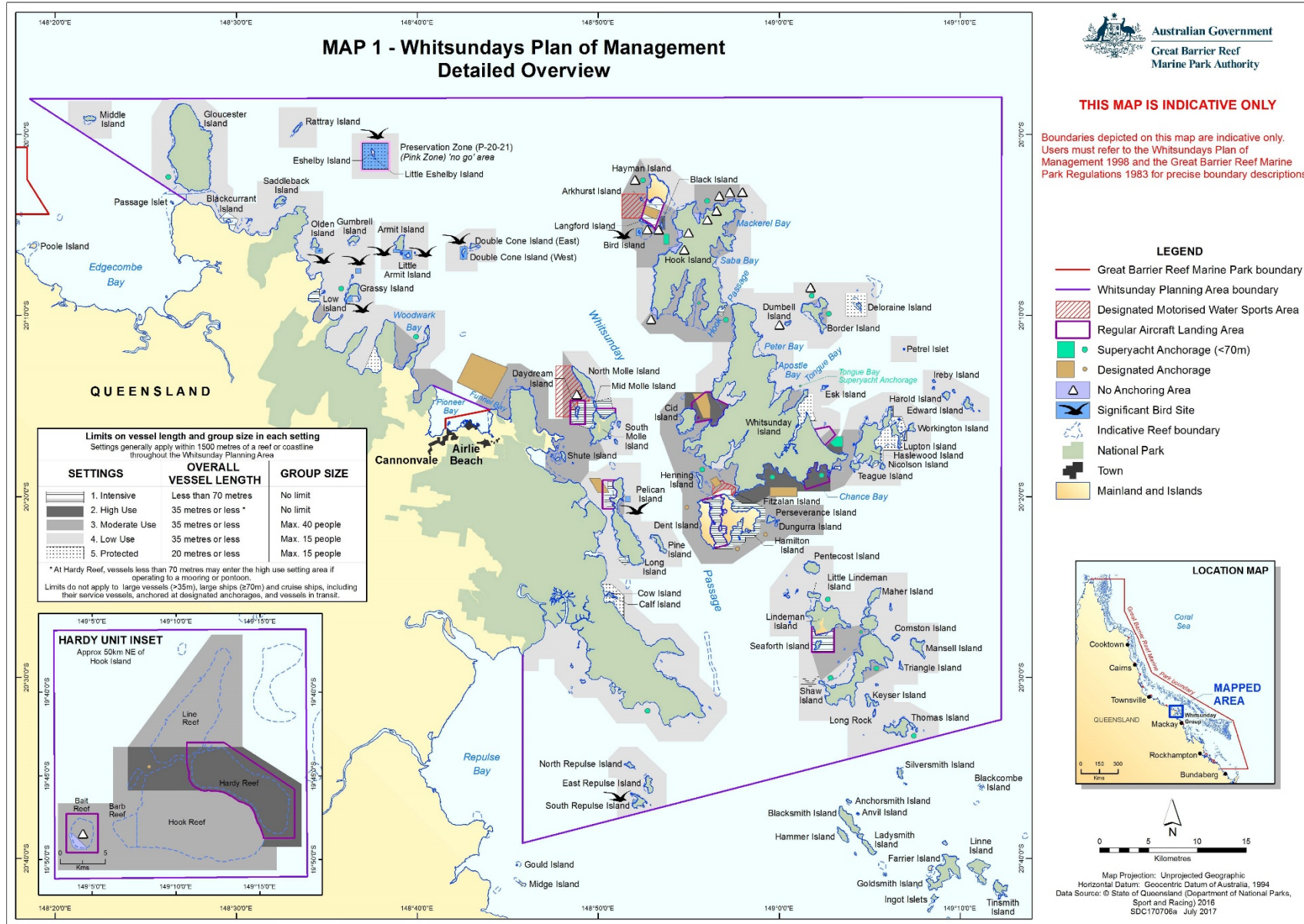


Figure 3-30 Overview of the Whitsundays PoM zoning (Source: <http://www.gbmpa.gov.au/access-and-use/access-and-use-by-location/Whitsunday-plan-of-management>).

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APPENDIX A

SCP TARGET AND NON-TARGET SPECIES

TARGET SPECIES		NON-TARGET SPECIES	
Common Name	Scientific Name	Common Name	Scientific Name
Sharks		Sharks	
Australian Blacktip	<i>Carcharhinus tilstoni</i>	Aust Sharpnose Shark	<i>Rhizoprionodon taylori</i>
Big Nose Whaler	<i>Carcharhinus altimus</i>	Blacktip Reef Whaler	<i>Carcharhinus melanopterus</i>
Blue Shark	<i>Prionace glauca</i>	Creek Whaler	<i>Carcharhinus fitzroyensis</i>
Bull Whaler	<i>Carcharhinus leucas</i>	Fossil Shark	<i>Hemipristis elongata</i>
Common Blacktip Whaler	<i>Carcharhinus limbatus</i>	Graceful Whaler	<i>Carcharhinus amblyrhynchoides</i>
Dusky Whaler	<i>Carcharhinus obscurus</i>	Grey Carpet Shark	<i>Chiloscyllium punctatum</i>
Great Hammerhead	<i>Sphyrna mokarran</i>	Grey Nurse Shark	<i>Carcharias taurus</i>
Grey Reef Whaler	<i>Carcharhinus amblyrhynchos</i>	Hardnose Whaler	<i>Carcharhinus macloiti</i>
Long Nose Whaler (Spinner Shark)	<i>Carcharhinus brevipinna</i>	Milk Shark	<i>Rhizoprionodon acutus</i>
Longfin Mako	<i>Isurus paucus</i>	Nervous Shark	<i>Carcharhinus cautus</i>
Shortfin Mako	<i>Isurus oxyrinchus</i>	Port Jackson Shark	<i>Heterodontus portusjacksoni</i>
Oceanic Whitetip Whaler	<i>Carcharhinus longimanus</i>	Slit Eye Shark	<i>Loxodon macrorhinus</i>
Pigeye Whaler	<i>Carcharhinus amboinensis</i>	Scalloped Hammerhead	<i>Sphyrna lewini</i>
Sandbar Whaler	<i>Carcharhinus plumbeus</i>	Speartooth Shark	<i>Glyphis glyphis</i>
Sharptooth Shark/Lemon Shark	<i>Negaprion acutidens</i>	Spot-Tail Whaler	<i>Carcharhinus sorrah</i>
Silky Whaler	<i>Carcharhinus falciformis</i>	Tasselled Wobbegong	<i>Eucrossorhinus dasypogon</i>
Silvertip Whaler	<i>Carcharhinus albimarginatus</i>	Thresher Shark	<i>Alopias sp.</i>
Tiger Shark	<i>Galeocerdo cuvier</i>	Weasel Shark	<i>Hemigaleus australiensis</i>
White Shark	<i>Carcharodon carcharias</i>	Whale Shark	<i>Rhincodon typus</i>
		White-Cheek Shark	<i>Carcharhinus dussumieri</i>
		White-tip Reef Shark	<i>Triaenodon obesus</i>
		Winged Hammerhead	<i>Eusphyra blochii</i>
		Unid. Hammerhead Shark *	<i>Sphyrna spp.</i>
		Tawny Shark	<i>Nebrius ferrugineus</i>
		Zebra Shark	<i>Stegostoma fasciatum</i>
		Rays	
		Bull Ray	<i>Myliobatis australis</i>
		Cownose Ray	<i>Rhinoptera bonasus</i>
		Devil ray	<i>Mobula spp.</i>
		Eastern Shovel-nosed Ray	<i>Aptychotrema rostrata</i>
		Giant Shovel-nosed Ray	<i>Glaucostegus typus</i>
		Green Sawfish	<i>Pristis zijsron</i>
		Manta Ray	<i>Manta spp.</i>
		Narrow Sawfish	<i>Anoxypristis cuspidata</i>
		Queensland Sawfish	<i>Pristis clavata</i>
		Reticulate Whipray	<i>Himantura uarnak</i>
		Shark Ray	<i>Rhina ancylostoma</i>
		Unidentified Ray	Dasyatidae & Urolophidae
		Unidentified Eagle Ray	Myliobatidae
		Unid Shovel-nosed Ray *	Rhinobatidae
		Unidentified Sawfish	Pristidae
		White-Spotted Eagle Ray	<i>Aetobatus ocellatus</i>

TARGET SPECIES		NON-TARGET SPECIES	
Common Name	Scientific Name	Common Name	Scientific Name
		White-Spotted Guitar	<i>Rhynchobatus australiae</i>
		Teleosts	
		Various	Teleostei
		Marine Mammals	
		Antarctic Minke Whale	<i>Balaenoptera bonaerensis</i>
		Australian Humpback Dolphin	<i>Sousa sahulensis</i>
		Australian Snubfin Dolphin	<i>Orcaella heinsohni</i>
		Bottlenose Dolphin	<i>Tursiops truncatus</i>
		Common Dolphin	<i>Delphinus delphis</i>
		Spinner Dolphin	<i>Stenella longirostris</i>
		Unidentified Dolphin	Delphinidae
		Humpback whales	<i>Megaptera novaeangliae</i>
		Dugong	<i>Dugong dugon</i>
		Marine Turtles	
		Flatback Turtle	<i>Natator depressus</i>
		Green Turtle	<i>Chelonia mydas</i>
		Hawksbill Turtle	<i>Eretmochelys imbricata</i>
		Leatherback Turtle	<i>Dermochelys coriacea</i>
		Loggerhead Turtle	<i>Caretta caretta</i>
		Olive Ridley Turtle	<i>Lepidochelys olivacea</i>
		Other	
		Mudcrab	<i>Scylla serrata</i>

APPENDIX B

SCP CATCH FOR GEAR UNITS

CAIRNS SCP catch by gear unit

TAXA	ELLIS BEACH																									
	DRUMLINE 1 (2001-2018)				DRUMLINE 2 (2001-2018)				DRUMLINE 3 (2001-2018)				DRUMLINE 4 (2001-2018)				DRUMLINE 5 (2001-2018)									
	Target species	Total No.	% Total	Mean No. p.a. (SE) (SE)	Total No.	% Total	Mean No. p.a. (SE) (SE)	Total No. Caught	% Total	Mean No. p.a. (SE) (SE)	Total No.	% Total	Mean No. p.a. (SE) (SE)	Total No.	% Total	Mean No. p.a. (SE) (SE)	Total No.	% Total	Mean No. p.a. (SE) (SE)	Total No.	% Total	Mean No. p.a. (SE) (SE)				
Australian Blacktip	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0			
Bull Whaler	13	13.1	0.72 (0.21)	7	12.5	0.39 (0.12)	7	12.3	0.39 (0.16)	8	15.4	0.44 (0.15)	7	16.3	0.39 (0.12)											
Common Blacktip Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0			
Dusky Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0			
Great Hammerhead	4	4	0.22 (0.13)	3	5.4	0.17 (0.09)	1	1.8	0.06 (0.06)	3	5.8	0.17 (0.09)	0	0		0	0		0	0		0	0			
Long Nose Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0			
Pigeye Whaler	1	1	0.06 (0.06)	0	0		2	3.5	0.11 (0.08)	1	1.9	0.06 (0.06)	0	0		0	0		0	0		0	0			
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0			
Sharptooth Shark	1	1	0.06 (0.06)	2	3.6	0.11 (0.08)	0	0		0	0		0	0		0	0		0	0		0	0			
Silky Whaler	0	0		0	0		0	0		0	0		1	2.3	0.06 (0.06)	21	48.8	1.17 (0.23)								
Tiger Shark	44	44.4	2.44 (0.44)	27	48.2	1.5 (0.2)	34	59.6	1.89 (0.41)	26	50	1.44 (0.35)	21	48.8	1.17 (0.23)											
Non-target species	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)		
Sharks & Rays																										
Aust Sharpnose Shark	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Blacktip Reef Whaler	17	17.2	0.11 (0.08)	0.83 (0.2)	7	12.5	0.06 (0.06)	0.33 (0.16)	6	10.5	0.33 (0.11)	10	19.2	0.56 (0.22)	6	14	0.33 (0.18)									
Creek Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Hardnose Whaler	0	0		1	1.8		0.06 (0.06)	0	0	1	1.9	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0
Milk Shark	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Slit Eye Shark	1	1		0.06 (0.06)	0	0		0	0	0	0		0	0		0	0		0	0		0	0		0	0
Speartooth Shark	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Spot-Tail Whaler	3	3		0.17 (0.09)	1	1.8		0.06 (0.06)	1	1.8		0.06 (0.06)	0	0		1	2.3	0.06 (0.06)							0.06 (0.06)	
White-Cheek Shark	1	1	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Scalloped Hammerhead	10	10.1	0.56 (0.28)	4	7.1	0.22 (0.1)	1	1.8	0.06 (0.06)	1	1.9	0.06 (0.06)	2	4.7	0.11 (0.08)										0.11 (0.08)	
Winged Hammerhead	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Unid. Hammerhead Shark *	1	1		0.06 (0.06)	0	0		0	0	0	0		0	0		0	0		0	0		0	0		0	0
Tawny Shark	3	3	0.17 (0.09)	4	7.1	0.22 (0.13)	5	8.8	0.28 (0.14)	2	3.8	0.11 (0.08)	5	11.6	0.28 (0.11)										0.28 (0.11)	
Zebra Shark	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Manta Ray	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Unidentified Eagle Ray *	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Cownose Ray	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Eastern Shovelnosed Ray	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Unid. Shovelnosed Ray *	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
White-Spotted Guitar	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Narrow Sawfish	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Queensland Sawfish	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Unidentified Sawfish	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Unidentified Ray	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Teleosts																										
Barramundi	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Cod	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Giant Trevally	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Salmon	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Tuna	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Marine Mammals																										
Australian Hb Dolphin	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Australian Snubfin Dolphin	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Bottlenose Dolphin	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Dolphin	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Dugong	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Marine Turtles																										
Flatback Turtle	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Green Turtle	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Hawksbill Turtle	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Loggerhead Turtle	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
Other																										
Mud Crab	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0
TOTAL CATCH	99				56					57				52							43					

CAIRNS SCP catch by gear unit

TAXA	ELLIS BEACH																BUCHANS BEACH PT			
	DRUMLINE 6 (2013-2018)				DRUMLINE 7 (2013-2018)				NET 1 (2001-2013)				NET 2 (2004, 05 & 11)				DRUMLINE 8 (2002-2008)			
	Total No.	% Total	Mean No. (SE)	Mean No. (SE)	Total No.	% Total	Mean No. (SE)	Mean No. (SE)	Total No. Caught	% Total	Mean No. (SE)	Mean No. (SE)	Total No.	% Total	Mean No. (SE)	Mean No. (SE)	Total No.	% Total	Mean No. (SE)	Mean No. (SE)
Australian Blacktip	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	1	8.3	0.17 (0.17)		2	22.2	0.33 (0.21)		0	0			0	0			12	19.4	0.71 (0.17)	
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	0	0			0	0			0	0			0	0			0	0		
Great Hammerhead	0	0			0	0			1	1.1	0.08 (0.08)		0	0			1	1.6	0.06 (0.06)	
Long Nose Whaler	1	8.3	0.17 (0.17)		0	0			0	0			0	0			0	0		
Pigeys Whaler	0	0			0	0			0	0			0	0			1	1.6	0.06 (0.06)	
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0		
Sharpnose Shark	0	0			0	0			0	0			0	0			0	0		
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	7	58.3	1.17 (0.31)		5	55.6	0.83 (0.54)		3	3.2	0.23 (0.12)		0	0			27	43.5	1.59 (0.32)	
Non-target species	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			0	0		
Blacktip Reef Whaler	3	25		0.5 (0.22)	2	22.2		0.33 (0.33)	1	1.1	0.08 (0.08)		0	0			11	17.7		0.65 (0.31)
Creek Whaler	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			1	1.6		0.06 (0.06)
Milk Shark	0	0			0	0			0	0			0	0			0	0		
Slit Eye Shark	0	0			0	0			0	0			0	0			0	0		
Speartooth Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			0	0			2	3.2		0.12 (0.08)
White-Cheek Shark	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			9	9.7	0.69 (0.33)		0	0			4	6.5		0.24 (0.14)
Winged Hammerhead	0	0			0	0			1	1.1	0.08 (0.08)		0	0			0	0		
Unid. Hammerhead Shark *	0	0			0	0			1	1.1	0.08 (0.08)		0	0			0	0		
Tawny Shark	0	0			0	0			10	10.8	0.23 (0.12)	0.54 (0.14)	2	50	0.67 (0.67)		2	3.2	0.06 (0.06)	0.06 (0.06)
Zebra Shark	0	0			0	0			1	1.1	0.08 (0.08)		0	0			0	0		
Manta Ray	0	0			0	0			1	1.1	0.08 (0.08)		0	0			0	0		
Unidentified Eagle Ray *	0	0			0	0			36	38.7	1.62 (0.46)	1.15 (0.25)	1	25	0.33 (0.33)		0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eastern Shovel-nosed Ray	0	0			0	0			1	1.1	0.08 (0.08)		0	0			0	0		
Unid. Shovel-nosed Ray *	0	0			0	0			1	1.1	0.08 (0.08)		1	25	0.33 (0.33)		1	1.6		0.06 (0.06)
White-Spotted Guitar	0	0			0	0			1	1.1	0.08 (0.08)		0	0			0	0		
Narrow Sawfish	0	0			0	0			13	14	0.69 (0.24)	0.31 (0.17)	0	0			0	0		
Queensland Sawfish	0	0			0	0			0	0			0	0			0	0		
Unidentified Sawfish	0	0			0	0			0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Barramundi	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			1	1.1	0.08 (0.08)		0	0			0	0		
Tuna	0	0			0	0			1	1.1	0.08 (0.08)		0	0			0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Flatback Turtle	0	0			0	0			2	2.2	0.15 (0.1)		0	0			0	0		
Green Turtle	0	0			0	0			8	8.6	0.54 (0.18)	0.08 (0.08)	0	0			0	0		
Hawksbill Turtle	0	0			0	0			1	1.1	0.08 (0.08)		0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
Other																				
Mud Crab	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	12				9				93				4				62			

CAIRNS SCP catch by gear unit

TAXA	BUCHANS PT BEACH				DRUMLINE 10 (2001-2018)				DRUMLINE 11 (2001-2018)				PALM COVE BEACH								
	DRUMLINE 9 (2005-2018)												DRUMLINE 12 (2001-2018)				DRUMLINE 13 (2001-2018)				
Target species	Total	%	Mean No. p.a.		Total	%	Mean No. p.a.		Total No.	%	Mean No. p.a.		Total	%	Mean No. p.a.		Total	%	Mean No. p.a.		
	No.	Total	(SE)		No.	Total	(SE)		Caught	Total	(SE)		No.	Total	(SE)		No.	Total	(SE)		
Australian Blacktip	1	2.3	0.07 (0.07)		0	0			0	0			0	0			0	0			
Bull Whaler	3	7	0.21 (0.11)		9	26.5	0.5 (0.15)		2	7.4	0.11 (0.08)		6	37.5	0.33 (0.14)		2	10	0.11 (0.08)		
Common Blacktip Whaler	1	2.3	0.07 (0.07)		0	0			0	0			0	0			0	0			
Dusky Whaler	0	0			0	0			1	3.7	0.06 (0.06)		1	6.3	0.06 (0.06)		0	0			
Great Hammerhead	1	2.3	0.07 (0.07)		3	8.8	0.17 (0.09)		2	7.4	0.11 (0.11)		2	12.5	0.11 (0.08)		0	0			
Long Nose Whaler	1	2.3	0.07 (0.07)		0	0			1	3.7	0.06 (0.06)		0	0			1	5	0.06 (0.06)		
Pigeye Whaler	1	2.3	0.07 (0.07)		1	2.9	0.06 (0.06)		0	0			0	0			0	0			
Sandbar Whaler	2	4.7	0.14 (0.1)		0	0			0	0			0	0			0	0			
Sharptooth Shark	0	0			0	0			1	3.7	0.06 (0.06)		1	6.3	0.06 (0.06)		2	10	0.11 (0.08)		
Silky Whaler	0	0			0	0			0	0			0	0			0	0			
Tiger Shark	23	53.5	1.64 (0.29)		13	38.2	0.72 (0.27)		10	37	0.56 (0.18)		1	6.3	0.06 (0.06)		8	40	0.44 (0.17)		
Non-target species	Total	%	Mean No.	Mean No.	Total	%	Mean No.	Mean No.	Total No.	%	Mean No.	Mean No.	Total	%	Mean No.	Mean No.	Total	%	Mean No.	Mean No.	
	No.	Total	ALIVE (SE)	DEAD (SE)	No.	Total	ALIVE (SE)	DEAD (SE)	Caught	Total	ALIVE (SE)	DEAD (SE)	No.	Total	ALIVE (SE)	DEAD (SE)	No.	Total	ALIVE (SE)	DEAD (SE)	
Sharks & Rays																					
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			0	0			
Blacktip Reef Whaler	6	14	0.43 (0.2)		1	2.9	0.06 (0.06)		4	14.8	0.06 (0.06)		1	6.3	0.06 (0.06)		2	10	0.11 (0.08)		
Creek Whaler	1	2.3	0.07 (0.07)		0	0			1	3.7	0.06 (0.06)		0	0			1	5	0.06 (0.06)		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0			
Milk Shark	0	0			0	0			0	0			0	0			0	0			
Slit Eye Shark	0	0			0	0			0	0			0	0			0	0			
Speartooth Shark	1	2.3	0.07 (0.07)		0	0			1	3.7	0.06 (0.06)		0	0			0	0			
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0			
White-Cheek Shark	0	0			1	2.9	0.06 (0.06)		0	0			0	0			0	0			
Scalloped Hammerhead	0	0			2	5.9	0.11 (0.08)		0	0			0	0			0	0			
Winged Hammerhead	0	0			1	2.9	0.06 (0.06)		0	0			0	0			0	0			
Unid. Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0			
Tawny Shark	2	4.7	0.14 (0.1)		3	8.8	0.11 (0.08)		0.06 (0.06)	4	14.8	0.22 (0.13)		4	25	0.22 (0.13)		4	20	0.17 (0.12)	
Zebra Shark	0	0			0	0			0	0			0	0			0	0			
Manta Ray	0	0			0	0			0	0			0	0			0	0			
Unidentified Eagle Ray *	0	0			0	0			0	0			0	0			0	0			
Cownose Ray	0	0			0	0			0	0			0	0			0	0			
Eastern Shovel-nosed Ray	0	0			0	0			0	0			0	0			0	0			
Unid. Shovel-nosed Ray *	0	0			0	0			0	0			0	0			0	0			
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0			
Narrow Sawfish	0	0			0	0			0	0			0	0			0	0			
Queensland Sawfish	0	0			0	0			0	0			0	0			0	0			
Unidentified Sawfish	0	0			0	0			0	0			0	0			0	0			
Unidentified Ray	0	0			0	0			0	0			0	0			0	0			
Teleosts																					
Barramundi	0	0			0	0			0	0			0	0			0	0			
Cod	0	0			0	0			0	0			0	0			0	0			
Giant Trevally	0	0			0	0			0	0			0	0			0	0			
Salmon	0	0			0	0			0	0			0	0			0	0			
Tuna	0	0			0	0			0	0			0	0			0	0			
Marine Mammals																					
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0			
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0			
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0			
Dolphin	0	0			0	0			0	0			0	0			0	0			
Dugong	0	0			0	0			0	0			0	0			0	0			
Marine Turtles																					
Flatback Turtle	0	0			0	0			0	0			0	0			0	0			
Green Turtle	0	0			0	0			0	0			0	0			0	0			
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0			
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0			
Other																					
Mud Crab	0	0			0	0			0	0			0	0			0	0			
TOTAL CATCH	43				34				27				16				20				

CAIRNS SCP catch by gear unit

TAXA	DRUMLINE 14 (2001-2018)				DRUMLINE 15 (2001-2018)				PALM COVE BEACH DRUMLINE 16 (2001-2018)				DRUMLINE 17 (2013-2018)				DRUMLINE 18 (2013-2018)							
	Total No.	% Total	Mean No. p.a. (SE)	Mean No. ALIVE (SE)	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. p.a. (SE)	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. p.a. (SE)	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	
Australian Blacktip	0	0			0	0			0	0				0	0				0	0				
Bull Whaler	3	11.5	0.17 (0.09)		2	14.3	0.11 (0.08)		5	27.8	0.28 (0.14)			0	0				2	15.4	0.33 (0.21)			
Common Blacktip Whaler	0	0			0	0			0	0				0	0				1	7.7	0.17 (0.17)			
Dusky Whaler	0	0			0	0			0	0				0	0				0	0				
Great Hammerhead	2	7.7	0.11 (0.08)		0	0			0	0				0	0				0	0				
Long Nose Whaler	0	0			1	7.1	0.06 (0.06)		1	5.6	0.06 (0.06)			0	0				0	0				
Pigeys Whaler	0	0			0	0			0	0				0	0				0	0				
Sandbar Whaler	0	0			0	0			0	0				0	0				0	0				
Sharptooth Shark	0	0			0	0			0	0				0	0				0	0				
Silky Whaler	0	0			0	0			0	0				0	0				0	0				
Tiger Shark	9	34.6	0.5 (0.19)		7	50	0.39 (0.14)		6	33.3	0.33 (0.16)			0	0				5	38.5	0.83 (0.4)			
Non-target species	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																								
Aust Sharpnose Shark	0	0			0	0			0	0				0	0				0	0				
Blacktip Reef Whaler	6	23.1		0.33 (0.14)	2	14.3		0.11 (0.08)	5	27.8		0.28 (0.14)		1	33.3		0.17 (0.17)		4	30.8			0.67 (0.49)	
Creek Whaler	0	0			0	0			0	0				0	0				1	7.7			0.17 (0.17)	
Hardnose Whaler	1	3.8		0.06 (0.06)	0	0			0	0				0	0				0	0				
Milk Shark	1	3.8		0.06 (0.06)	0	0			0	0				0	0				0	0				
Slit Eye Shark	0	0			0	0			0	0				1	33.3		0.17 (0.17)		0	0				
Speartooth Shark	0	0			0	0			0	0				0	0				0	0				
Spot-Tail Whaler	0	0			0	0			0	0				0	0				0	0				
White-Cheek Shark	0	0			0	0			0	0				0	0				0	0				
Scalloped Hammerhead	2	7.7		0.11 (0.08)	0	0			0	0				0	0				0	0				
Winged Hammerhead	0	0			1	7.1		0.06 (0.06)	0	0				0	0				0	0				
Unid. Hammerhead Shark *	0	0			0	0			0	0				0	0				0	0				
Tawny Shark	2	7.7	0.11 (0.08)		1	7.1	0.06 (0.06)		1	5.6	0.06 (0.06)			1	33.3	0.17 (0.17)			0	0				
Zebra Shark	0	0			0	0			0	0				0	0				0	0				
Manta Ray	0	0			0	0			0	0				0	0				0	0				
Unidentified Eagle Ray *	0	0			0	0			0	0				0	0				0	0				
Cownose Ray	0	0			0	0			0	0				0	0				0	0				
Eastern Shovelnosed Ray	0	0			0	0			0	0				0	0				0	0				
Unid. Shovelnosed Ray *	0	0			0	0			0	0				0	0				0	0				
White-Spotted Guitar	0	0			0	0			0	0				0	0				0	0				
Narrow Sawfish	0	0			0	0			0	0				0	0				0	0				
Queensland Sawfish	0	0			0	0			0	0				0	0				0	0				
Unidentified Sawfish	0	0			0	0			0	0				0	0				0	0				
Unidentified Ray	0	0			0	0			0	0				0	0				0	0				
Teleosts																								
Barramundi	0	0			0	0			0	0				0	0				0	0				
Cod	0	0			0	0			0	0				0	0				0	0				
Giant Trevally	0	0			0	0			0	0				0	0				0	0				
Salmon	0	0			0	0			0	0				0	0				0	0				
Tuna	0	0			0	0			0	0				0	0				0	0				
Marine Mammals																								
Australian Hb Dolphin	0	0			0	0			0	0				0	0				0	0				
Australian Snubfin Dolphin	0	0			0	0			0	0				0	0				0	0				
Bottlenose Dolphin	0	0			0	0			0	0				0	0				0	0				
Dolphin	0	0			0	0			0	0				0	0				0	0				
Dugong	0	0			0	0			0	0				0	0				0	0				
Marine Turtles																								
Flatback Turtle	0	0			0	0			0	0				0	0				0	0				
Green Turtle	0	0			0	0			0	0				0	0				0	0				
Hawksbill Turtle	0	0			0	0			0	0				0	0				0	0				
Loggerhead Turtle	0	0			0	0			0	0				0	0				0	0				
Other																								
Mud Crab	0	0			0	0			0	0				0	0				0	0				
TOTAL CATCH	26				14				18					3					13					

CAIRNS SCP catch by gear unit

TAXA	PALM COVE BEACH																			
	NET 0 (2001-2003)				NET 2 (2001-2013)				DRUMLINE 19 (2001-2018)				CLIFTON BEACH DRUMLINE 20 (2001-2018)				DRUMLINE 21 (2013-2018)			
	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Australian Blacktip	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	1	12.5	0.33 (0.33)		0	0			1	2.4	0.06 (0.06)		9	25	0.5 (0.17)		1	11.1	0.17 (0.17)	
Common Blacktip Whaler	0	0			0	0			0	0			1	2.8	0.06 (0.06)		0	0		
Dusky Whaler	0	0			0	0			1	2.4	0.06 (0.06)		0	0			0	0		
Great Hammerhead	0	0			0	0			3	7.1	0.17 (0.12)		0	0			0	0		
Long Nose Whaler	0	0			0	0			0	0			1	2.8	0.06 (0.06)		0	0		
Pigeys Whaler	0	0			0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			2	4.8	0.11 (0.08)		0	0			0	0		
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	0	0			0	0			17	40.5	0.94 (0.29)		13	36.1	0.72 (0.21)		1	11.1	0.17 (0.17)	
Non-target species	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			0	0		
Blacktip Reef Whaler	0	0			0	0			13	31	0.72 (0.23)		7	19.4	0.39 (0.14)		5	55.6	0.83 (0.31)	
Creek Whaler	0	0			0	0			1	2.4	0.06 (0.06)		0	0			1	11.1	0.17 (0.17)	
Hardnose Whaler	0	0			0	0			0	0			0	0			1	11.1	0.17 (0.17)	
Milk Shark	0	0			0	0			0	0			0	0			0	0		
Silt Eye Shark	0	0			0	0			0	0			0	0			0	0		
Speartooth Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0		
White-Cheek Shark	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	1	12.5		0.33 (0.33)	2	5.4		0.15 (0.1)	3	7.1	0.17 (0.09)		4	11.1	0.22 (0.15)		0	0		
Winged Hammerhead	0	0			0	0			0	0			0	0			0	0		
Unid. Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	1	12.5		0.33 (0.33)	5	13.5		0.15 (0.1)	1	2.4	0.06 (0.06)		1	2.8	0.06 (0.06)		0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			1	2.7		0.08 (0.08)	0	0			0	0			0	0		
Unidentified Eagle Ray *	2	25		0.67 (0.67)	11	29.7		0.31 (0.13)	0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eastern Shovel-nosed Ray	0	0			0	0			0	0			0	0			0	0		
Unid. Shovel-nosed Ray *	1	12.5		0.33 (0.33)	2	5.4		0.08 (0.08)	0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Narrow Sawfish	1	12.5		0.33 (0.33)	5	13.5		0.23 (0.12)	0	0			0	0			0	0		
Queensland Sawfish	0	0			1	2.7		0.08 (0.08)	0	0			0	0			0	0		
Unidentified Sawfish	0	0			1	2.7		0.08 (0.08)	0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Barramundi	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			1	2.7		0.08 (0.08)	0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			2	5.4		0.15 (0.1)	0	0			0	0			0	0		
Australian Shubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			1	2.7		0.08 (0.08)	0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Flatback Turtle	0	0			0	0			0	0			0	0			0	0		
Green Turtle	1	12.5		0.33 (0.33)	2	5.4		0.08 (0.08)	0	0			0	0			0	0		
Hawksbill Turtle	0	0			1	2.7		0.08 (0.08)	0	0			0	0			0	0		
Loggerhead Turtle	0	0			1	2.7		0.08 (0.08)	0	0			0	0			0	0		
Other																				
Mud Crab	0	0			1	2.7		0.08 (0.08)	0	0			0	0			0	0		
TOTAL CATCH	8				37				42				36				9			

CAIRNS SCP catch by gear unit

TAXA	CLIFTON BEACH												TRINITY BEACH							
	DRUMLINE 22 (2015-2018)				NET 0 (2001-2003)				NET 3 (2002-2012)				DRUMLINE 23 (2002-2018)		DRUMLINE 24 (2002-2018)					
	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. p.a. (SE)	Mean No. ALIVE (SE)	Mean No. DEAD (SE)			
Australian Blacktip	0	0			0	0			0	0			0	0						
Bull Whaler	0	0			0	0			1	2.6	0.09 (0.09)		5	8.3	0.29 (0.11)	3	8.8			
Common Blacktip Whaler	1	10	0.2 (0.22)		0	0			0	0			0	0		1	2.9			
Dusky Whaler	0	0			0	0			0	0			1	1.7	0.06 (0.06)	0	0			
Great Hammerhead	0	0			2	33.3	1 (0)		0	0			1	1.7	0.06 (0.06)	1	2.9			
Long Nose Whaler	0	0			0	0			0	0			0	0		0	0			
Pigeys Whaler	1	10	0.2 (0.22)		0	0			0	0			0	0		0	0			
Sandbar Whaler	0	0			0	0			0	0			0	0		0	0			
Sharptooth Shark	0	0			0	0			0	0			0	0		0	0			
Silky Whaler	0	0			0	0			0	0			0	0		0	0			
Tiger Shark	2	20	0.4 (0.27)		0	0			0	0			35	58.3	2.06 (0.52)	15	44.1			
Non-target species	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			1	2.9		0.06 (0.06)
Blacktip Reef Whaler	2	20		0.5 (0.5)	0	0			0	0			12	20	0.71 (0.17)	9	26.5		0.53 (0.21)	
Creek Whaler	1	10		0.25 (0.25)	0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Milk Shark	0	0			0	0			0	0			1	1.7	0.06 (0.06)	0	0			
Silt Eye Shark	1	10		0.25 (0.25)	0	0			0	0			1	1.7	0.06 (0.06)	0	0			
Speartooth Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			1	1.7	0.06 (0.06)	0	0			
White-Cheek Shark	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	1	10		0.25 (0.25)	1	16.7		0.5 (0.5)	2	5.1		0.18 (0.12)	1	1.7	0.06 (0.06)	2	5.9		0.12 (0.08)	
Winged Hammerhead	0	0			0	0			0	0			0	0			0	0		
Unid. Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	1	10		0.25 (0.25)	0	0			2	5.1	0.18 (0.12)		1	1.7	0.06 (0.06)	2	5.9		0.06 (0.06)	0.06 (0.06)
Zebra Shark	0	0			0	0			2	5.1	0.09 (0.09)	0.09 (0.09)	0	0			0	0		
Manta Ray	0	0			0	0			2	5.1	0.18 (0.12)		0	0			0	0		
Unidentified Eagle Ray *	0	0			2	33.3	0.5 (0.5)	0.5 (0.5)	14	35.9	0.82 (0.23)	0.45 (0.21)	0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eastern Shovel-nosed Ray	0	0			0	0			0	0			0	0			0	0		
Unid. Shovel-nosed Ray *	0	0			0	0			1	2.6	0.09 (0.09)		0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Narrow Sawfish	0	0			0	0			4	10.3	0.09 (0.09)	0.27 (0.14)	0	0			0	0		
Queensland Sawfish	0	0			0	0			0	0			0	0			0	0		
Unidentified Sawfish	0	0			0	0			1	2.6	0.09 (0.09)		0	0			0	0		
Unidentified Ray	0	0			0	0			1	2.6	0.09 (0.09)		0	0			0	0		
Teleosts																				
Barramundi	0	0			0	0			1	2.6	0.09 (0.09)		0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			1	1.7	0.06 (0.06)	0	0			
Salmon	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			1	16.7		0.5 (0.5)	0	0			0	0			0	0		
Australian Snubfin Dolphin	0	0			0	0			1	2.6	0.09 (0.09)		0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Flatback Turtle	0	0			0	0			0	0			0	0			0	0		
Green Turtle	0	0			0	0			5	12.8	0.18 (0.12)	0.27 (0.14)	0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			2	5.1	0.18 (0.12)		0	0			0	0		
Other																				
Mud Crab	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	10				6				39				60				34			

CAIRNS SCP catch by gear unit

Target species	DRUMLINE 25 (2002-2018)				DRUMLINE 26 (2013-2018)				TRINITY BEACH DRUMLINE 27 (2013-2018)				DRUMLINE 28 (2013-2018)				NET 0 (2001-2002)			
	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)
	No.		ALIVE (SE)		No.		ALIVE (SE)		Caught		ALIVE (SE)		No.		ALIVE (SE)		No.		ALIVE (SE)	
Australian Blacktip	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	3	8.1	0.18 (0.1)		0	0			1	7.1	0.17 (0.17)		0	0			1	20	0.5 (0.5)	
Common Blacktip Whaler	0	0			2	22.2	0.33 (0.21)		0	0			0	0			0	0		
Dusky Whaler	0	0			0	0			0	0			0	0			0	0		
Great Hammerhead	1	2.7	0.06 (0.06)		0	0			0	0			1	8.3	0.17 (0.17)		0	0		
Long Nose Whaler	0	0			0	0			0	0			0	0			0	0		
Pigeon Whaler	0	0			0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			0	0			0	0			0	0		
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	23	62.2	1.35 (0.42)		4	44.4	0.67 (0.33)		7	50	1.17 (0.31)		6	50	1 (0.37)		0	0		
Non-target species	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			0	0		
Blacktip Reef Whaler	6	16.2		0.35 (0.15)	1	11.1		0.17 (0.17)	5	35.7		0.83 (0.48)	3	25		0.5 (0.34)	0	0		
Creek Whaler	0	0			0	0			1	7.1		0.17 (0.17)	0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Milk Shark	0	0			0	0			0	0			0	0			0	0		
Slit Eye Shark	1	2.7		0.06 (0.06)	0	0			0	0			0	0			0	0		
Speartooth Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	1	2.7		0.06 (0.06)	0	0			0	0			1	8.3		0.17 (0.17)	0	0		
White-Cheek Shark	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	1	2.7		0.06 (0.06)	0	0			0	0			0	0			0	0		
Winged Hammerhead	1	2.7		0.06 (0.06)	0	0			0	0			0	0			0	0		
Unid. Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			2	22.2	0.33 (0.21)		0	0			1	8.3	0.17 (0.17)		2	40	0.5 (0.5)	0.5 (0.5)
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Unidentified Eagle Ray *	0	0			0	0			0	0			0	0			1	20	0.5 (0.5)	
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eastern Shovel-nosed Ray	0	0			0	0			0	0			0	0			0	0		
Unid. Shovel-nosed Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Narrow Sawfish	0	0			0	0			0	0			0	0			0	0		
Queensland Sawfish	0	0			0	0			0	0			0	0			0	0		
Unidentified Sawfish	0	0			0	0			0	0			0	0			1	0		
Unidentified Ray	0	0			0	0			0	0			0	0			1	20	0.5 (0.5)	
Teleosts																				
Barramundi	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Flatback Turtle	0	0			0	0			0	0			0	0			0	0		
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
Other																				
Mud Crab	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	37				9				14				12				5			

CAIRNS SCP catch by gear unit

TAXA	TRINITY BEACH NET 4 (2001-2002)				DRUMLINE 29 (2002-2018)				YORKEYS KNOB BEACH DRUMLINE 30 (2001-2018)				DRUMLINE 31 (2013-2018)				DRUMLINE 32 (2013-2018)			
	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)
Australian Blacktip	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	1	2.1	0.08 (0.08)		9	29	0.53 (0.3)		2	12.5	0.11 (0.08)		0	0			0	0		
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	0	0			0	0			1	6.3	0.06 (0.06)		0	0			0	0		
Great Hammerhead	1	2.1	0.08 (0.08)		4	12.9	0.24 (0.14)		0	0			0	0			0	0		
Long Nose Whaler	0	0			1	3.2	0.06 (0.06)		0	0			0	0			0	0		
Pigeye Whaler	0	0			0	0			0	0			0	0			1	20		0.17 (0.17)
Sandbar Whaler	0	0			1	3.2	0.06 (0.06)		0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			1	6.3	0.06 (0.06)		0	0			0	0		
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	1	2.1	0.08 (0.08)		8	25.8	0.47 (0.19)		6	37.5	0.33 (0.16)		0	0			3	60		0.5 (0.34)
Non-target species	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			0	0		
Blacktip Reef Whaler	0	0			6	19.4		0.35 (0.19)	5	31.3		0.28 (0.14)	3	60		0.5 (0.34)	0	0		
Creek Whaler	0	0			0	0			0	0			0	0			1	20		0.17 (0.17)
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Milk Shark	0	0			0	0			0	0			0	0			0	0		
Slit Eye Shark	0	0			0	0			0	0			0	0			0	0		
Speartooth Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0		
White-Cheek Shark	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	4	8.3		0.36 (0.2)	2	6.5		0.12 (0.08)	1	6.3		0.06 (0.06)	0	0			0	0		
Winged Hammerhead	1	2.1		0.09 (0.09)	0	0			0	0			0	0			0	0		
Unid. Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	2	4.2	0.09 (0.09)	0.09 (0.09)	0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Unidentified Eagle Ray *	24	50	1.36 (0.28)	0.82 (0.23)	0	0			0	0			0	0			0	0		
Cownose Ray	1	2.1	0.09 (0.09)		0	0			0	0			0	0			0	0		
Eastern Shovel nosed Ray	1	2.1	0.09 (0.09)		0	0			0	0			0	0			0	0		
Unid. Shovel nosed Ray *	0	0			0	0			0	0			1	20		0.17 (0.17)	0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Narrow Sawfish	7	14.6	0.36 (0.15)	0.27 (0.27)	0	0			0	0			0	0			0	0		
Queensland Sawfish	0	0			0	0			0	0			0	0			0	0		
Unidentified Sawfish	1	2.1	0.09 (0.09)		0	0			0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Barramundi	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Hb Dolphin	1	2.1		0.09 (0.09)	0	0			0	0			0	0			0	0		
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	1	2.1		0.09 (0.09)	0	0			0	0			0	0			0	0		
Marine Turtles																				
Flatback Turtle	1	2.1		0.09 (0.09)	0	0			0	0			0	0			0	0		
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	1	2.1	0.09 (0.09)		0	0			0	0			0	0			0	0		
Other																				
Mud Crab	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	48				31				16				5				5			

CAIRNS SCP catch by gear unit

TAXA	YORKEYS KNOB BEACH												HOLLOWAYS BEACH							
	DRUMLINE 33 (2013-2018)				NET 0 (2001-2003)				NET 5 (2001-2013)				DRUMLINE 34 (2002-2018)			DRUMLINE 35 (2002-2018)				
	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. p.a. (SE)	Total No.	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	
Australian Blacktip	0	0			0	0			0	0			0	0		1	2.1	0.06 (0.06)		
Bull Whaler	0	0			0	0			6	6.3	0.46 (0.27)		4	14.3	0.24 (0.14)	3	6.3	0.18 (0.1)		
Common Blacktip Whaler	0	0			0	0			0	0			0	0		0	0			
Dusky Whaler	0	0			0	0			0	0			0	0		1	2.1	0.06 (0.06)		
Great Hammerhead	0	0			1	9.1	0.33 (0.33)		1	1.1	0.08 (0.08)		0	0		0	0			
Long Nose Whaler	0	0			0	0			0	0			0	0		0	0			
Pigeon Whaler	0	0			0	0			0	0			0	0		1	2.1	0.06 (0.06)		
Sandbar Whaler	0	0			0	0			0	0			0	0		0	0			
Sharptooth Shark	0	0			0	0			2	2.1	0.15 (0.1)		0	0		0	0			
Silky Whaler	0	0			0	0			0	0			0	0		0	0			
Tiger Shark	0	0			1	9.1	0.33 (0.33)		0	0			10	35.7	0.59 (0.21)	17	35.4	1 (0.24)		
Non-target species	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			0	0			0	0			0	0		0	0			
Blacktip Reef Whaler	1	50		0.17 (0.17)	0	0			0	0			9	32.1	0.53 (0.17)	16	33.3		0.94 (0.23)	
Creek Whaler	0	0			0	0			0	0			0	0		1	2.1		0.06 (0.06)	
Hardnose Whaler	0	0			0	0			0	0			0	0		0	0			
Milk Shark	0	0			0	0			0	0			0	0		0	0			
Slit Eye Shark	0	0			0	0			0	0			0	0		0	0			
Speartooth Shark	0	0			0	0			0	0			0	0		0	0			
Spot-Tail Whaler	0	0			0	0			0	0			1	3.6	0.06 (0.06)	3	6.3		0.18 (0.1)	
White-Cheek Shark	0	0			0	0			0	0			1	3.6	0.06 (0.06)	0	0			
Scalloped Hammerhead	0	0			6	54.5		2 (1.53)	6	6.3	0.46 (0.31)		3	10.7	0.18 (0.13)	4	8.3		0.24 (0.14)	
Winged Hammerhead	0	0			0	0			0	0			0	0		0	0			
Unid. Hammerhead Shark *	0	0			0	0			0	0			0	0		0	0			
Tawny Shark	1	50	0.17 (0.17)		0	0			6	6.3	0.46 (0.18)		0	0		1	2.1	0.06 (0.06)		
Zebra Shark	0	0			0	0			0	0			0	0		0	0			
Manta Ray	0	0			0	0			0	0			0	0		0	0			
Unidentified Eagle Ray *	0	0			0	0			45	47.4	2.15 (0.54)	1.31 (0.26)	0	0		0	0			
Cownose Ray	0	0			0	0			0	0			0	0		0	0			
Eastern Shovel-nosed Ray	0	0			0	0			0	0			0	0		0	0			
Unid. Shovel-nosed Ray *	0	0			0	0			4	4.2	0.23 (0.12)	0.08 (0.08)	0	0		0	0			
White-Spotted Guitar	0	0			0	0			0	0			0	0		0	0			
Narrow Sawfish	0	0			1	9.1		0.33 (0.33)	6	6.3	0.15 (0.1)	0.31 (0.13)	0	0		0	0			
Queensland Sawfish	0	0			0	0			0	0			0	0		0	0			
Unidentified Sawfish	0	0			0	0			1	1.1		0.08 (0.08)	0	0		0	0			
Unidentified Ray	0	0			0	0			0	0			0	0		0	0			
Teleosts																				
Barramundi	0	0			0	0			1	1.1		0.08 (0.08)	0	0		0	0			
Cod	0	0			0	0			1	1.1	0.08 (0.08)		0	0		0	0			
Giant Trevally	0	0			0	0			0	0			0	0		0	0			
Salmon	0	0			0	0			0	0			0	0		0	0			
Tuna	0	0			0	0			1	1.1		0.08 (0.08)	0	0		0	0			
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0			0	0		0	0			
Australian Snubfin Dolphin	0	0			0	0			1	1.1		0.08 (0.08)	0	0		0	0			
Bottlenose Dolphin	0	0			0	0			2	2.1	0.15 (0.15)		0	0		0	0			
Dolphin	0	0			0	0			0	0			0	0		0	0			
Dugong	0	0			0	0			1	1.1		0.08 (0.08)	0	0		0	0			
Marine Turtles																				
Flatback Turtle	0	0			0	0			0	0			0	0		0	0			
Green Turtle	0	0			2	18.2	0.33 (0.33)	0.33 (0.33)	10	10.5	0.62 (0.21)	0.15 (0.1)	0	0		0	0			
Hawksbill Turtle	0	0			0	0			0	0			0	0		0	0			
Loggerhead Turtle	0	0			0	0			1	1.1		0.08 (0.08)	0	0		0	0			
Other																				
Mud Crab	0	0			0	0			0	0			0	0		0	0			
TOTAL CATCH	2				11				95				28			48				

CAIRNS SCP catch by gear unit

TAXA	DRUMLINE 36 (2002-2018)				HOLLOWAYS BEACH				DRUMLINE 38 (2013-2018)			
	Total	%	Mean No. p.a.		Total	%	Mean No. p.a.		Total No.	% Total	Mean No. p.a.	
Target species	No.	Total	(SE)		No.	Total	(SE)		Caught		(SE)	
Australian Blacktip	0	0			0	0			0	0		
Bull Whaler	11	23.9	0.65 (0.21)		1	5.6	0.17 (0.17)		2	28.6	0.33 (0.21)	
Common Blacktip Whaler	0	0			0	0			1	14.3	0.17 (0.17)	
Dusky Whaler	0	0			0	0			0	0		
Great Hammerhead	1	2.2	0.06 (0.06)		0	0			0	0		
Long Nose Whaler	0	0			0	0			1	14.3	0.17 (0.17)	
Pigeye Whaler	1	2.2	0.06 (0.06)		0	0			1	14.3	0.17 (0.17)	
Sandbar Whaler	0	0			0	0			0	0		
Sharptooth Shark	0	0			1	5.6	0.17 (0.17)		0	0		
Silky Whaler	1	2.2	0.06 (0.06)		0	0			0	0		
Tiger Shark	18	39.1	1.06 (0.3)		6	33.3	1 (0.45)		1	14.3	0.17 (0.17)	
Non-target species	Total	%	Mean No.	Mean No.	Total	%	Mean No.	Mean No.	Total No.	% Total	Mean No.	Mean No.
	No.	Total	ALIVE (SE)	DEAD (SE)	No.	Total	ALIVE (SE)	DEAD (SE)	Caught		ALIVE (SE)	DEAD (SE)
Sharks & Rays												
Aust Sharpnose Shark	0	0			0	0			0	0		
Blacktip Reef Whaler	10	21.7		0.59 (0.19)	7	38.9		1.17 (0.48)	1	14.3		0.17 (0.17)
Creek Whaler	0	0			1	5.6		0.17 (0.17)	0	0		
Hardnose Whaler	0	0			0	0			0	0		
Milk Shark	0	0			0	0			0	0		
Slit Eye Shark	0	0			0	0			0	0		
Speartooth Shark	0	0			0	0			0	0		
Spot-Tail Whaler	1	2.2		0.06 (0.06)	2	11.1		0.33 (0.21)	0	0		
White-Cheek Shark	0	0			0	0			0	0		
Scalloped Hammerhead	2	4.3		0.12 (0.08)	0	0			0	0		
Winged Hammerhead	0	0			0	0			0	0		
Unid. Hammerhead Shark *	0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0		
Zebra Shark	1	2.2	0.06 (0.06)		0	0			0	0		
Manta Ray	0	0			0	0			0	0		
Unidentified Eagle Ray *	0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0		
Eastern Shovelnosed Ray	0	0			0	0			0	0		
Unid. Shovelnosed Ray *	0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0		
Narrow Sawfish	0	0			0	0			0	0		
Queensland Sawfish	0	0			0	0			0	0		
Unidentified Sawfish	0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0		
Teleosts												
Barramundi	0	0			0	0			0	0		
Cod	0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0		
Salmon	0	0			0	0			0	0		
Tuna	0	0			0	0			0	0		
Marine Mammals												
Australian Hb Dolphin	0	0			0	0			0	0		
Australian Snubfin Dolphin	0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0		
Dugong	0	0			0	0			0	0		
Marine Turtles												
Flatback Turtle	0	0			0	0			0	0		
Green Turtle	0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0		
Other												
Mud Crab	0	0			0	0			0	0		
TOTAL CATCH	46				18				7			

TOWNSVILLE SCP catch per gear unit

TAXA	PALLARENDA BEACH									THE STRAND BEACH								
	DRUMLINE 43 (2001-2018)			DRUMLINE 44 (2001-2018)			DRUMLINE 45 (2001-2018)			DRUMLINE 46 (2001-2018)			DRUMLINE 47 (2001-2018)					
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)			
Bull Whaler	6	16.2	0.33 (0.14)	4	12.9	0.22 (0.13)	4	15.4	0.22 (0.13)	4	12.9	0.22 (0.1)	10	27.8	0.56 (0.18)			
Common Blacktip Whaler	2	5.4	0.11 (0.08)	1	3.2	0.06 (0.06)	0	0		0	0		0	0				
Dusky Whaler	1	2.7	0.06 (0.06)	0	0		0	0		0	0		0	0				
Great Hammerhead	2	5.4	0.11 (0.08)	0	0		1	3.8	0.06 (0.06)	0	0		1	2.8	0.06 (0.06)			
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0				
Long Nose Whaler	1	2.7	0.06 (0.06)	1	3.2	0.06 (0.06)	0	0		0	0		0	0				
Pigeon Whaler	1	2.7	0.06 (0.06)	1	3.2	0.06 (0.06)	0	0		1	3.2	0.06 (0.06)	3	8.3	0.17 (0.12)			
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0				
Sharptooth Shark	0	0		1	3.2	0.06 (0.06)	2	7.7	0.11 (0.08)	1	3.2	0.06 (0.06)	0	0				
Tiger Shark	5	13.5	0.28 (0.11)	4	12.9	0.22 (0.1)	7	26.9	0.39 (0.14)	4	12.9	0.22 (0.17)	2	5.6	0.11 (0.08)			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)		
Sharks & Rays																		
Blacktip Reef Whaler	0	0			1	3.2		0.06 (0.06)	0	0			0	6.5		0.11 (0.11)		
Creek Whaler	0	0			0	0			0	0			0	0				
Graceful Whaler	1	2.7		0.06 (0.06)	0	0			0	0			0	0				
Milk Shark	0	0			0	0			0	0			0	0				
Nervous Shark	0	0			0	0			0	0			0	0				
Spot-Tail Whaler	7	18.9		0.39 (0.16)	6	19.4		0.33 (0.14)	7	26.9		0.39 (0.2)	11	35.5		0.61 (0.16)		
White-Cheek Shark	0	0			0	0			1	3.8		0.06 (0.06)	1	3.2		0.06 (0.06)		
Unidentified Whaler	0	0			0	0			0	0			0	0				
Scalloped Hammerhead	0	0			0	0			0	0			0	0				
Hammerhead Shark *	0	0			0	0			0	0			0	0				
Tawny Shark	4	10.8	0.22 (0.1)		3	9.7	0.17 (0.09)		1	3.8	0.06 (0.06)		5	16.1	0.28 (0.11)			
Zebra Shark	0	0			0	0			0	0			0	0				
Unidentified Shark	0	0			0	0			0	0			0	0				
Manta Ray	0	0			0	0			0	0			0	0				
Shark Ray	0	0			1	3.2	0.06 (0.06)		0	0			0	0				
Bull Ray	0	0			0	0			0	0			0	0				
Devilray *	0	0			0	0			0	0			0	0				
Giant Shovel-nosed Ray	0	0			0	0			0	0			0	0				
Fantail Ray	0	0			0	0			0	0			0	0				
Reticulate Whipray	0	0			0	0			0	0			0	0				
White-Spotted Guitar Fish	2	5.4		0.11 (0.08)	2	6.5		0.11 (0.08)	0	0			0	0				
White-Spotted Eagle Ray	1	2.7	0.06 (0.06)		0	0			0	0			0	0				
Unidentified Ray	0	0			0	0			0	0			0	0				
Teleosts																		
Barracuda	0	0			0	0			0	0			0	0				
Catfish	3	8.1		0.17 (0.09)	3	9.7	0.06 (0.06)	0.11 (0.08)	1	3.8		0.06 (0.06)	2	6.5		0.11 (0.08)		
Cod	0	0			0	0			0	0			0	0				
Giant Trevally	0	0			0	0			0	0			0	0				
Groper, Qld	1	2.7	0.06 (0.06)		3	9.7	0.17 (0.09)		2	7.7	0.11 (0.08)		0	0				
Queen Fish	0	0			0	0			0	0			0	0				
Unidentified Fish	0	0			0	0			0	0			0	0				
Marine Mammals																		
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0				
Spinner Dolphin	0	0			0	0			0	0			0	0				
Dugong	0	0			0	0			0	0			0	0				
Marine Turtles																		
Green Turtle	0	0			0	0			0	0			0	0				
Loggerhead Turtle	0	0			0	0			0	0			0	0				
TOTAL CATCH	37				31				26				31				36	

TOWNSVILLE SCP catch per gear unit

TAXA	THE STRAND BEACH																			
	DRUMLINE 48 (2001-2018)				DRUMLINE 49 (2001-2018)				DRUMLINE 50 (2001-2018)				DRUMLINE 51 (2001-2018)				DRUMLINE 52 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	
Bull Whaler	6	19.4	0.33 (0.14)		10	34.5	0.56 (0.15)		3	13.6	0.17 (0.12)		9	64.3	0.5 (0.17)		5	20.8	0.28 (0.11)	
Common Blacktip Whaler	1	3.2	0.06 (0.06)		1	3.4	0.06 (0.06)		1	4.5	0.06 (0.06)		0	0			0	0		
Dusky Whaler	0	0			0	0			0	0			0	0			0	0		
Great Hammerhead	1	3.2	0.06 (0.06)		1	3.4	0.06 (0.06)		1	4.5	0.06 (0.06)		0	0			2	8.3	0.11 (0.08)	
Grey Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Long Nose Whaler	1	3.2	0.06 (0.06)		0	0			0	0			0	0			1	4.2	0.06 (0.06)	
Pigeon Whaler	1	3.2	0.06 (0.06)		0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0		
Sharptooth Shark	1	3.2	0.06 (0.06)		0	0			0	0			0	0			0	0		
Tiger Shark	3	9.7	0.17 (0.12)		2	6.9	0.11 (0.08)		2	9.1	0.11 (0.08)		1	7.1	0.06 (0.06)		2	8.3	0.11 (0.08)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			1	3.4		0.06 (0.06)	0	0			0	0			1	4.2		0.06 (0.06)
Creek Whaler	0	0			0	0			0	0			0	0			0	0		
Graceful Whaler	0	0			1	3.4		0.06 (0.06)	1	4.5		0.06 (0.06)	0	0			0	0		
Milk Shark	0	0			0	0			0	0			0	0			0	0		
Nervous Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	7	22.6		0.39 (0.16)	6	20.7		0.33 (0.14)	4	18.2		0.22 (0.17)	1	7.1		0.06 (0.06)	4	16.7		0.22 (0.13)
White-Cheek Shark	1	3.2		0.06 (0.06)	1	3.4		0.06 (0.06)	1	4.5		0.06 (0.06)	0	0			0	0		
Unidentified Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	5	16.1	0.28 (0.11)		2	6.9	0.11 (0.08)		3	13.6	0.17 (0.12)		0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Unidentified Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	1	3.2	0.06 (0.06)		0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Giant Shovel-nosed Ray	0	0			0	0			0	0			0	0			0	0		
Fantail Ray	0	0			0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			0	0			0	0			1	4.2	0.06 (0.06)	
White-Spotted Guitar Fish	0	0			0	0			0	0			2	14.3		0.11 (0.08)	0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Barracuda	0	0			0	0			0	0			0	0			0	0		
Catfish	3	9.7		0.17 (0.09)	4	13.8	0.06 (0.06)	0.17 (0.12)	2	9.1	0.06 (0.06)	0.06 (0.06)	0	0			2	8.3		0.11 (0.08)
Cod	0	0			0	0			0	0			0	0			1	4.2		0.06 (0.06)
Giant Trevally	0	0			0	0			1	4.5		0.06 (0.06)	0	0			2	8.3		0.11 (0.11)
Groper , Qld	0	0			0	0			2	9.1	0.11 (0.08)		0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Unidentified Fish	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			1	4.5	0.06 (0.06)		1	7.1	0.06 (0.06)		3	12.5	0.11 (0.08)	0.06 (0.06)
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	31				29				22				14				24			

TOWNSVILLE SCP catch per gear unit

TAXA	THE STRAND BEACH								PICNIC BAY													
	DRUMLINE 53 (2001-2018)			DRUMLINE 54 (2001-2018)					DRUMLINE 1 (2001-2018)			DRUMLINE 2 (2001-2018)				DRUMLINE 3 (2001-2018)						
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)			
Bull Whaler	1	14.3	0.06 (0.06)	3	30	0.17 (0.09)		0	0			2	10	0.11 (0.08)		0	0					
Common Blacktip Whaler	0	0		0	0			1	4.2	0.06 (0.06)		1	5	0.06 (0.06)		1	5.9	0.06 (0.06)				
Dusky Whaler	0	0		0	0			0	0			0	0			0	0					
Great Hammerhead	1	14.3	0.06 (0.06)	0	0			3	12.5	0.17 (0.09)		0	0			0	0					
Grey Reef Whaler	0	0		0	0			0	0			0	0			1	5.9	0.06 (0.06)				
Long Nose Whaler	0	0		0	0			0	0			0	0			0	0					
Pigeye Whaler	0	0		0	0			0	0			0	0			0	0					
Sandbar Whaler	0	0		0	0			0	0			0	0			0	0					
Sharptooth Shark	0	0		1	10	0.06 (0.06)		0	0			1	5	0.06 (0.06)		0	0					
Tiger Shark	0	0		0	0			5	20.8	0.28 (0.14)		0	0			1	5.9	0.06 (0.06)				
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)		
Sharks & Rays																						
Blacktip Reef Whaler	0	0			0	0			4	16.7		0.22 (0.1)		8	40		0.44 (0.12)		1	5.9	0.06 (0.06)	
Creek Whaler	0	0			0	0			0	0				0	0				1	5.9	0.06 (0.06)	
Graceful Whaler	0	0			0	0			0	0				0	0				0	0		
Milk Shark	0	0			1	10		0.06 (0.06)	0	0				0	0				0	0		
Nervous Shark	0	0			0	0			0	0				0	0				0	0		
Spot-Tail Whaler	2	28.6		0.11 (0.08)	0	0			1	4.2		0.06 (0.06)		0	0				2	11.8	0.11 (0.08)	
White-Cheek Shark	0	0			0	0			0	0				0	0				0	0		
Unidentified Whaler	0	0			0	0			0	0				0	0				0	0		
Scalloped Hammerhead	0	0			0	0			0	0				0	0				0	0		
Hammerhead Shark *	0	0			0	0			1	4.2		0.06 (0.06)		0	0				0	0		
Tawny Shark	1	14.3	0.06 (0.06)		0	0			5	20.8	0.22 (0.1)	0.06 (0.06)		5	25	0.22 (0.17)	0.06 (0.06)		5	29.4	0.22 (0.13)	0.06 (0.06)
Zebra Shark	0	0			0	0			1	4.2		0.06 (0.06)		0	0				0	0		
Unidentified Shark	0	0			0	0			0	0				0	0				0	0		
Manta Ray	0	0			0	0			0	0				0	0				0	0		
Shark Ray	0	0			0	0			0	0				0	0				0	0		
Bull Ray	0	0			0	0			0	0				0	0				0	0		
Devilray *	0	0			0	0			0	0				0	0				0	0		
Giant Shovel-nosed Ray	0	0			1	10	0.06 (0.06)		0	0				0	0				0	0		
Fantail Ray	0	0			0	0			0	0				0	0				0	0		
Reticulate Whipray	0	0			0	0			0	0				1	5		0.06 (0.06)		0	0		
White-Spotted Guitar Fish	0	0			1	10		0.06 (0.06)	0	0				0	0				0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0				0	0				0	0		
Unidentified Ray	1	14.3	0.06 (0.06)		0	0			0	0				1	5	0.06 (0.06)			0	0		
Teleosts																						
Barracuda	0	0			0	0			0	0				0	0				0	0		
Catfish	1	14.3		0.06 (0.06)	1	10		0.06 (0.06)	1	4.2	0.06 (0.06)			1	5		0.06 (0.06)		0	0		
Cod	0	0			0	0			0	0				0	0				0	0		
Giant Trevally	0	0			0	0			0	0				0	0				0	0		
Groper , Qld	0	0			1	10	0.06 (0.06)		0	0				0	0				0	0		
Queen Fish	0	0			0	0			0	0				0	0				0	0		
Unidentified Fish	0	0			0	0			0	0				0	0				0	0		
Marine Mammals																						
Australian Snubfin Dolphin	0	0			0	0			0	0				0	0				0	0		
Spinner Dolphin	0	0			0	0			0	0				0	0				0	0		
Dugong	0	0			0	0			0	0				0	0				0	0		
Marine Turtles																						
Green Turtle	0	0			1	10		0.06 (0.06)	2	8.3	0.11 (0.08)			0	0				4	23.5	0.22 (0.1)	
Loggerhead Turtle	0	0			0	0			0	0				0	0				1	5.9	0.06 (0.06)	
TOTAL CATCH	7				10				24					20					17			

TOWNSVILLE SCP catch per gear unit

TAXA	PICNIC BAY								HORSESHOE BAY											
	DRUMLINE 4 (2005-2018)				DRUMLINE 5 (2005-2018)				DRUMLINE 31 (2001-2018)				DRUMLINE 32 (2001-2018)				DRUMLINE 33 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)
Bull Whaler	0	0			1	3.3	0.07 (0.07)		8	7.6	0.44 (0.12)		11	15.9	0.61 (0.22)		17	24.3	0.94 (0.22)	
Common Blacktip Whaler	0	0			1	3.3	0.07 (0.07)		1	1	0.06 (0.06)		1	1.4	0.06 (0.06)		0	0		
Dusky Whaler	0	0			0	0			0	0			0	0			0	0		
Great Hammerhead	0	0			1	3.3	0.07 (0.07)		3	2.9	0.17 (0.09)		0	0			2	2.9	0.11 (0.08)	
Grey Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Long Nose Whaler	0	0			0	0			1	1	0.06 (0.06)		4	5.8	0.22 (0.1)		0	0		
Pigeon Whaler	0	0			0	0			3	2.9	0.17 (0.09)		2	2.9	0.11 (0.08)		3	4.3	0.17 (0.12)	
Sandbar Whaler	0	0			0	0			0	0			1	1.4	0.06 (0.06)		0	0		
Sharptooth Shark	2	8.7	0.14 (0.1)		0	0			2	1.9	0.11 (0.08)		3	4.3	0.17 (0.09)		0	0		
Tiger Shark	0	0			4	13.3	0.29 (0.13)		55	52.4	3.06 (0.54)		23	33.3	1.28 (0.28)		26	37.1	1.44 (0.29)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	5	21.7		0.36 (0.17)	6	20		0.43 (0.17)	3	2.9		0.17 (0.09)	0	0			0	0		
Creek Whaler	0	0			1	3.3		0.07 (0.07)	0	0			0	0			0	0		
Graceful Whaler	0	0			0	0			0	0			0	0			0	0		
Milk Shark	0	0			0	0			2	1.9		0.11 (0.08)	2	2.9		0.11 (0.08)	0	0		
Nervous Shark	0	0			0	0			0	0			1	1.4		0.06 (0.06)	0	0		
Spot-Tail Whaler	1	4.3		0.07 (0.07)	4	13.3		0.29 (0.13)	11	10.5		0.61 (0.18)	10	14.5		0.56 (0.22)	6	8.6		0.33 (0.16)
White-Cheek Shark	0	0			0	0			0	0			0	0			0	0		
Unidentified Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			1	1		0.06 (0.06)	1	1.4		0.06 (0.06)	3	4.3		0.17 (0.09)
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	6	26.1	0.43 (0.2)		12	40	0.71 (0.3)	0.14 (0.14)	7	6.7	0.39 (0.12)		4	5.8	0.22 (0.13)		4	5.7	0.22 (0.1)	
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Unidentified Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			1	1		0.06 (0.06)	0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Giant Shovel-nosed Ray	0	0			0	0			0	0			0	0			0	0		
Fantail Ray	0	0			0	0			0	0			0	0			0	0		
Reticulate Whipray	1	4.3		0.07 (0.07)	0	0			0	0			0	0			0	0		
White-Spotted Guitar Fish	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Unidentified Ray	2	8.7	0.14 (0.1)		0	0			0	0			0	0			0	0		
Teleosts																				
Barracuda	0	0			0	0			0	0			0	0			1	1.4		0.06 (0.06)
Catfish	2	8.7		0.14 (0.1)	0	0			4	3.8	0.06 (0.06)	0.17 (0.12)	5	7.2	0.11 (0.11)	0.17 (0.09)	5	7.1		0.28 (0.16)
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Groper , Qld	2	8.7	0.14 (0.1)		0	0			2	1.9	0.11 (0.11)		1	1.4	0.06 (0.06)		2	2.9	0.11 (0.08)	
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Unidentified Fish	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	2	8.7	0.14 (0.1)		0	0			1	1	0.06 (0.06)		0	0			1	1.4	0.06 (0.06)	
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	23				30				105				69				70			

TOWNSVILLE SCP catch per gear unit

TAXA	HORSESHOE BAY																			
	DRUMLINE 34 (2001-2018)				DRUMLINE 35 (2001-2018)				DRUMLINE 36 (2001-2018)				DRUMLINE 37 (2001-2018)				DRUMLINE 38 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	
Bull Whaler	10	12.3	0.56 (0.17)		4	8.5	0.22 (0.1)		2	8	0.11 (0.08)		3	11.5	0.17 (0.09)		1	3.6	0.06 (0.06)	
Common Blacktip Whaler	0	0			0	0			0	0			0	0			1	3.6	0.06 (0.06)	
Dusky Whaler	0	0			0	0			0	0			0	0			0	0		
Great Hammerhead	4	4.9	0.22 (0.17)		2	4.3	0.11 (0.11)		0	0			0	0			3	10.7	0.17 (0.09)	
Grey Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Long Nose Whaler	0	0			0	0			1	4	0.06 (0.06)		0	0			0	0		
Pigeys Whaler	2	2.5	0.11 (0.08)		0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			1	2.1	0.06 (0.06)		0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			1	4	0.06 (0.06)		0	0			0	0		
Tiger Shark	42	51.9	2.33 (0.44)		6	12.8	0.33 (0.16)		4	16	0.22 (0.17)		10	38.5	0.56 (0.12)		6	21.4	0.33 (0.14)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	1	1.2		0.06 (0.06)	0	0			0	0			0	0			1	3.6		0.06 (0.06)
Creek Whaler	0	0			0	0			0	0			0	0			0	0		
Graceful Whaler	2	2.5		0.11 (0.11)	0	0			0	0			0	0			0	0		
Milk Shark	0	0			1	2.1		0.06 (0.06)	0	0			0	0			1	3.6		0.06 (0.06)
Nervous Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	7	8.6		0.39 (0.16)	2	4.3		0.11 (0.08)	0	0			1	3.8		0.06 (0.06)	4	14.3		0.22 (0.1)
White-Cheek Shark	0	0			0	0			0	0			0	0			0	0		
Unidentified Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	1	1.2		0.06 (0.06)	0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	3	3.7	0.17 (0.12)		6	12.8	0.33 (0.11)		4	16	0.22 (0.1)		1	3.8	0.06 (0.06)		5	17.9	0.28 (0.11)	
Zebra Shark	0	0			0	0			0	0			1	3.8		0.06 (0.06)	0	0		
Unidentified Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			1	2.1		0.06 (0.06)	0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			1	2.1	0.06 (0.06)		0	0			0	0			0	0		
Devilray *	1	1.2	0.06 (0.06)		0	0			0	0			0	0			0	0		
Giant Shovel-nosed Ray	0	0			0	0			0	0			0	0			0	0		
Fantail Ray	0	0			1	2.1	0.06 (0.06)		0	0			0	0			0	0		
Reticulate Whipray	0	0			1	2.1	0.06 (0.06)		3	12	0.11 (0.08)	0.06 (0.06)	0	0			1	3.6	0.06 (0.06)	
White-Spotted Guitar Fish	0	0			3	6.4	0.06 (0.06)	0.11 (0.08)	0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0			1	3.8	0.06 (0.06)		0	0		
Teleosts																				
Barracuda	0	0			0	0			0	0			0	0			0	0		
Catfish	8	9.9	0.11 (0.08)	0.33 (0.18)	14	29.8		0.78 (0.29)	7	28	0.11 (0.11)	0.28 (0.11)	7	26.9	0.06 (0.06)	0.33 (0.18)	3	10.7	0.06 (0.06)	0.11 (0.08)
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Groper , Qld	0	0			4	8.5	0.22 (0.13)		3	12	0.17 (0.09)		2	7.7	0.11 (0.08)		2	7.1	0.11 (0.08)	
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Unidentified Fish	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	81				47				25				26				28			

TOWNSVILLE SCP catch per gear unit

TAXA	HORSESHOE BAY																NELLY BAY			
	DRUMLINE 39 (2001-2018)				DRUMLINE 40 (2001-2018)				DRUMLINE 41 (2001-2018)				DRUMLINE 42 (2001-2018)				DRUMLINE 6 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Bull Whaler	2	7.4	0.11 (0.08)	3	9.7	0.17 (0.09)	4	9.5	0.22 (0.1)	3	9.4	0.17 (0.09)	2	4.8	0.11 (0.08)					
Common Blacktip Whaler	0	0		0	0		0	0		0	0		0	0						
Dusky Whaler	0	0		0	0		0	0		0	0		0	0						
Great Hammerhead	2	7.4	0.11 (0.08)	2	6.5	0.11 (0.08)	4	9.5	0.22 (0.13)	0	0		1	2.4	0.06 (0.06)					
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0						
Long Nose Whaler	0	0		0	0		0	0		1	3.1	0.06 (0.06)	3	7.1	0.17 (0.09)					
Pigeys Whaler	0	0		1	3.2	0.06 (0.06)	1	2.4	0.06 (0.06)	0	0		0	0						
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0						
Sharptooth Shark	0	0		1	3.2	0.06 (0.06)	2	4.8	0.11 (0.08)	0	0		0	0						
Tiger Shark	4	14.8	0.22 (0.1)	9	29	0.5 (0.19)	9	21.4	0.5 (0.17)	8	25	0.44 (0.17)	9	21.4	0.5 (0.17)					
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)				
Sharks & Rays																				
Blacktip Reef Whaler	2	7.4		0.11 (0.08)	0	0			3	7.1		0.17 (0.09)	7	21.9		0.39 (0.16)	1	2.4	0.06 (0.06)	
Creek Whaler	0	0			0	0			0	0			0	0			1	2.4	0.06 (0.06)	
Graceful Whaler	0	0			1	3.2		0.06 (0.06)	0	0			0	0			0	0		
Milk Shark	0	0			0	0			0	0			0	0			0	0		
Nervous Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	7	25.9		0.39 (0.16)	2	6.5		0.11 (0.08)	5	11.9		0.28 (0.14)	2	6.3		0.11 (0.08)	12	28.6	0.67 (0.14)	
White-Cheek Shark	0	0			0	0			1	2.4		0.06 (0.06)	0	0			1	2.4	0.06 (0.06)	
Unidentified Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			1	3.2		0.06 (0.06)	1	2.4		0.06 (0.06)	0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	4	14.8	0.22 (0.13)		4	12.9	0.17 (0.12)	0.06 (0.06)	8	19	0.44 (0.18)		5	15.6	0.28 (0.14)		6	14.3	0.33 (0.14)	
Zebra Shark	0	0			0	0			0	0			1	3.1	0.06 (0.06)		0	0		
Unidentified Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			1	2.4	0.06 (0.06)	
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			1	2.4	0.06 (0.06)	
Giant Shovel-nosed Ray	0	0			0	0			0	0			0	0			0	0		
Fantail Ray	0	0			0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar Fish	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0			0	0			1	2.4	0.06 (0.06)	
Teleosts																				
Barracuda	0	0			0	0			0	0			0	0			0	0		
Catfish	3	11.1		0.17 (0.09)	3	9.7		0.17 (0.17)	3	7.1		0.17 (0.12)	3	9.4		0.17 (0.12)	0	0		
Cod	2	7.4	0.06 (0.06)	0.06 (0.06)	0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Groper, Qld	1	3.7	0.06 (0.06)		3	9.7	0.17 (0.12)		1	2.4	0.06 (0.06)		2	6.3	0.11 (0.08)		1	2.4	0.06 (0.06)	
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Unidentified Fish	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Snubfin Dolphin	0	0			1	3.2	0.06 (0.06)		0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			2	4.8	0.11 (0.08)	
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	27				31				42				32				42			

TOWNSVILLE SCP catch per gear unit

TAXA	NELLY BAY																			
	DRUMLINE 7 (2001-2018)				DRUMLINE 8 (2001-2018)				DRUMLINE 9 (2001-2018)				DRUMLINE 10 (2001-2018)				DRUMLINE 11 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	
Bull Whaler	1	3.4	0.06 (0.06)		1	4	0.06 (0.06)		3	14.3	0.17 (0.09)		1	3.4	0.06 (0.06)		1	4.2	0.06 (0.06)	
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	0	0			0	0			0	0			0	0			0	0		
Great Hammerhead	1	3.4	0.06 (0.06)		1	4	0.06 (0.06)		1	4.8	0.06 (0.06)		0	0			3	12.5	0.17 (0.09)	
Grey Reef Whaler	0	0			1	4	0.06 (0.06)		0	0			0	0			0	0		
Long Nose Whaler	0	0			0	0			0	0			1	3.4	0.06 (0.06)		0	0		
Pigeye Whaler	0	0			0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			1	4.8	0.06 (0.06)		0	0			0	0		
Sharptooth Shark	0	0			0	0			0	0			3	10.3	0.17 (0.09)		0	0		
Tiger Shark	9	31	0.5 (0.2)		8	32	0.44 (0.15)		4	19	0.22 (0.13)		8	27.6	0.44 (0.15)		7	29.2	0.39 (0.14)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler				0.11 (0.08)	1	4		0.06 (0.06)	1	4.8		0.06 (0.06)	3	10.3		0.17 (0.09)	3	12.5	0.06 (0.06)	0.11 (0.08)
Creek Whaler	0	0			0	0			0	0			0	0			0	0		
Graceful Whaler	0	0			0	0			0	0			0	0			1	4.2		0.06 (0.06)
Milk Shark	0	0			0	0			0	0			0	0			0	0		
Nervous Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	5	17.2		0.28 (0.14)	4	16		0.22 (0.1)	4	19		0.22 (0.13)	5	17.2	0.06 (0.06)	0.22 (0.17)	6	25		0.33 (0.11)
White-Cheek Shark	1	3.4		0.06 (0.06)	1	4		0.06 (0.06)	0	0			0	0			0	0		
Unidentified Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	2	6.9		0.11 (0.08)	1	4		0.06 (0.06)	0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	5	17.2	0.28 (0.14)		5	20	0.28 (0.16)		5	23.8	0.28 (0.14)		4	13.8	0.22 (0.1)		3	12.5	0.17 (0.09)	
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Unidentified Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Giant Shovel-nosed Ray	0	0			0	0			0	0			0	0			0	0		
Fantail Ray	0	0			0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			1	4.8		0.06 (0.06)	1	3.4		0.06 (0.06)	0	0		
White-Spotted Guitar Fish	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Barracuda	0	0			0	0			0	0			0	0			0	0		
Catfish	1	3.4		0.06 (0.06)	1	4	0.06 (0.06)		1	4.8		0.06 (0.06)	1	3.4		0.06 (0.06)	0	0		
Cod	0	0			1	4		0.06 (0.06)	0	0			2	6.9	0.06 (0.06)	0.06 (0.06)	0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Groper , Qld	1	3.4	0.06 (0.06)		0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Unidentified Fish	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Spinner Dolphin	1	3.4		0.06 (0.06)	0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	29				25				21				29				24			

TOWNSVILLE SCP catch per gear unit

TAXA	NELLY BAY												FLORENCE BAY							
	DRUMLINE 12 (2001-2018)				DRUMLINE 13 (2001-2018)				DRUMLINE 14 (2001-2018)				DRUMLINE 21 (2001-2018)				DRUMLINE 22 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Bull Whaler	1	3.8	0.06 (0.06)	0	0		0	0		7	9.1	0.39 (0.14)	7	12.3	0.39 (0.14)					
Common Blacktip Whaler	0	0		1	3.3	0.06 (0.06)	0	0		0	0		1	1.8	0.06 (0.06)					
Dusky Whaler	0	0		0	0		0	0		0	0		0	0						
Great Hammerhead	0	0		0	0		0	0		0	0		3	5.3	0.17 (0.09)					
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0						
Long Nose Whaler	0	0		2	6.7	0.11 (0.08)	0	0		3	3.9	0.17 (0.09)	1	1.8	0.06 (0.06)					
Pigeon Whaler	2	7.7	0.11 (0.08)	1	3.3	0.06 (0.06)	0	0		0	0		0	0						
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0						
Sharptooth Shark	0	0		1	3.3	0.06 (0.06)	1	4.3	0.06 (0.06)	1	1.3	0.06 (0.06)	0	0						
Tiger Shark	4	15.4	0.22 (0.1)	7	23.3	0.39 (0.16)	4	17.4	0.22 (0.1)	39	50.6	2.17 (0.43)	28	49.1	1.56 (0.3)					
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	4	15.4		0.22 (0.15)	9	30		0.5 (0.22)	8	34.8		0.44 (0.22)	1	1.3		0.06 (0.06)	2	3.5		0.11 (0.08)
Creek Whaler	0	0			0	0			0	0			0	0			0	0		
Graceful Whaler	0	0			0	0			0	0			0	0			1	1.8		0.06 (0.06)
Milk Shark	0	0			0	0			0	0			0	0			0	0		
Nervous Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	7	26.9		0.39 (0.16)	2	6.7		0.11 (0.08)	2	8.7		0.11 (0.08)	10	13		0.56 (0.17)	5	8.8	0.06 (0.06)	0.22 (0.1)
White-Cheek Shark	0	0			0	0			1	4.3		0.06 (0.06)	0	0			0	0		
Unidentified Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	1	3.8		0.06 (0.06)	0	0			0	0			4	5.2		0.22 (0.13)	0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	4	15.4	0.22 (0.17)		4	13.3	0.22 (0.1)		3	13	0.17 (0.12)		7	9.1	0.33 (0.11)	0.06 (0.06)	3	5.3	0.17 (0.09)	
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Unidentified Shark	1	3.8		0.06 (0.06)	0	0			0	0			0	0			1	1.8		0.06 (0.06)
Manta Ray	0	0			0	0			1	4.3	0.06 (0.06)		1	1.3	0.06 (0.06)		0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Giant Shovel-nosed Ray	0	0			0	0			0	0			0	0			0	0		
Fantail Ray	0	0			0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar Fish	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Barracuda	0	0			0	0			0	0			0	0			0	0		
Catfish	1	3.8		0.06 (0.06)	1	3.3		0.06 (0.06)	1	4.3		0.06 (0.06)	1	1.3		0.06 (0.06)	5	8.8	0.11 (0.11)	0.17 (0.09)
Cod	0	0			2	6.7	0.11 (0.08)		0	0			1	1.3		0.06 (0.06)	0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Groper, Qld	1	3.8	0.06 (0.06)		0	0			0	0			2	2.6	0.11 (0.08)		0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Unidentified Fish	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			1	4.3	0.06 (0.06)		0	0			0	0		
Loggerhead Turtle	0	0			0	0			1	4.3	0.06 (0.06)		0	0			0	0		
TOTAL CATCH	26				30				23				77				57			

TOWNSVILLE SCP catch per gear unit

TAXA	FLORENCE BAY												ALMA BAY							
	DRUMLINE 23 (2001-2018)				DRUMLINE 24 (2001-2018)				DRUMLINE 25 (2001-2018)				DRUMLINE 15 (2001-2018)				DRUMLINE 16 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Bull Whaler	17	26.2	0.94 (0.27)	13	14.4	0.72 (0.21)	12	15.8	0.67 (0.24)	6	8.2	0.33 (0.14)	5	10.2	0.28 (0.11)					
Common Blacktip Whaler	3	4.6	0.17 (0.09)	1	1.1	0.06 (0.06)	1	1.3	0.06 (0.06)	0	0		0	0						
Dusky Whaler	1	1.5	0.06 (0.06)	1	1.1	0.06 (0.06)	0	0		0	0		0	0						
Great Hammerhead	1	1.5	0.06 (0.06)	1	1.1	0.06 (0.06)	0	0		2	2.7	0.11 (0.08)	1	2	0.06 (0.06)					
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0						
Long Nose Whaler	1	1.5	0.06 (0.06)	0	0		1	1.3	0.06 (0.06)	5	6.8	0.28 (0.11)	1	2	0.06 (0.06)					
Pigeys Whaler	1	1.5	0.06 (0.06)	2	2.2	0.11 (0.08)	0	0		0	0		0	0						
Sandbar Whaler	2	3.1	0.11 (0.08)	0	0		0	0		0	0		0	0						
Sharptooth Shark	0	0		0	0		1	1.3	0.06 (0.06)	0	0		3	6.1	0.17 (0.09)					
Tiger Shark	28	43.1	1.56 (0.27)	42	46.7	2.33 (0.4)	35	46.1	1.94 (0.3)	34	46.6	1.89 (0.42)	19	38.8	1.06 (0.24)					
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	2	3.1		0.11 (0.08)	1	1.1		0.06 (0.06)	4	5.3		0.22 (0.1)	4	5.5		0.22 (0.17)	3	6.1		0.17 (0.09)
Creek Whaler	0	0			0	0			0	0			0	0			0	0		
Graceful Whaler	0	0			0	0			0	0			1	1.4		0.06 (0.06)	0	0		
Milk Shark	0	0			0	0			0	0			0	0			0	0		
Nervous Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	5	7.7		0.28 (0.18)	20	22.2		1.11 (0.3)	10	13.2		0.56 (0.17)	13	17.8		0.72 (0.16)	6	12.2		0.33 (0.14)
White-Cheek Shark	0	0			0	0			0	0			0	0			0	0		
Unidentified Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			3	3.9		0.17 (0.09)	0	0			2	4.1		0.11 (0.08)
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	2	3.1	0.11 (0.08)		5	5.6	0.28 (0.14)		3	3.9	0.11 (0.08)	0.06 (0.06)	4	5.5	0.17 (0.09)	0.06 (0.06)	8	16.3	0.44 (0.17)	
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Unidentified Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	1	1.5	0.06 (0.06)		1	1.1	0.06 (0.06)		0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Giant Shovel-nosed Ray	0	0			0	0			0	0			0	0			0	0		
Fantail Ray	0	0			0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar Fish	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Barracuda	0	0			0	0			0	0			0	0			0	0		
Catfish	1	1.5	0.06 (0.06)		3	3.3		0.17 (0.09)	6	7.9	0.22 (0.1)	0.11 (0.08)	2	2.7		0.11 (0.11)	0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Groper , Qld	0	0			0	0			0	0			0	0			1	2	0.06 (0.06)	
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Unidentified Fish	0	0			0	0			0	0			1	1.4		0.06 (0.06)	0	0		
Marine Mammals																				
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			1	1.4	0.06 (0.06)		0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	65				90				76				73				49			

TOWNSVILLE SCP catch per gear unit

TAXA	ALMA BAY																RADICAL BAY			
	DRUMLINE 17 (2001-2018)				DRUMLINE 18 (2001-2018)				DRUMLINE 19 (2001-2018)				DRUMLINE 20 (2001-2018)				DRUMLINE 26 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	
Bull Whaler	4	11.4	0.22 (0.1)	6	17.6	0.33 (0.14)		8	25	0.44 (0.12)		7	15.6	0.39 (0.16)		6	14	0.33 (0.11)		
Common Blacktip Whaler	3	8.6	0.17 (0.12)	0	0			0	0			0	0			1	2.3	0.06 (0.06)		
Dusky Whaler	0	0		0	0			0	0			0	0			0	0			
Great Hammerhead	2	5.7	0.11 (0.08)	0	0			1	3.1	0.06 (0.06)		3	6.7	0.17 (0.09)		1	2.3	0.06 (0.06)		
Grey Reef Whaler	0	0		0	0			0	0			0	0			0	0			
Long Nose Whaler	0	0		0	0			0	0			0	0			0	0			
Pigeys Whaler	0	0		1	2.9	0.06 (0.06)		0	0			0	0			0	0			
Sandbar Whaler	0	0		0	0			0	0			0	0			1	2.3	0.06 (0.06)		
Sharptooth Shark	0	0		0	0			0	0			0	0			5	11.6	0.28 (0.11)		
Tiger Shark	14	40	0.78 (0.21)	14	41.2	0.78 (0.21)		13	40.6	0.72 (0.16)		12	26.7	0.67 (0.2)		13	30.2	0.72 (0.24)		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	3	8.6		0.17 (0.12)	4	11.8		0.22 (0.13)	2	6.3		0.11 (0.11)	10	22.2		0.56 (0.18)	8	18.6		0.44 (0.15)
Creek Whaler	0	0			0	0			0	0			0	0			0	0		
Graceful Whaler	0	0			0	0			0	0			0	0			0	0		
Milk Shark	0	0			0	0			0	0			0	0			0	0		
Nervous Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	3	8.6		0.17 (0.09)	5	14.7		0.28 (0.14)	2	6.3		0.11 (0.08)	7	15.6		0.39 (0.18)	3	7	0.06 (0.06)	0.11 (0.08)
White-Cheek Shark	0	0			0	0			0	0			0	0			0	0		
Unidentified Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	2	5.7		0.11 (0.08)	0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	3	8.6	0.17 (0.09)		2	5.9	0.11 (0.08)		6	18.8	0.33 (0.14)		5	11.1	0.28 (0.14)		4	9.3	0.22 (0.1)	
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Unidentified Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Giant Shovel-nosed Ray	0	0			0	0			0	0			0	0			0	0		
Fantail Ray	0	0			0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar Fish	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Barracuda	0	0			0	0			0	0			0	0			0	0		
Catfish	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Groper, Qld	0	0			0	0			0	0			0	0			1	2.3		0.06 (0.06)
Queen Fish	0	0			1	2.9		0.06 (0.06)	0	0			0	0			0	0		
Unidentified Fish	1	2.9		0.06 (0.06)	0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			1	2.9	0.06 (0.06)		0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			1	2.2	0.06 (0.06)		0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	35				34				32				45				43			

TOWNSVILLE SCP catch per gear unit

TAXA	RADICAL BAY															
	DRUMLINE 27 (2001-2018)				DRUMLINE 28 (2001-2018)				DRUMLINE 29 (2001-2018)				DRUMLINE 30 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	
Bull Whaler	7	13.7	0.39 (0.14)		4	8.7	0.22 (0.1)		5	11.1	0.28 (0.11)		8	12.7	0.44 (0.18)	
Common Blacktip Whaler	1	2	0.06 (0.06)		0	0			0	0			0	0		
Dusky Whaler	0	0			0	0			0	0			0	0		
Great Hammerhead	0	0			1	2.2	0.06 (0.06)		1	2.2	0.06 (0.06)		1	1.6	0.06 (0.06)	
Grey Reef Whaler	0	0			0	0			0	0			0	0		
Long Nose Whaler	1	2	0.06 (0.06)		1	2.2	0.06 (0.06)		0	0			1	1.6	0.06 (0.06)	
Pigeys Whaler	1	2	0.06 (0.06)		1	2.2	0.06 (0.06)		4	8.9	0.22 (0.1)		1	1.6	0.06 (0.06)	
Sandbar Whaler	0	0			0	0			0	0			0	0		
Sharptooth Shark	1	2	0.06 (0.06)		0	0			3	6.7	0.17 (0.09)		2	3.2	0.11 (0.08)	
Tiger Shark	19	37.3	1.06 (0.25)		26	56.5	1.44 (0.33)		22	48.9	1.22 (0.19)		37	58.7	2.06 (0.34)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																
Blacktip Reef Whaler	7	13.7		0.39 (0.12)	3	6.5		0.17 (0.17)	1	2.2		0.06 (0.06)	3	4.8		0.17 (0.09)
Creek Whaler	1	2		0.06 (0.06)	0	0			0	0			0	0		
Graceful Whaler	1	2		0.06 (0.06)	0	0			0	0			0	0		
Milk Shark	1	2		0.06 (0.06)	0	0			1	2.2		0.06 (0.06)	1	1.6		0.06 (0.06)
Nervous Shark	0	0			0	0			0	0			0	0		
Spot-Tail Whaler	2	3.9		0.11 (0.08)	4	8.7		0.22 (0.1)	4	8.9		0.22 (0.13)	4	6.3		0.22 (0.1)
White-Cheek Shark	0	0			0	0			0	0			0	0		
Unidentified Whaler	0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			2	3.2		0.11 (0.08)
Hammerhead Shark *	0	0			0	0			0	0			0	0		
Tawny Shark	7	13.7	0.33 (0.18)	0.06 (0.06)	3	6.5	0.17 (0.09)		3	6.7	0.17 (0.12)		3	4.8	0.17 (0.09)	
Zebra Shark	0	0			0	0			0	0			0	0		
Unidentified Shark	0	0			0	0			0	0			0	0		
Manta Ray	1	2	0.06 (0.06)		0	0			1	2.2	0.06 (0.06)		0	0		
Shark Ray	0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0		
Giant Shovel-nosed Ray	0	0			0	0			0	0			0	0		
Fantail Ray	0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			0	0			0	0		
White-Spotted Guitar Fish	0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0			0	0		
Teleosts																
Barracuda	0	0			0	0			0	0			0	0		
Catfish	1	2		0.06 (0.06)	1	2.2		0.06 (0.06)	0	0			0	0		
Cod	0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0		
Groper, Qld	0	0			1	2.2	0.06 (0.06)		0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0		
Unidentified Fish	0	0			0	0			0	0			0	0		
Marine Mammals																
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0		
Marine Turtles																
Green Turtle	0	0			1	2.2	0.06 (0.06)		0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0		
TOTAL CATCH	51				46				45				63			

MACKAY SCP catch by gear unit

TAXA	DRUMLINE 1 (2001-2018)						BUCASIA BEACH						DRUMLINE 5 (2001-2018)					
	DRUMLINE 1 (2001-2018)			DRUMLINE 2 (2001-2018)			DRUMLINE 3 (2001-2018)			DRUMLINE 4 (2001-2018)			DRUMLINE 5 (2001-2018)					
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)			
Australian Blacktip	0	0		0	0		0	0		0	0		0	0				
Bull Whaler	4	20	0.22 (0.17)	2	22.2	0.11 (0.11)	1	5.9	0.06 (0.06)	2	20	0.11 (0.08)	1	16.7	0.06 (0.06)			
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0				
Long Nose Whaler	0	0		0	0		1	5.9	0.06 (0.06)	0	0		0	0				
Pigeys Whaler	0	0		0	0		0	0		0	0		0	0				
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0				
Sharptooth Shark	0	0		0	0		0	0		1	10	0.06 (0.06)	0	0				
Tiger Shark	13	65	0.72 (0.33)	5	55.6	0.28 (0.11)	10	58.8	0.56 (0.17)	6	60	0.33 (0.14)	4	66.7	0.22 (0.13)			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)		
Sharks & Rays																		
Blacktip Reef Whaler	1	5		0.06 (0.06)	1	11.1		0.06 (0.06)	2	11.8		0.11 (0.08)	0	0		0	0	
Fossil Shark	0	0			0	0			0	0			0	0		0	0	
Spot-Tail Whaler	0	0			0	0			0	0			0	0		0	0	
Scalloped Hammerhead	0	0			0	0			0	0			0	0		0	0	
Hammerhead Shark *	0	0			0	0			0	0			0	0		0	0	
Thresher Shark	0	0			0	0			0	0			0	0		0	0	
Tawny Shark	1	5	0.06 (0.06)		0	0			0	0			1	10	0.06 (0.06)	0	0	
Zebra Shark	0	0			0	0			1	5.9	0.06 (0.06)		0	0		0	0	
Tasselled Wobbegong	0	0			0	0			0	0			0	0		0	0	
Manta Ray	0	0			0	0			0	0			0	0		0	0	
Eagle Ray *	0	0			0	0			0	0			0	0		0	0	
Cownose Ray	0	0			0	0			0	0			0	0		0	0	
Shovelnosed Ray *	0	0			0	0			1	5.9	0.06 (0.06)		0	0		0	0	
Bull Ray	0	0			0	0			0	0			0	0		0	0	
Green Sawfish	0	0			0	0			0	0			0	0		0	0	
Sawfish (Ray)	0	0			0	0			0	0			0	0		0	0	
Ray	1	5	0.06 (0.06)		0	0			0	0			0	0		1	16.7	0.06 (0.06)
Teleosts																		
Groper, Qld	0	0			1	11.1		0.06 (0.06)	1	5.9	0.06 (0.06)		0	0		0	0	
Marine Mammals																		
Australian Hb Dolphin	0	0			0	0			0	0			0	0		0	0	
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0		0	0	
Bottlenose Dolphin	0	0			0	0			0	0			0	0		0	0	
Dugong	0	0			0	0			0	0			0	0		0	0	
Marine Turtles																		
Flatback Turtle	0	0			0	0			0	0			0	0		0	0	
Green Turtle	0	0			0	0			0	0			0	0		0	0	
Loggerhead Turtle	0	0			0	0			0	0			0	0		0	0	
Other																		
Crocodile	0	0			0	0			0	0			0	0		0	0	
TOTAL CATCH	20				9				17				10			6		

MACKAY SCP catch by gear unit

TAXA	BUCASIA BEACH																			
	DRUMLINE 6 (2001-2018)			DRUMLINE 7 (2007, 2018)				DRUMLINE 8 (2007, 2018)				DRUMLINE 9 (2007, 2018)				DRUMLINE 10 (2007, 2018)				
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)(n=18)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	
Australian Blacktip	0	0		0	0			0	0			0	0			0	0			
Bull Whaler	0	0		0	0			0	0			0	0			0	0			
Grey Reef Whaler	0	0		0	0			0	0			0	0			0	0			
Long Nose Whaler	0	0		0	0			0	0			0	0			0	0			
Pigeys Whaler	0	0		0	0			0	0			0	0			0	0			
Sandbar Whaler	0	0		0	0			0	0			0	0			0	0			
Sharptooth Shark	0	0		0	0			0	0			0	0			0	0			
Tiger Shark	2	66.7	0.11 (0.08)	0	0			0	0			0	0			1	100	0.5 (0.5)		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)(n=18)	Mean No. DEAD (SE) (n=18)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			1	100		0.5 (0.5)		0	0		0	0		
Fossil Shark	0	0			0	0			0	0				0	0		0	0		
Spot-Tail Whaler	0	0			0	0			0	0				0	0		0	0		
Scalloped Hammerhead	0	0			0	0			0	0				0	0		0	0		
Hammerhead Shark *	0	0			0	0			0	0				0	0		0	0		
Thresher Shark	0	0			0	0			0	0				0	0		0	0		
Tawny Shark	0	0			0	0			0	0			1	100	0.5 (0.5)		0	0		
Zebra Shark	0	0			0	0			0	0				0	0		0	0		
Tasselled Wobbegong	1	33.3	0.06 (0.06)		0	0			0	0				0	0		0	0		
Manta Ray	0	0			0	0			0	0				0	0		0	0		
Eagle Ray *	0	0			0	0			0	0				0	0		0	0		
Cownose Ray	0	0			0	0			0	0				0	0		0	0		
Shovelnosed Ray *	0	0			0	0			0	0				0	0		0	0		
Bull Ray	0	0			0	0			0	0				0	0		0	0		
Green Sawfish	0	0			0	0			0	0				0	0		0	0		
Sawfish (Ray)	0	0			0	0			0	0				0	0		0	0		
Ray	0	0			0	0			0	0				0	0		0	0		
Teleosts																				
Groper, Qld	0	0			0	0			0	0				0	0		0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0				0	0		0	0		
Australian Snubfin Dolphin	0	0			0	0			0	0				0	0		0	0		
Bottlenose Dolphin	0	0			0	0			0	0				0	0		0	0		
Dugong	0	0			0	0			0	0				0	0		0	0		
Marine Turtles																				
Flatback Turtle	0	0			0	0			0	0				0	0		0	0		
Green Turtle	0	0			0	0			0	0				0	0		0	0		
Loggerhead Turtle	0	0			0	0			0	0				0	0		0	0		
Other																				
Crocodile	0	0			0	0			0	0				0	0		0	0		
TOTAL CATCH	3				0				1					1			1			

MACKAY SCP catch by gear unit

TAXA	BUCASIA BEACH																			
	DRUMLINE 11(2007, 2018)			DRUMLINE 12 (2007, 2018)			NET 1 (2001-2017)			NET 2 (2001-2017)			EIMEO BEACH DRUMLINE 13 (2001-2018)							
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Australian Blacktip	0	0		0	0		0	0		0	0		0	0		0	0			
Bull Whaler	0	0		0	0		34	26.2	2 (0.45)	43	18.6	2.69 (0.51)	3	50	0.17 (0.09)					
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0						
Long Nose Whaler	0	0		0	0		2	1.5	0.12 (0.08)	0	0		0	0						
Pigeys Whaler	0	0		0	0		2	1.5	0.12 (0.08)	3	1.3	0.19 (0.14)	0	0						
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0						
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0						
Tiger Shark	0	0		0	0		18	13.8	1.06 (0.25)	16	6.9	1 (0.27)	1	16.7	0.06 (0.06)					
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			7			0.41 (0.15)	13			0.81 (0.31)	0	0		
Fossil Shark	0	0			0	0			0				1			0.06 (0.06)	0	0		
Spot-Tail Whaler	0	0			0	0			0				0				0	0		
Scalloped Hammerhead	0	0			0	0			8			0.47 (0.23)	12			0.75 (0.17)	0	0		
Hammerhead Shark *	0	0			0	0			1		0.06 (0.06)		1			0.06 (0.06)	0	0		
Thresher Shark	0	0			0	0			0				0				0	0		
Tawny Shark	0	0			0	0			14		0.53 (0.19)	0.29 (0.14)	10		0.38 (0.2)	0.25 (0.14)	2	33.3	0.11 (0.08)	
Zebra Shark	0	0			0	0			5		0.29 (0.11)		6		0.25 (0.14)	0.13 (0.09)	0	0		
Tasselled Wobbegong	0	0			0	0			0				0				0	0		
Manta Ray	0	0			0	0			1		0.06 (0.06)		3		0.19 (0.14)		0	0		
Eagle Ray *	0	0			0	0			0				1			0.06 (0.06)	0	0		
Cownose Ray	0	0			0	0			31		1.12 (0.38)	0.71 (0.48)	104		4.31 (1.63)	2.19 (1.38)	0	0		
Shovelnosed Ray *	0	0			0	0			1		0.06 (0.06)		4		0.13 (0.09)	0.13 (0.09)	0	0		
Bull Ray	0	0			0	0			0				0				0	0		
Green Sawfish	0	0			0	0			0				1		0.06 (0.06)		0	0		
Sawfish (Ray)	0	0			0	0			0				2		0.13 (0.09)		0	0		
Ray	0	0			0	0			1		0.06 (0.06)		0				0	0		
Teleosts																				
Groper, Qld	0	0			0	0			1		0.06 (0.06)		0				0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			1			0.06 (0.06)	1			0.06 (0.06)	0	0		
Australian Snubfin Dolphin	0	0			0	0			0				0				0	0		
Bottlenose Dolphin	0	0			0	0			0				2			0.13 (0.13)	0	0		
Dugong	0	0			0	0			1			0.06 (0.06)	0				0	0		
Marine Turtles																				
Flatback Turtle	0	0			0	0			0				1		0.06 (0.06)		0	0		
Green Turtle	0	0			0	0			1		0.06 (0.06)		3		0.06 (0.06)	0.13 (0.09)	0	0		
Loggerhead Turtle	0	0			0	0			1		0.06 (0.06)		2		0.13 (0.13)		0	0		
Other																				
Crocodile	0	0			0	0			0				2			0.13 (0.09)	0	0		
TOTAL CATCH	0				0				130				231				6			

MACKAY SCP catch by gear unit

TAXA	DRUMLINE 14 (2001-2018)						EIMEO BEACH				DRUMLINE 17 (2001-2018)				DRUMLINE 18 (2001-2018)						
	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	
Target species																					
Australian Blacktip	0	0			0	0			0	0			0	0			0	0			
Bull Whaler	14	66.7	0.78 (0.3)		5	35.7	0.28 (0.14)		2	22.2	0.11 (0.08)		4	80	0.22 (0.1)		1	14.3	0.06 (0.06)		
Grey Reef Whaler	0	0			0	0			0	0			0	0			0	0			
Long Nose Whaler	0	0			0	0			0	0			0	0			0	0			
Pigeys Whaler	1	4.8	0.06 (0.06)		0	0			0	0			0	0			0	0			
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0			
Sharptooth Shark	0	0			1	7.1	0.06 (0.06)		1	11.1	0.06 (0.06)		0	0			0	0			
Tiger Shark	4	19	0.22 (0.1)		3	21.4	0.17 (0.12)		4	44.4	0.22 (0.1)		1	20	0.06 (0.06)		6	85.7	0.33 (0.16)		
Non-target species																					
Sharks & Rays																					
Blacktip Reef Whaler	2	9.5		0.11 (0.08)	0	0			1	11.1		0.11 (0.08)	0	0			0	0			
Fossil Shark	0	0			0	0			0	0			0	0			0	0			
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0			
Scalloped Hammerhead	0	0			2	14.3		0.11 (0.08)	0	0			0	0			0	0			0.06 (0.06)
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0			
Thresher Shark	0	0			0	0			0	0			0	0			0	0			
Tawny Shark	0	0			0	0			0	0	0.06 (0.06)		0	0			0	0			
Zebra Shark	0	0			0	0			0	0			0	0			0	0			
Tasselled Wobbegong	0	0			0	0			0	0			0	0			0	0			
Manta Ray	0	0			0	0			0	0			0	0			0	0			
Eagle Ray *	0	0			0	0			0	0			0	0			0	0			
Cownose Ray	0	0			0	0			0	0			0	0			0	0			
Shovelnosed Ray *	0	0			2	14.3	0.11 (0.08)		1	11.1	0.06 (0.06)		0	0			0	0			
Bull Ray	0	0			0	0			0	0			0	0			0	0			
Green Sawfish	0	0			0	0			0	0			0	0			0	0			
Sawfish (Ray)	0	0			0	0			0	0			0	0			0	0			
Ray	0	0			1	7.1		0.06 (0.06)	0	0			0	0			0	0			
Teleosts																					
Groper, Qld	0	0			0	0			0	0			0	0			0	0			
Marine Mammals																					
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0			
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0			
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0			
Dugong	0	0			0	0			0	0			0	0			0	0			
Marine Turtles																					
Flatback Turtle	0	0			0	0			0	0			0	0			0	0			
Green Turtle	0	0			0	0			0	0			0	0			0	0			
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0			
Other																					
Crocodile	0	0			0	0			0	0			0	0			0	0			
TOTAL CATCH	21				14				9				5				7				

MACKAY SCP catch by gear unit

TAXA	EIMEO BEACH				BLACKS BEACH															
	NET 3 (2001-2015)			DRUMLINE 19 (2001-2018)				DRUMLINE 20 (2001-2018)				DRUMLINE 21 (2001-2018)				DRUMLINE 22 (2004-2018)				
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	
Australian Blacktip	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	22	25	1.47 (0.42)		9	29	0.5 (0.2)		20	39.2	1.11 (0.28)		9	25	0.5 (0.23)		3	30	0.2 (0.11)	
Grey Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Long Nose Whaler	0	0			0	0			0	0			0	0			0	0		
Pigeys Whaler	0	0			0	0			1	2	0.06 (0.06)		1	2.8	0.06 (0.06)		0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	24	27.3	1.6 (0.42)		21	67.7	1.17 (0.39)		25	49	1.39 (0.33)		19	52.8	1.06 (0.34)		6	60	0.4 (0.16)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	2	2.3		0.13 (0.09)	0	0			3	5.9		0.17 (0.12)	4	11.1		0.22 (0.1)	0	0		
Fossil Shark	1	1.1		0.07 (0.07)	0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			1	2		0.06 (0.06)	0	0			0	0		
Scalloped Hammerhead	7	8		0.47 (0.17)	0	0			0	0			1	2.8		0.06 (0.06)	0	0		
Hammerhead Shark *	1	1.1		0.07 (0.07)	0	0			0	0			0	0			0	0		
Thresher Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			1	3.2	0.06 (0.06)		0	0			1	2.8	0.06 (0.06)		0	0		
Zebra Shark	1	1.1	0.07 (0.07)		0	0			0	0			0	0			0	0		
Tasselled Wobbegong	0	0			0	0			0	0			0	0			0	0		
Manta Ray	4	4.5	0.27 (0.27)		0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	20	22.7	0.87 (0.38)	0.47 (0.34)	0	0			0	0			0	0			0	0		
Shovelnosed Ray *	4	4.5	0.13 (0.09)	0.13 (0.09)	0	0			1	2	0.06 (0.06)		0	0			1	10	0.07 (0.07)	
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Green Sawfish	0	0			0	0			0	0			0	0			0	0		
Sawfish (Ray)	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Groper, Qld	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	1	1.1		0.07 (0.07)	0	0			0	0			0	0			0	0		
Marine Turtles																				
Flatback Turtle	0	0			0	0			0	0			0	0			0	0		
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	1	1.1	0.07 (0.07)		0	0			0	0			1	2.8	0.06 (0.06)		0	0		
Other																				
Crocodile	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	88				31				51				36				10			

MACKAY SCP catch by gear unit

TAXA	BLACKS BEACH								LAMBERTS BEACH											
	DRUMLINE 23 (2004-2018)			DRUMLINE 24 (2004-2018)			DRUMLINE 25 (2001-2018)			DRUMLINE 26 (2001-2018)			DRUMLINE 27 (2001-2018)							
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)			
Australian Blacktip	1	8.3	0.07 (0.07)	0	0			0	0			0	0		0	0				
Bull Whaler	4	33.3	0.27 (0.12)	2	33.3	0.13 (0.09)		5	6.8	0.28 (0.16)		12	10	0.67 (0.26)	12	21.4	0.67 (0.23)			
Grey Reef Whaler	0	0		0	0			0	0			0	0		1	1.8	0.06 (0.06)			
Long Nose Whaler	0	0		0	0			0	0			0	0		1	1.8	0.06 (0.06)			
Pigeys Whaler	0	0		0	0			0	0			2	1.7	0.11 (0.08)	0	0				
Sandbar Whaler	0	0		0	0			0	0			1	0.8	0.06 (0.06)	2	3.6	0.11 (0.11)			
Sharptooth Shark	0	0		0	0			0	0			0	0		2	3.6	0.11 (0.08)			
Tiger Shark	6	50	0.4 (0.13)	4	66.7	0.27 (0.15)		59	79.7	3.28 (0.57)		96	80	5.33 (0.68)	36	64.3	2 (0.41)			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	1	8.3		0.07 (0.07)	0	0			0	0			1	0.8		0.06 (0.06)	0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			2	2.7		0.11 (0.08)	1	0.8		0.06 (0.06)	0	0		
Hammerhead Shark *	0	0			0	0			0	0			1	0.8		0.06 (0.06)	0	0		
Thresher Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			8	10.8	0.39 (0.18)	0.06 (0.06)	5	4.2	0.28 (0.14)		2	3.6	0.11 (0.08)	
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Tasselled Wobbegong	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Shovelnosed Ray *	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Green Sawfish	0	0			0	0			0	0			0	0			0	0		
Sawfish (Ray)	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Groper, Qld	0	0			0	0			0	0			1	0.8	0.06 (0.06)		0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Flatback Turtle	0	0			0	0			0	0			0	0			0	0		
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
Other																				
Crocodile	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	12				6				74				120				56			

MACKAY SCP catch by gear unit

TAXA	DRUMLINE 28 (2001-2018)						LAMBERTS BEACH						DRUMLINE 32 (2017,2018)						DRUMLINE 33 (2017,2018)			
	DRUMLINE 28 (2001-2018)		DRUMLINE 29 (2001-2018)		DRUMLINE 30 (2001-2018)		DRUMLINE 32 (2017,2018)		DRUMLINE 33 (2017,2018)		DRUMLINE 32 (2017,2018)		DRUMLINE 33 (2017,2018)		DRUMLINE 33 (2017,2018)		DRUMLINE 33 (2017,2018)					
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	
Australian Blacktip	0	0		0	0		0	0		0	0		0	0		0	0		0	0		
Bull Whaler	3	11.1	0.17 (0.09)	0	0		3	20	0.17 (0.12)	0	0		0	0		0	0		0	0		
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0		
Long Nose Whaler	0	0		1	9.1	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0		
Pigeys Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0		
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0		
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		0	0		0	0		
Tiger Shark	22	81.5	1.22 (0.26)	6	54.5	0.33 (0.11)	10	66.7	0.56 (0.2)	2	100	1 (1)	1	100	0.5 (0.5)							
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)		
Sharks & Rays																						
Blacktip Reef Whaler	0	0			1	9.1		0.06 (0.06)	1	6.7		0.06 (0.06)	0	0			0	0				
Fossil Shark	0	0			0	0			0	0			0	0			0	0				
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0				
Scalloped Hammerhead	0	0			1	9.1		0.06 (0.06)	0	0			0	0			0	0				
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0				
Thresher Shark	0	0			1	9.1	0.06 (0.06)		0	0			0	0			0	0				
Tawny Shark	2	7.4	0.11 (0.08)		1	9.1	0.06 (0.06)		0	0			0	0			0	0				
Zebra Shark	0	0			0	0			0	0			0	0			0	0				
Tasselled Wobbegong	0	0			0	0			0	0			0	0			0	0				
Manta Ray	0	0			0	0			0	0			0	0			0	0				
Eagle Ray *	0	0			0	0			0	0			0	0			0	0				
Cownose Ray	0	0			0	0			0	0			0	0			0	0				
Shovelnosed Ray *	0	0			0	0			0	0			0	0			0	0				
Bull Ray	0	0			0	0			0	0			0	0			0	0				
Green Sawfish	0	0			0	0			0	0			0	0			0	0				
Sawfish (Ray)	0	0			0	0			0	0			0	0			0	0				
Ray	0	0			0	0			0	0			0	0			0	0				
Teleosts																						
Groper, Qld	0	0			0	0			0	0			0	0			0	0				
Marine Mammals																						
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0				
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0				
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0				
Dugong	0	0			0	0			0	0			0	0			0	0				
Marine Turtles																						
Flatback Turtle	0	0			0	0			0	0			0	0			0	0				
Green Turtle	0	0			0	0			0	0			0	0			0	0				
Loggerhead Turtle	0	0			0	0			1	6.7	0.06 (0.06)		0	0			0	0				
Other																						
Crocodile	0	0			0	0			0	0			0	0			0	0				
TOTAL CATCH	27				11				15				2				1					

MACKAY SCP catch by gear unit

TAXA	LAMBERTS BEACH									STH LAMBERTS								
	DRUMLINE 34 (2017, 2018)			DRUMLINE 35 (2017, 2018)			DRUMLINE 36 (2017, 2018)			DRUMLINE 31 (2017, 2018)			DRUMLINE 32 (2017-2018)					
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)			
Australian Blacktip	0	0		0	0		0	0		0	0		0	0				
Bull Whaler	1	50	0.5 (0.5)	0	0		0	0		1	100	0.5 (0.5)	0	0				
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0				
Long Nose Whaler	0	0		0	0		0	0		0	0		0	0				
Pigeys Whaler	0	0		0	0		0	0		0	0		0	0				
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0				
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0				
Tiger Shark	1	50	0.5 (0.5)	2	100	1 (1)	1	100	0.5 (0.5)	0	0		0	0				
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)		
Sharks & Rays																		
Blacktip Reef Whaler	0	0			0	0			0	0			0	0				
Fossil Shark	0	0			0	0			0	0			0	0				
Spot-Tail Whaler	0	0			0	0			0	0			0	0				
Scalloped Hammerhead	0	0			0	0			0	0			0	0				
Hammerhead Shark *	0	0			0	0			0	0			0	0				
Thresher Shark	0	0			0	0			0	0			0	0				
Tawny Shark	0	0			0	0			0	0			0	0				
Zebra Shark	0	0			0	0			0	0			0	0				
Tasselled Wobbegong	0	0			0	0			0	0			0	0				
Manta Ray	0	0			0	0			0	0			0	0				
Eagle Ray *	0	0			0	0			0	0			0	0				
Cownose Ray	0	0			0	0			0	0			0	0				
Shovelnosed Ray *	0	0			0	0			0	0			0	0				
Bull Ray	0	0			0	0			0	0			0	0				
Green Sawfish	0	0			0	0			0	0			0	0				
Sawfish (Ray)	0	0			0	0			0	0			0	0				
Ray	0	0			0	0			0	0			0	0				
Teleosts																		
Groper, Qld	0	0			0	0			0	0			0	0				
Marine Mammals																		
Australian Hb Dolphin	0	0			0	0			0	0			0	0				
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0				
Bottlenose Dolphin	0	0			0	0			0	0			0	0				
Dugong	0	0			0	0			0	0			0	0				
Marine Turtles																		
Flatback Turtle	0	0			0	0			0	0			0	0				
Green Turtle	0	0			0	0			0	0			0	0				
Loggerhead Turtle	0	0			0	0			0	0			0	0				
Other																		
Crocodile	0	0			0	0			0	0			0	0				
TOTAL CATCH	2				2				1				1			0		

MACKAY SCP catch by gear unit

TAXA	STH LAMBERTS BEACH																HARBOUR BEACH			
	DRUMLINE 33 (2017,2018)				DRUMLINE 34 (2017,2018)				DRUMLINE 35 (2017,2018)				DRUMLINE 36 (2017,2018)				DRUMLINE 37 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	
Australian Blacktip	0	0		0	0			0	0			0	0			0	0			
Bull Whaler	0	0		0	0			0	0			1	100	0.5 (0.5)		7	19.4	0.39 (0.14)		
Grey Reef Whaler	0	0		0	0			0	0			0	0			0	0			
Long Nose Whaler	0	0		0	0			0	0			0	0			0	0			
Pigeys Whaler	0	0		0	0			0	0			0	0			0	0			
Sandbar Whaler	0	0		0	0			0	0			0	0			0	0			
Sharptooth Shark	0	0		0	0			0	0			0	0			0	0			
Tiger Shark	1	50	0.5 (0.5)	3	100	1.5 (0.5)		1	50	0.5 (0.5)		0	0			26	72.2	1.44 (0.43)		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			1	50	0.5 (0.5)		0	0			1	2.8		0.06 (0.06)
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Thresher Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	1	50		0.5 (0.5)	0	0			0	0			0	0			2	5.6	0.06 (0.06)	0.06 (0.06)
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Tasselled Wobbegong	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Shovelnosed Ray *	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Green Sawfish	0	0			0	0			0	0			0	0			0	0		
Sawfish (Ray)	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Groper, Qld	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Flatback Turtle	0	0			0	0			0	0			0	0			0	0		
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
Other																				
Crocodile	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	2				3				2				1				36			

MACKAY SCP catch by gear unit

TAXA	DRUMLINE 38 (2001-2018)						HARBOUR BEACH DRUMLINE 40 (2001-2018)						DRUMLINE 41 (2001-2018)				DRUMLINE 42 (2001-2018)				
	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	
Target species																					
Australian Blacktip	0	0			0	0			0	0			0	0			0	0			
Bull Whaler	5	10	0.28 (0.11)		2	4.8	0.11 (0.08)		3	10	0.17 (0.09)		2	7.4	0.11 (0.08)		2	5	0.11 (0.08)		
Grey Reef Whaler	0	0			0	0			0	0			0	0			0	0			
Long Nose Whaler	0	0			0	0			0	0			0	0			0	0			
Pigeys Whaler	0	0			0	0			1	3.3	0.06 (0.06)		0	0			0	0			
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0			
Sharptooth Shark	1	2	0.06 (0.06)		0	0			0	0			0	0			0	0			
Tiger Shark	36	72	2 (0.37)		35	83.3	1.94 (0.36)		22	73.3	1.22 (0.25)		23	85.2	1.28 (0.32)		32	80	1.78 (0.42)		
Non-target species																					
Sharks & Rays																					
Blacktip Reef Whaler	1	2		0.06 (0.06)	1	2.4		0.06 (0.06)	1	3.3		0.06 (0.06)	0	0			0	0			
Fossil Shark	0	0			0	0			0	0			0	0			0	0			
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0			
Scalloped Hammerhead	2	4		0.11 (0.11)	0	0			0	0			0	0			0	0			
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0			
Thresher Shark	0	0			0	0			0	0			0	0			0	0			
Tawny Shark	4	8	0.17 (0.09)	0.06 (0.06)	3	7.1	0.17 (0.12)		3	10	0.17 (0.09)		2	7.4	0.06 (0.06)	0.06 (0.06)	5	12.5	0.22 (0.1)	0.06 (0.06)	
Zebra Shark	0	0			0	0			0	0			0	0			0	0			
Tasselled Wobbegong	0	0			0	0			0	0			0	0			0	0			
Manta Ray	0	0			0	0			0	0			0	0			0	0			
Eagle Ray *	0	0			0	0			0	0			0	0			0	0			
Cownose Ray	0	0			0	0			0	0			0	0			0	0			
Shovelnosed Ray *	1	2		0.06 (0.06)	1	2.4		0.06 (0.06)	0	0			0	0			0	0			
Bull Ray	0	0			0	0			0	0			0	0			0	0			
Green Sawfish	0	0			0	0			0	0			0	0			0	0			
Sawfish (Ray)	0	0			0	0			0	0			0	0			0	0			
Ray	0	0			0	0			0	0			0	0			0	0			
Teleosts																					
Groper, Qld	0	0			0	0			0	0			0	0			1	2.5	0.06 (0.06)		
Marine Mammals																					
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0			
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			0	0			
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0			
Dugong	0	0			0	0			0	0			0	0			0	0			
Marine Turtles																					
Flatback Turtle	0	0			0	0			0	0			0	0			0	0			
Green Turtle	0	0			0	0			0	0			0	0			0	0			
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0			
Other																					
Crocodile	0	0			0	0			0	0			0	0			0	0			
TOTAL CATCH	50				42				30				27				40				

MACKAY SCP catch by gear unit

TAXA	DRUMLINE 43 (2001-2018)						HARBOUR BEACH DRUMLINE 44 (2001-2018)						DRUMLINE 45 (2001-2018)						NET 1 (2001-2018)			NET 2 (2001-2018)		
	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)				
Target species																								
Australian Blacktip	0	0			0	0			0	0			0	0			0	0						
Bull Whaler	3	11.1	0.17 (0.09)		0	0			0	0			13	9.6	0.72 (0.27)		19	15.7	1.06 (0.37)					
Grey Reef Whaler	0	0			0	0			0	0			1	0.7	0.06 (0.06)		1	0.8	0.06 (0.06)					
Long Nose Whaler	0	0			0	0			0	0			2	1.5	0.11 (0.08)		0	0						
Pigeys Whaler	0	0			0	0			0	0			2	1.5	0.11 (0.08)		0	0						
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0						
Sharptooth Shark	0	0			0	0			0	0			0	0			0	0						
Tiger Shark	21	77.8	1.17 (0.33)		16	88.9	0.89 (0.29)		10	83.3	0.56 (0.15)		62	45.6	3.44 (0.61)		41	33.9	2.28 (0.54)					
Non-target species																								
Sharks & Rays																								
Blacktip Reef Whaler	0	0			0	0			0	0			9	6.6		0.5 (0.19)	5	4.1		0.28 (0.16)				
Fossil Shark	0	0			0	0			0	0			0	0			0	0						
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0						
Scalloped Hammerhead	0	0			1	5.6		0.06 (0.06)	0	0			6	4.4	0.06 (0.06)	0.28 (0.14)	12	9.9		0.67 (0.28)				
Hammerhead Shark *	0	0			0	0			1	8.3		0.06 (0.06)	1	0.7		0.06 (0.06)	0	0						
Thresher Shark	0	0			0	0			0	0			0	0			0	0						
Tawny Shark	3	11.1	0.17 (0.09)		1	5.6		0.06 (0.06)	0	0			10	7.4	0.44 (0.2)	0.11 (0.08)	7	5.8	0.17 (0.12)	0.22 (0.17)				
Zebra Shark	0	0			0	0			0	0			1	0.7	0.06 (0.06)		0	0						
Tasselled Wobbegong	0	0			0	0			0	0			0	0			0	0						
Manta Ray	0	0			0	0			0	0			6	4.4	0.28 (0.18)	0.06 (0.06)	6	5	0.11 (0.08)	0.22 (0.1)				
Eagle Ray *	0	0			0	0			0	0			1	0.7	0.06 (0.06)		1	0.8	0.06 (0.06)					
Cownose Ray	0	0			0	0			0	0			17	12.5	0.67 (0.23)	0.28 (0.16)	4	3.3	0.06 (0.06)	0.17 (0.12)				
Shovelnosed Ray *	0	0			0	0			0	0			0	0			3	2.5	0.17 (0.09)					
Bull Ray	0	0			0	0			0	0			0	0			2	1.7	0.06 (0.06)	0.06 (0.06)				
Green Sawfish	0	0			0	0			0	0			0	0			0	0						
Sawfish (Ray)	0	0			0	0			0	0			1	0.7	0.06 (0.06)		0	0						
Ray	0	0			0	0			0	0			0	0			0	0						
Teleosts																								
Groper, Qld	0	0			0	0			1	8.3	0.06 (0.06)		0	0			0	0						
Marine Mammals																								
Australian Hb Dolphin	0	0			0	0			0	0			1	0.7		0.06 (0.06)	0	0						
Australian Snubfin Dolphin	0	0			0	0			0	0			0	0			1	0.8		0.06 (0.06)				
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0						
Dugong	0	0			0	0			0	0			2	1.5		0.11 (0.08)	2	1.7		0.11 (0.08)				
Marine Turtles																								
Flatback Turtle	0	0			0	0			0	0			0	0			2	1.7		0.11 (0.08)				
Green Turtle	0	0			0	0			0	0			0	0			8	6.6	0.06 (0.06)	0.39 (0.33)				
Loggerhead Turtle	0	0			0	0			0	0			0	0			5	4.1	0.11 (0.08)	0.17 (0.12)				
Other																								
Crocodile	0	0			0	0			0	0			1	0.7		0.06 (0.06)	2	1.7		0.11 (0.08)				
TOTAL CATCH	27				18				12				136				121							

CAPRICORN SCP catch by gear unit

TAXA	DRUMLINE 1 (2001-2018)						FARNBOROUGH BEACH						DRUMLINE 5 (2001-2018)					
	DRUMLINE 1 (2001-2018)			DRUMLINE 2 (2001-2018)			DRUMLINE 3 (2001-2018)			DRUMLINE 4 (2001-2018)			DRUMLINE 5 (2001-2018)					
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)			
Australian Blacktip	0	0		0	0		0	0		0	0		0	0				
Bull Whaler	13	22.8	0.72 (0.23)	13	31.7	0.72 (0.19)	7	20.6	0.39 (0.14)	11	33.3	0.61 (0.16)	9	47.4	0.5 (0.17)			
Common Blacktip Whaler	0	0		0	0		0	0		0	0		0	0				
Dusky Whaler	0	0		0	0		1	2.9	0.06 (0.06)	0	0		0	0				
Great Hammerhead	1	1.8	0.06 (0.06)	0	0		0	0		0	0		0	0				
Long Nose Whaler	3	5.3	0.17 (0.12)	1	2.4	0.06 (0.06)	4	11.8	0.22 (0.17)	2	6.1	0.11 (0.11)	1	5.3	0.06 (0.06)			
Pigeys Whaler	1	1.8	0.06 (0.06)	0	0		2	5.9	0.11 (0.08)	0	0		1	5.3	0.06 (0.06)			
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0				
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0				
Silky Whaler	0	0		0	0		0	0		1	3	0.06 (0.06)	1	5.3	0.06 (0.06)			
Tiger Shark	17	29.8	0.94 (0.29)	9	22	0.5 (0.17)	9	26.5	0.5 (0.17)	8	24.2	0.44 (0.17)	3	15.8	0.17 (0.09)			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)		
Sharks & Rays																		
Aust Sharpnose Shark	0	0			0	0			0	0			0	0				
Blacktip Reef Whaler	7	12.3		0.39 (0.16)	5	12.2		0.28 (0.18)	4	11.8		0.22 (0.17)	4	12.1		0.22 (0.1)		
Creek Whaler	0	0			1	2.4		0.06 (0.06)	0	0			0	0				
Graceful Whaler	0	0			2	4.9		0.11 (0.11)	0	0			0	0				
Hardnose Whaler	0	0			0	0			0	0			0	0				
Milk Shark	1	1.8		0.06 (0.06)	2	4.9		0.11 (0.08)	1	2.9		0.06 (0.06)	2	6.1		0.11 (0.11)		
Slit Eye Shark	0	0			0	0			0	0			0	0				
Spot-Tail Whaler	5	8.8		0.28 (0.19)	3	7.3		0.17 (0.09)	2	5.9		0.11 (0.08)	1	3		0.06 (0.06)		
White-Cheek Shark	1	1.8		0.06 (0.06)	0	0			0	0			0	0				
Scalloped Hammerhead	0	0			0	0			0	0			0	0				
Winged Hammerhead	0	0			0	0			0	0			0	0				
Hammerhead Shark *	1	1.8		0.06 (0.06)	1	2.4		0.06 (0.06)	0	0			2	6.1		0.11 (0.11)		
Tawny Shark	0	0			0	0			0	0			1	3		0.06 (0.06)		
Grey Carpet Shark	1	1.8	0.06 (0.06)		0	0			0	0			0	0				
Unknown Shark	1	1.8		0.06 (0.06)	0	0			0	0			0	0				
Giant Shovelnosed R	0	0			0	0			0	0			0	0				
Shovelnosed Ray *	0	0			1	2.4		0.06 (0.06)	0	0			0	0				
Eagle Ray *	0	0			0	0			0	0			0	0				
Reticulate Whipray	0	0			0	0			1	2.9		0.06 (0.06)	0	0				
Ray	3	5.3	0.06 (0.06)	0.11 (0.08)	0	0			2	5.9	0.06 (0.06)	0.06 (0.06)	0	0				
Teleosts																		
Black Kingfish Cobia	0	0			0	0			0	0			0	0				
Catfish	0	0			0	0			0	0			0	0				
Cod	0	0			0	0			0	0			0	0				
Groper , Qld	0	0			0	0			0	0			0	0				
Jewfish	0	0			0	0			0	0			0	0				
Toadfish	2	3.5		0.11 (0.08)	0	0			1	2.9	0.06 (0.06)		1	3	0.06 (0.06)			
Marine Mammals																		
Australian Hb Dolphin	0	0			1	2.4	0.06 (0.06)		0	0			0	0				
Dolphin	0	0			0	0			0	0			0	0				
Marine Turtles																		
Green Turtle	0	0			0	0			0	0			0	0				
Loggerhead Turtle	0	0			2	4.9	0.11 (0.11)		0	0			0	0				
Turtle	0	0			0	0			0	0			0	0				
TOTAL CATCH	57				41				34				33				19	

CAPRICORN SCP catch by gear unit

TAXA	YEPPOON BEACH																				
	DRUMLINE 6 (2001-2018)				DRUMLINE 7 (2001-2018)				DRUMLINE 8 (2001-2018)				DRUMLINE 9 (2001-2018)				DRUMLINE 10 (2001-2018)				
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)
Australian Blacktip	0	0		0	0		0	0		0	0		0	0		0	0		0	0	
Bull Whaler	11	57.9	0.61 (0.24)	3	21.4	0.17 (0.12)	2	12.5	0.11 (0.08)	4	44.4	0.22 (0.1)	2	20	0.11 (0.08)						
Common Blacktip Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0	
Dusky Whaler	0	0		0	0		0	0		0	0		0	0		1	10	0.06 (0.06)			
Great Hammerhead	0	0		1	7.1	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0	
Long Nose Whaler	1	5.3	0.06 (0.06)	0	0		1	6.3	0.06 (0.06)	1	11.1	0.06 (0.06)	2	20	0.11 (0.11)						
Pigeys Whaler	1	5.3	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0		0	0	
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0	
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		0	0		0	0	
Silky Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0	
Tiger Shark	1	5.3	0.06 (0.06)	4	28.6	0.22 (0.1)	8	50	0.44 (0.17)	0	0		2	20	0.11 (0.08)						
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	
Sharks & Rays																					
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			0	0			
Blacktip Reef Whaler	1	5.3		0.06 (0.06)	1	7.1		0.06 (0.06)	3	18.8		0.17 (0.09)	0	0			0	0			
Creek Whaler	0	0			0	0			0	0			0	0			0	0			
Graceful Whaler	0	0			0	0			0	0			0	0			0	0			
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0			
Milk Shark	0	0			1	7.1		0.06 (0.06)	0	0			0	0			0	0			
Slit Eye Shark	0	0			0	0			0	0			0	0			0	0			
Spot-Tail Whaler	0	0			1	7.1		0.06 (0.06)	0	0			1	11.1		0.06 (0.06)	0	0			
White-Cheek Shark	0	0			1	7.1		0.06 (0.06)	0	0			0	0			0	0			
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0			
Winged Hammerhead	0	0			0	0			0	0			0	0			0	0			
Hammerhead Shark *	1	5.3		0.06 (0.06)	0	0			0	0			1	11.1		0.06 (0.06)	0	0			
Tawny Shark	1	5.3	0.06 (0.06)		1	7.1	0.06 (0.06)		1	6.3	0.06 (0.06)		0	0			0	0			
Grey Carpet Shark	0	0			0	0			0	0			0	0			0	0			
Unknown Shark	0	0			0	0			0	0			0	0			0	0			
Giant Shovelnosed R	0	0			0	0			0	0			0	0			0	0			
Shovelnosed Ray *	0	0			0	0			0	0			0	0			0	0			
Eagle Ray *	1	5.3		0.06 (0.06)	0	0			0	0			1	11.1	0.06 (0.06)		0	0			
Reticulate Whipray	0	0			0	0			0	0			0	0			0	0			
Ray	0	0			0	0			1	6.3	0.06 (0.06)		1	11.1		0.06 (0.06)	2	20		0.11 (0.11)	
Teleosts																					
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0			
Catfish	0	0			0	0			0	0			0	0			0	0			
Cod	0	0			0	0			0	0			0	0			0	0			
Groper , Qld	0	0			0	0			0	0			0	0			0	0			
Jewfish	1	5.3		0.06 (0.06)	1	7.1		0.06 (0.06)	0	0			0	0			0	0			
Toadfish	0	0			0	0			0	0			0	0			0	0			
Marine Mammals																					
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0			
Dolphin	0	0			0	0			0	0			0	0			1	10	0.06 (0.06)		
Marine Turtles																					
Green Turtle	0	0			0	0			0	0			0	0			0	0			
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0			
Turtle	0	0			0	0			0	0			0	0			0	0			
TOTAL CATCH	19				14				16				9				10				

CAPRICORN SCP catch by gear unit

TAXA	COOEE BAY																			
	DRUMLINE 11 (2001-2018)				DRUMLINE 12 (2001-2018)				DRUMLINE 13 (2001-2018)				DRUMLINE 14 (2001-2018)				DRUMLINE 15 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	
Australian Blacktip	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	4	33.3	0.22 (0.13)		4	26.7	0.22 (0.13)		2	20	0.11 (0.08)		11	45.8	0.61 (0.18)		6	50	0.33 (0.16)	
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	0	0			0	0			0	0			0	0			0	0		
Great Hammerhead	1	8.3	0.06 (0.06)		0	0			0	0			0	0			0	0		
Long Nose Whaler	1	8.3	0.06 (0.06)		1	6.7	0.06 (0.06)		2	20	0.11 (0.08)		2	8.3	0.11 (0.08)		0	0		
Pigeys Whaler	0	0			0	0			1	10	0.06 (0.06)		2	8.3	0.11 (0.08)		0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			0	0			0	0			0	0		
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	4	33.3	0.22 (0.13)		4	26.7	0.22 (0.1)		0	0			2	8.3	0.11 (0.08)		3	25	0.17 (0.12)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			0	0		
Blacktip Reef Whaler	0	0			2	13.3		0.11 (0.11)	3	30		0.17 (0.09)	4	16.7		0.22 (0.13)	1	8.3		0.06 (0.06)
Creek Whaler	0	0			0	0			0	0			0	0			0	0		
Graceful Whaler	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Milk Shark	0	0			2	13.3		0.11 (0.11)	1	10		0.06 (0.06)	1	4.2		0.06 (0.06)	1	8.3		0.06 (0.06)
Slit Eye Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			1	6.7		0.06 (0.06)	0	0			0	0			0	0		
White-Cheek Shark	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			1	8.3		0.06 (0.06)
Winged Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	1	8.3		0.06 (0.06)	1	6.7		0.06 (0.06)	0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Grey Carpet Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Giant Shovelnosed R	0	0			0	0			0	0			0	0			0	0		
Shovelnosed Ray *	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Catfish	0	0			0	0			1	10		0.06 (0.06)	0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Groper , Qld	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Toadfish	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			1	4.2	0.06 (0.06)		0	0		
Loggerhead Turtle	0	0			0	0			0	0			1	4.2	0.06 (0.06)		0	0		
Turtle	1	8.3		0.06 (0.06)	0	0			0	0			0	0			0	0		
TOTAL CATCH	12				15				10				24				12			

CAPRICORN SCP catch by gear unit

TAXA	COOEE BAY						LAMMERMOOR BEACH													
	DRUMLINE 6 (2001-2018)			DRUMLINE 17 (2001-2018)			DRUMLINE 18 (2001-2018)			DRUMLINE 19 (2001-2018)			DRUMLINE 20 (2001-2018)							
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Australian Blacktip	0	0		0	0		0	0		0	0		0	0		0	0			
Bull Whaler	4	36.4	0.22 (0.1)	1	7.7	0.06 (0.06)	8	42.1	0.44 (0.17)	10	50	0.56 (0.2)	7	28	0.39 (0.16)					
Common Blacktip Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Dusky Whaler	1	9.1	0.06 (0.06)	1	7.7	0.06 (0.06)	0	0		0	0		0	0		0	0			
Great Hammerhead	1	9.1	0.06 (0.06)	0	0		0	0		1	5	0.06 (0.06)	0	0		0	0			
Long Nose Whaler	0	0		2	15.4	0.11 (0.08)	0	0		0	0		0	0		2	8	0.11 (0.11)		
Pigeys Whaler	0	0		0	0		1	5.3	0.06 (0.06)	0	0		0	0		0	0			
Sandbar Whaler	1	9.1	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0			
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Silky Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Tiger Shark	2	18.2	0.11 (0.08)	4	30.8	0.22 (0.1)	5	26.3	0.28 (0.14)	4	20	0.22 (0.13)	6	24	0.33 (0.14)					
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			0	0		
Blacktip Reef Whaler	1	9.1		0.06 (0.06)	2	15.4		0.11 (0.08)	3	15.8		0.17 (0.09)	2	10		0.11 (0.08)	1	4		0.06 (0.06)
Creek Whaler	0	0			0	0			0	0			0	0			0	0		
Graceful Whaler	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Milk Shark	0	0			1	7.7		0.06 (0.06)	0	0			0	0			2	8		0.11 (0.08)
Slit Eye Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			0	0			1	4		0.06 (0.06)
White-Cheek Shark	0	0			0	0			0	0			0	0			1	4		0.06 (0.06)
Scalloped Hammerhead	0	0			0	0			0	0			1	5		0.06 (0.06)	0	0		
Winged Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			2	10.5		0.11 (0.08)	1	5		0.06 (0.06)	0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Grey Carpet Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Giant Shovel nosed R	0	0			0	0			0	0			0	0			0	0		
Shovel nosed Ray *	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			0	0			0	0			1	4		0.06 (0.06)
Ray	0	0			1	7.7		0.06 (0.06)	0	0			1	5		0.06 (0.06)	1	4		0.06 (0.06)
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Catfish	0	0			1	7.7		0.06 (0.06)	0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Groper , Qld	0	0			0	0			0	0			0	0			1	4		0.06 (0.06)
Jewfish	0	0			0	0			0	0			0	0			0	0		
Toadfish	1	9.1		0.06 (0.06)	0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			1	4		0.06 (0.06)
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			1	4		0.06 (0.06)
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	11				13				19				20				25			

CAPRICORN SCP catch by gear unit

TAXA	DRUMLINE 21 (2001-2018)						LAMMERMOOR BEACH						DRUMLINE 25 (2001-2018)					
	DRUMLINE 21 (2001-2018)			DRUMLINE 22 (2001-2018)			DRUMLINE 23 (2001-2018)			DRUMLINE 24 (2001-2018)			DRUMLINE 25 (2001-2018)					
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)			
Australian Blacktip	0	0		0	0		0	0		0	0		0	0				
Bull Whaler	3	37.5	0.17 (0.12)	1	9.1	0.06 (0.06)	4	22.2	0.22 (0.13)	3	21.4	0.17 (0.12)	3	30	0.17 (0.12)			
Common Blacktip Whaler	0	0		0	0		0	0		0	0		0	0				
Dusky Whaler	0	0		0	0		0	0		0	0		0	0				
Great Hammerhead	0	0		0	0		1	5.6	0.06 (0.06)	1	7.1	0.06 (0.06)	0	0				
Long Nose Whaler	0	0		1	9.1	0.06 (0.06)	3	16.7	0.17 (0.09)	1	7.1	0.06 (0.06)	0	0				
Pigeye Whaler	0	0		0	0		0	0		0	0		0	0				
Sandbar Whaler	0	0		0	0		0	0		1	7.1	0.06 (0.06)	0	0				
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0				
Silky Whaler	0	0		0	0		0	0		0	0		0	0				
Tiger Shark	0	0		3	27.3	0.17 (0.12)	4	22.2	0.22 (0.13)	4	28.6	0.22 (0.13)	5	50	0.28 (0.18)			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)		
Sharks & Rays																		
Aust Sharpnose Shark	0	0			1	9.1		0.06 (0.06)	0	0			0	0				
Blacktip Reef Whaler	0	0			1	9.1		0.06 (0.06)	2	11.1		0.11 (0.08)	3	21.4		0.17 (0.09)		
Creek Whaler	0	0			0	0			0	0			0	0				
Graceful Whaler	0	0			0	0			0	0			0	0				
Hardnose Whaler	1	12.5		0.06 (0.06)	2	18.2		0.11 (0.11)	0	0			0	0				
Milk Shark	0	0			0	0			0	0			0	0				
Slit Eye Shark	0	0			0	0			0	0			0	0				
Spot-Tail Whaler	0	0			0	0			0	0			0	0				
White-Cheek Shark	0	0			1	9.1		0.06 (0.06)	1	5.6		0.06 (0.06)	0	0				
Scalloped Hammerhead	0	0			0	0			0	0			0	0				
Winged Hammerhead	0	0			0	0			0	0			0	0				
Hammerhead Shark *	2	25		0.11 (0.11)	0	0			0	0			0	0				
Tawny Shark	0	0			0	0			0	0			0	0				
Grey Carpet Shark	0	0			0	0			0	0			0	0				
Unknown Shark	0	0			0	0			0	0			0	0				
Giant Shovel nosed R	0	0			0	0			1	5.6		0.06 (0.06)	0	0				
Shovel nosed Ray *	1	12.5		0.06 (0.06)	0	0			0	0			0	0				
Eagle Ray *	0	0			0	0			0	0			0	0				
Reticulate Whipray	1	12.5	0.06 (0.06)		0	0			1	5.6	0.06 (0.06)		1	7.1	0.06 (0.06)			
Ray	0	0			0	0			0	0			0	0				
Teleosts																		
Black Kingfish Cobia	0	0			0	0			0	0			0	0				
Catfish	0	0			0	0			0	0			0	0				
Cod	0	0			0	0			0	0			0	0				
Groper , Qld	0	0			0	0			0	0			0	0				
Jewfish	0	0			1	9.1		0.06 (0.06)	0	0			0	0				
Toadfish	0	0			0	0			0	0			0	0				
Marine Mammals																		
Australian Hb Dolphin	0	0			0	0			1	5.6	0.06 (0.06)		0	0				
Dolphin	0	0			0	0			0	0			0	0				
Marine Turtles																		
Green Turtle	0	0			0	0			0	0			0	0				
Loggerhead Turtle	0	0			0	0			0	0			0	0				
Turtle	0	0			0	0			0	0			0	0				
TOTAL CATCH	8				11				18				14					

CAPRICORN SCP catch by gear unit

TAXA	KEMP BEACH								MULLAMBIN BEACH											
	DRUMLINE 31 (2001-2018)				DRUMLINE 32 (2001-2018)				DRUMLINE 33 (2001-2018)				DRUMLINE 34 (2001-2018)				DRUMLINE 35 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)
Australian Blacktip	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	4	33.3	0.22 (0.1)		7	58.3	0.39 (0.14)		12	36.4	0.67 (0.2)		17	43.6	0.94 (0.27)		18	50	1 (0.33)	
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	0	0			0	0			0	0			0	0			0	0		
Great Hammerhead	0	0			0	0			0	0			0	0			1	2.8	0.06 (0.06)	
Long Nose Whaler	0	0			0	0			1	3	0.06 (0.06)		0	0			2	5.6	0.11 (0.11)	
Pigeys Whaler	0	0			0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			0	0			0	0			0	0		
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	4	33.3	0.22 (0.13)		5	41.7	0.28 (0.14)		10	30.3	0.56 (0.18)		12	30.8	0.67 (0.2)		6	16.7	0.33 (0.14)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			1	2.8		0.06 (0.06)
Blacktip Reef Whaler	1	8.3		0.06 (0.06)	0	0			7	21.2	0.39 (0.22)		4	10.3	0.22 (0.1)		2	5.6		0.11 (0.08)
Creek Whaler	0	0			0	0			0	0			0	0			0	0		
Graceful Whaler	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Milk Shark	0	0			0	0			0	0			2	5.1	0.11 (0.08)		0	0		
Slit Eye Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			1	3	0.06 (0.06)		2	5.1	0.11 (0.08)		2	5.6		0.11 (0.11)
White-Cheek Shark	0	0			0	0			0	0			1	2.6	0.06 (0.06)		0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Winged Hammerhead	0	0			0	0			1	3	0.06 (0.06)		0	0			0	0		
Hammerhead Shark *	0	0			0	0			1	3	0.06 (0.06)		0	0			1	2.8		0.06 (0.06)
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Grey Carpet Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			2	5.6	0.06 (0.06)	0.06 (0.06)
Giant Shovelnosed R	0	0			0	0			0	0			0	0			0	0		
Shovelnosed Ray *	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
Reticulate Whipray	1	8.3		0.06 (0.06)	0	0			0	0			0	0			0	0		
Ray	1	8.3		0.06 (0.06)	0	0			0	0			0	0			1	2.8		0.06 (0.06)
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Catfish	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Groper , Qld	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Toadfish	1	8.3	0.06 (0.06)		0	0			0	0			1	2.6	0.06 (0.06)		0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	12				12				33				39				36			

CAPRICORN SCP catch by gear unit

TAXA	LAMMERMOOR BEACH						KEMP BEACH													
	DRUMLINE 26 (2001-2018)			DRUMLINE 27 (2001-2018)			DRUMLINE 28 (2001-2018)			DRUMLINE 29 (2001-2018)			DRUMLINE 30 (2001-2018)							
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Australian Blacktip	0	0		0	0		0	0		0	0		0	0		1	6.3	0.06 (0.06)		
Bull Whaler	6	42.9	0.33 (0.16)	5	29.4	0.28 (0.11)	2	25	0.11 (0.08)	6	31.6	0.33 (0.11)	7	43.8	0.39 (0.14)					
Common Blacktip Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Dusky Whaler	1	7.1	0.06 (0.06)	1	5.9	0.06 (0.06)	0	0		0	0		0	0		0	0			
Great Hammerhead	0	0		1	5.9	0.06 (0.06)	0	0		1	5.3	0.06 (0.06)	0	0		0	0			
Long Nose Whaler	1	7.1	0.06 (0.06)	1	5.9	0.06 (0.06)	0	0		3	15.8	0.17 (0.12)	0	0		0	0			
Pigeye Whaler	0	0		0	0		0	0		0	0		1	6.3	0.06 (0.06)					
Sandbar Whaler	0	0		0	0		0	0		0	0		1	6.3	0.06 (0.06)					
Sharptooth Shark	0	0		0	0		0	0		0	0		1	6.3	0.06 (0.06)					
Silky Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Tiger Shark	2	14.3	0.11 (0.08)	6	35.3	0.33 (0.11)	5	62.5	0.28 (0.14)	5	26.3	0.28 (0.11)	2	12.5	0.11 (0.11)					
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			0	0		
Blacktip Reef Whaler	1	7.1		0.06 (0.06)	2	11.8		0.11 (0.08)	1	12.5		0.06 (0.06)	1	5.3		0.06 (0.06)	2	12.5		0.11 (0.08)
Creek Whaler	0	0			0	0			0	0			0	0			0	0		
Graceful Whaler	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Milk Shark	0	0			0	0			0	0			0	0			0	0		
Slit Eye Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	1	7.1		0.06 (0.06)	0	0			0	0			0	0			1	6.3		0.06 (0.06)
White-Cheek Shark	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Winged Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Grey Carpet Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Giant Shovelnosed R	0	0			0	0			0	0			0	0			0	0		
Shovelnosed Ray *	1	7.1		0.06 (0.06)	0	0			0	0			1	5.3		0.06 (0.06)	0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			0	0			1	5.3		0.06 (0.06)	0	0		
Ray	1	7.1	0.06 (0.06)		0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Catfish	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Groper , Qld	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Toadfish	0	0			0	0			0	0			1	5.3	0.06 (0.06)		0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			1	5.9	0.06 (0.06)		0	0			0	0			0	0		
Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	14				17				8				19				16			

CAPRICORN SCP catch by gear unit

TAXA	MULLAMBIN BEACH								TANBY PT BEACH									
	DRUMLINE 36 (2001-2018)			DRUMLINE 37 (2001-2018)			DRUMLINE 38 (2001-2018)			DRUMLINE 39 (2001-2018)			DRUMLINE 40 (2001-2018)					
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)			
Australian Blacktip	0	0		0	0		0	0		0	0		0	0				
Bull Whaler	6	24	0.33 (0.14)	10	34.5	0.56 (0.22)	14	51.9	0.78 (0.22)	22	41.5	1.22 (0.25)	17	30.9	0.94 (0.25)			
Common Blacktip Whaler	0	0		0	0		0	0		0	0		0	0				
Dusky Whaler	0	0		0	0		1	3.7	0.06 (0.06)	0	0		0	0				
Great Hammerhead	0	0		1	3.4	0.06 (0.06)	0	0		0	0		1	1.8	0.06 (0.06)			
Long Nose Whaler	1	4	0.06 (0.06)	1	3.4	0.06 (0.06)	0	0		0	0		2	3.6	0.11 (0.08)			
Pigeye Whaler	0	0		0	0		0	0		1	1.9	0.06 (0.06)	0	0				
Sandbar Whaler	0	0		1	3.4	0.06 (0.06)	0	0		0	0		1	1.8	0.06 (0.06)			
Sharptooth Shark	0	0		1	3.4	0.06 (0.06)	0	0		0	0		0	0				
Silky Whaler	0	0		0	0		0	0		0	0		0	0				
Tiger Shark	10	40	0.56 (0.18)	10	34.5	0.56 (0.2)	7	25.9	0.39 (0.14)	16	30.2	0.89 (0.23)	16	29.1	0.89 (0.23)			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)		
Sharks & Rays																		
Aust Sharpnose Shark	0	0			0	0			0	0			0	0		0.06 (0.06)		
Blacktip Reef Whaler	4	16		0.22 (0.13)	2	6.9		0.11 (0.08)	0	0			7	13.2	0.39 (0.16)	6	10.9	0.33 (0.14)
Creek Whaler	0	0			0	0			0	0			0	0		0	0	
Graceful Whaler	0	0			1	3.4		0.06 (0.06)	0	0			0	0		1	1.8	0.06 (0.06)
Hardnose Whaler	0	0			0	0			0	0			0	0		0	0	
Milk Shark	1	4		0.06 (0.06)	0	0			1	3.7		0.06 (0.06)	1	1.9	0.06 (0.06)	0	0	
Slit Eye Shark	0	0			0	0			0	0			0	0		0	0	
Spot-Tail Whaler	0	0			0	0			2	7.4		0.11 (0.08)	4	7.5	0.22 (0.13)	8	14.5	0.44 (0.2)
White-Cheek Shark	0	0			0	0			0	0			1	1.9	0.06 (0.06)	0	0	
Scalloped Hammerhead	0	0			0	0			0	0			0	0		0	0	
Winged Hammerhead	0	0			0	0			0	0			0	0		0	0	
Hammerhead Shark *	1	4		0.06 (0.06)	1	3.4		0.06 (0.06)	1	3.7		0.06 (0.06)	1	1.9	0.06 (0.06)	1	1.8	0.06 (0.06)
Tawny Shark	2	8	0.11 (0.08)		1	3.4	0.06 (0.06)		0	0			0	0		1	1.8	0.06 (0.06)
Grey Carpet Shark	0	0			0	0			0	0			0	0		0	0	
Unknown Shark	0	0			0	0			0	0			0	0		0	0	
Giant Shovelnosed R	0	0			0	0			0	0			0	0		0	0	
Shovelnosed Ray *	0	0			0	0			0	0			0	0		0	0	
Eagle Ray *	0	0			0	0			0	0			0	0		0	0	
Reticulate Whipray	0	0			0	0			0	0			0	0		0	0	
Ray	0	0			0	0			0	0			0	0		0	0	
Teleosts																		
Black Kingfish Cobia	0	0			0	0			1	3.7		0.06 (0.06)	0	0		0	0	
Catfish	0	0			0	0			0	0			0	0		0	0	
Cod	0	0			0	0			0	0			0	0		0	0	
Groper , Qld	0	0			0	0			0	0			0	0		0	0	
Jewfish	0	0			0	0			0	0			0	0		0	0	
Toadfish	0	0			0	0			0	0			0	0		0	0	
Marine Mammals																		
Australian Hb Dolphin	0	0			0	0			0	0			0	0		0	0	
Dolphin	0	0			0	0			0	0			0	0		0	0	
Marine Turtles																		
Green Turtle	0	0			0	0			0	0			0	0		0	0	
Loggerhead Turtle	0	0			0	0			0	0			0	0		0	0	
Turtle	0	0			0	0			0	0			0	0		0	0	
TOTAL CATCH	25				29				27				53				55	

CAPRICORN SCP catch by gear unit

TAXA	TANBY PT BEACH								FISHERMANS BEACH							
	DRUMLINE 41 (2001-2018)			DRUMLINE 42 (2001-2018)			DRUMLINE 40 (2007-2011)			DRUMLINE 43 (2001-2018)			DRUMLINE 44 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	
Australian Blacktip	0	0		1	2.1	0.06 (0.06)	0	0		0	0		0	0		
Bull Whaler	19	47.5	1.06 (0.17)	18	37.5	1 (0.27)	1	33.3	0.2 (0.2)	13	72.2	0.72 (0.16)	12	48	0.67 (0.16)	
Common Blacktip Whaler	0	0		0	0		0	0		0	0		0	0		
Dusky Whaler	0	0		0	0		0	0		0	0		0	0		
Great Hammerhead	1	2.5	0.06 (0.06)	0	0		0	0		0	0		1	4	0.06 (0.06)	
Long Nose Whaler	0	0		1	2.1	0.06 (0.06)	0	0		0	0		0	0		
Pigeye Whaler	0	0		1	2.1	0.06 (0.06)	1	33.3	0.2 (0.2)	0	0		0	0		
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		
Silky Whaler	0	0		0	0		0	0		0	0		0	0		
Tiger Shark	7	17.5	0.39 (0.18)	16	33.3	0.89 (0.2)	0	0		3	16.7	0.17 (0.09)	2	8	0.11 (0.08)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																
Aust Sharpnose Shark	0	0			1	2.1	0.06 (0.06)		0	0			0	0		
Blacktip Reef Whaler	5	12.5		0.28 (0.23)	2	4.2	0.11 (0.08)		1	33.3		0.2 (0.2)	0	0		0.11 (0.08)
Creek Whaler	0	0			0	0			0	0			0	0		
Graceful Whaler	1	2.5		0.06 (0.06)	0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0		
Milk Shark	0	0			2	4.2	0.11 (0.11)		0	0			0	0		0.06 (0.06)
Slit Eye Shark	0	0			0	0			0	0			0	0		
Spot-Tail Whaler	4	10		0.22 (0.13)	3	6.3	0.17 (0.09)		0	0			0	0		0.33 (0.18)
White-Cheek Shark	1	2.5		0.06 (0.06)	0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0		
Winged Hammerhead	0	0			0	0			0	0			0	0		
Hammerhead Shark *	1	2.5		0.06 (0.06)	3	6.3	0.17 (0.12)		0	0			1	5.6	0.06 (0.06)	0.06 (0.06)
Tawny Shark	1	2.5		0.06 (0.06)	0	0			0	0			0	0		
Grey Carpet Shark	0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0		
Giant Shovelnosed R	0	0			0	0			0	0			0	0		
Shovelnosed Ray *	0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0		
Teleosts																
Black Kingfish Cobia	0	0			0	0			0	0			0	0		
Catfish	0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0		
Groper , Qld	0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0		
Toadfish	0	0			0	0			0	0			0	0		
Marine Mammals																
Australian Hb Dolphin	0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0		
Marine Turtles																
Green Turtle	0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			1	5.6	0.06 (0.06)	
Turtle	0	0			0	0			0	0			0	0		
TOTAL CATCH	40				48				3				18			25

CAPRICORN SCP catch by gear unit

TAXA	FISHERMANS BEACH																EMU PARK BEACH			
	DRUMLINE 45 (2001-2018)				DRUMLINE 46 (2001-2018)				DRUMLINE 47 (2001-2018)				DRUMLINE 48 (2001-2018)				DRUMLINE 48 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Australian Blacktip	0	0		0	0		0	0		0	0		0	0		0	0			
Bull Whaler	10	45.5	0.56 (0.2)	11	55	0.61 (0.26)	11	44	0.61 (0.22)	6	31.6	0.55 (0.31)	10	33.3	0.56 (0.25)					
Common Blacktip Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Dusky Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Great Hammerhead	1	4.5	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0			
Long Nose Whaler	3	13.6	0.17 (0.12)	2	10	0.11 (0.08)	0	0		0	0		2	6.7	0.11 (0.08)					
Pigeye Whaler	2	9.1	0.11 (0.08)	0	0		0	0		1	5.3	0.09 (0.09)	0	0		0	0			
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Silky Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Tiger Shark	3	13.6	0.17 (0.09)	5	25	0.28 (0.14)	5	20	0.28 (0.14)	10	52.6	0.91 (0.25)	6	20	0.33 (0.2)					
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			0	0		
Blacktip Reef Whaler	1	4.5		0.06 (0.06)	1	5		0.06 (0.06)	1	4		0.06 (0.06)	0	0			4	13.3		0.22 (0.17)
Creek Whaler	0	0			0	0			0	0			0	0			1	3.3		0.06 (0.06)
Graceful Whaler	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Milk Shark	0	0			0	0			1	4		0.06 (0.06)	0	0			1	3.3		0.06 (0.06)
Slit Eye Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			0	0			4	13.3		0.22 (0.1)
White-Cheek Shark	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			1	4		0.06 (0.06)	0	0			0	0		
Winged Hammerhead	0	0			0	0			0	0			0	0			1	3.3		0.06 (0.06)
Hammerhead Shark *	1	4.5		0.06 (0.06)	0	0			2	8		0.11 (0.08)	1	5.3		0.09 (0.09)	0	0		
Tawny Shark	0	0			0	0			2	8		0.11 (0.08)	1	5.3		0.09 (0.09)	0	0		
Grey Carpet Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Giant Shovelnosed R	0	0			0	0			0	0			0	0			0	0		
Shovelnosed Ray *	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Catfish	0	0			0	0			0	0			0	0			1	3.3		0.06 (0.06)
Cod	0	0			0	0			0	0			0	0			0	0		
Groper , Qld	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			1	5		0.06 (0.06)	0	0			0	0			0	0		
Toadfish	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	1	4.5	0.06 (0.06)		0	0			2	8	0.06 (0.06)	0.06 (0.06)	0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	22				20				25				19				30			

CAPRICORN SCP catch by gear unit

TAXA	DRUMLINE 49 (2001-2018)						DRUMLINE 50 (2001-2018)			EMU PARK BEACH DRUMLINE 51 (2001-2018)				DRUMLINE 52 (2001-2018)			DRUMLINE 53 (2001-2018)			
	Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	
Australian Blacktip	1	2.3	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0			
Bull Whaler	22	51.2	1.22 (0.3)	22	61.1	1.22 (0.32)	20	64.5	1.11 (0.29)	13	44.8	0.72 (0.19)	12	54.5	0.67 (0.2)					
Common Blacktip Whaler	0	0		0	0		0	0		1	3.4	0.06 (0.06)	0	0						
Dusky Whaler	0	0		0	0		0	0		0	0		0	0						
Great Hammerhead	0	0		0	0		0	0		0	0		0	0						
Long Nose Whaler	3	7	0.17 (0.12)	1	2.8	0.06 (0.06)	1	3.2	0.06 (0.06)	2	6.9	0.11 (0.11)	0	0						
Pigeye Whaler	0	0		1	2.8	0.06 (0.06)	1	3.2	0.06 (0.06)	3	10.3	0.17 (0.12)	0	0						
Sandbar Whaler	0	0		0	0		0	0		0	0		1	4.5	0.06 (0.06)					
Sharptooth Shark	0	0		1	2.8	0.06 (0.06)	0	0		0	0		0	0						
Silky Whaler	0	0		0	0		0	0		0	0		0	0						
Tiger Shark	11	25.6	0.61 (0.14)	5	13.9	0.28 (0.11)	4	12.9	0.22 (0.1)	8	27.6	0.44 (0.18)	2	9.1	0.11 (0.08)					
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			1	2.8		0.06 (0.06)	0	0			0	0			0	0		
Blacktip Reef Whaler	2	4.7		0.11 (0.11)	0	0			2	6.5		0.11 (0.11)	0	0			0	0		
Creek Whaler	0	0			0	0			0	0			0	0			0	0		
Graceful Whaler	0	0			1	2.8		0.06 (0.06)	0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			1	4.5		0.06 (0.06)
Milk Shark	0	0			3	8.3		0.17 (0.12)	0	0			0	0			2	9.1		0.11 (0.08)
Slit Eye Shark	0	0			0	0			1	3.2		0.06 (0.06)	0	0			0	0		
Spot-Tail Whaler	4	9.3		0.22 (0.1)	0	0			2	6.5		0.11 (0.08)	1	3.4		0.06 (0.06)	2	9.1		0.11 (0.08)
White-Cheek Shark	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Winged Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			1	4.5		0.06 (0.06)
Tawny Shark	0	0			1	2.8		0.06 (0.06)	0	0			0	0			1	4.5		0.06 (0.06)
Grey Carpet Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Giant Shovelnosed R	0	0			0	0			0	0			0	0			0	0		
Shovelnosed Ray *	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
Reticulate Whipray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Catfish	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Groper , Qld	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Toadfish	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			1	3.4		0.06 (0.06)	0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	43				36				31				29				22			

CAPRICORN SCP catch by gear unit

TAXA	EMU PARK BEACH			
	DRUMLINE 51 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	
Australian Blacktip	0	0		
Bull Whaler	11	39.3	0.61 (0.24)	
Common Blacktip Whaler	1	3.6	0.06 (0.06)	
Dusky Whaler	0	0		
Great Hammerhead	0	0		
Long Nose Whaler	3	10.7	0.17 (0.12)	
Pigeye Whaler	1	3.6	0.06 (0.06)	
Sandbar Whaler	0	0		
Sharptooth Shark	0	0		
Silky Whaler	0	0		
Tiger Shark	2	7.1	0.11 (0.08)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays				
Aust Sharpnose Shark	1	3.6		0.06 (0.06)
Blacktip Reef Whaler	2	7.1		0.11 (0.08)
Creek Whaler	0	0		
Graceful Whaler	0	0		
Hardnose Whaler	0	0		
Milk Shark	1	3.6		0.06 (0.06)
Slit Eye Shark	0	0		
Spot-Tail Whaler	3	10.7		0.17 (0.09)
White-Cheek Shark	0	0		
Scalloped Hammerhead	0	0		
Winged Hammerhead	0	0		
Hammerhead Shark *	0	0		
Tawny Shark	1	3.6	0.06 (0.06)	
Grey Carpet Shark	0	0		
Unknown Shark	1	3.6	0.06 (0.06)	
Giant Shovelnosed R	0	0		
Shovelnosed Ray *	0	0		
Eagle Ray *	0	0		
Reticulate Whipray	0	0		
Ray	0	0		
Teleosts				
Black Kingfish Cobia	0	0		
Catfish	0	0		
Cod	0	0		
Groper , Qld	0	0		
Jewfish	0	0		
Toadfish	0	0		
Marine Mammals				
Australian Hb Dolphin	0	0		
Dolphin	0	0		
Marine Turtles				
Green Turtle	0	0		
Loggerhead Turtle	1	3.6	0.06 (0.06)	
Turtle	0	0		
TOTAL CATCH	28			

TANNUM SANDS SCP catch per gear unit

TAXA																					
TANNUM SANDS BEACH																					
DRUMLINE 1 (2001-2018)				DRUMLINE 2 (2001-2018)				DRUMLINE 3 (2001-2018)				DRUMLINE 4 (2001-2018)				DRUMLINE 5 (2001-2018)					
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)
Australian Blacktip	0	0		1	1.4	0.06 (0.06)	2	2.2	0.11 (0.08)	1	1.6	0.06 (0.06)	0	0		0	0		0	0	
Bull Whaler	5	7.9	0.28 (0.11)	15	21.7	0.83 (0.27)	12	13.2	0.67 (0.27)	8	13.1	0.44 (0.2)	8	12.9	0.44 (0.15)	8	12.9	0.44 (0.15)	8	12.9	0.44 (0.15)
Common Blacktip Wha	6	9.5	0.33 (0.23)	9	13	0.5 (0.28)	14	15.4	0.78 (0.42)	9	14.8	0.5 (0.2)	7	11.3	0.39 (0.14)	7	11.3	0.39 (0.14)	7	11.3	0.39 (0.14)
Dusky Whaler	0	0		0	0		0	0		1	1.6	0.06 (0.06)	0	0		0	0		0	0	
Long Nose Whaler	0	0		0	0		0	0		0	0		1	1.6	0.06 (0.06)	1	1.6	0.06 (0.06)	1	1.6	0.06 (0.06)
Pigeys Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0	
Sandbar Whaler	4	6.3	0.22 (0.1)	0	0		1	1.1	0.06 (0.06)	2	3.3	0.11 (0.08)	2	3.2	0.11 (0.08)	2	3.2	0.11 (0.08)	2	3.2	0.11 (0.08)
Sharptooth Shark	2	3.2	0.11 (0.08)	1	1.4	0.06 (0.06)	1	1.1	0.06 (0.06)	0	0		1	1.6	0.06 (0.06)	1	1.6	0.06 (0.06)	1	1.6	0.06 (0.06)
Tiger Shark	8	12.7	0.44 (0.18)	16	23.2	0.89 (0.25)	11	12.1	0.61 (0.16)	8	13.1	0.44 (0.12)	12	19.4	0.67 (0.21)	12	19.4	0.67 (0.21)	12	19.4	0.67 (0.21)
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	
Sharks & Rays																					
Aust Sharpnose Shark	1	1.6		0.06 (0.06)	0	0			0	0			0	0			0	0			
Blacktip Reef Whaler	29	46	0.06 (0.06)	1.56 (0.46)	24	34.8	0.06 (0.06)	1.28 (0.39)	46	50.5	2.56 (0.6)	31	50.8	0.06 (0.06)	1.67 (0.38)	27	43.5			1.5 (0.43)	
Creek Whaler	0	0			1	1.4		0.06 (0.06)	0	0			0	0			0	0			
Graceful Whaler	0	0			0	0			0	0			0	0			0	0			
Hardnose Whaler	0	0			0	0			1	1.1	0.06 (0.06)	0	0				0	0			
Milk Shark	0	0			0	0			0	0			0	0			0	0			
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0			
Unidentified Whaler	0	0			0	0			0	0			0	0			1	1.6		0.06 (0.06)	
Scalloped Hammerhead	0	0			0	0			1	1.1	0.06 (0.06)	0	0				0	0			
Hammerhead Shark *	3	4.8		0.17 (0.09)	0	0			0	0			0	0			0	0			
Tawny Shark	0	0			0	0			0	0			0	0			0	0			
Wobbegong *	1	1.6		0.06 (0.06)	0	0			0	0			1	1.6	0.06 (0.06)	0	0				
Unidentified Shark	0	0			0	0			0	0			0	0			0	0			
Shovel-nosed Ray *	0	0			0	0			0	0			0	0			1	1.6		0.06 (0.06)	
Teleosts																					
Cod	0	0			0	0			0	0			0	0			0	0			
Groper , Qld	1	1.6	0.06 (0.06)		0	0			1	1.1	0.06 (0.06)		0	0			0	0			
Marine Turtles																					
Green Turtle	3	4.8	0.17 (0.12)		2	2.9	0.11 (0.08)		0	0			0	0			2	3.2		0.11 (0.08)	
Loggerhead Turtle	0	0			0	0			1	1.1	0.06 (0.06)		0	0			0	0			
TOTAL CATCH	63				69				91				61				62				

TANNUM SANDS SCP catch per gear unit

TAXA	TANNUM SANDS BEACH																
	DRUMLINE 6 (2001-2018)			DRUMLINE 7 (2001-2018)			DRUMLINE 8 (2001-2018)			DRUMLINE 9 (2001-2018)			DRUMLINE 10 (2001-2018)				
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Australian Blacktip	1	2.3	0.06 (0.06)	2	3.3	0.11 (0.11)	1	2	0.06 (0.06)	0	0		3	3.9	0.17 (0.12)		
Bull Whaler	9	20.5	0.5 (0.25)	8	13.3	0.44 (0.18)	4	8.2	0.22 (0.1)	6	11.5	0.33 (0.16)	5	6.5	0.28 (0.11)		
Common Blacktip Wha	2	4.5	0.11 (0.08)	6	10	0.33 (0.2)	10	20.4	0.56 (0.26)	4	7.7	0.22 (0.13)	11	14.3	0.61 (0.28)		
Dusky Whaler	1	2.3	0.06 (0.06)	0	0		1	2	0.06 (0.06)	1	1.9	0.06 (0.06)	1	1.3	0.06 (0.06)		
Long Nose Whaler	0	0		2	3.3	0.11 (0.11)	0	0		0	0		1	1.3	0.06 (0.06)		
Pigeys Whaler	0	0		0	0		0	0		0	0		0	0			
Sandbar Whaler	1	2.3	0.06 (0.06)	1	1.7	0.06 (0.06)	4	8.2	0.22 (0.13)	2	3.8	0.11 (0.08)	1	1.3	0.06 (0.06)		
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0			
Tiger Shark	10	22.7	0.56 (0.2)	8	13.3	0.44 (0.17)	10	20.4	0.56 (0.12)	14	26.9	0.78 (0.25)	14	18.2	0.78 (0.25)		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	
Sharks & Rays																	
Aust Sharpnose Shark	0	0		0	0		0	0	0	0		0	0	0	0		
Blacktip Reef Whaler	16	36.4		0.89 (0.29)	30	50		1.67 (0.5)	17	34.7	0.94 (0.32)	23	44.2	1.28 (0.52)	38	49.4	2.11 (0.64)
Creek Whaler	0	0			0	0			0	0			0	0			
Graceful Whaler	0	0			1	1.7		0.06 (0.06)	0	0			0	0			
Hardnose Whaler	0	0			0	0			0	0			0	0			
Milk Shark	0	0			0	0			1	2	0.06 (0.06)	0	0	0	0		
Spot-Tail Whaler	0	0			0	0			1	2	0.06 (0.06)	1	1.9	0.06 (0.06)	0	0	
Unidentified Whaler	0	0			0	0			0	0			0	0			
Scalloped Hammerhead	1	2.3		0.06 (0.06)	0	0			0	0			0	0		0.06 (0.06)	
Hammerhead Shark *	1	2.3		0.06 (0.06)	1	1.7		0.06 (0.06)	0	0			0	0			
Tawny Shark	0	0			0	0			0	0			1	1.9	0.06 (0.06)	0	0
Wobbegong *	0	0			0	0			0	0			0	0			
Unidentified Shark	0	0			0	0			0	0			0	0			
Shovelnosed Ray *	0	0			1	1.7		0.06 (0.06)	0	0			0	0			
Teleosts																	
Cod	0	0			0	0			0	0			0	0			
Groper , Qld	0	0			0	0			0	0			0	0			
Marine Turtles																	
Green Turtle	2	4.5	0.11 (0.08)		0	0			0	0			0	0		0.11 (0.08)	
Loggerhead Turtle	0	0			0	0			0	0			0	0			
TOTAL CATCH	44				60				49				52				

TANNUM SANDS SCP catch per gear unit

TAXA	TANNUM SANDS BEACH																			
	DRUMLINE 11 (2001-2018)				DRUMLINE 12 (2001-2018)				DRUMLINE 13 (2001-2006)				DRUMLINE 14 (2001-2006)				DRUMLINE 15 (2001-2006)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)
Australian Blacktip	0	0			4	4.2	0.22 (0.17)		0	0			0	0			0	0		
Bull Whaler	5	5.7	0.28 (0.11)		11	11.5	0.61 (0.2)		2	22.2	0.33 (0.21)		2	18.2	0.33 (0.33)		0	0		
Common Blacktip Wha	15	17	0.83 (0.29)		14	14.6	0.78 (0.36)		0	0			0	0			1	10	0.17 (0.17)	
Dusky Whaler	1	1.1	0.06 (0.06)		1	1	0.06 (0.06)		0	0			0	0			0	0		
Long Nose Whaler	0	0			1	1	0.06 (0.06)		0	0			0	0			0	0		
Pigeys Whaler	1	1.1	0.06 (0.06)		0	0			0	0			0	0			0	0		
Sandbar Whaler	2	2.3	0.11 (0.08)		1	1	0.06 (0.06)		0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	16	18.2	0.89 (0.25)		14	14.6	0.78 (0.26)		6	66.7	1 (1)		2	18.2	0.33 (0.21)		4	40	0.67 (0.33)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Aust Sharpnose Shark	0	0			0	0			0	0			0	0			0	0		
Blacktip Reef Whaler	45	51.1		2.5 (0.69)	48	50	0.06 (0.06)	2.61 (0.63)	1	11.1	0.17 (0.17)		5	45.5		0.83 (0.31)	3	30		0.5 (0.34)
Creek Whaler	0	0			0	0			0	0			0	0			0	0		
Graceful Whaler	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Milk Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	1	1.1		0.06 (0.06)	0	0			0	0			0	0			0	0		
Unidentified Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	2	2.3		0.11 (0.08)	1	1		0.06 (0.06)	0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Wobbegong *	0	0			0	0			0	0			0	0			0	0		
Unidentified Shark	0	0			1	1		0.06 (0.06)	0	0			0	0			0	0		
Shovelnosed Ray *	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Cod	0	0			0	0			0	0			0	0			1	10	0.17 (0.17)	
Groper , Qld	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			2	18.2	0.33 (0.33)		1	10	0.17 (0.17)	
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	88				96				9				11				10			

TANNUM SANDS SCP catch per gear unit

TAXA	TANNUM SANDS BEACH															
	DRUMLINE 16 (2001-2018)				DRUMLINE 17 (2001-2018)				DRUMLINE 18 (2001-2006)				DRUMLINE 19 (2001-2006)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)
Australian Blacktip	0	0			0	0			0	0			0	0		
Bull Whaler	1	8.3	0.17 (0.17)		4	28.6	0.67 (0.33)		2	18.2	0.33 (0.21)		2	9.5	0.33 (0.21)	
Common Blacktip Wha	1	8.3	0.17 (0.17)		0	0			2	18.2	0.33 (0.33)		0	0		
Dusky Whaler	0	0			0	0			0	0			0	0		
Long Nose Whaler	0	0			0	0			0	0			0	0		
Pigeye Whaler	0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			0	0			1	4.8	0.17 (0.17)	
Tiger Shark	3	25	0.5 (0.34)		3	21.4	0.5 (0.22)		1	9.1	0.17 (0.17)		8	38.1	1.33 (0.33)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																
Aust Sharpnose Shark	0	0			0	0			0	0			0	0		
Blacktip Reef Whaler	5	41.7		0.83 (0.65)	6	42.9	1 (0.63)		5	45.5		0.83 (0.48)	8	38.1		1.33 (0.21)
Creek Whaler	0	0			0	0			0	0			0	0		
Graceful Whaler	0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0		
Milk Shark	0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			0	0		
Unidentified Whaler	0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			1	9.1		0.17 (0.17)	0	0		
Tawny Shark	0	0			0	0			0	0			2	9.5	0.33 (0.21)	
Wobbegong *	0	0			0	0			0	0			0	0		
Unidentified Shark	0	0			0	0			0	0			0	0		
Shovel-nosed Ray *	0	0			0	0			0	0			0	0		
Teleosts																
Cod	0	0			0	0			0	0			0	0		
Groper , Qld	0	0			0	0			0	0			0	0		
Marine Turtles																
Green Turtle	0	0			0	0			0	0			0	0		
Loggerhead Turtle	2	16.7	0.33 (0.21)		1	7.1	0.17 (0.17)		0	0			0	0		
TOTAL CATCH	12				14				11				21			

WOONGARRA SCP catch per gear unit

TAXA	OAKS BEACH								NEILSON PARK BEACH							
	DRUMLINE 1 (2001-2018)			DRUMLINE 2 (2001-2018)			DRUMLINE 3 (2001-2018)			DRUMLINE 4 (2001-2018)			DRUMLINE 5 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a.	Total No. Caught	% Total	Mean No. p.a.	Total No. Caught	% Total	Mean No. p.a.	Total No. Caught	% Total	Mean No. p.a.	Total No. Caught	% Total	Mean No. p.a.	
Australian Blacktip	0	0		0	0		0	0		0	0		0	0		
Bull Whaler	1	3	0.06 (0.06)	0	0		5	6	0.28 (0.14)	0	0		4	6.9	0.22 (0.1)	
Common Blacktip Wha	0	0		0	0		0	0		0	0		0	0		
Dusky Whaler	0	0		0	0		2	2.4	0.11 (0.08)	0	0		1	1.7	0.06 (0.06)	
Long Nose Whaler	0	0		0	0		1	1.2	0.06 (0.06)	0	0		0	0		
Pigeys Whaler	1	3	0.06 (0.06)	3	21.4	0.17 (0.12)	3	3.6	0.17 (0.09)	3	21.4	0.17 (0.12)	6	10.3	0.33 (0.11)	
Sandbar Whaler	0	0		5	35.7	0.28 (0.18)	11	13.3	0.61 (0.2)	5	35.7	0.28 (0.18)	1	1.7	0.06 (0.06)	
Sharptooth Shark	2	6.1	0.11 (0.08)	0	0		0	0		0	0		1	1.7	0.06 (0.06)	
Tiger Shark	8	24.2	0.44 (0.18)	2	14.3	0.11 (0.08)	42	50.6	2.33 (0.41)	2	14.3	0.11 (0.08)	29	50	1.61 (0.32)	
White Shark	0	0		0	0		0	0		0	0		1	1.7	0.06 (0.06)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																
Blacktip Reef Whaler	1	3	0.06 (0.06)		1	7.1			7	8.4		0.39 (0.2)	1	7.1		0.11 (0.08)
Spot-Tail Whaler	0	0			0	0			1	1.2		0.06 (0.06)	0	0		
Whaler	0	0			1	7.1			1	1.2	0.06 (0.06)		1	7.1		
Scalloped Hammerhead	0	0			0	0		0.06 (0.06)	3	3.6		0.17 (0.09)	0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0		
Tawny Shark	1	3		0.06 (0.06)	0	0			1	1.2	0.06 (0.06)		0	0		0.11 (0.08)
Zebra Shark	0	0			0	0			0	0			0	0		
Unknown Shark	0	0			1	7.1			0	0			1	7.1		0.17 (0.09)
Manta Ray	2	6.1		0.11 (0.08)	0	0			2	2.4	0.06 (0.06)	0.06 (0.06)	0	0		
Shark Ray	0	0			0	0			0	0			0	0		0.06 (0.06)
White-Spotted Guitar	0	0			1	7.1			0	0			1	7.1		
Teleosts																
Catfish	0	0			0	0			1	1.2		0.06 (0.06)	0	0		0.06 (0.06)
Groper , Qld	0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0		
Toadfish	2	6.1	0.06 (0.06)	0.06 (0.06)	0	0		0.11 (0.11)	1	1.2		0.06 (0.06)	0	0		
Marine Turtles																
Green Turtle	11	33.3	0.17 (0.12)	0.44 (0.18)	0	0	0.22 (0.1)	0.06 (0.06)	1	1.2	0.06 (0.06)		0	0	0.17 (0.17)	
Loggerhead Turtle	4	12.1		0.22 (0.13)	0	0	0.11 (0.08)		1	1.2	0.06 (0.06)		0	0	0.11 (0.08)	
Unidentified Turtle	0	0			0	0	0.06 (0.06)		0	0			0	0		
TOTAL CATCH	33				14				83				14			58

WOONGARRA SCP catch per gear unit

TAXA	NEILSON PARK BEACH				BARGARA BEACH															
	DRUMLINE 6 (2001-2018)		DRUMLINE 7 (2001-2018)		DRUMLINE 8 (2001-2018)		DRUMLINE 9 (2001-2018)		DRUMLINE 10 (2001-2018)											
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Australian Blacktip	0	0		0	0		0	0		0	0		0	0		0	0			
Bull Whaler	2	4.3	0.11 (0.08)	2	3.2	0.11 (0.08)	4	8.9	0.22 (0.13)	1	2.8	0.06 (0.06)	0	0		0	0			
Common Blacktip Wha	0	0		0	0		0	0		0	0		0	0		0	0			
Dusky Whaler	0	0		1	1.6	0.06 (0.06)	0	0		0	0		0	0		0	0			
Long Nose Whaler	1	2.1	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0			
Pigeys Whaler	3	6.4	0.17 (0.09)	0	0		5	11.1	0.28 (0.11)	2	5.6	0.11 (0.08)	3	21.4	0.17 (0.12)					
Sandbar Whaler	3	6.4	0.17 (0.09)	4	6.5	0.22 (0.1)	1	2.2	0.06 (0.06)	5	13.9	0.28 (0.14)	5	35.7	0.28 (0.18)					
Sharptooth Shark	1	2.1	0.06 (0.06)	2	3.2	0.11 (0.08)	2	4.4	0.11 (0.08)	0	0		0	0						
Tiger Shark	25	53.2	1.39 (0.33)	29	46.8	1.61 (0.32)	22	48.9	1.22 (0.19)	16	44.4	0.89 (0.21)	2	14.3	0.11 (0.08)					
White Shark	0	0		1	1.6	0.06 (0.06)	1	2.2	0.06 (0.06)	0	0		0	0						
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			2	3.2		0.11 (0.08)	1	2.2		0.06 (0.06)	2	5.6		0.11 (0.08)	1	7.1		
Spot-Tail Whaler	0	0			2	3.2		0.11 (0.08)	0	0			1	2.8		0.06 (0.06)	0	0		
Whaler	0	0			1	1.6		0.06 (0.06)	0	0			0	0			1	7.1		
Scalloped Hammerhead	1	2.1		0.06 (0.06)	1	1.6		0.06 (0.06)	1	2.2		0.06 (0.06)	1	2.8		0.06 (0.06)	0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	1	2.1	0.06 (0.06)		1	1.6	0.06 (0.06)		0	0			0	0			0	0	0.06 (0.06)	
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			1	7.1		
Manta Ray	2	4.3	0.11 (0.08)		2	3.2	0.11 (0.08)		1	2.2		0.06 (0.06)	1	2.8	0.06 (0.06)		0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	1	2.1		0.06 (0.06)	0	0			1	2.2	0.06 (0.06)		0	0			1	7.1		0.06 (0.06)
Teleosts																				
Catfish	0	0			1	1.6		0.06 (0.06)	0	0			0	0			0	0		0.06 (0.06)
Groper , Qld	0	0			0	0			0	0			1	2.8	0.06 (0.06)		0	0		
Snapper	0	0			2	3.2		0.11 (0.08)	0	0			1	2.8		0.06 (0.06)	0	0		0.06 (0.06)
Toadfish	1	2.1		0.06 (0.06)	2	3.2		0.11 (0.08)	1	2.2		0.06 (0.06)	1	2.8		0.06 (0.06)	0	0		
Marine Turtles																				
Green Turtle	2	4.3	0.11 (0.08)		3	4.8	0.17 (0.09)		3	6.7	0.17 (0.09)		1	2.8	0.06 (0.06)		0	0		
Loggerhead Turtle	4	8.5	0.22 (0.1)		5	8.1	0.28 (0.18)		2	4.4	0.11 (0.08)		3	8.3	0.17 (0.09)		0	0	0.06 (0.06)	
Unidentified Turtle	0	0			1	1.6	0.06 (0.06)		0	0			0	0			0	0		
TOTAL CATCH	47				62				45				36				14			

WOONGARRA SCP catch per gear unit

TAXA	BARGARA BEACH				KELLYS BEACH															
	DRUMLINE 11 (2001-2018)				DRUMLINE 12 (2001-2018)				DRUMLINE 13 (2001-2018)				DRUMLINE 14 (2001-2018)				DRUMLINE 15 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	
Australian Blacktip	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	0	0			3	4	0.17 (0.12)		0	0			1	1.3	0.06 (0.06)		6	8.1	0.33 (0.14)	
Common Blacktip Wha	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	0	0			0	0			0	0			0	0			0	0		
Long Nose Whaler	0	0			0	0			0	0			2	2.6	0.11 (0.08)		2	2.7	0.11 (0.08)	
Pigeye Whaler	0	0			11	14.7	0.61 (0.18)		3	21.4	0.17 (0.12)		7	9.1	0.39 (0.14)		5	6.8	0.28 (0.14)	
Sandbar Whaler	2	10.5	0.11 (0.08)		2	2.7	0.11 (0.08)		5	35.7	0.28 (0.18)		3	3.9	0.17 (0.09)		6	8.1	0.33 (0.14)	
Sharptooth Shark	1	5.3	0.06 (0.06)		3	4	0.17 (0.09)		0	0			2	2.6	0.11 (0.08)		0	0		
Tiger Shark	3	15.8	0.17 (0.09)		46	61.3	2.56 (0.41)		2	14.3	0.11 (0.08)		54	70.1	3 (0.43)		44	59.5	2.44 (0.49)	
White Shark	0	0			0	0			0	0			0	0			2	2.7	0.11 (0.08)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	1	5.3		0.06 (0.06)	1	1.3		0.06 (0.06)	1	7.1			4	5.2		0.22 (0.13)	1	1.4		0.06 (0.06)
Spot-Tail Whaler	0	0			1	1.3		0.06 (0.06)	0	0			0	0			0	0		
Whaler	0	0			0	0			1	7.1		0.06 (0.06)	0	0			0	0		
Scalloped Hammerhead	0	0			2	2.7	0.06 (0.06)	0.06 (0.06)	0	0		0.11 (0.08)	0	0			1	1.4		0.06 (0.06)
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	1	5.3	0.06 (0.06)		2	2.7	0.11 (0.08)		0	0			1	1.3	0.06 (0.06)		2	2.7	0.06 (0.06)	0.06 (0.06)
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			1	1.3		0.06 (0.06)	1	7.1		0.11 (0.11)	2	2.6		0.11 (0.08)	1	1.4		0.06 (0.06)
Manta Ray	0	0			1	1.3	0.06 (0.06)		0	0			1	1.3	0.06 (0.06)		0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			1	7.1			0	0			0	0		
Teleosts																				
Catfish	1	5.3		0.06 (0.06)	0	0			0	0			0	0			0	0		
Groper , Qld	1	5.3	0.06 (0.06)		1	1.3	0.06 (0.06)		0	0			0	0			0	0		
Snapper	5	26.3	0.06 (0.06)	0.22 (0.13)	1	1.3		0.06 (0.06)	0	0			0	0			0	0		
Toadfish	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0	0.06 (0.06)		0	0			0	0		
Loggerhead Turtle	4	21.1	0.22 (0.13)		0	0			0	0			0	0			4	5.4	0.22 (0.13)	
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	19				75				14				77				74			

WOONGARRA SCP catch per gear unit

TAXA	KELLYS BEACH																			
	DRUMLINE 16 (2001-2018)				DRUMLINE 17 (2001-2018)				DRUMLINE 18 (2001-2018)				DRUMLINE 19 (2001-2018)				DRUMLINE 20 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	
Australian Blacktip	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	2	4.1	0.11 (0.08)		1	1.4	0.06 (0.06)		3	4.5	0.17 (0.12)		1	2.4	0.06 (0.06)		1	3.3	0.06 (0.06)	
Common Blacktip Wha	0	0			0	0			1	1.5	0.06 (0.06)		0	0			0	0		
Dusky Whaler	0	0			0	0			0	0			0	0			0	0		
Long Nose Whaler	1	2	0.06 (0.06)		1	1.4	0.06 (0.06)		0	0			0	0			0	0		
Pigeye Whaler	3	6.1	0.17 (0.09)		6	8.7	0.33 (0.16)		5	7.6	0.28 (0.11)		3	7.1	0.17 (0.09)		0	0		
Sandbar Whaler	4	8.2	0.22 (0.1)		2	2.9	0.11 (0.08)		5	7.6	0.28 (0.14)		3	7.1	0.17 (0.12)		0	0		
Sharptooth Shark	0	0			0	0			2	3	0.11 (0.08)		0	0			6	20	0.33 (0.18)	
Tiger Shark	32	65.3	1.78 (0.31)		43	62.3	2.39 (0.26)		39	59.1	2.17 (0.32)		32	76.2	1.78 (0.49)		13	43.3	0.72 (0.21)	
White Shark	0	0			1	1.4	0.06 (0.06)		1	1.5	0.06 (0.06)		0	0			0	0		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	2	4.1		0.11 (0.08)	2	2.9		0.11 (0.08)	2	3		0.11 (0.08)	0	0			3	10		0.17 (0.12)
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			1	1.4		0.06 (0.06)	0	0			0	0			1	3.3		0.06 (0.06)
Scalloped Hammerhead	0	0			0	0			1	1.5		0.06 (0.06)	0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	1	2	0.06 (0.06)		0	0			2	3	0.11 (0.08)		2	4.8	0.11 (0.08)		0	0		
Zebra Shark	0	0			0	0			0	0			0	0			1	3.3		0.06 (0.06)
Unknown Shark	2	4.1		0.11 (0.08)	4	5.8		0.22 (0.17)	1	1.5		0.06 (0.06)	0	0			2	6.7		0.11 (0.08)
Manta Ray	1	2	0.06 (0.06)		1	1.4	0.06 (0.06)		0	0			1	2.4	0.06 (0.06)		1	3.3	0.06 (0.06)	
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Catfish	0	0			0	0			0	0			0	0			0	0		
Groper , Qld	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			1	3.3		0.06 (0.06)
Toadfish	0	0			0	0			1	1.5		0.06 (0.06)	0	0			0	0		
Marine Turtles																				
Green Turtle	1	2	0.06 (0.06)		1	1.4	0.06 (0.06)		3	4.5	0.17 (0.12)		0	0			0	0		
Loggerhead Turtle	0	0			5	7.2	0.28 (0.16)		0	0			0	0			1	3.3	0.06 (0.06)	
Unidentified Turtle	0	0			1	1.4	0.06 (0.06)		0	0			0	0			0	0		
TOTAL CATCH	49				69				66				42				30			

RAINBOW SCP catch per gear unit

TAXA	RAINBOW BEACH																			
	DRUMLINE 1 (2001-2018)			DRUMLINE 2 (2001-2018)			DRUMLINE 3 (2001-2018)			DRUMLINE 4 (2001-2018)			DRUMLINE 5 (2001-2018)							
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Bull Whaler	1	2.1	0.06 (0.06)	1	2.3	0.06 (0.06)	3	6.3	0.17 (0.09)	1	2	0.06 (0.06)	5	7.8	0.28 (0.11)					
Common Blacktip Whaler	1	2.1	0.06 (0.06)	0	0		1	2.1	0.06 (0.06)	0	0		1	1.6	0.06 (0.06)					
Dusky Whaler	1	2.1	0.06 (0.06)	1	2.3	0.06 (0.06)	4	8.3	0.22 (0.17)	4	7.8	0.22 (0.13)	3	4.7	0.17 (0.09)					
Great Hammerhead	0	0		0	0		0	0		0	0		0	0						
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0						
Long Nose Whaler	1	2.1	0.06 (0.06)	1	2.3	0.06 (0.06)	0	0		0	0		0	0						
Mako	0	0		0	0		0	0		0	0		0	0						
Pigeye Whaler	3	6.3	0.17 (0.17)	0	0		0	0		0	0		0	0						
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0						
Sharptooth Shark	0	0		0	0		1	2.1	0.06 (0.06)	0	0		0	0						
Silky Whaler	0	0		0	0		0	0		1	2	0.06 (0.06)	0	0						
Silver Tip Whaler	0	0		0	0		1	2.1	0.06 (0.06)	0	0		0	0						
Tiger Shark	29	60.4	1.61 (0.66)	21	47.7	1.17 (0.28)	27	56.3	1.5 (0.29)	26	51	1.44 (0.4)	32	50	1.78 (0.41)					
White Shark	0	0		1	2.3	0.06 (0.06)	0	0		0	0		1	1.6	0.06 (0.06)					
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	2	4.2	0.11 (0.08)		0	0			1	2.1		0.06 (0.06)	0	0			2	3.1		0.11 (0.08)
Graceful Whaler	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Unidentified Whaler	0	0			0	0			0	0			2	3.9		0.11 (0.08)	0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Unidentified Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Unidentified Wobbegong *	1	2.1	0.06 (0.06)		0	0			0	0			0	0			0	0		
Unidentified Shark	2	4.2		0.11 (0.11)	0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
Shovel nosed Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar Fish	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Stingaree	0	0			0	0			0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Groper , Qld	0	0			0	0			0	0			1	2	0.06 (0.06)		0	0		
Mackeral	0	0			0	0			0	0			0	0			0	0		
Marlin	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Wahoo	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			1	2	0.06 (0.06)		1	1.6	0.06 (0.06)	
Common Dolphin	0	0			0	0			0	0			0	0			1	1.6		0.06 (0.06)
Unidentified Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			1	2.3	0.06 (0.06)		0	0			0	0			1	1.6	0.06 (0.06)	
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	7	14.6	0.39 (0.16)		18	40.9	1 (0.41)		10	20.8	0.56 (0.2)		15	29.4	0.83 (0.31)		17	26.6	0.94 (0.22)	
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	48				44				48				51				64			

RAINBOW SCP catch per gear unit

TAXA	RAINBOW BEACH																			
	DRUMLINE 6 (2001-2018)			DRUMLINE 7 (2001-2018)				DRUMLINE 8 (2001-2018)			DRUMLINE 9 (2001-2018)			DRUMLINE 10 (2001-2018)						
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Bull Whaler	1	1.9	0.06 (0.06)	3	6.8	0.17 (0.09)	7	11.1	0.39 (0.16)	6	16.7	0.33 (0.18)	4	9.8	0.22 (0.1)					
Common Blacktip Whaler	0	0		1	2.3	0.06 (0.06)	0	0		0	0		0	0						
Dusky Whaler	0	0		2	4.5	0.11 (0.08)	3	4.8	0.17 (0.12)	0	0		1	2.4	0.06 (0.06)					
Great Hammerhead	0	0		0	0		0	0		1	2.8	0.06 (0.06)	0	0						
Grey Reef Whaler	1	1.9	0.06 (0.06)	0	0		0	0		0	0		0	0						
Long Nose Whaler	1	1.9	0.06 (0.06)	0	0		0	0		1	2.8	0.06 (0.06)	0	0						
Mako	0	0		0	0		0	0		0	0		0	0						
Pigeye Whaler	0	0		1	2.3	0.06 (0.06)	0	0		0	0		1	2.4	0.06 (0.06)					
Sandbar Whaler	0	0		0	0		1	1.6	0.06 (0.06)	0	0		1	2.4	0.06 (0.06)					
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0						
Silky Whaler	0	0		0	0		1	1.6	0.06 (0.06)	0	0		0	0						
Silver Tip Whaler	0	0		0	0		0	0		0	0		0	0						
Tiger Shark	27	51.9	1.5 (0.26)	20	45.5	1.11 (0.28)	24	38.1	1.33 (0.37)	17	47.2	0.94 (0.29)	22	53.7	1.22 (0.3)					
White Shark	0	0		0	0		1	1.6	0.06 (0.06)	1	2.8	0.06 (0.06)	0	0						
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Graceful Whaler	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Unidentified Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			1	1.6		0.06 (0.06)	0	0			0	0		
Unidentified Hammerhead Shark '	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Unidentified Wobbegong *	0	0			0	0			0	0			0	0			0	0		
Unidentified Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			1	1.6		0.06 (0.06)	0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
Shovelnosed Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar Fish	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Stingaree	0	0			0	0			0	0			0	0			0	0		
Unidentified Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Groper , Qld	0	0			0	0			0	0			0	0			0	0		
Mackeral	0	0			0	0			0	0			0	0			0	0		
Marlin	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			1	2.3		0.06 (0.06)	0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Wahoo	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	1	1.9	0.06 (0.06)		0	0			1	1.6		0.06 (0.06)	0	0			0	0		
Common Dolphin	0	0			0	0			0	0			0	0			0	0		
Unidentified Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	2	3.8	0.11 (0.08)		1	2.3		0.06 (0.06)	0	0			0	0			0	0		
Loggerhead Turtle	19	36.5	1.06 (0.49)		15	34.1		0.78 (0.22)	0.06 (0.06)	23	36.5	1.22 (0.48)	0.06 (0.06)	10	27.8	0.56 (0.18)	12	29.3	0.67 (0.23)	
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	52				44				63				36				41			

RAINBOW SCP catch per gear unit

TAXA	RAINBOW BEACH																			
	DRUMLINE 11 (2001-2018)			DRUMLINE 12 (2001-2018)			NET 1 (2001-2018)			NET 2 (2001-2018)			NET 3 (2001-2018)							
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Bull Whaler	1	5.3	0.06 (0.06)	3	6.4	0.17 (0.12)	21	10.2	1.17 (0.35)	15	5.5	0.83 (0.32)	17	7.5	0.94 (0.25)					
Common Blacktip Whaler	0	0		0	0		0	0		0	0		0	0						
Dusky Whaler	1	5.3	0.06 (0.06)	0	0		11	5.4	0.61 (0.2)	14	5.1	0.78 (0.25)	18	7.9	1 (0.23)					
Great Hammerhead	0	0		0	0		19	9.3	1.06 (0.3)	15	5.5	0.83 (0.25)	15	6.6	0.83 (0.25)					
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0						
Long Nose Whaler	0	0		2	4.3	0.11 (0.08)	41	20	2.28 (0.45)	62	22.6	3.44 (0.71)	53	23.3	2.94 (0.69)					
Mako	0	0		0	0		2	1	0.11 (0.08)	3	1.1	0.17 (0.09)	1	0.4	0.06 (0.06)					
Pigeye Whaler	0	0		0	0		2	1	0.11 (0.08)	2	0.7	0.11 (0.08)	1	0.4	0.06 (0.06)					
Sandbar Whaler	0	0		0	0		2	1	0.11 (0.11)	2	0.7	0.11 (0.08)	0	0						
Sharptooth Shark	0	0		0	0		2	1	0.11 (0.08)	3	1.1	0.17 (0.09)	1	0.4	0.06 (0.06)					
Silky Whaler	0	0		0	0		0	0		0	0		0	0						
Silver Tip Whaler	0	0		0	0		0	0		0	0		0	0						
Tiger Shark	9	47.4	0.5 (0.22)	22	46.8	1.22 (0.41)	7	3.4	0.39 (0.14)	9	3.3	0.5 (0.19)	4	1.8	0.22 (0.1)					
White Shark	1	5.3	0.06 (0.06)	1	2.1	0.06 (0.06)	1	0.5	0.06 (0.06)	0	0		2	0.9	0.11 (0.08)					
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	1	5.3		0.06 (0.06)	1	2.1		0.06 (0.06)	13	6.3		0.72 (0.29)	14	5.1	0.06 (0.06)	0.72 (0.31)	11	4.8		0.61 (0.24)
Graceful Whaler	0	0			0	0			1	0.5		0.06 (0.06)	0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			1	0.4		0.06 (0.06)	0	0		
Unidentified Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			14	6.8		0.78 (0.21)	16	5.8	0.06 (0.06)	0.83 (0.35)	11	4.8		0.61 (0.26)
Unidentified Hammerhead Shark *	0	0			0	0			5	2.4		0.28 (0.16)	4	1.5		0.22 (0.1)	5	2.2		0.28 (0.11)
Grey Nurse Shark	0	0			1	2.1		0.06 (0.06)	1	0.5		0.06 (0.06)	6	2.2	0.17 (0.09)	0.17 (0.09)	1	0.4		0.06 (0.06)
Zebra Shark	0	0			0	0			3	1.5	0.11 (0.08)	0.06 (0.06)	2	0.7	0.11 (0.08)		4	1.8	0.11 (0.08)	0.11 (0.11)
Unidentified Wobbegong *	0	0			0	0			0	0			0	0			0	0		
Unidentified Shark	0	0			0	0			0	0			1	0.4		0.06 (0.06)	0	0		
Manta Ray	0	0			0	0			4	2	0.17 (0.12)	0.06 (0.06)	4	1.5	0.22 (0.1)		7	3.1	0.28 (0.11)	0.11 (0.08)
Devilray *	0	0			0	0			4	2	0.22 (0.22)		3	1.1	0.11 (0.08)	0.06 (0.06)	7	3.1	0.17 (0.12)	0.22 (0.13)
Cownose Ray	0	0			0	0			7	3.4	0.06 (0.06)	0.33 (0.28)	3	1.1	0.17 (0.12)		4	1.8	0.06 (0.06)	0.17 (0.09)
Eagle Ray *	0	0			0	0			2	1	0.06 (0.06)	0.06 (0.06)	7	2.6	0.22 (0.1)	0.17 (0.09)	4	1.8	0.11 (0.08)	0.11 (0.08)
Shovel-nosed Ray *	0	0			0	0			1	0.5		0.06 (0.06)	3	1.1	0.17 (0.12)		0	0		
White-Spotted Guitar Fish	0	0			0	0			0	0			0	0			1	0.4		0.06 (0.06)
Bull Ray	0	0			0	0			0	0			1	0.4	0.06 (0.06)		3	1.3	0.11 (0.08)	0.06 (0.06)
Stingaree	0	0			0	0			1	0.5	0.06 (0.06)		0	0			1	0.4		0.06 (0.06)
Unidentified Ray	0	0			0	0			1	0.5		0.06 (0.06)	0	0			0	0		
Teleosts																				
Groper , Qld	0	0			0	0			0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			1	0.4		0.06 (0.06)	0	0		
Marlin	0	0			0	0			3	1.5		0.17 (0.09)	1	0.4		0.06 (0.06)	2	0.9		0.11 (0.08)
Queen Fish	0	0			0	0			1	0.5		0.06 (0.06)	0	0			0	0		
Snapper	0	0			0	0			0	0			1	0.4		0.06 (0.06)	0	0		
Tuna	0	0			0	0			13	6.3	0.06 (0.06)	0.67 (0.3)	50	18.2		2.78 (0.64)	26	11.5		1.44 (0.41)
Wahoo	0	0			0	0			1	0.5		0.06 (0.06)	1	0.4		0.06 (0.06)	0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			3	1.5	0.17 (0.09)		2	0.7	0.11 (0.08)		2	0.9	0.11 (0.08)	
Australian Hb Dolphin	0	0			0	0			2	1		0.11 (0.08)	4	1.5	0.06 (0.06)	0.17 (0.12)	5	2.2		0.28 (0.19)
Bottlenose Dolphin	1	5.3	0.06 (0.06)		0	0			2	1		0.11 (0.08)	1	0.4		0.06 (0.06)	2	0.9		0.11 (0.08)
Common Dolphin	0	0			0	0			4	2		0.22 (0.1)	7	2.6		0.39 (0.16)	6	2.6		0.33 (0.18)
Unidentified Dolphin	0	0			0	0			1	0.5		0.06 (0.06)	0	0			2	0.9		0.11 (0.08)
Dugong	0	0			0	0			0	0			2	0.7		0.11 (0.08)	2	0.9		0.11 (0.08)
Marine Turtles																				
Green Turtle	0	0			0	0			3	1.5	0.17 (0.09)		2	0.7	0.11 (0.08)		1	0.4		0.06 (0.06)
Leatherback Turtle	0	0			0	0			0	0			1	0.4	0.06 (0.06)		0	0		
Loggerhead Turtle	5	26.3	0.28 (0.14)		17	36.2	0.83 (0.45)	0.11 (0.08)	7	3.4	0.33 (0.16)	0.06 (0.06)	11	4	0.61 (0.16)		7	3.1	0.33 (0.18)	0.06 (0.06)
Unidentified Turtle	0	0			0	0			0	0			0	0			1	0.4		0.06 (0.06)
TOTAL CATCH	19				47				205				274				227			

SUNSHINE COAST SCP catch per gear unit

TAXA	DRUMLINE 1 (2001-2018)						DRUMLINE 2 (2001-2018)				NOOSA BEACH DRUMLINE 3 (2001-2018)				NET 1 (2001-2018)				NET 2 (2001-2018)					
	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)					
Target species																								
Big Nose Whaler	0	0			0	0			0	0			0	0			0	0			0	0		
Bull Whaler	2	5.6	0.11 (0.08)		0	0			2	5.6	0.11 (0.08)		33	10.2	1.83 (0.37)		13	8.2	0.72 (0.23)					
Dusky Whaler	1	2.8	0.06 (0.06)		1	4.3	0.06 (0.06)		0	0			1	0.3	0.06 (0.06)		5	3.2	0.28 (0.14)					
Great Hammerhead	0	0			0	0			0	0			37	11.4	2.06 (0.61)		12	7.6	0.67 (0.18)					
Grey Reef Whaler	0	0			0	0			0	0			7	2.2	0.39 (0.18)		3	1.9	0.17 (0.12)					
Long Nose Whaler	4	11.1	0.22 (0.1)		1	4.3	0.06 (0.06)		0	0			77	23.7	4.28 (0.94)		46	29.1	2.56 (0.67)					
Mako	1	2.8	0.06 (0.06)		1	4.3	0.06 (0.06)		0	0			0	0			0	0						
Pigeye Whaler	0	0			0	0			0	0			2	0.6	0.11 (0.08)		1	0.6	0.06 (0.06)					
Sandbar Whaler	1	2.8	0.06 (0.06)		0	0			0	0			1	0.3	0.06 (0.06)		1	0.6	0.06 (0.06)					
Sharptooth Shark	0	0			0	0			0	0			0	0			0	0						
Silky Whaler	1	2.8	0.06 (0.06)		0	0			1	2.8	0.06 (0.06)		2	0.6	0.11 (0.11)		0	0						
Tiger Shark	26	72.2	1.44 (0.39)		18	78.3	1 (0.21)		30	83.3	1.67 (0.27)		3	0.9	0.17 (0.09)		3	1.9	0.17 (0.09)					
White Shark	0	0			0	0			2	5.6	0.11 (0.08)		0	0			0	0						
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																								
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			1	0.3	0.06 (0.06)		0	0			0	0		
Weasel Shark	0	0			0	0			0	0			3	0.9	0.17 (0.12)		0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			4	1.2	0.22 (0.13)		7	4.4	0.06 (0.06)		0.33 (0.2)			
Hammerhead Shark *	0	0			0	0			0	0			18	5.5	1 (0.32)		15	9.5	0.83 (0.4)		0.06 (0.06)			
Whale Shark	0	0			0	0			0	0			0	0			1	0.6	0.06 (0.06)		0.06 (0.06)			
Grey Nurse Shark	0	0			0	0			0	0			1	0.3	0.06 (0.06)		2	1.3	0.06 (0.06)		0.06 (0.06)			
Tawny Shark	0	0			0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			2	0.6	0.11 (0.08)		2	1.3	0.11 (0.08)					
Port Jackson Shark	0	0			0	0			0	0			1	0.3	0.06 (0.06)		0	0			0	0		
Unknown Shark	0	0			0	0			0	0			1	0.3	0.06 (0.06)		0	0			0	0		
Manta Ray	0	0			1	4.3	0.06 (0.06)		0	0			29	8.9	0.22 (0.22)	1.39 (0.55)	6	3.8	0.22 (0.13)		0.11 (0.08)			
Devilray *	0	0			0	0			0	0			17	5.2	0.11 (0.08)	0.83 (0.35)	4	2.5	0.22 (0.13)		0.22 (0.13)			
Cownose Ray	0	0			0	0			0	0			5	1.5	0.22 (0.13)	0.06 (0.06)	2	1.3	0.11 (0.11)					
Eagle Ray *	0	0			0	0			0	0			11	3.4	0.39 (0.14)	0.22 (0.1)	8	5.1	0.39 (0.23)		0.06 (0.06)			
White-Spotted Eagle Ray	0	0			0	0			0	0			1	0.3	0.06 (0.06)		0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			1	0.6	0.06 (0.06)		0.06 (0.06)			
Shovel-nosed Ray *	0	0			0	0			0	0			9	2.8	0.33 (0.16)	0.17 (0.09)	5	3.2	0.17 (0.09)		0.11 (0.08)			
Bull Ray	0	0			0	0			0	0			1	0.3	0.06 (0.06)		0	0			0	0		
Ray	0	0			0	0			0	0			16	4.9	0.44 (0.28)	0.44 (0.27)	2	1.3	0.11 (0.08)		0.11 (0.08)			
Teleosts																								
Black Kingfish Cobia	0	0			0	0			0	0			1	0.3	0.06 (0.06)		0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			1	0.3	0.06 (0.06)		0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			1	2.8	0.06 (0.06)		14	4.3	0.17 (0.12)	0.61 (0.23)	5	3.2	0.11 (0.08)		0.28 (0.11)			
Marine Mammals																								
Humpback Whale	0	0			0	0			0	0			1	0.3	0.06 (0.06)		1	0.6	0.06 (0.06)		0.06 (0.06)			
Australian Hb Dolphin	0	0			0	0			0	0			0	0			1	0.6	0.06 (0.06)		0.06 (0.06)			
Bottlenose Dolphin	0	0			0	0			0	0			4	1.2	0.22 (0.13)		2	1.3	0.11 (0.08)		0.11 (0.08)			
Common Dolphin	0	0			0	0			0	0			12	3.7	0.06 (0.06)	0.61 (0.18)	5	3.2	0.28 (0.11)		0.28 (0.11)			
Spinner Dolphin	0	0			0	0			0	0			1	0.3	0.06 (0.06)	0.06 (0.06)	1	0.6	0.06 (0.06)		0.06 (0.06)			
Dolphin	0	0			0	0			0	0			1	0.3	0.06 (0.06)	0.06 (0.06)	1	0.6	0.06 (0.06)		0.06 (0.06)			
Dugong	0	0			0	0			0	0			2	0.6	0.11 (0.08)		0	0			0	0		
Marine Turtles																								
Green Turtle	0	0			0	0			0	0			2	0.6	0.11 (0.11)		0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			1	0.3	0.06 (0.06)		0	0			0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			1	4.3	0.06 (0.06)		0	0			0	0			3	1.9	0.17 (0.09)		0.17 (0.09)			
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0			0	0		
Birds																								
Unidentified Turtle	0	0			0	0			0	0			2	0.6	0.11 (0.11)		0	0			0	0		
TOTAL CATCH	36				23				36				325				158							

SUNSHINE COAST SCP catch per gear unit

TAXA	SUNSHINE BEACH												SUNRISE BEACH							
	DRUMLINE 4 (2001-2018)				DRUMLINE 5 (2001-2018)				DRUMLINE 6 (2001-2018)				DRUMLINE 7 (2001-2018)		DRUMLINE 8 (2001-2018)					
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Big Nose Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Bull Whaler	1	7.7	0.06 (0.06)	1	8.3	0.06 (0.06)	0	0		0	0		1	12.5	0.06 (0.06)	1	11.1	0.06 (0.06)		
Dusky Whaler	2	15.4	0.11 (0.08)	1	8.3	0.06 (0.06)	0	0		0	0		0	0		0	0			
Great Hammerhead	0	0		0	0		0	0		0	0		0	0		0	0			
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Long Nose Whaler	0	0		0	0		1	14.3	0.06 (0.06)	0	0		0	0		0	0			
Mako	1	7.7	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0			
Pigeye Whaler	0	0		0	0		0	0		0	0		1	12.5	0.06 (0.06)	0	0			
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Silky Whaler	0	0		0	0		0	0		0	0		1	12.5	0.06 (0.06)	0	0			
Tiger Shark	9	69.2	0.5 (0.19)	7	58.3	0.39 (0.14)	6	85.7	0.33 (0.11)	5	62.5	0.28 (0.11)	8	88.9	0.44 (0.15)	0	0			
White Shark	0	0		1	8.3	0.06 (0.06)	0	0		0	0		0	0		0	0			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			1	8.3	0.06 (0.06)		0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovel-nosed Ray *	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			1	8.3	0.06 (0.06)		0	0			0	0			0	0		
Common Dolphin	0	0			0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
Birds																				
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	13				12				7				8				9			

SUNSHINE COAST SCP catch per gear unit

TAXA	SUNRISE BEACH				NTH PEREGIAN / CASTAWAYS BEACH								GLEN EDEN / MARCUS BEACH							
	DRUMLINE 9 (2001-2018)				DRUMLINE 10 (2001-2018)				DRUMLINE 11 (2001-2018)				DRUMLINE 12 (2001-2018)				DRUMLINE 13 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	
Big Nose Whaler	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	1	14.3	0.06 (0.06)		1	11.1	0.06 (0.06)		0	0			0	0			0	0		
Dusky Whaler	1	14.3	0.06 (0.06)		1	11.1	0.06 (0.06)		1	9.1	0.06 (0.06)		0	0			0	0		
Great Hammerhead	0	0			0	0			0	0			0	0			0	0		
Grey Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Long Nose Whaler	0	0			0	0			0	0			1	11.1	0.06 (0.06)		0	0		
Mako	1	14.3	0.06 (0.06)		0	0			0	0			1	11.1	0.06 (0.06)		0	0		
Pigeye Whaler	0	0			0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			0	0			0	0			0	0		
Silky Whaler	0	0			0	0			0	0			0	0			1	16.7	0.06 (0.06)	
Tiger Shark	3	42.9	0.17 (0.09)		6	66.7	0.33 (0.18)		8	72.7	0.44 (0.15)		5	55.6	0.28 (0.14)		4	66.7	0.22 (0.13)	
White Shark	0	0			0	0			0	0			0	0			0	0		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovel-nosed Ray *	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			1	11.1	0.06 (0.06)		0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	0	0			0	0			1	9.1	0.06 (0.06)		0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			1	11.1	0.06 (0.06)		0	0			1	11.1	0.06 (0.06)		0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	1	14.3	0.06 (0.06)		0	0			1	9.1	0.06 (0.06)		0	0			1	16.7	0.06 (0.06)	
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
Birds																				
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	7				9				11				9				6			

SUNSHINE COAST SCP catch per gear unit

TAXA	GLEN EDEN / CASTAWAYS BEACH								PEREGIAN BEACH							
	DRUMLINE 14 (2001-2018)			DRUMLINE 15 (2001-2018)			DRUMLINE 16 (2001-2018)			DRUMLINE 17 (2001-2018)			DRUMLINE 18 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	
Big Nose Whaler	0	0		0	0		0	0		0	0		0	0		
Bull Whaler	0	0		0	0		0	0		0	0		2	40	0.11 (0.08)	
Dusky Whaler	1	14.3	0.06 (0.06)	0	0		1	25	0.06 (0.06)	1	25	0.06 (0.06)	1	20	0.06 (0.06)	
Great Hammerhead	0	0		0	0		0	0		0	0		0	0		
Grey Reef Whaler	0	0		0	0		0	0		1	25	0.06 (0.06)	0	0		
Long Nose Whaler	0	0		1	16.7	0.06 (0.06)	1	25	0.06 (0.06)	0	0		0	0		
Mako	0	0		0	0		0	0		0	0		0	0		
Pigeye Whaler	0	0		0	0		0	0		0	0		0	0		
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		
Silky Whaler	0	0		1	16.7	0.06 (0.06)	1	25	0.06 (0.06)	0	0		0	0		
Tiger Shark	4	57.1	0.22 (0.1)	4	66.7	0.22 (0.1)	1	25	0.06 (0.06)	2	50	0.11 (0.08)	2	40	0.11 (0.08)	
White Shark	0	0		0	0		0	0		0	0		0	0		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																
Blacktip Reef Whaler	0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0		
Whale Shark	0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0		
Manta Ray	1	14.3	0.06 (0.06)		0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0		
Shovel-nosed Ray *	0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0		
Teleosts																
Black Kingfish Cobia	0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0		
Sweetlip	1	14.3		0.06 (0.06)	0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0		
Marine Mammals																
Humpback Whale	0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0		
Common Dolphin	0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0		
Marine Turtles																
Green Turtle	0	0			0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0		
Unidentified Turtle	0	0			0	0			0	0			0	0		
Birds																
Unidentified Turtle	0	0			0	0			0	0			0	0		
TOTAL CATCH	7				6				4				4			

SUNSHINE COAST SCP catch per gear unit

TAXA	COOLUM BEACH NET 3 (2002-2018)				YAROOMBA BEACH															
					DRUMLINE 19 (2001-2018)				DRUMLINE 20 (2001-2018)				DRUMLINE 21 (2001-2018)				DRUMLINE 22 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	
Big Nose Whaler	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	3	2.4	0.18 (0.1)		0	0			0	0			0	0			0	0		
Dusky Whaler	2	1.6	0.12 (0.08)		0	0			0	0			0	0			0	0		
Great Hammerhead	9	7.1	0.53 (0.21)		0	0			0	0			0	0			0	0		
Grey Reef Whaler	4	3.1	0.24 (0.18)		0	0			1	12.5	0.06 (0.06)		1	25	0.06 (0.06)		0	0		
Long Nose Whaler	48	37.8	2.82 (0.5)		1	16.7	0.06 (0.06)		1	12.5	0.06 (0.06)		0	0			2	33.3	0.11 (0.11)	
Mako	2	1.6	0.12 (0.08)		0	0			0	0			0	0			1	16.7	0.06 (0.06)	
Pigeye Whaler	0	0			0	0			0	0			0	0			0	0		
Sandbar Whaler	1	0.8	0.06 (0.06)		0	0			0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			0	0			0	0			0	0		
Silky Whaler	0	0			0	0			1	12.5	0.06 (0.06)		0	0			0	0		
Tiger Shark	1	0.8	0.06 (0.06)		2	33.3	0.11 (0.08)		2	25	0.11 (0.08)		3	75	0.17 (0.09)		3	50	0.17 (0.09)	
White Shark	1	0.8	0.06 (0.06)		0	0			0	0			0	0			0	0		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	2	1.6		0.12 (0.08)	0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	3	2.4		0.18 (0.13)	0	0			0	0			0	0			0	0		
Hammerhead Shark *	5	3.9		0.29 (0.14)	0	0			0	0			0	0			0	0		
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	2	1.6	0.06 (0.06)	0.06 (0.06)	0	0			1	12.5	0.06 (0.06)		0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	1	0.8		0.06 (0.06)	0	0			0	0			0	0			0	0		
Manta Ray	10	7.9	0.29 (0.19)	0.29 (0.14)	0	0			0	0			0	0			0	0		
Devilray *	1	0.8		0.06 (0.06)	0	0			0	0			0	0			0	0		
Cownose Ray	2	1.6		0.12 (0.12)	0	0			0	0			0	0			0	0		
Eagle Ray *	3	2.4	0.06 (0.06)	0.12 (0.08)	0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	1	0.8	0.06 (0.06)		0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovel-nosed Ray *	4	3.1	0.18 (0.1)	0.06 (0.06)	0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	4	3.1	0.18 (0.13)	0.06 (0.06)	0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	7	5.5	0.06 (0.06)	0.35 (0.15)	0	0			1	12.5		0.06 (0.06)	0	0			0	0		
Marine Mammals																				
Humpback Whale	2	1.6	0.12 (0.08)		0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	2	1.6		0.12 (0.12)	0	0			0	0			0	0			0	0		
Common Dolphin	0	0			0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	2	1.6		0.12 (0.12)	0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	2	1.6	0.06 (0.06)	0.06 (0.06)	0	0			0	0			0	0			0	0		
Hawksbill Turtle	2	1.6	0.06 (0.06)	0.06 (0.06)	0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			1	16.7	0.06 (0.06)		0	0			0	0			0	0		
Loggerhead Turtle	1	0.8		0.06 (0.06)	2	33.3	0.06 (0.06)	0.06 (0.06)	1	12.5	0.06 (0.06)		0	0			0	0		
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
Birds																				
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	127				6				8				4				6			

SUNSHINE COAST SCP catch per gear unit

TAXA	HYATT RESORT BEACH																MARCOOLA BEACH			
	DRUMLINE 23 (2001-2018)				DRUMLINE 24 (2001-2018)				DRUMLINE 25 (2001-2018)				DRUMLINE 26 (2001-2018)				NET 4 (2002-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Big Nose Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Bull Whaler	0	0		0	0		0	0		0	0		1	16.7	0.06 (0.06)	4	3.9	0.24 (0.14)		
Dusky Whaler	0	0		0	0		0	0		0	0		0	0		3	2.9	0.18 (0.13)		
Great Hammerhead	0	0		0	0		0	0		0	0		0	0		2	2	0.12 (0.08)		
Grey Reef Whaler	0	0		0	0		0	0		0	0		1	16.7	0.06 (0.06)	1	1	0.06 (0.06)		
Long Nose Whaler	0	0		0	0		0	0		0	0		1	16.7	0.06 (0.06)	30	29.4	1.76 (0.33)		
Mako	0	0		0	0		0	0		0	0		0	0		0	0			
Pigeye Whaler	0	0		0	0		0	0		0	0		0	0		3	2.9	0.18 (0.13)		
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		1	1	0.06 (0.06)		
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		2	2	0.12 (0.08)		
Silky Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Tiger Shark	2	100	0.11 (0.08)	4	100	0.22 (0.13)	3	75	0.17 (0.12)	2	33.3	0.11 (0.08)	2	33.3	0.11 (0.08)	0	0			
White Shark	0	0		0	0		1	25	0.06 (0.06)	1	16.7	0.06 (0.06)	1	16.7	0.06 (0.06)	1	1	0.06 (0.06)		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			1	1		0.06 (0.06)
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			1	1		0.06 (0.06)
Hammerhead Shark *	0	0			0	0			0	0			0	0			7	6.9		0.41 (0.17)
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			3	2.9	0.06 (0.06)	0.12 (0.08)
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			8	7.8	0.06 (0.06)	0.41 (0.35)
Devilray *	0	0			0	0			0	0			0	0			1	1		0.06 (0.06)
Cownose Ray	0	0			0	0			0	0			0	0			2	2		0.12 (0.12)
Eagle Ray *	0	0			0	0			0	0			0	0			1	1	0.06 (0.06)	
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			1	1		0.06 (0.06)
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovel-nosed Ray *	0	0			0	0			0	0			0	0			1	1		0.06 (0.06)
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			7	6.9	0.18 (0.13)	0.24 (0.18)
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			1	1		0.06 (0.06)
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			1	1		0.06 (0.06)
Snapper	0	0			0	0			0	0			0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			13	12.7		0.76 (0.36)
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			1	1		0.06 (0.06)
Common Dolphin	0	0			0	0			0	0			0	0			2	2		0.12 (0.08)
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			4	3.9	0.24 (0.11)	
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
Birds																				
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	2				4				4				6				102			

SUNSHINE COAST SCP catch per gear unit

TAXA	SURFAIR RESORT																MUDJIMBA BEACH			
	DRUMLINE 27 (2001-2018)				BEACH DRUMLINE 28 (2001-2018)				DRUMLINE 29 (2001-2018)				DRUMLINE 30 (2001-2018)				DRUMLINE 31 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Big Nose Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Bull Whaler	0	0		1	33.3	0.06 (0.06)	0	0		0	0		0	0		0	0			
Dusky Whaler	0	0		0	0		0	0		0	0		1	33.3	0.06 (0.06)	0	0			
Great Hammerhead	0	0		0	0		0	0		0	0		0	0		0	0			
Grey Reef Whaler	0	0		0	0		0	0		0	0		1	33.3	0.06 (0.06)	0	0			
Long Nose Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Mako	0	0		0	0		0	0		0	0		0	0		0	0			
Pigeye Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Silky Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Tiger Shark	5	71.4	0.28 (0.14)	2	66.7	0.11 (0.08)	1	50	0.06 (0.06)	1	33.3	0.06 (0.06)	2	66.7	0.11 (0.11)	0	0			
White Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovel-nosed Ray *	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			0	0		
Cod	2	28.6	0.11 (0.08)		0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	0	0			0	0			1	50	0.06 (0.06)		0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			1	33.3	0.06 (0.06)	
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
Birds																				
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	7				3				2				3				3			

SUNSHINE COAST SCP catch per gear unit

TAXA	MUDJIMBA BEACH												TWIN WATERS RESORT BEACH								
	DRUMLINE 32 (2001-2018)				DRUMLINE 33 (2001-2018)				DRUMLINE 34 (2001-2018)				DRUMLINE 35 (2001-2018)				DRUMLINE 36 (2001-2018)				
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)			
Big Nose Whaler	0	0		0	0		0	0		0	0		0	0		0	0				
Bull Whaler	0	0		0	0		0	0		0	0		0	0		0	0				
Dusky Whaler	0	0		0	0		0	0		0	0		0	0		0	0				
Great Hammerhead	0	0		0	0		0	0		0	0		0	0		0	0				
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0		0	0				
Long Nose Whaler	0	0		0	0		0	0		0	0		1	50	0.06 (0.06)	0	0				
Mako	0	0		0	0		0	0		0	0		0	0		0	0				
Pigeye Whaler	1	100	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0				
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		0	0				
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		0	0				
Silky Whaler	0	0		0	0		0	0		0	0		0	0		0	0				
Tiger Shark	0	0		2	66.7	0.11 (0.08)	0	0		2	100	0.11 (0.08)	0	0		2	66.7	0.11 (0.08)			
White Shark	0	0		0	0		0	0		0	0		0	0		0	0				
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	
Sharks & Rays																					
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0			
Fossil Shark	0	0			0	0			0	0			0	0			0	0			
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0			
Weasel Shark	0	0			0	0			0	0			0	0			0	0			
Whaler	0	0			0	0			0	0			0	0			0	0			
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0			
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0			
Whale Shark	0	0			0	0			0	0			0	0			0	0			
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0			
Tawny Shark	0	0			0	0			0	0			0	0			0	0			
Zebra Shark	0	0			0	0			0	0			0	0			0	0			
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0			
Unknown Shark	0	0			0	0			0	0			0	0			0	0			
Manta Ray	0	0			0	0			0	0			0	0			0	0			
Devilray *	0	0			0	0			0	0			0	0			0	0			
Cownose Ray	0	0			0	0			0	0			0	0			0	0			
Eagle Ray *	0	0			0	0			0	0			0	0			0	0			
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0			
Shark Ray	0	0			0	0			0	0			0	0			0	0			
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0			
Shovel-nosed Ray *	0	0			0	0			0	0			0	0			0	0			
Bull Ray	0	0			0	0			0	0			0	0			0	0			
Ray	0	0			0	0			0	0			0	0			0	0			
Teleosts																					
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0			
Bonita	0	0			0	0			0	0			0	0			0	0			
Cod	0	0			0	0			0	0			0	0			0	0			
Giant Trevally	0	0			0	0			0	0			0	0			0	0			
Jewfish	0	0			0	0			0	0			0	0			0	0			
Mackerel	0	0			0	0			0	0			0	0			0	0			
Queen Fish	0	0			0	0			0	0			0	0			0	0			
Salmon	0	0			0	0			0	0			0	0			0	0			
Snapper	0	0			0	0			0	0			0	0			0	0			
Sweetlip	0	0			0	0			0	0			0	0			0	0			
Tuna	0	0			0	0			0	0			0	0			0	0			
Marine Mammals																					
Humpback Whale	0	0			0	0			0	0			1	50	0.06 (0.06)		0	0			
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0			
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0			
Common Dolphin	0	0			0	0			0	0			0	0			0	0			
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0			
Dolphin	0	0			0	0			0	0			0	0			0	0			
Dugong	0	0			0	0			0	0			0	0			0	0			
Marine Turtles																					
Green Turtle	0	0			0	0			0	0			0	0			0	0			
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0			
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0			
Loggerhead Turtle	0	0			1	33.3		0.06 (0.06)	0	0			0	0			1	33.3		0.06 (0.06)	
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0			
Birds																					
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0			
TOTAL CATCH	1				3				2				2				3				

SUNSHINE COAST SCP catch per gear unit

TAXA	TWIN WATERS RESORT BEACH								MAROOCHYDORE BEACH								ALEXANDRA HEADLAND BEACH			
	DRUMLINE 37 (2001-2018)				DRUMLINE 38 (2001-2018)				NET 5 (2002-2018)				NET 6 (2002-2018)				NET 7 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. p.a. (SE)	
Big Nose Whaler	0	0		0	0			0	0			0	0			0	0			
Bull Whaler	0	0		0	0			22	26.2	1.29 (0.36)		11	15.9	0.65 (0.23)		4	6.6	0.22 (0.13)		
Dusky Whaler	1	25	0.06 (0.06)	0	0			0	0			2	2.9	0.12 (0.08)		1	1.6	0.06 (0.06)		
Great Hammerhead	0	0		0	0			4	4.8	0.24 (0.11)		3	4.3	0.18 (0.1)		4	6.6	0.22 (0.1)		
Grey Reef Whaler	0	0		0	0			1	1.2	0.06 (0.06)		2	2.9	0.12 (0.12)		0	0			
Long Nose Whaler	0	0		1	25	0.06 (0.06)		13	15.5	0.76 (0.25)		11	15.9	0.65 (0.21)		9	14.8	0.5 (0.2)		
Mako	0	0		0	0			0	0			0	0			0	0			
Pigeye Whaler	0	0		0	0			0	0			0	0			0	0			
Sandbar Whaler	0	0		0	0			1	1.2	0.06 (0.06)		0	0			0	0			
Sharptooth Shark	0	0		0	0			0	0			0	0			1	1.6	0.06 (0.06)		
Silky Whaler	0	0		0	0			0	0			0	0			0	0			
Tiger Shark	2	50	0.11 (0.08)	2	50	0.11 (0.08)		2	2.4	0.12 (0.08)		2	2.9	0.12 (0.08)		0	0			
White Shark	0	0		0	0			1	1.2	0.06 (0.06)		0	0			0	0			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			1	1.4		0.06 (0.06)	1	1.6		0.06 (0.06)
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			1	1.2		0.06 (0.06)	5	7.2		0.29 (0.14)	3	4.9		0.17 (0.09)
Hammerhead Shark *	0	0			0	0			2	2.4	0.06 (0.06)	0.06 (0.06)	1	1.4		0.06 (0.06)	1	1.6		0.06 (0.06)
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			1	25		0.06 (0.06)	0	0			1	1.4	0.06 (0.06)		0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			2	2.4		0.12 (0.08)	6	8.7	0.18 (0.13)	0.18 (0.1)	2	3.3		0.11 (0.08)
Devilray *	0	0			0	0			1	1.2		0.06 (0.06)	1	1.4		0.06 (0.06)	1	1.6		0.06 (0.06)
Cownose Ray	0	0			0	0			4	4.8	0.18 (0.1)	0.06 (0.06)	3	4.3	0.06 (0.06)	0.12 (0.08)	8	13.1	0.11 (0.08)	0.33 (0.33)
Eagle Ray *	0	0			0	0			8	9.5	0.41 (0.19)	0.06 (0.06)	5	7.2	0.18 (0.1)	0.12 (0.08)	7	11.5	0.33 (0.11)	0.06 (0.06)
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovel-nosed Ray *	0	0			0	0			1	1.2	0.06 (0.06)		1	1.4		0.06 (0.06)	0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			4	4.8	0.12 (0.12)	0.12 (0.08)	3	4.3	0.12 (0.08)	0.06 (0.06)	8	13.1	0.17 (0.09)	0.28 (0.23)
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			3	4.9		0.17 (0.12)
Mackerel	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			1	1.2		0.06 (0.06)	0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			1	1.2	0.06 (0.06)		1	1.4		0.06 (0.06)	4	6.6		0.22 (0.13)
Marine Mammals																				
Humpback Whale	0	0			0	0			1	1.2	0.06 (0.06)		0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			4	4.8		0.24 (0.14)	1	1.4		0.06 (0.06)	0	0		
Common Dolphin	0	0			0	0			3	3.6	0.06 (0.06)	0.12 (0.08)	8	11.6	0.06 (0.06)	0.41 (0.17)	1	1.6		0.06 (0.06)
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	1	25	0.06 (0.06)		0	0			1	1.2		0.06 (0.06)	0	0			1	1.6		0.06 (0.06)
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			2	2.4	0.06 (0.06)	0.06 (0.06)	0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			1	1.6		0.06 (0.06)
Leatherback Turtle	0	0			0	0			1	1.2	0.06 (0.06)		0	0			0	0		
Loggerhead Turtle	0	0			0	0			2	2.4	0.12 (0.08)		1	1.4	0.06 (0.06)		1	1.6		0.06 (0.06)
Unidentified Turtle	0	0			0	0			1	1.2		0.06 (0.06)	0	0			0	0		
Birds																				
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	4			4				84					69				61			

SUNSHINE COAST SCP catch per gear unit

TAXA	ALEXANDRA HEADLAND BEACH NET 8(2002-2018)				MOOLOOLABA BEACH NET 9 (2002-2018)				DRUMLINE 39 (2001-2018)			POINT CARTWRIGHT BEACH DRUMLINE 40 (2001-2018)			DRUMLINE 41 (2002-2018)		
	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)
Target species																	
Big Nose Whaler	0	0			0	0			0	0		0	0		0	0	
Bull Whaler	4	5.3	0.24 (0.14)		3	8.3	0.18 (0.13)		0	0		1	11.1	0.06 (0.06)	0	0	
Dusky Whaler	0	0			2	5.6	0.12 (0.12)		0	0		0	0		0	0	
Great Hammerhead	5	6.7	0.29 (0.14)		1	2.8	0.06 (0.06)		0	0		0	0		0	0	
Grey Reef Whaler	0	0			0	0			0	0		0	0		0	0	
Long Nose Whaler	15	20	0.88 (0.36)		7	19.4	0.41 (0.15)		2	28.6	0.11 (0.08)	0	0		0	0	
Mako	0	0			0	0			0	0		0	0		0	0	
Pigeye Whaler	0	0			0	0			0	0		0	0		0	0	
Sandbar Whaler	0	0			0	0			0	0		0	0		0	0	
Sharptooth Shark	0	0			0	0			0	0		0	0		0	0	
Silky Whaler	1	1.3	0.06 (0.06)		0	0			0	0		0	0		0	0	
Tiger Shark	0	0			0	0			5	71.4	0.28 (0.14)	7	77.8	0.39 (0.18)	1	100	0.06 (0.06)
White Shark	0	0			0	0			0	0		0	0		0	0	
Non-target species																	
Sharks & Rays																	
Blacktip Reef Whaler	0	0			0	0			0	0		0	0		0	0	
Fossil Shark	0	0			1	2.8	0.06 (0.06)		0	0		0	0		0	0	
Hardnose Whaler	0	0			0	0			0	0		0	0		0	0	
Weasel Shark	1	1.3	0.06 (0.06)		0	0			0	0		0	0		0	0	
Whaler	0	0			0	0			0	0		0	0		0	0	
Scalloped Hammerhead	3	4	0.18 (0.1)		0	0			0	0		0	0		0	0	
Hammerhead Shark *	3	4	0.18 (0.13)		1	2.8	0.06 (0.06)		0	0		0	0		0	0	
Whale Shark	0	0			0	0			0	0		0	0		0	0	
Grey Nurse Shark	4	5.3	0.24 (0.14)		0	0			0	0		0	0		0	0	
Tawny Shark	0	0			0	0			0	0		0	0		0	0	
Zebra Shark	0	0			0	0			0	0		0	0		0	0	
Port Jackson Shark	0	0			0	0			0	0		0	0		0	0	
Unknown Shark	0	0			0	0			0	0		0	0		0	0	
Manta Ray	6	8	0.12 (0.08)	0.24 (0.14)	1	2.8	0.06 (0.06)		0	0		0	0		0	0	
Devilray *	11	14.7	0.24 (0.18)	0.41 (0.24)	1	2.8	0.06 (0.06)		0	0		0	0		0	0	
Cownose Ray	5	6.7	0.06 (0.06)	0.24 (0.18)	3	8.3	0.12 (0.08)	0.06 (0.06)	0	0		0	0		0	0	
Eagle Ray *	2	2.7	0.12 (0.08)		2	5.6	0.12 (0.08)		0	0		0	0		0	0	
White-Spotted Eagle Ray	0	0			0	0			0	0		0	0		0	0	
Shark Ray	0	0			0	0			0	0		0	0		0	0	
White-Spotted Guitar	0	0			0	0			0	0		0	0		0	0	
Shovel nosed Ray *	0	0			0	0			0	0		0	0		0	0	
Bull Ray	0	0			0	0			0	0		0	0		0	0	
Ray	7	9.3	0.12 (0.08)	0.29 (0.21)	2	5.6	0.12 (0.12)		0	0		0	0		0	0	
Teleosts																	
Black Kingfish Cobia	0	0			0	0			0	0		0	0		0	0	
Bonita	0	0			0	0			0	0		0	0		0	0	
Cod	0	0			0	0			0	0		0	0		0	0	
Giant Trevally	0	0			0	0			0	0		0	0		0	0	
Jewfish	0	0			0	0			0	0		0	0		0	0	
Mackerel	0	0			0	0			0	0		0	0		0	0	
Queen Fish	0	0			0	0			0	0		0	0		0	0	
Salmon	0	0			0	0			0	0		0	0		0	0	
Snapper	0	0			0	0			0	0		0	0		0	0	
Sweetlip	0	0			0	0			0	0		0	0		0	0	
Tuna	2	2.7	0.12 (0.12)		0	0			0	0		0	0		0	0	
Marine Mammals																	
Humpback Whale	0	0			1	2.8	0.06 (0.06)		0	0		0	0		0	0	
Australian Hb Dolphin	2	2.7	0.12 (0.08)		0	0			0	0		0	0		0	0	
Bottlenose Dolphin	1	1.3	0.06 (0.06)		0	0			0	0		0	0		0	0	
Common Dolphin	1	1.3	0.06 (0.06)		2	5.6	0.12 (0.08)		0	0		0	0		0	0	
Spinner Dolphin	0	0			0	0			0	0		0	0		0	0	
Dolphin	0	0			1	2.8	0.06 (0.06)		0	0		0	0		0	0	
Dugong	1	1.3	0.06 (0.06)		1	2.8	0.06 (0.06)		0	0		0	0		0	0	
Marine Turtles																	
Green Turtle	1	1.3	0.06 (0.06)		0	0			0	0		0	0		0	0	
Hawksbill Turtle	0	0			4	11.1	0.12 (0.08)	0.12 (0.08)	0	0		1	11.1	0.06 (0.06)	0	0	
Leatherback Turtle	0	0			0	0			0	0		0	0		0	0	
Loggerhead Turtle	0	0			3	8.3	0.12 (0.08)	0.06 (0.06)	0	0		0	0		0	0	
Unidentified Turtle	0	0			0	0			0	0		0	0		0	0	
Birds																	
Unidentified Turtle	0	0			0	0			0	0		0	0		0	0	
TOTAL CATCH	75				36				7			9			1		

SUNSHINE COAST SCP catch per gear unit

TAXA	DRUMLINE 42 (2001-2018)						BUDDINA BEACH				DRUMLINE 45 (2001-2018)				DRUMLINE 46 (2001-2018)					
	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)				
Target species																				
Big Nose Whaler	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	0	0			0	0			1	14.3	0.06 (0.06)		0	0			0	0		
Dusky Whaler	0	0			0	0			0	0			0	0			0	0		
Great Hammerhead	0	0			0	0			0	0			1	20	0.06 (0.06)		0	0		
Grey Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Long Nose Whaler	0	0			0	0			1	14.3	0.06 (0.06)		0	0			0	0		
Mako	0	0			0	0			0	0			0	0			0	0		
Pigeye Whaler	1	11.1	0.06 (0.06)		0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			0	0			0	0			0	0		
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	5	55.6	0.28 (0.14)		5	71.4	0.28 (0.14)		4	57.1	0.22 (0.1)		3	60	0.17 (0.12)		10	90.9	0.56 (0.15)	
White Shark	0	0			0	0			0	0			0	0			0	0		
Non-target species																				
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovel nosed Ray *	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	0	0			1	14.3	0.06 (0.06)		0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			1	14.3	0.06 (0.06)		0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	3	33.3	0.17 (0.12)		1	14.3	0.06 (0.06)		0	0			1	20	0.06 (0.06)		1	9.1	0.06 (0.06)	
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
Birds																				
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	9				7				7				5				11			

SUNSHINE COAST SCP catch per gear unit

TAXA	BUDDINA BEACH				WURTULLA BEACH				CURRIMUNDI BEACH											
	DRUMLINE 47 (2001-2018)				NET 10 (2002-2018)				DRUMLINE 48 (2001-2018)				DRUMLINE 49 (2001-2018)				DRUMLINE 50 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	
Big Nose Whaler	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	0	0			3	2.8	0.18 (0.13)		2	50	0.11 (0.08)		0	0			1	7.7	0.06 (0.06)	
Dusky Whaler	0	0			0	0			0	0			0	0			0	0		
Great Hammerhead	0	0			4	3.7	0.24 (0.11)		0	0			0	0			0	0		
Grey Reef Whaler	0	0			3	2.8	0.18 (0.1)		0	0			0	0			0	0		
Long Nose Whaler	0	0			48	44.9	2.82 (1.05)		0	0			1	12.5	0.06 (0.06)		1	7.7	0.06 (0.06)	
Mako	0	0			0	0			0	0			0	0			0	0		
Pigeye Whaler	0	0			2	1.9	0.12 (0.08)		0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0		
Sharptooth Shark	0	0			2	1.9	0.12 (0.08)		0	0			0	0			0	0		
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	3	37.5	0.17 (0.17)		2	1.9	0.12 (0.08)		1	25	0.06 (0.06)		4	50	0.22 (0.13)		5	38.5	0.28 (0.14)	
White Shark	0	0			0	0			0	0			0	0			0	0		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			1	0.9		0.06 (0.06)	0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	1	12.5		0.06 (0.06)	0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			3	2.8		0.18 (0.18)	0	0			0	0			0	0		
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			1	0.9		0.06 (0.06)	0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			1	0.9		0.06 (0.06)	0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			2	1.9		0.06 (0.06)	0	0			0	0			0	0		
Devilray *	0	0			3	2.8		0.18 (0.13)	0	0			0	0			0	0		
Cownose Ray	0	0			3	2.8		0.06 (0.06)	0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovel nosed Ray *	0	0			1	0.9		0.06 (0.06)	0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			3	2.8		0.12 (0.12)	0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			2	1.9		0.12 (0.08)	0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			6	5.6		0.35 (0.19)	0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			3	2.8		0.18 (0.1)	0	0			0	0			0	0		
Common Dolphin	0	0			11	10.3		0.65 (0.23)	1	25	0.06 (0.06)		0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			1	0.9		0.06 (0.06)	0	0			0	0			0	0		
Loggerhead Turtle	4	50	0.22 (0.13)		2	1.9		0.06 (0.06)	0	0			3	37.5	0.17 (0.12)		4	30.8	0.22 (0.13)	
Unidentified Turtle	0	0			0	0			0	0			0	0			2	15.4	0.11 (0.08)	
Birds																				
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	8				107				4				8				13			

SUNSHINE COAST SCP catch per gear unit

TAXA	CURRIMUNDI BEACH						MOFFATT BEACH						COLOUNDRA BEACH			
	DRUMLINE 51 (2001-2018)			DRUMLINE 52 (2001-2018)			DRUMLINE 53 (2001-2018)			DRUMLINE 54 (2001-2018)			DRUMLINE 55 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	
Big Nose Whaler	0	0		0	0		0	0		0	0		0	0		
Bull Whaler	0	0		0	0		2	20	0.11 (0.08)	0	0		1	14.3	0.06 (0.06)	
Dusky Whaler	0	0		0	0		1	10	0.06 (0.06)	0	0		0	0		
Great Hammerhead	0	0		0	0		0	0		0	0		0	0		
Grey Reef Whaler	0	0		1	25	0.06 (0.06)	0	0		0	0		0	0		
Long Nose Whaler	0	0		2	50	0.11 (0.08)	2	20	0.11 (0.08)	0	0		1	14.3	0.06 (0.06)	
Mako	0	0		0	0		0	0		1	20	0.06 (0.06)	0	0		
Pigeye Whaler	0	0		0	0		0	0		0	0		0	0		
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		
Silky Whaler	0	0		0	0		1	10	0.06 (0.06)	0	0		0	0		
Tiger Shark	4	44.4	0.22 (0.13)	0	0		3	30	0.17 (0.12)	1	20	0.06 (0.06)	3	42.9	0.17 (0.09)	
White Shark	0	0		0	0		0	0		1	20	0.06 (0.06)	1	14.3	0.06 (0.06)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																
Blacktip Reef Whaler	0	0		0	0		0	0		0	0		0	0		
Fossil Shark	0	0		0	0		0	0		0	0		0	0		
Hardnose Whaler	0	0		0	0		0	0		0	0		0	0		
Weasel Shark	0	0		0	0		0	0		0	0		0	0		
Whaler	0	0		0	0		0	0		0	0		0	0		
Scalloped Hammerhead	0	0		0	0		0	0		0	0		0	0		
Hammerhead Shark *	0	0		0	0		0	0		0	0		0	0		
Whale Shark	0	0		0	0		0	0		0	0		0	0		
Grey Nurse Shark	0	0		0	0		0	0		0	0		0	0		
Tawny Shark	0	0		0	0		0	0		0	0		0	0		
Zebra Shark	0	0		0	0		0	0		0	0		0	0		
Port Jackson Shark	0	0		0	0		0	0		0	0		0	0		
Unknown Shark	0	0		0	0		0	0		0	0		0	0		
Manta Ray	0	0		0	0		0	0		0	0		0	0		
Devilray *	0	0		0	0		0	0		0	0		0	0		
Cownose Ray	0	0		0	0		0	0		0	0		0	0		
Eagle Ray *	0	0		0	0		0	0		0	0		0	0		
White-Spotted Eagle Ray	0	0		0	0		0	0		0	0		0	0		
Shark Ray	0	0		0	0		0	0		0	0		0	0		
White-Spotted Guitar	0	0		0	0		0	0		0	0		0	0		
Shovel nosed Ray *	0	0		0	0		0	0		0	0		0	0		
Bull Ray	0	0		0	0		0	0		0	0		0	0		
Ray	0	0		0	0		0	0		0	0		0	0		
Teleosts																
Black Kingfish Cobia	0	0		0	0		0	0		0	0		0	0		
Bonita	0	0		0	0		0	0		0	0		0	0		
Cod	0	0		0	0		0	0		0	0		0	0		
Giant Trevally	0	0		0	0		0	0		0	0		0	0		
Jewfish	0	0		0	0		0	0		0	0		0	0		
Mackerel	0	0		0	0		0	0		0	0		0	0		
Queen Fish	0	0		0	0		0	0		0	0		0	0		
Salmon	0	0		0	0		0	0		0	0		0	0		
Snapper	0	0		0	0		1	10	0.06 (0.06)	1	20	0.06 (0.06)	0	0		
Sweetlip	0	0		0	0		0	0		0	0		0	0		
Tuna	0	0		0	0		0	0		0	0		0	0		
Marine Mammals																
Humpback Whale	0	0		0	0		0	0		0	0		0	0		
Australian Hb Dolphin	0	0		0	0		0	0		0	0		0	0		
Bottlenose Dolphin	0	0		0	0		0	0		0	0		0	0		
Common Dolphin	0	0		0	0		0	0		0	0		1	14.3	0.06 (0.06)	
Spinner Dolphin	0	0		0	0		0	0		0	0		0	0		
Dolphin	0	0		0	0		0	0		0	0		0	0		
Dugong	0	0		0	0		0	0		0	0		0	0		
Marine Turtles																
Green Turtle	0	0		0	0		0	0		0	0		0	0		
Hawksbill Turtle	0	0		0	0		0	0		1	20	0.06 (0.06)	0	0		
Leatherback Turtle	0	0		0	0		0	0		0	0		0	0		
Loggerhead Turtle	3	33.3	0.17 (0.17)	1	25	0.06 (0.06)	0	0		0	0		0	0		
Unidentified Turtle	2	22.2	0.11 (0.11)	0	0		0	0		0	0		0	0		
Birds																
Unidentified Turtle	0	0		0	0		0	0		0	0		0	0		
TOTAL CATCH	9			4			10			5			7			

SUNSHINE COAST SCP catch per gear unit

TAXA	DRUMLINE 56 (2001-2018)						DRUMLINE 57 (2001-2018)				COLOUNDRA BEACH DRUMLINE 58 (2001-2018)				DRUMLINE 59 (2001-2018)				DRUMLINE 60 (2001-2018)			
	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)			
Big Nose Whaler	0	0			0	0			0	0			0	0			0	0				
Bull Whaler	3	27.3	0.17 (0.12)		1	14.3	0.06 (0.06)		2	16.7	0.11 (0.08)		3	20	0.17 (0.12)		4	50	0.22 (0.13)			
Dusky Whaler	0	0			0	0			0	0			0	0			0	0				
Great Hammerhead	0	0			0	0			0	0			0	0			0	0				
Grey Reef Whaler	0	0			0	0			1	8.3	0.06 (0.06)		1	6.7	0.06 (0.06)		0	0				
Long Nose Whaler	0	0			0	0			0	0			0	0			2	25	0.11 (0.08)			
Mako	0	0			0	0			0	0			0	0			0	0				
Pigeye Whaler	0	0			2	28.6	0.11 (0.08)		1	8.3	0.06 (0.06)		0	0			0	0				
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0				
Sharptooth Shark	0	0			0	0			0	0			0	0			0	0				
Silky Whaler	0	0			0	0			0	0			0	0			0	0				
Tiger Shark	5	45.5	0.28 (0.11)		4	57.1	0.22 (0.1)		7	58.3	0.39 (0.16)		9	60	0.5 (0.19)		2	25	0.11 (0.08)			
White Shark	0	0			0	0			0	0			1	6.7	0.06 (0.06)		0	0				
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)		
Sharks & Rays																						
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0				
Fossil Shark	0	0			0	0			0	0			0	0			0	0				
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0				
Weasel Shark	0	0			0	0			0	0			0	0			0	0				
Whaler	0	0			0	0			0	0			0	0			0	0				
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0				
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0				
Whale Shark	0	0			0	0			0	0			0	0			0	0				
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0				
Tawny Shark	0	0			0	0			1	8.3	0.06 (0.06)		0	0			0	0				
Zebra Shark	0	0			0	0			0	0			0	0			0	0				
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0				
Unknown Shark	0	0			0	0			0	0			0	0			0	0				
Manta Ray	2	18.2	0.06 (0.06)	0.06 (0.06)	0	0			0	0			0	0			0	0				
Devilray *	0	0			0	0			0	0			0	0			0	0				
Cownose Ray	0	0			0	0			0	0			0	0			0	0				
Eagle Ray *	0	0			0	0			0	0			0	0			0	0				
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0				
Shark Ray	0	0			0	0			0	0			0	0			0	0				
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0				
Shovel nosed Ray *	0	0			0	0			0	0			0	0			0	0				
Bull Ray	0	0			0	0			0	0			0	0			0	0				
Ray	0	0			0	0			0	0			0	0			0	0				
Teleosts																						
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0				
Bonita	0	0			0	0			0	0			0	0			0	0				
Cod	0	0			0	0			0	0			0	0			0	0				
Giant Trevally	0	0			0	0			0	0			0	0			0	0				
Jewfish	0	0			0	0			0	0			0	0			0	0				
Mackerel	0	0			0	0			0	0			0	0			0	0				
Queen Fish	0	0			0	0			0	0			0	0			0	0				
Salmon	0	0			0	0			0	0			0	0			0	0				
Snapper	0	0			0	0			0	0			0	0			0	0				
Sweetlip	0	0			0	0			0	0			0	0			0	0				
Tuna	0	0			0	0			0	0			0	0			0	0				
Marine Mammals																						
Humpback Whale	0	0			0	0			0	0			0	0			0	0				
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0				
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0				
Common Dolphin	0	0			0	0			0	0			1	6.7	0.06 (0.06)		0	0				
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0				
Dolphin	0	0			0	0			0	0			0	0			0	0				
Dugong	0	0			0	0			0	0			0	0			0	0				
Marine Turtles																						
Green Turtle	0	0			0	0			0	0			0	0			0	0				
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0				
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0				
Loggerhead Turtle	1	9.1	0.06 (0.06)		0	0			0	0			0	0			0	0				
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0				
Birds																						
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0				
TOTAL CATCH	11				7				12				15				8					

SUNSHINE COAST SCP catch per gear unit

TAXA	COLOUNDRA BEACH								WOORIM / BRIBIE ISLAND BEACH									
	DRUMLINE 60 (2001-2018)				NET 11 (2003-2018)				DRUMLINE 61 (2001-2018)				DRUMLINE 62 (2001-2018)					
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	
Big Nose Whaler	0	0		0	0			0	0			0	0		0	0		
Bull Whaler	4	50	0.22 (0.13)	7	9.5	0.44 (0.2)		2	33.3	0.11 (0.08)		0	0		3	60	0.17 (0.09)	
Dusky Whaler	0	0		1	1.4	0.06 (0.06)		0	0			0	0		0	0		
Great Hammerhead	0	0		1	1.4	0.06 (0.06)		0	0			0	0		0	0		
Grey Reef Whaler	0	0		1	1.4	0.06 (0.06)		0	0			0	0		1	20	0.06 (0.06)	
Long Nose Whaler	2	25	0.11 (0.08)	11	14.9	0.69 (0.24)		0	0			0	0		0	0		
Mako	0	0		0	0			0	0			0	0		0	0		
Pigeye Whaler	0	0		0	0			1	16.7	0.06 (0.06)		0	0		0	0		
Sandbar Whaler	0	0		0	0			2	33.3	0.11 (0.08)		1	50	0.06 (0.06)	0	0		
Sharptooth Shark	0	0		0	0			0	0			0	0		0	0		
Silky Whaler	0	0		0	0			0	0			0	0		0	0		
Tiger Shark	2	25	0.11 (0.08)	0	0			1	16.7	0.06 (0.06)		0	0		0	0		
White Shark	0	0		0	0			0	0			0	0		0	0		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																		
Blacktip Reef Whaler	0	0			0	0			0	0					1	20		0.06 (0.06)
Fossil Shark	0	0			0	0			0	0					0	0		
Hardnose Whaler	0	0			0	0			0	0					0	0		
Weasel Shark	0	0			1	1.4	0.06 (0.06)		0	0					0	0		
Whaler	0	0			0	0			0	0					0	0		
Scalloped Hammerhead	0	0			3	4.1	0.19 (0.14)		0	0					0	0		
Hammerhead Shark *	0	0			7	9.5	0.44 (0.16)		0	0					0	0		
Whale Shark	0	0			0	0			0	0					0	0		
Grey Nurse Shark	0	0			1	1.4	0.06 (0.06)		0	0					0	0		
Tawny Shark	0	0			0	0			0	0					0	0		
Zebra Shark	0	0			0	0			0	0					0	0		
Port Jackson Shark	0	0			0	0			0	0					0	0		
Unknown Shark	0	0			2	2.7	0.13 (0.09)		0	0					0	0		
Manta Ray	0	0			4	5.4	0.25 (0.14)		0	0					0	0		
Devilray *	0	0			7	9.5	0.44 (0.32)		0	0					0	0		
Cownose Ray	0	0			4	5.4	0.13 (0.09)		0	0					0	0		
Eagle Ray *	0	0			9	12.2	0.25 (0.14)	0.31 (0.15)	0	0					0	0		
White-Spotted Eagle Ray	0	0			2	2.7	0.06 (0.06)	0.06 (0.06)	0	0					0	0		
Shark Ray	0	0			0	0			0	0					0	0		
White-Spotted Guitar	0	0			0	0			0	0					0	0		
Shovel nosed Ray *	0	0			0	0			0	0					0	0		
Bull Ray	0	0			0	0			0	0					0	0		
Ray	0	0			2	2.7		0.13 (0.09)	0	0					0	0		
Teleosts																		
Black Kingfish Cobia	0	0			0	0			0	0					0	0		
Bonita	0	0			0	0			0	0					0	0		
Cod	0	0			0	0			0	0					0	0		
Giant Trevally	0	0			0	0			0	0					0	0		
Jewfish	0	0			0	0			0	0					0	0		
Mackerel	0	0			0	0			0	0					0	0		
Queen Fish	0	0			0	0			0	0					0	0		
Salmon	0	0			0	0			0	0					0	0		
Snapper	0	0			0	0			0	0					0	0		
Sweetlip	0	0			0	0			0	0					0	0		
Tuna	0	0			0	0			0	0					0	0		
Marine Mammals																		
Humpback Whale	0	0			0	0			0	0					0	0		
Australian Hb Dolphin	0	0			0	0			0	0					0	0		
Bottlenose Dolphin	0	0			4	5.4	0.06 (0.06)	0.19 (0.1)	0	0					0	0		
Common Dolphin	0	0			2	2.7		0.13 (0.09)	0	0					1	50		0.06 (0.06)
Spinner Dolphin	0	0			0	0			0	0					0	0		
Dolphin	0	0			1	1.4		0.06 (0.06)	0	0					0	0		
Dugong	0	0			0	0			0	0					0	0		
Marine Turtles																		
Green Turtle	0	0			0	0			0	0					0	0		
Hawksbill Turtle	0	0			1	1.4	0.06 (0.06)		0	0					0	0		
Leatherback Turtle	0	0			0	0			0	0					0	0		
Loggerhead Turtle	0	0			3	4.1	0.13 (0.09)	0.06 (0.06)	0	0					0	0		
Unidentified Turtle	0	0			0	0			0	0					0	0		
Birds																		
Unidentified Turtle	0	0			0	0			0	0					0	0		
TOTAL CATCH	8				74				6						2			

SUNSHINE COAST SCP catch per gear unit

TAXA	WOORIM / BRIBIE ISLAND BEACH																			
	DRUMLINE 64 (2001-2018)			DRUMLINE 65 (2001-2018)				DRUMLINE 66 (2001-2018)				DRUMLINE 67 (2001-2018)				DRUMLINE 68 (2001-2018)				
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Big Nose Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Bull Whaler	2	66.7	0.11 (0.11)	3	50	0.17 (0.09)	0	0		3	75	0.17 (0.12)	0	0		0	0			
Dusky Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Great Hammerhead	0	0		0	0		0	0		0	0		0	0		0	0			
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Long Nose Whaler	0	0		1	16.7	0.06 (0.06)	0	0		0	0		0	0		0	0			
Mako	0	0		0	0		0	0		0	0		0	0		0	0			
Pigeye Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Silky Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Tiger Shark	0	0		0	0		0	0		0	0		1	25	0.06 (0.06)	0	0			
White Shark	0	0		1	16.7	0.06 (0.06)	0	0		0	0		0	0		0	0			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovel nosed Ray *	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	0	0			1	16.7	0.06 (0.06)		0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	1	33.3	0.06 (0.06)		0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			1	100	0.06 (0.06)		0	0			1	100		0.06 (0.06)
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
Birds																				
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	3				6				1				4				1			

SUNSHINE COAST SCP catch per gear unit

TAXA	WOORIM / BRIBIE ISLAND BEACH																			
	DRUMLINE 69 (2001-2018)				DRUMLINE 70 (2001-2018)				DRUMLINE 71 (2001-2018)				DRUMLINE 72 (2001-2018)				DRUMLINE 73 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Big Nose Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Bull Whaler	1	50	0.06 (0.06)	0	0		0	0		0	0		3	100	0.17 (0.09)	0	0			
Dusky Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Great Hammerhead	0	0		0	0		0	0		0	0		0	0		0	0			
Grey Reef Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Long Nose Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Mako	0	0		0	0		0	0		0	0		0	0		0	0			
Pigeye Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Silky Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Tiger Shark	1	50	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0			
White Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovel nosed Ray *	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	0	0			0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			0	0			1	100	0.06 (0.06)		0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			1	100	0.06 (0.06)	
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
Birds																				
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	2				0				1				3				1			

SUNSHINE COAST SCP catch per gear unit

TAXA	WOORIM / BRIBIE ISLAND BEACH																			
	DRUMLINE 74 (2001-2018)				DRUMLINE 75 (2001-2018)				DRUMLINE 76 (2001-2018)				DRUMLINE 77 (2001-2018)				DRUMLINE 78 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Big Nose Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Bull Whaler	1	33.3	0.06 (0.06)	0	0		1	33.3	0.06 (0.06)	1	33.3	0.06 (0.06)	1	33.3	0.06 (0.06)	1	33.3	0.06 (0.06)		
Dusky Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Great Hammerhead	0	0		0	0		0	0		0	0		0	0		0	0			
Grey Reef Whaler	0	0		1	100	0.06 (0.06)	0	0		0	0		0	0		0	0			
Long Nose Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Mako	0	0		0	0		0	0		0	0		0	0		0	0			
Pigeye Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Silky Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Tiger Shark	2	66.7	0.11 (0.08)	0	0		1	33.3	0.06 (0.06)	2	66.7	0.11 (0.08)	2	66.7	0.11 (0.08)	2	66.7	0.11 (0.08)		
White Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Hardnose Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Whale Shark	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Port Jackson Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle Ray	0	0			0	0			0	0			0	0			0	0		
Shark Ray	0	0			0	0			0	0			0	0			0	0		
White-Spotted Guitar	0	0			0	0			0	0			0	0			0	0		
Shovel nosed Ray *	0	0			0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Bonita	0	0			0	0			0	0			0	0			0	0		
Cod	0	0			0	0			0	0			0	0			0	0		
Giant Trevally	0	0			0	0			0	0			0	0			0	0		
Jewfish	0	0			0	0			0	0			0	0			0	0		
Mackerel	0	0			0	0			0	0			0	0			0	0		
Queen Fish	0	0			0	0			0	0			0	0			0	0		
Salmon	0	0			0	0			0	0			0	0			0	0		
Snapper	0	0			0	0			0	0			0	0			0	0		
Sweetlip	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	0	0			0	0			1	33.3	0.06 (0.06)		0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Dugong	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Hawksbill Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			0	0			0	0		
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
Birds																				
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	3				1				3				3				3			

NTH STRADBROKE SCP catch per gear unit

TAXA	DRUMLINE 1 (2001-2018)				DRUMLINE 2 (2001-2018)				AMITY PT BEACH DRUMLINE 3 (2001-2018)				DRUMLINE 4 (2001-2018)				DRUMLINE 5 (2001-2018)							
	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)					
Target species																								
Big Nose Whaler	0	0			0	0			0	0			0	0			0	0			0	0		
Blue Shark	0	0			0	0			0	0			0	0			0	0			0	0		
Bull Whaler	7	70	0.39 (0.14)		1	33.3	0.06 (0.06)		2	66.7	0.11 (0.08)		0	0			1	14.3	0.06 (0.06)		0	0		
Dusky Whaler	0	0			0	0			0	0			0	0			0	0			0	0		
Great Hammerhead	0	0			0	0			0	0			0	0			0	0			0	0		
Mako	0	0			0	0			0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			0	0			1	33.3	0.06 (0.06)		0	0			0	0		
Tiger Shark	0	0			0	0			0	0			1	33.3	0.06 (0.06)		1	14.3	0.06 (0.06)		0	0		
White Shark	0	0			0	0			0	0			0	0			0	0			0	0		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)				
Sharks & Rays																								
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0			0	0		
Teleosts																								
Cod	0	0			0	0			0	0			0	0			0	0			0	0		
Marine Mammals																								
Humpback Whale	0	0			0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0			0	0		
Marine Turtles																								
Green Turtle	0	0			0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	3	30	0.17 (0.12)		2	66.7	0.11 (0.08)		0	0			1	33.3	0.06 (0.06)		5	71.4	0.28 (0.14)		0	0		
Unidentified Turtle	0	0			0	0			1	33.3	0.06 (0.06)		0	0			0	0			0	0		
TOTAL CATCH	10				3				3				3				7							

NTH STRADBROKE SCP catch per gear unit

TAXA	AMITY PT BEACH				FLINDERS BEACH											
	DRUMLINE 6 (2001-2018)		DRUMLINE 7 (2001-2018)		DRUMLINE 8 (2001-2018)		DRUMLINE 9 (2017, 2018)		DRUMLINE 10 (2017, 2018)							
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	
Big Nose Whaler	0	0		0	0		0	0		0	0		0	0		
Blue Shark	0	0		0	0		0	0		0	0		0	0		
Bull Whaler	3	27.3	0.17 (0.12)	1	20	0.06 (0.06)	0	0		0	0		0	0		
Dusky Whaler	0	0		0	0		0	0		0	0		0	0		
Great Hammerhead	0	0		0	0		0	0		0	0		0	0		
Mako	0	0		0	0		0	0		0	0		0	0		
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		
Sharptooth Shark	0	0		0	0		1	25	0.06 (0.06)	0	0		0	0		
Tiger Shark	1	9.1	0.06 (0.06)	2	40	0.11 (0.11)	0	0		1	100	0.5 (0.5)	1	100	0.5 (0.5)	
White Shark	0	0		0	0		0	0		0	0		0	0		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																
Blacktip Reef Whaler	1	9.1		0.06 (0.06)	0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0		
Teleosts																
Cod	0	0			0	0			0	0			0	0		
Marine Mammals																
Humpback Whale	0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0		
Marine Turtles																
Green Turtle	1	9.1	0.06 (0.06)		0	0			0	0			0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0		
Loggerhead Turtle	5	45.5	0.28 (0.14)		2	40	0.11 (0.08)		3	75	0.17 (0.09)		0	0		
Unidentified Turtle	0	0			0	0			0	0			0	0		
TOTAL CATCH	11				5				4				1			

NTH STRADBROKE SCP catch per gear unit

TAXA	FLINDERS BEACH				CYLINDER BEACH															
	DRUMLINE 11 (2017, 2018)			DRUMLINE 12 (2001-2018)				DRUMLINE 13 (2001-2018)				DRUMLINE 14 (2001-2018)				DRUMLINE 15 (2001-2018)				
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	
Big Nose Whaler	0	0		0	0			0	0			0	0			0	0			
Blue Shark	0	0		0	0			0	0			0	0			0	0			
Bull Whaler	0	0		1	4	0.06 (0.06)		0	0			2	6.7	0.11 (0.08)		1	4	0.06 (0.06)		
Dusky Whaler	0	0		4	16	0.22 (0.17)		3	10.3	0.17 (0.12)		2	6.7	0.11 (0.08)		2	8	0.11 (0.08)		
Great Hammerhead	0	0		1	4	0.06 (0.06)		0	0			0	0			0	0			
Mako	0	0		0	0			1	3.4	0.06 (0.06)		0	0			0	0			
Sandbar Whaler	0	0		0	0			0	0			0	0			0	0			
Sharptooth Shark	0	0		0	0			1	3.4	0.06 (0.06)		0	0			0	0			
Tiger Shark	2	100	1 (1)	11	44	0.61 (0.35)		17	58.6	0.94 (0.27)		13	43.3	0.72 (0.29)		11	44	0.61 (0.18)		
White Shark	0	0		0	0			1	3.4	0.06 (0.06)		2	6.7	0.11 (0.08)		3	12	0.17 (0.09)		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			2	6.7		0.11 (0.08)	1	4		
Fossil Shark	0	0			0	0			1	3.4		0.06 (0.06)	0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			1	3.3	0.06 (0.06)		0	0		
Teleosts																				
Cod	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			1	4	0.06 (0.06)		0	0			0	0			0	0		
Loggerhead Turtle	0	0			7	28	0.39 (0.14)		5	17.2	0.28 (0.11)		8	26.7	0.39 (0.23)	0.06 (0.06)	7	28	0.39 (0.2)	
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	2				25				29				30				25			

NTH STRADBROKE SCP catch per gear unit

TAXA	DRUMLINE 16 (2006-2018)						CYLINDER BEACH				DRUMLINE 19 (2006-2018)				DRUMLINE 20 (2012-2018)					
	DRUMLINE 16 (2006-2018)		DRUMLINE 17 (2006-2018)		DRUMLINE 18 (2006-2018)		DRUMLINE 19 (2006-2018)		DRUMLINE 20 (2012-2018)		DRUMLINE 19 (2006-2018)		DRUMLINE 20 (2012-2018)		DRUMLINE 19 (2006-2018)		DRUMLINE 20 (2012-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Big Nose Whaler	0	0		1	7.7	0.08 (0.08)	0	0		0	0		0	0		0	0			
Blue Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Bull Whaler	0	0		1	7.7	0.08 (0.08)	0	0		0	0		0	0		0	0			
Dusky Whaler	1	12.5	0.08 (0.08)	0	0		2	40	0.15 (0.1)	0	0		2	40	0.29 (0.18)	0	0			
Great Hammerhead	0	0		0	0		0	0		0	0		0	0		0	0			
Mako	0	0		0	0		0	0		0	0		0	0		0	0			
Sandbar Whaler	0	0		1	7.7	0.08 (0.08)	0	0		0	0		0	0		0	0			
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Tiger Shark	5	62.5	0.38 (0.21)	4	30.8	0.31 (0.17)	2	40	0.15 (0.1)	2	25	0.15 (0.1)	2	40	0.29 (0.18)	0	0			
White Shark	0	0		2	15.4	0.15 (0.15)	1	20	0.08 (0.08)	1	12.5	0.08 (0.08)	0	0		0	0			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	1	12.5		0.08 (0.08)	0	0			0	0			1	12.5		0.08 (0.08)	0	0		
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			1	12.5		0.08 (0.08)	1	20	0.14 (0.14)	
Teleosts																				
Cod	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0		0.08 (0.08)	1	12.5			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	1	12.5	0.08 (0.08)		0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			4	30.8	0.31 (0.17)		0	0			2	25	0.15 (0.15)		0	0		
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	8				13				5				8				5			

NTH STRADBROKE SCP catch per gear unit

TAXA	CYLINDER BEACH												OCEAN BEACH							
	DRUMLINE 21 (2012-2018)				DRUMLINE 22 (2012-2018)				DRUMLINE 23 (2012-2018)				DRUMLINE 24 (2001-2018)			DRUMLINE 25 (2001-2018)				
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)		
Big Nose Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Blue Shark	0	0		0	0		0	0		0	0		1	2.9	0.06 (0.06)	0	0			
Bull Whaler	0	0		0	0		0	0		0	0		1	2.9	0.06 (0.06)	1	8.3	0.06 (0.06)		
Dusky Whaler	0	0		0	0		0	0		0	0		8	22.9	0.44 (0.2)	2	16.7	0.11 (0.11)		
Great Hammerhead	0	0		0	0		0	0		0	0		1	2.9	0.06 (0.06)	1	8.3	0.06 (0.06)		
Mako	0	0		0	0		0	0		0	0		4	11.4	0.22 (0.1)	1	8.3	0.06 (0.06)		
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		1	8.3	0.06 (0.06)		
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Tiger Shark	4	100	0.57 (0.3)	4	80	0.57 (0.2)	3	100	0.43 (0.3)	9	25.7	0.5 (0.15)	3	25	0.17 (0.09)	3	25	0.17 (0.09)		
White Shark	0	0		0	0		0	0		0	0		4	11.4	0.22 (0.13)	1	8.3	0.06 (0.06)		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			1	20		0.14 (0.14)	0	0			0	0			1	8.3		0.06 (0.06)
Fossil Shark	0	0			0	0			0	0			0	0			0	0		
Spot-Tail Whaler	0	0			0	0			0	0			3	8.6		0.17 (0.12)	0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Cod	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			1	2.9	0.06 (0.06)		0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			0	0			0	0			3	8.6	0.06 (0.06)	0.11 (0.08)	1	8.3		0.06 (0.06)
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	4				5				3				35				12			

NTH STRADBROKE SCP catch per gear unit

TAXA	DRUMLINE 26 (2001-2018)				DRUMLINE 27 (2001-2018)				OCEAN BEACH DRUMLINE 28 (2001-2018)				DRUMLINE 29 (2001-2018)				DRUMLINE 30 (2001-2018)			
	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No.	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No.	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No.	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No.
Target species																				
Big Nose Whaler	0	0			0	0			0	0			0	0			0	0		
Blue Shark	0	0			0	0			0	0			0	0			0	0		
Bull Whaler	1	10	0.06 (0.06)		0	0			0	0			0	0			1	14.3	0.06 (0.06)	
Dusky Whaler	4	40	0.22 (0.13)		4	33.3	0.22 (0.1)		2	20	0.11 (0.08)		3	33.3	0.17 (0.09)		3	42.9	0.17 (0.09)	
Great Hammerhead	0	0			1	8.3	0.06 (0.06)		0	0			1	11.1	0.06 (0.06)		1	14.3	0.06 (0.06)	
Mako	1	10	0.06 (0.06)		1	8.3	0.06 (0.06)		0	0			3	33.3	0.17 (0.09)		0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0		
Sharptooth Shark	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	2	20	0.11 (0.08)		3	25	0.17 (0.09)		8	80	0.44 (0.25)		0	0			2	28.6	0.11 (0.08)	
White Shark	0	0			0	0			0	0			0	0			0	0		
Non-target species																				
Sharks & Rays																				
Blacktip Reef Whaler	0	0			1	8.3		0.06 (0.06)	0	0			0	0			0	0		
Fossil Shark	0	0			0	0			0	0			2	22.2	0.11 (0.11)		0	0		
Spot-Tail Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	1	10		0.06 (0.06)	0	0			0	0			0	0			0	0		
Teleosts																				
Cod	1	10	0.06 (0.06)		0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			0	0		
Leatherback Turtle	0	0			1	8.3	0.06 (0.06)		0	0			0	0			0	0		
Loggerhead Turtle	0	0			1	8.3	0.06 (0.06)		0	0			0	0			0	0		
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	10				12				10				9				7			

NTH STRADBROKE SCP catch per gear unit

TAXA	DRUMLINE 31 (2001-2018)						DRUMLINE 32 (2012-2018)						OCEAN BEACH				DRUMLINE 34 (2012-2018)				DRUMLINE 35 (2012-2018)			
	DRUMLINE 31 (2001-2018)		DRUMLINE 32 (2012-2018)		DRUMLINE 33 (2012-2018)		DRUMLINE 34 (2012-2018)		DRUMLINE 35 (2012-2018)		DRUMLINE 31 (2001-2018)		DRUMLINE 32 (2012-2018)		DRUMLINE 33 (2012-2018)		DRUMLINE 34 (2012-2018)		DRUMLINE 35 (2012-2018)					
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)			
Big Nose Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0				
Blue Shark	0	0		0	0		0	0		0	0		0	0		0	0		0	0				
Bull Whaler	0	0		0	0		0	0		0	0		2	50	0.29 (0.18)	2	15.4	0.29 (0.18)	0	0				
Dusky Whaler	2	20	0.11 (0.08)	2	50	0.29 (0.18)	0	0		1	25	0.14 (0.14)	3	23.1	0.43 (0.3)	0	0		0	0				
Great Hammerhead	0	0		0	0		0	0		0	0		0	0		0	0		0	0				
Mako	0	0		0	0		0	0		0	0		0	0		0	0		0	0				
Sandbar Whaler	0	0		0	0		0	0		0	0		0	0		0	0		0	0				
Sharptooth Shark	0	0		0	0		0	0		0	0		0	0		0	0		0	0				
Tiger Shark	6	60	0.33 (0.14)	0	0		1	50	0.14 (0.14)	1	25	0.14 (0.14)	5	38.5	0.71 (0.29)	0	0		0	0				
White Shark	1	10	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0		0	0				
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)				
Sharks & Rays																								
Blacktip Reef Whaler	0	0			0	0			1	50	0.14 (0.14)		0	0			0	0						
Fossil Shark	0	0			0	0			0	0			0	0			2	15.4		0.29 (0.18)				
Spot-Tail Whaler	0	0			1	25		0.14 (0.14)	0	0			0	0			0	0						
Scalloped Hammerhead	0	0			0	0			0	0			0	0			1	7.7	0.14 (0.14)					
Teleosts																								
Cod	0	0			0	0			0	0			0	0			0	0						
Marine Mammals																								
Humpback Whale	1	10	0.06 (0.06)		0	0			0	0			0	0			0	0						
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0						
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0						
Marine Turtles																								
Green Turtle	0	0			0	0			0	0			0	0			0	0						
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0						
Loggerhead Turtle	0	0			1	25	0.14 (0.14)		0	0			0	0			0	0						
Unidentified Turtle	0	0			0	0			0	0			0	0			0	0						
TOTAL CATCH	10				4				2				4				13							

GOLD COAST SCP catch by gear unit

SHERATON MIRAGE SOUTHPORT BEACH																														
TAXA	DRUMLINE 1 (2001-2018)						DRUMLINE 2 (2001-2018)						DRUMLINE 3 (2001-2018)						DRUMLINE 4 (2001-2018)						DRUMLINE 5 (2001-2018)					
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)											
Bull Whaler	2	33.3	0.11 (0.08)		0	0			0	0			0	0			1	11.1	0.06 (0.06)											
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0												
Dusky Whaler	0	0			0	0			0	0			1	25	0.06 (0.06)		0	0												
Great Hammerhead	0	0			0	0			0	0			0	0			0	0												
Long Nose Whaler	0	0			0	0			0	0			0	0			1	11.1	0.06 (0.06)											
Mako	0	0			0	0			0	0			0	0			0	0												
Pigeye Whaler	0	0			0	0			0	0			0	0			0	0												
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0												
Silky Whaler	0	0			0	0			0	0			0	0			0	0												
Tiger Shark	2	33.3	0.11 (0.08)		1	25	0.06 (0.06)		1	50	0.06 (0.06)		0	0			5	55.6	0.28 (0.11)											
White Shark	1	16.7	0.06 (0.06)		0	0			0	0			0	0			0	0												
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)										
Sharks & Rays																														
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0												
Weasel Shark	0	0			0	0			0	0			0	0			0	0												
Whaler	0	0			0	0			0	0			0	0			0	0												
Scalloped Hammerhead	0	0			0	0			0	0			1	25	0.06 (0.06)		0	0												
Hammerhead Shark *	0	0			0	0			0	0			0	0			1	11.1	0.06 (0.06)											
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0												
Tawny Shark	0	0			0	0			0	0			0	0			0	0												
Zebra Shark	0	0			0	0			0	0			0	0			0	0												
Unknown Shark	0	0			0	0			0	0			0	0			0	0												
Manta Ray	0	0			0	0			0	0			0	0			0	0												
Devilray *	0	0			0	0			0	0			0	0			0	0												
Cownose Ray	0	0			0	0			0	0			0	0			0	0												
Eagle Ray *	0	0			0	0			0	0			0	0			0	0												
White-Spotted Eagle	0	0			0	0			0	0			0	0			0	0												
Giant Shovel nosed Ray	0	0			0	0			0	0			0	0			0	0												
Eastern Shovel nosed	0	0			0	0			0	0			0	0			0	0												
Shovel nosed Ray *	0	0			0	0			0	0			0	0			0	0												
Bull Ray	0	0			0	0			0	0			0	0			0	0												
Ray	0	0			0	0			0	0			0	0			0	0												
Teleosts																														
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0												
Marlin	0	0			0	0			0	0			0	0			0	0												
Tuna	0	0			0	0			0	0			0	0			0	0												
Wahoo	0	0			0	0			0	0			0	0			0	0												
Marine Mammals																														
Humpback Whale	0	0			0	0			0	0			0	0			0	0												
Antarctic Minke Whale	0	0			0	0			0	0			0	0			0	0												
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0												
Common Dolphin	0	0			2	50	0.11 (0.08)		0	0			0	0			1	11.1	0.06 (0.06)											
Bottlenose Dolphin	1	16.7	0.06 (0.06)		0	0			0	0			0	0			0	0												
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0												
Dolphin	0	0			0	0			0	0			0	0			0	0												
Marine Turtles																														
Green Turtle	0	0			0	0			0	0			1	25	0.06 (0.06)		0	0												
Leatherback Turtle	0	0			0	0			1	50	0.06 (0.06)		0	0			0	0												
Loggerhead Turtle	0	0			1	25	0.06 (0.06)		0	0			1	25	0.06 (0.06)		0	0												
Olive Ridley Turtle	0	0			0	0			0	0			0	0			0	0												
TOTAL CATCH	6				4				2				4				9													

GOLD COAST SCP catch by gear unit

TAXA	MAIN BEACH				NARROWNECK BEACH								STAGHORN AVE BEACH							
	NET 1 (2001, 2003-2018)				DRUMLINE 6 (2001-2018)				DRUMLINE 7 (2001-2018)				DRUMLINE 8 (2001-2018)				DRUMLINE 9 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	
Bull Whaler	4	5.2	0.24 (0.14)		0	0			0	0			2	15.4	0.11 (0.08)		0	0		
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	0	0			0	0			0	0			1	7.7	0.06 (0.06)		0	0		
Great Hammerhead	3	3.9	0.18 (0.1)		0	0			0	0			0	0			0	0		
Long Nose Whaler	7	9.1	0.41 (0.21)		1	14.3	0.06 (0.06)		0	0			0	0			0	0		
Mako	0	0			0	0			0	0			1	7.7	0.06 (0.06)		0	0		
Pigeye Whaler	0	0			0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			2	28.6	0.11 (0.08)		0	0			1	16.7	0.06 (0.06)	
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	1	1.3	0.06 (0.06)		1	14.3	0.06 (0.06)		1	14.3	0.06 (0.06)		5	38.5	0.28 (0.18)		1	16.7	0.06 (0.06)	
White Shark	4	5.2	0.24 (0.11)		0	0			2	28.6	0.11 (0.08)		1	7.7	0.06 (0.06)		0	0		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	1	1.3		0.06 (0.06)	0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	10	13		0.59 (0.24)	1	14.3		0.06 (0.06)	0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	2	2.6	0.06 (0.06)	0.06 (0.06)	0	0			0	0			0	0			0	0		
Devilray *	2	2.6	0.06 (0.06)	0.06 (0.06)	0	0			0	0			0	0			0	0		
Cownose Ray	6	7.8	0.29 (0.14)	0.06 (0.06)	0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle	0	0			0	0			0	0			0	0			0	0		
Giant Shovel nosed Ray	0	0			0	0			0	0			0	0			0	0		
Eastern Shovel nosed	0	0			0	0			0	0			0	0			0	0		
Shovel nosed Ray *	9	11.7	0.47 (0.17)	0.06 (0.06)	0	0			0	0			0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Marlin	0	0			0	0			0	0			0	0			0	0		
Tuna	1	1.3		0.06 (0.06)	0	0			0	0			0	0			0	0		
Wahoo	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	5	6.5	0.29 (0.11)		0	0			0	0			0	0			0	0		
Antarctic Minke Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	15	19.5		0.88 (0.27)	0	0			0	0			1	7.7	0.06 (0.06)		0	0		
Bottlenose Dolphin	1	1.3		0.06 (0.06)	0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	1	1.3		0.06 (0.06)	0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	2	2.6	0.06 (0.06)	0.06 (0.06)	0	0			0	0			0	0			0	0		
Leatherback Turtle	3	3.9	0.12 (0.08)	0.06 (0.06)	0	0			0	0			0	0			0	0		
Loggerhead Turtle	0	0			4	57.1	0.22 (0.13)		2	28.6	0.11 (0.11)		2	15.4	0.11 (0.08)		4	66.7	0.11 (0.08)	0.11 (0.08)
Olive Ridley Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	77				7				7				13				6			

GOLD COAST SCP catch by gear unit

TAXA	ELKHORN AVE BEACH								SURFERS PARADISE BEACH				NORTHCLIFFE BEACH							
	DRUMLINE 10 (2001-2018)				DRUMLINE 11 (2001-2018)				NET 2 (2001, 2003-2018)				DRUMLINE 12 (2001-2018)				DRUMLINE 13 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. p.a. (SE)		
Bull Whaler	0	0		0	0			4	6.6	0.24 (0.11)		2	25	0.11 (0.08)	0	0				
Common Blacktip Whaler	0	0		0	0			0	0			0	0		0	0				
Dusky Whaler	0	0		0	0			2	3.3	0.12 (0.12)		1	12.5	0.06 (0.06)	0	0				
Great Hammerhead	0	0		0	0			0	0			2	25	0.11 (0.08)	1	16.7	0.06 (0.06)			
Long Nose Whaler	0	0		0	0			6	9.8	0.35 (0.15)		0	0		0	0				
Mako	1	16.7	0.06 (0.06)	0	0			1	1.6	0.06 (0.06)		0	0		0	0				
Pigeye Whaler	0	0		0	0			0	0			0	0		0	0				
Sandbar Whaler	0	0		0	0			0	0			1	12.5	0.06 (0.06)	1	16.7	0.06 (0.06)			
Silky Whaler	0	0		0	0			0	0			0	0		0	0				
Tiger Shark	1	16.7	0.06 (0.06)	1	25	0.06 (0.06)		0	0			0	0		2	33.3	0.11 (0.08)			
White Shark	0	0		1	25	0.06 (0.06)		3	4.9	0.18 (0.1)		0	0		1	16.7	0.06 (0.06)			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			11	18	0.06 (0.06)	0.59 (0.23)	0	0			0	0		
Hammerhead Shark *	0	0			0	0			1	1.6		0.06 (0.06)	0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			2	3.3	0.12 (0.08)		0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			4	6.6	0.18 (0.1)	0.06 (0.06)	0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			3	4.9		0.18 (0.13)	0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle	0	0			0	0			0	0			0	0			0	0		
Giant Shovel nosed Ray	0	0			0	0			0	0			0	0			0	0		
Eastern Shovel nosed	0	0			0	0			0	0			0	0			0	0		
Shovel nosed Ray *	0	0			0	0			3	4.9	0.12 (0.08)	0.06 (0.06)	0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Marlin	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Wahoo	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			5	8.2	0.29 (0.14)		0	0			0	0		
Antarctic Minke Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	1	16.7	0.06 (0.06)		0	0			9	14.8	0.12 (0.08)	0.41 (0.12)	0	0			0	0		
Bottlenose Dolphin	0	0			0	0			1	1.6		0.06 (0.06)	1	12.5	0.06 (0.06)		0	0		
Spinner Dolphin	0	0			0	0			1	1.6		0.06 (0.06)	0	0			0	0		
Dolphin	0	0			0	0			3	4.9		0.18 (0.18)	0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			2	3.3	0.06 (0.06)	0.06 (0.06)	0	0			0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	3	50	0.17 (0.12)		2	50	0.11 (0.08)		0	0			1	12.5	0.06 (0.06)		1	16.7	0.06 (0.06)	
Olive Ridley Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	6				4				61				8				6			

GOLD COAST SCP catch by gear unit

TAXA	NORTHCLIFFE BEACH				BROADBEACH BEACH				KURRAWA BEACH				MERMAID BEACH							
	DRUMLINE 14 (2001-2018)				DRUMLINE 15 (2001-2018)				DRUMLINE 16 (2001-2018)				NET 3 (2001-2018)				NET 4 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)		Total No. Caught	% Total	Mean No. p.a. (SE)	
Bull Whaler	0	0			0	0			1	11.1	0.06 (0.06)		5	5.7	0.28 (0.14)		1	1.1	0.06 (0.06)	
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	0	0			2	14.3	0.11 (0.08)		1	11.1	0.06 (0.06)		0	0			2	2.2	0.11 (0.08)	
Great Hammerhead	1	11.1	0.06 (0.06)		0	0			0	0			6	6.8	0.33 (0.14)		3	3.3	0.17 (0.12)	
Long Nose Whaler	1	11.1	0.06 (0.06)		1	7.1	0.06 (0.06)		0	0			10	11.4	0.56 (0.2)		7	7.7	0.39 (0.14)	
Mako	0	0			0	0			0	0			0	0			0	0		
Pigeeye Whaler	0	0			0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			2	14.3	0.11 (0.08)		1	11.1	0.06 (0.06)		1	1.1	0.06 (0.06)		2	2.2	0.11 (0.11)	
Silky Whaler	0	0			1	7.1	0.06 (0.06)		0	0			0	0			0	0		
Tiger Shark	3	33.3	0.17 (0.12)		4	28.6	0.22 (0.13)		5	55.6	0.28 (0.14)		1	1.1	0.06 (0.06)		0	0		
White Shark	1	11.1	0.06 (0.06)		0	0			0	0			1	1.1	0.06 (0.06)		2	2.2	0.11 (0.08)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			9	10.2	0.5 (0.26)		18	19.8	0.11 (0.08)	0.89 (0.27)
Hammerhead Shark *	0	0			0	0			0	0			1	1.1	0.06 (0.06)		0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			1	1.1	0.06 (0.06)		0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			0	0			1	1.1	0.06 (0.06)		5	5.5	0.11 (0.08)	0.17 (0.09)
Devilray *	0	0			0	0			0	0			1	1.1	0.06 (0.06)		1	1.1	0.06 (0.06)	
Cownose Ray	0	0			0	0			0	0			24	27.3	0.94 (0.43)	0.39 (0.23)	26	28.6	0.89 (0.55)	0.56 (0.29)
Eagle Ray *	0	0			0	0			0	0			5	5.7	0.22 (0.13)	0.06 (0.06)	4	4.4	0.17 (0.09)	0.06 (0.06)
White-Spotted Eagle	0	0			0	0			0	0			0	0			0	0		
Giant Shovel nosed Ray	0	0			0	0			0	0			0	0			0	0		
Eastern Shovel nosed	0	0			0	0			0	0			3	3.4	0.17 (0.12)		0	0		
Shovel nosed Ray *	0	0			0	0			0	0			2	2.3	0.11 (0.08)		4	4.4	0.22 (0.13)	
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Marlin	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			4	4.5	0.22 (0.17)		3	3.3		0.17 (0.09)
Wahoo	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			6	6.8	0.22 (0.1)	0.11 (0.08)	3	3.3	0.11 (0.11)	0.06 (0.06)
Antarctic Minke Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	1	11.1	0.06 (0.06)		0	0			0	0			1	1.1	0.06 (0.06)		3	3.3	0.06 (0.06)	0.11 (0.08)
Bottlenose Dolphin	0	0			0	0			0	0			1	1.1	0.06 (0.06)		0	0		
Spinner Dolphin	0	0			0	0			0	0			3	3.4	0.17 (0.09)		0	0		
Dolphin	0	0			0	0			0	0			0	0			3	3.3		0.17 (0.12)
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			0	0			1	1.1	0.06 (0.06)	
Leatherback Turtle	0	0			1	7.1	0.06 (0.06)		0	7.1	0.06 (0.06)		0	0			1	1.1	0.06 (0.06)	
Loggerhead Turtle	2	22.2	0.11 (0.08)		3	21.4	0.17 (0.09)		1	21.4	0.06 (0.06)		1	1.1	0.06 (0.06)		2	2.2	0.11 (0.08)	
Olive Ridley Turtle	0	0			0	0			0	0			1	1.1	0.06 (0.06)		0	0		
TOTAL CATCH	9				14				9				88				91			

GOLD COAST SCP catch by gear unit

TAXA	NOBBYS BEACH								MIAMI BEACH				NTH BURLEIGH							
	DRUMLINE 17 (2001-2018)			DRUMLINE 18 (2001-2018)			NET 5 (2001, 2003-18)				DRUMLINE 19 (2001-2018)		DRUMLINE 20 (2001-2018)							
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No.	Total No.	% Total	Mean No. p.a. (SE) (n=17)	Mean No.	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No.		
Bull Whaler	2	11.1	0.11 (0.08)	0	0			3	2.5	0.18 (0.1)		0	0		0	0				
Common Blacktip Whaler	0	0		0	0			0	0			0	0		0	0				
Dusky Whaler	3	16.7	0.17 (0.09)	0	0			0	0			3	17.6	0.17 (0.09)	0	0				
Great Hammerhead	0	0		0	0			4	3.4	0.24 (0.11)		0	0		0	0				
Long Nose Whaler	1	5.6	0.06 (0.06)	0	0			7	5.9	0.41 (0.19)		3	17.6	0.17 (0.12)	1	10	0.06 (0.06)			
Mako	0	0		2	18.2	0.11 (0.08)		3	2.5	0.18 (0.1)		1	5.9	0.06 (0.06)	1	10	0.06 (0.06)			
Pigeye Whaler	0	0		1	9.1	0.06 (0.06)		0	0			0	0		0	0				
Sandbar Whaler	4	22.2	0.22 (0.13)	1	9.1	0.06 (0.06)		0	0			0	0		1	10	0.06 (0.06)			
Silky Whaler	0	0		0	0			0	0			0	0		0	0				
Tiger Shark	1	5.6	0.06 (0.06)	1	9.1	0.06 (0.06)		1	0.8	0.06 (0.06)		3	17.6	0.17 (0.09)	3	30	0.17 (0.09)			
White Shark	0	0		3	27.3	0.17 (0.12)		1	0.8	0.06 (0.06)		3	17.6	0.17 (0.09)	2	20	0.11 (0.08)			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			1	0.8	0.06 (0.06)		0	0			0	0		
Whaler	0	0			1	9.1	0.06 (0.06)		0	0			0	0			0	0		
Scalloped Hammerhead	1	5.6		0.06 (0.06)	0	0			22	18.6	1.29 (0.48)		0	0			0	0		
Hammerhead Shark *	0	0			0	0			1	0.8	0.06 (0.06)		0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			2	1.7	0.12 (0.08)		0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	0	0			0	0			4	3.4	0.06 (0.06)	0.18 (0.1)	0	0			0	0		
Devilray *	0	0			0	0			3	2.5	0.12 (0.08)	0.06 (0.06)	0	0			0	0		
Cownose Ray	0	0			0	0			45	38.1	1.82 (1.17)	0.82 (0.32)	0	0			0	0		
Eagle Ray *	0	0			0	0			4	3.4	0.24 (0.11)		0	0			0	0		
White-Spotted Eagle	0	0			0	0			0	0			0	0			0	0		
Giant Shovel nosed Ray	0	0			0	0			1	0.8	0.06 (0.06)		0	0			0	0		
Eastern Shovel nosed	0	0			0	0			0	0			0	0			0	0		
Shovel nosed Ray *	0	0			0	0			4	3.4	0.24 (0.14)		0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Marlin	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Wahoo	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			3	2.5	0.18 (0.13)		0	0			0	0		
Antarctic Minke Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	1	5.6	0.06 (0.06)		0	0			3	2.5	0.18 (0.1)		0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			2	1.7	0.06 (0.06)	0.06 (0.06)	0	0			0	0		
Leatherback Turtle	0	0			0	0			1	0.8	0.06 (0.06)		0	0			0	0		
Loggerhead Turtle	5	27.8	0.28 (0.11)		2	18.2	0.11 (0.11)		3	2.5	0.12 (0.08)	0.06 (0.06)	4	23.5	0.22 (0.1)		2	20	0.11 (0.11)	
Olive Ridley Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	18				11				118				17				10			

GOLD COAST SCP catch by gear unit

TAXA	BURLEIGH BEACH NET 6 (2001, 2003-18)				TALLEBUDGERA BEACH NET 7 (2001, 2003-18)				PALM BEACH DRUMLINE 21 (2001-2018)				CURRUMBIN BEACH NET 8 (2001-2018)							
	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)				
Target species																				
Bull Whaler	5	3	0.29 (0.17)		8	5.5	0.47 (0.17)		1	9.1	0.06 (0.06)		1	16.7	0.06 (0.06)		7	4.1	0.39 (0.16)	
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	1	0.6	0.06 (0.06)		1	0.7	0.06 (0.06)		2	18.2	0.11 (0.08)		0	0			2	1.2	0.11 (0.08)	
Great Hammerhead	4	2.4	0.24 (0.14)		5	3.4	0.29 (0.14)		0	0			0	0			7	4.1	0.39 (0.16)	
Long Nose Whaler	21	12.5	1.24 (0.28)		14	9.6	0.82 (0.37)		1	9.1	0.06 (0.06)		1	16.7	0.06 (0.06)		20	11.8	1.11 (0.29)	
Mako	2	1.2	0.12 (0.08)		2	1.4	0.12 (0.08)		0	0			0	0			1	0.6	0.06 (0.06)	
Pigeys Whaler	1	0.6	0.06 (0.06)		0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			2	1.4	0.12 (0.08)		2	18.2	0.11 (0.08)		0	0			0	0		
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	0	0			1	0.7	0.06 (0.06)		0	0			1	16.7	0.06 (0.06)		0	0		
White Shark	7	4.2	0.41 (0.21)		2	1.4	0.12 (0.08)		0	0			0	0			4	2.4	0.22 (0.13)	
Non-target species																				
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	25	14.9	0.06 (0.06)	1.41 (0.4)	33	22.6		1.94 (0.45)	0	0			0	0			25	14.7		1.39 (0.36)
Hammerhead Shark *	1	0.6		0.06 (0.06)	0	0			0	0			0	0			0	0		
Grey Nurse Shark	1	0.6	0.06 (0.06)		1	0.7	0.06 (0.06)		0	0			0	0			1	0.6	0.06 (0.06)	
Tawny Shark	1	0.6	0.06 (0.06)		0	0			0	0			0	0			0	0		
Zebra Shark	2	1.2	0.12 (0.08)		3	2.1	0.18 (0.1)		0	0			0	0			3	1.8	0.11 (0.08)	0.06 (0.06)
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	5	3	0.18 (0.1)	0.12 (0.12)	7	4.8	0.12 (0.08)	0.29 (0.14)	0	0			0	0			3	1.8	0.11 (0.08)	0.06 (0.06)
Devilray *	3	1.8	0.06 (0.06)	0.12 (0.12)	1	0.7	0.06 (0.06)		0	0			0	0			1	0.6	0.06 (0.06)	
Cownose Ray	47	28	1.94 (1.16)	0.82 (0.26)	34	23.3	1.47 (0.39)	0.53 (0.35)	0	0			0	0			55	32.4	2.61 (1.81)	0.44 (0.27)
Eagle Ray *	6	3.6	0.29 (0.14)	0.06 (0.06)	3	2.1	0.12 (0.12)	0.06 (0.06)	0	0			0	0			6	3.5	0.17 (0.09)	0.17 (0.09)
White-Spotted Eagle	0	0			0	0			0	0			0	0			0	0		
Giant Shovel-nosed Ray	1	0.6	0.06 (0.06)		1	0.7	0.06 (0.06)		0	0			0	0			1	0.6	0.06 (0.06)	
Eastern Shovel-nosed	0	0			0	0			0	0			0	0			0	0		
Shovel-nosed Ray *	4	2.4	0.06 (0.06)	0.18 (0.13)	7	4.8	0.41 (0.17)		0	0			0	0			8	4.7	0.17 (0.12)	0.28 (0.11)
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Marlin	0	0			0	0			0	0			0	0			1	0.6		0.06 (0.06)
Tuna	3	1.8		0.18 (0.1)	2	1.4		0.12 (0.08)	0	0			0	0			3	1.8		0.17 (0.09)
Wahoo	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	4	2.4	0.24 (0.14)		1	0.7	0.06 (0.06)		0	0			0	0			6	3.5	0.28 (0.11)	0.06 (0.06)
Antarctic Minke Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	16	9.5	0.06 (0.06)	0.88 (0.24)	9	6.2	0.06 (0.06)	0.47 (0.23)	0	0			0	0			9	5.3		0.5 (0.15)
Bottlenose Dolphin	0	0			0	0			0	0			1	16.7	0.06 (0.06)		1	0.6		0.06 (0.06)
Spinner Dolphin	3	1.8		0.18 (0.13)	0	0			0	0			0	0			1	0.6		0.06 (0.06)
Dolphin	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	1	0.6	0.06 (0.06)		1	0.7		0.06 (0.06)	3	27.3	0.17 (0.12)		2	33.3	0.11 (0.08)		1	0.6	0.06 (0.06)	
Leatherback Turtle	1	0.6		0.06 (0.06)	0	0			0	0			0	0			0	0		
Loggerhead Turtle	3	1.8	0.18 (0.1)		8	5.5	0.47 (0.15)		2	18.2	0.11 (0.11)		0	0			4	2.4	0.17 (0.09)	0.06 (0.06)
Olive Ridley Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	168				146				11				6				170			

GOLD COAST SCP catch by gear unit

TAXA	TUGUN BEACH						BILINGA BEACH						NTH KIRRA							
	DRUMLINE 23 (2001-2018)			DRUMLINE 24 (2001-2018)			DRUMLINE 25 (2001-2018)			NET 9 (2001, 2003-18)			DRUMLINE 26 (2001-2018)							
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No.	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. p.a. (SE)	
Bull Whaler	0	0		0	0		0	0		4	2.3	0.24 (0.11)	0	0		0	0			
Common Blacktip Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Dusky Whaler	1	25	0.06 (0.06)	1	16.7	0.06 (0.06)	0	0		0	0		0	0		0	0			
Great Hammerhead	0	0		0	0		0	0		3	1.8	0.18 (0.1)	0	0		0	0			
Long Nose Whaler	0	0		0	0		0	0		25	14.6	1.47 (0.32)	0	0		0	0			
Mako	0	0		0	0		0	0		1	0.6	0.06 (0.06)	0	0		0	0			
Pigeye Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Sandbar Whaler	0	0		1	16.7	0.06 (0.06)	0	0		0	0		0	0		0	0			
Silky Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Tiger Shark	0	0		4	66.7	0.22 (0.13)	0	0		0	0		0	0		1	25	0.06 (0.06)		
White Shark	1	25	0.06 (0.06)	0	0		0	0		2	1.2	0.12 (0.08)	0	0		0	0			
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No.	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Weasel Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Whaler	0	0		0	0		0	0		0	0		0	0		0	0			
Scalloped Hammerhead	0	0		0	0		0	0		41	24	2.41 (0.73)	1	25	0.06 (0.06)	0.06 (0.06)	0	0		0.06 (0.06)
Hammerhead Shark *	0	0		0	0		0	0		0	0		0	0		0	0			
Grey Nurse Shark	0	0		0	0		0	0		2	1.2	0.06 (0.06)	0.06 (0.06)	0	0		0	0		
Tawny Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Zebra Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Unknown Shark	0	0		0	0		0	0		0	0		0	0		0	0			
Manta Ray	0	0		0	0		0	0		2	1.2	0.06 (0.06)	0.06 (0.06)	0	0		0	0		
Devilray *	0	0		0	0		0	0		2	1.2		0.12 (0.08)	0	0		0	0		
Cownose Ray	0	0		0	0		0	0		40	23.4	1.53 (0.64)	0.82 (0.26)	0	0		0	0		
Eagle Ray *	0	0		0	0		0	0		8	4.7	0.29 (0.17)	0.18 (0.1)	0	0		0	0		
White-Spotted Eagle	0	0		0	0		0	0		0	0		0	0		0	0			
Giant Shovel nosed	0	0		0	0		0	0		1	0.6	0.06 (0.06)		0	0		0	0		
Eastern Shovel nosed	0	0		0	0		0	0		0	0		0	0		0	0			
Shovel nosed Ray *	0	0		0	0		1	33.3	0.06 (0.06)	13	7.6	0.53 (0.15)	0.24 (0.11)	0	0		0	0		
Bull Ray	0	0		0	0		0	0		0	0		0	0		0	0			
Ray	0	0		0	0		0	0		0	0		0	0		0	0			
Teleosts																				
Black Kingfish Cobia	0	0		0	0		0	0		0	0		0	0		0	0			
Marlin	0	0		0	0		0	0		0	0		0	0		0	0			
Tuna	0	0		0	0		0	0		4	2.3		0.24 (0.11)	0	0		0	0		
Wahoo	0	0		0	0		0	0		1	0.6		0.06 (0.06)	0	0		0	0		
Marine Mammals																				
Humpback Whale	0	0		0	0		0	0		1	0.6	0.06 (0.06)		0	0		0	0		
Antarctic Minke Whale	0	0		0	0		0	0		1	0.6		0.06 (0.06)	0	0		0	0		
Australian Hb Dolphin	0	0		0	0		0	0		1	0.6		0.06 (0.06)	0	0		0	0		
Common Dolphin	0	0		0	0		0	0		10	5.8		0.59 (0.19)	0	0		0	0		
Bottlenose Dolphin	0	0		0	0		0	0		1	0.6		0.06 (0.06)	0	0		0	0		
Spinner Dolphin	0	0		0	0		0	0		1	0.6		0.06 (0.06)	0	0		0	0		
Dolphin	1	25	0.06 (0.06)	0	0		0	0		0	0		0	0		0	0			
Marine Turtles																				
Green Turtle	0	0		0	0		0	0		1	0.6	0.06 (0.06)		0	0		0	0		
Leatherback Turtle	0	0		0	0		0	0		1	0.6	0.06 (0.06)		1	25	0.06 (0.06)				
Loggerhead Turtle	1	25	0.06 (0.06)	0	0		1	33.3	0.06 (0.06)	5	2.9	0.24 (0.14)	0.06 (0.06)	1	25	0.06 (0.06)				
Olive Ridley Turtle	0	0		0	0		1	33.3	0.06 (0.06)	0	0		0	0		0	0			
TOTAL CATCH	4				6				3				171				4			

GOLD COAST SCP catch by gear unit

TAXA	NTH KIRRA BEACH DRUMLINE 27 (2001-2018)			KIRRA BEACH NET 10 (2001, 2003-18)				COOLANGATTA BEACH NET 11 (2001-2018)				RAINBOW BAY DRUMLINE 28 (2001-2018)				DRUMLINE 29 (2001-2018)				
	Total No. Caught	% Total	Mean No. p.a. (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	
Target species																				
Bull Whaler	0	0		2	1.2	0.12 (0.08)		3	1.9	0.17 (0.09)		0	0			1	11.1	0.06 (0.06)		
Common Blacktip Whaler	0	0		2	1.2	0.12 (0.08)		0	0			0	0			0	0			
Dusky Whaler	1	10	0.06 (0.06)	1	0.6	0.06 (0.06)		4	2.5	0.22 (0.1)		0	0			0	0			
Great Hammerhead	1	10	0.06 (0.06)	6	3.5	0.35 (0.17)		2	1.2	0.11 (0.08)		0	0			0	0			
Long Nose Whaler	0	0		20	11.6	1.18 (0.25)		17	10.5	0.94 (0.24)		0	0			0	0			
Mako	1	10	0.06 (0.06)	4	2.3	0.24 (0.14)		3	1.9	0.17 (0.09)		1	8.3	0.06 (0.06)		1	11.1	0.06 (0.06)		
Pigeye Whaler	0	0		0	0			0	0			0	0			0	0			
Sandbar Whaler	0	0		0	0			0	0			0	0			0	0			
Silky Whaler	0	0		0	0			0	0			0	0			0	0			
Tiger Shark	5	50	0.28 (0.16)	3	1.7	0.18 (0.1)		0	0			7	58.3	0.39 (0.14)		4	44.4	0.22 (0.13)		
White Shark	1	10	0.06 (0.06)	7	4	0.41 (0.17)		2	1.2	0.11 (0.08)		2	16.7	0.11 (0.08)		1	11.1	0.06 (0.06)		
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			30	17.3		1.76 (0.5)	21	15.6		1.17 (0.26)	0	0			1	11.1		0.06 (0.06)
Hammerhead Shark *	0	0			0	0			1	0		0.06 (0.06)	0	0			0	0		
Grey Nurse Shark	0	0			0	0			1	0.6	0.06 (0.06)		0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			3	1.7	0.12 (0.08)	0.06 (0.06)	2	1.9	0.06 (0.06)	0.06 (0.06)	0	0			0	0		
Unknown Shark	0	0			0	0			1	0		0.06 (0.06)	0	0			0	0		
Manta Ray	0	0			7	4	0.35 (0.15)	0.06 (0.06)	3	1.9	0.06 (0.06)	0.11 (0.08)	0	0			0	0		
Devilray *	0	0			1	0.6		0.06 (0.06)	5	0.6	0.22 (0.13)	0.06 (0.06)	0	0			0	0		
Cownose Ray	0	0			43	24.9	1.53 (0.92)	1 (0.54)	48	34.4	2.11 (0.83)	0.56 (0.18)	0	0			0	0		
Eagle Ray *	0	0			4	2.3	0.12 (0.08)	0.12 (0.08)	8	3.8	0.33 (0.14)	0.11 (0.11)	0	0			0	0		
White-Spotted Eagle	0	0			0	0			2	0	0.06 (0.06)	0.06 (0.06)	0	0			0	0		
Giant Shovel nosed Ray	0	0			0	0			2	0.6	0.11 (0.11)		0	0			0	0		
Eastern Shovel nosed	0	0			0	0			0	0			0	0			0	0		
Shovel nosed Ray *	0	0			8	4.6	0.29 (0.11)	0.18 (0.1)	6	5	0.11 (0.08)	0.22 (0.1)	0	0			0	0		
Bull Ray	0	0			0	0			0	0			0	0			0	0		
Ray	0	0			0	0			1	0	0.06 (0.06)		0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			1	0	0.06 (0.06)		0	0			0	0		
Marlin	0	0			4	2.3		0.24 (0.18)	0	0.6			0	0			0	0		
Tuna	0	0			4	2.3		0.24 (0.11)	0	1.9			0	0			0	0		
Wahoo	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			6	3.5	0.35 (0.15)		8	3.8	0.44 (0.2)		0	0			0	0		
Antarctic Minke Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	0	0			9	5.2		0.53 (0.17)	12	5.6		0.67 (0.18)	0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0.6			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0.6			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			4	2.3	0.18 (0.1)	0.06 (0.06)	5	0.6	0.22 (0.13)	0.06 (0.06)	0	0			0	0		
Leatherback Turtle	0	0			0	0			2	0	0.11 (0.08)		1	8.3	0.06 (0.06)		0	0		
Loggerhead Turtle	1	10	0.06 (0.06)		5	2.9	0.24 (0.14)	0.06 (0.06)	2	2.5	0.11 (0.08)		1	8.3	0.06 (0.06)		1	11.1	0.06 (0.06)	
Olive Ridley Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	10				173				162				12				9			

GOLD COAST SCP catch by gear unit

TAXA	DRUMLINE 30 (2001-2018)				DRUMLINE 31 (2001-2018)				RAINBOW BAY / GREENMOUNT BEACH DRUMLINE 32 (2001-2018)				DRUMLINE 33 (2001-2018)				DRUMLINE 34 (2001-2018)			
	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)	Total No. Caught	% Total	Mean No. p.a. (SE)	Mean No. DEAD (SE)
Target species																				
Bull Whaler	0	0			1	11.1	0.06 (0.06)		0	0			0	0			0	0		
Common Blacktip Whaler	0	0			0	0			0	0			0	0			0	0		
Dusky Whaler	0	0			0	0			0	0			2	12.5	0.11 (0.08)		0	0		
Great Hammerhead	0	0			0	0			0	0			0	0			0	0		
Long Nose Whaler	0	0			0	0			0	0			0	0			0	0		
Mako	0	0			0	0			0	0			0	0			0	0		
Pigeye Whaler	0	0			0	0			0	0			0	0			0	0		
Sandbar Whaler	0	0			0	0			0	0			0	0			0	0		
Silky Whaler	0	0			0	0			0	0			0	0			0	0		
Tiger Shark	1	20	0.06 (0.06)		5	55.6	0.28 (0.18)		4	33.3	0.22 (0.13)		4	25	0.22 (0.1)		2	22.2	0.11 (0.08)	
White Shark	0	0			1	11.1	0.06 (0.06)		3	25	0.17 (0.09)		0	0			1	11.1	0.06 (0.06)	
Non-target species																				
Sharks & Rays																				
Blacktip Reef Whaler	0	0			0	0			0	0			0	0			0	0		
Weasel Shark	0	0			0	0			0	0			0	0			0	0		
Whaler	0	0			0	0			0	0			0	0			0	0		
Scalloped Hammerhead	0	0			0	0			0	0			0	0			0	0		
Hammerhead Shark *	0	0			0	0			0	0			0	0			0	0		
Grey Nurse Shark	0	0			0	0			0	0			0	0			0	0		
Tawny Shark	0	0			0	0			0	0			0	0			0	0		
Zebra Shark	0	0			0	0			0	0			0	0			0	0		
Unknown Shark	0	0			0	0			0	0			0	0			0	0		
Manta Ray	1	20	0.06 (0.06)		0	0			1	8.3	0.06 (0.06)		0	0			0	0		
Devilray *	0	0			0	0			0	0			0	0			0	0		
Cownose Ray	0	0			0	0			0	0			0	0			0	0		
Eagle Ray *	0	0			0	0			0	0			0	0			0	0		
White-Spotted Eagle	0	0			0	0			0	0			0	0			0	0		
Giant Shovelnosed Ray	0	0			0	0			0	0			0	0			0	0		
Eastern Shovelnosed	0	0			0	0			0	0			0	0			0	0		
Shovelnosed Ray *	0	0			0	0			0	0			0	0			0	0		
Bull Ray	1	20	0.06 (0.06)		0	0			0	0			0	0			0	0		
Ray	0	0			0	0			0	0			0	0			0	0		
Teleosts																				
Black Kingfish Cobia	0	0			0	0			0	0			0	0			0	0		
Marlin	0	0			0	0			0	0			0	0			0	0		
Tuna	0	0			0	0			0	0			0	0			0	0		
Wahoo	0	0			0	0			0	0			0	0			0	0		
Marine Mammals																				
Humpback Whale	0	0			0	0			0	0			0	0			0	0		
Antarctic Minke Whale	0	0			0	0			0	0			0	0			0	0		
Australian Hb Dolphin	0	0			0	0			0	0			0	0			0	0		
Common Dolphin	0	0			0	0			0	0			0	0			0	0		
Bottlenose Dolphin	0	0			0	0			0	0			0	0			0	0		
Spinner Dolphin	0	0			0	0			0	0			0	0			0	0		
Dolphin	0	0			0	0			0	0			0	0			0	0		
Marine Turtles																				
Green Turtle	0	0			0	0			0	0			1	6.3	0.06 (0.06)		0	0		
Leatherback Turtle	0	0			0	0			0	0			0	0			0	0		
Loggerhead Turtle	2	40	0.11 (0.08)		2	22.2	0.11 (0.08)		4	33.3	0.22 (0.1)		9	56.3	0.5 (0.17)		6	66.7	0.28 (0.14)	0.06 (0.06)
Olive Ridley Turtle	0	0			0	0			0	0			0	0			0	0		
TOTAL CATCH	5				9				12				16				9			

GOLD COAST SCP catch by gear unit

TAXA	RAINBOW / GREENMOUNT BEACH DRUMLINE 30 (2001-2018)			
Target species	Total No. Caught	% Total	Mean No. p.a. (SE)	
Bull Whaler	0	0		
Common Blacktip Whaler	0	0		
Dusky Whaler	2	13.3	0.11 (0.11)	
Great Hammerhead	0	0		
Long Nose Whaler	0	0		
Mako	2	13.3	0.11 (0.08)	
Pigeye Whaler	0	0		
Sandbar Whaler	0	0		
Silky Whaler	0	0		
Tiger Shark	4	26.7	0.22 (0.1)	
White Shark	4	26.7	0.22 (0.13)	
Non-target species	Total No. Caught	% Total	Mean No. ALIVE (SE)	Mean No. DEAD (SE)
Sharks & Rays				
Blacktip Reef Whaler	0	0		
Weasel Shark	0	0		
Whaler	0	0		
Scalloped Hammerhead	0	0		
Hammerhead Shark *	0	0		
Grey Nurse Shark	0	0		
Tawny Shark	0	0		
Zebra Shark	0	0		
Unknown Shark	0	0		
Manta Ray	0	0		
Devilray *	0	0		
Cownose Ray	0	0		
Eagle Ray *	0	0		
White-Spotted Eagle	0	0		
Giant Shovelnosed Ray	0	0		
Eastern Shovelnosed	0	0		
Shovelnosed Ray *	0	0		
Bull Ray	0	0		
Ray	0	0		
Teleosts				
Black Kingfish Cobia	0	0		
Marlin	0	0		
Tuna	0	0		
Wahoo	0	0		
Marine Mammals				
Humpback Whale	0	0		
Antarctic Minke Whale	0	0		
Australian Hb Dolphin	0	0		
Common Dolphin	0	0		
Bottlenose Dolphin	0	0		
Spinner Dolphin	0	0		
Dolphin	0	0		
Marine Turtles				
Green Turtle	0	0		
Leatherback Turtle	0	0		
Loggerhead Turtle	3	20	0.17 (0.09)	
Olive Ridley Turtle	0	0		
TOTAL CATCH	15			