NRM/NHT FINAL REPORT

Condition of rocky reef communities: A key marine habitat around Tasmania

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Executive Summary

A detailed resurvey of rocky reef fishes, large mobile invertebrates and seaweeds at 136 sites around the entire Tasmanian coastline was conducted during 2006/2007, to assess the current condition of reef communities and determine whether there have been any substantial changes to inshore marine biota since 1994. The results of analysis of floral and faunal community changes during the period between surveys and values of key biological indicators, developed specifically for Tasmanian reef communities, are presented in this report.

Despite considerable pressures on Tasmanian reefs in the form of ocean warming, fishing, introduced species and pollution, little overall change was evident at the community level between the early 1990s and 2006/2007. However, substantial changes were observed in several species. Amongst the most important of these were a decrease in relative abundance and biomass of exploited finfishes greater than 30 cm, and an increase in the relative abundance of the barren-forming, long-spined sea urchin *Centrostephanus rodgersii*. These are likely to be related to fishing and climate driven impacts, respectively. Other smaller changes included an increase in the relative abundance of the introduced species *Forsterygion varium* (many-rayed threefin) and the seastar, *Astrostole scabra*.

In addition to analyzing community characteristics between censuses, a range of measures (indicators) that identify biological condition and important ecological characteristics of Tasmanian reef communities were developed. Indicators that represent important biodiversity measures of the ecosystem as well as those that describe how species, or representative subsets of the communities, are affected by climate change, fishing and pollution and siltation, have been proposed. These indicators are summarized on the next page and details of the calculation of indicators are provided in the report. The sampling techniques (standardized methods that have been used in Tasmania for many years and widely across southern Australia for marine protected area assessment) are discussed in the report.

Whilst identifying a relative stability of reef communities in general during the last decade, this study has highlighted some important smaller-scale changes and it is likely that substantial changes may occur during the next decade as population pressures increase. It is therefore recommended that continued biodiversity monitoring, including assessment of changes in the proposed indicators, be undertaken at a subset of sites on a yearly basis (12 sites in each NRM region, at Rocky Cape, St Helens and Maria Island) and that full resurveys statewide be undertaken at intervals of 10 years.

The project also investigated the relationship between the proximity to fishing access points (i.e. boat ramps) and the impacts of fishing pressure on temperate rocky reef species. The results of this component indicated that banded morwong and recreational rock lobster fisheries have localized impacts that diminish with

distance from boat ramps. More details on this and other aspects of the study will be available in the publications currently being prepared and submitted (details at end of report).

Recommended indicators for monitoring the condition of temperate rocky reefs biodiversity, climate change, fishing impacts (BM = banded morwong, BT = bastard trumpeter, Wr = wrasse (only bluethroat and purple), BF = boarfish) and pollution/catchment effects (CCA = crustose coralline algae, CB = canopy brown algae: all large browns that form a "canopy", G&R = the sum of all (non-filamentous) red and green macroalgae.

Indicator	Taxonomic group	1994	2006
Biodiversity Indicators			
B1 Index of (representative) community change	Fishes		-0.040
	Invertebrates		0.042
	Algae		0.106
B2 Species richness	Fishes	12.838	12.830
	Invertebrates	10.076	10.343
	Algae	14.853	16.653
B3 % introduced species	Fishes and invertebrates	1.619	4.896
	Algae	0	0
B4 % introduced individuals	Fishes and invertebrates	0.140	0.852
	Algae	0	0
Climate Change Indicators			
CI - % cold water species	Fishes	7.904	7.826
	Invertebrates	0.285	0.191
	Algae	10.743	9.247
C2 - % cold water individuals	Fishes	1.812	1.837
	Invertebrates	0.048	0.004
	Algae	10.435	9.956
C3 - Mean abundance *Macrocystis* plants			59.96
C4 - Mean abundance *Centrostephanus*		23.348	37.046
Fishing Impact Indicators			
Abalone and rock lobster:			
F1 - *H. rubra* (abalone)	Mean size	100.169	111.532
F2 - *H. rubra*	Number legal	4.891	7.941
F3 - *H. rubra*	Proportion legal:sub-legal	26.968	35.489
F1 - *J. edwardsii* (rock lobster)	Mean size	72.298	98.624
F2 - *J. edwardsii*	Number legal	0.145	1.763
F3 - *J. edwardsii*	Proportion legal:sub-legal	5.611	52.686
Finfish:			
F4	Size spectra slope:	-2.677	-2.903
F5	Size spectra mid-point height:	0.899	0.891
F6	Mean total biomass of BM, BT, Wr, BF (harvested reef-resident	9031.363	5102.786

	finfish) >30cm		
F7	Proportion of non-commercial to total indivs(>30cm)	0.346	0.363
F8 - *C. spectabilis* (banded morwong)	N >30cm	3.614	2.084
	Mean size	16.768	13.293
F9 - *L. forsteri* (bastard trumpeter)	>30cm	2.875	3.270
	Mean size	11.454	11.692
- *L. lineata* (striped trumpeter)	N >30cm	9	0
	Mean size	10.173	9
- *N. fucicola* (purple wrasse)	N >30cm	5.584	2.923
	Mean size	9.127	8.281
- *N. tetricus* (blue-throated wrasse)	N >30cm	7.782	5.403
	Mean size	9.526	9.288
- *P. recurvirostris* (boar fish)	N >30cm	0.727	0.727
	Mean size	14.722	12.220
- *S. brama* (warehou)	N >30cm	0	0
	Mean size	7.405	
- *T. declivis* (jack mackerel)	N >30cm	71	0
	Mean size	11.541	7.255

Pollution/catchment Indicators

P1 - Mean G&R:CB cover:
P2 - Mean CCA:CB cover:
P3 - Mean silt on reef:

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1. Introduction

Anthropogenically-induced impacts on marine communities are increasing, with climate change, fishing, introductions of pest species and pollution often causing substantial modifications to community structure (Harley at al. 2006; Steele 2004, Southward et al. 2005). The urgent need for long-term monitoring of marine ecosystems at the community level and over broad spatial scales has been highlighted (Helmuth et al. 2006, Halpern & Cottenie 2007), yet such data are logistically difficult and expensive to collect, and hence rare for sub-tidal marine communities in comparison with terrestrial and inter-tidal marine communities (e.g. Cramer et al. 2001; Helmuth et al. 2006). In particular, climate change is believed to be having more substantial and rapid effects on marine communities than terrestrial ones (Helmuth et al. 2006), emphasizing the need for such long-term data to allow a more comprehensive understanding of community responses to climate change.

In Tasmania, shallow rocky reefs have been identified as a key marine habitat in coastal waters, yet like many of the world's marine habitats, they are under increasing pressure from climate change, fishing, introduced species and pollution. Tasmanian waters have experienced amongst the greatest warming of any of the world's oceans during the last 50 years (Ridgway 2007; Smith & Reynolds 2003), with this warming (see Figure 1 for trend) expected to continue. Tasmanian reefs are also under substantial commercial fishing pressure for rock lobster and abalone, and increasing exploitation of banded morwong and wrasse. Tasmania has one of the highest per capita recreational fishing participation rates (~ 30% of the population) in Australia and is one of the few States in which recreational fishers are permitted to use gillnets. There has also been a substantial increase in coastal land development and a boom in eco-tourism that is associated with the 'wilderness experience' and includes diving on Tasmania's unique temperate reefs.

Already apparent signs of change and degradation of Tasmanian reefs during the last 50 years include a decline in the giant kelp, *Macrocystis pyrifera*, on the Tasmanian east coast and an extension in the range of the barrens-forming long-spined sea urchin *Centrostephanus rodgersii*. Both of these have been linked to long-term climate change (Edyvane, 2003). There has also been an increase in the abundance of some introduced species, with the Japanese kelp *Undaria pinnatifida* a particularly prominent example.

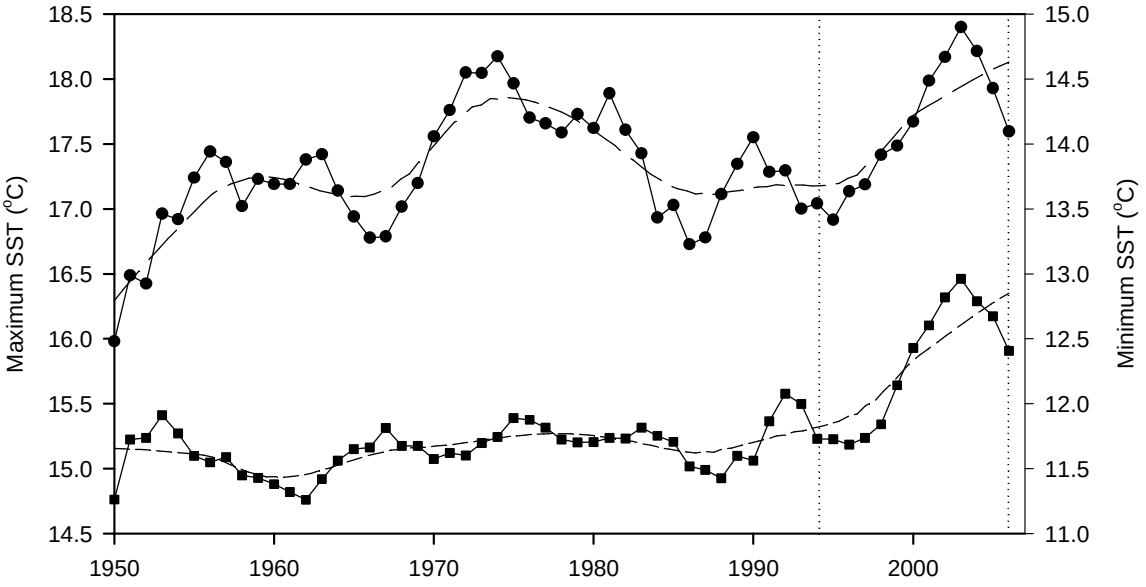

Figure 1. Trend in maximum (circles, left axis) and minimum (square symbols, right axis) sea surface temperatures (5 year running means) on Tasmania's east coast with smoothers superimposed (dashed line) to show the long-term trends. Data from CSIRO monitoring station off Maria Island, 148.23˚E, 42.6˚S (Ridgway 2007).

Tasmanian rocky reefs not only support unique and important biotic assemblages, but are also highly important economically, with the fisheries for rock lobster and abalone valued at ca. $100 M and $50 M p.a., respectively. The abalone fishery is significant on a global scale, supplying 25% of the world production, and is solely fished in these shallow reef habitats. The rock lobster fishery is now also heavily reliant on shallow reef stocks, following a recent shift to increased effort in shallow inshore waters to seek premium product.

If we are to manage and maintain Tasmania's marine biodiversity and develop sustainable utilization of the resources available in the inshore rocky reef environment, we need to be able to identify whether the pressures on these reefs are inducing substantial change that may threaten their integrity. This requires comprehensive monitoring of reef biota, as well as the development and testing of indicators that are appropriate for objective long-term monitoring of the condition of Tasmanian reef systems.

Aims

In this report, we examine general changes in Tasmanian shallow reef faunal and floral communities over a decadal scale, and present a range of indicators developed specifically for monitoring the condition of Tasmanian reef communities.

Between 1992 and 1995, staff from the Tasmanian Aquaculture and Fisheries Institute collected baseline data on fishes, invertebrate and macroalgal communities from 136 reefs around the entire Tasmanian coastline as part of a biogeographical study of inshore reef biota (Edgar et al. 1997). In 2006 and 2007 we re-surveyed these same reef sites to provide information on changes that have occurred in the last 11-15 years. Specifically, we aimed to examine reef community data for changes at the community level, changes in species richness and introduced species populations, and changes that may have resulted from ocean warming and fishing. We used these data in conjunction with existing knowledge of temperate reef ecosystems to establish a suite of biological indicators that are recommended for monitoring the condition of Tasmania's temperate reef habitat in future surveys.

Boat ramp study - the reef surveys also provided useful data to assess the effects of fishing, specifically, whether fishing impacts are related to the positioning of the boat ramps along Tasmania's coastline. Thus, an additional component of this study was to examine the abundance and size of harvested reef species at varying distances from publicly accessible boat ramp. The primary access to Tasmania's marine environment for recreational fishers and some commercial fishers is from coastal boat ramps. Fishers routinely claim that they now have to travel further to "find/catch" their fish. Whilst there is some anecdotal evidence that suggests that divers have to go further to catch legal sized rock lobster or abalone and reef fish, there is no quantitative information on spatial patterns of impacts on harvested species to support or contest this evidence.

2. Methods

2.1 Field methods

The underwater visual census (UVC) methodology used to survey rocky reef communities involved quantitative diver-based surveys of fishes, large mobile invertebrates and macroalgae (see below for more detail; also described by Edgar & Barrett, 1997 and Edgar et al., 1997). It was designed to maximise detection of (i) changes in population numbers and size-structure (ii) cascading ecosystem effects associated with disturbances such as fishing, (iii) long term change and variability in reef assemblages.

At each site, 4 x 50m transects were laid at the 5m or 10m depth contour, and fishes, invertebrates and algae were recorded separately (as described below) by a team of 2 - 3 divers. Details of each site, including the date and GPS location, were recorded and are available at TAFI.

Sites
The initial surveys were largely undertaken during late austral summer and autumn in 1992, 1993, 1994 and 1995. These are hereafter referred to as the 1994 surveys, as this is when the bulk of the sites were surveyed. Resurveys in 2006/2007 (hereafter referred to

as 2006) were conducted at a similar time of year to the original surveys in most cases. A total of 136 sites from 8 bioregions around Tasmania were surveyed in both 1994 and 2006 (shown in Figure 2) and were used in comparative analyses. An additional 60 sites were either resurveyed (from sites first surveyed in 1999) or surveyed for the first time in 2006.

For the boat ramp study, we analysed underwater visual census data on fishes and exploited macroinvertebrates (abalone and rock lobsters) at 133 shallow rocky reef sites around Tasmania that ranged from 0.6 – 131 km from the nearest boat ramp. These sites were not all the same as those used for the comparison of 1994 and 2006 reef communities. The subset of 133 sites examined in this component consisted of only those sites that were characterized by the two major algal (kelp) types (laminarian or fucoid dominated). Sites with atypical algal assemblages were omitted from the 196 sites surveyed in 2006.

Fishes

The density and estimated size-class of fish species within 5 m either side of the 50 m transect line were recorded by a diver (i.e. 50 m x 10 m). This was done by swimming parallel to the transect line (2.5 m away) and recording fish within a 5 m wide lane, then doing the same on the other side of the transect line on the way back. Calibration of size estimates was based on comparison of observed fish lengths with a scale-bar on the slates carried by divers. Size-classes of total fish length were categorised as 25, 50, 75, 100, 125, 150, 200, 250, 300, 350, 375, 400, 500, 625, 750, 875 and 1000+ mm. Lengths of fish >1000 mm length were individually estimated. Care was taken not to record species that were obviously attracted to the divers more than once (e.g. *Scorpis lineolata, Notolabrus fucicola*). Fish census data are affected by a range of biases, including observer error and variation in behavioural responses of fish to divers (DeMartini and Roberts 1990; Kulbicki and Sarramega 1999; Thompson and Mapstone 1997), however the impacts of these biases have been investigated and discussed by Edgar et al. (2004) and we consider that they do not significantly affect the interpretation of results, especially as data used for comparisons between sites were collected using the same method. Additionally, two divers involved in the 1994 surveys (GE and NB) participated in, and trained other divers, for the 2006 surveys.

Invertebrates and cryptic fishes

To survey large invertebrates and cryptic fishes, the diver searched the seabed for a 1 m wide lane along the transect line, including all visible crevices and overhangs but not overturning boulders (i.e. 50 m x 1 m). Four 1 m x 50 m transects were surveyed at each site. Algae were swept away from the transect to obtain a clear view of the substratum. Mobile invertebrates (including rock lobsters, abalone, sea urchins, octopus etc) were counted, as were cryptic fishes (which were also estimated for size). Invertebrates not counted included those under rocks or too small to be accurately counted in the time available. The maximum shell length of abalone and the carapace length of rock lobsters were measured underwater using vernier callipers whenever possible.

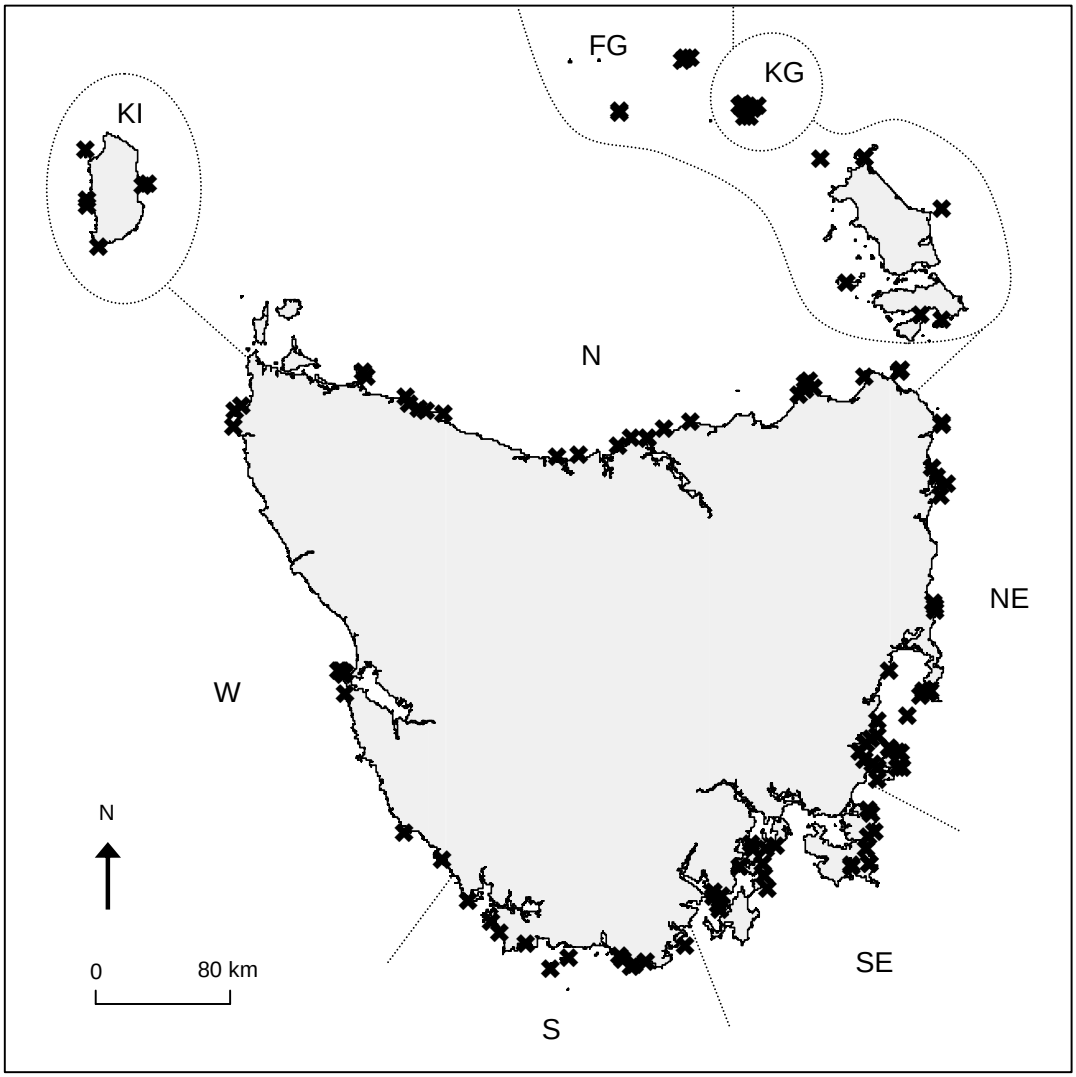

Figure 2. Map of Tasmania showing location of reef sites censused in 1994 and 2006 (black crosses) and near-shore reef bioregions (boundaries indicated by dotted lines) as identified by Edgar et al. (1997). FG = Furneaux, Hogan and Curtis Groups, KG = Kent Group, KI = King Island, N = North coast, W = West coast, S = South coast, SE = Southeast coast, and NE = Northeast coast.

Macroalgae

Macroalgae were surveyed at 10 m intervals along the transect line using a 0.25 m^2 quadrat with a grid of 7 wires crossing perpendicularly. Macroalgal cover was assessed by identifying and counting algae species that occurred directly under the 50 (49 plus one corner) grid positions. The values for each species were converted to percentage of the

total values for all algal species. Algae were counted in layers, with percent cover of canopy species recorded first. These were then pushed aside exposing the understorey species for counting. Unknown or unidentifiable species were either collected and later identified in the laboratory, or were recorded to genus level. In cases of extreme taxonomic uncertainty (such as for many sessile invertebrates, including sponges), taxa were recorded at a higher level (e.g. order).

For the boat ramp study, the underwater visual census methods described above were used to record abundance and size structure of fishes and mobile benthic macroinvertebrates at 133 shallow reef sites around the Tasmanian coastline.

2.2 Statistical analyses

All UVC data were checked for errors in entry before analyses and species for which identification was uncertain were pooled with congeners or other similar species. Schooling pelagic species such as atherinids (hardyheads), clupeids (herrings), *Arripis* spp. (salmon) and *Trachurus* spp. (jack mackerel) were also omitted from most analyses (see Appendix 1 for final species list used in analyses, and Appendix 2 for complete species and site list as recorded by divers). A combination of appropriate multivariate data visualization techniques, e.g. metric and non-metric MDS, and both univariate and multivariate hypothesis tests were performed using statistical software packages (Primer, Systat and SAS). The details of specific tests can be found in the relevant publications arising from this study (manuscripts still in preparation, see Discussion for details), and hence are not provided in this data report. An indication is given of statistical significance where appropriate, however, either in the text or in figure and table captions.

For the boat ramp study, the total relative abundance, the relative abundance of legal-sized and sub-legal sized individuals and the mean size of the six major exploited reef species (southern rock lobster, blacklip abalone, banded morwong, bastard trumpeter and the two exploited wrasse species) were used in analyses. Quantile regression was used, with the 90th percentile regressed to provide an indication of the limiting effect of the distance from the nearest boat ramp on the upper abundance or mean size values. This technique allows for unequal variances, and in doing so, accounts for the fact that there are many other unmeasured factors that contribute to the observed scatter in values of the dependent variable.

3. Results

The results of comparisons of reef communities between 1994 and 2006 are presented under 4 major areas of interest: general biodiversity, climate change, fishing and pollution/catchment effects. For each of these sections, the relevant results are given and the indicators developed/chosen to monitor these categories are provided, along with their values in 1994 and 2006, and the details of their calculation. In some cases, indicators were chosen where data from the 1994 surveys were insufficient for accurate calculation. Consequently, only the 2006 values are provided, and these are robust baselines for future comparisons when monitoring using the same technique.

3.1 Biodiversity

At the reef community level, there were very few changes between 1994 and 2006 for fishes and invertebrates, and only small changes for algae. The changes in algal communities are likely to be an artefact of the increase in availability of information on the relatively poorly studied Tasmanian macroalgal species, and so should be interpreted with caution. Figure 3 shows that spatial (geographical) differences in reef communities (that have already been identified and discussed by Edgar *et al*. 1997) are far greater than any differences between 1994 and 2006, and that reef communities are currently remarkably similar to those in 1994. The mean values for sites in each of the bioregions are presented in the non-metric MDS plots (left column, Fig. 3), which most simply and clearly depict the general similarity of communities between years (the closer the points lie on this figure, the more similar they are in community structure).

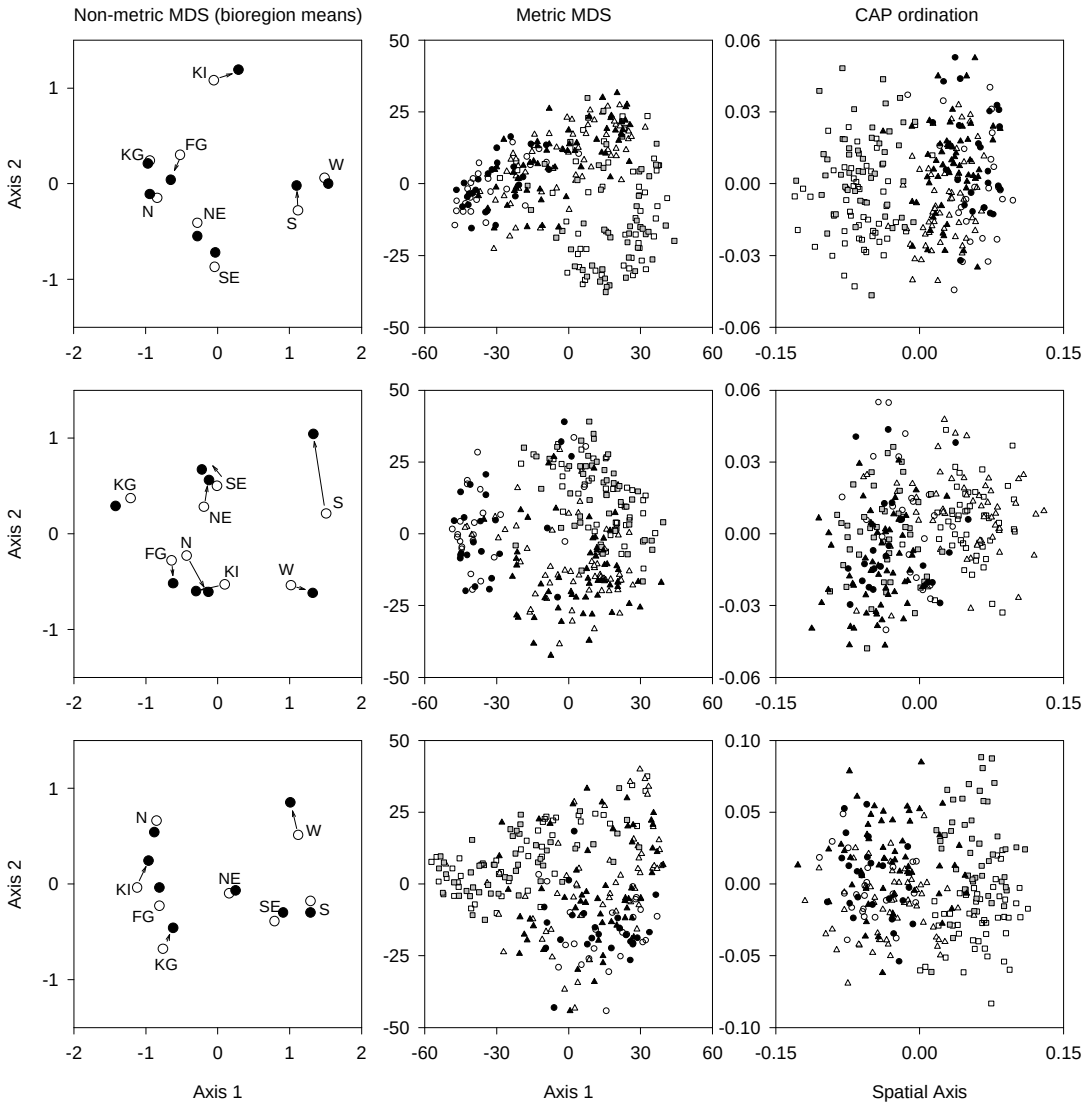

Figure 3. Ordinations of fish, invertebrate and algal communities (top, middle and bottom rows, respectively) based on Bray-Curtis dissimilarity of ln(y+1) transformed data. MDS plots in the first column were based on means for each bioregion (stress values = 0.05, 0.12 and 0.07, respectively) and metric MDS plots were based on the first two principal coordinate axes. CAP plots (right column) were based on separate CAP analyses for the factors "year" (1994 vs 2006; a temporal axis, on Y-axis) and "bioregion" (labelled as "spatial axis", on the X-axis). In all plots, open symbols represent sites surveyed in 1994 and closed (or shaded) symbols, sites surveyed in 2006. For metric MDS and CAP plots, symbols for bioregions were grouped to provide better clarity. Squares represent sites in Bass Strait (bioregions KI, KG, FG and N), triangles, sites on the east coast (NE and SE), and circles, sites on the west and south coast (W and S).

An index of community change was developed (see manuscript on climate-related changes, in prep.) that simply represents the overall changes in abundance of fishes, invertebrates and algae from 1994 to 2006 (Fig. 4). This index ranges from -1 to 1 (see figure caption), yet its values were very close to zero in all bioregions, indicating that overall changes in species' abundances were relatively small.

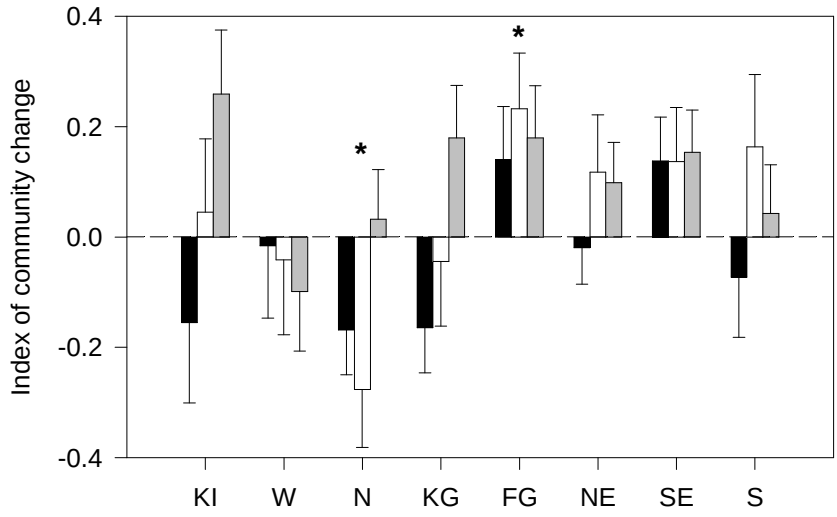

Figure 4. Mean index of community change for fishes (black fill), invertebrates (white fill) and algae (grey fill) between 1994 and 2006 in the eight Tasmanian near-shore bioregions. The index of community change is an index that ranges from -1 to 1 (the full extent of the Y-axis is not shown to enable clearer interpretation of finer scale differences) with zero representing no change in the abundances of species representative of Tasmanian shallow reef communities, and positive numbers representing an overall mean increase in abundances, and negative, an overall decrease. Bioregions with the same symbols (*) differed significantly.

The individual species that best characterized differences between years are shown in Table 1 (these were determined by CAP analysis). Important differences at the individual species level were the increase in the abundance of the introduced species *Forsterygion varium* (many-rayed threefin) and *Asterstole scabra* (seastar), and the decrease in the abundance of *Cheilodactylus spectabilis* (banded morwong), for which commercial harvest has been far greater in the last decade than previously.

Table 1. Differences in the mean abundance (or percent cover for algae) of species most important in describing differences between years. Means presented are numbers per site at which they occurred.

Species	Mean 1994	Mean 2006	↑ or ↓
Fishes			
Latridopsis forsteri (bastard trumpeter) †	0.8	1	-
Aracana aurita (Shaw's cowfish)	1.1	2.5	↑
Scorpis lineolata (silver sweep)	2.3	13.5	↑
Forsterygion varium (many-rayed threefin) *	1.2	7.2	↑
Siphonognathus beddomei (pencil weed whiting)	11.0	5.2	↓
Diodon nicthemerus (globe fish)	1.8	1.3	↓
Heteroclinus johnstoni (Johnston's weedfish)	0.5	0.4	-
Cheilodactylus spectabilis (banded morwong) †	3.8	2.7	↓
Invertebrates			
Patiriella calcar	1.1	2.7	↑
*Astrostole scabra**	0.3	2.1	↑
Pentagonaster dubeni	0.6	0.6	-
Nectria ocellata	2.6	1.4	↓
Petricia vernicina	2.1	1.2	↓
Goniocidaris tubaria	7.4	4.5	↓
Algae			
Caulerpa scalpelliformis	0.1	0.9	↑
Codium pomoides	0.1	0.5	↑
Halopteris spp.	1.2	2.2	↑
Cystophora moniliformis	5.3	9.7	↑
Caulerpa brownii	1.4	3.9	↑
Caulocystis spp.	0.7	1.1	-
Plocamium spp.	3.2	5.4	↑
Dictyopteris muelleri	0.5	1.4	↑
Callophyllis spp.	1.2	2.8	↑
Carpomitra costata	0.2	0.6	↑
Seirococcus axillaris	1.6	1.2	-

* species not native to Tasmania, † commercially or recreationally harvested.

Species richness changed very little with no significant increases or decreases for fish and invertebrates, but some significant differences between bioregions (Fig. 5). The consistently higher species richness in algae in 2006 is probably not a real change, and is more likely due to an increase in the information available on macroalgal species in Tasmania. Small changes occurred in the cover of different functional groups of algae (Fig. 6). Percent cover differed between years for all groups, and between bioregions for red and green algae.

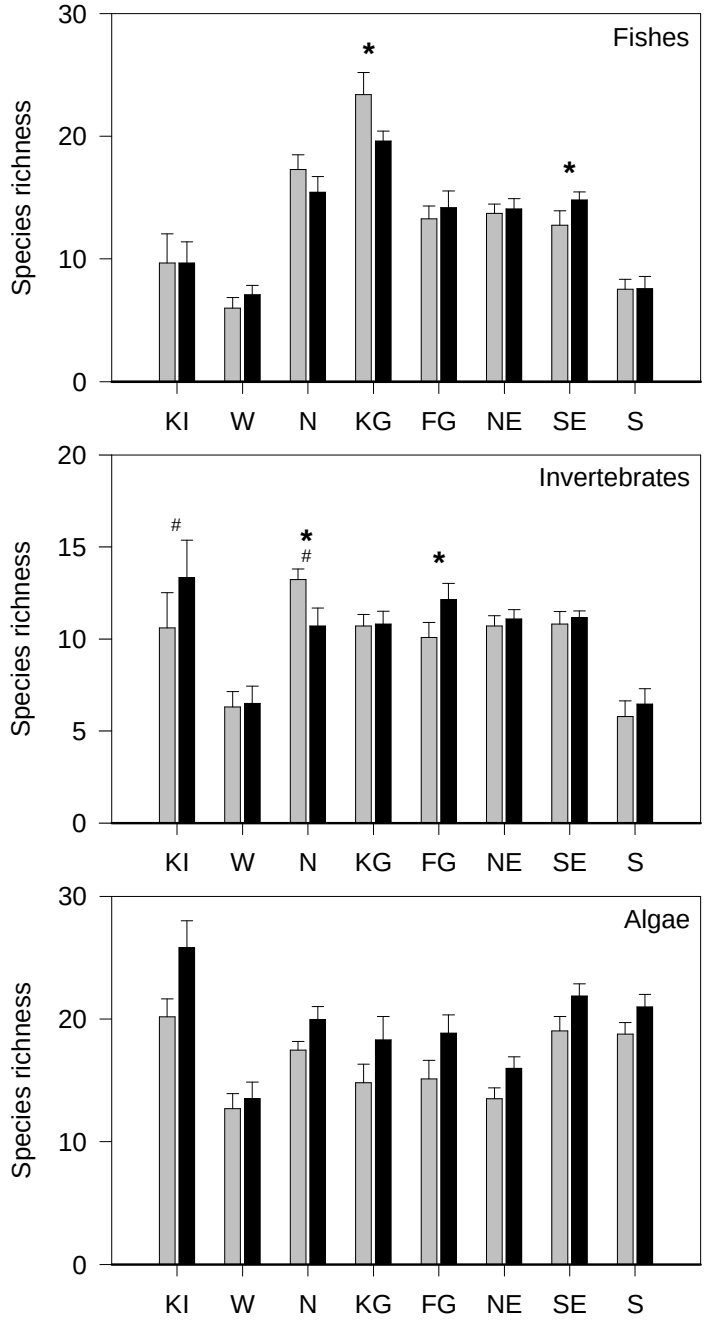

Figure 5. Mean (+ SE) species richness recorded at sites in each bioregion in 1994 (grey fill) and 2006 (black fill). Significant differences in the change in species richness between bioregions are indicated by the same symbol (*).

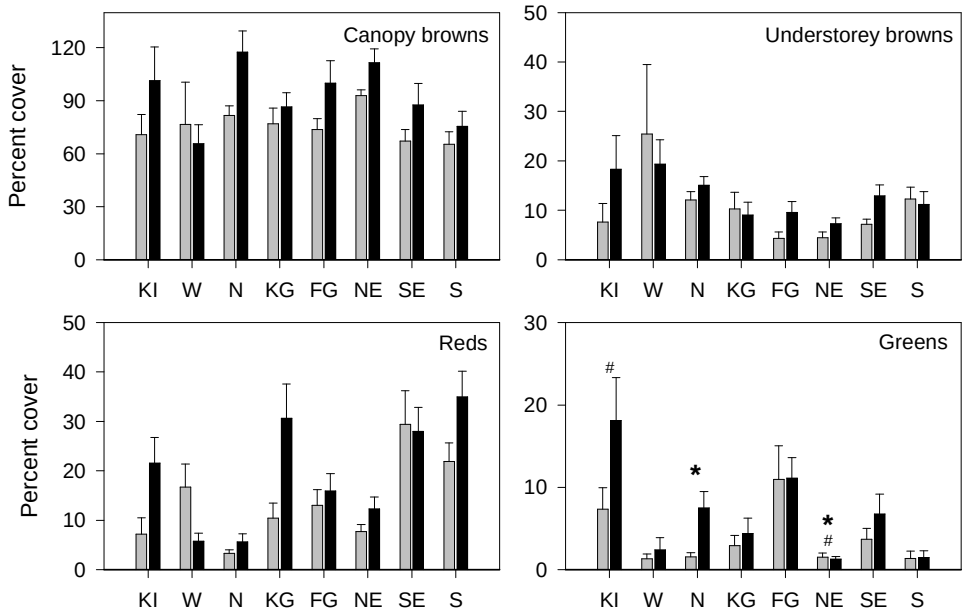

Figure 6. Mean (+ SE) percent cover of different functional groups of algae recorded at sites in each bioregion in 1994 (grey fill) and 2006 (black fill). Percent cover of canopy-forming brown algae can exceed 100% at sites in which several species co-occur but at different canopy heights. Significant differences between bioregions in green algae are indicated by the same symbol (∗). Bioregions that differed in change in red algal cover have not been indicated due to the large number of pair wise differences.

The indicators chosen to monitor biodiversity focus on the number of species found in surveys and the relative abundance of introduced species where they occur. The recommended indicators are provided in Table 2, and notes on their calculation are given below.

Table 2. Recommended indicators for monitoring of temperate reef biodiversity

Indicator	Taxonomic group	1994	2006
B1 Index of (representative) community change	Fishes		-0.040
	Invertebrates		0.042
	Algae		0.106
B2 Species richness	Fishes	12.838	12.830
	Invertebrates	10.076	10.343
	Algae	14.853	16.653
B3 % introduced species	Fishes and invertebrates	1.619	4.896
	Algae	0	0
B4 % introduced individuals	Fishes and invertebrates	0.140	0.852
	Algae	0	0

Calculation notes:

B1 is calculated by doubling a species' abundance in 2006 and dividing this by the sum of its abundance in 1994 and 2006. For each species it was separately calculated at every site and then averaged for the state (or for each bioregion in the case of Figure 4). Species that occurred in at least 6 of the 8 bioregions, and were thus considered to be most representative of Tasmanian reef communities in general, were used. This resulted in 29 fish, 21 invertebrate, and 37 algal species included in this analysis. Means were divided by 2 and arcsine transformed for analysis. For presentation in plots and as an indicator, 1 was subtracted instead (making net decreases in abundance negative, i.e. making the index range from -1 to 1 rather than 0 to 2) to enable easier interpretation of trends.

B2 = the mean across all sites of species richness for each species group. Site species richness is the sum of species observed at each site. Note that some species have been pooled within genera, and also that cryptic fishes are included in fish species richness, despite being recorded on invertebrate transects (please refer to Appendix 1 for details of final species used in each taxonomic group).

B3 is calculated as the percentage of introduced species (of the total number of species) at each site. Note that the mean is only of those sites where at least one introduced species was found in at least one of the two survey years. It was calculated for fishes and invertebrates combined due to the low numbers of introduced species. Algae were not calculated as *Undaria pinnatifida* was the only confirmed introduced algal species and estimates of it's cover is not representative due to the timing of the surveys (summer/autumn).

B4 is the same as B3 except that it is calculated as the percentage of introduced fish and invertebrate individuals at each site (of the total number of individuals).

3.2 Climate change

The waters around Tasmania have warmed considerably during the last century (Fig. 1), particularly on the east coast where a strengthening of the East Australian Current (EAC) has been occurring due to a shift in the South Pacific Gyre (Cai et al. 2005, Cai 2006). Expected responses of marine communities to climate change include changes in species distributions and abundances and consequently in community structure. We observed some small changes in the distributions and abundances of reef species in Tasmania, but only at the individual species level, with no substantial changes to community structure (as shown above). Numerous species were recorded further south in 2006 than 1994, and a smaller number were recorded further north (Table 3). Many of these were small, rare or cryptic species, for which distributional limits are not easily estimated and are hence unreliable. However, many of the species that were found further south in 2006 were species with warmer-water affinities and have likely shown real extensions of their southern distributional limits. These include all 3 species of *Girella* (blackfishes) and the two *Sargassum* (brown seaweed) species. We also recorded one new (rock cale, *Aplodactylus lophodon*), and numerous recent immigrants to Tasmania (e.g. crimson-banded wrasse, *Notolabrus gymnogenis*) (Table 4).

Figures 7 and 8 show that the majority of species showed little change in abundance and southern limit (species close to the dotted line that represents no change), but of the few species that changed, many were warm-water species.

Table 3. Species that showed the greatest differences (> 0.4° or approx. 45 km) between the southern-most latitude (φ S, measured in degrees) at which they were recorded in 1994 and 2006. BA = biogeographical affinity: WW = warmer water species, CW = cold water species, WS = widespread species.

Southward shift in φ S	BA	Δ φ S	Northward shift in φ S	BA	Δ φ S
Fishes					
Siphonognathus attenuatus (slender weed whiting)	WW	2.80	*Hippocampus abdominalis*[#] (big-bellied sea horse)	WW	2.29
Girella tricuspidata (luderick)	WS	2.22	*Atypichthys strigatus* (mado)	WW	1.29
Heteroclinus perspicillatus[#] *(common weedfish)*	WW	1.98	*Gnathanacanthus goetzii*[#](red velvet fish)	WW	0.99
Aetapcus maculatus[#] (warty prowfish)	WW	1.80	*Urolophus paucimaculatus* (sparsely spotted stingaree)	WS	0.91
Enoplosus armatus (old wife)	WS	1.78	*Phyllopteryx taeniolatus*[#] (weedy seadragon)	WS	0.54
Heterodontus portusjacksoni (Port Jackson shark)	WS	1.43	*Upeneichthys vlaminghii* (southern goatfish)	WW	0.52
Girella elevata (Eastern rock blackfish)	WW	0.63	*Heteroclinus johnstoni*[#] (Johnston's weedfish)	WW	0.49
Scorpis aequipinnis (sea sweep)	WW	0.56			
Meuschenia freycineti (Six-spined leatherjacket)	WS	0.48			
Girella zebra (zebra fish)	WS	0.43			
Conger verreauxi[#] (southern conger)	CW	0.42			
Invertebrates					
Echinaster arcystatus	WS	1.30	*Penion mandarinus*	WS	0.69
Charonia lampas rubicunda	WS	0.78			
Pleuroploca australasia	WS	0.44			
Algae					
Caulerpa scalpelliformis	WS	2.13	*Caulerpa obscura*	WW	0.97
Sargassum varians	WW	2.01			
Sargassum sonderi	WW	1.49			
Scaberia agardhii	WS	1.37			
Codium dimorphum	CW	1.16			
Champia viridis	WS	0.50			
Codium fragile	WS	0.43			

[#]rare or cryptic species.

Table 4. Fish and invertebrate species only found in one survey year. BA = biogeographical affinity: WW = warmer water species, CW = cold water species, WS = widespread species.

Species only in 1994	BA	Sites	Mean *N*	Species only in 2006	BA	sites	Mean *N*
Fishes							
Aracana ornata (ornate cowfish)	WW	1	1	*Aploactisoma milesii*[#] (velvetfish)	WS	1	1
Gymnothorax prasinus[#] (green moray)	WS	1	1	*Aplodactylus lophodon*** (rock cale)	WW	1	1
Hypoplectrodes maccullochi (half-banded seaperch)	WW	2	5	*Asymbolus analis*[#] (spotted catshark)	WW	1	1
Hypoplectrodes nigrorubrum (black-banded seaperch)	WS	2	1	*Chironemus georgianus***[#] (tasseled kelpfish)	WW	1	1
Meuschenia scaber (velvet leatherjacket)	WS	7	3.29	*Chironemus marmoratus*** (eastern kelpfish)	WW	3	2
Meuschenia venusta (stars and stripes leatherjacket)	WS	1	1	*Eocallionymus papilio*[#] (painted stinkfish)	WS	1	1
Omegophora armilla (ringed toadfish)	WW	1	1	*Eupetrichthys angustipes*** (snakeskin wrasse)	WS	5	1
Parascyllium variolatum[#] *(rusty catshark)*	WW	2	1	*Nemadactylus macropterus* (Jackass morwong)	WS	3	13.6
Seriolella brama (warehou)	WS	1	665	*Notolabrus gymnogenis*** (crimson-banded wrasse)	WW	5	1.6
Stigmatopora nigra[#] (wide-bodied pipefish)	WS	1	1	*Parascyllium ferrugineum*[#] (rusty catshark)	WW	2	1
Thamnaconus degeni (Degen's leatherjacket)	WW	2	3	*Paratrachichthys* sp.[#] (sandpaperfish)	WS	3	1
				Tetractenos glaber (smooth toadfish)	WW	3	1
Invertebrates							
Amblypneustes sp. 1	CW	5	2	*Carcinus maenas**		2	1
*Patiriella regularis**	CW	1	6	*Fusinus australis*	WW	1	1
Smilasterias multipara[#]	CW	1	1	*Maoricolpus roseus**		1	2
				Nectria multispina	WW	3	1
				Scutus antipodes	WS	12	1.3

**species either not previously recorded in Tasmania or only relatively recent immigrants, *species not native to Tasmania, [#]rare or cryptic species.

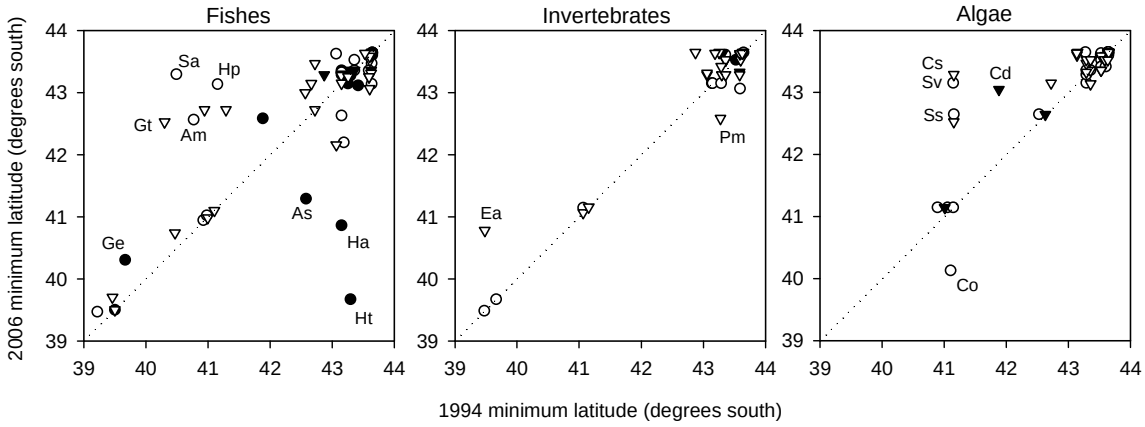

Figure 7. Changes in the southern latitudinal limits of species with different biogeographical affinities. Circles = warmer water species; closed triangles = cold water species; open triangles = widespread species. Dotted line represents no change and symbols above the line represent species that were observed further south in 2006. Species name abbreviations: *Siphonognathus attenuatus* (Sa), *Girella tricuspidata* (Gt), *Heteroclinus perspicillatus* (Hp), *Aetapcus maculatus* (Am), *Girella elevata* (Ge), *Atypichthys strigatus* (As), *Hippocampus abdominalis* (Ha), *Heteroclinus tristis* (Ht), *Echinaster arcystatus* (Ea), *Penion mandarinus* (Pm), *Caulerpa scalpelliformis* (Cs), *Sargassum varians* (Sv), *Sargassum sonderi* (Ss), *Codium dimorphum* (Cd), *Caulerpa obscura* (Co).

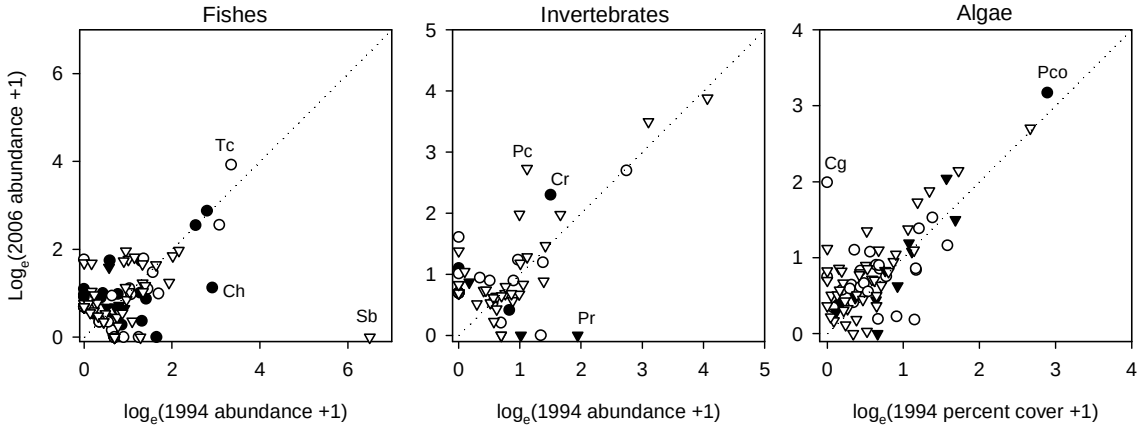

Figure 8. Changes in the abundance of species with different biogeographical affinities. Circles = warmer water species; closed triangles = cold water species; open triangles = widespread species. Dotted line represents no change. Species name abbreviations: *Trachinops caudimaculatus* (Tc), *Chromis hypsilepis* (Ch), *Seriolella brama* (Sb), *Patiriella calcar* (Pc), *Centrostephanus rodgersii* (Cr), *Patiriella regularis* (Pr), *Cystophora grevillei* (Cg), *Phyllospora comosa* (Pco).

The indicators chosen to monitor the effects of climate change reflect the expectations that warmer-water species will increase in abundance or new warmer-water species will establish. Both will reduce the percentage of individuals with cold-water affinities (or "Tasmanian & Victorian" species), and the new WW species will reduce the percentage of local species. Monitoring of *Macrocystis* and *Centrostephanus rodgersii* abundance is also considered to be important for monitoring climate change impacts, as these species have changed considerably during the last few decades (and *Centrostephanus* significantly increased during this study). Both species are considered keystone species; that is, they have the potential to substantially affect many other species in the ecosystem.

Table 5. Indicators for climate change in cold water species. *Macrocystis* data were not collected in 1994.

Indicator	Taxonomic group	1994	2006
C1 - % cold water species	Fishes	7.904	7.826
	Invertebrates	0.285	0.191
	Algae	10.743	9.247
C2 - % cold water individuals	Fishes	1.812	1.837
	Invertebrates	0.048	0.004
	Algae	10.435	9.956
C3 - Mean abundance *Macrocystis* plants			59.96
C4 - Mean abundance *Centrostephanus*		23.348	37.046

Calculation notes:

C1 = the percentage of species found at each site whose recorded (Australian) distribution does not extend beyond Tasmania and Victoria. The mean of all sites is used.

C2 = the same as C1, except calculated as the percentage of all individuals within each taxonomic group (e.g. fishes) that are species with distributions as above.

C3 = the mean number of *Macrocystis* (either *pyrifera* or *angustifolia*) plants >1 m height within a 200 x 2 m swathe at only sites at which *Macrocystis* was observed.

C4 = the mean number of *Centrostephanus rodgersii* recorded per 200 x 1 m swathe at only sites at which it was recorded in at least one of the years.

3.3 Fishing

We found numerous changes in the abundance of harvested species between 1994 and 2006, but these were only negative for finfish species. The total number of fishes observed greater than 30 cm at each site dropped substantially in most bioregions, driven largely by the decrease in the two harvested wrasse species, which are most often numerically dominant. The values of the indicators recommended to monitor fishing impacts (below) also reveal decreases in the number or mean size of many other harvested finfish species, but increases in rock lobster and abalone size and abundance indicators.

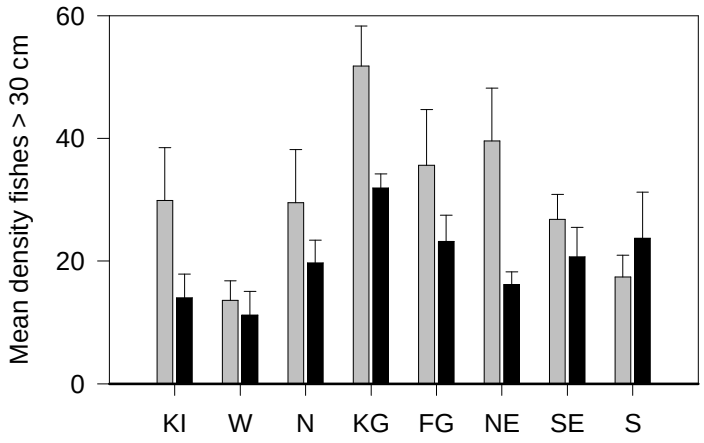

Figure 9. Mean (+ SE) density of fishes > 30 cm recorded at sites in each bioregion in 1994 (grey fill) and 2006 (black fill).

Table 6. Indicators for fishing impacts (BM = banded morwong, BT = bastard trumpeter, Wr = wrasse (only bluethroat and purple), BF = boarfish).

Fishing	Indicator	1994	2006
Abalone and rock lobster:			
F1 - *H. rubra* (abalone)	Mean size	100.169	111.532
F2 - *H. rubra*	Number legal size	4.891	7.941
F3 - *H. rubra*	Proportion legal:sub-legal	26.968	35.489
F1 - *J. edwardsii* (rock lobster)	Mean size	72.298	98.624
F2 - *J. edwardsii*	Number legal	0.145	1.763
F3 - *J. edwardsii*	Proportion legal:sub-legal	5.611	52.686
Finfish:			
F4	Size spectra slope:	-2.677	-2.903
F5	Size spectra mid-point height:	0.899	0.891

F6	Mean total biomass of BM, BT, Wr, BF (harvested reef-resident finfish) >30 cm	9031.363	5102.786
F7	Proportion of non-commercial to total indivs(>30cm)	0.346	0.363
F8 - *C. spectabilis* (banded morwong)	N >30cm	3.614	2.084
	Mean size	16.768	13.293
F9 - *L. forsteri* (bastard trumpeter)	N >30cm	2.875	3.270
	Mean size	11.454	11.692
- *L. lineata* (striped trumpeter)	N >30cm	9	0
	Mean size	10.173	9
- *N. fucicola* (purple wrasse)	N >30cm	5.584	2.923
	Mean size	9.127	8.281
- *N. tetricus* (blue-throated wrasse)	N >30cm	7.782	5.403
	Mean size	9.526	9.288
- *P. recurvirostris* (boar fish)	N >30cm	0.727	0.727
	Mean size	14.722	12.220
- *S. brama* (warehou)	N >30cm	0	0
	Mean size	7.405	
- *T. declivis* (jack mackerel)	N >30cm	71	0
	Mean size	11.541	7.255

Calculation notes:

F1 = the overall mean of the mean size of blacklip abalone or southern rock lobster at each site (within 200 x 1 m swathe) at only those sites where they were present.

F2 = the mean of the total number of legal individuals recorded at each site at only sites where the species was found in at least one of the two years.

F3 = the mean of the number of legal individuals at each site, divided by the total number of individuals at that site, at sites in which the species was present.

F4 & F5 = the mean slope and mid-point height (the y-intercept estimate when the x-axis is rescaled, as described below) of the size spectrum of all fishes for each site. The method used to plot the size spectra has been modified from that used in the literature, to more appropriately suit the size spectrum of fishes observed on Tasmanian reefs, and importantly, linearize the relationship. The log (base 10) of total number (+1) of all fishes observed in each of 9 size classes is plotted against the size class. The size classes (in inches) used are <6, 7-9, 10-12, 13-15, 16-18, 19-21, 22-24, 25-27, and 28-30. The mid-point of each of these classes (i.e. 3, 8, 11, etc.) are $\log_{10}$+1 transformed and rescaled to make the middle value = 0. This makes the new x-axis values = -0.388, -0.184, -0.046, 0.059, 0.143, 0.214, 0.275, 0.328, 0.375. The slope and Y-intercept of this regression is used at each site, and the overall means across sites are used as the indicators of the relative abundance of larger fishes and the overall community abundance respectively.

F6 = the mean of the total biomass at each site of individuals of particular species that are > 12 inches (30 cm). The species used are banded morwong, bastard trumpeter, bluethroated wrasse, purple wrasse and long-snouted boarfish and biomass estimates are calculated using existing species-specific length-weight relationships provided on www.fishbase.org

F7 = using only individuals > 12 inches, the number of individuals of non-commercial species is divided by the total number of individuals present. The mean of all sites is used as the indicator.

F8 = the mean of the total number of this species at each site that is greater than 12 inches.

F9 = the mean across sites of the mean size of each species at only those sites where it was found.

3.4 Pollution/catchment effects

Due to some incomplete algal data from the 1994 surveys, no comparisons can be made of that part of the algal community that we consider important for describing changes in the degree of pollution and/or siltation. Following examination of the current dataset and using existing knowledge of macroalgal community responses to pollution and siltation, we recommend monitoring of the following indicators with calculated current values to be used as a baseline.

Table 7. Indicators for pollution and siltation. CCA = crustose coralline algae, CB = canopy brown algae: all large browns that form a "canopy", G&R = the sum of all (non-filamentous) red and green macroalgae.

Pollution/catchment	2006
P1 - Mean G&R:CB cover:	1.055
P2 - Mean CCA:CB cover:	0.729
P3 - Mean silt on reef:	2.153

Calculation notes:

P1 = the total percentage cover of green and red macroalgae (excluding filamentous algae) is divided by the total cover of canopy-forming brown algae (see table caption) for each site. The mean of all sites is used. This indicator (and P2, below) will vary at sites with different exposures, thus comparison should only be made amongst the same sites through time.

P2 – the percentage cover of crustose coralline algae is divided by the percentage cover of canopy-forming brown algae at each site, and the mean of sites is calculated.

P3 – the mean of the percentage cover of silt that has smothered either turfing and encrusting algae and invertebrates, or bare rock.

3.5 Boat ramp study

Examination of spatial patterns in the five major targets of reef fisheries in Tasmania revealed that some, but not all, species showed a tendency for increasing either relative abundance or size with increasing distance from boat ramps (Figs. 10 & 11). Species varied in their patterns, but banded morwong, and to a lesser extent, bastard trumpeter, showed clear patterns indicative of fishing impacts that are related to the proximity to the nearest boat ramp. The greatest mean size and the greatest numbers of legal-sized individuals of both of these species occurred at more isolated sites. When the part of the east coast that receives high recreational pressure for rock lobster was considered separately, a similar pattern occurred. The number of legal lobsters at these sites was

related to the proximity of sites to boat ramps in this area, despite no equivalent pattern on a statewide scale (Fig. 12).

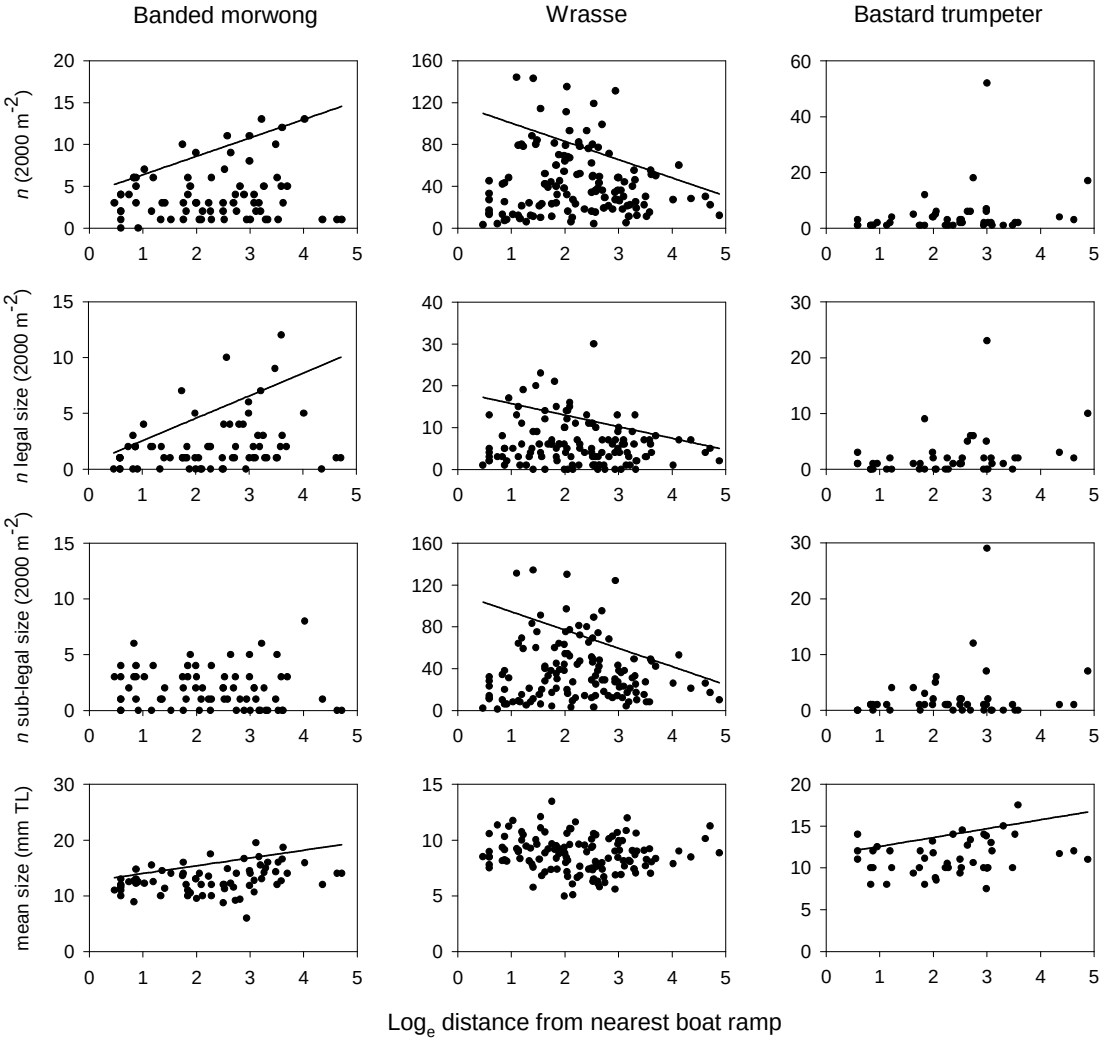

Figure 10. Banded morwong (*Cheilodactylus spectabilis*), wrasse (*Notolabrus* spp.) and bastard trumpeter (*Latridopsis forsteri*) relative abundance and mean size with the distance to the nearest boat ramp ($\log_e$ km + 1). Plotted lines represent significant relationships at the 90th percentile.

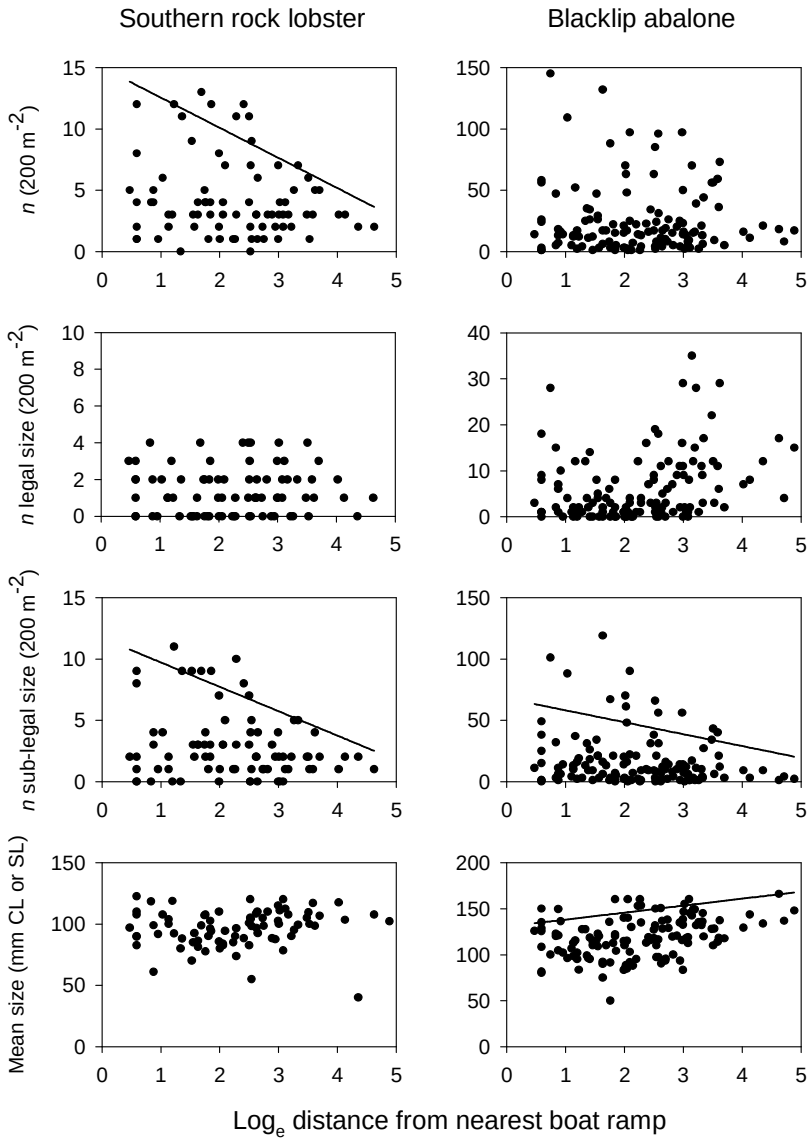

Figure 11. Southern rock lobster (*Jasus edwardsii*) and blacklip abalone (*Haliotis rubra*) relative abundance and mean size with the distance to the nearest boat ramp ($\log_e$ km + 1). Plotted lines represent significant relationships at the 90th percentile.

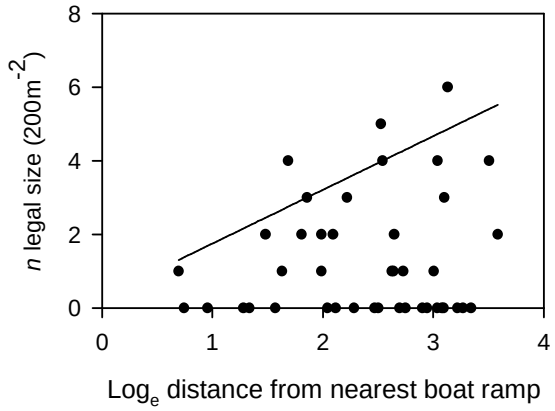

Figure 12. Relative abundance of legal-sized southern rock lobster (*Jasus edwardsii*) versus distance from the nearest boat ramp based on a subset of 43 sites on the east coast which received high recreational pressure. The plotted line represents a significant relationship at the 90th percentile (P = 0.013).

4. Discussion and recommendations

As an island State, Tasmania's nearshore marine resources have played a vital role in the social and economic development of the State. Since the Second World War there has been a rapid increase in technology which has resulted in increased pressures on the nearshore regions. Many commercial fisheries are now either fully or over-exploited and recreational fishing is undertaken by just under one third of the Tasmanian population and recreational licenses are rapidly increasing. Aquaculture is growing with more area for farm leases being requested, and urban and commercial development has seen a substantial increase in the last decade. Further impacts have occurred with the introduction of marine pests and we are beginning to see long-term changes associated with global warming.

The overall similarity of surveyed shallow rocky reef communities around Tasmania between 1994 and 2006, both at the community level and in important univariate characteristics such as species richness, was remarkable considering the substantial and increasing pressures they have experienced. Overall, there is little evidence of substantial degradation during the time interval between surveys and shallow Tasmanian reefs appear to be relatively healthy, showing few changes that would be considered negative. There were, however, important changes that occurred that may become of concern in future years should they continue. Notably, these include the increase in the relative abundance of the long-spined sea urchin *Centrostephanus rodgersii* in shallow waters, and the decrease in the relative abundance and biomass of large fishes (> 30cm), particularly the exploited wrasses and banded morwong.

C. rodgersii has enormous potential to modify marine ecosystems, forming "barrens" that support entirely different assemblages (Hill et al. 2003). These barrens have been increasing in deeper reef areas (>15 m) in the northern parts of the east coast, and effectively eliminate fisheries of commercial and recreational value where they occur. The increase in the relative abundance of *C. rodgersii* at our sites in shallow water is thus of great concern, and the recommendation of specifically using its abundance as an indicator (of climate driven changes) reflects its critical influence on the reef communities when in high abundance.

Over-exploitation is likely to have caused the decrease in large fishes, as the *Notolabrus* spp. wrasses and banded morwong make up a substantial proportion of the large fishes observed on Tasmanian reefs, and these have been increasingly exploited during the years between our surveys. We suggest that banded morwong, in particular, may be locally over-exploited in many areas, with the boat ramp study also highlighting its apparent vulnerability to localized depletion. Further investigation, and most likely management action, is therefore particularly important for this species, and monitoring of fishing impacts should closely track the harvestable abundance of this species to assess the effectiveness of any management action taken.

The few available long-term studies of climate change effects on marine communities have identified common consequences, such as poleward shifts in species ranges (Barry et al. 1995, Zacherl et al. 2003, Rivadeneira & Fernández 2005), and changes in species physiology (Hughes 2003), abundance (Sagarin et al. 1999, Smith et al. 1999, Harley et al. 2006) and ecological interactions (Davis et al. 1998, Dayton et al. 1999, Sanford 1999, Schiel et al. 2004). The latter is particularly important, since recent studies have shown that major climate-induced community shifts can result from small changes to interactions of keystone species (see Harley et al. 2006).

Although no substantial community-level changes were observed on shallow Tasmanian rocky reefs, particularly no shifts that were congruent with the increase in *Centrostephanus* relative abundance, we did observe some small changes in species' distributional limits and relative abundance. There was a decrease in relative abundance of cold water invertebrates between 1994 and 2006, and the presence of more warm water and widespread fishes and invertebrates in 2006 that were not found in the 1994 surveys.

Despite being more than a decade apart during a substantial long-term increase in sea surface temperature (SST), our surveys were undertaken either side of a peak in a cyclical decadal trend in SST (discussed in Ridgway 2007). Maximum summer SST was actually very similar in these years. We suggest that our observations of general community stability do not imply that no changes have occurred in between our surveys, but rather that community-level changes do not appear to occur in a linear fashion. A likely pattern of community change may include large phase-shifts over longer time scales than our surveys encompassed, with numerous smaller, episodic changes increasing in frequency or duration in between these larger shifts in community structure. It is therefore of great importance to maintain long-term monitoring programs of Tasmania's rocky reef systems to ensure that any future changes, which are expected to increase during next decade, are detected early and possible management strategies can be identified and implemented.

Macrocystis spp. (giant kelp) are large seaweeds, and due to their size and patchiness, their densities are not effectively estimated using a 0.25 m^2 quadrat as used for the rest of the seaweeds. Recognising this, an additional count of *Macrocystis* plants has been added to the survey methodology. Unfortunately this component of the survey methodology was not added until after the 1994 surveys, and consequently no reliable data exist on *Macrocystis* densities for that time. The use of *Macrocystis* counts in the current study has therefore also provided a rigorous Tasmanian-wide baseline for *Macrocystis*. Like *Centrostephanus*, *Macrocystis* species are key components in rocky reef assemblages, with changes in their cover capable of substantially altering community structure. Future monitoring will allow any decline in these species, which is highly possible with the expected further warming, to be recognized and quantified.

From the data collected and analysis of change over time, we have developed a set of measures (indicators) for assessment of the biological condition of inshore rocky reefs around Tasmania. Animal or plant species abundance is one of nineteen indicators recommended at a national level for the assessment of estuarine, coastal and marine

habitat condition around Australia (http://www.nlwra.gov.au/). However, it is one of the least specific and nebulous indicators compared with, for example, salinity, turbidity or chlorophyll a. Our recommended measures (indicators) of rocky reef condition provide an example of how biological condition, particularly animal and plant species abundance, can be monitored and assessed. They are specifically applicable and useful for monitoring important aspects of Tasmanian reef biota, are readily measured using underwater visual census and are easily repeatable.

Unfortunately, no comparisons can be made in this study of that part of the algal community that we consider important for assessing changes in the degree of pollution and/or siltation affecting reefs. Although we found no evidence of substantial change in algal communities statewide that may be indicative of pollution or siltation, some changes, particularly on the northwest coast, are suggestive of recovery following reduced effluent emission from the Tioxide plant and require further investigation. The indicators proposed for monitoring such impacts will allow any further recovery in these areas or degradation in others to be quantified.

Many species of red algae were pooled in these surveys (due to the current lack of accurate taxonomy and likely high endemism). Unfortunately, this means that future changes in such species as a result of climate change may go unrecognized. There is evidence from MPA monitoring of the introduced Japanese kelp, *Undaria pinnatifida*, spreading and increasing in density. However, this is not represented in this report because *U. pinnatifida* is a highly seasonal species with annual dieback in summer/autumn when our surveys were conducted. Thus, the absence of introduced algal species in the indicators for biodiversity is unfortunately misrepresentative of the true situation. Surveys would need to be undertaken in winter/spring to obtain reliable information for this species.

Whilst this resurvey of the large number of sites around Tasmania provided extremely valuable data on the current reef biota and the changes that have occurred since 1994, the value of this data set can only increase (and substantially) with every subsequent resurvey. In this regard, we consider it a priority that full resurveys (of all sites) are conducted on a decadal basis. If continued, the rigorous and long-term monitoring of Tasmanian reef biodiversity will build an extremely valuable dataset of global value, particularly as few data of this nature exist for southern hemisphere marine systems.

One shortcoming of only taking snapshots on a decadal basis, however, is the inability to track changes that occur in-between snapshots, such as summer diebacks of kelp in warmer years. As our results from the long-term monitoring of the Maria Island marine reserve (see Barrett et al. 2007 for details of this highly valuable data set) have shown, it is the annual time series that allows us to place changes examined over longer time periods in perspective. Such circumstances could easily be accounted for in future monitoring if data were collected on a more regular basis. This would provide necessary information on changes that occur at smaller to intermediate (annual) time-scales, which would assist in interpretation of observations on a larger scale (e.g. decadal and greater).

The benefits of more regular surveys are not only limited to being able to track episodic changes resulting from climate change, but also periods of recovery from events such as oil spills or substantial floods for example. Expanding the number of sites for this annual monitoring would be extremely valuable and is highly recommended.

Obviously undertaking more regular surveys of reef health involves some cost, yet obtaining a clear inter-annual time series in each region would be highly beneficial in interpreting the longer-term trends. To optimise cost benefits we suggest selecting a small core of sites in each NRM region for focused on-going annual monitoring. While reducing the scope of the surveys (i.e. monitor fewer species) is also an option, the time savings of surveying a reduced set of species does not outweigh the loss of information, and modifying the procedure would make comparison with existing data difficult. In addition, the complex inter-relationships between species would make the choice of which species to monitor very difficult. In light of this, we recommend that full monitoring of a core set of sites is the best option. Our suggestion is that 36 sites, 12 in each NRM region, be monitored using the existing survey method, on an annual basis.

We suggest that monitoring of 12 sites in the Maria Island area be continued, both because of the value of continuing the existing time-series at this location, and because of the presence of a CSIRO long-term oceanographic monitoring station. In the NRM Cradle Coast region we suggest that 12 sites in the Rocky Cape area be monitored annually, and in NRM North region, 12 sites at St Helens. St Helens is a key area in understanding the growing impacts of *Centrostephanus*.

If additional funding is available we suggest also monitoring at Bicheno. Although it is in the same bioregion as Maria Is., Bicheno consists of an entirely different habitat type (exposed coast), is an area of key importance in the spread of *Centrostephanus*, and this area has been surveyed by TAFI staff on a number of occasions already, increasing the value of continuing monitoring there.

The current study provides important knowledge of recent small changes in Tasmanian shallow reef communities, as well as capitalizing on the cyclical warming trend evident in Tasmanian coastal waters, to provide an increased understanding of the way in which whole communities respond to climate change. Combined with information from future objective monitoring using the proposed indicators, this knowledge will facilitate informed management of Tasmania's nearshore ecosystems to ensure that they continue to provide sustainable social and economic benefits to all Tasmanians, and importantly, maintenance of Tasmania's nearshore marine biodiversity.

For further details on methods, statistical analyses, results and conclusions, please see the following papers, which will all be submitted for publication in 2008:

Stuart-Smith, Rick D., Barrett, Neville S., Crawford, Christine, & Edgar, Graham J. (2007). Stability in temperate reef communities over a decadal time scale (*In preparation*).

Stuart-Smith, Rick D., Barrett, Neville S., Crawford, Christine, Edgar, Graham J., Frusher, Stewart, & Stevenson, David G. (2007) Spatial patterns in impacts of fishing on temperate rocky reefs: are fish abundance and mean size related to proximity to fisher access points? (*In revision*)

Stuart-Smith, Rick D., Crawford, Christine, Barrett, Neville S., Edgar, Graham J., Indicators for monitoring the condition of rocky reefs (*In preparation*).

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7. Appendices

Appendix 1. Fish and invertebrate abundances and algal percent cover used in analyses of changes in rocky reef communities around Tasmania between 1994 and 2006. On CD (Appendices for rocky reef communities report 2008: raw data tables).

Appendix 2. Fish and invertebrate abundances and algal percent cover recorded during surveys conducted in rocky reef habitats around Tasmania in 2006-2007. Raw data from all sites surveyed. On CD (Appendices for rocky reef communities report 2008: raw data tables).

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	FI	FI
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	2006	1994	1994	2006
Loc.Sit.Dep	0.1.10	0.1.10	0.1.5	0.1.5	0.2.5	0.2.5	0.3.5	0.3.5	0.4.10	0.4.10	0.5.5	0.5.5	0.6.5	0.6.5	0.7.10	0.7.10	0.8.5	0.8.5	0.9.10	0.9.5	10.1.5	10.1.5
Acanthaluteres spilomelanurus	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acanthaluteres vittiger	14	3	53	6	163	83	75	3	16	1	16	7	61	11	28	1	20	1	3	16	1	0
Achoerodus gouldii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	0	0	0	2	0	1	0	0	1	1	1	0	0	1	0	0	0	0	0	1	2	1
Aracana aurita	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0
Aracana ornata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	5	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	0	177	0	0	3	72	0	0	0	0	10	15	0	0	142	0	0	0
Caesioperca rasor	2	3	0	0	254	85	0	0	3	2	0	0	2	0	10	0	0	0	3	12	0	1
Cheilodactylus nigripes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cheilodactylus spectabilis	4	11	3	8	0	4	5	5	20	2	0	0	3	5	17	10	2	12	4	10	0	0
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Diodon nicthemerus	0	0	0	1	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1
Dotalabrus aurantiacus	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Enoplosus armatus	0	1	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0
Eubalichthys gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gerres subfasciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
Hypoplectrodes maccullochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	6	0	7	0	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	0	0	0	0	0	0
Meuschenia australis	0	0	0	1	1	1	0	1	0	11	1	5	6	1	0	0	0	0	1	0	0	1
Meuschenia flavolineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	FI	FI
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	2006	1994	1994	2006
Loc.Sit.Dep	0.1.10	0.1.10	0.1.5	0.1.5	0.2.5	0.2.5	0.3.5	0.3.5	0.4.10	0.4.10	0.5.5	0.5.5	0.6.5	0.6.5	0.7.10	0.7.10	0.8.5	0.8.5	0.9.10	0.9.5	10.1.5	10.1.5
Meuschenia freycineti	0	0	0	0	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0
Meuschenia venusta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	1	0	0	0	8	0	1	1	0	0	0	2	58	12	0	0	0	0	0	10	0	2
Notolabrus fucicola	15	16	18	37	40	8	8	35	40	7	27	12	6	19	18	19	6	52	12	18	6	9
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	34	20	13	11	37	10	7	16	41	4	7	15	27	21	0	3	1	3	6	15	61	49
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0
Odax cyanomelas	0	1	10	0	0	1	0	0	7	3	1	3	0	2	1	1	1	0	4	2	3	0
Omegophora armilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Pempheris multiradiata	19	10	7	0	40	5	3	23	51	0	0	0	0	0	33	0	1	0	12	214	0	0
Pentaceropsis recurvirostris	0	1	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	1	0	1	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	22	6	0	14	1	4	0	4	6	1	1	1	6	3	1	3	1	0	3	3	8	0
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	8	7	0	1	1	0	4	2	28	3	0	0	7	1	24	8	7	1	50	12	0	0
Pseudophycis spp.	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpis aequipinnis	0	0	1	10	0	0	0	0	0	1	0	0	0	0	4	1	0	0	0	9	0	0
Scorpis lineolata	0	0	0	24	0	13	0	0	2	28	0	0	0	0	0	0	0	4	6	0	0	0
Seriolella brama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Siphonognathus beddomei	0	0	0	0	2	1	0	0	0	0	0	1	28	20	0	0	0	0	0	0	6	53
Siphonognathus tanyourus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Stigmatopora nigra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thamnaconus degeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	16	4	6	0	100	477	20	0	3	20	0	0	119	286	134	0	0	0	93	8	0	0
Upeneichthys vlamingii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1
Urolophus cruciatus	0	2	0	0	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	1	0	0	2	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2

bioregion	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	KG	KG	KG	KG	KG	KG	KG	KG
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	10.2.5	10.2.5	10.3.5	10.3.5	10.4.5	10.4.5	10.5.5	10.5.5	10.6.5	10.6.5	10.7.5	10.7.5	10.8.5	10.8.5	11.1.5	11.1.5	11.10.5	11.10.5	11.11.5	11.11.5	11.12.5	11.12.5
Acanthaluteres spilomelanurus	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acanthaluteres vittiger	0	2	12	2	22	30	3	3	0	0	0	0	2	30	0	9	3	2	12	15	9	5
Achoerodus gouldii	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	0	0	2	8	5	1	11	2	0	0	0	3	3	3	0	1	2	0	4	6	3	4
Aracana aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aracana ornata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	2	0
Aulopus purpurissatus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	4
Caesioperca rasor	0	0	58	14	55	434	18	63	77	265	20	232	11	116	46	75	333	594	540	203	1139	57
Cheilodactylus nigripes	0	0	1	4	4	0	3	5	7	10	9	6	10	9	2	3	13	10	13	11	19	13
Cheilodactylus spectabilis	0	0	2	2	9	3	7	2	0	0	2	2	1	1	2	2	0	0	4	7	8	0
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	57	20	3	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diodon nicthemerus	1	0	0	0	0	0	0	0	1	0	0	0	10	0	0	0	2	2	2	0	1	0
Dotalabrus aurantiacus	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	2	1	5	1	0	0
Enoplosus armatus	0	0	0	6	2	7	4	0	5	4	2	6	1	12	1	2	2	5	1	1	6	0
Eubalichthys gunnii	6	0	0	0	0	2	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Gerres subfasciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	0	1	1	4	3	7	9	4	15	4	5	5	14	2	6	4	11	1	7	20	12
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes maccullochi	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	3
Latridopsis forsteri	0	0	0	0	2	1	0	0	0	0	0	0	4	3	2	1	0	0	0	0	0	0
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	0	0	0	0	0	5	0	1	0	1	0	0	0	3	0	1	0	0	0	1	0	0
Meuschenia flavolineata	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	KG	KG	KG	KG	KG	KG	KG	KG
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	10.2.5	10.2.5	10.3.5	10.3.5	10.4.5	10.4.5	10.5.5	10.5.5	10.6.5	10.6.5	10.7.5	10.7.5	10.8.5	10.8.5	11.1.5	11.1.5	11.10.5	11.10.5	11.11.5	11.11.5	11.12.5	11.12.5
Meuschenia freycineti	0	0	1	0	5	0	6	2	5	0	5	0	7	1	0	0	1	1	9	0	1	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	10	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia venusta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	9	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Notolabrus fucicola	0	0	72	77	185	35	78	51	5	5	56	13	13	21	12	12	12	4	41	36	32	25
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3
Notolabrus tetricus	41	7	15	20	111	24	47	28	96	117	109	86	140	74	124	85	143	61	117	103	80	111
Odax acroptilus	0	0	0	0	0	1	0	0	0	0	1	1	1	0	2	0	2	1	3	0	4	0
Odax cyanomelas	0	0	27	14	24	12	81	22	1	1	49	4	6	7	6	26	11	8	25	9	10	11
Omegophora armilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	1	0	0	0	0	0	4	1	0	0	3	0	1	0	2	3	5	4	5	7
Parma victoriae	7	0	1	0	0	1	0	0	6	3	2	2	1	3	0	0	3	3	2	1	1	2
Pempheris multiradiata	7	0	0	0	0	4	0	0	1	0	0	0	0	0	1	1	1	2	30	25	6	6
Pentaceropsis recurvirostris	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	1	1	1	0	1	0	1	2	4	2	3	1	6	0	2	0	5	0	4	0	4	0
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	0	3	0	0	4	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
Pseudophycis spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpis aequipinnis	0	0	12	16	32	6	13	16	21	3	0	0	12	20	1	20	2	19	15	87	35	28
Scorpis lineolata	0	0	0	4	0	0	0	0	0	0	0	0	7	12	0	0	0	0	0	3	0	10
Seriolella brama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	10	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	19	1	0	0
Siphonognathus tanyourus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stigmatopora nigra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thamnaconus degeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	0	0	2	33	0	406	0	0	0	0	0	0	0	0	0	0	74	203	38	112	25	0
Upeneichthys vlamingii	0	0	0	0	0	4	0	0	6	2	0	3	0	1	1	2	0	0	33	4	3	0
Urolophus cruciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

bioregion	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	11.2.5	11.2.5	11.3.5	11.3.5	11.4.5	11.4.5	11.7.5	11.7.5	11.8.5	11.8.5	11.9.5	11.9.5	13.1.10	13.1.10	13.1.5	13.1.5	13.2.5	13.2.5	13.3.10	13.3.10	14.1.5	14.1.5
Acanthaluteres spilomelanurus	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Acanthaluteres vittiger	35	23	49	7	6	10	32	11	15	6	7	2	39	6	122	1	20	2	27	46	20	5
Achoerodus gouldii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	1	1	0	1	2	1	0	0	2	0	2	0	0	0	2	1	1	0	0	0	0	0
Aracana aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	0	0
Aracana ornata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	61	0	0	0	0	0	0	15	0	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	170	0	36	0	0	0	0	0	0	0	0	0	0	0	7	7	0	0
Caesioperca rasor	210	97	80	578	734	74	1744	1589	70	223	10	78	0	0	0	0	0	0	2	2	0	1
Cheilodactylus nigripes	15	19	6	2	23	12	26	12	4	2	1	1	0	0	0	0	0	0	0	0	0	0
Cheilodactylus spectabilis	0	0	2	0	5	0	4	0	5	2	1	1	3	5	4	3	7	0	3	2	0	3
Chromis hypsilepis	82	0	32	0	55	2	64	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diodon nicthemerus	2	0	0	1	0	0	1	0	0	0	0	0	0	0	3	1	0	0	2	1	0	1
Dotalabrus aurantiacus	2	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	1	0	0	0	2
Enoplosus armatus	0	1	3	3	8	3	8	10	2	0	2	1	0	1	0	0	0	0	0	0	0	0
Eubalichthys gunnii	1	0	0	0	2	0	6	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gerres subfasciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	1	0	0	4	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Girella zebra	8	1	4	13	5	5	16	11	1	8	3	3	0	0	1	0	0	0	0	0	0	0
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes maccullochi	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	1	3	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	1
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	1	0	0	0	0	0	1	0	0	0	0	0	2	0	1	5	0	0	4	0	0	0
Meuschenia flavolineata	0	0	1	0	1	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	11.2.5	11.2.5	11.3.5	11.3.5	11.4.5	11.4.5	11.7.5	11.7.5	11.8.5	11.8.5	11.9.5	11.9.5	13.1.10	13.1.10	13.1.5	13.1.5	13.2.5	13.2.5	13.3.10	13.3.10	14.1.5	14.1.5
Meuschenia freycineti	3	1	0	0	3	0	6	3	4	0	3	0	0	0	0	0	0	0	0	0	10	0
Meuschenia hippocrepis	0	0	0	0	2	0	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia scaber	2	0	2	0	4	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia venusta	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0
Notolabrus fucicola	12	15	20	8	46	19	48	36	33	7	35	15	4	7	14	20	15	5	5	3	12	16
Notolabrus gymnogenis	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	113	80	106	89	164	49	54	51	20	16	30	14	5	7	5	2	2	0	0	5	1	11
Odax acroptilus	0	0	2	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax cyanomelas	14	9	25	13	11	7	7	10	7	10	16	28	3	1	12	8	0	0	0	0	0	0
Omegophora armilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophthalmolepis lineolata	0	0	1	3	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	13	10	4	0	12	0	24	64	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Parma victoriae	1	1	0	1	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	0	0	100	0	0	2	0	3	7	0	0	59	9	31	0	20	0	163	5	0	0
Pentaceropsis recurvirostris	0	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	7	2	4	1	8	46	5	0	1	0	0	0	1	1	1	0	1	0	4	4	0	1
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	3	0	1	0	8	0	3	0	0	2	0	0	0	5	1	0	0	1	9	2	0	1
Pseudophycis spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Scorpis aequipinnis	6	29	0	6	17	3	29	24	0	1	5	2	0	0	0	0	0	0	1	0	0	0
Scorpis lineolata	0	0	0	0	0	22	5	0	0	0	0	0	0	4	0	1	0	0	0	76	0	1
Seriolella brama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	1	11	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Siphonognathus tanyourus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stigmatopora nigra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thamnaconus degeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	36	36	14	90	23	92	31	495	0	7	0	0	0	0	0	0	0	0	0	5	0	2
Upeneichthys vlamingii	6	4	15	10	2	7	5	3	1	7	1	0	0	0	0	0	1	0	0	0	0	0
Urolophus cruciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	1

bioregion	NE	NE	NE	NE	NE	NE	S	S	S	S	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	14.2.5	14.2.5	14.3.5	14.3.5	14.4.5	14.4.5	16.4.5	16.4.5	16.5.5	16.5.5	17.1.5	17.1.5	17.2.5	17.2.5	17.3.10	17.3.10	17.3.5	17.3.5	17.4.10	17.4.10	17.4.5	17.4.5
Acanthaluteres spilomelanurus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0
Acanthaluteres vittiger	61	18	57	261	2	23	0	0	0	0	6	4	3	2	3	4	11	12	11	15	14	17
Achoerodus gouldii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	0	0	0	0	0	0	1	2	0	1	0	1	9	0	1	1	0	0	0	0	0	0
Aracana aurita	0	0	0	0	1	1	0	3	1	0	0	0	0	1	0	0	0	1	0	0	0	2
Aracana ornata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	37	0	0	9	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Caesioperca rasor	0	0	64	0	2	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cheilodactylus nigripes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cheilodactylus spectabilis	0	0	11	0	4	2	0	0	0	0	0	6	12	10	2	6	1	4	0	0	0	0
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
Diodon nicthemerus	0	0	14	1	8	0	1	0	0	6	0	0	0	0	0	0	0	0	0	0	0	1
Dotalabrus aurantiacus	0	4	1	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	6	1	4	1
Enoplosus armatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gerres subfasciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	17
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes maccullochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	10	1	1	0	5	17	2	2	0	0	1	1	0	0	1	1	0	0	0	1
Latris lineata	0	0	0	0	0	0	25	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	0	0	6	0	1	0	0	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0
Meuschenia flavolineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	NE	NE	NE	NE	NE	NE	S	S	S	S	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	14.2.5	14.2.5	14.3.5	14.3.5	14.4.5	14.4.5	16.4.5	16.4.5	16.5.5	16.5.5	17.1.5	17.1.5	17.2.5	17.2.5	17.3.10	17.3.10	17.3.5	17.3.5	17.4.10	17.4.10	17.4.5	17.4.5
Meuschenia freycineti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia venusta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Neoodax balteatus	0	0	6	4	4	26	0	1	0	0	0	0	0	0	0	15	0	4	39	44	73	296
Notolabrus fucicola	15	18	28	24	7	26	30	63	55	23	13	52	64	36	14	21	32	40	20	2	16	31
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	0	18	27	6	2	18	6	29	4	0	0	0	1	8	1	3	0	0	33	10	29	48
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax cyanomelas	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	0	4	1	0	2	3
Omegophora armilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	0	16	0	8	61	0	0	0	0	2	0	1	0	1	0	0	0	0	0	43	5
Pentaceropsis recurvirostris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0
Pictilabrus laticlavius	0	1	8	2	1	8	0	0	0	0	2	4	1	0	0	0	0	1	11	8	26	16
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	0	12	0	4	8	0	6	0	1	0	0	0	5	2	3	0	0	18	1	10	1
Pseudophycis spp.	0	0	2	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0
Scorpis aequipinnis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0
Scorpis lineolata	0	0	5	5	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
Seriolella brama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	2	6	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	8	1	6	9
Siphonognathus tanyourus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stigmatopora nigra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thamnaconus degeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	0	0	46	0	70	58	0	0	0	0	0	0	0	0	2	0	0	0	351	331	420	560
Upeneichthys vlamingii	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
Urolophus cruciatus	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1
Urolophus paucimaculatus	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4

bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	S	S	S	S	SE	SE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	17.5.5	17.5.5	17.6.5	17.6.5	17.7.10	17.7.10	17.7.5	17.7.5	17.8.10	17.8.10	17.8.5	17.8.5	18.1.5	18.1.5	18.2.5	18.2.5	18.3.10	18.3.10	18.4.10	18.4.10	18.4.5	18.4.5
Acanthaluteres spilomelanurus	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0
Acanthaluteres vittiger	21	1	6	6	0	12	3	5	0	13	1	267	7	3	1	1	2	2	0	0	0	0
Achoerodus gouldii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	1	0
Aracana aurita	0	1	1	0	0	1	0	1	0	0	0	0	0	0	1	0	0	4	1	0	0	0
Aracana ornata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	0	0	0	0	5	0	2	0	0	0	0	0	0	0	0	0	0	0
Caesioperca rasor	0	0	0	0	3	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Cheilodactylus nigripes	0	0	0	0	0	0	0	0	1	1	1	2	0	0	0	0	0	0	0	0	0	0
Cheilodactylus spectabilis	2	0	2	5	1	6	3	5	0	2	0	4	0	1	5	1	11	0	1	0	2	3
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diodon nicthemerus	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	2	1	1	0	0	0	0
Dotalabrus aurantiacus	0	0	0	0	0	0	0	0	2	2	1	1	0	0	1	1	0	0	0	2	0	0
Enoplosus armatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gerres subfasciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes maccullochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	2	5	0	58	1	4	1	7	3	14	0	0	1	0	0	3	1	0	0	24	3
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Meuschenia australis	1	0	0	0	0	0	0	1	0	1	2	0	0	0	1	1	5	3	2	0	0	0
Meuschenia flavolineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**S**	**S**	**S**	**S**	**SE**	**SE**
Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
Loc.Sit.Dep	**17.5.5**	**17.5.5**	**17.6.5**	**17.6.5**	**17.7.10**	**17.7.10**	**17.7.5**	**17.7.5**	**17.8.10**	**17.8.10**	**17.8.5**	**17.8.5**	**18.1.5**	**18.1.5**	**18.2.5**	**18.2.5**	**18.3.10**	**18.3.10**	**18.4.10**	**18.4.10**	**18.4.5**	**18.4.5**
Meuschenia freycineti	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia venusta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	0	0	1	10	2	2	1	6	5	8	13	153	1	0	0	0	0	0	0	0	0	0
Notolabrus fucicola	34	21	8	16	16	29	32	20	7	11	13	15	20	10	18	24	28	31	22	7	26	17
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	7	5	3	5	24	14	3	5	24	22	13	30	25	17	24	25	7	15	63	55	3	17
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax cyanomelas	1	0	0	1	0	1	1	1	0	0	1	3	0	1	0	0	3	1	0	0	0	0
Omegophora armilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	0	34	99	0	4	0	0	1	401	2	101	0	0	0	0	2	0	0	0	0	0
Pentaceropsis recurvirostris	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	1	0	0	1	1	5	0	2	8	3	6	8	2	1	3	5	1	1	11	3	1	1
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	6	0	0	0	10	6	1	1	55	10	11	1	0	0	0	0	5	0	11	6	0	3
Pseudophycis spp.	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0
Scorpis aequipinnis	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Scorpis lineolata	0	0	0	0	0	1	0	2	0	0	0	6	0	0	0	0	1	0	0	0	0	0
Seriolella brama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus tanyourus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stigmatopora nigra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thamnaconus degeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	0	0	0	12	19	40	0	0	228	478	126	1432	0	0	0	30	20	0	0	0	0	0
Upeneichthys vlamingii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus cruciatus	0	0	25	4	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	1	0	6	0	0	0	0	0	0	0	0	0	0

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	19.1.5	19.1.5	19.2.5	19.2.5	19.3.10	19.3.10	19.3.5	19.3.5	19.4.5	19.4.5	19.5.10	19.5.10	19.5.5	19.5.5	19.6.5	19.6.5	19.7.5	19.7.5	2.1.5	2.1.5	2.2.5	2.2.5
Acanthaluteres spilomelanurus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Acanthaluteres vittiger	29	8	4	9	1	1	5	11	5	36	1	6	0	4	6	4	6	5	75	23	9	7
Achoerodus gouldii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	2	0	7	0	0	0	1	3	3	0	0	2	3	1	1	0	2	0	0	0	0	0
Aracana aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	2
Aracana ornata	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	5	0	48	0	27	0	0	1	13	0	0	0	0	2	0	2	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca rasor	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	150
Cheilodactylus nigripes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cheilodactylus spectabilis	0	1	6	0	8	3	6	1	2	4	16	6	11	6	3	2	6	2	3	0	0	2
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Diodon nicthemerus	0	0	2	0	0	0	0	0	0	1	1	10	0	1	1	0	2	0	0	0	1	1
Dotalabrus aurantiacus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3	3
Enoplosus armatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gerres subfasciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	24	39	0	0	0	0	0	1	0	34	1	0	0	1	2	0	1	0	0	0	0	9
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes maccullochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	2	2	1	5	0	0
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	7	0	2	0	0	1	0	2	1	1	2	0	0	1	1	2	0	1	5	2	4	3
Meuschenia flavolineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	19.1.5	19.1.5	19.2.5	19.2.5	19.3.10	19.3.10	19.3.5	19.3.5	19.4.5	19.4.5	19.5.10	19.5.10	19.5.5	19.5.5	19.6.5	19.6.5	19.7.5	19.7.5	2.1.5	2.1.5	2.2.5	2.2.5
Meuschenia freycineti	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia venusta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	9	24
Notolabrus fucicola	22	29	17	8	1	15	2	8	7	1	23	10	71	39	6	0	7	3	40	43	62	17
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	0	2	0	2	5	8	0	3	1	3	7	3	3	3	0	0	51	3	13	9	74	64
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax cyanomelas	2	6	5	1	7	0	11	6	6	4	1	3	7	0	3	1	0	0	2	1	0	0
Omegophora armilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Pempheris multiradiata	0	0	0	0	0	40	0	0	2	0	0	5	0	0	1	0	379	14	1	0	121	9
Pentaceropsis recurvirostris	0	1	1	1	0	1	1	4	1	1	1	0	0	0	0	0	0	0	0	0	0	1
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	1	1	0	0	2	1	0	1	2	0	0	1	0	0	0	0	3	3	2	0	16	23
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	1	0	0	6	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	2
Pseudophycis spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
Scorpis aequipinnis	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpis lineolata	0	0	4	5	0	0	10	7	5	95	0	0	30	0	0	0	1	0	0	0	0	0
Seriolella brama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0
Siphonognathus tanyourus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stigmatopora nigra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thamnaconus degeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	0	0	0	0	20	0	50	0	85	0	0	0	0	0	0	0	0	0	0	7	231	1758
Upeneichthys vlamingii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Urolophus cruciatus	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	10	0	0	1	5	16
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	S	S	S	S	S	S	S	S	S	S	S	S
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	2.3.5	2.3.5	2.4.5	2.4.5	2.5.5	2.5.5	2.6.5	2.6.5	2.7.5	2.7.5	20.1.5	20.1.5	20.10.10	20.10.10	20.11.10	20.11.10	20.12.10	20.12.10	20.13.10	20.13.10	20.2.10	20.2.10
Acanthaluteres spilomelanurus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acanthaluteres vittiger	31	216	27	40	45	40	6	1	6	2	0	0	0	0	0	0	0	0	2	1	0	43
Achoerodus gouldii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	0	0	0	0	0	0	0	0	0	0	2	7	2	0	0	0	0	1	1	2	0	3
Aracana aurita	0	2	2	1	1	0	0	2	0	0	0	0	0	0	1	3	0	0	0	0	2	3
Aracana ornata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	2	0	0
Caesioperca rasor	0	0	0	0	2	0	24	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0
Cheilodactylus nigripes	0	1	1	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cheilodactylus spectabilis	2	0	2	1	0	0	0	0	0	0	2	3	0	1	1	1	1	0	7	13	1	1
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diodon nicthemerus	0	0	0	0	0	1	1	0	0	0	5	0	2	0	0	0	0	0	1	0	0	0
Dotalabrus aurantiacus	0	5	0	4	4	7	2	2	1	4	0	0	0	0	0	0	0	0	0	0	0	0
Enoplosus armatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gerres subfasciatus	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes maccullochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	3	0	0	0	0	0	0	0	0	0	1	0	0	0	9	4	8	0	1	0	0	2
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0
Meuschenia australis	9	4	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	2	0	1	0
Meuschenia flavolineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	S	S	S	S	S	S	S	S	S	S	S	S
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	2.3.5	2.3.5	2.4.5	2.4.5	2.5.5	2.5.5	2.6.5	2.6.5	2.7.5	2.7.5	20.1.5	20.1.5	20.10.10	20.10.10	20.11.10	20.11.10	20.12.10	20.12.10	20.13.10	20.13.10	20.2.10	20.2.10
Meuschenia freycineti	12	2	0	0	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia venusta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	2	5	0	0	6	52	1	3	1	19	0	0	0	0	0	2	0	0	0	0	0	0
Notolabrus fucicola	3	10	3	5	12	18	9	6	2	1	77	44	32	21	9	14	38	56	33	27	12	7
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	13	23	35	16	83	75	154	70	53	33	2	7	0	1	5	14	1	4	1	0	0	4
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax cyanomelas	4	4	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Omegophora armilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	10	3	18	120	2	23	65	0	30	0	0	0	0	0	0	0	0	0	0	32	100
Pentaceropsis recurvirostris	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Pictilabrus laticlavius	0	3	13	19	9	24	23	5	18	2	0	0	0	0	0	1	0	0	0	0	1	1
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	0	1	0	0	0	0	1	0	0	0	1	2	2	2	6	0	0	16	9	1	1
Pseudophycis spp.	1	0	1	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	1	0
Scorpis aequipinnis	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	6	0	0
Scorpis lineolata	0	0	0	61	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seriolella brama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	2	2	1	6	34	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus tanyourus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stigmatopora nigra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thamnaconus degeni	0	0	0	0	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	12	0	46	283	2	58	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Upeneichthys vlamingii	0	0	0	0	5	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus cruciatus	0	0	1	1	3	0	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	1	5	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	S	S	S	S	S	S	S	S	S	S	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	20.5.10	20.5.10	20.6.10	20.6.10	20.7.10	20.7.10	20.8.10	20.8.10	20.9.10	20.9.10	21.13.5	21.13.5	21.4.5	21.4.5	21.5.5	21.5.5	21.6.5	21.6.5	21.7.5	21.7.5	21.8.5	21.8.5
Acanthaluteres spilomelanurus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acanthaluteres vittiger	0	0	0	0	0	0	0	0	0	0	0	0	1	8	34	1	0	3	1	0	4	1
Achoerodus gouldii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	1	2	1	1	1	1	0	0	0	3	0	0	3	0	0	0	0	1	0	3	0	0
Aracana aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Aracana ornata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	6	46	0	0	126	0	5	50	20	22
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca rasor	0	0	0	0	0	0	0	0	0	0	0	0	32	7	0	0	0	0	0	0	0	0
Cheilodactylus nigripes	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	1	1	4	0	2	0	0
Cheilodactylus spectabilis	8	1	1	3	0	0	0	0	0	1	0	0	3	3	2	0	0	2	0	4	2	0
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diodon nicthemerus	0	0	0	0	1	0	0	0	0	0	2	12	1	1	2	0	0	0	2	1	1	0
Dotalabrus aurantiacus	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	1	0	1	0	4
Enoplosus armatus	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	0
Eubalichthys gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gerres subfasciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	0	0	0	0	0	0	0	0	0	0	2	4	2	0	0	0	2	0	18	0	0
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Hypoplectrodes maccullochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	2	0	0	0	0	17	0	3	0	0	0	0	1	0	0	0	0	0	7	0
Latris lineata	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	0	0	0	0	1	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	1	0
Meuschenia flavolineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	S	S	S	S	S	S	S	S	S	S	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	20.5.10	20.5.10	20.6.10	20.6.10	20.7.10	20.7.10	20.8.10	20.8.10	20.9.10	20.9.10	21.13.5	21.13.5	21.4.5	21.4.5	21.5.5	21.5.5	21.6.5	21.6.5	21.7.5	21.7.5	21.8.5	21.8.5
Meuschenia freycineti	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	1	0	0	5	0	0	0	0	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia venusta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0
Notolabrus fucicola	23	18	23	18	28	25	12	8	28	28	2	0	4	14	2	0	1	17	2	27	8	4
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	6	1	3	3	2	0	0	4	0	2	31	100	7	6	3	4	10	69	1	92	3	11
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1
Odax cyanomelas	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	2	7	0	6	0	0
Omegophora armilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	1	0	1	0	0
Pempheris multiradiata	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	50	28	1	0	2	0	0
Pentaceropsis recurvirostris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Pictilabrus laticlavius	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	1	1	1	0	1	0	0
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	6	0	2	0	1	2	0	29	0	15	0	1	0	0	0	0	0	0	0	0	0	0
Pseudophycis spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpis aequipinnis	0	0	0	0	0	2	0	14	0	0	2	0	0	0	0	0	3	0	0	54	0	0
Scorpis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	62	0	0	0	0
Seriolella brama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	0	0	0	0	0	0	0	0	0	0	27	0	3	0	0	1	6	0	0	0	0	0
Siphonognathus tanyourus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stigmatopora nigra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thamnaconus degeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	0	0	0	0	0	0	0	0	0	0	69	0	0	0	0	0	0	0	0	0	0	0
Upeneichthys vlamingii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	2	0	0
Urolophus cruciatus	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	FI	FI	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	W	W	W	W
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	21.9.5	21.9.5	22.1.5	22.1.5	22.2.5	22.2.5	22.3.5	22.3.5	22.4.5	22.4.5	22.5.5	22.5.5	22.6.5	22.6.5	22.7.5	22.7.5	22.8.5	22.8.5	23.1.5	23.1.5	23.2.5	23.2.5
Acanthaluteres spilomelanurus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	5	64	0	0	0	0
Acanthaluteres vittiger	0	0	36	0	1	0	1	0	1	0	0	0	0	0	2	0	2	1	0	0	0	0
Achoerodus gouldii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	2	0
Aracana aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1	0	0
Aracana ornata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca rasor	1	16	0	0	0	0	1	42	0	0	11	0	0	0	0	0	0	0	0	0	0	0
Cheilodactylus nigripes	9	6	1	8	0	0	0	6	15	10	3	2	7	0	9	8	0	0	0	0	0	0
Cheilodactylus spectabilis	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diodon nicthemerus	4	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
Dotalabrus aurantiacus	0	3	1	0	0	0	1	4	3	1	3	4	3	0	0	0	0	5	0	0	0	0
Enoplosus armatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys gunnii	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gerres subfasciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	8	0	1	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes maccullochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	1	0	1
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	0	0	0	0	0	5	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1
Meuschenia flavolineata	1	7	0	0	0	0	1	7	8	6	0	0	0	0	5	0	0	0	0	0	0	0

bioregion	FI	FI	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	W	W	W	W
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	21.9.5	21.9.5	22.1.5	22.1.5	22.2.5	22.2.5	22.3.5	22.3.5	22.4.5	22.4.5	22.5.5	22.5.5	22.6.5	22.6.5	22.7.5	22.7.5	22.8.5	22.8.5	23.1.5	23.1.5	23.2.5	23.2.5
Meuschenia freycineti	1	0	0	0	0	5	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia hippocrepis	1	47	0	0	0	0	0	0	21	12	0	0	0	0	0	6	0	0	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia venusta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	0	0	3	4	0	0	2	0	1	0	0	1	5	0	5	8	2	9	0	0	0	0
Notolabrus fucicola	0	0	0	1	0	0	6	1	1	4	1	0	1	0	1	2	4	0	4	6	7	4
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	53	103	22	87	8	23	47	70	71	51	87	79	25	10	37	34	16	16	18	7	20	14
Odax acroptilus	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0
Odax cyanomelas	1	0	0	0	0	1	0	1	4	3	0	0	0	0	3	3	0	1	0	0	0	2
Omegophora armilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	3	4	0	21	0	0	1	4	8	7	1	1	0	0	1	3	2	0	0	0	0	0
Pempheris multiradiata	3	0	0	22	0	0	0	0	2	0	0	0	480	1037	120	0	0	0	0	0	0	0
Pentaceropsis recurvirostris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	3	0	0	12	1	4	3	9	15	14	8	5	4	9	3	8	2	2	0	0	0	0
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis spp.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
Scorpis aequipinnis	7	14	0	0	0	0	0	5	11	1	0	0	0	0	9	2	1	0	0	0	0	0
Scorpis lineolata	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Seriolella brama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	50	9	1	0	2	1	3	0	22	1	11	0	19	0	18	1	7	2	0	0	0	0
Siphonognathus tanyourus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stigmatopora nigra	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thamnaconus degeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	33	175	20	196	1	44	6	272	133	855	242	101	25	0	94	225	0	0	0	0	0	0
Upeneichthys vlamingii	0	0	0	12	0	0	0	3	3	1	0	1	0	0	1	0	0	6	0	0	0	0
Urolophus cruciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	SE	SE	SE	SE	SE	SE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	23.3.10	23.3.10	24.1.10	24.1.10	24.1.5	24.1.5	24.2.5	24.2.5	24.3.5	24.3.5	24.4.10	24.4.10	24.5.10	24.5.10	24.6.5	24.6.5	4.1.5	4.1.5	4.2.5	4.2.5	4.3.5	4.3.5
Acanthaluteres spilomelanurus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acanthaluteres vittiger	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	16	8	282	0	4
Achoerodus gouldii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	0	0	0	0	1	0	0	0	2	1	0	0	4	1	1	0	1	1	0	0	0	1
Aracana aurita	1	1	1	2	0	1	0	8	0	1	2	2	0	0	0	1	0	8	1	17	5	2
Aracana ornata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca rasor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cheilodactylus nigripes	0	0	2	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0
Cheilodactylus spectabilis	0	0	3	1	2	0	1	0	3	3	2	2	0	0	0	0	0	0	0	0	3	3
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diodon nicthemerus	0	0	3	0	0	0	1	5	0	0	0	0	1	0	0	0	2	0	1	3	0	3
Dotalabrus aurantiacus	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	2	1
Enoplosus armatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gerres subfasciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes maccullochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	6	2	0	0	12	0	1	0	3	1	0	0	0	0	5	0	4	0	4
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia flavolineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	SE	SE	SE	SE	SE	SE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	23.3.10	23.3.10	24.1.10	24.1.10	24.1.5	24.1.5	24.2.5	24.2.5	24.3.5	24.3.5	24.4.10	24.4.10	24.5.10	24.5.10	24.6.5	24.6.5	4.1.5	4.1.5	4.2.5	4.2.5	4.3.5	4.3.5
Meuschenia freycineti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia venusta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	18	88	0	1
Notolabrus fucicola	0	4	30	12	81	67	88	57	34	49	116	79	70	4	33	32	0	2	5	7	13	33
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	23	32	12	4	5	1	3	3	3	2	4	3	0	1	0	6	22	50	39	71	5	31
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax cyanomelas	3	2	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1
Omegophora armilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	154	0	42	1	0
Pentaceropsis recurvirostris	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	1	0	8	2	0	0	0	0	0	0	0	0	0	0	0	0	33	16	29	15	9	2
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	0	31	35	4	1	2	28	4	4	50	23	18	0	0	0	0	0	0	0	2	0
Pseudophycis spp.	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Scorpis aequipinnis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpis lineolata	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seriolella brama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	5	2	1
Siphonognathus tanyourus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stigmatopora nigra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thamnaconus degeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183	0	172	39	509
Upeneichthys vlamingii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus cruciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0

bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	N	N	N	N	N	N	N	N
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	4.4.5	4.4.5	6.1.5	6.1.5	6.2.5	6.2.5	6.3.5	6.3.5	6.4.10	6.4.5	6.5.5	6.5.5	6.6.5	6.6.5	7.1.5	7.1.5	7.2.5	7.2.5	7.3.5	7.3.5	7.4.5	7.4.5
Acanthaluteres spilomelanurus	0	0	0	0	0	1	0	1	0	0	0	0	10	0	0	0	0	0	2	0	0	0
Acanthaluteres vittiger	1	0	0	0	3	1	0	4	5	3	2	0	5	2	27	0	29	0	3	0	2	1
Achoerodus gouldii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	0	1	0	0	2	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0
Aracana aurita	1	3	0	1	0	4	0	3	2	18	0	0	3	2	0	0	0	0	0	0	0	0
Aracana ornata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	0	0	0	0	100	0	0	4	1	0	0	0	0	0	0	0	0	0
Caesioperca rasor	0	0	127	24	130	52	313	12	1964	1	390	2	38	8	1	0	3	0	2	0	0	0
Cheilodactylus nigripes	0	0	0	0	0	0	0	0	0	0	2	2	1	1	27	8	7	3	15	5	0	0
Cheilodactylus spectabilis	9	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diodon nicthemerus	1	2	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	10	2	2	0	1
Dotalabrus aurantiacus	0	1	0	1	0	3	2	2	0	0	5	0	0	0	2	1	2	5	0	7	1	0
Enoplosus armatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	55	0	0	5	0	0	0
Eubalichthys gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gerres subfasciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	10	6	16	0	0	0	0
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0
Hypoplectrodes maccullochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	0	0	0	6	0	0	0	0	0	73	1	0	0	0	0	0	0	0
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	1	2	1	0	1	2	2	0	20	3	8	2	0	0	6	0	2	1	0	0	0	1
Meuschenia flavolineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	3	1	1	0	0

bioregion	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**SE**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**
Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
Loc.Sit.Dep	**4.4.5**	**4.4.5**	**6.1.5**	**6.1.5**	**6.2.5**	**6.2.5**	**6.3.5**	**6.3.5**	**6.4.10**	**6.4.5**	**6.5.5**	**6.5.5**	**6.6.5**	**6.6.5**	**7.1.5**	**7.1.5**	**7.2.5**	**7.2.5**	**7.3.5**	**7.3.5**	**7.4.5**	**7.4.5**
Meuschenia freycineti	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	24	0	9	4	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia venusta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0
Neoodax balteatus	0	1	32	19	5	22	52	76	1	157	19	34	30	102	0	0	36	4	0	0	3	0
Notolabrus fucicola	89	59	1	4	19	25	6	3	1	14	24	5	2	16	0	7	6	1	0	5	0	0
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	32	21	67	107	70	100	52	101	25	77	52	68	17	53	330	62	116	144	113	79	45	6
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	7	0	0	0	0	0
Odax cyanomelas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	10	0	4	0	0	0
Omegophora armilla	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	2	4	4	9	2	1	0
Pempheris multiradiata	0	0	3	1	0	0	2	1	0	0	0	0	0	1	0	0	0	0	80	0	0	0
Pentaceropsis recurvirostris	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	2	2	12	21	8	9	25	12	7	11	1	3	1	2	7	0	16	3	10	0	2	0
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	6	0	2	9	3	4	6	3	31	7	18	4	0	1	0	0	0	4	0	0	0	0
Pseudophycis spp.	0	0	2	1	2	2	1	1	1	0	4	3	5	1	0	0	0	0	0	0	0	0
Scorpis aequipinnis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	25	2	0	16	0	0	0
Scorpis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0
Seriolella brama	0	0	0	0	0	0	0	0	665	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	0	0	0	0	0	7	0	0	0	8	0	0	0	0	10	0	50	66	27	11	68	12
Siphonognathus tanyourus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stigmatopora nigra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thamnaconus degeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	0	0	1719	1824	1005	5775	2369	1541	705	246	3776	1851	1972	6577	0	0	0	8	0	0	0	0
Upeneichthys vlamingii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Urolophus cruciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0

bioregion	N	N	N	N	KI	KI	KI	KI	KI	KI	KI	KI	KI	KI	KI	KI	N	N	N	N	N	N
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	7.5.5	7.5.5	7.6.5	7.6.5	8.1.5	8.1.5	8.2.5	8.2.5	8.3.5	8.3.5	8.4.5	8.4.5	8.5.5	8.5.5	8.6.5	8.6.5	9.1.5	9.1.5	9.2.5	9.2.5	9.3.5	9.3.5
Acanthaluteres spilomelanurus	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acanthaluteres vittiger	9	5	15	0	2	55	0	0	2	1	0	0	0	0	0	0	0	1	6	11	2	172
Achoerodus gouldii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	1	1	2	0	0	0	1	1	0	0	0	1	0	0	2	0	0	0	0	0	0	1
Aracana aurita	0	0	0	0	0	1	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Aracana ornata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca rasor	0	0	28	0	0	0	0	0	1	0	0	1	0	0	0	0	136	9	15	0	3	20
Cheilodactylus nigripes	18	7	19	2	1	3	13	2	19	9	0	2	0	0	1	0	11	5	9	9	17	3
Cheilodactylus spectabilis	0	0	4	0	0	0	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
Diodon nicthemerus	0	1	0	1	0	0	0	0	3	0	0	0	0	0	0	0	2	1	1	0	3	0
Dotalabrus aurantiacus	16	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
Enoplosus armatus	13	1	11	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys gunnii	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gerres subfasciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	12	23	9	29	0	0	2	0	2	10	0	1	0	0	0	0	0	2	0	10	2	22
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes maccullochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	0	0	0	0	0	9	0	2	0	0	0	0	0	0	0	0	0	0
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	5	0	0	3	0	1	1	3	2	1	1	0	0	0	0	0	3	4	3	1	3	0
Meuschenia flavolineata	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0

bioregion	N	N	N	N	KI	KI	KI	KI	KI	KI	KI	KI	KI	KI	KI	KI	N	N	N	N	N	N
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	7.5.5	7.5.5	7.6.5	7.6.5	8.1.5	8.1.5	8.2.5	8.2.5	8.3.5	8.3.5	8.4.5	8.4.5	8.5.5	8.5.5	8.6.5	8.6.5	9.1.5	9.1.5	9.2.5	9.2.5	9.3.5	9.3.5
Meuschenia freycineti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1	0
Meuschenia hippocrepis	11	15	5	5	0	0	1	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia venusta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	2	3	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	3	0	2	1
Notolabrus fucicola	0	1	0	6	1	0	10	14	40	4	6	10	0	3	0	11	2	15	1	9	2	4
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	217	113	167	87	44	16	164	42	270	38	51	134	40	12	15	22	170	128	69	33	63	28
Odax acroptilus	4	2	4	1	5	2	1	0	1	1	0	0	0	1	0	0	0	0	0	1	0	2
Odax cyanomelas	3	13	21	21	2	0	0	0	0	0	4	0	0	0	0	0	0	0	1	3	0	7
Omegophora armilla	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	10	13	3	0	0	0	2	2	27	21	0	12	0	0	0	2	2	10	4	4	1	3
Pempheris multiradiata	1	1	0	0	0	1	0	0	3	2	0	0	0	0	0	0	0	0	540	400	1218	0
Pentaceropsis recurvirostris	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	34	1	7	0	6	1	1	0	22	6	0	0	0	0	0	0	4	3	8	4	9	2
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	18	0	7	0	0	0
Pseudophycis spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
Scorpis aequipinnis	10	2	3	28	0	4	21	39	17	136	0	12	0	1	63	3	0	6	3	10	1	4
Scorpis lineolata	10	0	4	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seriolella brama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	83	1	60	1	19	0	0	0	1	0	1	0	0	0	0	0	2	0	31	0	4	0
Siphonognathus tanyourus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stigmatopora nigra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thamnaconus degeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	50	256	112	97	454
Upeneichthys vlamingii	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1	2	0	4	1
Urolophus cruciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	N	N	N	N	N	N	N	N												
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006												
Loc.Sit.Dep	9.4.5	9.4.5	9.5.5	9.5.5	9.6.5	9.6.5	9.7.5	9.7.5												
Acanthaluteres spilomelanurus	0	6	0	0	89	0	2	0												
Acanthaluteres vittiger	9	0	6	52	4	25	7	0												
Achoerodus gouldii	0	0	0	0	0	0	0	0												
Achoerodus viridis	0	0	0	0	0	0	0	0												
Aplodactylus arctidens	0	2	0	0	1	0	0	0												
Aracana aurita	0	0	0	0	0	0	1	0												
Aracana ornata	0	0	0	0	0	0	0	0												
Atypichthys strigatus	0	100	0	22	0	0	0	0												
Aulopus purpurissatus	0	0	0	0	0	0	0	0												
Caesioperca lepidoptera	0	0	0	0	0	0	0	0												
Caesioperca rasor	5	0	40	59	311	589	0	0												
Cheilodactylus nigripes	25	14	5	6	1	15	0	9												
Cheilodactylus spectabilis	3	0	0	0	0	0	0	0												
Chromis hypsilepis	0	0	0	0	0	0	0	0												
Cyttus australis	0	0	0	0	0	0	0	0												
Dactylophora nigricans	0	0	0	0	0	0	0	0												
Dasyatis brevicaudata	0	1	0	0	0	0	0	0												
Diodon nicthemerus	5	4	1	3	3	1	0	2												
Dotalabrus aurantiacus	0	0	4	3	1	0	2	1												
Enoplosus armatus	3	0	0	0	0	0	0	0												
Eubalichthys gunnii	0	1	0	0	0	0	0	0												
Eupetrichthys angustipes	0	0	0	0	0	0	0	0												
Gerres subfasciatus	0	0	0	0	0	0	0	0												
Girella elevata	0	0	0	0	0	0	0	0												
Girella tricuspidata	0	0	0	0	0	0	0	0												
Girella zebra	2	15	0	0	0	18	0	7												
Haletta semifasciata	0	0	0	0	0	0	0	0												
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0												
Hypoplectrodes maccullochi	0	0	0	0	0	0	0	0												
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0												
Kyphosus sydneyanus	0	0	0	0	0	0	0	0												
Latridopsis forsteri	1	0	0	0	0	5	0	0												
Latris lineata	0	0	0	0	0	0	0	0												
Lotella rhacina	0	0	0	0	0	0	0	0												
Mendosoma allporti	0	0	0	0	0	0	0	0												
Meuschenia australis	1	15	8	1	5	2	1	2												
Meuschenia flavolineata	0	0	0	0	2	13	0	0												

Meuschenia freycineti	3	0	1	0	0	0	0	0														
Meuschenia hippocrepis	6	17	1	0	2	0	0	0														
Meuschenia scaber	0	0	0	0	0	0	0	0														
Meuschenia venusta	0	0	0	0	0	0	0	0														
Nemadactylus macropterus	0	0	0	0	0	0	0	0														
Neoodax balteatus	0	0	0	21	0	1	1	0														
Notolabrus fucicola	7	43	15	30	5	36	0	0														
Notolabrus gymnogenis	0	0	0	0	0	0	0	0														
Notolabrus tetricus	58	51	91	81	24	22	38	51														
Odax acroptilus	0	0	1	1	1	2	0	2														
Odax cyanomelas	24	6	4	0	0	7	0	0														
Omegophora armilla	0	0	0	0	0	0	0	0														
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0														
Paratrachichthys trailli	0	0	0	0	0	0	0	0														
Parma microlepis	0	0	0	0	0	0	0	0														
Parma victoriae	2	10	0	0	5	6	0	2														
Pempheris multiradiata	486	780	107	1210	27	84	0	0														
Pentaceropsis recurvirostris	3	0	1	0	2	6	0	0														
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	3														
Pictilabrus laticlavius	4	3	3	7	10	7	7	18														
Pseudocaranx dentex	0	8	0	0	0	0	0	0														
Pseudolabrus psittaculus	2	0	11	0	6	0	0	0														
Pseudophycis spp.	1	0	1	0	1	1	0	0														
Scorpis aequipinnis	44	17	10	1	0	6	0	3														
Scorpis lineolata	10	0	0	0	0	0	0	0														
Seriolella brama	0	0	0	0	0	0	0	0														
Siphonognathus attenuatus	0	0	0	0	0	0	0	0														
Siphonognathus beddomei	12	0	41	1	4	0	40	0														
Siphonognathus tanyourus	0	0	0	0	0	0	0	0														
Stigmatopora nigra	0	0	0	0	0	0	0	0														
Tetractenos glaber	0	0	0	0	0	1	0	0														
Thamnaconus degeni	0	0	0	0	0	0	0	0														
Trachinops caudimaculatus	76	310	72	430	18	260	0	0														
Upeneichthys vlamingii	0	1	3	4	1	2	12	6														
Urolophus cruciatus	0	0	0	0	6	0	0	0														
Urolophus paucimaculatus	0	1	0	0	0	0	0	0														
Vincentia conspersa	0	0	0	0	0	0	0	0														

bioregion	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	10.1.5	10.1.5	10.2.5	10.2.5	10.3.5	10.3.5	10.4.5	10.4.5	10.5.5	10.5.5	10.6.5	10.6.5	10.7.5	10.7.5	10.8.5	10.8.5	21.13.5	21.13.5
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes ovum	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes sp. (Cape Por	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cenolia tasmaniae	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cenolia trichoptera	94	248	133	0	0	0	0	0	0	0	1	16	1	0	1	0	5	12
Centrostephanus rodgersii	1	0	0	0	3	0	0	2	0	0	22	10	2	0	1	0	0	1
Cephaloscyllium laticeps	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
Charonia lampas rubicunda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	1	0	0	0	2	3	3	1	5	5	0	0	1	1	0	0	3	0
Echinaster arcystatus	0	0	0	0	1	2	0	6	0	0	0	1	0	1	0	1	0	2
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fromia polypora	0	0	0	0	0	4	0	3	0	2	0	0	0	5	0	0	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	0	0	5	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Haliotis laevigata	11	4	47	7	0	0	0	0	0	1	0	0	19	1	0	4	0	0
Haliotis rubra	21	5	18	2	326	295	28	57	244	30	0	14	40	66	32	49	0	1
Haliotis scalaris	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	179	335	185	20	23	33	11	25	57	16	606	494	304	140	129	148	32	339

bioregion	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	10.1.5	10.1.5	10.2.5	10.2.5	10.3.5	10.3.5	10.4.5	10.4.5	10.5.5	10.5.5	10.6.5	10.6.5	10.7.5	10.7.5	10.8.5	10.8.5	21.13.5	21.13.5
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jasus edwardsii	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Maoricolpus roseus	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	0	0	0	0	1	1	2	0	1	1	0	2	0	0
Nectria macrobrachia	0	0	0	0	0	2	1	7	0	1	0	1	0	0	1	2	0	0
Nectria multispina	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	2	0	1	0	1	3	0	5	0	1	0	3	2	2	2	3	3	1
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	2	0	0	0	0	1	0	0	1	1	0	3	0	0
Pagurid spp.	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	139	106	6	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentagonaster dubeni	0	1	5	0	0	0	0	3	0	0	0	0	0	0	0	0	1	0
Petricia vernicina	0	0	1	0	2	1	0	4	0	0	1	1	0	2	1	2	1	0
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	0	0	0	0	6	5	3	0	14	3	2	1	6	3	4	4	0	0
Plectaster decanus	1	0	1	0	1	2	2	1	0	5	0	0	0	3	0	2	1	0
Pleuroploca australasia	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranella australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	10.1.5	10.1.5	10.2.5	10.2.5	10.3.5	10.3.5	10.4.5	10.4.5	10.5.5	10.5.5	10.6.5	10.6.5	10.7.5	10.7.5	10.8.5	10.8.5	21.13.5	21.13.5
Sassia subdistorta	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	0
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tosia australis	9	2	4	2	2	1	0	2	1	0	0	0	0	0	0	2	1	1
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Trizopagurus strigimanus	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Turbo undulatus	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uniophora granifera	0	9	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	KG	KG	KG	KG	KG	KG
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	21.4.5	21.4.5	21.5.5	21.5.5	21.6.5	21.6.5	21.7.5	21.7.5	21.8.5	21.8.5	21.9.5	21.9.5	11.1.5	11.1.5	11.10.5	11.10.5	11.11.5	11.11.5
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes ovum	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	0	0	3
Amblypneustes sp. (Cape Por	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Cenolia tasmaniae	0	0	0	0	0	2	0	0	0	0	0	0	0	0	3	0	2	0
Cenolia trichoptera	0	48	15	133	152	39	159	0	14	31	0	9	6	5	14	10	41	43
Centrostephanus rodgersii	0	1	0	0	0	0	0	0	0	0	0	0	7	12	28	47	42	73
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Charonia lampas rubicunda	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	0	2	1	0	2	2	0	0	1	0	0	0	0	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	1	0	0	1	0	0	0	3	0	0	4	0	0	0	0	0	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fromia polypora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Haliotis laevigata	0	10	1	0	2	9	0	0	0	3	2	5	3	0	0	1	0	0
Haliotis rubra	113	414	8	8	26	30	5	98	33	96	6	13	27	66	6	3	1	0
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	3	24	40	138	28	11	23	7	9	6	16	145	142	6	169	47	425	337

bioregion	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	KG	KG	KG	KG	KG	KG
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	21.4.5	21.4.5	21.5.5	21.5.5	21.6.5	21.6.5	21.7.5	21.7.5	21.8.5	21.8.5	21.9.5	21.9.5	11.1.5	11.1.5	11.10.5	11.10.5	11.11.5	11.11.5
Heteroclinus johnstoni	0	1	0	2	0	1	1	0	0	0	0	0	0	0	0	0	2	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Jasus edwardsii	0	6	6	1	2	1	0	2	1	0	0	0	1	1	0	2	0	1
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Nectria ocellata	0	0	6	4	1	0	0	0	11	7	0	0	6	3	3	2	1	1
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	8	0	0
Pagurid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	1	4	0	74	0	52	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	0	0	0	12	0	779	0	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentagonaster dubeni	1	0	0	0	2	0	1	0	0	0	0	1	0	1	0	0	1	3
Petricia vernicina	0	1	1	2	0	0	0	0	2	1	0	0	3	0	0	2	3	7
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	6	20	3	3	2	0	0	4	2	3	1	0	2	2	1	3	4	3
Plectaster decanus	0	1	0	2	3	0	2	1	1	0	0	3	0	1	2	2	1	0
Pleuroploca australasia	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranella australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0

bioregion	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	KG	KG	KG	KG	KG	KG
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	21.4.5	21.4.5	21.5.5	21.5.5	21.6.5	21.6.5	21.7.5	21.7.5	21.8.5	21.8.5	21.9.5	21.9.5	11.1.5	11.1.5	11.10.5	11.10.5	11.11.5	11.11.5
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scutus antipodes	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	0	0	2	13	0	0	0	0	0	3	0	0	0	0	0	0	0	0
Tosia australis	5	0	2	22	4	7	0	1	0	14	3	0	0	0	0	0	0	0
Tosia magnifica	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Trizopagurus strigimanus	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turbo undulatus	2	12	11	12	1	99	3	29	58	6	1	0	0	0	0	0	0	0
Uniophora granifera	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KI	KI	KI	KI
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	11.12.5	11.12.5	11.2.5	11.2.5	11.3.5	11.3.5	11.4.5	11.4.5	11.7.5	11.7.5	11.8.5	11.8.5	11.9.5	11.9.5	8.1.5	8.1.5	8.2.5	8.2.5
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes ovum	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Amblypneustes sp. (Cape Por	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cenolia tasmaniae	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	6
Cenolia trichoptera	6	0	15	5	7	9	19	11	3	13	3	5	3	2	14	229	17	7
Centrostephanus rodgersii	43	23	68	46	26	50	174	61	500	415	9	7	0	1	0	0	0	0
Cephaloscyllium laticeps	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
Charonia lampas rubicunda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0
Coscinasterias muricata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Dicathais orbita	1	0	0	0	0	0	0	0	0	0	7	0	4	1	8	1	10	1
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fromia polypora	0	4	1	1	1	1	0	1	1	0	3	0	0	2	0	0	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Haliotis laevigata	0	0	0	1	0	0	0	0	0	0	0	3	0	0	2	0	3	4
Haliotis rubra	2	7	9	6	6	6	3	8	2	0	72	35	82	116	11	0	18	42
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	326	0	619	335	217	6	566	170	228	62	123	37	29	14	17	30	129	251

bioregion	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KI	KI	KI	KI
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	11.12.5	11.12.5	11.2.5	11.2.5	11.3.5	11.3.5	11.4.5	11.4.5	11.7.5	11.7.5	11.8.5	11.8.5	11.9.5	11.9.5	8.1.5	8.1.5	8.2.5	8.2.5
Heteroclinus johnstoni	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Jasus edwardsii	0	0	2	0	1	2	1	2	0	0	0	1	0	0	0	4	2	3
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	1	2	1	2	2	2	0	1	1	0	2	0	0	0	0	0	0	0
Nectria macrobrachia	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	5	1	1	0	3	2	1	2	2	1	0	5	5	3	0	0	1	0
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	2	5	5	0	2	2	3	0	12	0	0	0	7	0	0	0	0
Pagurid spp.	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Patiriella calcar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentagonaster dubeni	1	0	2	1	1	7	2	0	1	2	0	0	0	1	0	0	0	0
Petricia vernicina	3	1	2	5	6	2	6	0	1	2	0	0	1	4	0	3	2	1
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Plagusia chabrus	7	1	8	0	4	4	6	3	1	1	11	5	8	8	0	0	0	0
Plectaster decanus	0	0	0	0	1	3	1	1	3	2	1	1	0	0	0	0	1	0
Pleuroploca australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Ranella australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KI	KI	KI	KI
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	11.12.5	11.12.5	11.2.5	11.2.5	11.3.5	11.3.5	11.4.5	11.4.5	11.7.5	11.7.5	11.8.5	11.8.5	11.9.5	11.9.5	8.1.5	8.1.5	8.2.5	8.2.5
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	1
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tosia australis	0	0	0	0	1	0	0	0	0	0	0	0	0	4	0	3	16	9
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
Turbo undulatus	2	0	0	0	0	0	0	0	0	0	0	0	1	0	188	9	98	45
Uniophora granifera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

bioregion	KI	KI	KI	KI	KI	KI	N	N	N	N	N	N	N	N	N	N	N	N
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	8.3.5	8.3.5	8.4.5	8.4.5	8.5.5	8.5.5	22.1.5	22.1.5	22.2.5	22.2.5	22.3.5	22.3.5	22.4.5	22.4.5	22.5.5	22.5.5	22.6.5	22.6.5
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes ovum	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes sp. (Cape Por	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	0	2	1	0	0	1	0	2	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Cenolia tasmaniae	0	0	0	0	0	0	13	0	8	0	3	0	1	1	1	0	7	0
Cenolia trichoptera	2	2	0	0	0	0	16	4	35	13	58	5	9	10	12	11	13	0
Centrostephanus rodgersii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Charonia lampas rubicunda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	0	1	2	0	0	0	3	1	0	0	0	0	0	0	0	0	1
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Dicathais orbita	8	1	0	0	0	1	2	0	1	0	2	0	2	0	3	0	4	2
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fromia polypora	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Goniocidaris tubaria	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis laevigata	1	0	0	3	0	0	0	0	1	3	0	0	0	0	0	5	0	0
Haliotis rubra	68	8	36	23	23	8	10	11	59	22	1	5	0	0	29	70	1	7
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	33	48	14	247	176	161	256	73	367	137	325	221	65	73	337	622	108	67

bioregion	KI	KI	KI	KI	KI	KI	N	N	N	N	N	N	N	N	N	N	N	N
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	8.3.5	8.3.5	8.4.5	8.4.5	8.5.5	8.5.5	22.1.5	22.1.5	22.2.5	22.2.5	22.3.5	22.3.5	22.4.5	22.4.5	22.5.5	22.5.5	22.6.5	22.6.5
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	2	0	1	0	0	2	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Heteroclinus tristis	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	0	7	1	0	0	1	0	1	0	0	0	0	0	0	0
Jasus edwardsii	8	3	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	4	6	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	1	0	0	0	0	0	2	0	1	4	0	0	1	3	0	1
Pagurid spp.	0	3	0	1	0	1	0	0	1	0	1	0	0	0	1	3	4	0
Parablennius tasmanianus	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium variolatum	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	88	10	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentagonaster dubeni	0	1	0	0	0	0	0	1	0	0	2	2	2	1	2	1	0	0
Petricia vernicina	2	0	2	1	1	0	2	0	3	0	0	0	0	0	0	1	0	0
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	1	0	1
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plectaster decanus	0	1	0	0	0	0	1	2	2	0	3	0	1	2	0	2	1	2
Pleuroploca australasia	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranella australasia	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	KI	KI	KI	KI	KI	KI	N	N	N	N	N	N	N	N	N	N	N	N
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	8.3.5	8.3.5	8.4.5	8.4.5	8.5.5	8.5.5	22.1.5	22.1.5	22.2.5	22.2.5	22.3.5	22.3.5	22.4.5	22.4.5	22.5.5	22.5.5	22.6.5	22.6.5
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
Scutus antipodes	0	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Stichopus mollis	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
Tosia australis	0	1	2	1	2	3	3	0	24	0	12	0	0	0	2	0	1	3
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Turbo undulatus	434	201	7	4	0	12	0	0	1	0	0	0	1	0	0	1	20	50
Uniophora granifera	0	0	0	0	0	0	1	2	0	0	1	0	0	0	2	0	0	0

bioregion	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	22.8.5	22.8.5	7.1.5	7.1.5	7.2.5	7.2.5	7.3.5	7.3.5	7.4.5	7.4.5	9.1.5	9.1.5	9.2.5	9.2.5	9.3.5	9.3.5	9.4.5	9.4.5
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes ovum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes sp. (Cape Por	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	0	0	8	1	1	1	2	3	2
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cenolia tasmaniae	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	1	0	0
Cenolia trichoptera	9	0	1	0	569	9	116	16	43	18	16	8	13	4	8	0	1	1
Centrostephanus rodgersii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Charonia lampas rubicunda	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Conger verreauxi	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Coscinasterias muricata	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	6	0	1	10	3	0	1	4	2	0	0	0	1	13	23	21	11	32
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Fromia polypora	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis laevigata	8	0	0	0	0	3	0	0	3	29	4	1	0	2	0	0	0	0
Haliotis rubra	72	3	34	21	1	5	8	0	10	14	29	26	58	132	41	48	177	72
Haliotis scalaris	0	0	0	0	0	0	0	0	3	0	6	0	0	0	0	0	0	0
Heliocidaris erythrogramma	106	5	20	7	214	257	197	101	354	197	588	702	299	251	184	122	119	22

bioregion	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	22.8.5	22.8.5	7.1.5	7.1.5	7.2.5	7.2.5	7.3.5	7.3.5	7.4.5	7.4.5	9.1.5	9.1.5	9.2.5	9.2.5	9.3.5	9.3.5	9.4.5	9.4.5
Heteroclinus johnstoni	3	0	1	0	1	0	4	0	0	2	0	0	2	0	0	0	1	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
Jasus edwardsii	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	1	0	0	0	0	0	2	0	0	0	1	0	2	0	0	0	4	1
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	0	0	1	0	5	0	1	0	0	0	1	0	0	1	0	0	1	0
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	3	0	1
Pagurid spp.	0	0	0	0	3	0	1	0	0	0	3	5	3	1	17	0	13	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	3	0	1	0	0	0	4	1	0	0	0	0	0	0	0	0	0	1
Patiriella calcar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	1	0
Pentagonaster dubeni	1	0	0	1	1	1	0	1	2	0	0	0	6	0	0	3	1	0
Petricia vernicina	1	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	6	0	0
Phasianella ventricosa	0	0	0	1	0	0	0	7	0	0	0	6	0	11	0	2	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	0	0	7	3	4	0	2	3	2	0	0	0	6	1	3	1	12	4
Plectaster decanus	0	0	2	0	1	1	9	1	2	1	5	1	4	3	2	0	0	0
Pleuroploca australasia	0	0	0	0	0	0	2	0	0	0	1	1	2	0	9	1	0	0
Ranella australasia	0	0	0	0	0	0	0	0	0	0	5	0	1	1	0	1	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	22.8.5	22.8.5	7.1.5	7.1.5	7.2.5	7.2.5	7.3.5	7.3.5	7.4.5	7.4.5	9.1.5	9.1.5	9.2.5	9.2.5	9.3.5	9.3.5	9.4.5	9.4.5
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	1	0
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Tosia australis	5	0	2	0	6	0	13	4	2	3	6	1	27	2	12	3	2	1
Tosia magnifica	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	0	0	0	0	0	0	0	0	0	0	0	2	1	3	0	2	0	2
Turbo undulatus	5	0	1	7	0	0	1	1	0	0	0	6	0	85	15	38	19	325
Uniophora granifera	0	0	1	0	1	2	0	1	0	0	5	2	0	0	3	1	1	0

bioregion	N	N	N	N	N	N	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	9.5.5	9.5.5	9.6.5	9.6.5	9.7.5	9.7.5	0.1.10	0.1.10	0.1.5	0.1.5	0.2.5	0.2.5	0.3.5	0.3.5	0.4.10	0.4.10	0.5.5	0.5.5
Aetapcus maculatus	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Amblypneustes ovum	0	0	3	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes sp. (Cape Por	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Bovichtus angustifrons	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
Cenolia tasmaniae	0	0	2	6	3	0	1	0	0	5	4	20	4	7	0	0	0	0
Cenolia trichoptera	4	8	39	40	6	2	83	547	18	12	178	925	36	143	4	79	0	6
Centrostephanus rodgersii	0	0	0	0	0	0	0	0	1	0	3	63	1	3	0	15	0	0
Cephaloscyllium laticeps	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0
Charonia lampas rubicunda	0	0	0	0	0	0	0	2	0	0	0	5	0	0	0	0	0	1
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	1	1	3	4	0	1	0	0	0	0	0	3	1	0	0	1	3	1
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Fromia polypora	0	0	0	1	0	0	0	0	1	0	1	0	2	0	0	2	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	0	0	1	2	0	0	2	0	0	0	2	0	2	0	0	0	1	0
Haliotis laevigata	0	0	0	0	10	7	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis rubra	202	63	34	73	9	27	4	23	3	50	2	20	3	5	28	16	34	97
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	329	647	250	233	69	79	2	0	0	0	53	193	62	45	0	1	213	79

bioregion	N	N	N	N	N	N	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	9.5.5	9.5.5	9.6.5	9.6.5	9.7.5	9.7.5	0.1.10	0.1.10	0.1.5	0.1.5	0.2.5	0.2.5	0.3.5	0.3.5	0.4.10	0.4.10	0.5.5	0.5.5
Heteroclinus johnstoni	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus tristis	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
Hippocampus abdominalis	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	3	0	1	0	0	0	0	0	0	0	4	0	0	0	0	0
Jasus edwardsii	0	0	2	2	0	0	2	7	1	1	15	3	6	7	1	0	0	0
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	0	0	0	1	0	0	13	1	8	0	5	4	7	0	0	0	1	0
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	6	0	0	0	2	1	0	0	0	0	1	0	0	0	0	1	0
Pagurid spp.	17	1	0	7	6	4	0	0	0	0	0	0	0	0	0	1	0	0
Parablennius tasmanianus	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	1	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
Pentagonaster dubeni	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Petricia vernicina	1	0	1	2	1	0	0	0	0	0	1	0	1	0	0	0	0	1
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella ventricosa	0	1	0	3	0	7	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	1	0	1	0	0	0	1	4	0	5	0	6	3	4	7	6	3	0
Plectaster decanus	9	5	5	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleuroploca australasia	5	5	0	2	0	4	2	0	0	0	0	0	1	1	0	0	0	0
Ranella australasia	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	N	N	N	N	N	N	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	9.5.5	9.5.5	9.6.5	9.6.5	9.7.5	9.7.5	0.1.10	0.1.10	0.1.5	0.1.5	0.2.5	0.2.5	0.3.5	0.3.5	0.4.10	0.4.10	0.5.5	0.5.5
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	0	0	0	0	0	0	0	0	0	0	1	1	5	1	0	1	0	0
Tosia australis	10	3	0	2	9	4	0	0	0	0	0	0	0	0	0	0	22	28
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	0	1	3	1	1	1	1	2	0	0	2	1	4	0	3	0	3	3
Turbo undulatus	4	45	0	20	7	53	0	0	1	7	0	0	0	0	3	0	0	16
Uniophora granifera	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	2006	1994	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	0.6.5	0.6.5	0.7.10	0.7.10	0.8.5	0.8.5	0.9.10	0.9.5	13.1.10	13.1.10	13.1.5	13.1.5	13.2.5	13.2.5	13.3.10	13.3.10	14.1.5	14.1.5
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes ovum	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Amblypneustes sp. (Cape Por	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	0	0	0	0	0	0	0	0	0	0	0	1	11	0	2	0	0
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	1	0	0	0	0	0	0	0	0	0	2	1	1	0	0
Cenolia tasmaniae	0	4	0	21	1	0	0	0	2	3	0	0	7	18	3	56	1	0
Cenolia trichoptera	7	84	42	322	0	4	507	146	106	263	7	11	379	194	883	3399	9	481
Centrostephanus rodgersii	0	11	9	16	0	9	35	0	0	1	0	0	1	0	3	24	1	0
Cephaloscyllium laticeps	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
Charonia lampas rubicunda	1	0	0	0	0	0	1	1	0	0	0	0	0	0	2	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	0	0	0	0	0	0	0	1	0	0	0	9	0	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	0	1	0	0	3	0	0	0	1	0	17	0	0	0	1	0	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fromia polypora	3	0	0	0	6	0	0	4	0	0	0	1	0	1	0	0	0	1
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	8	1	0	0	0	0	0	1	2	0	0	0	0	0	20	5	0	0
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis rubra	12	2	25	56	29	36	8	4	11	3	12	11	46	14	31	16	56	7
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	1027	876	53	9	2	4	0	3	0	9	0	0	14	12	467	29	32	47

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	2006	1994	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	0.6.5	0.6.5	0.7.10	0.7.10	0.8.5	0.8.5	0.9.10	0.9.5	13.1.10	13.1.10	13.1.5	13.1.5	13.2.5	13.2.5	13.3.10	13.3.10	14.1.5	14.1.5
Heteroclinus johnstoni	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
Jasus edwardsii	4	5	0	3	3	0	2	3	0	1	0	0	2	2	3	0	0	11
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	9	2	5	0	9	0	4	11	3	0	0	0	2	0	4	0	4	5
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	0	0	0	0	0	0	0	0	0	208	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
Pentagonaster dubeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Petricia vernicina	13	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	3
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	10	6	6	24	4	0	1	1	4	4	4	1	31	10	2	3	2	5
Plectaster decanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleuroploca australasia	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Ranella australasia	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	2006	1994	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	0.6.5	0.6.5	0.7.10	0.7.10	0.8.5	0.8.5	0.9.10	0.9.5	13.1.10	13.1.10	13.1.5	13.1.5	13.2.5	13.2.5	13.3.10	13.3.10	14.1.5	14.1.5
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	1	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	1	0	1	0	0	0	0	1	0	1	0	0	1	4	0	0	0	1
Tosia australis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	3	6	7	1	0	0	0	3	2	1	0	0	0	1	4	0	4	1
Turbo undulatus	0	0	0	0	0	0	1	1	20	0	244	14	3	2	0	3	83	2
Uniophora granifera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	14.2.5	14.2.5	14.3.5	14.3.5	14.4.5	14.4.5	19.1.5	19.1.5	19.2.5	19.2.5	19.3.10	19.3.10	19.3.5	19.3.5	19.4.5	19.4.5	19.5.10	19.5.10
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes ovum	0	0	0	2	0	0	0	0	0	0	0	1	0	4	0	1	0	0
Amblypneustes sp. (Cape Por	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	0	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	1	1	0	0	0	1	0	0	1	0	4	0	1	0	11
Cenolia tasmaniae	3	0	0	31	8	12	1	0	0	0	0	0	0	1	0	0	23	0
Cenolia trichoptera	38	0	190	241	96	339	68	85	49	98	116	49	27	174	317	76	19	46
Centrostephanus rodgersii	0	0	3	0	1	42	1	46	2	21	23	188	3	265	19	41	0	0
Cephaloscyllium laticeps	1	1	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Charonia lampas rubicunda	0	0	1	0	0	0	0	0	0	20	0	0	0	0	1	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	5	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	0	0	0	0	0	0	1	0	3	0	0	0	0	1	0	0	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Fromia polypora	0	0	0	0	0	0	0	0	2	0	0	0	3	0	0	0	1	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	0	0	1	0	1	0	0	2	0	7	0	2	2	2	1	0	3	0
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis rubra	0	13	13	9	14	3	48	56	14	29	7	3	11	88	43	145	9	5
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	2	10	173	4	76	101	1	27	0	1	6	89	1	88	58	47	0	0

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	14.2.5	14.2.5	14.3.5	14.3.5	14.4.5	14.4.5	19.1.5	19.1.5	19.2.5	19.2.5	19.3.10	19.3.10	19.3.5	19.3.5	19.4.5	19.4.5	19.5.10	19.5.10
Heteroclinus johnstoni	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	3	4	0	14	1	8	0	0	0	0	0	1	0	0	0	0	0	0
Jasus edwardsii	1	0	9	0	12	4	1	3	0	5	0	4	0	4	1	0	4	4
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	0	0	0	3	1	2	0	0	4	0	1	2	1	0	0	0	0	0
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0
Pagurid spp.	0	0	0	0	0	0	0	1	1	0	0	0	0	3	0	1	0	2
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Pentagonaster dubeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Petricia vernicina	1	0	1	0	1	0	1	0	0	0	0	0	0	0	1	0	0	1
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Phasianella ventricosa	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	2	1	2	4	6	5	20	74	7	39	1	3	5	41	7	30	9	24
Plectaster decanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleuroploca australasia	2	1	1	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0
Ranella australasia	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	14.2.5	14.2.5	14.3.5	14.3.5	14.4.5	14.4.5	19.1.5	19.1.5	19.2.5	19.2.5	19.3.10	19.3.10	19.3.5	19.3.5	19.4.5	19.4.5	19.5.10	19.5.10
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	3	1	7	0	3	0	0	0	0	0	1	0	0	0	2	0	1	0
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	1	0	0	1	0	1	1	0	0	0	0	0	0	1	0	0	0	6
Tosia australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	0	1	4	5	1	1	4	2	1	2	0	2	0	3	1	1	1	9
Turbo undulatus	0	80	0	0	0	0	0	0	0	0	0	33	3	7	0	2	3	87
Uniophora granifera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	19.5.5	19.5.5	19.6.5	19.6.5	19.7.5	19.7.5	2.1.5	2.1.5	2.2.5	2.2.5	2.3.5	2.3.5	2.4.5	2.4.5	2.5.5	2.5.5	2.6.5	2.6.5
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes ovum	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
Amblypneustes sp. (Cape Por	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Astrostole scabra	0	4	0	1	0	0	2	1	0	0	1	0	0	13	0	0	0	0
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	17	0	1	2	1	0	0	0	1	0	0	0	1	0	0	0	2
Cenolia tasmaniae	0	0	0	0	0	0	0	3	3	1	0	1	0	1	0	44	1	4
Cenolia trichoptera	14	10	4	22	0	0	110	190	285	446	10	40	66	150	675	720	79	74
Centrostephanus rodgersii	0	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0
Cephaloscyllium laticeps	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	3
Charonia lampas rubicunda	0	0	0	0	0	0	60	0	0	0	0	1	0	0	0	0	0	6
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Dicathais orbita	0	6	0	0	13	24	0	0	0	0	5	0	0	0	0	0	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fromia polypora	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Goniocidaris tubaria	0	0	0	1	0	0	10	1	28	16	6	0	11	1	24	6	5	2
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis rubra	14	47	34	56	21	48	5	0	8	22	53	65	10	55	15	16	10	34
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	0	0	0	0	23	27	1	0	419	587	54	134	236	162	1	16	373	507

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	19.5.5	19.5.5	19.6.5	19.6.5	19.7.5	19.7.5	2.1.5	2.1.5	2.2.5	2.2.5	2.3.5	2.3.5	2.4.5	2.4.5	2.5.5	2.5.5	2.6.5	2.6.5
Heteroclinus johnstoni	0	1	0	0	0	1	2	0	1	0	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Heteroclinus tristis	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Jasus edwardsii	0	0	0	8	0	9	3	2	4	1	4	3	1	9	2	12	0	0
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	1	0	1	0	0	0	0	9	1	1	0	5	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	0	0	0	0	0	1	4	3	2	1	0	0	0	0	0	0	0	1
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	1	2	2	0	4	2	0	0	2	0	1	0	0
Pagurid spp.	0	0	0	0	34	2	0	1	0	0	5	0	2	1	0	1	4	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Pentagonaster dubeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Petricia vernicina	0	0	0	0	0	0	3	0	1	0	0	0	0	0	1	0	0	0
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	3	13	9	27	7	1	2	1	3	6	21	15	19	23	1	4	3	3
Plectaster decanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleuroploca australasia	0	0	0	0	0	1	0	0	1	0	0	0	0	3	1	0	4	4
Ranella australasia	0	0	0	0	0	0	0	0	0	0	2	0	1	0	1	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	19.5.5	19.5.5	19.6.5	19.6.5	19.7.5	19.7.5	2.1.5	2.1.5	2.2.5	2.2.5	2.3.5	2.3.5	2.4.5	2.4.5	2.5.5	2.5.5	2.6.5	2.6.5
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	1	4	3	0	7	3	0	2	1	9	1	9	0	0
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	0	1	0	0	0	0	0	0	0	0	2	0	2	1	0	0	0	0
Tosia australis	0	0	0	0	15	13	20	4	29	14	53	19	41	38	13	14	18	12
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	0	0	0	0	5	0	1	0	1	1	1	1	0	1	0	1	1	4
Turbo undulatus	14	15	2	18	173	188	14	0	0	0	7	249	27	60	5	1	3	21
Uniophora granifera	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0

bioregion	NE	NE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	2.7.5	2.7.5	16.4.5	16.4.5	16.5.5	16.5.5	18.3.10	18.3.10	18.4.10	18.4.10	20.1.5	20.1.5	20.10.10	20.10.10	20.11.10	20.11.10	20.12.10	20.12.10
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes ovum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes sp. (Cape Por	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Astrostole scabra	0	3	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	2	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	0	0	0	1	0	0	0	0	0	0	3	0	1	0	1
Cenolia tasmaniae	0	50	0	0	0	0	0	0	1	39	0	0	0	0	0	0	0	0
Cenolia trichoptera	174	52	0	0	0	0	4	21	0	11	0	0	0	0	0	0	0	0
Centrostephanus rodgersii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cephaloscyllium laticeps	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Charonia lampas rubicunda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	0	0	0	0	0	1	1	23	0	0	0	7	3	1	1	0	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
Fromia polypora	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	0	0	0	0	0	0	3	0	0	4	0	0	0	0	1	3	0	0
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis rubra	2	0	12	4	32	37	28	21	25	17	33	73	17	8	26	21	29	11
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	178	0	0	0	0	0	27	3	0	2	0	0	0	0	0	0	0	0

bioregion	NE	NE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	2.7.5	2.7.5	16.4.5	16.4.5	16.5.5	16.5.5	18.3.10	18.3.10	18.4.10	18.4.10	20.1.5	20.1.5	20.10.10	20.10.10	20.11.10	20.11.10	20.12.10	20.12.10
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	3	0	0
Jasus edwardsii	0	0	9	4	14	3	2	0	6	4	6	5	1	0	11	2	4	3
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	0	0	7	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	220	0	0	0	5	0	0	0	0	0	0	0	3	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentagonaster dubeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Petricia vernicina	1	0	0	1	0	0	5	0	0	1	0	0	2	2	0	0	0	0
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	2	3	0	6	0	2	7	13	0	0	6	8	1	0	0	1	0	0
Plectaster decanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleuroploca australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranella australasia	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	NE	NE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	2.7.5	2.7.5	16.4.5	16.4.5	16.5.5	16.5.5	18.3.10	18.3.10	18.4.10	18.4.10	20.1.5	20.1.5	20.10.10	20.10.10	20.11.10	20.11.10	20.12.10	20.12.10
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	3	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	0	0	0	2	0	0	3	2	0	0	0	0	0	0	0	0	0	0
Tosia australis	8	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tosia magnifica	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	2	1	0	0	0	0	13	2	0	0	0	0	0	1	0	0	1	0
Turbo undulatus	8	1	2	0	828	21	0	2	0	0	0	0	0	0	0	0	0	0
Uniophora granifera	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	S	S	S	S	S	S	S	S	S	S	S	S	SE	SE	SE	SE	SE	SE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	20.13.10	20.13.10	20.2.10	20.2.10	20.5.10	20.5.10	20.7.10	20.7.10	20.8.10	20.8.10	20.9.10	20.9.10	17.1.5	17.1.5	17.2.5	17.2.5	17.3.10	17.3.10
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes ovum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes sp. (Cape Por	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	1	0	0	0	0	0	0	2	0	0	1	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	15	3	0
Cenolia tasmaniae	3	0	0	0	0	0	0	0	0	0	2	0	0	1	0	2	7	4
Cenolia trichoptera	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	11	0	20
Centrostephanus rodgersii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cephaloscyllium laticeps	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0
Charonia lampas rubicunda	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	1	0	0	0	0	0	0	2	0	3	0	3	0	0	0	4	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fromia polypora	1	1	0	0	2	0	0	0	0	1	0	0	1	0	0	0	1	2
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis rubra	13	16	1	9	14	6	9	13	6	17	5	18	13	4	4	8	0	2
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	S	S	S	S	S	S	S	S	S	S	S	S	SE	SE	SE	SE	SE	SE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	20.13.10	20.13.10	20.2.10	20.2.10	20.5.10	20.5.10	20.7.10	20.7.10	20.8.10	20.8.10	20.9.10	20.9.10	17.1.5	17.1.5	17.2.5	17.2.5	17.3.10	17.3.10
Heteroclinus johnstoni	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
Jasus edwardsii	1	3	4	1	0	7	1	0	0	10	7	2	0	11	0	5	1	3
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	2	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0	1	0
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid spp.	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentagonaster dubeni	1	0	0	0	0	0	0	3	15	0	0	1	0	0	0	0	0	0
Petricia vernicina	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	5	6	2	1	5	3	2	1	0	2	0	0	5	4	1	8	3	2
Plectaster decanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleuroploca australasia	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Ranella australasia	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	S	S	S	S	S	S	S	S	S	S	S	S	SE	SE	SE	SE	SE	SE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	20.13.10	20.13.10	20.2.10	20.2.10	20.5.10	20.5.10	20.7.10	20.7.10	20.8.10	20.8.10	20.9.10	20.9.10	17.1.5	17.1.5	17.2.5	17.2.5	17.3.10	17.3.10
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Tosia australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	2	0	1	2	0	0	0	0	1	0	0	2	0	1	0	0	3	2
Turbo undulatus	0	0	1	0	0	1	1	0	1	0	1	0	0	0	0	6	0	0
Uniophora granifera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	17.3.5	17.3.5	17.4.10	17.4.10	17.4.5	17.4.5	17.5.5	17.5.5	17.6.5	17.6.5	17.7.10	17.7.10	17.7.5	17.7.5	17.8.10	17.8.10	17.8.5	17.8.5
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes ovum	0	0	1	0	2	6	0	0	0	0	0	0	0	1	0	0	0	0
Amblypneustes sp. (Cape Por	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Astrostole scabra	0	2	0	0	0	0	1	7	0	0	0	1	0	0	2	0	0	0
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	2	0	1	0	0	1	0	0	1	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	3	0	0	0	1	0	1	0	2	1	2	1	11	0	0	0	4	0
Cenolia tasmaniae	2	3	1	0	19	2	8	17	0	0	46	0	0	0	6	5	9	9
Cenolia trichoptera	0	0	760	545	650	2512	0	33	1	39	1	57	5	42	1033	1189	534	642
Centrostephanus rodgersii	0	0	0	1	0	8	0	0	2	41	0	0	0	0	1	0	2	10
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Charonia lampas rubicunda	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3
Fromia polypora	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	0	0	0	0	3	0	2	1	1	1	0	0	0	0	18	4	6	13
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis rubra	6	15	9	12	21	13	4	2	87	15	3	13	8	7	17	1	42	1
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	0	0	508	158	847	1412	0	0	75	438	5	0	0	4	264	390	443	791

bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	17.3.5	17.3.5	17.4.10	17.4.10	17.4.5	17.4.5	17.5.5	17.5.5	17.6.5	17.6.5	17.7.10	17.7.10	17.7.5	17.7.5	17.8.10	17.8.10	17.8.5	17.8.5
Heteroclinus johnstoni	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Holopneustes inflatus	1	0	0	0	2	0	0	0	1	0	1	0	2	0	5	1	2	0
Jasus edwardsii	0	0	4	3	0	2	0	4	7	13	2	4	0	5	3	4	4	14
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	1	0	0	1	0	1	4	0	4	4	1	0	0	0	11	3	8	1
Neosebastes scorpaenoides	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	1	0	0	1	1	1	0	0	0	0	1	0	0	1
Pagurid spp.	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
Pentagonaster dubeni	0	0	0	1	0	6	0	0	0	0	0	0	0	0	0	2	1	6
Petricia vernicina	4	0	5	3	6	1	2	1	2	0	0	0	0	0	14	6	13	3
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	7	6	0	1	8	7	0	7	9	7	0	3	2	11	0	0	11	7
Plectaster decanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleuroploca australasia	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Ranella australasia	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
Loc.Sit.Dep	**17.3.5**	**17.3.5**	**17.4.10**	**17.4.10**	**17.4.5**	**17.4.5**	**17.5.5**	**17.5.5**	**17.6.5**	**17.6.5**	**17.7.10**	**17.7.10**	**17.7.5**	**17.7.5**	**17.8.10**	**17.8.10**	**17.8.5**	**17.8.5**
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	4	0	6	0	0	0	0	0	0	0	0	0	4	1	1	4
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	0	0	5	0	7	0	6	12	16	7	2	0	2	0	0	0	0	0
Tosia australis	1	0	0	0	2	3	0	0	0	0	1	0	0	0	0	0	0	1
Tosia magnifica	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	3
Trizopagurus strigimanus	4	1	0	0	2	2	0	0	15	5	3	1	11	0	0	1	1	1
Turbo undulatus	0	4	0	0	0	0	0	0	226	0	0	0	7	0	0	0	0	0
Uniophora granifera	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	18.1.5	18.1.5	18.2.5	18.2.5	18.4.5	18.4.5	4.1.5	4.1.5	4.2.5	4.2.5	4.3.5	4.3.5	4.4.5	4.4.5	6.1.5	6.1.5	6.2.5	6.2.5
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes ovum	0	0	0	0	0	0	0	0	1	8	2	1	2	1	0	0	3	9
Amblypneustes sp. (Cape Por	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Astrostole scabra	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	5
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	1	1	0	0	1	0	5	1	0	2	8	1	0	0	0	0	0
Cenolia tasmaniae	8	2	17	0	0	11	89	10	76	2	29	2	15	3	0	11	13	52
Cenolia trichoptera	11	105	359	45	0	4	596	196	222	97	59	33	71	263	160	1391	292	927
Centrostephanus rodgersii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cephaloscyllium laticeps	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
Charonia lampas rubicunda	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	0	0	0	0	0	0	0	0	0	8	3	0	1	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	1	0	9	0	1	0	5	3	7	4	72	5	47	2	0	3	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	1	0	0	0	2	17	1	10	1	1	0	0	1	8	5	35
Fromia polypora	2	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Gnathanacanthus goetzii	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	1	0	4	0	0	0	0	0	0	3	12	5	2	15	33	34	30	3
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis rubra	40	25	51	4	45	63	23	17	2	12	6	3	109	85	2	0	21	24
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	0	0	87	2	0	0	131	388	85	326	77	38	81	256	182	176	247	497

bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	18.1.5	18.1.5	18.2.5	18.2.5	18.4.5	18.4.5	4.1.5	4.1.5	4.2.5	4.2.5	4.3.5	4.3.5	4.4.5	4.4.5	6.1.5	6.1.5	6.2.5	6.2.5
Heteroclinus johnstoni	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	2	0	5	0	1	0	0	0	6	0	12	0	4	1	1	2	0	0
Jasus edwardsii	0	0	6	3	11	11	3	3	9	8	2	1	0	2	6	0	1	3
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	1	0	0	1	2	1	0	0	0	0	0	0	1	0	3	2	3	4
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	1	5	0	2	0	0	0	0	0	1	0	0
Pagurid spp.	1	0	0	0	0	0	0	6	0	2	0	11	0	5	1	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	0	0	0	0	0	0	0	1	10	225	0	1	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Pentagonaster dubeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	1	0	0
Petricia vernicina	1	0	2	0	0	2	0	1	0	0	1	0	3	6	7	9	0	0
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	0	0	4	0	2	7	4	7	1	3	5	11	3	6	0	0	0	0
Plectaster decanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleuroploca australasia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranella australasia	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	18.1.5	18.1.5	18.2.5	18.2.5	18.4.5	18.4.5	4.1.5	4.1.5	4.2.5	4.2.5	4.3.5	4.3.5	4.4.5	4.4.5	6.1.5	6.1.5	6.2.5	6.2.5
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	1	0	2	0	0	0	3	0	1	3	1	0	0	0	2	1	8	2
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	1	0	1	1	0	0	1	3	4	0	10	17	2	1	0	0	0	0
Tosia australis	0	0	2	2	0	0	0	1	0	8	0	1	1	7	0	0	0	0
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	1	0	4	0	0	0	0	3	0	3	1	2	9	3	0	0	2	0
Turbo undulatus	168	0	0	0	0	1	0	12	0	1	0	2	0	23	0	0	0	0
Uniophora granifera	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0

bioregion	SE	SE	SE	SE	SE	SE	SE	SE	W	W	W	W	W	W	W	W	W	W
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	6.3.5	6.3.5	6.4.10	6.4.5	6.5.5	6.5.5	6.6.5	6.6.5	23.1.5	23.1.5	23.2.5	23.2.5	23.3.10	23.3.10	24.1.10	24.1.10	24.1.5	24.1.5
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes ovum	12	16	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Amblypneustes sp. (Cape Por	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Asymbolis analis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	2	0	0	0	2	0	0	0	0	0	1	0	0	0	0
Cenolia tasmaniae	0	2	2	1	0	2	0	0	0	0	0	0	4	0	0	0	0	6
Cenolia trichoptera	93	582	62	507	86	541	0	2	0	0	0	5	0	0	0	0	0	0
Centrostephanus rodgersii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Charonia lampas rubicunda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinidae spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	3	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	0	0	0	5	0	0	0	0	0	1	4	3	0	6	0	0	2	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	6	8	0	5	1	3	3	24	0	0	0	0	0	0	0	0	0	0
Fromia polypora	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	79	86	35	0	13	5	0	0	0	0	0	0	5	0	0	0	0	0
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis rubra	8	3	6	40	6	11	0	0	32	26	22	22	97	19	2	1	19	2
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	35	70	0	23	408	303	12	5	195	12	60	23	36	32	0	0	0	0

bioregion	SE	SE	SE	SE	SE	SE	SE	SE	W	W	W	W	W	W	W	W	W	W
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	6.3.5	6.3.5	6.4.10	6.4.5	6.5.5	6.5.5	6.6.5	6.6.5	23.1.5	23.1.5	23.2.5	23.2.5	23.3.10	23.3.10	24.1.10	24.1.10	24.1.5	24.1.5
Heteroclinus johnstoni	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Jasus edwardsii	2	0	2	2	1	6	0	0	0	0	0	0	0	0	9	3	0	4
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	1	2	1	1	3	8	0	0	1	1	1	0	1	0	0	0	0	0
Neosebastes scorpaenoides	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid spp.	1	1	0	2	0	1	0	0	3	1	0	0	0	0	0	0	1	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0
Patiriella calcar	0	0	0	0	0	0	0	0	1249	648	1044	12	0	0	0	0	0	2
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella regularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Pentagonaster dubeni	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0
Petricia vernicina	1	1	0	0	3	2	0	0	1	2	1	0	5	0	2	1	0	1
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	15
Plectaster decanus	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
Pleuroploca australasia	0	2	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0
Ranella australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	SE	SE	SE	SE	SE	SE	SE	SE	W	W	W	W	W	W	W	W	W	W
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
Loc.Sit.Dep	6.3.5	6.3.5	6.4.10	6.4.5	6.5.5	6.5.5	6.6.5	6.6.5	23.1.5	23.1.5	23.2.5	23.2.5	23.3.10	23.3.10	24.1.10	24.1.10	24.1.5	24.1.5
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	5	4	1	0	0	0	0	0	0	0	0	0	0	0
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	1	2	0	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Tosia australis	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0
Tosia magnifica	1	0	0	0	0	0	1	0	0	1	6	4	0	0	0	0	0	0
Trizopagurus strigimanus	1	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Turbo undulatus	0	0	0	0	0	0	0	0	17	50	101	16	2	21	0	0	0	2
Uniophora granifera	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

bioregion	W	W	W	W	W	W	W	W	W	W								
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006								
Loc.Sit.Dep	24.2.5	24.2.5	24.3.5	24.3.5	24.4.10	24.4.10	24.5.10	24.5.10	24.6.5	24.6.5								
Aetapcus maculatus	0	0	0	0	0	0	0	0	0	0								
Amblypneustes ovum	0	0	0	0	0	0	0	0	0	0								
Amblypneustes sp. (Cape Por	0	0	0	0	0	0	0	0	0	0								
Aploactisoma milesii	0	0	0	0	0	0	0	0	0	0								
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0								
Astrostole scabra	0	1	1	0	0	0	0	1	0	1								
Asymbolis analis	0	0	0	0	0	0	0	0	0	0								
Bovichtus angustifrons	0	0	0	0	0	0	2	0	0	0								
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0								
Cabestana spengleri	0	0	0	0	0	1	0	0	0	0								
Cenolia tasmaniae	0	0	0	0	0	8	0	0	0	0								
Cenolia trichoptera	0	0	0	0	0	0	0	0	0	0								
Centrostephanus rodgersii	0	0	0	0	0	0	0	0	0	0								
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	0								
Charonia lampas rubicunda	0	0	0	0	0	0	0	0	0	0								
Chironemus georgianus	0	0	0	0	0	0	0	0	0	1								
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0								
Clinidae spp.	0	0	0	0	0	0	0	0	0	0								
Cominella lineolata	0	0	0	0	0	0	0	0	0	0								
Conger verreauxi	0	0	0	0	0	0	0	0	0	0								
Conus anemone	0	0	0	0	0	0	0	0	0	0								
Coscinasterias muricata	0	0	0	0	0	0	0	0	1	1								
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0								
Cristiceps australis	0	0	0	0	0	0	0	0	0	0								
Dicathais orbita	1	0	0	0	0	4	7	0	2	14								
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0								
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0								
Forsterygion varium	0	0	0	0	0	0	0	0	0	0								
Fromia polypora	0	0	0	0	0	1	0	0	0	0								
Fusinus australis	0	0	0	0	0	0	0	0	0	0								
Genypterus tigerinus	0	1	0	0	0	0	0	0	0	0								
Gnathanacanthus goetzii	0	0	1	0	0	1	0	0	0	0								
Goniocidaris tubaria	0	0	0	0	0	0	0	0	0	0								
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0								
Haliotis rubra	46	1	8	14	15	1	13	70	43	11								
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0								
Heliocidaris erythrogramma	0	0	0	0	0	0	0	0	0	0								

bioregion	W	W	W	W	W	W	W	W	W	W								
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006								
Loc.Sit.Dep	24.2.5	24.2.5	24.3.5	24.3.5	24.4.10	24.4.10	24.5.10	24.5.10	24.6.5	24.6.5								
Heteroclinus johnstoni	0	0	0	0	0	1	0	0	0	0								
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0								
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0								
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0								
Holopneustes inflatus	0	0	0	0	0	0	0	0	0	0								
Jasus edwardsii	0	4	1	1	8	1	2	0	1	3								
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0								
Naxia aurita	0	0	0	0	0	0	0	0	0	0								
Nectocarcinus tuberculatus	0	0	0	0	0	0	0	0	0	0								
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0								
Nectria multispina	0	0	0	0	0	0	0	0	0	0								
Nectria ocellata	0	0	0	0	0	0	0	0	0	0								
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0								
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0								
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	0								
Pagurid spp.	0	0	0	0	1	1	0	0	0	0								
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0								
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0								
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0								
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0								
Parascyllium variolatum	0	0	0	0	0	0	0	0	0	0								
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0								
Patiriella calcar	0	0	0	0	0	0	0	0	0	0								
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0								
Patiriella regularis	0	0	0	0	0	0	0	0	0	0								
Penion mandarinus	0	0	0	0	0	0	0	0	0	0								
Pentagonaster dubeni	0	0	0	0	0	0	0	0	0	0								
Petricia vernicina	1	0	0	0	0	0	0	0	0	0								
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0								
Phasianella australis	0	0	0	0	0	0	0	0	0	0								
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0								
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0								
Plagusia chabrus	1	3	2	0	6	1	6	1	3	0								
Plectaster decanus	0	0	0	0	0	0	0	0	0	0								
Pleuroploca australasia	0	0	0	0	0	0	0	0	0	0								
Ranella australasia	0	0	2	0	0	0	0	0	0	0								
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0								

bioregion	W	W	W	W	W	W	W	W	W	W								
Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006								
Loc.Sit.Dep	24.2.5	24.2.5	24.3.5	24.3.5	24.4.10	24.4.10	24.5.10	24.5.10	24.6.5	24.6.5								
Sassia subdistorta	0	0	0	0	0	0	0	0	0	0								
Scorpaena papillosa	0	0	0	2	0	1	2	0	0	0								
Scutus antipodes	0	0	0	0	0	0	0	0	0	0								
Smilasterias multipara	0	0	0	0	0	0	0	0	0	0								
Stichopus mollis	0	0	0	0	0	0	0	0	0	0								
Tosia australis	0	0	0	0	0	0	0	0	0	0								
Tosia magnifica	0	1	0	0	0	0	0	0	0	0								
Trizopagurus strigimanus	0	0	0	0	1	0	0	0	0	0								
Turbo undulatus	13	0	1	0	1	1	0	0	4	743								
Uniophora granifera	0	0	0	0	0	0	0	0	0	0								

	bioregion	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	10.1.5	10.1.5	10.2.5	10.2.5	10.3.5	10.3.5	10.4.5	10.4.5	10.6.5	10.6.5	10.7.5	10.7.5	10.8.5	10.8.5	21.13.5	21.13.5	21.4.5	21.4.5
Brown algae																			
B	*Acrocarpia* spp.	0.8	1.8	0	0	0	0	0	0	1.5	6.6	0.5	17.7	5	4.8	3.1	7.2	0	0
B	*Carpoglossum confluens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Carpomitra costata*	0	0	0	0	0	0	0	2.6	0	0	0	0	0	0	0	0	0	0.2
B	*Caulocystis* spp.	0	0	0	0	0	0	0	0	6.3	0.6	0	0	0	0	0.8	20.2	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	5.4	3.2	1.2	0	0	0	1.3	1	13.1	11.7	4.3	8.4	3.7	15.1	0.3	10.4	0	0
B	*Cystophora platylobium*	0.7	0	0	0	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora* spp.	0.5	21.6	6	3.6	0	0	0	0	0.4	6.1	3.2	1.6	3	16.3	20	44.2	0	0
B	*Cystophora xiphocarpa*	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0.3	0	0.2	0.4	0	0	0	0	0	0	0	0	0	0	0.7	2.4	0	0
B	*Dictyotacae* spp.	0	3.6	0.9	1	0	0	0	0	0	0.9	0	0	0	0	0	12	0	1.4
B	*Durvillaea potatorum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Ecklonia radiata*	11	34	30.5	0	36.9	52.9	30.3	88.9	8.5	10.2	46	30.9	27.1	34.2	0.1	0	24.6	100.4
B	*Halopteris* spp.	0.1	0	0	0	0	0.8	0	4.5	0	0	0	0	0	0	0	0	0.1	1
B	*Lessonia corrugata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	0	0	0	0	0	0	0	0	8.1	2.3	8.9	11	4.5	0	11.5	0	0	0
B	*Phyllospora comosa*	21.3	0.8	0	0	65.1	51.5	30.2	23.2	0	0	4.5	0	0	0	0	0	79	56.9
B	*Sargassum decipiens*	5	14.2	22.1	1.8	0	0	0	0	2.6	1.4	0	0	0	0	3.4	6.4	0	0
B	*Sargassum heteromorphum*	0	0	0.3	0	0	0	0	0	21.6	44.1	0	0	0	0	0	8.8	0	0
B	*Sargassum sonderi*	0	17.6	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0
B	*Sargassum* spp.	0	15.8	8.1	2.4	0	0	0	1.7	0	0.5	0	0	0.1	0.6	0.9	22.3	0	0
B	*Sargassum varians*	0	1.8	0	0	0	0	0	0	0	3.8	0	0	0	3.3	0	0.6	0	0
B	*Sargassum verruculosum*	0	2.2	2.3	1	0	0	0	0	1.3	0	0	0	9.5	0	0.7	2.8	0	0
B	*Scaberia agardhii*	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	30.9	33.6	11	0	0	0	0	0	0	0	0	0	0	0	8.7	0.6	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0.8	0	0	0	0	0	3.4	3.1	17.6	29.6	9.1	10.1	2.9	0	0	0
B	*Xiphophora gladiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Zonaria* spp.	1.6	2.4	3.6	0	1.6	0.3	0.5	5.8	0.9	2.7	1.1	1.1	0.3	1.9	0.4	3.6	0.3	1.2

	bioregion	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	10.1.5	10.1.5	10.2.5	10.2.5	10.3.5	10.3.5	10.4.5	10.4.5	10.6.5	10.6.5	10.7.5	10.7.5	10.8.5	10.8.5	21.13.5	21.13.5	21.4.5	21.4.5
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0.2	0.4	0	0	0.4	0.3	0	0	0	0
G	*Caulerpa annulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0	0.8	0	0	0	0	9	0	8.6	6.4	5.3	9	9.7	15.4	9.2	9.4	0	0
G	*Caulerpa cactoides*	0	0	6	25.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	11.6	6.8	3.8	0	0	0	0	0	3.8	6.3	0	0	30	5	2.4	3.4	0	0
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	3	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	6.1	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	1.3	0	0	0	0	0	20.4	13.1	0	4	9.8	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
G	*Caulerpa simplisciuscula*	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	1.3	0	0	1	1.4	0	0	0	0	0
G	*Chaetomorpha* spp.	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0.1	0	0	0	0	0	1.1	0.4	0.1	0	0	0	0	1.4	0	0
G	*Codium* spp.	0.9	5	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Ulva* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red algae																			
R	*Ballia* spp.	0	0.4	0	0	0	0.5	0.8	0.2	0	0	0.8	0.8	0	0	0	0	0	0.4
R	*Callophyllis* spp.	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea* spp.	0	0	0	0	0.2	0	0	0	0.1	0	0	0	0	0	0	0	0	0.8
R	*Echinothamnion hystrix*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6
R	*Jeannerettia lobata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0	0	0	0	0	0	0	0.6	0.1	0	0	0.7	0	0	0	0
R	*Lenormandia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia* spp.	0	0	0	0	0	0.6	1.7	0.3	0.8	0	1.3	0.9	1.1	0.8	0.4	0	0	0
R	*Phacelocarpus* spp.	0	0	0.3	0	5.7	6.5	1.1	3.1	4.3	2.2	9.6	9.3	5.3	10.3	10	0	0.3	0

	bioregion	**FI**	**FI**	**FI**	**FI**	**FI**	**FI**	**FI**	**FI**	**FI**	**FI**	**FI**	**FI**	**FI**	**FI**	**FI**	**FI**	**FI**	**FI**
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
	Loc.Sit.Dep	**10.1.5**	**10.1.5**	**10.2.5**	**10.2.5**	**10.3.5**	**10.3.5**	**10.4.5**	**10.4.5**	**10.6.5**	**10.6.5**	**10.7.5**	**10.7.5**	**10.8.5**	**10.8.5**	**21.13.5**	**21.13.5**	**21.4.5**	**21.4.5**
Red algae cont…																			
R	*Plocamium* spp.	1.8	0.2	0	0	1.4	3.9	0.5	3.6	0.5	0.2	9.5	9.4	0.9	1.9	0.8	0	0.3	1.6
R	*Pterocladia capillacea*	0	0	0	0	0	2.6	34.1	9.8	0	8.1	1.3	16.6	0	11.7	0	0	0.1	0
R	*Pterocladia lucida*	0	0	0	0	0	0.8	0	0.6	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Bangia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seagrass																			
S	seagrasses	1	9	0	103.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	bioregion	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	KG	KG	KG	KG	KG	KG	KG	KG
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	21.5.5	21.5.5	21.6.5	21.6.5	21.7.5	21.7.5	21.8.5	21.8.5	21.9.5	21.9.5	11.1.5	11.1.5	11.10.5	11.10.5	11.11.5	11.11.5	11.12.5	11.12.5
Brown algae																			
B	*Acrocarpia* spp.	18.3	44.4	2.2	11.8	0	15	12	49.2	18.2	18	8.3	1.7	9.4	10.2	5.9	6.1	25.6	11.3
B	*Carpoglossum confluens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Carpomitra costata*	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0
B	*Caulocystis* spp.	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	2.5
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	13.8	5.6	0.5	19.1	0	7.2	10.8	17.6	0.6	14.2	23.4	5.2	9.8	5.2	10.5	7	3.5	8
B	*Cystophora platylobium*	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora* spp.	0.7	12.2	3.8	6.8	0	10.6	0.5	0.8	4.7	21.8	0	2.1	1.4	0.5	0	1.6	0.4	7.5
B	*Cystophora xiphocarpa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
B	*Dictyotacae* spp.	0	1.4	0	0	0	0.3	0	0.6	0	5.2	0	0	0.9	0.3	0	0	0.3	0
B	*Durvillaea potatorum*	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Ecklonia radiata*	46.1	57.4	27.8	10.7	1.2	0.5	26.6	37.6	2	11.4	24.3	5.4	55.6	31.8	50.9	47.8	44.8	22.4
B	*Halopteris* spp.	0	0.4	0.4	1.2	0	0.3	2.2	8.8	5.3	2.8	0.2	0	0	0.5	1	5	1.1	0.4
B	*Lessonia corrugata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	1.1	0	0	0	0	0	2.6	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0.6	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	10.1	9.9	5.6	10.1	0	16.4	3.5	6.6	8.9	5.6	2.4	3.5	0	0	0	0	0	2.2
B	*Phyllospora comosa*	16.5	49.8	32.6	31.1	99.7	0	37.9	26.7	0	0	10.1	56.5	0	2.8	8.1	19	6.5	5.1
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	0.2	2.4	0	0	0	0	0	0	0	0
B	*Sargassum heteromorphum*	1.5	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0.5	0	0	12.3
B	*Sargassum sonderi*	0.2	0	0	0	0	0	1	3	0	1.4	0	0	0	0	0	0	0	0
B	*Sargassum* spp.	0	0	0	0.3	0	2	0	0.7	0.4	6.3	0	5.5	0	0	1.5	0.6	0.9	0.4
B	*Sargassum varians*	0	0.8	0	1.2	0	0	0	0	0	2.4	0	0	0	0.3	0	1.2	0	1.4
B	*Sargassum verruculosum*	0	3.2	0	0	0	0	0	0	5.4	1	15.9	0	0.3	0	0.5	1.4	0.2	4.3
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	7.6	0	0	0	0	0	0	16.6	9.6	0.4	0	0	0	0	0	2.9	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0.3	1.4	1.8	0.3	0	4.2	0	0	1.5	1.8	36.7	9.9	8.7	15.4	10.8	7.5	6.4	17.4
B	*Xiphophora gladiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Zonaria* spp.	1.1	1.6	0.5	0.5	0	0.6	1.1	2.4	0	5.1	0.7	0.2	0.9	2.9	0.4	0.2	0	4.2

	bioregion	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	KG	KG	KG	KG	KG	KG	KG	KG
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	21.5.5	21.5.5	21.6.5	21.6.5	21.7.5	21.7.5	21.8.5	21.8.5	21.9.5	21.9.5	11.1.5	11.1.5	11.10.5	11.10.5	11.11.5	11.11.5	11.12.5	11.12.5
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0.1	0	0.2	0	0
G	*Caulerpa annulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0	0.4	0.1	3.4	0	7.2	0	0.4	3	10.8	3.6	6.9	1.2	4.4	0	1	3.4	17.5
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0	1.6	0	0.5	0	0	0	9	0	2.8	0.2	4.8	5	0.8	0	0	0	0
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	3.9	0	0	0	1.1	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0
G	*Chaetomorpha* spp.	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0.2	0.6	0	0.6	0	0	0	0.2	0	0.2	0	0.1	0	0	0	0
G	*Codium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Ulva* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red algae																			
R	*Ballia* spp.	0	0	0	0	0	0	0.1	0.4	0.3	1.4	0.4	2	0.6	0	0.1	2.9	0	0.5
R	*Callophyllis* spp.	0	0	0	4.2	0	4.1	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	1.2	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0
R	*Delisea* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Echinothamnion hystrix*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0	0	0	0	0	0.4	0	0	0	0	0.1	0.1	0	0	0	0
R	*Gigartina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jeannerettia lobata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0	0	0	0	0	0.2	0	0.2	0	1.2	0.8	0	0	0	0	0
R	*Lenormandia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia* spp.	0	0	0	0	0	0	0	0	1.6	0	1.2	1.6	2.2	6.6	0.3	0.4	4.5	1.6
R	*Phacelocarpus* spp.	1.2	0	1.5	2.6	0	0	0.8	0	4.2	11.4	3.5	14.4	20.1	28.2	2.3	1.4	5.8	6.8

	bioregion	FI	FI	FI	FI	FI	FI	FI	FI	FI	FI	KG	KG	KG	KG	KG	KG	KG	KG
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	21.5.5	21.5.5	21.6.5	21.6.5	21.7.5	21.7.5	21.8.5	21.8.5	21.9.5	21.9.5	11.1.5	11.1.5	11.10.5	11.10.5	11.11.5	11.11.5	11.12.5	11.12.5
Red algae cont…																			
R	*Plocamium* spp.	0	0	6.9	7.4	0.4	5	0.2	1.8	5.7	3.2	0.7	12.5	2.5	6.7	0.2	0	1.4	6
R	*Pterocladia capillacea*	0	0	0	0.1	0	0	0	1.4	0	1.4	0	8.6	4	21	16.7	33.2	5.1	40.4
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	0.8	0.5	1.4	0	0	0.4	1.2	0	0	0	5.9	0	0.75	0	0.2	0	0
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Bangia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0
Seagrass																			
S	seagrasses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	2.5	0	0

	bioregion	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KI**	**KI**	**KI**	**KI**	**KI**	**KI**
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
	Loc.Sit.Dep	**11.2.5**	**11.2.5**	**11.3.5**	**11.3.5**	**11.4.5**	**11.4.5**	**11.7.5**	**11.7.5**	**11.8.5**	**11.8.5**	**11.9.5**	**11.9.5**	**8.1.5**	**8.1.5**	**8.2.5**	**8.2.5**	**8.3.5**	**8.3.5**
Brown algae																			
B	*Acrocarpia* spp.	15.3	13.3	3.4	18.7	9.9	6.8	0.4	14.8	0	0	5.8	0.7	0	0	16.4	34.6	12.3	27.4
B	*Carpoglossum confluens*	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0	0
B	*Carpomitra costata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis* spp.	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1.8	2.8	1.8
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	20.8
B	*Cystophora moniliformis*	10.1	9.7	18.4	8.9	20.2	10.5	0	0	2	1.3	7.7	3.5	1.4	0	3.2	14	4.2	15.4
B	*Cystophora platylobium*	0	0	0	0	0	0	0	0	0	0	0	0	3.4	3	0	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.4	0	9	0
B	*Cystophora* spp.	0	4.1	2.4	0	0	16.3	0	1.4	0	0.7	0	0	0.8	0	2.6	7.8	10.8	4.6
B	*Cystophora xiphocarpa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0
B	*Dictyotacae* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.4	0	0
B	*Durvillaea potatorum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Ecklonia radiata*	31.1	33.1	31.9	19.4	39.4	27.9	0.7	7.5	59.3	79.2	2.9	16.4	15.7	38	11.9	4.6	0	9.8
B	*Halopteris* spp.	0.5	1.7	0	0.2	3.4	2.2	0.1	0.1	0	0.4	0	0	0	0	7.7	7	0.2	2.2
B	*Lessonia corrugata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	0	0	1.6	2.5	1.3	0.8	0	0	0	0	0	0	0	0	17.1	16.5	9.1	19.5
B	*Phyllospora comosa*	17.4	40.1	4.8	60.7	15.2	9.4	3.7	20.6	46.7	24.6	76.3	94.8	54	77.1	0	2	0	0.8
B	*Sargassum decipiens*	1.1	0	0.3	0	0.8	9.7	0	0	0	0	0	0	0	0	1.9	0	1	0
B	*Sargassum heteromorphum*	0	2.2	1.2	0	0	3.9	0	0	0	0	0	0	0	0	0	4.4	0	0
B	*Sargassum sonderi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum* spp.	0	1.2	1.2	0	10	0	0.1	0	0	0	0	0	6.4	1.3	0.6	1	0	5.9
B	*Sargassum varians*	0	5.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	1.2
B	*Sargassum verruculosum*	2.3	0	5	0	0.7	11.8	0	0	0	0	0	0	0.5	0	0.7	0	9.1	0.8
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	0	0	0	0	0	0	0	0	0	17.1	21	0.9	1.6	0.4	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	8.8	12	13.9	0.8	2.5	7.2	4.6	0.2	0	0	0	0	0	0	2.7	12.1	14.5	24.5
B	*Xiphophora gladiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Zonaria* spp.	0.3	0	0.1	0.3	0	1.3	0.1	0	0	0.2	0.2	0	0.5	0.6	6.8	5.6	0.7	9.2

	bioregion	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KG	KI	KI	KI	KI	KI	KI
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	11.2.5	11.2.5	11.3.5	11.3.5	11.4.5	11.4.5	11.7.5	11.7.5	11.8.5	11.8.5	11.9.5	11.9.5	8.1.5	8.1.5	8.2.5	8.2.5	8.3.5	8.3.5
Green algae																			
G	*Apjohnia laetevirens*	0	0.1	0.2	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0
G	*Caulerpa annulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	1.2	2.5	7	0.3	0	0.2	0	0	0	0	0	0	0	0	0.6	3	3.2	16.4
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0.8
G	*Caulerpa flexilis*	1.7	0.6	3.9	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	2
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.4	0	2.4
G	*Caulerpa obscura*	0	0	0	0	0	1	0	0	0	0	0	0	0.5	0	7.5	4.2	2.8	5.4
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	2	0.1	1.8
G	*Caulerpa trifaria*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0.5	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	1.7	0
G	*Chaetomorpha* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0.2	2
G	*Codium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0.4	0	0	1.3	0.8
G	*Ulva* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red algae																			
R	*Ballia* spp.	0	0.8	0.2	0	0	0	0	0	0	0.2	0.7	0	0.1	0.8	0	0	0	1
R	*Callophyllis* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	1	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea* spp.	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0
R	*Echinothamnion hystrix*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
R	*Euptilota articulata*	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0
R	*Gigartina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jeannerettia lobata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0.6	0	0	0	0	0	0	0	0	0	0.5	0	0	2	0	0
R	*Lenormandia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia* spp.	0.2	1.3	0	2.2	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus* spp.	0	4.2	6.5	6.8	0.3	1.2	0	0.3	0.3	8.8	3	0	0	0.8	0.3	2.6	0.7	4.4

	bioregion	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KG**	**KI**	**KI**	**KI**	**KI**	**KI**	**KI**
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
	Loc.Sit.Dep	**11.2.5**	**11.2.5**	**11.3.5**	**11.3.5**	**11.4.5**	**11.4.5**	**11.7.5**	**11.7.5**	**11.8.5**	**11.8.5**	**11.9.5**	**11.9.5**	**8.1.5**	**8.1.5**	**8.2.5**	**8.2.5**	**8.3.5**	**8.3.5**
Red algae cont…																			
R	*Plocamium* spp.	0.8	3.45	0.9	8.3	0	0.6	0.1	0	0	1.6	0.6	1.3	0	0.4	1.6	7.9	0.1	9.4
R	*Pterocladia capillacea*	1.9	14.2	4.8	9.1	5.4	19	0	0.9	0	5	0	0	0	0	0	0	0	0
R	*Pterocladia lucida*	0	0.9	0	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.6
R	*Ptilonia australasica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	0	0	0.4	0	0.4	0	0	0	0.1	0	0	0	5.4	0	0.4	0	0
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Bangia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seagrass																			
S	seagrasses	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	0	0	0	0

	bioregion	KI	KI	KI	KI	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	8.4.5	8.4.5	8.5.5	8.5.5	22.1.5	22.1.5	22.2.5	22.2.5	22.3.5	22.3.5	22.4.5	22.4.5	22.5.5	22.5.5	22.6.5	22.6.5	22.7.5	22.7.5
Brown algae																			
B	*Acrocarpia* spp.	0	7.6	25.8	66.4	19.5	46.4	46	46.5	39	25.8	52.6	100.2	35.5	86.8	28.7	37.8	69	54.9
B	*Carpoglossum confluens*	0	1.8	0.4	1	2	2.1	9	9	1.7	9.2	0	2.8	0	0	0	0	3.7	3.5
B	*Carpomitra costata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis* spp.	0	0	1	0	9	12.1	0	4	0.5	2.8	0.9	1.2	0	6.6	0	0	0	0
B	*Cystophora grevillei*	0	21	0	14.6	0	12	0	3.6	0	0.6	0	12	0	0	0	0	0	0.4
B	*Cystophora moniliformis*	0.9	1.8	8.4	5.4	0.6	2.2	3.3	14.2	2.1	7.4	15.7	5.4	0	22.8	0.6	16	11.4	2
B	*Cystophora platylobium*	0.4	0	0	0	0	0	0	1.6	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retorta*	0.3	0	32.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora* spp.	0	9	1.5	19.6	15.1	5.9	0.7	0	6.8	31.4	19.7	12	0.2	27.8	4.5	16.2	8.8	7.5
B	*Cystophora xiphocarpa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0
B	*Dictyopteris muelleri*	0	0	0	0	0	0.9	0	0	0	0	0	0.4	0	0	0	0	0	0.2
B	*Dictyotacae* spp.	0	0	1.7	0	0	0.5	0	0.2	0	2.4	0	6.2	1.3	1.4	0	1.8	0	2.6
B	*Durvillaea potatorum*	4.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Ecklonia radiata*	0	0	0	0	0.1	1.1	0	0.3	0.4	10	0	12.6	7.4	1.2	24.5	15.6	0	0
B	*Halopteris* spp.	0	3	0	0.2	0	5.3	1.1	0.9	0.6	12	1.6	9.6	1	3.6	8.1	4	0.8	2.8
B	*Lessonia corrugata*	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	0.6	2.6	2.2	3.8	2.3	0	0	1.6	0	6.2	0	7	0.2	2.8	1.8	0	2.4	4.7
B	*Phyllospora comosa*	79.8	0	0	0	0	0	0.1	25.1	0	0	0	0	0	0	0	0	0	0
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum heteromorphum*	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0
B	*Sargassum sonderi*	0	0	0	0	7.1	5.9	2.6	0	6.6	0	7.3	13.2	1.3	0	6	1.8	1.1	0.7
B	*Sargassum* spp.	0.3	0.2	0	0	4.4	1	2.8	3.9	2.2	3.4	3.1	1	0.8	3	0.3	0	0.6	1.1
B	*Sargassum varians*	0	0	0	0	3.8	0	0.1	0	1	1.8	0.5	0	5.7	0.2	0	0	0	0
B	*Sargassum verruculosum*	0	1.4	0	0	0.5	0	0	0	0	0.4	0	0	0	0	0	0	0	0
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.1	0	0	0
B	*Seirococcus axillaris*	6.6	0	0.3	38.4	0.3	0	2.4	0	1.8	2.5	10.6	10.8	1.8	5	1.5	0	9	16.5
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0.5	17.6	0.6	0.4	2.7	1	0.4	0	0.5	0.7	0	1.2	8.8	9.7	0	0	0	0
B	*Xiphophora gladiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Zonaria* spp.	0	0	1.4	1.2	13.6	10.2	10.1	3.1	5.8	6.7	3.7	8.4	14.5	7.2	16.4	10.8	6.7	4.6

	bioregion	KI	KI	KI	KI	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	8.4.5	8.4.5	8.5.5	8.5.5	22.1.5	22.1.5	22.2.5	22.2.5	22.3.5	22.3.5	22.4.5	22.4.5	22.5.5	22.5.5	22.6.5	22.6.5	22.7.5	22.7.5
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa annulata*	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0.3	1.8	1.9	17.8	0.3	2.9	0.7	0	0.4	4.8	0.2	0	0.8	1	0	4.2	0	0
G	*Caulerpa cactoides*	0	5.4	2.6	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0	0.2	0	0.6	5.7	0.4	0	0	0	3.6	0.2	1.8	0.3	1	0.1	0	0	0.7
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0	0	0.6	0	0	0.2	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	2.6	0	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa obscura*	1.2	0.6	6.1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	2.2	0	0	0.1	0.1	0	0	0	0	0	0	0	0	0.3	0	0	0
G	*Caulerpa simplisciuscula*	0	1.8	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	4.2	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	3	0.1	0	0	0.1	0	0	0	0.8	0	0.2	0.1	0	0	0	0.1	0.2
G	*Codium* spp.	0	3.8	0	0	0	0	0	0	0	0	0	0	1.1	0	0	0	0	0
G	*Ulva* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red algae																			
R	*Ballia* spp.	0.5	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0
R	*Callophyllis* spp.	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0
R	*Champia viridis*	0	0.4	0	0	0	0.1	0	0.2	0	0	0	0.4	0	0	0	0	0	0.2
R	*Delisea* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Echinothamnion hystrix*	0	0	0	0	0	1.1	0	0	0	17.4	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jeannerettia lobata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0.3	0.6	0	0	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus* spp.	0	0	1	9	0	0	0	0	0	0	0	1.8	0	0	0	0	0	0

	bioregion	KI	KI	KI	KI	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	8.4.5	8.4.5	8.5.5	8.5.5	22.1.5	22.1.5	22.2.5	22.2.5	22.3.5	22.3.5	22.4.5	22.4.5	22.5.5	22.5.5	22.6.5	22.6.5	22.7.5	22.7.5
Red algae cont…																			
R	*Plocamium* spp.	0.5	5.8	0	7.9	0	0	0	0	0	1.6	0	0.6	0	0	1.7	0	0	0.1
R	*Pterocladia capillacea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	1.9	0	0.2	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Bangia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seagrass																			
S	seagrasses	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	0

	bioregion	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	22.8.5	22.8.5	7.1.5	7.1.5	7.2.5	7.2.5	7.3.5	7.3.5	7.4.5	7.4.5	9.1.5	9.1.5	9.2.5	9.2.5	9.3.5	9.3.5	9.4.5	9.4.5
Brown algae																			
B	*Acrocarpia* spp.	0.6	0.2	46.4	58.2	79.6	1.3	57.1	123.6	26.3	5.8	18.8	43.6	36.5	33.8	40.1	38.6	29.7	64.6
B	*Carpoglossum confluens*	2.3	0.2	0.2	0.2	3.7	0	1.1	2.2	0	0	0.2	0	0.8	0	0.5	4.2	0.2	0
B	*Carpomitra costata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis* spp.	0	0	1.7	0.6	0	0.3	0	0	2.5	13.6	0	1.6	0	0	0.2	1.4	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	7.4	0.3	7.5	13	9.4	3.3	21.1	24	8.1	12	0	9.6	4.2	7.8	10	7.8	1.8	17
B	*Cystophora platylobium*	0.1	0	0	0	0	0	0	0	0	0	0	0	4.4	0	0.1	0	3	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora* spp.	5.8	1.7	2.5	9.6	0	18.4	5.5	6.8	22.2	34.4	4.7	6.6	2	9.8	7.5	12.4	3.3	7.4
B	*Cystophora xiphocarpa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	0	0	0	6.6	0	0	8.6	0.8	0	2.4	0	0	0	0	0	0
B	*Dictyotacae* spp.	0	0	0.4	0.6	0	1.1	0	0.6	0	3.8	0	2.6	0	2.6	0	5.2	0	1.8
B	*Durvillaea potatorum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Ecklonia radiata*	34.8	0.9	0.2	0	0.1	1.8	0	0.6	0	0	0.5	0	16.1	40.4	4.8	31.4	43.4	9.4
B	*Halopteris* spp.	3.8	0.6	8.1	14.8	0.1	0	0.1	0.4	0	0	0	3	0.3	3.2	0.5	4	1	7.8
B	*Lessonia corrugata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.2	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0.4	9.8	0	65.4
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	0	0	3.4	0	1.2	0	1.1	1.6	2.5	0	1.9	1	5.9	1.9	3.9	9.2	2.2	2.1
B	*Phyllospora comosa*	4.6	1.2	5.6	28.9	0	0	0	0	0	0	0	0	19.1	47.1	0	37.9	13.4	14.4
B	*Sargassum decipiens*	0	0	0	0	0	2.9	0	0	0	11.2	3.2	0	0.6	0	6.9	2.8	0.8	0
B	*Sargassum heteromorphum*	0	0	0.4	1	0	3.5	0	0	0.4	2.3	0.3	1.6	0	0	0	0	0	0
B	*Sargassum sonderi*	3.4	0	0	5.6	3	0.4	0	2	1.5	0	0	0.5	0	2.7	0	3	0	1
B	*Sargassum* spp.	11.3	0.3	5.9	2.4	1.4	4	1.9	3.7	1.1	2.2	1.4	1.8	2.8	1.2	0.9	1.6	1.8	2.4
B	*Sargassum varians*	0.5	0	8.2	0	0.7	1.4	4.6	0	10.1	0.6	2.9	0	1.7	0	0.5	0	0	0
B	*Sargassum verruculosum*	0.7	0	0	1	0	4.8	0	0	1.1	5.8	0	0	0	0	0.2	0	0	0
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	5	2.2	6.1	1.7	29.8	0	36.1	8.8	13.8	0	0.2	0	0	0	0	0.2	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	2.9	0	1.5	0	0	4.3	5.4	0	0	0	0	0	0	0	0
B	*Xiphophora gladiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Zonaria* spp.	2.8	0.2	2	3.4	1.4	5.4	2.5	3.9	11.2	4.5	7.7	6.9	7.3	1.7	5.3	6.7	1.4	2.7

	bioregion	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	22.8.5	22.8.5	7.1.5	7.1.5	7.2.5	7.2.5	7.3.5	7.3.5	7.4.5	7.4.5	9.1.5	9.1.5	9.2.5	9.2.5	9.3.5	9.3.5	9.4.5	9.4.5
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa annulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0.1	0	4.3	23.6	0	1.9	0	16.4	0	3.4	0.3	7.6	0	3	0.9	1.2	0	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	1.3	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0	0	2.6	0.4	0.2	1.2	0	0	0.6	0.2	1.4	13.4	0.6	3.6	0.3	0.8	0	0
G	*Caulerpa geminata*	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0.2	0.4	0	0.6	0	0	0	0.8	0	0.8	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0.1	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0	0.8	0	0.4	0	0.4	0	1.2	0	0.2	0	0	0	0	0	0
G	*Codium* spp.	0	0	0	0	0	0.5	0	0	0	0	0.4	0	0	0	0	0	0	0
G	*Ulva* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red algae																			
R	*Ballia* spp.	0	0	0	1.8	0.2	0	0	0	0	0	0	0	0.2	0	0	0	0	0
R	*Callophyllis* spp.	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Echinothamnion hystrix*	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jeannerettia lobata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia* spp.	0	0	0	4	0	0	0	0.6	0	0	0	0	0.2	0	0	1.6	0	0
R	*Phacelocarpus* spp.	0	0	1.1	1.4	0.7	0	0.8	0	0	0	0.4	0	0	0	0	0	0.2	0

	bioregion	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	22.8.5	22.8.5	7.1.5	7.1.5	7.2.5	7.2.5	7.3.5	7.3.5	7.4.5	7.4.5	9.1.5	9.1.5	9.2.5	9.2.5	9.3.5	9.3.5	9.4.5	9.4.5
Red algae cont…																			
R	*Plocamium* spp.	0.6	1.1	3.2	11.5	1.9	1.5	1.3	4.8	0	0	0	0	0.4	0	0	1.8	0	0.8
R	*Pterocladia capillacea*	0	0	0	0	0	0	3.2	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	0	0	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Bangia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Camontagnea oxyclada*	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seagrass																			
S	seagrasses	0.8	66.5	0	0	0	15.6	0	0	0	42.2	0	0	0	0	0	0	0	0

	bioregion	N	N	N	N	N	N	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	9.5.5	9.5.5	9.6.5	9.6.5	9.7.5	9.7.5	0.1.10	0.1.10	0.1.5	0.1.5	0.2.5	0.2.5	0.3.5	0.3.5	0.4.10	0.4.10	0.5.5	0.5.5
Brown algae																			
B	*Acrocarpia* spp.	7.1	2.6	10	53.2	65.8	94.2	0	2.4	0	10.6	2.6	1.3	3.7	3	1.5	6.6	0	1
B	*Carpoglossum confluens*	8	0	12.7	2.4	4.9	0	0	4.6	0	0	1.7	0	0	0	0	0	0	0
B	*Carpomitra costata*	0	0	0	0	0	0	0	0.8	0.1	0	0	1.2	0	0	0	0	0	0
B	*Caulocystis* spp.	0	16.2	0	0	1.2	7.4	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6
B	*Cystophora moniliformis*	1.7	15.6	0	8.8	2.8	53.8	0	0.8	0	0.7	0.2	0	0	5	0	0	0	0
B	*Cystophora platylobium*	0.8	0	0	1.2	0	2.4	0	0	0	0	0	0	0.5	2.4	0	0.8	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora* spp.	19.8	36.6	2.2	0.6	0.9	9.2	0	0	0	1	27	10.5	0	0	0	0	0	0
B	*Cystophora xiphocarpa*	0	0	0.8	0	3.3	0	0	0	0	0	0	0	0	0	0	1.2	0	0
B	*Dictyopteris muelleri*	0	2.6	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0	0
B	*Dictyotacae* spp.	0	0.8	0	1.8	0	2.8	1	0.2	0	0	0	0	0	0.4	0	0.6	0	0
B	*Durvillaea potatorum*	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0
B	*Ecklonia radiata*	29.8	9.4	50	102	15.2	8.4	38.5	115.6	52.1	34.4	47.4	47.3	60.1	101.4	49.2	157.4	20.4	1
B	*Halopteris* spp.	0.4	0	2.2	4.2	1.3	0.8	0	0	0.6	1.2	0.6	1	0	1.6	0.3	5	0	0
B	*Lessonia corrugata*	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	0.3	0	0	0	0.4	4	0	0	0	0	0	0	0	0	0	0	0	0
B	*Phyllospora comosa*	1.6	30	1.6	16.4	0.2	19.6	23.3	22.6	57.9	26.8	36	58.5	29.7	10	24.2	7.7	75.8	88.4
B	*Sargassum decipiens*	16.3	0	3	0	1.7	0	0	0	0	0	2.1	0	0	0	0	0	0	0
B	*Sargassum heteromorphum*	0	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum sonderi*	0	0	5	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum* spp.	1.6	3	0.9	2.3	1.1	0	0.3	0	0.8	0.1	1.1	0	1.8	2.8	0	2.7	0.3	0
B	*Sargassum varians*	5.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum verruculosum*	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	1	0	5.4	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora gladiata*	0	0	0	0	0	0	0	0	1.7	11.8	0	0	0	0.6	1	0	0	0
B	*Zonaria* spp.	4.4	3.9	0.5	3.3	3.8	3.9	0	0.2	0	0	0	16	0	1.6	0	1.2	0	9.4

	bioregion	N	N	N	N	N	N	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	9.5.5	9.5.5	9.6.5	9.6.5	9.7.5	9.7.5	0.1.10	0.1.10	0.1.5	0.1.5	0.2.5	0.2.5	0.3.5	0.3.5	0.4.10	0.4.10	0.5.5	0.5.5
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa annulata*	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0.7	5.2	0.2	0.2	0	5.6	0	0.2	0.2	0	0	0	0	3	0	0	0	0
G	*Caulerpa cactoides*	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0.3	2	0	3.4	0	0.2	0	0.4	0	0	2.8	0	0	0.2	0	0	0	0
G	*Caulerpa geminata*	0	0	0	0	0.6	0	0	0	0	0	0.1	0	0	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0.3	12.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0.6	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	3.2	0	0	0	0	0	0	0	0	0.2	0.3	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0.2	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	1.2	0	0	0	0	1.3	0	0	0	3.8	0	0	0	0	0	0	0
G	*Ulva* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.4
Red algae																			
R	*Ballia* spp.	0	0	0.3	1.4	0	0	0.8	8	0	1	0.8	0.6	1.7	10.4	1.8	0.8	0.1	0.2
R	*Callophyllis* spp.	0	0	0	0	0	0	0	0	0.1	0	0	0	0.6	1	0.5	0	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	0	0.7	0	1.1	0	0	0.4	5.8	0	0	0	0	0.8	0	0	0	0
R	*Delisea* spp.	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0.2	1.9	10.4	0	0
R	*Echinothamnion hystrix*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3
R	*Gigartina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	3.6	0	0	0	0.1
R	*Jeannerettia lobata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0.8	0	0	0	0	0	0.6	0	0.4	1.9	0	0	0.2	0	0.4	0	0
R	*Lenormandia* spp.	0	0	0	0	0	0	1.3	2.2	0.1	0	2.9	1.1	0.1	0	0	0.6	0	0
R	*Melanthalia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	2.5	3.8	0	0	0	0
R	*Phacelocarpus* spp.	0	0	0	0	0	0	3.9	11.9	0.6	3.9	0.9	0	2.5	1.3	17.6	2	0	0

	bioregion	N	N	N	N	N	N	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	9.5.5	9.5.5	9.6.5	9.6.5	9.7.5	9.7.5	0.1.10	0.1.10	0.1.5	0.1.5	0.2.5	0.2.5	0.3.5	0.3.5	0.4.10	0.4.10	0.5.5	0.5.5
Red algae cont…																			
R	*Plocamium* spp.	0	0.2	2.3	0.8	7	2.3	2.6	8.9	3.4	5.1	7.4	6.2	4.9	7.4	12.4	24.7	0.6	1
R	*Pterocladia capillacea*	0	0	0	0	0.5	0	0	0	0	0	0	0.2	0	0	0	4.4	0	0
R	*Pterocladia lucida*	0	0	0	0	0	0	0	3.8	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	14.7	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0	0	0	0	0	0	1.2	0	0.1	0.9	0.4	0	0	0	4.4	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	0	1.8	0	0	0.2	0	2.6	0.4	0	0.7	0.9	0	4.4	0	0	0	0
R	*Thamnoclonium dichotomum*	0	0	2.4	1.4	0	0	0.2	0	0	0	0	0.5	0	0	0	1.2	0	0
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Bangia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seagrass																			
S	seagrasses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Yeargroup	1994	2006	1994	2006	1994	2006	2006	1994	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	0.6.5	0.6.5	0.7.10	0.7.10	0.8.5	0.8.5	0.9.10	0.9.5	13.1.10	13.1.10	13.1.5	13.1.5	13.2.5	13.2.5	13.3.10	13.3.10	14.1.5	14.1.5
Brown algae		1.3	1	0	0	0.4	2.4	0	0	0	0	0	0	0	0	0	0	0	0
B	*Acrocarpia* spp.	2.6	1.2	0	0	0	0	4.6	1.8	0	0	0	0	0	0	0	0	0	5.8
B	*Carpoglossum confluens*	0	0.8	0.1	1	0	0.2	2.6	0.9	0	0.4	0	0	0	0	0	0.4	0	0.1
B	*Carpomitra costata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	0	0	0	0	0	1.2	0	0	0.1	0	0	0	0	0	0	0	0	3
B	*Cystophora platylobium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retorta*	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora* spp.	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0
B	*Cystophora xiphocarpa*	0	0.3	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	1.1	0.4	0	0	0	2.8	8.6	0.2	0	0	0	0	0	0	0	0	0	2.1
B	*Dictyotacae* spp.	0	0	0	0	3.8	30.6	0	0	0	0	8.3	11.2	0	0	0	0	0	0
B	*Durvillaea potatorum*	67.3	44.8	42.1	120.4	17.6	49.2	92.6	55.1	39	20.1	19.9	3.1	8.8	30.2	49.5	35.1	23.2	35.4
B	*Ecklonia radiata*	1	1.5	0.1	0	0	0.4	3.6	0.4	0	0	5.1	0.2	0	0.9	0	0	0.3	0
B	*Halopteris* spp.	0	0	0	0	2.5	0.4	0.2	0	0	0	9.5	0.3	0	0	0	0	0	0
B	*Lessonia corrugata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	15.2	46.7	46.3	19.1	76.2	15.6	25.4	28.8	52	64.4	54	77.5	66.8	70.9	43.4	73.5	81.2	42.2
B	*Phyllospora comosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum sonderi*	2.2	0.5	1.4	0.3	0.1	1.2	0	0	0	0	1.9	0	0	0.1	0	0	0	1.5
B	*Sargassum* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum varians*	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0
B	*Sargassum verruculosum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	1.3	1.9	0	0	0.1	0	0	1.3	0	0	0	0	0	1.3
B	*Xiphophora gladiata*	2.6	9.6	0.1	0.5	0.2	0	1.6	0.3	0	0.4	0	0	0.3	1.9	0	0	1.9	0.6
B	*Zonaria* spp.																		

	bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Yeargroup	1994	2006	1994	2006	1994	2006	2006	1994	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	0.6.5	0.6.5	0.7.10	0.7.10	0.8.5	0.8.5	0.9.10	0.9.5	13.1.10	13.1.10	13.1.5	13.1.5	13.2.5	13.2.5	13.3.10	13.3.10	14.1.5	14.1.5
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa annulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	1.3	0	0	1	0	0	3.6	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa geminata*	0	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	3.2	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha* spp.	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	1.9	0	0	0	0	0	1	2	0	0	0	1.5	0	0	0.2	0	0	0
G	*Ulva* spp.	0	0.2	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0
Red algae																			
R	*Ballia* spp.	0.3	3	0.9	4.4	0.9	2	7	1.9	0.2	3.5	0	0.2	0	0	2.5	2	0	2.1
R	*Callophyllis* spp.	0	0.2	0	0.6	0	0	0	0.1	0.4	1.6	0	0	0	0	0.9	1.7	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	0.5	0	0	0	0	0	2.8	0	0	0	0	0	0	0.3	0	0	0.3
R	*Delisea* spp.	0	0	0	0	0	0	7.4	1.4	0	0	0	0	0	0	0	0	0	0
R	*Echinothamnion hystrix*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0.2	0	0	0	0	0.1	0.1	0	0	0	0	0	0	0	0	0
R	*Gigartina* spp.	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	0.1	0	0	0	0	0.1	0	0	0	0	0	0	0.2	0	0	0
R	*Jeannerettia lobata*	0	1.2	0	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0.2	0.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia* spp.	0	3.1	0.5	1.4	0	0.4	5.6	1	0.4	1	0	0	0	0	0	1.1	0	0
R	*Melanthalia* spp.	0	0	0	0.6	0	0	0	1.2	0	0	0	0	0	0	0	0	0	1.3
R	*Phacelocarpus* spp.	0	0	1.8	1	6.8	4.1	1.8	9.8	1	1.6	0.1	0	0	0	1.3	0.6	0	2.6

	bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**2006**	**1994**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
	Loc.Sit.Dep	**0.6.5**	**0.6.5**	**0.7.10**	**0.7.10**	**0.8.5**	**0.8.5**	**0.9.10**	**0.9.5**	**13.1.10**	**13.1.10**	**13.1.5**	**13.1.5**	**13.2.5**	**13.2.5**	**13.3.10**	**13.3.10**	**14.1.5**	**14.1.5**
Red algae cont…																			
R	*Plocamium* spp.	4	15.2	5.9	8.6	2.3	11.7	9.8	3.6	0.6	4.2	0	0	0	1.3	1.8	0.4	0	13.3
R	*Pterocladia capillacea*	0	0	0	0	0	0	1.2	0	0	0	0	0.4	0	0	0	0	0	0
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0.4	0.2	0	0	0	0.4	5.8	0.8	0	0	0	0	0	0	0	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	2.4	0	0	0	2.4	0	0.4	0.5	2.4	0	0	0	0	2.1	3.1	0	2
R	*Thamnoclonium dichotomum*	0.3	1.2	0	0	0	0	1.1	0	0.1	0	0	0	0	0	0.4	0	0	0
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Bangia* spp.	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0
Seagrass																			
S	seagrasses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	14.2.5	14.2.5	14.3.5	14.3.5	14.4.5	14.4.5	19.1.5	19.1.5	19.2.5	19.2.5	19.3.10	19.3.10	19.3.5	19.3.5	19.4.5	19.4.5	19.5.10	19.5.10
Brown algae																			
B	*Acrocarpia* spp.	0	4.2	0	0	0	1	0	0	0	0	3.6	0	0.2	0	1.7	0	1.6	1.4
B	*Carpoglossum confluens*	2.6	0	0	11.4	0	0	0	0	0	0	0.9	0.6	0	0	6.7	0	0	0
B	*Carpomitra costata*	0	0	0	0.2	0	0	0	1.2	0	0.4	0.2	0.4	0.1	0.4	1	0	1.7	0.4
B	*Caulocystis* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora platylobium*	0	0	0	0	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora xiphocarpa*	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0
B	*Dictyotacae* spp.	0	0.1	0.2	0.4	0	0	0	1.2	0	0	0	0.3	0	0	0.9	2.2	0	0
B	*Durvillaea potatorum*	0	0	0	0	0	0	0	0	17.4	35.6	0	0	3.5	0	0	1.2	0	0
B	*Ecklonia radiata*	53.9	14.6	68.7	55.6	75.4	49.4	32.3	75.4	23.8	28	79.2	48.6	57.1	44.6	54.7	55	31.7	44.2
B	*Halopteris* spp.	0	0.1	0	0	0	0	0	4.2	0	0	6.9	1.1	0	0.2	6.3	2	0.1	0.4
B	*Lessonia corrugata*	0	0	0	0	0	0	0	0	17	1.8	0	0	1.5	0	0	0	0.2	5.2
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Phyllospora comosa*	66.3	58.3	0.1	65.3	2.9	4.5	69.7	55.4	53	70.5	18.3	17	47.9	249.4	46.6	66.5	65.5	63
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum sonderi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum* spp.	0.4	3.5	1.7	1.6	3.5	0.5	0.2	0	0	0	0	0	0	0	0.2	0	0	0
B	*Sargassum varians*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum verruculosum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora gladiata*	0	0	0	0	0	1.5	0	11.8	0.5	1.8	0.3	0	0	0	0.6	0	0	0
B	*Zonaria* spp.	0	0.2	2.5	0.2	5.5	0.2	0	0.2	0	0	0	0.2	0	0	1.2	5.6	0.1	0.2

	bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	14.2.5	14.2.5	14.3.5	14.3.5	14.4.5	14.4.5	19.1.5	19.1.5	19.2.5	19.2.5	19.3.10	19.3.10	19.3.5	19.3.5	19.4.5	19.4.5	19.5.10	19.5.10
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa annulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0	0.8	0	0	0	4	0	0	0	0	0.2	0	0	0	0	0	0.2	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0	0	0.4	0	3.1	0.7	0	0	0	0	2.2	0	0	0	0	0.6	0	0
G	*Caulerpa geminata*	0	0	0.5	0	4	0.3	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0.3	1.1	0	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha* spp.	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4
G	*Codium dimorphum*	0	0	0	0	0	0.3	0	0	0.7	1.4	0	0	0	0	0	0.2	0	0
G	*Codium pomoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	0	0.9	0	5	1.1	0	0	0	0	0	0	0.6	0	0	0	0	0
G	*Ulva* spp.	0	2.5	0.7	2.8	0.4	0.8	0	0	0	0	0	0	0	0	0.6	0	0	0
Red algae																			
R	*Ballia* spp.	0.6	0.1	0.2	2.8	0	0	0	0	2.4	1.4	3.4	0.1	3.8	1.2	1.7	0	1.4	5.4
R	*Callophyllis* spp.	0.8	0	0	2.6	0	0	0	0	0	0	0	0	0.5	0	1.3	0	0.5	0.6
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	0	0	2.4	3.6	4.5	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea* spp.	0.6	0	0	0.6	0	0.2	0	0	0	0	0	0	0	0	0	0	1.1	0
R	*Echinothamnion hystrix*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0.8	0	0	4.2	0	0	0	0	0.5	0	0.2	0	0.3	0	0.3	0
R	*Gigartina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	0	1	0	0.4	0	0	0	0	0	0	0	0	0.4	0	0.1	0
R	*Jeannerettia lobata*	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0	0.4	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia* spp.	0.2	0	3.5	0	4.3	0.8	0	0	0	0	0.2	0	0.4	0	0.7	0.6	0.2	0.8
R	*Melanthalia* spp.	0	0	0	0	0.6	0.5	0	0.2	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus* spp.	0.4	0	5.2	0	4	3.6	0	0	0	0	3.9	0.1	0.4	0	1.5	0	3.4	1.8

	bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
	Loc.Sit.Dep	**14.2.5**	**14.2.5**	**14.3.5**	**14.3.5**	**14.4.5**	**14.4.5**	**19.1.5**	**19.1.5**	**19.2.5**	**19.2.5**	**19.3.10**	**19.3.10**	**19.3.5**	**19.3.5**	**19.4.5**	**19.4.5**	**19.5.10**	**19.5.10**
Red algae cont…																			
R	*Plocamium* spp.	12.7	0	2.4	5.6	4.6	12.8	0	0.6	0.9	0.8	2	2	2.1	0.6	2.2	4.8	1.8	7.5
R	*Pterocladia capillacea*	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0	0	0	0	0.5	0	0	0	0	1	0	0	0.4	0.4	0	0	0.4
R	*Rhodoglossum gigartinoides*	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	0	0	0	1.8	2.3	0	0	0	1	1	1.5	0.4	0.4	0	0	1.9	4.2
R	*Thamnoclonium dichotomum*	0	0	1.7	0	5.9	0.9	0	0	0	0	0	0	0	0	0	0	0.4	0.8
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Bangia* spp.	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0.7	0	0	0
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.5	0	0	0
Seagrass																			
S	seagrasses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	19.5.5	19.5.5	19.6.5	19.6.5	19.7.5	19.7.5	2.1.5	2.1.5	2.2.5	2.2.5	2.3.5	2.3.5	2.4.5	2.4.5	2.5.5	2.5.5	2.6.5	2.6.5
Brown algae																			
B	*Acrocarpia* spp.	0	0	0	0	0	0	2	11.8	0	1.3	0	5	4.6	7.7	0.4	0.3	1.2	4.1
B	*Carpoglossum confluens*	0	0	0	0	1.3	0	0	1.3	7.4	3.1	0	0.2	2.6	0.9	1.3	2.5	2.5	0.3
B	*Carpomitra costata*	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	3.1	0.9	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	0	0	0	0	14.8	0.2	0.6	3.7	0	0	0.5	7.3	2.1	1	0	3.7	3.1	17.8
B	*Cystophora platylobium*	0	0	0	0	0	1	0.8	0.2	0	0	0	0	0	0	0	0	0	1.4
B	*Cystophora retorta*	0	0	0	0	0.3	0	0	0	0	0	0	1.2	0	0	0.6	0	0	0
B	*Cystophora* spp.	0	0	0	0	0.3	0	0.7	0.4	33.1	7.7	0	0	5	4.8	52.4	70.2	10.3	0
B	*Cystophora xiphocarpa*	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	0	0	0	0	0	0	0	1.7	0	0	0	0	0.1	0.2	0	0
B	*Dictyotacae* spp.	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	10.1	2.7
B	*Durvillaea potatorum*	1.4	20.7	18.3	26.2	0	1	0	0.4	0	0	0	0	0	0	0	0	0	0
B	*Ecklonia radiata*	15.3	4.7	9.8	1.7	11.4	2.6	12.6	9.3	19.8	8.8	2.7	8.7	25.2	49	4.7	10.7	8	4.5
B	*Halopteris* spp.	0.1	1.7	0	0	0.8	0	0	1.4	0.3	0	0	0	0	0	1.4	0	3	3.5
B	*Lessonia corrugata*	10.5	3	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0
B	*Phyllospora comosa*	75.1	70.5	74.5	74.5	47.1	84.5	86.2	50.6	0	0	94.1	83.4	56.6	51.3	0	1.5	0.3	17
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	0.2	0	0	0	0.1	1.2	11	1.4	5.8	0
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum sonderi*	0	0	0	0	0	0	0	0	0	0	0	0.3	0	5.2	0	7	0	0
B	*Sargassum* spp.	0	0	0	0	4.9	10	0.1	0	13.8	2.6	0	0	0.3	0.4	0.1	0	1.5	3
B	*Sargassum varians*	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum verruculosum*	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0
B	*Seirococcus axillaris*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	37.2	43.2	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0.1	0.3
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora gladiata*	0	0	0	0	0	0	0	2.2	0	0	0	0	0	0	0	0	0	0
B	*Zonaria* spp.	0	0	0	0	1.9	0	1.3	4.8	3.9	3.9	0	0	9.1	13.6	9.4	20.9	18.4	6.7

	bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	19.5.5	19.5.5	19.6.5	19.6.5	19.7.5	19.7.5	2.1.5	2.1.5	2.2.5	2.2.5	2.3.5	2.3.5	2.4.5	2.4.5	2.5.5	2.5.5	2.6.5	2.6.5
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa annulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.1	0	0	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0	0	0	0	0	0	0	0	0	0	0	0	3.5	0	5.2	0.2	0	0
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0.2	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha* spp.	0	0.6	0	0	0	0.2	0	0.6	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	0	0	0	0	0	0	0.2	0	0	0	0	1.2	0	1.2	0	0.8	0
G	*Ulva* spp.	0	0	0	0	0	0	0	0	0.1	0	0	0.5	0	0	0	0	0.5	0
Red algae																			
R	*Ballia* spp.	3.2	1	0.9	0	0	0.8	0.4	1.7	0	0	0	0	0.2	0	0	0	0	0
R	*Callophyllis* spp.	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.3	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Echinothamnion hystrix*	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0.5
R	*Euptilota articulata*	0	0.2	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jeannerettia lobata*	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia* spp.	0	0	0	0	0	0.2	0	0.2	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia* spp.	0	0	0	1.1	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus* spp.	0	0	0.4	0	0	0	0	1.5	0	0	0	0	0	0.2	0.5	0	0	0

	bioregion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
	Loc.Sit.Dep	**19.5.5**	**19.5.5**	**19.6.5**	**19.6.5**	**19.7.5**	**19.7.5**	**2.1.5**	**2.1.5**	**2.2.5**	**2.2.5**	**2.3.5**	**2.3.5**	**2.4.5**	**2.4.5**	**2.5.5**	**2.5.5**	**2.6.5**	**2.6.5**
Red algae cont…																			
R	*Plocamium* spp.	1	0.4	1.3	0	0	0	1	4.8	0.9	0	0	0	2.3	0.8	0	0.3	1.5	0
R	*Pterocladia capillacea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia lucida*	0	0	0	0	0	0	0	2.1	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	0.5	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Bangia* spp.	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0
R	*Camontagnea oxyclada*	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
Seagrass																			
S	seagrasses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	bioregion	NE	NE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	2.7.5	2.7.5	16.4.5	16.4.5	16.5.5	16.5.5	18.3.10	18.3.10	18.4.10	18.4.10	20.1.5	20.1.5	20.10.10	20.10.10	20.11.10	20.11.10	20.12.10	20.12.10
Brown algae																			
B	*Acrocarpia* spp.	7.3	16.2	0.8	0	0	0	0.8	0	4.5	26.2	0	0	0	1.6	6	9.4	0	0
B	*Carpoglossum confluens*	0	0	0.9	2	0	0	0	0	7.2	15.8	0.4	0	0.6	2.9	16.5	7.5	0.8	0
B	*Carpomitra costata*	0	0	0	0	0.4	0	0	0	0	0.6	0	0	0	0	0.4	0.3	0	0
B	*Caulocystis* spp.	3.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	14.1	73.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora platylobium*	0	0	1.6	4.2	1.7	0.7	0.9	0.7	0	0	7.1	3	0	5.4	0	2.2	0	1.7
B	*Cystophora retorta*	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora* spp.	5.7	13	0	0	0	0	0	0	2.3	0	0	0	0	0	0	0	0	0
B	*Cystophora xiphocarpa*	0	0	0.4	0	0.1	0	0	0	0.2	0	0	0	3.6	0	2	0	0	0
B	*Dictyopteris muelleri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyotacae* spp.	0	2.8	0	0	0	0	0	0	0.1	0.2	0	0	0	0	0	0	0	0
B	*Durvillaea potatorum*	0	0	0	1.4	29.9	69.9	0.4	4.2	0	0	33	37	59.1	81.5	0	0	7.1	1
B	*Ecklonia radiata*	0	4.4	19.7	3.2	0	0	25.9	2.5	6.8	0.4	0.1	3.7	13.5	4.5	1	2.1	0.5	11
B	*Halopteris* spp.	1.5	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0.6	0	0
B	*Lessonia corrugata*	0	0	8.2	8.9	4	2.4	17.6	14.8	0	0	0	7.8	0	0	0	0	8.5	6.6
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0.5	0.7	0	0	0	0	4.8	0.2	0	0	0	0	3	0.8	1.2	0.9
B	*Perithalia caudata*	7.6	0.6	0	0	0	0	0	0.2	0.8	0	2.4	8.3	0	0	0	0.8	0	0
B	*Phyllospora comosa*	0	23.9	38.4	33.7	24.1	37.6	63.3	9.4	0.7	0	25.4	28.2	12.4	6.4	30	66.1	41.6	68.4
B	*Sargassum decipiens*	23.9	33.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum sonderi*	0	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum* spp.	2	3.7	1.5	0	0	0	11.4	1.1	0	0.6	1.2	0.4	0	0	0.3	0.2	0	0
B	*Sargassum varians*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum verruculosum*	0	0.2	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	41.3	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora gladiata*	0	0	10.4	6.3	4.5	0	0.9	0.5	3.2	5	31.9	34.5	0.2	2.3	0	0	22.9	11.2
B	*Zonaria* spp.	9.5	6.3	0.1	0	0	0	0	0	0	0	0	0.5	0.2	0.2	2.2	1.7	0	0

	bioregion	NE	NE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	2.7.5	2.7.5	16.4.5	16.4.5	16.5.5	16.5.5	18.3.10	18.3.10	18.4.10	18.4.10	20.1.5	20.1.5	20.10.10	20.10.10	20.11.10	20.11.10	20.12.10	20.12.10
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa annulata*	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0.1	0	1.6	1.2	0	0	0	0	0	0	0.8	0.8	0	0	0	0	0.2	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0	0	0	2.2	0	0	0.2	0	6.7	1.8	0	0.1	0	0	0	0.4	0	0
G	*Caulerpa geminata*	0	0	0.1	0	0	0	0	0	0.1	0	0	0	1	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0.1	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0.3	0.9	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	0	0	0	0	0	0	0	5.5	0	0	0	0	0	0	0	0	0
G	*Ulva* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red algae																			
R	*Ballia* spp.	0	0	5.1	10.3	2.1	1.8	0.4	1.2	0.1	0.6	3.2	2.2	1.3	0.6	1.2	2.2	0.6	1.1
R	*Callophyllis* spp.	0	0	0	1.5	0	0	0	0	2.3	12.6	0.3	0	0	0	0	0.1	7.7	6.5
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	0	0	0	0	0	0	0	0	4.4	0	0	0	0	0	0	0	1.2
R	*Delisea* spp.	0	0	0	0	0	0	0.2	0	0	0.2	0.8	0	0	0	0	1	0	0
R	*Echinothamnion hystrix*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	1.5	5.9	0.4	0	0	0	0.5	0.6	0	0	0	0	0	0	0.2	0.6
R	*Gigartina* spp.	0	0	0	0.2	0	6.2	0	0	0	0	0	4.8	6	0	0.4	0	2.7	0
R	*Hemineura frondosa*	0	0	0.1	0.3	0.1	0	0.2	0	0	0.8	0	0	0	0	0	0	0	0.9
R	*Jeannerettia lobata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0	0	1.6	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0.1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
R	*Lenormandia* spp.	0	0	0.8	0	0	0.2	3.6	3.2	0.1	0.6	0	0	0	0	0	0.3	0	0
R	*Melanthalia* spp.	0	0	0.2	0.8	0	0.5	0	0.6	0.2	3.6	1.7	1.2	2.7	0	1.2	0	2	6.9
R	*Phacelocarpus* spp.	0	0	3.4	12.1	0	0.1	0	3.8	4.1	1.6	2.8	4.7	2.5	1.3	1.4	4.5	3.1	7.9

	bioregion	NE	NE	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	2.7.5	2.7.5	16.4.5	16.4.5	16.5.5	16.5.5	18.3.10	18.3.10	18.4.10	18.4.10	20.1.5	20.1.5	20.10.10	20.10.10	20.11.10	20.11.10	20.12.10	20.12.10
Red algae cont…																			
R	*Plocamium* spp.	0.8	0.4	5.9	8.6	2.6	2	2.6	3.1	25.3	43.3	7.8	17.2	0.2	1.2	9.2	18.2	6.4	25.5
R	*Pterocladia capillacea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0	1.2	0.9	0	0	0.3	0.6	1.2	0.4	0.1	0.2	0.3	0	0.7	2.6	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0.3	0	0	0	0	0	4.6	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	0	2.8	4.7	0.9	1.7	2.3	7.6	0	0.6	0.4	1.8	0.4	0	3.8	3.5	1	4.2
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0.1	0	0
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Bangia* spp.	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Camontagnea oxyclada*	0	0	7.5	1.4	1.5	0	0	0	0	0	0.4	0.3	0.4	1.1	2.9	9.8	0	0.2
Seagrass																			
S	seagrasses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	bioregion	S	S	S	S	S	S	S	S	S	S	S	S	SE	SE	SE	SE	SE	SE
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	0.13.10	20.13.10	20.2.10	20.2.10	20.5.10	20.5.10	20.7.10	20.7.10	20.8.10	20.8.10	20.9.10	20.9.10	17.1.5	17.1.5	17.2.5	17.2.5	17.3.10	17.3.10
Brown algae																			
B	*Acrocarpia* spp.	10.5	7.2	0	0	0	0	0	0	0.6	9	3.7	6.3	1.5	18	0.4	0	0	9.8
B	*Carpoglossum confluens*	0	0	3.9	8.9	0	0.4	0	0	9.7	3	1.2	0	3.2	4	0	0	0	0
B	*Carpomitra costata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora platylobium*	0	0	0.1	3.8	6.2	1.4	2.5	8.5	0	4	0	2.5	0	0	0.1	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora xiphocarpa*	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	0	0	0	0	0	0	0	0	0	7.2	0	0	0	0	0	0
B	*Dictyotacae* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.2	3.5	0	0.1	0.2
B	*Durvillaea potatorum*	2.3	0.7	0	1.7	18	34.1	42.7	85.8	54.8	0	4	2	0.1	2.4	0	10.3	0	0
B	*Ecklonia radiata*	19.3	40	17.3	12.4	3.6	7.7	2.2	0.4	23.9	2.3	7.4	9.4	14.9	77.8	5.6	12.1	29.2	71.2
B	*Halopteris* spp.	0	0	0	0	0	1.8	0	0	0	0	0	0	1.6	1.6	3	0.6	0	0.8
B	*Lessonia corrugata*	2.6	7.9	0	4.5	1.5	6.7	0	0	2	0.8	5.2	1.3	1.5	16.6	33.3	1.7	3.2	24.2
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0	2.5	0.3	0.5	0	0	0	0	0	0	17.4	0	0	0	0	0
B	*Perithalia caudata*	0	0	0	0	0.2	0.2	1.1	1.6	0	0	0	0	3.2	0	0	5.3	0	0
B	*Phyllospora comosa*	34.1	50	58	72.4	16.7	28.1	29.6	14.6	2.6	32.9	0	6.4	63	24.3	26.9	17.9	43.4	41.2
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum sonderi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum* spp.	11.9	12.8	2.5	2.8	0	0	0	0.4	0	0	0	0	0.2	4.4	6.2	0.5	2	0.6
B	*Sargassum varians*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum verruculosum*	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0.5	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora gladiata*	17.6	14.8	9.7	12.8	11.8	4.8	11.5	2.2	0	1.6	1.6	5.2	1.9	5.9	5.9	1.4	0	3.2
B	*Zonaria* spp.	0.5	0	0	0	0.2	1	0	0	0	0	0	0.3	2.4	1.4	0	0.1	0	0.2

	bioregion	S	S	S	S	S	S	S	S	S	S	S	S	SE	SE	SE	SE	SE	SE
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	20.13.10	20.13.10	20.2.10	20.2.10	20.5.10	20.5.10	20.7.10	20.7.10	20.8.10	20.8.10	20.9.10	20.9.10	17.1.5	17.1.5	17.2.5	17.2.5	17.3.10	17.3.10
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa annulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0	0	0	0.6	0	0	0.6	0	0	6.4	0	0	0	0	0	0	0	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0	0	0	0	0	0	0	0	0	4.1	0	0	0	0	0	0	0	0
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0.1	0	0	0	0	0	0.6	0.4	0	0	0	0	0	0	0.2	0
G	*Codium* spp.	0	0	0.3	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Ulva* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2	0	0.1	0
Red algae																			
R	*Ballia* spp.	1.4	4.3	1.3	1.3	7.4	6.1	1.1	3.8	5.7	2	8.7	4.2	2.2	5	1.4	0.3	5.8	24.6
R	*Callophyllis* spp.	0.4	2.3	0	0.7	0.1	4.7	0.5	0	0	0.9	3.7	0	0.1	0.6	0	1.4	0	0
R	*Ceramium* spp.	0	0	0	0	0	0.6	0	0	0	0	0	0.2	0	0	0	0	0	0
R	*Champia viridis*	0	0	0	0	0	0.3	0	2	0	0	0	0	0	0	0	0	0	0
R	*Delisea* spp.	0	0	0	0.6	0	0	0	0	0	1.6	0.5	0	0	4	0.9	0	1.7	0
R	*Echinothamnion hystrix*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0.2	0.9	0.4	0.5	0	0	0	0	0	1.8	0.3	0	0	0	0	0	0	0
R	*Gigartina* spp.	0	0	0	0	0	0	0	7.5	8	0	4.4	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	0.2	0	0.8	0.1	0	0	0	0	0	0	0	0.2	0.1	0	0.1	0.2
R	*Jeannerettia lobata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia* spp.	0	0.6	0	0.3	0	0.9	0	0	0	0	0.5	0	0	0	0	0.9	0.2	1.8
R	*Melanthalia* spp.	1.5	10.4	0	0	0	0	0	1.4	4.6	0	7.9	3.6	0	2.2	0	0.2	0.3	2
R	*Phacelocarpus* spp.	18.2	17.9	0.7	3.4	16	13.6	5.1	3.7	3.7	4.1	19.7	7	6.6	4.2	9.5	1.4	43.3	27.1

	bioregion	S	S	S	S	S	S	S	S	S	S	S	S	SE	SE	SE	SE	SE	SE
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	20.13.10	20.13.10	20.2.10	20.2.10	20.5.10	20.5.10	20.7.10	20.7.10	20.8.10	20.8.10	20.9.10	20.9.10	17.1.5	17.1.5	17.2.5	17.2.5	17.3.10	17.3.10
Red algae cont…																			
R	*Plocamium* spp.	5.2	5.2	9.4	22.7	9.3	5.8	6	7.4	1.4	12.4	12.4	11.8	3.1	11.9	5.6	3.7	6.5	12.3
R	*Pterocladia capillacea*	0	0.8	0	0	0	3.6	0	0	0	0	0	0	0	0	0	0	0	2.4
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.7	0	0
R	*Ptilonia australasica*	0	0	0.5	0.9	1.5	3.4	1.7	0	0.5	0.2	2.6	14.7	0.6	1	0	0	0	1.2
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	1.4	3.3	0.8	3.1	0	2.9	0	1.7	0	2.1	3.2	2.6	0	1.2	0	0.95	0.7	3.7
R	*Thamnoclonium dichotomum*	0	0	0	0	0.1	0	0	0	0	0	0.5	1.4	0	0	0	0	0	0
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Bangia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Camontagnea oxyclada*	0	0.2	0	0.6	7.9	0	0	1.7	6.2	0.7	3.3	0.4	8	0	0	0	0.4	0
Seagrass																			
S	seagrasses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
	Loc.Sit.Dep	**17.3.5**	**17.3.5**	**17.4.10**	**17.4.10**	**17.4.5**	**17.4.5**	**17.5.5**	**17.5.5**	**17.6.5**	**17.6.5**	**17.7.10**	**17.7.10**	**17.7.5**	**17.7.5**	**17.8.10**	**17.8.10**	**17.8.5**	**17.8.5**
Brown algae																			
B	*Acrocarpia* spp.	0.5	2.9	0	0	7.7	0	1.3	0.2	0	0	0	0	7.5	1.8	7.4	3.5	25	37.8
B	*Carpoglossum confluens*	0	0	0.8	3.5	1	2.2	0	0	9.5	20	0	4.1	0	0	0.8	8.3	2.7	31.2
B	*Carpomitra costata*	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0.2	0.5	0
B	*Caulocystis* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4
B	*Cystophora platylobium*	0	0.5	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora* spp.	0	0.2	5.5	3.4	0.8	2	0	0	0	1.6	0	0	0	0	0.7	0.7	0.2	2
B	*Cystophora xiphocarpa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0.4
B	*Dictyotacae* spp.	0	0	0.7	0.9	0	2.4	0	1.2	0	5.4	0	0	0	0.2	0	1	0	2.6
B	*Durvillaea potatorum*	5.7	25	0	0	0	0	0.3	0	0	0	0	0	0.3	0	0	0	0	0
B	*Ecklonia radiata*	18	9.4	30.5	23.2	29.9	6.6	20	20.2	32.2	67.6	55.8	42.6	46.6	21.5	20.1	3	25.5	52.4
B	*Halopteris* spp.	0	0.5	0	0.1	0	0	8.3	0	0	0	0	0	0	0	0	0.4	0	0
B	*Lessonia corrugata*	22.3	22.8	0	0	0	0	36.3	1.4	0	0	1.4	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	20.2	0.6	0	0	0	0	2	0	10.1	0
B	*Perithalia caudata*	0	0	0	0.2	0.1	0	0	0	0	0	0	0	0	0	0.2	0	0	0
B	*Phyllospora comosa*	58.5	36	20.5	30	48.5	24.9	39	64.9	58.4	59.8	6.4	11.9	50	54.2	10	0	24.3	9.8
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum sonderi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum* spp.	8	0.2	11.3	3	1.8	1.8	0	14.2	1.1	10.9	0	0.3	3.9	1.1	6.1	0.4	2.2	0
B	*Sargassum varians*	0	0	0	0.5	0	0	0	0	0	2.2	0	0	0	0	0	0	0	0
B	*Sargassum verruculosum*	0	0	3.7	1.5	5.4	5	0.1	0	1.3	0	0	0	0	0	5.6	1.1	1.7	2
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora gladiata*	1.8	11	0	0	0	0	1.8	1	0	0	0	0.2	2.1	13	0	0	0.8	0.4
B	*Zonaria* spp.	0	0	5.8	1.3	3.4	3.8	0.1	0.4	2	5.8	0	0	0	0.1	9	3.8	2.9	6.2

	bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
	Loc.Sit.Dep	**17.3.5**	**17.3.5**	**17.4.10**	**17.4.10**	**17.4.5**	**17.4.5**	**17.5.5**	**17.5.5**	**17.6.5**	**17.6.5**	**17.7.10**	**17.7.10**	**17.7.5**	**17.7.5**	**17.8.10**	**17.8.10**	**17.8.5**	**17.8.5**
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa annulata*	0	0	3.4	0	0	0	0	0	0	0	2.1	0	0.8	0	0	0	0	0
G	*Caulerpa brownii*	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0	0	0.1	0.8	0.4	0.4	0	0	0	0.6	0	0	0	1.2	0.7	0.2	1.3	0.6
G	*Caulerpa geminata*	0	0	0.2	0	0.1	0	0	0	0	0	0	0	0	0	2	3.2	1.7	0
G	*Caulerpa hodgkinsoniae*	0	0	0	1	0	0.3	0	0	0	0	0	0	0	0	0	0	0	1
G	*Caulerpa longifolia*	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	1.4	0	4.2	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0.6	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	8.6	1.8	1.7	6.3	0	0	0	0	0	0.2	0	0	0.5	1.8	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha* spp.	0	0	0	0.1	0	1.8	0	1.2	0	0	0	0	0	0	0	0	0	1.2
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	0	0.1	0	2.2	4	0	0	0.6	0	0	0	0	0	0.3	0	0	0
G	*Ulva* spp.	0	0.2	0	0	0	0.7	0	3	0	0	0	0	0	0	0	0	0	0
Red algae																			
R	*Ballia* spp.	3.2	2.7	0.1	1	0.5	0	0.2	9.6	0.3	6.6	1.5	1.8	0.8	0.9	0	0	0.4	0
R	*Callophyllis* spp.	0.2	0	2.3	3.5	0.7	2.4	1.1	12.6	0	0.8	0	1.2	0.6	1.8	0.6	0.4	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	0	0	0	0	2.8	0	0	0	0	0.3	0	0	0	0	0	0	0.4
R	*Delisea* spp.	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Echinothamnion hystrix*	0	0	0	0	0.5	1.7	0	5.4	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0.3	0	0	0.4	0.2	4.8	0	0	0	0	0	0	0	0	0	0
R	*Gigartina* spp.	0	2.8	0	0	0	0	0.3	3.8	0	0	0	0	0.4	0	0	0	0	0
R	*Hemineura frondosa*	0.1	0.3	1.6	0	0.4	0	3.3	2.6	0	0.8	0.1	0.3	0	0.3	0	0	0	1.2
R	*Jeannerettia lobata*	0	0	0.5	0	6.5	1.6	0	0	0	0	0	0.5	0	0.7	0	0	0	0
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0.3	0	0	0	0	0	0	2	0	0	0.9	0	0.7	0	0	0	0	0
R	*Lenormandia* spp.	0	0	2.4	1.5	2.4	1.1	1.2	3.8	0	1	1.3	2	0	0	0.8	0.6	0.5	1
R	*Melanthalia* spp.	0.8	0.4	1.2	0.1	0	0	0	0	0.3	0	0.1	0	0	0.8	0	0	0	0
R	*Phacelocarpus* spp.	24.1	7	1	0.1	0	0	4.3	3.5	0	0	13.2	2.8	3.6	7.5	1.4	0	0.1	0

	bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
	Loc.Sit.Dep	**17.3.5**	**17.3.5**	**17.4.10**	**17.4.10**	**17.4.5**	**17.4.5**	**17.5.5**	**17.5.5**	**17.6.5**	**17.6.5**	**17.7.10**	**17.7.10**	**17.7.5**	**17.7.5**	**17.8.10**	**17.8.10**	**17.8.5**	**17.8.5**
Red algae cont…																			
R	*Plocamium* spp.	2	1.4	2.5	3.2	9.4	5.4	5.3	9.2	1.1	1.4	16	19.9	8.9	16.5	3.4	1.1	0.9	1.9
R	*Pterocladia capillacea*	0	1.6	0	0	0	0	0	1	0	0	0.6	0	0	1.2	0	0	0	0
R	*Pterocladia lucida*	0	0	0	0.2	0	0	0	1.6	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0.2	0	0.4	0.3	0.1	0	0.2	0	0.2	0	0.8	1.4	0	0	0.2	0	0	0.8
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	6.5	0.6	0.45	0	0	0.2	11.7	0.2	1.3	4.5	2.65	0	1.3	0.2	1.7	0	0
R	*Thamnoclonium dichotomum*	0	0	1.2	1.4	0	0	0	0	0	0	2.9	0.9	0	0	1.9	1.1	0.4	1.6
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Bangia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Camontagnea oxyclada*	0.2	0	0	0	0.4	0	0	0	0	0	0	0	0.4	0	0	0	0	0
Seagrass																			
S	seagrasses	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0

	bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
	Loc.Sit.Dep	**18.1.5**	**18.1.5**	**18.2.5**	**18.2.5**	**18.4.5**	**18.4.5**	**4.1.5**	**4.1.5**	**4.2.5**	**4.2.5**	**4.3.5**	**4.3.5**	**4.4.5**	**4.4.5**	**6.1.5**	**6.1.5**	**6.3.5**	**6.3.5**
Brown algae																			
B	*Acrocarpia* spp.	11.3	5.2	8.2	7.4	0	10.4	11.6	15.3	7.8	7.8	0	3.9	8.4	42	2.3	5.6	1.1	0
B	*Carpoglossum confluens*	1.2	2.4	10.2	8.8	3.7	8.8	10.4	8.9	1	5.2	6.7	9.1	1.2	20	2.4	7.6	1.2	0.7
B	*Carpomitra costata*	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis* spp.	0	0	0	0	0	0	0	0	2.6	0	0	0	0	0	0	0	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	0	0	0	0	0	0	0	0	2	0	0	0	0	4	0	0	0	0
B	*Cystophora platylobium*	0.3	1.2	0	4.8	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	5.7	4.1
B	*Cystophora xiphocarpa*	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0.2	0	0	0.6	0	0	0.5	0.6	0	0	0.4	0.7	0.1	6.4	1.8	0	0.3	0.5
B	*Dictyotacae* spp.	0	0	0	0	0	0.2	0	0	0	0	0	0.4	0	0.4	0.2	0.8	0	0.2
B	*Durvillaea potatorum*	0.7	115.6	0	7.4	27.2	9.8	0	0	0	0	0	0	0	0	0	0	0	0
B	*Ecklonia radiata*	24.2	27	24.6	51.4	0	0.2	5.5	3.6	58.8	38.3	57.4	37.1	7.4	5.4	1.5	17	1.9	14.5
B	*Halopteris* spp.	0	0	0.1	0.4	0	0	0	0	0.2	1	0	0.2	0.9	7.2	0	0	0	0
B	*Lessonia corrugata*	28.8	100.4	22.1	87.2	0.5	0	29.1	11.5	1.1	0	19.4	7.8	33.3	8.4	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	4.2	0	0	0	3.9	1.6	6.9	7.8	0	0	0	0	0	0	0.4	0	0	0
B	*Perithalia caudata*	0	0	4.5	0	1	1.6	0	0	8.9	0	0	0	0.9	4.9	0	0	0	0.2
B	*Phyllospora comosa*	0	0	0	28.8	48.2	47.7	0	0	0	15.8	0	0	0	0	0	0	0	0
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	4.2
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum sonderi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum* spp.	1	4.4	2.9	8.2	0	0	0.2	0.2	0	0	4.3	2	6.3	7.4	0.5	10.3	11.7	11.7
B	*Sargassum varians*	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0
B	*Sargassum verruculosum*	0	0	0	0	0	0	0	0	3.5	15.6	0	0	0	0	0	0.9	1.1	4.4
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.7	6.4	9.9
B	*Sporochnus* spp.	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora gladiata*	4.7	0	1.2	0.8	14.7	4.7	0	1.2	0	0	0	0	0	0.7	0	0	0	0
B	*Zonaria* spp.	1	0.2	1.3	0	0	0.2	0	0	0	1.3	0	0	0.5	1.1	0	4	8.9	12.3

	bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
	Loc.Sit.Dep	**18.1.5**	**18.1.5**	**18.2.5**	**18.2.5**	**18.4.5**	**18.4.5**	**4.1.5**	**4.1.5**	**4.2.5**	**4.2.5**	**4.3.5**	**4.3.5**	**4.4.5**	**4.4.5**	**6.1.5**	**6.1.5**	**6.3.5**	**6.3.5**
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa annulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	3.2	0	0.8	0.4	0.3	0	0	0	0	0	0	0	0	0.8	0	0	0	0
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0.8	0	0.2	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.2
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
G	*Caulerpa simplisciuscula*	0	0	0.7	0	0	0	0.5	11.4	0.3	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	2	0	0	1.5	2.2	2.6	0	0	0	0	0	0.4	0.3	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha* spp.	0	1	0	0.2	0	1.4	0	0	0	0	0	0	0	0.2	0	0	0	0.1
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0
G	*Codium pomoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Ulva* spp.	0.2	0.2	0	3.6	0	0	0	2.1	0	1	0	0.9	0.1	13	0	0	0.4	0
Red algae																			
R	*Ballia* spp.	4.1	8.8	2	4.4	0.2	1.8	0.9	0	1.6	0.9	1.8	2	0	0	0.1	0.8	0	0
R	*Callophyllis* spp.	0.7	0.8	3.5	26.6	8.8	9.8	11.2	15.1	5.1	3.4	2	3.4	0.4	3.8	0	0.8	1	1
R	*Ceramium* spp.	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	0	0.1	0	0	0.6	0	0.8	0	0.2	0	0	0	0.4	0	0	0	0.1
R	*Delisea* spp.	0	0	0.5	0.6	0	0	0	0	1.4	1.4	0	0	7.2	0.4	0	0	3.8	1.7
R	*Echinothamnion hystrix*	0.1	0	0	0	0	0	0	0	1.3	0	0.4	0	0	0.2	0	0	0	0
R	*Euptilota articulata*	0	0	0	0.2	0	0	1.2	0.7	2.8	0.9	0	0	0	0	0	0	0	0
R	*Gigartina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0.8	0	1.4	20.6	0.1	0	0.9	1.3	2.9	0	11.8	6.3	8	1.4	0	0	0.5	0
R	*Jeannerettia lobata*	1.1	0	2.1	4.8	0	0	3.4	3	1	0	20.4	12.6	9.5	1	6.2	0.8	0	4.2
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0.3	1.9	0
R	*Laurencia* spp.	2.7	0	0	0.4	0.2	0.8	0	0.8	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia* spp.	0	0.2	1.3	2	0	0	8.5	3.8	1.3	3	0	1.4	0	0.2	3.8	3.3	0.4	1.3
R	*Melanthalia* spp.	0	0	0	0	0.5	3	0	0	0	0	0	1.1	0	0	0	0	0	0
R	*Phacelocarpus* spp.	12.1	8.2	2.3	16.9	1.1	9.8	14.8	6.8	0	0.5	0	0	0.2	0.4	0.4	0	0	3.8

	bioregion	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**
	Loc.Sit.Dep	**18.1.5**	**18.1.5**	**18.2.5**	**18.2.5**	**18.4.5**	**18.4.5**	**4.1.5**	**4.1.5**	**4.2.5**	**4.2.5**	**4.3.5**	**4.3.5**	**4.4.5**	**4.4.5**	**6.1.5**	**6.1.5**	**6.3.5**	**6.3.5**
Red algae cont…																			
R	*Plocamium* spp.	13.2	3.3	17.1	4.3	8	31.8	12.9	15.2	1.4	4.9	0	0.6	0.2	3.7	1.8	2.9	0.6	0.1
R	*Pterocladia capillacea*	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0	0.7	0	0.4	1.6	0.8	2.8	0	0	0	0	0.2	0.2	0	0	0.2	1.2
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	1.9	0	8.8	0	0.3	0.2	0.8	0	0	0	1	0	0.2	0	2.8	0	0.1
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	15.3	3.5	0	0
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
R	*Bangia* spp.	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	1	0	0	0
R	*Camontagnea oxyclada*	5.9	0	5.1	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0
Seagrass																			
S	seagrasses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	bioregion	SE	SE	SE	SE	SE	SE	W	W	W	W	W	W	W	W	W	W	W	W
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	6.4.10	6.4.5	6.5.5	6.5.5	6.6.5	6.6.5	23.1.5	23.1.5	23.2.5	23.2.5	23.3.10	23.3.10	24.1.10	24.1.10	24.1.5	24.1.5	24.2.5	24.2.5
Brown algae																			
B	*Acrocarpia* spp.	0	0	1.2	0	0	0	17.8	8.2	3.3	21.3	0	2.5	0	0	20.3	3.8	0	0
B	*Carpoglossum confluens*	2.5	14.6	2.8	10.6	0	0	0.5	4.6	0	0	7.4	1.1	119	45	3.9	11.1	21.2	30.4
B	*Carpomitra costata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2	0
B	*Cystophora platylobium*	0	0	0	0	0	0	0	0	0	0	0	2.9	0	0	0	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora* spp.	0	7.2	6	11	0	0	0	0	0	0	0	0	0	0	0.7	8.8	1.5	0.7
B	*Cystophora xiphocarpa*	0	0	0	0	0	0	4.7	31.6	1.7	4.5	4.4	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyotacae* spp.	3.1	2.6	0	0	0	0	0	3	0	0.3	0	0.7	0	0.8	0	0	0	0
B	*Durvillaea potatorum*	0	0	0	0	0	0	5.6	10	52.4	3.5	0	9.1	0	0	0.4	0	0	0
B	*Ecklonia radiata*	29.4	139.2	0	42.2	0	0	0.3	0	0	0	1.6	4.7	283	62.8	38.4	59.7	41.8	30.5
B	*Halopteris* spp.	0	0	0	0	0	0	4.2	2.4	1.7	3.1	0.1	10.7	2	1.2	1.4	0	0	0.7
B	*Lessonia corrugata*	0	0	0	0	0	0	0	0	0	0	17.2	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	7.7	0	11.2	0	0.4	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0.5	0	0	0	0	36.4	0	2.8	0	1.2	0	0	0	0.1	2.2	0
B	*Perithalia caudata*	0	0	161.05	3.8	0	0	24.6	12.6	8.9	0	0	10.5	0	0	0	0	0	0
B	*Phyllospora comosa*	0	0	0	0	0	0	11.7	5.1	5.3	76.7	56	14.4	0	0	0	0	0	0
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum sonderi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum* spp.	3.1	11.2	9.5	21.1	2.5	5.9	0.8	0	0	0	0	0	0	0	0.9	3.1	0.2	0
B	*Sargassum varians*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum verruculosum*	0.4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sporochnus* spp.	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora gladiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.3	0	2.8	0
B	*Zonaria* spp.	8.3	8.5	2.4	2.6	0	0	5.8	0.8	3.1	2.2	0.1	1.1	30	0.2	0	0	0	0

	bioregion	SE	SE	SE	SE	SE	SE	W	W	W	W	W	W	W	W	W	W	W	W
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	6.4.10	6.4.5	6.5.5	6.5.5	6.6.5	6.6.5	23.1.5	23.1.5	23.2.5	23.2.5	23.3.10	23.3.10	24.1.10	24.1.10	24.1.5	24.1.5	24.2.5	24.2.5
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa annulata*	0	0	0	0	0	0	0	0	0	0	1.7	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0	0	0	0	0	0	1.1	0	3	0	0	0	0	0	0	0	0	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	2.6	0	0	0	0	0	0	0	0	0	0	10.4	0	3	0	0	0	0
G	*Caulerpa geminata*	0	2.2	4.2	1.6	3.8	26.6	0	0	0	1.7	0	0	0	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0.1	0	0	0	0	1.1	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0.8	0	3.2	0	0	2.2	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	1.9	20	16.7	21.2	0	0	0	0	0	3.3	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha* spp.	0	0	18.4	1.8	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0
G	*Codium pomoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	0	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0
G	*Ulva* spp.	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red algae																			
R	*Ballia* spp.	0	0.2	0	0	0	0	0.1	0	0.6	0	0.2	0	17	5.6	2.1	3.7	1	0.6
R	*Callophyllis* spp.	5.8	3.6	0.8	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	0.8	0	0.2	0	0	1	0	2.7	0	0.2	1.8	0	0	0	0	0	0
R	*Delisea* spp.	2.7	0	1.4	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0
R	*Echinothamnion hystrix*	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0
R	*Gigartina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0
R	*Jeannerettia lobata*	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia* spp.	1.2	2.2	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia* spp.	0.5	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	2
R	*Melanthalia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus* spp.	0	0	0	0	0	0	0	0	0	0	2.2	0.3	9	0	3.4	0.1	0	0.1

	bioregion	SE	SE	SE	SE	SE	SE	W	W	W	W	W	W	W	W	W	W	W	W
	Yeargroup	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006	1994	2006
	Loc.Sit.Dep	6.4.10	6.4.5	6.5.5	6.5.5	6.6.5	6.6.5	23.1.5	23.1.5	23.2.5	23.2.5	23.3.10	23.3.10	24.1.10	24.1.10	24.1.5	24.1.5	24.2.5	24.2.5
Red algae cont…																			
R	*Plocamium* spp.	1.9	0.2	2.5	2	0	0	1.7	0.7	0	0.5	4.6	0.7	6	3.5	0.1	0.3	0	0.2
R	*Pterocladia capillacea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	5.7	0	0.6	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	0	0	0	0	0	0	0	0	0	5.8	0	15	0	0.8	0.3	0	0
R	*Thamnoclonium dichotomum*	0.7	0.2	2	0.8	0.4	1.2	0	0	0	0	1.5	0	5	2.2	0	0	0	0
R	*Acrosorium ciliolatum*	0.6	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Bangia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0.2	0	0	0	0	0	29	0	4.4	0	0	0
Seagrass																			
S	seagrasses	0	0	0	0	12.2	2.2	0	0	0	0	0	0	0	0	0	0	0	0

	bioregion	W	W	W	W	W	W	W	W										
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**										
	Loc.Sit.Dep	**24.3.5**	**24.3.5**	**24.4.10**	**24.4.10**	**24.5.10**	**24.5.10**	**24.6.5**	**24.6.5**										
Brown algae																			
B	*Acrocarpia* spp.	12.6	9.7	0.4	4.5	0	0	0	14.6										
B	*Carpoglossum confluens*	8.5	12.6	7.8	10.3	14.5	0.2	8	34.2										
B	*Carpomitra costata*	0	0	0	0	0	0	0	0										
B	*Caulocystis* spp.	0	0	0	0	0	0	0	0										
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0										
B	*Cystophora moniliformis*	0	0	0	0	0	0	0	0										
B	*Cystophora platylobium*	0	0	0	0	0	0	0	30.4										
B	*Cystophora retorta*	0	0	0	0	0	0	0	0										
B	*Cystophora* spp.	0.3	0.4	0	0	0	0	0	0										
B	*Cystophora xiphocarpa*	0	0.2	0	0	0	0	0.2	6.4										
B	*Dictyopteris muelleri*	0	0	0	0	0	0	0	0										
B	*Dictyotacae* spp.	0	0	0	0	0	0	0	0										
B	*Durvillaea potatorum*	0	0	0	0	6.2	84.7	64.8	58.6										
B	*Ecklonia radiata*	48.2	22.7	2.4	18.2	31.5	0.2	5.4	2.6										
B	*Halopteris* spp.	0	3.6	0.1	0.1	1.1	0	0	5.8										
B	*Lessonia corrugata*	0	0	0	0	0	0	0	0										
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0										
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0.4										
B	*Perithalia caudata*	0	1.3	0	0	0	0	0	0										
B	*Phyllospora comosa*	0	0	0	0	0	0	0	0										
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0										
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0										
B	*Sargassum sonderi*	0	0	0	0	0	0	0	0										
B	*Sargassum* spp.	0	0	0	0	0.1	0	0	0										
B	*Sargassum varians*	0	0	0	0	0	0	0	0										
B	*Sargassum verruculosum*	0	0	0	0	0	0	0	0										
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0										
B	*Seirococcus axillaris*	0	0	0	0	0	0	0	0										
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0										
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0										
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0										
B	*Xiphophora gladiata*	3.4	6.2	0	0	0	0	0	0										
B	*Zonaria* spp.	0	0	0	0	0.2	0	0	1										

	bioregion	W	W	W	W	W	W	W	W										
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**										
	Loc.Sit.Dep	**24.3.5**	**24.3.5**	**24.4.10**	**24.4.10**	**24.5.10**	**24.5.10**	**24.6.5**	**24.6.5**										
Green algae																			
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0										
G	*Caulerpa annulata*	0	0	0	0	0	0	0	0										
G	*Caulerpa brownii*	0	0	0	0	3.7	0	0	0.6										
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0										
G	*Caulerpa flexilis*	0.6	0	0	0	0	0	0	0										
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0										
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0										
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	1.2										
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0										
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0										
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	1.4										
G	*Caulerpa trifaria*	0	0	0	0	0	0	0	0.2										
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0										
G	*Chaetomorpha* spp.	0	0	0	0	0	0	0	0.6										
G	*Codium dimorphum*	0	0	0	0	0	0	0	0										
G	*Codium pomoides*	0	0	0	0	0	0	0	0										
G	*Codium* spp.	0	0	0	0	0	0	0	0										
G	*Ulva* spp.	0	0	0	0	0	0	0	0										
Red algae																			
R	*Ballia* spp.	4.5	2.8	1.7	1.2	8.3	0.7	10.6	0.4										
R	*Callophyllis* spp.	0	0	0	0	0	0	0	0										
R	*Ceramium* spp.	0	0	0	0	0	0	0	0										
R	*Champia viridis*	0	0	0	0	0	0	0	0										
R	*Delisea* spp.	0	0	0	0	0	0	0	0										
R	*Echinothamnion hystrix*	0	0	0	0	8.1	0	0	0										
R	*Euptilota articulata*	0	0	0	0	0.2	0	0	0										
R	*Gigartina* spp.	0	0	0	0	0	0	0	0										
R	*Hemineura frondosa*	0	0	0	0.2	0	0	0	0										
R	*Jeannerettia lobata*	0	0	0	0	0	0	0	0										
R	*Kallymenia* spp.	0	0	0	0	0	0	0	0										
R	*Laurencia* spp.	0	0	0	0	0	0	0	0										
R	*Lenormandia* spp.	0	0.2	0	0	0	0	0	0.6										
R	*Melanthalia* spp.	0	0	0	0	0	0	0	0										
R	*Phacelocarpus* spp.	0	0.2	0	0	0.3	0	0	0										

	bioregion	W	W	W	W	W	W	W	W										
	Yeargroup	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**	**1994**	**2006**										
	Loc.Sit.Dep	**24.3.5**	**24.3.5**	**24.4.10**	**24.4.10**	**24.5.10**	**24.5.10**	**24.6.5**	**24.6.5**										
Red algae cont…																			
R	*Plocamium* spp.	0.4	0.6	0.7	0.3	0.2	0	0	0.8										
R	*Pterocladia capillacea*	0	0.2	0	0	0	0	0	0										
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0										
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0										
R	*Ptilonia australasica*	0	0.6	0	0	0	0	0	0										
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0										
R	*Rhodymenia* spp.	3.2	0	1.9	0	3.1	0	9.9	0										
R	*Thamnoclonium dichotomum*	0	0.3	0.2	0	0	0	0	0										
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0										
R	*Bangia* spp.	0	0	0	0	0	0	0	0										
R	*Camontagnea oxyclada*	0	0	0.5	0	2.4	0	0	0										
Seagrass																			
S	seagrasses	0	0	0	0	0	0	0	0										

Species	0.1.10	0.1.5	0.3.5	0.4.10	0.7.10	0.8.5	0.9.10	10.1.5	10.2.5	10.3.5	10.4.5	10.5.5	10.6.5	10.7.5	10.8.5	11.1.5	11.10.5	11.11.5	11.12.5	11.2.5	11.3.5	11.4.5	11.7.5	11.8.5	11.9.5	13.1.10
Acanthaluteres spilomelanurus	0	2	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Acanthaluteres vittiger	3	6	3	1	1	1	3	0	2	2	30	3	0	0	30	9	2	15	5	23	7	10	11	6	2	6
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aldrichetta forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	0	2	0	1	0	0	0	1	0	8	1	2	0	3	3	1	0	6	4	1	1	1	0	0	0	0
Aracana aurita	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arripis spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	72	15	0	142	0	0	0	50	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
Caesioperca rasor	3	0	0	2	0	0	3	1	0	14	434	63	265	232	116	75	594	203	57	97	578	74	1589	223	78	0
Cephaloscyllium laticeps	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Cheilodactylus nigripes	0	0	0	0	0	0	0	0	0	4	0	5	10	6	9	3	10	11	13	19	2	12	12	2	1	0
Cheilodactylus spectabilis	11	8	5	2	10	12	4	0	0	2	3	2	0	2	1	2	0	7	0	0	0	0	0	2	1	5
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	2	131	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dinolestes lewini	0	0	0	1	0	0	2	0	0	0	33	0	2	0	0	30	0	0	0	0	2	0	2	5	55	17
Diodon nicthemerus	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0
Dotalabrus aurantiacus	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	1	1	0	0	0	0	0	1	0	0
Engraulis australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enoplosus armatus	1	0	0	0	0	0	0	0	0	6	7	0	4	6	12	2	5	1	0	1	3	3	10	0	1	1
Eubalichthys gunnii	0	0	0	0	0	0	0	0	0	0	2	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0
Eubalichthys mosaicus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	1	0	1	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Girella zebra	0	0	0	0	0	0	0	0	0	1	3	9	15	5	14	6	11	7	12	1	13	5	11	8	3	0
Haletta semifasciata	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Hirundichthys rondeleti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyporhamphus melanochir	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	2	0	0	0
Latridopsis forsteri	6	7	0	0	1	0	2	0	0	0	1	0	0	0	3	1	0	0	0	0	0	3	0	1	0	0
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptatherina presbyteroides	0	0	0	0	0	0	0	0	2320	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	0	1	1	11	0	0	1	1	0	0	5	1	1	0	3	1	0	1	0	0	0	0	0	0	0	0
Meuschenia flavolineata	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
Meuschenia freycineti	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	1	0	0	1	0	0	3	0	0	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	0	0	1	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	13.1.5	13.10.10	13.11.10	13.2.5	13.3.10	13.4.10	13.5.10	13.6.10	13.7.10	13.8.10	13.9.10	14.1.5	14.10.5	14.11.5	14.12.5	14.2.5	14.3.5	14.4.5	14.5.5	14.6.5	14.7.5	14.8.5	14.9.5	17.1.5	17.10.5	17.11.5
Acanthaluteres spilomelanurus	0	0	0	0	0	0	0	0	0	0	0	0	0	42	12	0	0	1	0	0	0	1	0	0	0	0
Acanthaluteres vittiger	1	2	1	2	46	3	0	0	0	4	2	5	5	25	0	18	261	23	1	32	8	1	9	4	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aldrichetta forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	1	0	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Aracana aurita	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
Arripis spp.	60	0	125	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	7	0	8	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0
Caesioperca rasor	0	0	1	0	2	2	3	0	0	0	0	1	0	0	0	0	0	38	0	0	0	0	0	0	0	0
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	1	3	0	1	1	0	1	0	1	0	0
Cheilodactylus nigripes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
Cheilodactylus spectabilis	3	3	5	0	2	0	6	2	13	0	2	3	3	0	0	0	0	2	0	3	0	0	1	6	7	4
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
Dinolestes lewini	15	87	27	0	9	4	0	1	2	38	15	0	0	0	0	0	0	0	0	0	0	0	0	1	15	0
Diodon nicthemerus	1	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
Dotalabrus aurantiacus	0	0	1	1	0	1	0	0	0	0	0	2	2	4	10	4	0	3	12	5	1	8	1	1	0	0
Engraulis australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enoplosus armatus	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys gunnii	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys mosaicus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hirundichthys rondeleti	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyporhamphus melanochir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	1	0	2	0	0	0	0	0	0	0	2	1	4	0	2	0	1	0	2	6	0	2	0	0	3	0
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptatherina presbyteroides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	5	1	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	2	0	0	0
Meuschenia flavolineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia freycineti	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	0	0	0	1	0	0	0	1	0	0	0	0	17	63	51	0	4	26	11	13	27	26	11	0	0	0

Species	17.12.5	17.13.5	17.14.5	17.15.5	17.2.5	17.3.10	17.3.5	17.4.10	17.4.5	17.5.5	17.6.5	17.7.10	17.7.5	17.8.10	17.8.5	17.9.5	18.1.5	18.10.5	18.11.5	18.12.5	18.2.5	18.3.10	18.4.10	18.4.5	18.6.5	18.7.5
Acanthaluteres spilomelanurus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acanthaluteres vittiger	0	0	1	1	2	4	12	15	17	1	6	12	5	13	267	0	3	0	0	0	1	2	0	0	0	2
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aldrichetta forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	2	1	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0
Aracana aurita	0	0	0	0	1	0	1	0	2	1	0	1	1	0	0	0	0	0	2	2	0	4	0	0	1	5
Arripis spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca rasor	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
Cheilodactylus nigripes	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0
Cheilodactylus spectabilis	9	3	0	1	10	6	4	0	0	0	5	6	5	2	4	9	1	0	2	1	1	0	0	3	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dinolestes lewini	0	0	0	0	0	12	2	0	4	0	0	10	0	0	14	0	0	341	250	60	120	0	0	0	0	0
Diodon nicthemerus	1	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	2	1	0	0	0	0
Dotalabrus aurantiacus	0	0	0	0	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	0	1	0	2	0	0	0
Engraulis australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enoplosus armatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys mosaicus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haletta semifasciata	0	0	0	0	0	0	0	4	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hirundichthys rondeleti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyporhamphus melanochir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	6	0	0	0	1	0	1	0	1	2	0	1	1	3	0	0	1	0	18	52	0	1	0	3	0	0
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptatherina presbyteroides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Meuschenia australis	2	0	0	5	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	1	3	0	0	0	0
Meuschenia flavolineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Meuschenia freycineti	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	0	0	0	0	0	15	4	44	296	0	10	2	6	8	153	0	0	0	0	2	0	0	0	0	0	0

Species	18.8.5	18.9.5	19.1.5	19.10.10	19.11.10	19.12.5	19.13.10	19.14.5	19.15.10	19.16.5	19.17.5	19.18.5	19.19.10	19.2.5	19.3.10	19.3.5	19.4.5	19.5.10	19.5.5	19.6.5	19.7.5	19.8.10	19.9.10	2.1.5	2.6.5	2.7.5
Acanthaluteres spilomelanurus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Acanthaluteres vittiger	2	0	8	4	3	21	4	3	7	5	0	2	3	9	1	11	36	6	4	4	5	0	1	23	1	2
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aldrichetta forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	0	0	0	1	0	0	3	2	0	1	0	0	0	0	0	2	0	2	1	0	0	1	0	0	0	0
Aracana aurita	2	6	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arripis spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	1	0	0	3	1	0	16	0	29	0	5	48	27	0	13	0	0	0	7	2	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0
Caesioperca rasor	0	0	1	6	0	0	0	0	18	0	0	1	0	0	0	0	0	0	0	0	0	31	4	0	0	0
Cephaloscyllium laticeps	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Cheilodactylus nigripes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cheilodactylus spectabilis	0	1	1	11	4	3	15	7	9	2	4	1	1	0	3	1	4	6	6	2	2	9	3	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Dinolestes lewini	0	150	0	0	1	0	1	147	4	10	0	46	5	22	36	10	7	18	0	2	0	2	13	0	0	0
Diodon nicthemerus	0	1	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	10	1	0	0	0	0	0	0	0
Dotalabrus aurantiacus	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	2	4
Engraulis australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enoplosus armatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys gunnii	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Eubalichthys mosaicus	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	0	39	2	0	0	0	1	0	0	11	3	0	0	0	1	34	0	1	0	0	0	0	0	0	0
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hirundichthys rondeleti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyporhamphus melanochir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	5	1	0	0	0	0	2	0	0	0	3	0	0	0	1	0	0	1	1	0	2	2	0	5	0	0
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptatherina presbyteroides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	0	5	0	1	1	2	0	2	0	0	1	0	0	0	1	2	1	0	1	2	1	2	2	2	1	0
Meuschenia flavolineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia freycineti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	4	0	0	2	0	0	0	2	0	1	1	0	2	0	0	0	0	0	0	0	2	0	0	0	3	19

Species	20.1.5	20.10.10	20.11.10	20.12.10	20.13.10	20.2.10	20.5.10	20.6.10	20.7.10	20.8.10	20.9.10	21.13.5	21.14.5	21.15.5	21.16.10	21.4.5	21.5.5	21.6.5	21.7.5	21.8.5	21.9.5	22.1.5	22.10.5	22.11.5	22.2.5	22.3.5
Acanthaluteres spilomelanurus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	0
Acanthaluteres vittiger	0	0	0	0	1	43	0	0	0	0	0	0	0	0	0	8	1	3	0	1	0	0	1	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aldrichetta forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	7	0	0	1	2	3	2	1	1	0	3	0	0	0	0	0	0	1	3	0	0	1	0	0	0	0
Aracana aurita	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Arripis spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	0	0	50	22	0	0	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Caesioperca rasor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	16	0	0	0	0	42
Cephaloscyllium laticeps	0	0	0	0	0	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Cheilodactylus nigripes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	2	0	6	8	0	0	0	6
Cheilodactylus spectabilis	3	1	1	0	13	1	1	3	0	0	1	0	8	0	0	3	0	2	4	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dinolestes lewini	46	1	0	8	0	90	119	4	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Diodon nicthemerus	0	0	0	0	0	0	0	0	0	0	0	12	2	2	0	1	0	0	1	0	0	0	0	0	0	0
Dotalabrus aurantiacus	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	1	1	4	3	0	5	4	0	0
Engraulis australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enoplosus armatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys mosaicus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	2	0	2	18	0	8	1	0	0	0	14
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Hirundichthys rondeleti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyporhamphus melanochir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	4	0	0	2	0	0	0	17	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latris lineata	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptatherina presbyteroides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1045	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	10	0	0	0	0	0	0	0	0	5	1
Meuschenia flavolineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7
Meuschenia freycineti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0
Meuschenia hippocrepis	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5	0	0	0	0	47	0	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	4	0	0	0	0

Species	22.4.5	22.5.5	22.6.5	22.7.5	22.8.5	22.9.5	23.1.5	23.2.5	23.3.10	24.1.10	24.1.5	24.2.5	24.3.5	24.4.10	24.5.10	24.6.5	4.3.5	4.4.5	4.5.5	4.6.5	6.1.5	6.2.5	6.3.5	6.4.5	6.5.5	6.7.5
Acanthaluteres spilomelanurus	0	0	0	4	64	1	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	1	1	0	0	0
Acanthaluteres vittiger	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4	0	2	41	0	1	4	3	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aldrichetta forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	0	0	0	0	9	1	0	0	0	0	0	0	0	0	1	0	1	1	2	0	0	0	0	0	0	0
Aracana aurita	0	0	0	0	0	0	1	0	1	2	1	8	1	2	0	1	2	3	2	2	1	4	3	18	0	2
Arripis spp.	0	0	0	0	0	100	91	258	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Caesioperca lepidoptera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Caesioperca rasor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	24	52	12	1	2	20
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cheilodactylus nigripes	10	2	0	8	0	2	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	2	0
Cheilodactylus spectabilis	1	0	0	0	0	0	0	0	0	1	0	0	3	2	0	0	3	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Dinolestes lewini	6	0	0	13	0	30	0	0	0	45	3	45	1	0	0	0	350	0	445	0	2	1	38	1	4	4
Diodon nicthemerus	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	3	2	0	4	0	0	0	0	0	0
Dotalabrus aurantiacus	1	4	0	0	5	3	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	3	2	0	0	0
Engraulis australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enoplosus armatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys mosaicus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	29	3	0	3	1	1	10
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hirundichthys rondeleti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyporhamphus melanochir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	0	0	1	1	0	6	0	12	1	3	0	0	4	0	73	64	0	0	6	0	0	2
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptatherina presbyteroides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2	0	7	0	2	0	3	2	1
Meuschenia flavolineata	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia freycineti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0
Meuschenia hippocrepis	12	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0
Neoodax balteatus	0	1	0	8	9	5	0	0	0	0	0	0	0	0	0	0	1	1	102	26	19	22	76	157	34	155

Species	7.1.5	7.2.5	7.3.5	7.4.5	7.5.5	7.6.5	7.7.10	7.8.10	7.9.10	8.1.5	8.10.5	8.11.5	8.12.8/4	8.2.5	8.3.5	8.4.5	8.5.5	8.6.5	8.7.10	8.8.10	8.9.5	9.1.5	9.10.10	9.11.10	9.12.5	9.13.10
Acanthaluteres spilomelanurus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Acanthaluteres vittiger	0	0	0	1	5	0	0	0	0	55	0	0	0	0	1	0	0	0	3	4	0	1	0	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Aldrichetta forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0	0	0
Aplodactylus arctidens	0	0	0	0	1	0	0	0	0	0	0	0	6	1	0	1	0	0	0	1	1	0	1	0	1	0
Aracana aurita	0	0	0	0	0	0	0	0	1	1	0	0	2	2	0	2	0	0	1	0	1	0	0	0	0	0
Arripis spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	0	0	0	100	100	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca rasor	0	0	0	0	0	0	12	16	6	0	0	0	0	0	0	1	0	0	0	0	0	9	12	5	0	86
Cephaloscyllium laticeps	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cheilodactylus nigripes	8	3	5	0	7	2	7	9	11	3	5	7	4	2	9	2	0	0	0	0	0	5	3	4	4	2
Cheilodactylus spectabilis	0	0	0	0	0	0	0	5	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Dinolestes lewini	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	82	0	0	0	0	0	0
Diodon nicthemerus	0	10	2	1	1	1	2	0	0	0	0	0	12	0	0	0	0	0	0	0	0	1	0	0	1	0
Dotalabrus aurantiacus	1	5	7	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	3	0
Engraulis australis	0	0	0	0	0	0	0	0	0	0	0	0	300	351	0	0	1000	0	0	0	0	0	0	0	0	0
Enoplosus armatus	55	0	0	0	1	1	2	2	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0
Eubalichthys gunnii	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eubalichthys mosaicus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	10	16	0	0	23	29	0	10	0	0	4	3	0	0	10	1	0	0	0	6	0	2	30	1	2	2
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Hirundichthys rondeleti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyporhamphus melanochir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	0	0	0	0	0	0	0	0	3	0	9	2	0	0	0	0	0	0	0	0	0	0
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptatherina presbyteroides	0	0	0	0	0	0	0	0	0	0	50	500	0	0	0	0	0	0	188	0	0	0	200000	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	0	1	0	1	0	3	0	1	0	1	5	1	0	3	1	0	0	0	0	2	0	4	0	0	0	0
Meuschenia flavolineata	1	3	1	0	8	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	2
Meuschenia freycineti	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Meuschenia hippocrepis	21	0	4	0	15	5	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	0	4	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4

Species	9.14.5	9.15.5	9.16.5	9.17.10	9.18.10	9.19.10	9.2.5	9.3.5	9.4.5	9.5.5	9.6.5	9.7.5	9.8.10	9.9.10
Acanthaluteres spilomelanurus	0	0	0	0	0	0	0	0	6	0	0	0	0	0
Acanthaluteres vittiger	0	0	0	12	0	1	11	172	0	52	25	0	0	0
Achoerodus viridis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aldrichetta forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplodactylus arctidens	0	0	0	0	0	0	0	1	2	0	0	0	0	0
Aracana aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arripis spp.	22	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	27	0	0	0	6	0	100	22	0	0	0	0
Aulopus purpurissatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	1	0	1	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca lepidoptera	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caesioperca rasor	0	0	2	91	194	91	0	20	0	59	589	0	3	12
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cheilodactylus nigripes	0	1	2	5	6	6	9	3	14	6	15	9	4	4
Cheilodactylus spectabilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	1	4	0	0	1	0	0	0	0	0	0	0	0	1
Chromis hypsilepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conger verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyttus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dactylophora nigricans	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dasyatis brevicaudata	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Dinolestes lewini	1	0	25	0	0	180	46	49	38	1	33	0	0	6
Diodon nicthemerus	0	0	2	0	0	0	0	0	2	3	1	2	0	7
Dotalabrus aurantiacus	8	4	2	2	5	1	1	0	0	3	0	1	6	10
Engraulis australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enoplosus armatus	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Eubalichthys gunnii	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Eubalichthys mosaicus	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eupetrichthys angustipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella elevata	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella tricuspidata	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Girella zebra	36	0	14	0	1	0	10	22	15	0	18	7	3	7
Haletta semifasciata	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hirundichthys rondeleti	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyporhamphus melanochir	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyphosus sydneyanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	2	0	0	0	0	0	0	0	5	0	0	0
Latris lineata	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptatherina presbyteroides	1	0	0	0	0	0	150	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mendosoma allporti	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Meuschenia australis	50	0	0	0	1	0	1	0	15	1	2	2	0	2
Meuschenia flavolineata	0	0	1	2	2	0	0	0	0	0	13	0	2	2
Meuschenia freycineti	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Meuschenia hippocrepis	0	0	2	0	2	1	0	0	17	0	0	0	1	7
Meuschenia scaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemadactylus macropterus	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neoodax balteatus	0	0	1	0	2	5	0	1	0	21	1	0	0	1

Species	0.1.10	0.1.5	0.3.5	0.4.10	0.7.10	0.8.5	0.9.10	10.1.5	10.2.5	10.3.5	10.4.5	10.5.5	10.6.5	10.7.5	10.8.5	11.1.5	11.10.5	11.11.5	11.12.5	11.2.5	11.3.5	11.4.5	11.7.5	11.8.5	11.9.5	13.1.10
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus fucicola	16	37	35	7	19	52	12	9	0	77	35	51	5	13	21	12	4	36	25	15	8	19	36	7	15	7
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	2	1	1	0	0	0	0
Notolabrus tetricus	20	11	16	4	3	3	6	49	7	20	24	28	117	86	74	85	61	103	111	80	89	49	51	16	14	7
Octopus maorum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
Odax cyanomelas	1	0	0	3	1	0	4	0	0	14	12	22	1	4	7	26	8	9	11	9	13	7	10	10	28	1
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	3	0	0	6	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parequula melbournensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	3	4	7	10	0	0	64	0	0	0
Parma victoriae	0	0	0	0	0	0	0	2	0	0	1	0	3	2	3	0	3	1	2	1	1	0	0	0	0	0
Pempheris multiradiata	10	0	23	0	0	0	12	0	0	0	4	0	0	0	0	1	0	25	6	0	100	0	0	7	0	9
Pentaceropsis recurvirostris	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	6	14	4	1	3	0	3	0	1	0	0	2	2	1	0	0	0	0	0	2	1	46	0	0	0	1
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	7	1	2	3	8	1	50	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	0	5
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis barbata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudorhiza haeckeli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpis aequipinnis	0	10	0	1	1	0	0	0	0	16	6	16	3	0	20	20	19	87	28	29	6	3	24	1	2	0
Scorpis lineolata	0	24	0	28	0	4	6	0	0	4	0	0	0	0	12	0	0	3	10	0	0	22	0	0	0	4
Sepia apama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Sepioteuthis australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sillago ciliata	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphamia cephalotes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	450	0	0	0	0	0	0	0	250	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	0	0	0	0	0	0	0	53	4	0	0	0	0	0	0	1	0	1	0	11	4	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Trachinops caudimaculatus	4	0	0	20	0	0	93	0	0	33	406	0	0	0	0	0	203	112	0	36	90	92	495	7	0	0
Trachurus declivis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	800
Upeneichthys vlamingii	0	0	0	0	0	0	0	1	0	0	4	0	2	3	1	2	0	4	0	4	10	7	3	7	0	0
Urolophus cruciatus	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	13.1.5	13.10.10	13.11.10	13.2.5	13.3.10	13.4.10	13.5.10	13.6.10	13.7.10	13.8.10	13.9.10	14.1.5	14.10.5	14.11.5	14.12.5	14.2.5	14.3.5	14.4.5	14.5.5	14.6.5	14.7.5	14.8.5	14.9.5	17.1.5	17.10.5	17.11.5
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Notolabrus fucicola	20	6	10	5	3	10	8	2	18	1	11	16	7	3	6	18	24	26	9	20	7	39	20	52	49	18
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	2	6	5	0	5	2	22	4	4	5	5	11	47	36	42	18	6	18	122	79	70	80	47	0	1	1
Octopus maorum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax cyanomelas	8	0	0	0	0	2	1	1	2	0	2	0	3	0	0	0	0	0	0	0	0	0	5	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parequula melbournensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	2	0	0	5	1	20	0	0	0	0	0	0	34	0	0	0	61	50	0	0	2	0	0	0	0
Pentaceropsis recurvirostris	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	0	0	3	0	4	0	9	1	0	1	2	1	7	1	4	1	2	8	5	5	5	7	13	4	2	0
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	2	20	1	2	1	5	0	0	0	0	1	2	0	0	0	0	8	0	0	0	0	0	0	0	0
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Pseudophycis barbata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudorhiza haeckeli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpis aequipinnis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Scorpis lineolata	1	0	19	0	76	0	0	1	2	0	0	1	0	0	0	0	5	0	0	0	0	2	0	0	2	0
Sepia apama	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sepioteuthis australis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sillago ciliata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0
Siphamia cephalotes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6	0	1	1	12	0	1	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	0	0	0	0	5	0	0	0	0	0	0	2	11	593	18	0	0	58	20	81	764	170	0	0	0	0
Trachurus declivis	0	11	250	0	701	0	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upeneichthys vlamingii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus cruciatus	0	0	0	0	0	0	1	0	1	0	0	0	0	2	2	0	2	0	0	0	1	0	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	1	1	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0

Species	17.12.5	17.13.5	17.14.5	17.15.5	17.2.5	17.3.10	17.3.5	17.4.10	17.4.5	17.5.5	17.6.5	17.7.10	17.7.5	17.8.10	17.8.5	17.9.5	18.1.5	18.10.5	18.11.5	18.12.5	18.2.5	18.3.10	18.4.10	18.4.5	18.6.5	18.7.5
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus fucicola	38	3	22	17	36	21	40	2	31	21	16	29	20	11	15	38	10	42	16	30	24	31	7	17	25	10
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	5	0	1	7	8	3	0	10	48	5	5	14	5	22	30	0	17	7	13	17	25	15	55	17	17	22
Octopus maorum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax cyanomelas	0	1	0	0	1	3	4	0	3	0	1	1	1	0	3	0	1	1	3	0	0	1	0	0	1	2
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parequula melbournensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	0	0	0	0	0	0	0	5	0	99	3	0	401	99	0	0	0	30	0	0	0	0	0	0	0
Pentaceropsis recurvirostris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	0	1	0	0	0	0	1	8	16	0	1	5	2	3	8	1	1	1	1	1	5	1	3	1	2	5
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	0	0	0	5	3	0	1	1	0	0	6	1	10	1	1	0	0	2	0	0	0	6	3	0	0
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis barbata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudorhiza haeckeli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpis aequipinnis	1	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
Scorpis lineolata	0	0	0	0	0	0	1	0	0	0	0	1	2	0	6	0	0	0	0	0	0	0	0	0	0	0
Sepia apama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sepioteuthis australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sillago ciliata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphamia cephalotes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	0	0	0	0	0	0	0	1	9	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	0	0	0	0	0	0	0	267	560	0	12	0	0	478	1432	0	0	2	425	0	30	0	0	0	0	0
Trachurus declivis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upeneichthys vlamingii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus cruciatus	0	0	0	0	0	0	0	2	1	0	4	0	0	2	0	0	0	0	1	0	0	1	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	18.8.5	18.9.5	19.1.5	19.10.10	19.11.10	19.12.5	19.13.10	19.14.5	19.15.10	19.16.5	19.17.5	19.18.5	19.19.10	19.2.5	19.3.10	19.3.5	19.4.5	19.5.10	19.5.5	19.6.5	19.7.5	19.8.10	19.9.10	2.1.5	2.6.5	2.7.5
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Notolabrus fucicola	108	40	29	19	13	10	16	8	2	8	14	6	7	8	15	8	1	10	39	0	3	10	3	43	6	1
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	27	38	2	16	4	1	8	5	5	1	0	2	5	2	8	3	3	3	3	0	3	11	10	9	70	33
Octopus maorum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax acroptilus	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax cyanomelas	2	0	6	3	0	4	11	0	2	0	1	1	2	1	0	6	4	3	0	1	0	1	1	1	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parequula melbournensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Pempheris multiradiata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	5	0	0	14	26	8	0	65	30
Pentaceropsis recurvirostris	1	0	1	1	2	0	0	1	0	0	1	1	0	1	1	4	1	0	0	0	0	1	2	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Pictilabrus laticlavius	3	3	1	1	0	2	2	3	4	1	0	3	1	0	1	1	0	1	0	0	3	3	5	0	5	2
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	0	1	7	0	0	4	2	1	0	0	0	0	0	1	1	0	0	0	0	1	6	3	1	1	0
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis barbata	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Pseudorhiza haeckeli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpis aequipinnis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Scorpis lineolata	0	0	0	1	0	4	30	6	3	1	2	0	0	5	0	7	95	0	0	0	0	3	0	0	0	0
Sepia apama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sepioteuthis australis	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Sillago ciliata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphamia cephalotes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	0	220	0	0	0	0	0	0	265	0	0	0	0	0	0	0	0	0	0	0	0	3	0	7	0	0
Trachurus declivis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
Upeneichthys vlamingii	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Urolophus cruciatus	0	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	1	1	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	20.1.5	20.10.10	20.11.10	20.12.10	20.13.10	20.2.10	20.5.10	20.6.10	20.7.10	20.8.10	20.9.10	21.13.5	21.14.5	21.15.5	21.16.10	21.4.5	21.5.5	21.6.5	21.7.5	21.8.5	21.9.5	22.1.5	22.10.5	22.11.5	22.2.5	22.3.5
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus fucicola	44	21	14	56	27	7	18	18	25	8	28	0	26	18	1	14	0	17	27	4	0	1	2	0	0	1
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	7	1	14	4	0	4	1	3	0	4	2	100	0	5	16	6	4	69	92	11	103	87	74	27	23	70
Octopus maorum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	0	0	0
Odax cyanomelas	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	4	0	7	6	0	0	0	0	0	1	1
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	4	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parequula melbournensis	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	4	21	5	0	0	4
Pempheris multiradiata	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	50	1	2	0	0	22	0	0	0	0
Pentaceropsis recurvirostris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	0	0	1	0	0	1	0	0	0	0	0	2	0	0	0	0	1	1	1	0	0	12	13	8	4	9
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	1	2	6	0	9	1	0	0	2	29	15	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis barbata	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudorhiza haeckeli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpis aequipinnis	1	0	0	0	6	0	0	0	2	14	0	0	0	0	0	0	0	0	54	0	14	0	0	0	0	5
Scorpis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	67	0	0	5	0	62	0	0	0	0	0	0	0	1
Sepia apama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Sepioteuthis australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sillago ciliata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphamia cephalotes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	431	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	9	0	2	0	1	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Trachinops caudimaculatus	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	196	72	0	44	272
Trachurus declivis	0	160	0	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upeneichthys vlamingii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	12	4	0	0	3
Urolophus cruciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	22.4.5	22.5.5	22.6.5	22.7.5	22.8.5	22.9.5	23.1.5	23.2.5	23.3.10	24.1.10	24.1.5	24.2.5	24.3.5	24.4.10	24.5.10	24.6.5	4.3.5	4.4.5	4.5.5	4.6.5	6.1.5	6.2.5	6.3.5	6.4.5	6.5.5	6.7.5
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus fucicola	4	0	0	2	0	0	6	4	4	12	67	57	49	79	4	32	33	59	16	24	4	25	3	14	5	6
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	51	79	10	34	16	106	7	14	32	4	1	3	2	3	1	6	31	21	53	47	107	100	101	77	68	66
Octopus maorum	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Odax acroptilus	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax cyanomelas	3	0	0	3	1	0	0	2	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parequula melbournensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	7	1	0	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	0	1037	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	31	1	0	1	0	0	0
Pentaceropsis recurvirostris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictilabrus laticlavius	14	5	9	8	2	5	0	0	0	2	0	0	0	0	0	0	2	2	2	6	21	9	12	11	3	0
Pseudocaranx dentex	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	0	0	0	0	0	0	0	0	35	1	28	4	23	0	0	0	0	1	0	9	4	3	7	4	0
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	3	0
Pseudophycis barbata	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0
Pseudorhiza haeckeli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Scorpis aequipinnis	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpis lineolata	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	7	0	0	0	0	0	0	0
Sepia apama	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sepioteuthis australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sillago ciliata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphamia cephalotes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Siphonognathus beddomei	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7	0	8	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	855	101	0	225	0	30	0	0	0	0	0	0	0	0	0	0	509	0	6577	1153	1824	5775	1541	246	1851	3660
Trachurus declivis	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upeneichthys vlamingii	1	1	0	0	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus cruciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	0	0	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	7.1.5	7.2.5	7.3.5	7.4.5	7.5.5	7.6.5	7.7.10	7.8.10	7.9.10	8.1.5	8.10.5	8.11.5	8.12.8/4	8.2.5	8.3.5	8.4.5	8.5.5	8.6.5	8.7.10	8.8.10	8.9.5	9.1.5	9.10.10	9.11.10	9.12.5	9.13.10
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus fucicola	7	1	5	0	1	6	4	0	11	0	5	0	56	14	4	10	3	11	0	1	4	15	4	0	0	0
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	62	144	79	6	113	87	76	70	69	16	42	30	59	42	38	134	12	22	7	12	30	128	54	26	53	61
Octopus maorum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax acroptilus	0	0	0	0	2	1	0	0	0	2	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0
Odax cyanomelas	2	0	0	0	13	21	0	1	2	0	0	1	2	0	0	0	0	0	0	9	1	0	0	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parequula melbournensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	2	4	2	0	13	0	0	8	2	0	8	27	4	2	21	12	0	2	0	1	0	10	7	3	1	6
Pempheris multiradiata	0	0	0	0	1	0	20	0	0	1	0	0	0	0	2	0	0	0	0	21	0	0	528	186	115	642
Pentaceropsis recurvirostris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
Pictilabrus laticlavius	0	3	0	0	1	0	6	4	3	1	16	11	1	0	6	0	0	0	0	0	0	3	7	9	16	13
Pseudocaranx dentex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Pseudolabrus psittaculus	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	1
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Pseudophycis barbata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Pseudorhiza haeckeli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpis aequipinnis	25	0	0	0	2	28	36	0	0	4	7	25	10	39	136	12	1	3	0	19	23	6	1	0	3	0
Scorpis lineolata	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sepia apama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sepioteuthis australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sillago ciliata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphamia cephalotes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	0	66	11	12	1	1	18	73	16	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trachinops caudimaculatus	0	8	0	0	35	0	75	38	30	0	0	0	0	0	0	0	0	0	0	0	0	50	2215	3630	393	5533
Trachurus declivis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upeneichthys vlamingii	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1
Urolophus cruciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	9.14.5	9.15.5	9.16.5	9.17.10	9.18.10	9.19.10	9.2.5	9.3.5	9.4.5	9.5.5	9.6.5	9.7.5	9.8.10	9.9.10
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Notolabrus fucicola	1	1	6	0	1	4	9	4	43	30	36	0	0	1
Notolabrus gymnogenis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notolabrus tetricus	89	128	56	31	78	62	33	28	51	81	22	51	54	80
Octopus maorum	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax acroptilus	0	0	0	0	0	1	1	2	0	1	2	2	0	1
Odax cyanomelas	0	0	0	0	1	0	3	7	6	0	7	0	0	0
Ophthalmolepis lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratrachichthys trailli	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parequula melbournensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma microlepis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	2	3	2	4	7	1	4	3	10	0	6	2	4	3
Pempheris multiradiata	7	0	4770	121	0	0	400	0	780	1210	84	0	665	110
Pentaceropsis recurvirostris	0	0	0	0	0	0	1	0	0	0	6	0	1	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	3	0	0
Pictilabrus laticlavius	19	15	10	5	21	8	4	2	3	7	7	18	21	27
Pseudocaranx dentex	0	0	3	0	0	0	0	0	8	0	0	0	0	0
Pseudolabrus psittaculus	0	0	0	0	2	4	0	0	0	0	0	0	0	0
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis barbata	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Pseudorhiza haeckeli	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpis aequipinnis	0	0	0	0	0	0	10	4	17	1	6	3	0	0
Scorpis lineolata	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Sepia apama	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sepioteuthis australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sillago ciliata	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphamia cephalotes	0	0	4	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus attenuatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Siphonognathus beddomei	0	0	0	0	8	8	0	0	0	1	0	0	0	1
Tetractenos glaber	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Trachinops caudimaculatus	91	735	600	0	199	1873	112	454	310	430	260	0	927	1537
Trachurus declivis	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Upeneichthys vlamingii	0	0	0	10	2	2	0	1	1	4	2	6	0	0
Urolophus cruciatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urolophus paucimaculatus	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	0.1.10	0.1.5	0.3.5	0.4.10	0.7.10	0.8.5	0.9.10	10.1.5	10.2.5	10.3.5	10.4.5	10.5.5	10.6.5	10.7.5	10.8.5	11.1.5	11.10.5	11.11.5	11.12.5	11.2.5	11.3.5	11.4.5	11.7.5	11.8.5
Amblypneustes ovum	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	1	0	0
Anemones	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Antedon loveni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris greeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris varia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplysia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium vexillum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium aureum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium squamiferum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium tentoriformis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Austrocochlea odontis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carcinus maenas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cenolia tasmaniae	0	5	7	0	21	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
Cenolia trichoptera	547	12	143	79	322	4	507	248	0	0	0	0	16	0	0	5	10	43	0	5	9	11	13	5
Centrostephanus rodgersii	0	0	3	15	16	9	35	0	0	0	2	0	10	0	0	12	47	73	23	46	50	61	415	7
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ceratosoma brevicaudatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Charonia lampas rubicunda	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chitons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlamys asperimus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris ambiguus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris tasmaniensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clanculus undatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conocladus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Coscinasterias muricata	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cymatium parthenopeum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea angustata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea comptoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	0	0	0	1	0	0	0	0	0	3	1	5	0	1	0	0	0	0	0	0	0	0	0	0
Dotalabrus aurantiacus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	2	6	0	1	1	1	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equichlamys bifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fromia polypora	0	0	0	2	0	0	0	0	0	4	3	2	0	5	0	0	1	1	4	1	1	1	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptauchen panduratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Goby spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Goniocidaris tubaria	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Granata imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	11.9.5	13.1.10	13.1.5	13.10.10	13.11.10	13.2.5	13.3.10	13.4.10	13.5.10	13.6.10	13.7.10	13.8.10	13.9.10	14.1.5	14.10.5	14.11.5	14.12.5	14.2.5	14.3.5	14.4.5	14.5.5	14.6.5	14.7.5	14.8.5
Amblypneustes ovum	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	1	0	1	0
Anemones	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Antedon loveni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris greeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris varia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplysia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium vexillum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium aureum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium squamiferum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium tentoriformis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	0	0	0	2	11	2	0	1	0	0	0	1	0	0	0	0	0	5	1	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Austrocochlea odontis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	0	1	2	1	4	0	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Carcinus maenas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cenolia tasmaniae	0	3	0	15	10	18	56	5	20	15	0	42	2	0	1	0	0	0	31	12	0	2	0	0
Cenolia trichoptera	2	263	11	372	222	194	3399	84	212	96	43	901	17	481	2	34	4	0	241	339	79	42	118	62
Centrostephanus rodgersii	1	1	0	1	24	0	24	0	4	0	0	0	0	0	0	4	0	0	0	42	0	1	2	3
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	4	1	2	1
Ceratosoma brevicaudatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Charonia lampas rubicunda	0	0	0	3	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chitons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Chlamys asperimus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris ambiguus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris tasmaniensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clanculus undatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conocladus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Coscinasterias muricata	0	0	0	0	0	0	0	0	0	0	0	3	6	0	0	0	0	5	0	0	0	1	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cymatium parthenopeum	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea angustata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea comptoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	1	0	0	0	0	0	0	0	0	0	1	0	0	0	16	1	0	0	0	0	0	0	1	1
Dotalabrus aurantiacus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equichlamys bifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Fromia polypora	2	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptauchen panduratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goby spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	0	0	0	0	0	0	5	0	0	0	0	1	0	0	2	2	0	0	0	0	1	0	1	7
Granata imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	14.9.5	17.1.5	17.10.5	17.11.5	17.12.5	17.13.5	17.14.5	17.15.5	17.2.5	17.3.10	17.3.5	17.4.10	17.4.5	17.5.5	17.6.5	17.7.10	17.7.5	17.8.10	17.8.5	17.9.5	18.1.5	18.10.5	18.11.5	18.12.5
Amblypneustes ovum	0	0	0	0	0	3	0	1	0	0	0	0	6	0	0	0	1	0	0	0	0	0	0	0
Anemones	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Antedon loveni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris greeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris varia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplysia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium vexillum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium aureum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium squamiferum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium tentoriformis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	1	2	1	0	0	0	0	1	0	2	0	0	7	0	1	0	0	0	0	1	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Austrocochlea odontis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	2	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	1	0	1	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	1	1	2	1	2	1	5	15	0	0	0	0	0	1	1	0	0	0	3	1	0	2	2
Carcinus maenas	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Cenolia tasmaniae	0	1	2	0	0	3	0	12	2	4	3	0	2	17	0	0	0	5	9	5	2	1	6	10
Cenolia trichoptera	13	9	1	0	0	80	0	23	11	20	0	545	2512	33	39	57	42	1189	642	3	105	202	480	200
Centrostephanus rodgersii	0	0	1	0	0	0	0	0	0	0	0	1	8	0	41	0	0	0	10	0	0	0	1	0
Cephaloscyllium laticeps	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
Ceratosoma brevicaudatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Charonia lampas rubicunda	0	0	0	0	0	2	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chitons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlamys asperimus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris ambiguus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris tasmaniensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clanculus undatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conocladus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cymatium parthenopeum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea angustata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea comptoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	9	0	0	0	0	0	1	3	4	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0
Dotalabrus aurantiacus	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equichlamys bifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
Fromia polypora	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptauchen panduratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goby spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	6	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	4	13	0	0	1	1	0
Granata imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	18.2.5	18.3.10	18.4.10	18.4.5	18.6.5	18.7.5	18.8.5	18.9.5	19.1.5	19.10.10	19.11.10	19.12.5	19.13.10	19.14.5	19.15.10	19.16.5	19.17.5	19.18.5	19.19.10	19.2.5	19.3.10	19.3.5	19.4.5	19.5.10
Amblypneustes ovum	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	1	0
Anemones	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Antedon loveni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris greeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris varia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplysia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium vexillum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium aureum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium squamiferum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium tentoriformis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Austrocochlea odontis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	2
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	1	0	1	1	1	0	0	0	1	0	0	1	1	1	0	0	0	1	4	1	11
Carcinus maenas	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cenolia tasmaniae	0	0	39	11	0	7	33	8	0	11	0	0	0	0	0	3	0	0	18	0	0	1	0	0
Cenolia trichoptera	45	21	11	4	7	740	198	143	85	389	188	2	42	175	167	114	241	66	106	98	49	174	76	46
Centrostephanus rodgersii	0	0	0	0	0	0	0	0	46	219	29	11	186	245	141	2	94	50	0	21	188	265	41	0
Cephaloscyllium laticeps	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ceratosoma brevicaudatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Charonia lampas rubicunda	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chitons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlamys asperimus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris ambiguus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris tasmaniensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clanculus undatus	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conocladus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cymatium parthenopeum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea angustata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea comptoni	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	0	23	0	0	5	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0
Dotalabrus aurantiacus	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equichlamys bifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	3	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
Fromia polypora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptauchen panduratus	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goby spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Goniocidaris tubaria	0	0	4	0	0	10	1	1	2	0	2	0	1	0	0	0	8	0	1	7	2	2	0	0
Granata imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	19.5.5	19.6.5	19.7.5	19.8.10	19.9.10	2.1.5	2.6.5	2.7.5	20.1.5	20.10.10	20.11.10	20.12.10	20.13.10	20.2.10	20.5.10	20.6.10	20.7.10	20.8.10	20.9.10	21.13.5	21.14.5	21.15.5	21.16.10	21.4.5
Amblypneustes ovum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0
Anemones	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Antedon loveni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris greeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris varia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplysia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium vexillum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium aureum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium squamiferum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium tentoriformis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	4	1	0	0	0	1	0	3	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Austrocochlea odontis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	17	1	1	0	0	0	2	0	0	3	1	1	0	1	0	0	0	1	0	0	0	0	0	0
Carcinus maenas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cenolia tasmaniae	0	0	0	1	0	3	4	50	0	0	0	0	0	0	0	7	0	0	0	6	0	0	0	0
Cenolia trichoptera	10	22	0	77	152	190	74	52	0	0	0	0	0	0	0	0	0	0	0	12	0	2	29	48
Centrostephanus rodgersii	0	0	0	242	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Cephaloscyllium laticeps	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ceratosoma brevicaudatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Charonia lampas rubicunda	0	0	0	0	2	0	6	0	0	0	0	1	0	0	0	0	1	0	0	0	0	4	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chitons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlamys asperimus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris ambiguus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris tasmaniensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clanculus undatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conocladus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cymatium parthenopeum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea angustata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea comptoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	6	0	24	4	0	0	0	0	7	1	0	0	0	0	0	0	2	3	3	0	9	9	0	0
Dotalabrus aurantiacus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
Eocallionymus papilio	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equichlamys bifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fromia polypora	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptauchen panduratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goby spp.	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	0	1	0	0	1	1	2	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0
Granata imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	21.5.5	21.6.5	21.7.5	21.8.5	21.9.5	22.1.5	22.10.5	22.11.5	22.2.5	22.3.5	22.4.5	22.5.5	22.6.5	22.7.5	22.8.5	22.9.5	23.1.5	23.2.5	23.3.10	24.1.10	24.1.5	24.2.5	24.3.5	24.4.10
Amblypneustes ovum	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anemones	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Antedon loveni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris greeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris varia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplysia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium vexillum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium aureum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium squamiferum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium tentoriformis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Austrocochlea odontis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Carcinus maenas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cenolia tasmaniae	0	2	0	0	0	0	1	0	0	0	1	0	0	2	0	0	0	0	0	0	6	0	0	8
Cenolia trichoptera	133	39	0	31	9	4	16	1	13	5	10	11	0	5	0	0	0	5	0	0	0	0	0	0
Centrostephanus rodgersii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ceratosoma brevicaudatum	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Charonia lampas rubicunda	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chitons	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
Chlamys asperimus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris ambiguus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris tasmaniensis	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Clanculus undatus	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conocladus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coscinasterias muricata	1	2	0	1	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Cymatium parthenopeum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea angustata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea comptoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	1	0	3	0	0	0	0	0	0	0	0	0	2	1	0	0	1	3	6	0	0	0	0	4
Dotalabrus aurantiacus	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinaster arcystatus	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equichlamys bifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fromia polypora	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptauchen panduratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Goby spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Goniocidaris tubaria	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Granata imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	24.5.10	24.6.5	4.3.5	4.4.5	4.5.5	4.6.5	6.1.5	6.2.5	6.3.5	6.4.5	6.5.5	6.7.5	7.1.5	7.2.5	7.3.5	7.4.5	7.5.5	7.6.5	7.7.10	7.8.10	7.9.10	8.1.5	8.10.5	8.11.5
Amblypneustes ovum	0	0	1	1	0	2	0	9	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anemones	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Antedon loveni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris greeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris varia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplysia sp.	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium vexillum	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium aureum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium squamiferum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium tentoriformis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astrostole scabra	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Austrocochlea odontis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	1	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabestana spengleri	0	0	8	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Carcinus maenas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cenolia tasmaniae	0	0	2	3	0	0	11	52	2	1	2	0	0	0	0	1	0	0	0	5	0	1	0	0
Cenolia trichoptera	0	0	33	263	2	0	1391	927	582	507	541	0	0	9	16	18	75	0	17	24	3	229	1	0
Centrostephanus rodgersii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ceratosoma brevicaudatum	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Charonia lampas rubicunda	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Chironemus georgianus	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chitons	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	21	0	0	0	0	0	2
Chlamys asperimus	0	0	0	0	8	0	0	0	0	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris ambiguus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris tasmaniensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clanculus undatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conocladus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
Coscinasterias muricata	0	1	3	1	0	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cristiceps australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cymatium parthenopeum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea angustata	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea comptoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	0	14	5	2	0	1	3	0	0	5	0	0	10	0	4	0	0	6	0	0	0	1	0	0
Dotalabrus aurantiacus	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	1	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equichlamys bifrons	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	1	0	19	14	5	35	5	4	2	11	0	0	2	0	0	0	0	0	0	0	0	0
Fromia polypora	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Fusinus australis	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptauchen panduratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goby spp.	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Goniocidaris tubaria	0	0	5	15	0	0	34	3	86	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Granata imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	8.12.8/4	8.2.5	8.3.5	8.4.5	8.5.5	8.6.5	8.7.10	8.8.10	8.9.5	9.1.5	9.10.10	9.11.10	9.12.5	9.13.10	9.14.5	9.15.5	9.16.5	9.17.10	9.18.10	9.19.10	9.2.5	9.3.5	9.4.5	9.5.5
Amblypneustes ovum	0	1	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Anemones	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Antedon loveni	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris greeni	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aphelodoris varia	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aplysia sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Argobuccinium pustulosum	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0
Argobuccinium vexillum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium aureum	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Astralium squamiferum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Astralium tentoriformis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	0	0	1	0	0
Astrostole scabra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Atypichthys strigatus	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Austrocochlea odontis	0	5	14	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bovichtus angustifrons	0	0	0	0	0	1	0	0	0	7	1	0	0	0	0	5	0	0	1	1	0	2	1	2
Brachaluteres jacksonianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Cabestana spengleri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carcinus maenas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cenolia tasmaniae	0	6	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	4	0	2	1	0	0
Cenolia trichoptera	0	7	2	0	0	0	1	59	2	8	0	0	1	0	1	0	0	4	25	1	4	0	1	8
Centrostephanus rodgersii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cephaloscyllium laticeps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ceratosoma brevicaudatum	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Charonia lampas rubicunda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus georgianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironemus marmoratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Chitons	0	0	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	18	0	3	4
Chlamys asperimus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1
Chromodoris ambiguus	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromodoris tasmaniensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clanculus undatus	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	2	0	0	0	1	0	1	0	0
Clinid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cominella lineolata	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Conocladus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Conus anemone	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0
Coscinasterias muricata	0	4	0	2	0	0	2	0	6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Creocele cardinalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Cristiceps australis	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0
Cymatium parthenopeum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea angustata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cypraea comptoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dicathais orbita	0	1	1	0	1	0	0	0	0	0	0	0	0	0	5	2	0	0	0	0	13	21	32	1
Dotalabrus aurantiacus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinaster arcystatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eocallionymus papilio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Equichlamys bifrons	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Forsterygion varium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fromia polypora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Fusinus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Genypterus tigerinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glyptauchen panduratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gnathanacanthus goetzii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goby spp.	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	2	0	0	0	0	0
Goniocidaris tubaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Granata imbricata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Species	9.6.5	9.7.5	9.8.10	9.9.10																				
Amblypneustes ovum	6	0	0	0																				
Anemones	0	0	0	0																				
Antedon loveni	0	0	0	0																				
Aphelodoris greeni	0	0	0	0																				
Aphelodoris varia	0	0	0	0																				
Aplysia sp.	0	0	0	0																				
Argobuccinium pustulosum	0	0	0	0																				
Argobuccinium vexillum	0	0	0	0																				
Astralium aureum	0	0	0	0																				
Astralium squamiferum	0	0	0	0																				
Astralium tentoriformis	1	0	1	0																				
Astrostole scabra	0	0	0	0																				
Atypichthys strigatus	0	0	0	0																				
Austrocochlea odontis	0	0	0	0																				
Bovichtus angustifrons	1	0	0	2																				
Brachaluteres jacksonianus	0	0	0	0																				
Cabestana spengleri	0	0	0	0																				
Carcinus maenas	0	0	0	0																				
Cenolia tasmaniae	6	0	0	0																				
Cenolia trichoptera	40	2	0	0																				
Centrostephanus rodgersii	0	0	0	0																				
Cephaloscyllium laticeps	0	0	0	0																				
Ceratosoma brevicaudatum	0	0	0	1																				
Charonia lampas rubicunda	0	0	0	0																				
Chironemus georgianus	0	0	0	0																				
Chironemus marmoratus	0	0	0	0																				
Chitons	10	3	0	0																				
Chlamys asperimus	0	0	0	0																				
Chromodoris ambiguus	0	0	0	0																				
Chromodoris tasmaniensis	0	0	0	0																				
Clanculus undatus	6	0	0	0																				
Clinid spp.	0	0	0	0																				
Cominella lineolata	0	0	0	0																				
Conocladus australis	0	0	0	0																				
Conus anemone	0	0	0	0																				
Coscinasterias muricata	0	0	0	0																				
Creocele cardinalis	0	0	0	0																				
Cristiceps australis	0	1	0	0																				
Cymatium parthenopeum	0	0	0	0																				
Cypraea angustata	0	0	0	0																				
Cypraea comptoni	0	0	0	0																				
Dicathais orbita	4	1	0	0																				
Dotalabrus aurantiacus	0	0	0	0																				
Echinaster arcystatus	0	0	0	0																				
Eocallionymus papilio	0	0	0	0																				
Equichlamys bifrons	0	0	0	0																				
Forsterygion varium	0	0	5	0																				
Fromia polypora	1	0	1	0																				
Fusinus australis	0	0	0	0																				
Genypterus tigerinus	0	0	0	0																				
Glyptauchen panduratus	0	0	0	0																				
Gnathanacanthus goetzii	0	0	0	0																				
Goby spp.	0	0	0	0																				
Goniocidaris tubaria	2	0	0	0																				
Granata imbricata	0	0	0	0																				

Species	0.1.10	0.1.5	0.3.5	0.4.10	0.7.10	0.8.5	0.9.10	10.1.5	10.2.5	10.3.5	10.4.5	10.5.5	10.6.5	10.7.5	10.8.5	11.1.5	11.10.5	11.11.5	11.12.5	11.2.5	11.3.5	11.4.5	11.7.5	11.8.5
Gymnothorax prasinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis laevigata	0	0	0	0	0	0	0	4	7	0	0	1	0	1	4	0	1	0	0	1	0	0	0	3
Haliotis rubra	23	50	5	16	56	36	8	5	2	295	57	30	14	66	49	66	3	0	7	6	6	8	0	35
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	0	0	45	1	9	4	0	335	20	33	25	16	494	140	148	6	47	337	0	335	6	170	62	37
Herdmania momus	0	0	0	0	0	0	0	0	0	0	10	0	8	12	9	1	4	7	0	33	3	10	4	0
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	1	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jasus edwardsii	7	1	7	0	3	0	2	0	0	0	0	0	0	0	0	1	2	1	0	0	2	2	0	1
Jasus verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limpets (*P. laticostata*)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomis hirta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maoricolpus roseus	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mayena australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0	0	0	2	2	2	1	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	2	7	1	1	0	2	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	1	0	0	0	0	0	4	0	0	3	5	1	3	2	3	3	2	1	1	0	2	2	1	5
Neodoris chrysoderma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neothyonidium spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Nesogobius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	0	8	0	2	5	2	3	12	0
Nudibranchs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Octopus maorum	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ostrea spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid (grey)	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	0	0	0	0	0	106	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentagonaster dubeni	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	1	0	3	0	1	7	0	2	0
Petricia vernicina	0	0	0	0	0	0	0	0	0	1	4	0	1	2	2	0	2	7	1	5	2	0	2	0
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Species	11.9.5	13.1.10	13.1.5	13.10.10	13.11.10	13.2.5	13.3.10	13.4.10	13.5.10	13.6.10	13.7.10	13.8.10	13.9.10	14.1.5	14.10.5	14.11.5	14.12.5	14.2.5	14.3.5	14.4.5	14.5.5	14.6.5	14.7.5	14.8.5
Gymnothorax prasinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis rubra	116	3	11	5	59	14	16	44	56	1	39	4	0	7	15	17	14	13	9	3	4	10	8	24
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	14	9	0	3	0	12	29	0	0	0	0	7	0	47	142	324	189	10	4	101	97	655	453	379
Herdmania momus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	4	14	8	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jasus edwardsii	0	1	0	3	13	2	0	0	6	0	3	0	0	11	2	16	4	0	0	4	2	0	3	10
Jasus verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limpets (*P. laticostata*)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomis hirta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mayena australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	3	0	0	0	1	0	0	0	0	0	0	0	0	5	0	2	0	0	3	2	2	2	1	2
Neodoris chrysoderma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neothyonidium spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nesogobius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	7	0	0	0	0	0	0	1	1	0	0	0	1	0	3	0	0	0	0	0	0	0	0	2
Nudibranchs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Octopus maorum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ostrea spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
Pagurid (grey)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2
Pagurid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0
Patiriella calcar	0	0	208	0	0	0	0	0	0	361	0	0	181	0	0	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Pentagonaster dubeni	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Petricia vernicina	4	0	0	1	0	0	0	0	0	0	1	0	0	3	0	0	0	0	0	0	1	0	0	0
Petrocheles australiensis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	14.9.5	17.1.5	17.10.5	17.11.5	17.12.5	17.13.5	17.14.5	17.15.5	17.2.5	17.3.10	17.3.5	17.4.10	17.4.5	17.5.5	17.6.5	17.7.10	17.7.5	17.8.10	17.8.5	17.9.5	18.1.5	18.10.5	18.11.5	18.12.5
Gymnothorax prasinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis rubra	25	4	2	8	4	14	3	25	8	2	15	12	13	2	15	13	7	1	1	3	25	17	26	16
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	190	0	0	0	0	0	0	6	0	0	0	158	1412	0	438	0	4	390	791	0	0	0	110	11
Herdmania momus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Heteroclinus johnstoni	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus tristis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jasus edwardsii	7	11	10	10	1	17	2	1	5	3	0	3	2	4	13	4	5	4	14	8	0	9	4	3
Jasus verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limpets (*P. laticostata*)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomis hirta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mayena australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	0	0	0	0	0	0	0	0	0	0	0	1	1	0	4	0	0	3	1	0	0	0	10	2
Neodoris chrysoderma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Neothyonidium spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nesogobius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Norfolkia clarkei	2	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0
Nudibranchs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Octopus maorum	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ostrea spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid (grey)	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Pagurid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	0	0	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	1	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentagonaster dubeni	0	0	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	2	6	0	0	0	0	0
Petricia vernicina	0	0	0	0	0	0	0	0	0	0	0	3	1	1	0	0	0	6	3	0	0	3	3	2
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	18.2.5	18.3.10	18.4.10	18.4.5	18.6.5	18.7.5	18.8.5	18.9.5	19.1.5	19.10.10	19.11.10	19.12.5	19.13.10	19.14.5	19.15.10	19.16.5	19.17.5	19.18.5	19.19.10	19.2.5	19.3.10	19.3.5	19.4.5	19.5.10
Gymnothorax prasinus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis rubra	4	21	17	63	6	5	17	13	56	31	58	34	114	109	18	52	83	59	3	29	3	88	145	5
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	2	3	2	0	0	192	49	1	27	224	5	2	14	117	145	2	4	12	0	1	89	88	47	0
Herdmania momus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	1	0	0	0	2	2	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jasus edwardsii	3	0	4	11	9	22	0	20	3	0	1	0	0	6	0	0	7	0	1	5	4	4	0	4
Jasus verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limpets (*P. laticostata*)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomis hirta	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maoricolpus roseus	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mayena australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	1	0	1	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	2	0	0	0
Neodoris chrysoderma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neothyonidium spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nesogobius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	3	0	2	0	0	0	0	0	0
Nudibranchs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Octopus maorum	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ostrea spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid (grey)	0	0	0	0	1	0	1	1	1	0	0	0	0	1	0	4	0	0	0	0	0	3	1	2
Pagurid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	0	0	0	0	38	0	0	0	0	0	0	0	1	3	0	0	335	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	20	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentagonaster dubeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Petricia vernicina	0	0	1	2	0	1	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	19.5.5	19.6.5	19.7.5	19.8.10	19.9.10	2.1.5	2.6.5	2.7.5	20.1.5	20.10.10	20.11.10	20.12.10	20.13.10	20.2.10	20.5.10	20.6.10	20.7.10	20.8.10	20.9.10	21.13.5	21.14.5	21.15.5	21.16.10	21.4.5
Gymnothorax prasinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	10
Haliotis rubra	47	56	48	17	35	0	34	0	73	8	21	11	16	9	6	15	13	17	18	1	317	11	80	414
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	0	0	27	65	62	0	507	0	0	0	0	0	0	0	0	0	0	0	0	339	2	0	57	24
Herdmania momus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Heteroclinus perspicillatus	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jasus edwardsii	0	8	9	3	11	2	0	0	5	0	2	3	3	1	7	3	0	10	2	0	0	0	1	6
Jasus verreauxi	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limpets (*P. laticostata*)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomis hirta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mayena australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	0	0	1	1	2	3	1	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0
Neodoris chrysoderma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neothyonidium spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nesogobius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nudibranchs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Octopus maorum	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ostrea spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid (grey)	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Pagurid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella calcar	0	0	0	0	0	17	0	220	0	3	0	0	0	0	0	0	0	0	0	0	0	369	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentagonaster dubeni	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	3	0	1	0	0	0	0	0
Petricia vernicina	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	21.5.5	21.6.5	21.7.5	21.8.5	21.9.5	22.1.5	22.10.5	22.11.5	22.2.5	22.3.5	22.4.5	22.5.5	22.6.5	22.7.5	22.8.5	22.9.5	23.1.5	23.2.5	23.3.10	24.1.10	24.1.5	24.2.5	24.3.5	24.4.10
Gymnothorax prasinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis laevigata	0	9	0	3	5	0	0	0	3	0	0	5	0	0	0	13	0	0	0	0	0	0	0	0
Haliotis rubra	8	30	98	96	13	11	0	0	22	5	0	70	7	0	3	42	26	22	19	1	2	1	14	1
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heliocidaris erythrogramma	138	11	7	6	145	73	73	48	137	221	73	622	67	54	5	170	12	23	32	0	0	0	0	0
Herdmania momus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	2	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jasus edwardsii	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	4	1	1
Jasus verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limpets (*P. laticostata*)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomis hirta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mayena australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	4	0	0	7	0	0	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0
Neodoris chrysoderma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neothyonidium spp.	0	0	0	0	0	0	0	0	0	1	3	10	19	0	0	1	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nesogobius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	1	0	0	0	0	0	4	0	3	1	0	0	0	0	0	0	0	0	0	0	0
Nudibranchs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Octopus maorum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ostrea spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid (grey)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella brevispina	4	74	52	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	16	0	0	0	0	0
Patiriella calcar	0	12	779	0	0	0	0	0	0	0	0	0	0	0	0	0	648	12	0	0	2	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Pentagonaster dubeni	0	0	0	0	1	1	1	1	0	2	1	1	0	0	0	0	0	0	0	1	0	0	0	0
Petricia vernicina	2	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	2	0	0	1	1	0	0	0
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	1	1	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	5	0	0	0	0	0
Phasianella ventricosa	0	0	0	0	1	0	4	0	0	0	1	1	1	0	0	4	0	0	0	0	0	0	0	0
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	24.5.10	24.6.5	4.3.5	4.4.5	4.5.5	4.6.5	6.1.5	6.2.5	6.3.5	6.4.5	6.5.5	6.7.5	7.1.5	7.2.5	7.3.5	7.4.5	7.5.5	7.6.5	7.7.10	7.8.10	7.9.10	8.1.5	8.10.5	8.11.5
Gymnothorax prasinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis laevigata	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	29	20	0	3	1	6	0	0	1
Haliotis rubra	70	11	3	85	0	0	0	24	3	40	11	0	21	5	0	14	26	97	2	0	12	0	59	2
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Heliocidaris erythrogramma	0	0	38	256	5	62	176	497	70	23	303	29	7	257	101	197	734	57	93	186	159	30	19	325
Herdmania momus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0
Heteroclinus perspicillatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Heteroclinus tristis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Holopneustes inflatus	0	0	0	1	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jasus edwardsii	0	3	1	2	0	4	0	3	0	2	6	0	0	0	0	0	0	0	0	0	0	4	0	3
Jasus verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limpets (*P. laticostata*)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomis hirta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mayena australis	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
Nectria ocellata	0	0	0	0	0	0	2	4	2	1	8	0	0	0	0	0	4	0	1	0	0	0	0	0
Neodoris chrysoderma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Neosebastes scorpaenoides	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neothyonidium spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nepanthia troughtoni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Nesogobius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Norfolkia clarkei	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0
Nudibranchs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Octopus maorum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odax acroptilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ostrea spp.	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid (grey)	0	0	11	5	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Pagurid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6
Patiriella brevispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	15	3	0	0	6	0	0
Patiriella calcar	0	0	225	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Pempheris multiradiata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	1
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentagonaster dubeni	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	2	5	0	3	1	0	0	0
Petricia vernicina	0	0	0	6	0	0	9	0	1	0	2	0	0	0	1	0	0	0	0	0	0	3	1	0
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	1	0	7	0	1	1	9	8	7	0	0	1
Phasianotrochus eximius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	8.12.8/4	8.2.5	8.3.5	8.4.5	8.5.5	8.6.5	8.7.10	8.8.10	8.9.5	9.1.5	9.10.10	9.11.10	9.12.5	9.13.10	9.14.5	9.15.5	9.16.5	9.17.10	9.18.10	9.19.10	9.2.5	9.3.5	9.4.5	9.5.5
Gymnothorax prasinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Haliotis laevigata	0	4	0	3	0	0	0	1	12	1	0	0	1	1	0	0	0	0	1	7	2	0	0	0
Haliotis rubra	0	42	8	23	8	69	5	53	68	26	17	2	46	14	11	30	3	25	44	62	132	48	72	63
Haliotis scalaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Heliocidaris erythrogramma	0	251	48	247	161	70	19	33	5	702	92	204	295	196	170	347	211	346	502	388	251	122	22	647
Herdmania momus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteroclinus johnstoni	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
Heteroclinus perspicillatus	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Heteroclinus tristis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterodontus portusjacksoni	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hippocampus abdominalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Holopneustes inflatus	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hypoplectrodes nigrorubrum	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Jasus edwardsii	0	3	3	1	0	1	0	18	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
Jasus verreauxi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latridopsis forsteri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Limpets (*P. laticostata*)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lomis hirta	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lotella rhacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maoricolpus roseus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mayena australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Naxia aurita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectocarcinus tuberculatus	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	1	0
Nectria macrobrachia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria multispina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nectria ocellata	0	0	6	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	1	0	0	0
Neodoris chrysoderma	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neosebastes scorpaenoides	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Neothyonidium spp.	0	28	0	1	0	0	0	0	0	2	0	0	7	0	0	0	0	5	0	0	4	1	0	2
Nepanthia troughtoni	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nesogobius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
Norfolkia clarkei	0	0	0	0	0	0	0	0	0	3	1	2	3	2	0	11	1	0	6	8	1	3	1	5
Nudibranchs	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Octopus maorum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Odax acroptilus	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ostrea spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid (grey)	0	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurid spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parablennius tasmanianus	0	0	0	1	0	0	0	0	0	48	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Paragrapsus gaimardii	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranepanthia grandis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parascyllium ferrugineum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parma victoriae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Patiriella brevispina	0	41	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Patiriella calcar	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Patiriella gunnii	0	0	0	0	1	0	4	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pempheris multiradiata	0	0	0	0	0	0	0	0	0	0	0	5	0	14	0	0	0	0	0	0	0	0	0	0
Penion mandarinus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pentagonaster dubeni	0	0	1	0	0	0	0	0	0	0	2	1	1	1	0	0	1	1	2	1	0	3	0	0
Petricia vernicina	0	1	0	1	0	0	0	4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
Petrocheles australiensis	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Phasianella australis	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	5	10	0	6	0	0
Phasianella ventricosa	0	1	0	0	2	0	0	0	0	6	2	0	0	0	12	2	2	11	0	0	11	2	0	1
Phasianotrochus eximius	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	9.6.5	9.7.5	9.8.10	9.9.10																				
Gymnothorax prasinus	0	0	0	0																				
Haliotis laevigata	0	7	0	0																				
Haliotis rubra	73	27	16	30																				
Haliotis scalaris	0	0	0	0																				
Heliocidaris erythrogramma	233	79	84	314																				
Herdmania momus	0	0	0	0																				
Heteroclinus johnstoni	1	0	0	1																				
Heteroclinus perspicillatus	0	0	0	0																				
Heteroclinus tristis	0	0	0	0																				
Heterodontus portusjacksoni	0	0	0	0																				
Hippocampus abdominalis	0	0	0	0																				
Holopneustes inflatus	0	0	0	0																				
Hypoplectrodes nigrorubrum	0	0	0	0																				
Jasus edwardsii	2	0	0	0																				
Jasus verreauxi	0	0	0	0																				
Latridopsis forsteri	0	0	0	0																				
Limpets (*P. laticostata*)	0	0	0	0																				
Lomis hirta	0	0	0	0																				
Lotella rhacina	0	0	0	0																				
Maoricolpus roseus	0	0	0	0																				
Mayena australis	0	0	0	0																				
Mussel spp.	0	0	0	0																				
Naxia aurita	0	0	0	0																				
Nectocarcinus tuberculatus	1	0	0	0																				
Nectria macrobrachia	0	0	0	0																				
Nectria multispina	0	0	0	0																				
Nectria ocellata	1	0	0	2																				
Neodoris chrysoderma	0	0	0	0																				
Neosebastes scorpaenoides	0	0	0	0																				
Neothyonidium spp.	0	5	0	0																				
Nepanthia troughtoni	0	0	0	0																				
Nesogobius sp.	0	0	19	0																				
Norfolkia clarkei	0	2	2	9																				
Nudibranchs	0	0	0	1																				
Octopus maorum	0	0	0	0																				
Odax acroptilus	0	0	0	0																				
Ostrea spp.	0	0	0	0																				
Pagurid (grey)	0	0	0	0																				
Pagurid spp.	0	0	0	0																				
Parablennius tasmanianus	0	0	0	0																				
Paragrapsus gaimardii	0	0	0	0																				
Paranepanthia grandis	0	0	0	0																				
Parascyllium ferrugineum	0	0	0	0																				
Parma victoriae	0	0	0	0																				
Patiriella brevispina	1	0	0	0																				
Patiriella calcar	0	0	0	0																				
Patiriella gunnii	0	0	0	0																				
Pempheris multiradiata	0	0	0	0																				
Penion mandarinus	0	0	0	0																				
Pentagonaster dubeni	0	0	1	3																				
Petricia vernicina	2	0	0	0																				
Petrocheles australiensis	0	0	0	0																				
Phasianella australis	0	0	0	0																				
Phasianella ventricosa	3	7	0	0																				
Phasianotrochus eximius	0	1	0	0																				

Species	0.1.10	0.1.5	0.3.5	0.4.10	0.7.10	0.8.5	0.9.10	10.1.5	10.2.5	10.3.5	10.4.5	10.5.5	10.6.5	10.7.5	10.8.5	11.1.5	11.10.5	11.11.5	11.12.5	11.2.5	11.3.5	11.4.5	11.7.5	11.8.5
Phasianotrochus rutilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phlyctenactis tuberculosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phlyctenanthus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllacanthus irregularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	4	5	4	6	24	0	1	0	0	5	0	3	1	3	4	2	3	3	1	0	4	3	1	5
Plectaster decanus	0	0	0	0	0	0	0	0	0	2	1	5	0	3	2	1	2	0	0	0	3	1	2	1
Pleuroploca australasia	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis barbata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranella australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sabellastarte spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0
Sepia apama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Serpulids	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	0	0	1	1	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tosia australis	0	0	0	0	0	0	0	2	2	1	2	0	0	0	2	0	0	0	0	0	0	0	0	0
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Turbo undulatus	0	7	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unidentified Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uniophora granifera	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	11.9.5	13.1.10	13.1.5	13.10.10	13.11.10	13.2.5	13.3.10	13.4.10	13.5.10	13.6.10	13.7.10	13.8.10	13.9.10	14.1.5	14.10.5	14.11.5	14.12.5	14.2.5	14.3.5	14.4.5	14.5.5	14.6.5	14.7.5	14.8.5
Phasianotrochus rutilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phlyctenactis tuberculosa	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Phlyctenanthus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllacanthus irregularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	8	4	1	6	4	10	3	7	5	0	19	1	1	5	14	2	8	1	4	5	0	3	1	9
Plectaster decanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleuroploca australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	3	0	0
Pseudolabrus psittaculus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis barbata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranella australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
Sabellastarte spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1	0	0	3	2	1	0
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sepia apama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Serpulids	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	0	1	0	2	2	4	0	0	3	9	0	2	4	1	0	0	0	0	1	1	1	0	0	0
Tosia australis	4	0	0	0	0	0	0	0	10	0	0	0	1	0	10	3	2	0	0	0	0	1	0	15
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	0	1	0	1	0	1	0	2	0	0	0	4	0	1	3	6	3	1	5	1	7	9	4	3
Turbo undulatus	0	0	14	4	9	2	3	4	11	0	0	0	1	2	185	0	5	80	0	0	3	3	1	3
Unidentified Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uniophora granifera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	5	0	0	1	0	0	0	0	0

Species	14.9.5	17.1.5	17.10.5	17.11.5	17.12.5	17.13.5	17.14.5	17.15.5	17.2.5	17.3.10	17.3.5	17.4.10	17.4.5	17.5.5	17.6.5	17.7.10	17.7.5	17.8.10	17.8.5	17.9.5	18.1.5	18.10.5	18.11.5	18.12.5
Phasianotrochus rutilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phlyctenactis tuberculosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Phlyctenanthus australis	0	0	0	2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Phyllacanthus irregularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	12	4	15	2	8	4	3	5	8	2	6	1	7	7	7	3	11	0	7	4	0	5	9	3
Plectaster decanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleuroploca australasia	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis barbata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Ranella australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Sabellastarte spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	4	0	0	0	0	2
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sepia apama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Serpulids	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	0	0	0	1	0	0	0	0	0	0	0	0	0	12	7	0	0	0	0	0	0	2	0	4
Tosia australis	12	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	1	1	0
Tosia magnifica	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0
Trizopagurus strigimanus	1	1	0	0	0	0	0	0	0	2	1	0	2	0	5	1	0	1	1	1	0	0	3	0
Turbo undulatus	44	0	0	1	0	0	7	8	6	0	4	0	0	0	0	0	0	0	0	0	0	0	4	2
Unidentified Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Uniophora granifera	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	1	6	0	0	0	0	0

Species	18.2.5	18.3.10	18.4.10	18.4.5	18.6.5	18.7.5	18.8.5	18.9.5	19.1.5	19.10.10	19.11.10	19.12.5	19.13.10	19.14.5	19.15.10	19.16.5	19.17.5	19.18.5	19.19.10	19.2.5	19.3.10	19.3.5	19.4.5	19.5.10
Phasianotrochus rutilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phlyctenactis tuberculosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phlyctenanthus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllacanthus irregularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	0	13	0	7	8	10	4	0	74	6	5	5	20	37	15	31	16	32	14	39	3	41	30	24
Plectaster decanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pleuroploca australasia	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Pseudolabrus psittaculus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis barbata	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranella australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sabellastarte spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	4	0	0	0	0	0
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Sepia apama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Serpulids	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	1	2	0	0	0	1	6	0	0	0	1	0	0	0	0	4	1	3	0	0	0	1	0	6
Tosia australis	2	0	0	0	0	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	0	2	0	0	3	0	3	0	2	0	0	10	2	1	1	4	1	4	1	2	2	3	1	9
Turbo undulatus	0	2	0	1	149	95	4	0	0	0	0	10	0	0	0	9	0	1	0	0	33	7	2	87
Unidentified Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uniophora granifera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

Species	19.5.5	19.6.5	19.7.5	19.8.10	19.9.10	2.1.5	2.6.5	2.7.5	20.1.5	20.10.10	20.11.10	20.12.10	20.13.10	20.2.10	20.5.10	20.6.10	20.7.10	20.8.10	20.9.10	21.13.5	21.14.5	21.15.5	21.16.10	21.4.5
Phasianotrochus rutilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phlyctenactis tuberculosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phlyctenanthus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllacanthus irregularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	13	27	1	10	14	1	3	3	8	0	1	0	6	1	3	1	1	2	0	0	4	0	3	20
Plectaster decanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Pleuroploca australasia	0	0	1	0	0	0	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0
Pseudolabrus psittaculus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis barbata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranella australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sabellastarte spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	4	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Sepia apama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Serpulids	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
Tosia australis	0	0	13	0	0	4	12	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Tosia magnifica	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	0	0	0	4	2	0	4	1	0	1	0	0	0	2	0	0	0	0	2	1	0	0	7	0
Turbo undulatus	15	18	188	0	1	0	21	1	0	0	0	0	0	0	1	11	0	0	0	0	63	175	10	12
Unidentified Crab	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Uniophora granifera	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

Species	21.5.5	21.6.5	21.7.5	21.8.5	21.9.5	22.1.5	22.10.5	22.11.5	22.2.5	22.3.5	22.4.5	22.5.5	22.6.5	22.7.5	22.8.5	22.9.5	23.1.5	23.2.5	23.3.10	24.1.10	24.1.5	24.2.5	24.3.5	24.4.10
Phasianotrochus rutilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phlyctenactis tuberculosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phlyctenanthus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0
Phyllacanthus irregularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	3	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	3	0	1
Plectaster decanus	2	0	1	0	3	2	0	0	0	0	2	2	2	0	0	1	0	0	0	0	0	0	0	0
Pleuroploca australasia	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Pseudolabrus psittaculus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis barbata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranella australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sabellastarte spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	2	1
Scutus antipodes	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sepia apama	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Serpulids	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	13	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tosia australis	22	7	1	14	0	0	0	0	0	0	0	0	3	0	0	0	1	0	1	0	0	0	0	0
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	1	0	0
Trizopagurus strigimanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turbo undulatus	12	99	29	6	0	0	2	0	0	0	0	1	50	0	0	0	50	16	21	0	2	0	0	1
Unidentified Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uniophora granifera	4	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	24.5.10	24.6.5	4.3.5	4.4.5	4.5.5	4.6.5	6.1.5	6.2.5	6.3.5	6.4.5	6.5.5	6.7.5	7.1.5	7.2.5	7.3.5	7.4.5	7.5.5	7.6.5	7.7.10	7.8.10	7.9.10	8.1.5	8.10.5	8.11.5
Phasianotrochus rutilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phlyctenactis tuberculosa	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phlyctenanthus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllacanthus irregularis	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	1	0	11	6	0	7	0	0	0	0	1	0	3	0	3	0	1	6	0	0	0	0	0	0
Plectaster decanus	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	2	1	5	5	0	0	0
Pleuroploca australasia	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Pseudolabrus psittaculus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Pseudophycis bachus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis barbata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranella australasia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sabellastarte spp.	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	0	0	0	0	0	1	2	0	0	3	0	0	0	1	0	0	0	1	0	0	0	0	1
Scutus antipodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Sepia apama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Serpulids	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichopus mollis	0	0	17	1	0	0	0	0	2	4	0	3	0	0	0	1	0	0	0	0	0	0	0	0
Tosia australis	0	0	1	7	1	0	0	0	0	0	0	1	0	0	4	3	2	5	1	1	2	3	0	2
Tosia magnifica	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Turbo undulatus	0	743	2	23	0	0	0	0	0	0	0	0	7	0	1	0	0	22	0	4	0	9	5	1
Unidentified Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uniophora granifera	0	0	0	0	0	2	0	0	3	0	0	9	0	2	1	0	0	0	1	0	0	0	0	0
Vincentia conspersa	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1

Species	8.12.8/4	8.2.5	8.3.5	8.4.5	8.5.5	8.6.5	8.7.10	8.8.10	8.9.5	9.1.5	9.10.10	9.11.10	9.12.5	9.13.10	9.14.5	9.15.5	9.16.5	9.17.10	9.18.10	9.19.10	9.2.5	9.3.5	9.4.5	9.5.5
Phasianotrochus rutilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Phlyctenactis tuberculosa	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phlyctenanthus australis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllacanthus irregularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllopteryx taeniolatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plagusia chabrus	0	0	1	0	0	1	1	2	0	0	0	0	0	0	1	0	0	0	0	0	1	1	4	0
Plectaster decanus	0	0	1	0	0	0	0	0	0	1	0	0	3	1	0	0	1	1	2	5	3	0	0	5
Pleuroploca australasia	0	1	2	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	2	1	0	1	0	5
Pseudolabrus psittaculus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis bachus	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudophycis barbata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ranella australasia	0	1	1	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1	0	0	1	1	0	2
Sabellastarte spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Sassia parkinsonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scorpaena papillosa	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
Scutus antipodes	0	0	1	1	2	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Sepia apama	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Serpulids	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0
Stichopus mollis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tosia australis	0	9	1	1	3	0	2	2	1	1	0	0	1	0	0	0	0	2	4	3	2	3	1	3
Tosia magnifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trizopagurus strigimanus	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	3	2	2	1
Turbo undulatus	0	45	201	4	12	11	11	28	18	6	0	0	0	0	74	7	0	0	0	1	85	38	325	45
Unidentified Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uniophora granifera	0	0	0	0	0	0	1	0	0	2	0	0	1	0	0	0	0	0	3	8	0	1	0	0
Vincentia conspersa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Species	9.6.5	9.7.5	9.8.10	9.9.10																				
Phasianotrochus rutilus	0	0	0	0																				
Phlyctenactis tuberculosa	0	0	0	0																				
Phlyctenanthus australis	0	0	0	0																				
Phyllacanthus irregularis	0	0	0	0																				
Phyllopteryx taeniolatus	0	0	0	0																				
Plagusia chabrus	0	0	0	0																				
Plectaster decanus	1	0	1	4																				
Pleuroploca australasia	2	4	1	1																				
Pseudolabrus psittaculus	0	0	0	0																				
Pseudophycis bachus	0	0	0	0																				
Pseudophycis barbata	0	0	0	0																				
Ranella australasia	0	0	0	0																				
Sabellastarte spp.	0	0	0	0																				
Sassia parkinsonia	0	0	0	0																				
Scorpaena papillosa	0	0	0	1																				
Scutus antipodes	0	0	0	0																				
Sepia apama	0	0	0	0																				
Serpulids	0	0	0	0																				
Stichopus mollis	0	0	0	0																				
Tosia australis	2	4	0	0																				
Tosia magnifica	0	0	0	0																				
Trizopagurus strigimanus	1	1	2	0																				
Turbo undulatus	20	53	0	0																				
Unidentified Crab	0	0	0	0																				
Uniophora granifera	0	0	0	0																				
Vincentia conspersa	0	0	0	0																				

Group	Species	0.1.10	0.1.5	0.3.5	0.4.10	0.7.10	0.8.5	0.9.10	10.1.5	10.2.5	10.3.5	10.4.5	10.5.5	10.6.5	10.7.5	10.8.5	11.1.5	11.10.5	11.11.5	11.12.5	11.2.5	11.3.5	11.4.5	11.7.5	11.8.5
Brown algae																									
B	*Acrocarpia paniculata*	2.4	10.6	1.5	3.3	0	2.4	0	0.9	0	0	0	0	6.6	17.7	4.8	1.7	10.2	6.1	11.3	13.3	18.7	6.8	14.8	0
B	*Acrocarpia robusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown algae unidentified	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown turf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Carpoglossum confluens*	4.6	0	0	0	0	0	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Carpomitra costata*	0.4	0	0	0	0.5	0.2	1.3	0	0	0	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis cephalornithos*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis uvifera*	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	2.5	0.5	0	0	0	0
B	*Chlanidophora microphylla*	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia peregrina*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia sinuosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora expansa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora intermedia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora monilifera*	0	0	0	0	0	0	0	9	1.8	0	0	0	1	0	2.5	0	0.5	1.6	2	3.9	0	16.3	0.7	0.7
B	*Cystophora moniliformis*	0.8	0.7	2.5	0	0	0	0	1.6	0	0	1	0	11.7	8.4	15.1	5.2	5.2	7	8	9.7	8.9	10.5	0	1.3
B	*Cystophora platylobium*	0	0	2.4	0.8	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retroflexa*	0	1	0	0	0	0	0	3.8	1.8	0	0	0	5.1	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora subfarcinata*	0	0	0	0	0	0	0	8.8	0	0	0	0	0	1.6	13.8	2.1	0	0	5.5	0.2	0	0	0.7	0
B	*Cystophora xiphocarpa*	0	0	0	1.2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Desmarestia ligulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	1.6	0	0	0	0.2	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyota dichotoma*	0	0	0.4	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyota diemensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dilophus gunnianus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Distromium flabellatum* (iridescent)	0	0	0	0	0	0	4.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Durvillaea potatorum*	0	10	0	0	0	15.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Ecklonia radiata*	57.8	34.4	50.7	78.7	60.2	24.6	46.3	17	0	52.9	88.9	0	10.2	30.9	34.2	5.4	31.8	47.8	22.4	33.1	19.4	27.9	7.5	79.2
B	*Ectocarpus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Encrusting brown algae	0	0	0	0	0	0	0	0	0	0	0	0	5.2	0	0	0	0.5	0	0	0.3	0.5	0.6	0	0
B	Filamentous browns	0	0	0	0	0	0	0	0	22.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Filograna implexa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Halopteris paniculata*	0	1.2	0.8	2.5	0	0.4	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Halopteris* spp.	0	0	0	0	0	0	0	0	0	0.8	4.5	0	0	0	0	0	0.5	5	0.4	0.85	0.2	2.2	0.1	0.4
B	*Hincksia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Homeostrichus olsenii*	0.2	0	0	0.6	0	2.4	1.5	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Leathesia difformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Lessonia corrugata*	0	0.2	0	0	0	0.4	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Lobophora variegata*	0	0	0	0	0	0	0.8	0	1	0	0	0	0.9	0	0	0	0.3	0	0	0	0	0	0	0
B	*Lobospira bicuspidata*	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0.2	0	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Myriodesma integrifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Pachydictyon paniculatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	0	0	0	0	0	0	0	0	0	0	0	0	2.3	11	0	3.5	0	0	2.2	0	2.5	0.8	0	0
B	*Phyllospora comosa*	22.6	26.8	10	7.7	19.1	15.6	25.4	0.8	0	51.5	23.2	0	0	0	0	56.5	2.8	19	5.1	40.1	60.7	9.4	20.6	24.6
B	*Sargassum decipiens*	0	0	0	0	0	0	0	14.2	1.8	0	0	0	1.4	0	0	0	0	0	0	0	0	9.7	0	0
B	*Sargassum fallax*	0	0.1	0	0	0	0	0	2.6	1	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	44.1	0	0	0	0	0	12.3	2.2	0	3.9	0	0
B	*Sargassum lacerifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum paradoxum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	11.9.5	13.1.10	13.1.5	13.10.10	13.11.10	13.2.5	13.3.10	13.4.10	13.5.10	13.6.10	13.7.10	13.8.10	13.9.10	14.1.5	14.10.5	14.11.5	14.12.5	14.2.5	14.3.5	14.4.5	14.5.5	14.6.5	14.7.5	14.8.5
Brown algae																									
B	*Acrocarpia paniculata*	0.7	0	0	1.8	4.1	0	0	1.6	3.5	0	0	0	0	0	5.6	0	0	4.2	0	1	22.4	2.2	5.3	3.9
B	*Acrocarpia robusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown algae unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown turf	0	0	0	0	0	0	0	0	0	0	0	0.6	0	3.6	1.8	0	21.1	0	0	0	0.2	4.7	4.5	2.7
B	*Carpoglossum confluens*	0	0	0	0	0	0	0	0	0	0	0	0	0	5.8	0	0	0	0	11.4	0	0.2	0.4	0	0
B	*Carpomitra costata*	0	0.4	0	0.8	2.8	0	0.4	1	0.6	0	0	0	0	0.1	0	0	0	0	0.2	0	0	0	0	0
B	*Caulocystis cephalornithos*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0.9	5.6	0	0	0	0	0	7.8	5.4
B	*Caulocystis uvifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	4.6	6.7	0
B	*Chlanidophora microphylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia peregrina*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia sinuosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia* spp.	0	0	0	0	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora expansa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.9
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora intermedia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora monilifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0
B	*Cystophora moniliformis*	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	17.7	0	0.2	29	0	0	4.9	29.1	0	1.2
B	*Cystophora platylobium*	0	0	0	0.5	0	0	0	0	1	1	0	0.6	0	3	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0
B	*Cystophora retroflexa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.8	11.7	0	0	0	9.1	16.9	16.6	31.6
B	*Cystophora subfarcinata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.3	0	0	0	0	0	0	0	0	0
B	*Cystophora xiphocarpa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Desmarestia ligulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	8.7	0	0	0	0	0.2	1.5	4.5
B	*Dictyota dichotoma*	0	0	0	0.4	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyota diemensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dilophus gunnianus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0
B	*Distromium flabellatum* (iridescent)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Durvillaea potatorum*	0	0	11.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Ecklonia radiata*	16.4	20.1	3.1	19.1	56.7	30.2	35.1	54.5	48.3	13.9	0	15.8	0.9	35.4	0.4	14.8	2.9	14.6	27.8	49.4	23.9	8.7	0.7	3
B	*Ectocarpus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Encrusting brown algae	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Filamentous browns	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.4	34.2	0	0	0	4	1.6	30.5	0
B	*Filograna implexa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Halopteris paniculata*	0	0	0	1.8	3.2	0	0	3.1	0.7	0	0	0	0	0	6.6	0	0	0.1	0	0	0	1.4	0	0
B	*Halopteris* spp.	0	0	0.2	0	0	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Hincksia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Homeostrichus olsenii*	0	0	0	0.8	2.9	0	0	0.6	0.6	0	0	0	0	2.1	0.4	0.3	0	0.1	0.4	0	1.4	1.8	0	2.6
B	*Leathesia difformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Lessonia corrugata*	0	0	0.3	0	0	0	0	0	0	5.6	0	0	0.2	0	0.8	0	0	0	0	0	0	0	0	0
B	*Lobophora variegata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Lobospira bicuspidata*	0	0	0	0	0	0	0	0	0	2.8	0	0	0	0	3.6	0	0	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Myriodesma integrifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Pachydictyon paniculatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Phyllospora comosa*	94.8	64.4	77.5	85.2	39	70.9	73.5	29.3	13.2	80	0	84.6	98.6	42.2	65.2	0	0	58.3	65.3	4.5	2.5	18.1	0	0
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.8	3.3	1.6	0	0	0	2.3	11	4.4	9.5
B	*Sargassum fallax*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.2	5.8	0	0	0	0	0	5.9	4.7
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	0
B	*Sargassum lacerifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4	0
B	*Sargassum paradoxum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	14.9.5	17.1.5	17.10.5	17.11.5	17.12.5	17.13.5	17.14.5	17.15.5	17.2.5	17.3.10	17.3.5	17.4.10	17.4.5	17.5.5	17.6.5	17.7.10	17.7.5	17.8.10	17.8.5	17.9.5	18.1.5	18.10.5	18.11.5	18.12.5
Brown algae																									
B	*Acrocarpia paniculata*	0	9	7.8	0.2	3.2	0	0	1.3	0	4.9	2.9	0	0	0.2	0	0	1.8	3.5	18.9	2.8	2.6	4.1	4.4	0
B	*Acrocarpia robusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown algae unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown turf	2.9	0	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	2	0	0
B	*Carpoglossum confluens*	0	4	0	0	0	0	0	0	0	0	0	3.5	2.2	0	10	4.1	0	8.3	15.6	0	2.4	1	13.9	5.6
B	*Carpomitra costata*	0	0	1.6	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0.2	0	0	0	0	0	0
B	*Caulocystis cephalornithos*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis uvifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Chlanidophora microphylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia peregrina*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia sinuosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora expansa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora intermedia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora monilifera*	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	12.7	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	1.4	0	0	0	8.8	4.9
B	*Cystophora platylobium*	0	0	0.6	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	1.6	1.2	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retroflexa*	0	0	0	0	0	0	0	0	0	0	0	3.4	2	0	1.6	0	0	0.7	2	0	0	0	0	0
B	*Cystophora subfarcinata*	2.6	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora xiphocarpa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Desmarestia ligulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0.4	0	0	0	0	0
B	*Dictyota dichotoma*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	1.4	0	0	1.6	0
B	*Dictyota diemensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dilophus gunnianus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Distromium flabellatum* (iridescent)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Durvillaea potatorum*	0	2.4	7.5	43.5	44.9	3.4	92.8	0	10.3	0	25	0	0	0	0	0	0	0	0	1	57.8	0.9	0	0
B	*Ecklonia radiata*	0	38.9	11.9	1.1	4.6	11.8	0	46.2	12.1	35.6	9.4	23.2	6.6	10.1	33.8	42.6	21.5	3	26.2	24.4	13.5	18.3	54.1	15.9
B	*Ectocarpus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Encrusting brown algae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Filamentous browns	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4	0	0	0	0	0
B	*Filograna implexa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Halopteris paniculata*	1.9	1.6	0	0.7	0	0.4	0	0.3	0.6	0.8	0.5	0.1	0	0	0	0	0	0.4	0	1.6	0	0	0.6	0.4
B	*Halopteris* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Hincksia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Homeostrichus olsenii*	0.3	0.2	1.2	0	0	0	0	0	0	0.2	0	0.9	2.4	0.8	2.7	0	0.2	1	1.3	1.3	0	0	1.2	0
B	*Leathesia difformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Lessonia corrugata*	0	16.6	31.7	16	10.2	0	0	4.1	1.7	12.1	22.8	0	0	1.4	0	0	0	0	0	24.4	50.2	42.3	0	0.4
B	*Lobophora variegata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Lobospira bicuspidata*	4.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0
B	*Myriodesma integrifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Pachydictyon paniculatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	0	0	0	0	0	0	0	0	5.3	0	0	0.2	0	0	0	0	0	0	0	39	0	3.4	5.3	0
B	*Phyllospora comosa*	67.2	24.3	45.5	6.1	31.3	94.2	9	43.1	17.9	41.2	36	30	24.9	64.9	59.8	11.9	54.2	0	9.8	20.2	0	28.3	13.1	79.9
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum fallax*	0	2.8	0	0	0	0	0	0	0	0	0	3	1.8	0	9.2	0	0	0.4	0	0	0	0	0	0
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum lacerifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum paradoxum*	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0

Group	Species	18.2.5	18.3.10	18.4.10	18.4.5	18.6.5	18.7.5	18.8.5	18.9.5	19.1.5	19.10.10	19.11.10	19.12.5	19.13.10	19.14.5	19.15.10	19.16.5	19.17.5	19.18.5	19.19.10	19.2.5	19.3.10	19.3.5	19.4.5	19.5.10
Brown algae																									
B	*Acrocarpia paniculata*	7.4	0	26.2	5.2	0	14.4	11.3	16.1	0	0	0	0	0	0	2.4	0	0	0.3	1.5	0	0	0	0	0.7
B	*Acrocarpia robusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown algae unidentified	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	9.4	0	0	0	0	0	0	0	0	0
B	Brown turf	0.6	0	3.6	0	0	3.4	0	0	0	0	0.6	0	0	0	2.4	0	0	0	0	0	0	0	0	0
B	*Carpoglossum confluens*	4.4	0	7.9	4.4	0	1	16.7	9.1	0	0	0	0	0.8	0	4.3	0	0	5.2	0	0	0.6	0	0	0
B	*Carpomitra costata*	0	0	0.6	0	0	0	0	0	1.2	0.7	0.7	0	5.2	0	0.4	0.2	0	0.8	0	0.4	0.4	0.4	0	0.4
B	*Caulocystis cephalornithos*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis uvifera*	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Chlanidophora microphylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia peregrina*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia sinuosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora expansa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora intermedia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora monilifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	0	0	0	0	0	6.7	1.4	2.7	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0
B	*Cystophora platylobium*	2.4	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retroflexa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4	0	0	0	0	0	0
B	*Cystophora subfarcinata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora xiphocarpa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0
B	*Desmarestia ligulata*	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0.6	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0
B	*Dictyota dichotoma*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0
B	*Dictyota diemensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dilophus gunnianus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Distromium flabellatum* (iridescent)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Durvillaea potatorum*	7.4	4.2	0	9.8	0	0	0	0	0	0	0	1.4	0	0	0	10	0	0	0	35.6	0	0	1.2	0
B	*Ecklonia radiata*	25.7	2.5	0.2	0.2	0	46.6	46	20.2	37.7	57.9	30.3	35.4	42.6	37.7	64.3	28.2	6.8	29	1.9	14	48.6	22.3	27.5	22.1
B	*Ectocarpus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Encrusting brown algae	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0	0	1.3	0	0	0
B	Filamentous browns	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Filograna implexa*	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Halopteris paniculata*	0.4	0	0	0	0	0.7	0	2	2.1	1.5	5	0	0.1	11	10	0.4	0.4	5.9	0.5	0	1.1	0.2	0	0.4
B	*Halopteris* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
B	*Hincksia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Homeostrichus olsenii*	0	0	0.2	0.2	0	0.9	0	0.8	0.6	0	0.4	0	0.4	2.2	1.4	0.2	0	0.6	0	0	0.1	0	2.2	0
B	*Leathesia difformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Lessonia corrugata*	43.6	14.8	0	0	0	0	20.3	12	0	0	0	11.6	13.1	0	0	0	0	2.4	0	1.8	0	0	0	2.6
B	*Lobophora variegata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Lobospira bicuspidata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0.2	1.6	0	0	0	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Myriodesma integrifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Pachydictyon paniculatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	0	0.2	0	1.6	0	0	0	7.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Phyllospora comosa*	28.8	9.4	0	47.7	0	0	0	0	55.4	10.5	58.3	62.7	29.5	40.4	23.9	64	91.7	65.8	88.8	70.5	17	249.4	66.5	63
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum fallax*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum lacerifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum paradoxum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	19.5.5	19.6.5	19.7.5	19.8.10	19.9.10	2.1.5	2.6.5	2.7.5	20.1.5	20.10.10	20.11.10	20.12.10	20.13.10	20.2.10	20.5.10	20.6.10	20.7.10	20.8.10	20.9.10	21.13.5	21.14.5	21.15.5	21.16.10	21.4.5
Brown algae																									
B	*Acrocarpia paniculata*	0	0	0	0.9	2.7	11.8	4.1	8.1	0	1.6	9.4	0	7.2	0	0	0	0	9	6.3	7.2	0	0	22.2	0
B	*Acrocarpia robusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown algae unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown turf	0	0	0	0	0	0	5.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Carpoglossum confluens*	0	0	0	2.2	5.9	1.3	0.3	0	0	2.9	7.5	0	0	8.9	0.4	2.4	0	3	0	0	0	0	0	0
B	*Carpomitra costata*	0	0	0	0.1	1.9	0.1	0	0	0	0	0.3	0	0	0	0	0.3	0	0	0	0	0	0	0	0.2
B	*Caulocystis cephalornithos*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis uvifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.1	0	0	0	0
B	*Chlanidophora microphylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia peregrina*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia sinuosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora expansa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19.1	0	6.6	1	0
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora intermedia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0
B	*Cystophora monilifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.2	0	0	0.2	0
B	*Cystophora moniliformis*	0	0	0.2	0	0	3.7	17.8	36.9	0	0	0	0	0	0	0	0	0	0	0	5.2	1.2	6.5	4.6	0
B	*Cystophora platylobium*	0	0	1	0.4	0	0.2	1.4	0	3	5.4	2.2	1.7	0	3.8	1.4	2.4	8.5	4	2.5	0	0	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retroflexa*	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora subfarcinata*	0	0	0	0	0	0	0	6.5	0	0	0	0	0	0	0	0	0	0	0	1.8	0	0	1.2	0
B	*Cystophora xiphocarpa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Desmarestia ligulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.2	1.2	0	0	0	0
B	*Dictyota dichotoma*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyota diemensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dilophus gunnianus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8	0	12	0	0
B	*Distromium flabellatum* (iridescent)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Durvillaea potatorum*	20.7	26.2	1	0	0	0.4	0	0	37	81.5	0	1	0.7	1.7	34.1	47.6	85.8	0	2	0	0	0	0	0
B	*Ecklonia radiata*	4.7	1.7	1.3	51.7	49.9	9.3	4.5	4.4	3.7	4.5	2.1	11	40	12.4	7.7	13.5	0.4	2.3	9.4	0	21.1	0	0	50.2
B	*Ectocarpus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Encrusting brown algae	0	0	0	0	0	0	0	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Filamentous browns	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Filograna implexa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Halopteris paniculata*	1.7	0	0	1.3	11.6	1.4	3.5	0	0	0	0	0	0	1.8	0.1	0	0	0	0	0	0.4	1.6	5	0.5
B	*Halopteris* spp.	0	0	0	0	1.4	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Hincksia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Homeostrichus olsenii*	0	0	0	0.1	1.2	1.4	2.7	2.6	0	0	0	0	0	0	0	0	0	0	0	2.4	0.2	3	2	1.4
B	*Leathesia difformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Lessonia corrugata*	3	0	0	0	0	0	0	0	7.8	0	0	6.6	7.9	4.5	6.7	8.7	0	0.8	1.3	0	0	0	0	0
B	*Lobophora variegata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.4	0	0	0	0
B	*Lobospira bicuspidata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	0	0	0.8	0.9	0	2.5	0.5	0	0	0	0	0	0	0	0	0
B	*Myriodesma integrifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Pachydictyon paniculatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	0	0	0	0	0	0	0	0.6	8.3	0	0.8	0	0	0	0.2	0	1.6	0	0	0	0	1	12.5	0
B	*Phyllospora comosa*	70.5	74.5	84.5	18.5	34.1	50.6	17	23.9	28.2	6.4	66.1	68.4	50	72.4	28.1	29.8	14.6	32.9	6.4	0	76.2	57.1	32.5	56.9
B	*Sargassum decipiens*	0	0	0	0	0	0	0	33.8	0	0	0	0	0	0	0	0	0	0	0	6.4	0	7.6	0	0
B	*Sargassum fallax*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.8	0	0	0	0
B	*Sargassum lacerifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum paradoxum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	21.5.5	21.6.5	21.7.5	21.8.5	21.9.5	22.1.5	22.10.5	22.11.5	22.2.5	22.3.5	22.4.5	22.5.5	22.6.5	22.7.5	22.8.5	22.9.5	23.1.5	23.2.5	23.3.10	24.1.10	24.1.5	24.2.5	24.3.5	24.4.10
Brown algae																									
B	*Acrocarpia paniculata*	22.2	11.8	4.5	24.6	9	46.4	41.4	5.4	46.5	12.9	50.1	43.4	37.8	54.9	0.2	28.2	4.1	21.3	2.5	0	3.8	0	9.7	4.5
B	*Acrocarpia robusta*	0	0	10.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown algae unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown turf	0	0	0	8.6	13.2	0	0.3	0	0	4.1	1.8	1.6	0	0	0	0.6	0	0	0	0	0	0	0	0
B	*Carpoglossum confluens*	0	0	0	0	0	2.1	0	0	9	4.6	2.8	0	0	3.5	0.2	0	2.3	0	1.1	22.5	11.1	30.4	12.6	10.3
B	*Carpomitra costata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis cephalornithos*	0	0	0	0	0	2	0	0	0	1	0	6.6	0	0	0	4.2	0	0	0	0	0	0	0	0
B	*Caulocystis uvifera*	0	0	0	0	0	10.1	0.3	8.2	4	1.8	1.2	0	0	0	0	4.8	0	0	0	0	0	0	0	0
B	*Chlanidophora microphylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia peregrina*	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia sinuosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora expansa*	3.2	2.9	8.2	0	3.8	5.9	0	0	0	1.8	0	10.7	0	0	0	1.7	0	0	0	0	0	0	0	0
B	*Cystophora grevillei*	0	0	0	0	0	12	4.8	8.2	3.6	0.6	12	0	0	0.4	0	7.6	0	0	0	0	0	0	0	0
B	*Cystophora intermedia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora monilifera*	9	3.9	2.4	0	7.3	0	0	0	0	5.4	3	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora moniliformis*	5.6	19.1	7.2	8.8	7.1	2.2	3.4	16.7	14.2	3.7	2.7	11.4	16	2	0.3	1.9	0	0	0	0	0	0	0	0
B	*Cystophora platylobium*	0.2	0	0	0	0	0	0	0	1.6	0	0	0	0	0	0	0	0	0	2.9	0	0	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retroflexa*	0	0	0	0	0	0	0	1.5	0	8	6	3.2	16.2	7.5	0	3.6	0	0	0	0	8.8	0.7	0.4	0
B	*Cystophora subfarcinata*	0	0	0	0.8	1.7	0	0	0	0	8.2	0	0	0	0	1.7	0	0	0	0	0	0	0	0	0
B	*Cystophora xiphocarpa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.8	4.5	0	0	0	0	0	0
B	*Desmarestia ligulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	0	0	2	0.9	1.1	0.1	0	0	0.4	0	0	0.2	0	0	0	0	0	0	0	0	0	0
B	*Dictyota dichotoma*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyota diemensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2	0.3	0	0	0	0	0	0
B	*Dilophus gunnianus*	0	0	0	0	1.8	0	0	0	0	0	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Distromium flabellatum* (iridescent)	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0
B	*Durvillaea potatorum*	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	3.5	9.1	0	0	0	0	0
B	*Ecklonia radiata*	28.7	10.7	0.5	18.8	5.7	1.1	0	0	0.3	5	6.3	0.6	15.6	0	0.9	6.2	0	0	4.7	31.4	59.7	30.5	22.7	18.2
B	*Ectocarpus* spp.	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Encrusting brown algae	0	0	0	0	0	2.4	1.9	0	1.3	0	1.4	3.8	0.4	0	0	1.4	0	0	0	0	0	0	0	0
B	Filamentous browns	0	0	0	0	0	0.4	0	0	0	0	0	0	0.6	0	7.8	21	1.8	0	0	0	0	0	0	0
B	*Filograna implexa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Halopteris paniculata*	0.4	1.2	0.3	4.4	2.8	5.3	0.9	0.2	0.9	6	4.8	1.8	4	2.8	0.6	1.5	1.2	3.1	10.7	0.6	0	0.7	3.6	0.1
B	*Halopteris* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Hincksia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Homeostrichus olsenii*	0.7	0	0.3	0.6	2.6	0.3	0	1.9	0.2	1.2	1.7	0	0	2.6	0	1	0.8	0	0.7	0.8	0	0	0	0
B	*Leathesia difformis*	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Lessonia corrugata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Lobophora variegata*	0	0	0	0	0.8	0.2	4	0	0	0	0	0.5	1.8	0	0	0.4	0	0	0	0	0	0	0	0
B	*Lobospira bicuspidata*	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0.6	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	18.2	2.8	1.2	0	0.1	0	0	0
B	*Myriodesma integrifolium*	0	0	0	0	0	1	0	0	0	4.6	0.8	1.5	0	0	0	0	0	0	0	0	0	0	0	0
B	*Pachydictyon paniculatum*	0	0	0	0	0	4.5	7.8	6.2	0.9	3.2	3.8	4.4	6.6	14.8	0.7	6.8	0	0	0	0	0	0	0	0
B	*Perithalia caudata*	9.9	10.1	16.4	6.6	5.6	0	0	0	1.6	6.2	7	2.8	0	4.7	0	0	12.6	0	10.5	0	0	0	1.3	0
B	*Phyllospora comosa*	49.8	31.1	0	26.7	0	0	0	0	25.1	0	0	0	0	0	1.2	0	5.1	76.7	14.4	0	0	0	0	0
B	*Sargassum decipiens*	0	0	0	0	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum fallax*	0	0	1.7	0	0.2	0	0	0.3	0	1.8	0	3	0	0	0	0.6	0	0	0	0	0	0	0	0
B	*Sargassum heteromorphum*	0	0	0	0	1.2	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum lacerifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum paradoxum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	24.5.10	24.6.5	4.3.5	4.4.5	4.5.5	4.6.5	6.1.5	6.2.5	6.3.5	6.4.5	6.5.5	6.7.5	7.1.5	7.2.5	7.3.5	7.4.5	7.5.5	7.6.5	7.7.10	7.8.10	7.9.10	8.1.5	8.10.5	8.11.5
Brown algae																									
B	*Acrocarpia paniculata*	0	14.6	3.9	21	0	0.8	5.6	3	0	0	0	0	29.1	1.3	61.8	5.8	4.4	10.9	22.8	56.1	24.8	0	2.3	5.2
B	*Acrocarpia robusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0
B	Brown algae unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown turf	0	0	6.9	0.8	0	17.2	0	0	0	0	0	0	19	5.4	8.4	2.6	11.6	0	0	3.6	0	0	0	0
B	*Carpoglossum confluens*	0.2	17.1	9.1	10	0	37.1	7.6	10.5	0.7	7.3	5.3	0	0.2	0	2.2	0	0	0	7.9	2.2	8.8	1.6	0	0
B	*Carpomitra costata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0
B	*Caulocystis cephalornithos*	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.4	11.9
B	*Caulocystis uvifera*	0	0	0	0	0	1.8	0	0	0	0	0	0	0.6	0.3	0	6.8	12.1	0	1	0	0.2	0	6.8	0
B	*Chlanidophora microphylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia peregrina*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0.4
B	*Colpomenia sinuosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0
B	*Colpomenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora expansa*	0	0	0	0	0	0	0	0	0	0	0	0	0	3.9	0	10.1	2.2	0	0	0	0	0	0	14.6
B	*Cystophora grevillei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	6.6
B	*Cystophora intermedia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora monilifera*	0	0	0	0	0	0	0	0	0	0	0	0	2.4	0	6.6	6	13.6	3.3	0.2	0	0	0	7.8	19.2
B	*Cystophora moniliformis*	0	0	0	4	0	8.6	0	0	0	0	0	0	6.5	3.3	12	12	10.4	12	6.5	8.4	0.7	0	14.8	9.3
B	*Cystophora platylobium*	0	15.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora retroflexa*	0	0	0	0	0	0	0	0.3	4.1	3.6	5.5	0	0	0	0.2	0	7.6	0	3.8	2.1	0.6	0	0	0
B	*Cystophora subfarcinata*	0	0	0	0	0	0	0	0	0	0	0	0	7.2	14.5	0	2.2	4.8	0.8	1.7	3.4	2	0	7.6	0
B	*Cystophora xiphocarpa*	0	6.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Desmarestia ligulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	0.7	6.4	0	1.8	0	0.2	0.5	0.6	0	0	0	6.6	0	0.8	2.5	0	0	0	0	0	0	0
B	*Dictyota dichotoma*	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0.4
B	*Dictyota diemensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dilophus gunnianus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	5	0	0	1	0	0	0	0
B	*Distromium flabellatum* (iridescent)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Durvillaea potatorum*	84.7	58.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Ecklonia radiata*	0.2	2.6	37.1	2.7	0	18.2	17	18	14.5	69.6	21.1	0	0	1.8	0.6	0	2.8	0.6	0	0	0	19	0	10.3
B	*Ectocarpus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Encrusting brown algae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0
B	Filamentous browns	0	0	0	0	0	3.4	0	1.8	0	0	8.4	0	0	0.7	0	0	7.4	0	0	0	0	0	0	0
B	*Filograna implexa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Halopteris paniculata*	0	2.9	0.2	3.6	0	0	0	0	0	0	0	0	7.4	0	0.4	0	1.8	1.9	0.1	1	0.5	0	2.4	2.3
B	*Halopteris* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Hincksia* spp.	0	0	0	0	0	0	0	0	0	0	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Homeostrichus olsenii*	0	0	0	0.4	0	1.8	0.8	0.6	0	2.6	0	0	0.6	1.1	0.3	0.9	1.7	1.1	1.2	1.1	0.7	0	0	1
B	*Leathesia difformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Lessonia corrugata*	0	0	7.8	4.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Lobophora variegata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0
B	*Lobospira bicuspidata*	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	1.2	2	5.2	0.4	0	0	0	0	0	0.4
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis pyrifera*	0	0.4	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Myriodesma integrifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
B	*Pachydictyon paniculatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.4
B	*Perithalia caudata*	0	0	0	4.9	0	0	0	1.7	0.2	0	3.8	0	0	0	1.6	0	0	0	0	1.8	0	0	5.6	2.4
B	*Phyllospora comosa*	0	0	0	0	0	0	0	0.8	0	0	0	0	28.9	0	0	0	0	56.5	0	0	0	77.1	0	0.8
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	4.2	0	0	0	0	2.9	0	11.2	0	0	1.2	0	3.6	0	0	0
B	*Sargassum fallax*	0	0	0	0	5.9	0	10.3	5.8	11.7	11.2	21.1	0	0	0	0	2.2	2.7	1.4	0.4	0	0	0	0	0.8
B	*Sargassum heteromorphum*	0	0	0	0	0	0	0	0	0	0	0	0	1	3.5	0	2.3	2	0	1.9	0	0	0	0.8	0
B	*Sargassum lacerifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum paradoxum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	8.12.8/4	8.2.5	8.3.5	8.4.5	8.5.5	8.6.5	8.7.10	8.8.10	8.9.5	9.1.5	9.10.10	9.11.10	9.12.5	9.13.10	9.14.5	9.15.5	9.16.5	9.17.10	9.18.10	9.19.10	9.2.5	9.3.5	9.4.5	9.5.5
Brown algae																									
B	*Acrocarpia paniculata*	0	17.3	13.7	3	33.2	35.6	11.2	3.4	33.2	21.8	0.4	0.2	22.6	2.2	23.4	15.7	25.8	13.9	16.2	15.5	16.9	19.3	32.3	2.6
B	*Acrocarpia robusta*	0	0	0	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown algae unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Brown turf	0	5	0	0	0	0	0	0	0	16.5	0	0	0	9.2	2.2	5.1	0	7.2	5.9	2.4	0	2.8	0	10.4
B	*Carpoglossum confluens*	0	0	0	0.9	0.5	2.7	16.1	1.8	4.9	0	3	0	8.8	1.6	0.2	0	0	0	4.4	1	0	2.1	0	0
B	*Carpomitra costata*	0	0	0	0	0	0	0	0	0	0	0	2.4	0	0	0	0	0	0	0	0	0	0	0	0
B	*Caulocystis cephalornithos*	0	1	1.8	0	0	0	0	0	0	0	0.2	0	0	0	0	0	9	0	0	0	0	0	0	5
B	*Caulocystis uvifera*	0	0.8	0	0	0	0	0	0	0.4	1.6	0	0	0	0	0	0	0	2.4	0	0	0	1.4	0	5.6
B	*Chlanidophora microphylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia peregrina*	0	0.4	0	0.2	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia sinuosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Colpomenia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora expansa*	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	1	0	0	0	0	0	6.3
B	*Cystophora grevillei*	0	10	10.4	10.5	7.3	2.3	2.6	1.7	32.9	0	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0
B	*Cystophora intermedia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Cystophora monilifera*	0	0	4.2	2.7	0	0	0	0	0	0	0	0	0	0	0	0	2.8	0	0	0	6.6	0	0	3.4
B	*Cystophora moniliformis*	0	7	7.7	0.9	2.7	2	4.4	2.2	8.2	4.8	1	0.2	2.8	0	3.9	7.5	7.5	1.6	3.1	0	7.8	3.9	8.5	7.8
B	*Cystophora platylobium*	0	0	0	0	0	0	20.4	4.3	0	0	0	0	9	0	0	0.4	0	0	0	0	0	0	0	0
B	*Cystophora retorta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0
B	*Cystophora retroflexa*	0	0	0.4	1.6	9.8	10.9	0	1.8	4	5.8	0.7	0	0	0	20.6	7.5	7.8	4.9	9.1	1.4	3.2	6.2	5.2	10.3
B	*Cystophora subfarcinata*	0	3.9	0	0.4	0	0	0.8	0	13.4	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2	0
B	*Cystophora xiphocarpa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Desmarestia ligulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyopteris muelleri*	0	0	0	0	0	0	0	0	0	1.2	0.6	2.3	0	0	0.6	0	0	2.8	2.3	0.6	0	0	0	1.3
B	*Dictyota dichotoma*	0	0	0	0	0	0.4	0	0	0.2	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dictyota diemensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Dilophus gunnianus*	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0.4	0.6	0	0.6	0	0	0
B	*Distromium flabellatum* (iridescent)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0
B	*Durvillaea potatorum*	0	0	0	0	0	26.8	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Ecklonia radiata*	0	2.3	4.9	0	0	0	1.9	1	0	0	1	0	6	0	2.3	0.4	5.6	9.1	16.4	14	20.2	15.7	4.7	4.7
B	*Ectocarpus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	Encrusting brown algae	0	0	0	0	2.4	0.6	1.6	0	2	1	0	0	0.8	15.2	3.2	1	0	5	0.4	2.8	1.6	2.2	1.4	1.4
B	Filamentous browns	0	0	0	0	0	0	0	0	0	12.4	0	8.2	0	0	0	1	0	10.2	0	0	0.6	0	0	15.4
B	*Filograna implexa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Halopteris paniculata*	0	3.5	1.1	1.5	0.2	0.6	0	0.2	2.2	1.5	1.3	2.7	14.6	1.4	8	7.4	6.3	1.1	4.2	3.8	1.6	2	3.9	0
B	*Halopteris* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Hincksia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Homeostrichus olsenii*	0	0	0	0	0	0	0.5	0	0.2	1.8	0.4	0.6	2.6	0	1.2	3.2	2.4	2.6	2.4	0.2	1.4	4.4	1.8	0
B	*Leathesia difformis*	0	0	0	0	0	0	0	0	0	0.2	0.6	3	0.8	1.4	0	0.6	0	2.2	2.3	1	1	0	0	2
B	*Lessonia corrugata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.2	0	0
B	*Lobophora variegata*	0	2.6	0	0	0	0	0	0	0	0.8	4.5	5.8	0.2	4.5	0.6	0.6	0	2.6	8.6	0.8	0.6	0.8	0	0.8
B	*Lobospira bicuspidata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Macrocystis angustifolia*	0	0	0	0	0	0	0	0	0	1.6	0	0	0	0	0	0	0	0	0	0	0	9.8	32.7	0
B	*Macrocystis pyrifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Myriodesma integrifolium*	0	2	0	0	0	0	0	0	0	3	0	0	2.1	0	0	1.1	0	1.6	2.7	2.3	0.4	2	0	0.4
B	*Pachydictyon paniculatum*	0	0	0.8	0	0	0	0	0	1.7	0.7	0	0	4.6	0	4.2	0.7	2.8	0.8	0	0	0.4	0.6	0.6	0
B	*Perithalia caudata*	0	16.5	19.5	2.6	3.8	2	5.1	0.6	3	1	0	0	1.8	0	7.8	0	0.2	7.6	0	6.6	1.9	9.2	2.1	0
B	*Phyllospora comosa*	0	2	0.8	0	0	0	28	85.3	0	0	0	0	0	0	0	0	0	0	10.8	1.4	47.1	37.9	14.4	30
B	*Sargassum decipiens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	11.4	0	10	0	2.8	0	0
B	*Sargassum fallax*	0	0.4	0	0.2	0	0	0	0	0	0	1.8	0.5	0	0.6	0	0	0	2	8.6	2	0	0	0	0.2
B	*Sargassum heteromorphum*	0	4.4	0	0.6	0	0	0	0	0	1.6	0	0	0	0	0	0	0	0.3	4.7	0.6	0	0	0	0.7
B	*Sargassum lacerifolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum paradoxum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	9.6.5	9.7.5	9.8.10	9.9.10																				
Brown algae																									
B	*Acrocarpia paniculata*	26.6	47.1	0	8.8																				
B	*Acrocarpia robusta*	0	0	0	0																				
B	Brown algae unidentified	0	0	0	0																				
B	Brown turf	2.4	0	0	0																				
B	*Carpoglossum confluens*	1.2	0	0	1																				
B	*Carpomitra costata*	0	0	0	0																				
B	*Caulocystis cephalornithos*	0	0	0	0																				
B	*Caulocystis uvifera*	0	3.7	0	0																				
B	*Chlanidophora microphylla*	0	0	0	0																				
B	*Colpomenia peregrina*	0	0	0	0																				
B	*Colpomenia sinuosa*	0	0	0	0																				
B	*Colpomenia* spp.	0	0	0	0																				
B	*Cystophora expansa*	0	0	0	0																				
B	*Cystophora grevillei*	0	0	0.4	0																				
B	*Cystophora intermedia*	0	0	0	0																				
B	*Cystophora monilifera*	0.6	0	0	2.2																				
B	*Cystophora moniliformis*	4.4	26.9	0	0																				
B	*Cystophora platylobium*	1.2	2.4	0	0.4																				
B	*Cystophora retorta*	0	0	0	0																				
B	*Cystophora retroflexa*	0	4.4	2.2	0.4																				
B	*Cystophora subfarcinata*	0	0.4	0	0																				
B	*Cystophora xiphocarpa*	0	0	0	0																				
B	*Desmarestia ligulata*	0	0	0	0																				
B	*Dictyopteris muelleri*	0	0	0	0																				
B	*Dictyota dichotoma*	0	0	0.8	0																				
B	*Dictyota diemensis*	0	0	0	0																				
B	*Dilophus gunnianus*	0	0.5	0	0																				
B	*Distromium flabellatum* (iridescent)	0	0	0	0																				
B	*Durvillaea potatorum*	0	0	0	0																				
B	*Ecklonia radiata*	51	4.2	0.2	5.6																				
B	*Ectocarpus* spp.	0	0	0	0																				
B	Encrusting brown algae	3.4	1.6	0	4.8																				
B	Filamentous browns	0	4.8	0	1.4																				
B	*Filograna implexa*	0	0	0	0																				
B	*Halopteris paniculata*	2.1	0.8	2.6	8.5																				
B	*Halopteris* spp.	0	0	0	0																				
B	*Hincksia* spp.	0	0	0	0																				
B	*Homeostrichus olsenii*	1.4	1	0.6	1.2																				
B	*Leathesia difformis*	0	0	0.4	1.8																				
B	*Lessonia corrugata*	0	0	0	0																				
B	*Lobophora variegata*	0.4	0.8	0	1.6																				
B	*Lobospira bicuspidata*	0	0	0	0																				
B	*Macrocystis angustifolia*	0	0	0	0																				
B	*Macrocystis pyrifera*	0	0	0	0																				
B	*Myriodesma integrifolium*	0	0	0	0																				
B	*Pachydictyon paniculatum*	0	3.4	0	0																				
B	*Perithalia caudata*	0	4	0	1																				
B	*Phyllospora comosa*	16.4	19.6	0	0																				
B	*Sargassum decipiens*	0	0	0	0																				
B	*Sargassum fallax*	0	0	2.4	1.3																				
B	*Sargassum heteromorphum*	0	0	0	1.2																				
B	*Sargassum lacerifolium*	0	0	0	0																				
B	*Sargassum paradoxum*	0	0	0	0																				

Group	Species	0.1.10	0.1.5	0.3.5	0.4.10	0.7.10	0.8.5	0.9.10	10.1.5	10.2.5	10.3.5	10.4.5	10.5.5	10.6.5	10.7.5	10.8.5	11.1.5	11.10.5	11.11.5	11.12.5	11.2.5	11.3.5	11.4.5	11.7.5	11.8.5
Brown algae																									
B	*Sargassum sonderi*	0	0	0	0	0	0	0	17.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum* spp.	0	0	0	2.7	0	0	0	10.8	0	0	1.7	0	0	0	0.6	5.5	0	0.6	0.4	1.2	0	0	0	0	0
B	*Sargassum varians*	0	0	0	0	0	0	0	1.8	0	0	0	0	3.8	0	3.3	0	0.3	1.2	1.4	5.4	0	0	0	0	0
B	*Sargassum verruculosum*	0	0	0	0	0	0	0	2.2	1	0	0	0	0	0	0	0	0	1.4	4.3	0	0	11.8	0	0	0
B	*Sargassum vestitum*	0	0	2.8	0	0.3	1.2	0	2.4	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	0	0	0	0	33.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	3.1	29.6	10.1	9.9	15.4	7.5	17.4	12	0.8	7.2	0.2	0	0
B	*Xiphophora gladiata*	0	11.8	0.6	0	0	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Zonaria spiralis*	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Zonaria* spp.	0.2	0	1.6	1.2	0.5	0	0.6	2.4	0	0.3	5.8	0	2.7	1.1	1.9	0.2	2.9	0.2	4.2	0	0.3	1.3	0	0.2	
Green algae																										
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0.3	0.2	0.1	0.2	0	0.1	0	0	0	0	0
G	*Bryopsis* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0.2	0	3	0	0	0	0	0.8	0	0	0	0	6.4	9	15.4	6.9	4.4	1	17.5	2.5	0.3	0.2	0	0	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	12.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0.4	0	0.2	0	1	0	3.6	3.4	0	0	0	0	3.4	0	0.4	4.8	0.8	0	0	0	0	0.3	0	0	0
G	*Caulerpa flexilis var. muelleri*	0	0	0	0	0	0	0	0	0	0	0	0	2.9	0	4.6	0	0	0	0	0.6	0	0	0	0	0
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	13.1	4	0	0	0	2	0	0	0	1	0	0	0
G	*Caulerpa rhizomes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.8	0	0	0	0	0
G	*Chaetomorpha sp.*	0	0	1.6	0	0	0.4	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium australicum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium fragile*	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium harveyi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0.2	0.1	0	0	0	0	0	0	0	0
G	*Codium spongiosum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	Filamentous greens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	Green turf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Ulva* spp.	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Cladophora* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground cover																										
GRO	Bare rock (barrens)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	45	0	
GRO	Bare rock (non - barrens)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	1	0	0	0	0	0	0	30	1	
GRO	Cobble	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GRO	Gravel	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GRO	Pebbles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GRO	Sand	1.4	0	1.2	0	1.6	0	1.6	14	96	0	0	0	4.5	9.8	6	23.2	0	5	0	0	0.3	1.4	0	3.1	
GRO	Silt on reef	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Group	Species	11.9.5	13.1.10	13.1.5	13.10.10	13.11.10	13.2.5	13.3.10	13.4.10	13.5.10	13.6.10	13.7.10	13.8.10	13.9.10	14.1.5	14.10.5	14.11.5	14.12.5	14.2.5	14.3.5	14.4.5	14.5.5	14.6.5	14.7.5	14.8.5
Brown algae																									
B	*Sargassum sonderi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	14.6
B	*Sargassum* spp.	0	0	0	0.6	1.4	0.1	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0.9	0
B	*Sargassum varians*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum verruculosum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.6	0	0
B	*Sargassum vestitum*	0	0	0	0.4	0.8	0	0	0	0.6	0.6	0	0	0	1.5	4.7	64.4	11	3.5	1.6	0.5	0.1	2	3.6	4.7
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	8.5
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora gladiata*	0	0	1.3	0	0.5	0	0	2.4	0.8	1.2	0	0	0	1.3	0	0	0	0	0	1.5	0.2	0	0	0
B	*Zonaria spiralis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Zonaria* spp.	0	0.4	0	2.6	2.9	1.7	0	0.8	1.2	0	0	0.3	0	0.6	5	1.5	0.2	0.2	0.2	0.2	2.1	8	0.9	6.1
Green algae																									
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Bryopsis* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	15	0	0	0.8	0	4	0.4	1.8	1	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0	0	0	0	1.4	0	0	0	9.5	0	0	0.3	0	0	0	12.6	0	0	0	0.7	3.8	0	0	2.3
G	*Caulerpa flexilis var. muelleri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	10.1	0	0	0.3	0	0	11.6	2
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa rhizomes*	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3.2	3.9	0	0	0	0.1	0.8	1.3	1.4
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.1	4.8	0.3	0	0	0.5	0.3	1.8	0.4
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha sp.*	0	0	0	0.2	0	0	0	0	0	0	0	0	2.4	0	2	0.1	0	0	0.3	0	0.1	0	0	0
G	*Codium australicum*	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0
G	*Codium fragile*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.8	1.5	0	0	1.1	0.2	0.9	5.3	1.6
G	*Codium harveyi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium spongiosum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	Filamentous greens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0
G	Green turf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0
G	*Ulva* spp.	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0.2	0	0.2	2.5	2.8	0.8	3.5	0	0.3	0
G	*Cladophora* spp.	0	0	0	0	0	0	0	0	0	7.2	0	0	0	0	1.2	0	0	0	0	0	0	0	0.1	0
Ground cover																									
GRO	Bare rock (barrens)	0	0	0	0	5.6	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	6.1	0	0
GRO	Bare rock (non - barrens)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRO	Cobble	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0
GRO	Gravel	0.4	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRO	Pebbles	0	0	0	0	0	0	0	1	0	0	0	0	6	0	0	0	0	22.5	1.2	0	0	5.4	0	0
GRO	Sand	0	5	0	6	1	12.5	2.1	1.3	8.4	12.9	0	1.6	12.8	0.8	11	5.6	37.2	27.6	6.8	0	30.6	3.6	6.4	6.6
GRO	Silt on reef	0	0	0	0	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	14.9.5	17.1.5	17.10.5	17.11.5	17.12.5	17.13.5	17.14.5	17.15.5	17.2.5	17.3.10	17.3.5	17.4.10	17.4.5	17.5.5	17.6.5	17.7.10	17.7.5	17.8.10	17.8.5	17.9.5	18.1.5	18.10.5	18.11.5	18.12.5
Brown algae																									
B	*Sargassum sonderi*	11.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum* spp.	1.6	0.2	0	0	0.1	1.2	0	0	0	0	0	0	0	0	0	0	1.1	0	0	0	0	0	0	0.4
B	*Sargassum varians*	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	2.2	0	0	0	0	0	0	0	0	0
B	*Sargassum verruculosum*	0	0	0	0	0	0	0	0	0	0	0	1.5	5	0	0	0	0	1.1	2	0	0	0	2	0
B	*Sargassum vestitum*	5.1	1.4	0.4	0	3.1	3.4	0	4.6	0.5	0.6	0.2	0	0	14.2	1.7	0.3	0	0	0	0.8	4	3.2	5.6	4.5
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora gladiata*	0.4	5.9	16.6	3	7.3	4.6	3.2	1	1.4	3.2	11	0	0	1	0	0.2	13	0	0.4	7.4	0	2.3	1.4	0
B	*Zonaria spiralis*	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Zonaria* spp.	3.7	1.4	0	0	0	0	0	1.5	0.1	0.2	0	1.3	3.8	0.4	5.8	0	0.1	3.8	6.2	0.4	0.2	0.4	19.2	1
Green algae																									
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Bryopsis* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0.3	0	0.3
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0	0	0	0	0	0	0	0	0	0	0	0.8	0.4	0	0.6	0	1.2	0.2	0.6	0	0	0	0	11.3
G	*Caulerpa flexilis var. muelleri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.2	0	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	1	0.3	0	0	0	0	0	1	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa rhizomes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8
G	*Caulerpa scalpelliformis*	0.1	0	0	0	0	0	0	0	0	0	0	1.4	4.2	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	0	0	0	0	0.6	1.2	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	0	0	0	0	0	0	0	0	1.8	6.3	0	0	0.2	0	1.8	0	0	0	0	0	0.8
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0
G	*Chaetomorpha sp.*	0.8	0	0.7	0.3	2.2	1.4	0.1	0	0	0	0	0.1	1.8	0.6	0	0	0	0	0.6	0.8	0.5	0	0.2	0.4
G	*Codium australicum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	6.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium fragile*	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
G	*Codium harveyi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium spongiosum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	Filamentous greens	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	13.4	0	0	0	1.4	0
G	Green turf	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	1.2	0	0.3	0	0	7	0	0	0	0
G	*Ulva* spp.	0.2	0	0	0.2	0.1	0	0	0	0	0	0.2	0	0.7	3	0	0	0	0	0	0	0.2	0	0	0
G	*Cladophora* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0.2	0
Ground cover																									
GRO	Bare rock (barrens)	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	7.7	0	0	0	0	0	0
GRO	Bare rock (non - barrens)	0	0	5.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1.2	0	0	0
GRO	Cobble	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRO	Gravel	0	0	0	0	0.4	1.8	1.5	0	0	0	0	0	0	0	0	2.6	0	6.7	0	0	0	0	0	1.2
GRO	Pebbles	0	6	0	18.7	0	0	3	0	0	3.2	0	0	0	27.6	2.1	0	0	0	0	0	0	0	0	0
GRO	Sand	0	0	0	1.2	0.4	2.4	0	1.8	0	0.8	0	15	10	0	1.8	0	0	0	1.8	0	0	0	1.2	3
GRO	Silt on reef	0	0	0	0	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11

Group	Species	18.2.5	18.3.10	18.4.10	18.4.5	18.6.5	18.7.5	18.8.5	18.9.5	19.1.5	19.10.10	19.11.10	19.12.5	19.13.10	19.14.5	19.15.10	19.16.5	19.17.5	19.18.5	19.19.10	19.2.5	19.3.10	19.3.5	19.4.5	19.5.10
Brown algae																									
B	*Sargassum sonderi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0
B	*Sargassum varians*	0	0	0	0	0	0.5	0.6	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum verruculosum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0
B	*Sargassum vestitum*	8.2	1.1	0.6	0	0	0.4	1	6.2	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora gladiata*	0.8	0.5	5	4.7	0	0	0.2	4.7	11.8	0	0	0	0	0.2	0.4	1	0	5.4	0	1.8	0	0	0	0
B	*Zonaria spiralis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Zonaria* spp.	0	0	0	0.2	0	5.3	2.7	13.2	0.2	0	2.5	0	0	0.6	0.4	1.2	0	0.4	0.4	0	0.2	0	5.6	0.2
Green algae																									
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Bryopsis* sp.	0	0	0	0	0	0.7	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0.4	0	0.9	0	0	0	0	0	0	0	0	0	0	0	4.8	0	0	0	0	0	0	0	0.6	0
G	*Caulerpa flexilis var. muelleri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa rhizomes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha sp.*	0.2	0	0	0.7	0	0	0	0	0	0	0.1	0	0	0.2	0	0	0	1.8	0	0	0	0	0	0.7
G	*Codium australicum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	1.4	0	0	0.2	0
G	*Codium fragile*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium harveyi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium spongiosum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	Filamentous greens	0	0	0	0	0	0	0	0	0	0	0	0	4.6	0	0	0	0	0	0	0	0	0	0	0
G	Green turf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.3	1.2	0	0
G	*Ulva* spp.	3.6	0	0	0	0	0.3	2.3	7	0	0	0.3	0	0	0.6	0.2	0	0	0	0	0	0	0	0	0
G	*Cladophora* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground cover																									
GRO	Bare rock (barrens)	0	0	0	0	0	5	0	0	0	20	0	0	0	20	0	0	0	0	0	0	0	0	0	0
GRO	Bare rock (non - barrens)	0	0	0	0	0	0	0	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRO	Cobble	0	0	0	4.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRO	Gravel	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	8.9	3	0	0
GRO	Pebbles	0.8	0.9	0	2.6	0	0	4.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRO	Sand	0.8	2.9	3.1	3.6	0	3	20	1.4	0.6	4.1	7.6	0	0	0.6	0	0	0.5	1	21.1	0.6	6.9	0	0.6	0.7
GRO	Silt on reef	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	19.5.5	19.6.5	19.7.5	19.8.10	19.9.10	2.1.5	2.6.5	2.7.5	20.1.5	20.10.10	20.11.10	20.12.10	20.13.10	20.2.10	20.5.10	20.6.10	20.7.10	20.8.10	20.9.10	21.13.5	21.14.5	21.15.5	21.16.10	21.4.5
Brown algae																									
B	*Sargassum sonderi*	0	0	0	0	0	0	0	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.9	0
B	*Sargassum* spp.	0	0	0	0	0.4	0	0	2.2	0	0	0.2	0	0	0	0	0	0	0	0	16.6	0	1	0	0
B	*Sargassum varians*	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	3.8	0.5	0
B	*Sargassum verruculosum*	0	0	0	0.1	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	2.8	0	13.4	0	0
B	*Sargassum vestitum*	0	0	10	0	0	0	3	1.5	0.4	0	0	0	12.8	2.8	0	4.7	0.4	0	0	5.7	0	0	3	0
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	0	0	0	0	3.2	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	15.9	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0
B	*Xiphophora gladiata*	0	0	0	0	0.4	2.2	0	0	34.5	2.3	0	11.2	14.8	12.8	4.8	3.3	2.2	1.6	5.2	0	0	0	0	0
B	*Zonaria spiralis*	0	0	0	0	0.6	0	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Zonaria* spp.	0	0	0	0.1	2.7	4.8	5.1	6.3	0.5	0.2	1.7	0	0	0	1	0	0	0	0.3	3.6	0.4	5.2	2.8	1.2
Green algae																									
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0
G	*Bryopsis* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0	0	0	0.2	0	0	0	0	0.8	0	0	0	0	0.6	0	0	0	6.4	0	4.7	0	0	3.4	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0	0	0	0	0	0	0	0	0.1	0	0.4	0	0	0	0	0	0	4.1	0	1.7	0	0	3.8	0
G	*Caulerpa flexilis var. muelleri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa rhizomes*	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	23.6	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha sp.*	0.6	0	0.2	0	0.4	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium australicum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium fragile*	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0
G	*Codium harveyi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0.7	0	0	1	0
G	*Codium spongiosum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	1.8	0	0	0	0	0	0	0	0	0	0
G	Filamentous greens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	Green turf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0
G	*Ulva* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Cladophora* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground cover																									
GRO	Bare rock (barrens)	0	0	0	30.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRO	Bare rock (non - barrens)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRO	Cobble	0	0	0	0	0	0	0	0	0	2	14.2	0	0	0	0	0	0	0	0	0	0	0	0	0
GRO	Gravel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.6	3.7	0	0	0	0	0
GRO	Pebbles	0	0	0	0	0	0.8	2.3	3.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
GRO	Sand	0.8	0	3.5	0	1.2	2	2.2	1.8	2.7	0	0	9.6	0	8	3.4	0	0	7	0	1.5	0	4	1	0
GRO	Silt on reef	0	0	0	0	0	0	0	0	0	0	6.6	0	0	0	0	14.9	0	0	0	0	0	0	0	0

Group	Species	21.5.5	21.6.5	21.7.5	21.8.5	21.9.5	22.1.5	22.10.5	22.11.5	22.2.5	22.3.5	22.4.5	22.5.5	22.6.5	22.7.5	22.8.5	22.9.5	23.1.5	23.2.5	23.3.10	24.1.10	24.1.5	24.2.5	24.3.5	24.4.10
Brown algae																									
B	*Sargassum sonderi*	0	0	0	3	1.4	5.9	0	0	0	0	13.2	0	1.8	0.7	0	1.4	0	0	0	0	0	0	0	0
B	*Sargassum* spp.	0	0.3	0	0	4	1	0	0	0.1	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum varians*	0.8	1.2	0	0	2.4	0	0	0	0	1.8	0	0.2	0	0	0	1.8	0	0	0	0	0	0	0	0
B	*Sargassum verruculosum*	3.2	0	0	0	1	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum vestitum*	0	0	0.3	0.7	2.1	0	0	0	3.8	1.2	1	0	0	1.1	0.3	0.6	0	0	0	0	3.1	0	0	0
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	7.6	0	0	0	9.6	0	0	0	0	2.5	10.8	5	0	16.5	2.2	0	0	0	0	0	0	0	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	1.4	0.3	4.2	0	1.8	1	6.8	4.5	0	0.7	1.2	9.7	0	0	0	6.3	0	0	0	0	0	0	0	0
B	*Xiphophora gladiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.2	0
B	*Zonaria spiralis*	0	0	0	0	0	0	0	5.5	0	0	0	2.8	0.6	1.6	0	2	0	0	0	0	0	0	0	0
B	*Zonaria* spp.	1.6	0.5	0.6	2.4	5.1	10.2	9.2	1.3	3.1	6.7	8.4	4.4	10.2	3	0.2	9.8	0.8	2.2	1.1	0.2	0	0	0	0
Green algae																									
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Bryopsis* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	3.2	0	0	0	0	0
G	*Caulerpa brownii*	0.4	3.4	7.2	0.4	5.4	2.9	0	0.3	0	2.4	0	0.5	4.2	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	1.6	0.5	0	9	2.8	0.4	0	0.5	0	3.6	1.8	0.5	0	0.7	0	0	0	0	10.4	1.5	0	0	0	0
G	*Caulerpa flexilis var. muelleri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa geminata*	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	1.7	0	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	0	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa rhizomes*	0	0	0	0	0	0	0	0	0	0	0	0.2	1	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.3	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha sp.*	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0
G	*Codium australicum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0
G	*Codium fragile*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium harveyi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0.6	0.6	0	0.2	0.1	0.1	0.3	0	0.4	0.2	0	0	0.2	0	0	0	0	0	0	0	0	0	0
G	*Codium spongiosum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	Filamentous greens	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	Green turf	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Ulva* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Cladophora* spp.	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground cover																									
GRO	Bare rock (barrens)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRO	Bare rock (non - barrens)	0	0	0	0	0	0	0	7.4	0	3.2	0	2	0	0	0	0	0	0	0	3.8	0	0	0	0
GRO	Cobble	0	0	0	0	0	7.5	0	0	0	0	0	0	3.2	0	0	0	0	0	0	0	0	0	0	0
GRO	Gravel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0
GRO	Pebbles	3.6	0	0	10	0	3.8	4.4	0	10.7	0	2.8	8.6	2	0	0	11.1	7.3	2.2	0	5.4	0	0	0	0
GRO	Sand	2.6	0.5	1.5	2	0	2.9	3.2	18.7	6.5	6.6	4.3	5.7	10	10.8	96.6	19.9	26.8	0	13.2	4.3	2.9	0.9	0.3	1.5
GRO	Silt on reef	0	10	5	0	0	0.8	1.9	0	0	0	0	3.6	1.4	0	0	0	12.2	0.5	0	12.6	0	0	0	0

Group	Species	24.5.10	24.6.5	4.3.5	4.4.5	4.5.5	4.6.5	6.1.5	6.2.5	6.3.5	6.4.5	6.5.5	6.7.5	7.1.5	7.2.5	7.3.5	7.4.5	7.5.5	7.6.5	7.7.10	7.8.10	7.9.10	8.1.5	8.10.5	8.11.5
Brown algae																									
B	*Sargassum sonderi*	0	0	0	0	0	0	0	0	0	0	0	0	5.6	0.4	2	0	10.1	3.2	0	6.9	0	0	0	0
B	*Sargassum* spp.	0	0	0	0.8	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0.4	0	0.4
B	*Sargassum varians*	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0.6	0	0.4	0.1	10.5	0.6	0	0	0
B	*Sargassum verruculosum*	0	0	0	0	0	0	0.9	1	4.4	0	1	0	1	4.8	0	5.8	0	0	0	0	0	0	0	0
B	*Sargassum vestitum*	0	0	2	6.6	0	0	0	0	0	0	0	0	2.4	4	3.7	0	2	0.8	0	0.4	4.6	0.9	0.4	2.8
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	1.2	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	0	0	0	1.7	0	9.9	0	1.8	0	1.7	0	8.8	0	0.2	1.2	3.8	6.4	10.9	21	0	5.1
B	*Sporochnus* spp.	0	0	0	0	0	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0	0	0	0	0	0	0	0	0	2.9	1.5	0	5.4	0	0	0.9	2	0	0	4.1	6.5
B	*Xiphophora gladiata*	0	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Zonaria spiralis*	0	0	0	0	0	0	0	0	0	0	0	0	0	4.2	1.5	0	2.3	1.4	5.3	0	2.1	0	0.4	1.2
B	*Zonaria* spp.	0	1	0	1.1	0	5.2	4	9.8	12.3	8.5	2.6	0	3.4	1.2	2.4	4.5	5	2.8	1.4	4.3	1.6	0.6	0.4	1.2
Green algae																									
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0.2
G	*Bryopsis* sp.	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0	0.6	0	0	0	0	0	0	0	0	0	0	11.8	1.9	16.4	3.4	1.6	0.2	1.6	2.5	0.4	0	2.2	2
G	*Caulerpa cactoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0.6	4.2
G	*Caulerpa flexilis*	0	0	0	0.8	0	0	0	0	0	0	0	0	0.4	1.2	0	0.2	11.6	0	0.2	0.4	1.3	0	1	0.2
G	*Caulerpa flexilis var. muelleri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa geminata*	0	0	0	0.8	13.3	0	0.2	0.2	0	2.2	1.6	15.4	0.6	0	0	0	1.8	0	0	0	0	0	1.8	0.2
G	*Caulerpa hodgkinsoniae*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	1.2	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.2
G	*Caulerpa obscura*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.8	0.6
G	*Caulerpa rhizomes*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2
G	*Caulerpa scalpelliformis*	0	0	0	0	0	0	0	0	0.2	0	0	0	0.4	0.6	0	0.4	1	0.6	0.1	0	0	0	0	0
G	*Caulerpa simplisciuscula*	0	1.4	0	0	1.6	0	0	0	0	0	0.8	0	0	0	0	0	0.2	0	0	0	0	0	1.1	0
G	*Caulerpa trifaria*	0	0.2	0	0	10.6	0	0.3	0	0	0	10	2	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha sp.*	0	0.6	0	0.2	0	0	0	3.2	0.1	0	0.9	0	0	0	0	0	0	0	0	0	0	0.4	0	0
G	*Codium australicum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium fragile*	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0.5	0	0	0.8	0	0	0	0.4	0.4	0	0
G	*Codium harveyi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium pomoides*	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0.4	0.4	0.6	0.8	0	0.2	0.2	0	0	5.4	0.2
G	*Codium spongiosum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	Filamentous greens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	Green turf	0	0	0	0.4	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Ulva* spp.	0	0	0.9	13	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0
G	*Cladophora* spp.	0	0	0	0	0	0	0	0	0	0	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground cover																									
GRO	Bare rock (barrens)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRO	Bare rock (non - barrens)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRO	Cobble	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.6	0	0
GRO	Gravel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRO	Pebbles	2.9	3.8	0	0	8.6	0	0	0	0	0	0	0	0	1.9	0	11.4	2.8	0	0	0	0	0.6	0	0
GRO	Sand	0	10.7	15	4.4	17.5	14.2	3	0.4	38.8	0.8	0	3.3	0	21.3	0	21.2	8.5	0	6.7	3.2	1.7	4.6	14.9	24.1
GRO	Silt on reef	0	0	0	0	0	20.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.6	25.8

Group	Species	8.12.8/4	8.2.5	8.3.5	8.4.5	8.5.5	8.6.5	8.7.10	8.8.10	8.9.5	9.1.5	9.10.10	9.11.10	9.12.5	9.13.10	9.14.5	9.15.5	9.16.5	9.17.10	9.18.10	9.19.10	9.2.5	9.3.5	9.4.5	9.5.5
Brown algae																									
B	*Sargassum sonderi*	0	0	0	0	0	0	0	0	3.4	0.5	0.2	0	7.4	1.8	3.1	2.8	0	4.9	3.5	2.8	2.7	3	1	0
B	*Sargassum* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0.8	0	0
B	*Sargassum varians*	0	0.6	1.2	0	0	0	0	0	0.6	0	0	0	0.4	0.4	0	0	0	0	1.8	0	0	0	0	0
B	*Sargassum verruculosum*	0	0	0.8	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Sargassum vestitum*	0	0.6	5.9	0	0	0.4	1.1	0.6	0.4	1.8	1.4	0.8	1.8	0	0	0	0	2.6	2.6	4.2	1.2	0.8	2.4	2.8
B	*Scaberia agardhii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Seirococcus axillaris*	0	1.6	0	0	38.4	34	64.5	2.4	11.7	0	0	0	0	0	0	0	0	0.4	0	0.5	0	0.2	0	0
B	*Sporochnus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	1	0	0
B	*Undaria pinatifida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Xiphophora chondrophylla*	0	12.1	24.5	17.6	0.4	0.4	0	0	1.3	0	0	0	2.2	0	4.2	1.5	1.2	0	1	0	0	0	0	0
B	*Xiphophora gladiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	*Zonaria spiralis*	0	0	0	0	0	0	0	0	0	1.4	0	0	3.6	0	2.6	0	1.2	4.2	0.6	0	0.4	1.2	0	0
B	*Zonaria* spp.	0	5.6	9.2	0	1.2	0.6	0.2	1.4	1.8	5.5	1.7	1	9.2	1.2	7.4	5.8	9.4	7.3	8.7	3.7	1.3	5.5	2.7	3.9
Green algae																									
G	*Apjohnia laetevirens*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Bryopsis* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa brownii*	0	1.5	8.2	1.8	8.9	1.4	0.6	0.4	4.1	3.8	0	0	3.1	0	2.4	6.5	1.4	3.5	4.7	1.8	1.5	1.2	0	5.2
G	*Caulerpa cactoides*	0	0	0.8	5.4	0	0	0	0	0	0	0	0.4	0	0.4	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa flexilis*	0	0	1.8	0.2	0.6	0.6	0	0	0.4	6.7	0.6	0	2.2	2.4	0	1.6	2.6	5.2	1.7	0.6	3.6	0.8	0	1
G	*Caulerpa flexilis var. muelleri*	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa geminata*	0	0	1	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0.8	0	0	0	0	0
G	*Caulerpa hodgkinsoniae*	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0
G	*Caulerpa longifolia*	0	3.4	2.4	2.6	1.2	0.6	0.2	1.8	4.8	1	0	0	0.6	0	0	0.4	0	1.8	0	34.5	0	0	0	6.1
G	*Caulerpa obscura*	0	4.2	5.4	0.6	0	1	0	0.6	4.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa rhizomes*	0	0	0	0	1.2	0.6	0	0	1.2	0.8	0	0	0.4	0	0	0	0	0.4	0	5.8	0.8	0.2	0	0
G	*Caulerpa scalpelliformis*	0	0	0	2.2	0	0	0	0	0.2	0.8	0	0.2	0.2	0	0.4	0.2	0	0.8	0	0.4	0	0	0	0.6
G	*Caulerpa simplisciuscula*	0	1	1.8	1.8	0	0.8	0.8	0	0.5	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.2
G	*Caulerpa vesiculifera*	0	0	0	0	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Chaetomorpha sp.*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium australicum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium dimorphum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Codium fragile*	0	0	0.8	3.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0
G	*Codium harveyi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.6	0	0	0	0	0.6
G	*Codium pomoides*	0	0.8	1	1.5	0	0.4	0.2	0	0	0.2	0.4	0	0.4	0.6	0.5	0.6	0.3	0	0	0	0	0	0	0.2
G	*Codium spongiosum*	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0.4	0	0	0	0	0	0	0.6
G	*Codium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	Filamentous greens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0
G	Green turf	0	0	0	0	0	0	0	0	0	4.4	0	0	0	0	0	0	0	0	0	0	0	0	0	3.8
G	*Ulva* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	*Cladophora* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ground cover																									
GRO	Bare rock (barrens)	0	0	0	0	0	0	0	0	0	10.5	0	0.6	0	24	0	0	0	7.6	0	7.2	0	0	0	10
GRO	Bare rock (non - barrens)	0	0	0	0	0	0	0	0	0	0	0	0	1.2	1.8	1.6	1.6	0	1.2	0.8	4	9.6	0	0	6.8
GRO	Cobble	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.2	0	0	7.2	3.2	0	0.8	0	0	0
GRO	Gravel	0	8.6	0	0	0	1.4	0	0	0	8.6	0	0	0	0	0	0	0	0	0	0	0	0	6.2	0
GRO	Pebbles	0	11	0	0	0	18.9	1.4	0	10.2	15	3.6	15.4	0.9	3.4	4.4	13.2	0	0	4.6	0	0.6	0	1	0.4
GRO	Sand	0	4.9	13.6	20.9	0	1.6	7	17.5	4.8	3	37	21.1	9.4	12.9	7.9	14	7.3	4.5	8	3.5	2.4	5.6	1.5	16.4
GRO	Silt on reef	0	0	0	28.6	3.6	0	0	0	8.4	3	21.2	55.4	9.9	14.5	3.2	11.8	0	19.8	5.2	13.7	2.1	0	0	7.7

Group	Species	9.6.5	9.7.5	9.8.10	9.9.10
Brown algae					
B	*Sargassum sonderi*	0	0	1.4	1.4
B	*Sargassum* spp.	0	0	0	0
B	*Sargassum varians*	0	0	0	0.8
B	*Sargassum verruculosum*	0	0	0	0
B	*Sargassum vestitum*	2.3	0	0	0
B	*Scaberia agardhii*	0	0	0	0
B	*Seirococcus axillaris*	0	0	0	0
B	*Sporochnus* spp.	0	0	0	0
B	*Undaria pinatifida*	0	0	0	0
B	*Xiphophora chondrophylla*	0	0	0	0
B	*Xiphophora gladiata*	0	0	0	0
B	*Zonaria spiralis*	0	1	1.6	0
B	*Zonaria* spp.	3.3	2.9	4.8	3.9
Green algae					
G	*Apjohnia laetevirens*	0	0	0	0
G	*Bryopsis* sp.	0	0	0	0
G	*Caulerpa brownii*	0.2	5.6	0	1.2
G	*Caulerpa cactoides*	0	0	1	0
G	*Caulerpa flexilis*	3.4	0.2	0.8	3.3
G	*Caulerpa flexilis var. muelleri*	0	0	0	0
G	*Caulerpa geminata*	0	0	0	0.2
G	*Caulerpa hodgkinsoniae*	0	0	0	0
G	*Caulerpa longifolia*	0	0	0	0
G	*Caulerpa obscura*	0	0	0	0
G	*Caulerpa rhizomes*	0	0	0	1.6
G	*Caulerpa scalpelliformis*	0	0.2	0	0
G	*Caulerpa simplisciuscula*	0	0	0	0
G	*Caulerpa trifaria*	0	0	0	0
G	*Caulerpa vesiculifera*	0	0	0	0
G	*Chaetomorpha sp.*	0	0	0	0
G	*Codium australicum*	0	0	0	0
G	*Codium dimorphum*	0	0	0	0
G	*Codium fragile*	0	0	0	0
G	*Codium harveyi*	0	0	0	0
G	*Codium pomoides*	0	0.4	0.8	0.8
G	*Codium spongiosum*	0	0	0	0
G	*Codium* spp.	0	0	0	0
G	Filamentous greens	0	0.6	0	0
G	Green turf	0.6	0	0	0
G	*Ulva* spp.	0	0	0	0
G	*Cladophora* spp.	0	0	0	0
Ground cover					
GRO	Bare rock (barrens)	0	0	6.4	0
GRO	Bare rock (non - barrens)	0	6.6	4.2	4.4
GRO	Cobble	0	2.6	0	1.4
GRO	Gravel	0	0	0	0
GRO	Pebbles	1.2	7	20.6	2.7
GRO	Sand	0	18.3	31.9	5.2
GRO	Silt on reef	0	5.4	17.2	26.6

Group	Species	0.1.10	0.1.5	0.3.5	0.4.10	0.7.10	0.8.5	0.9.10	10.1.5	10.2.5	10.3.5	10.4.5	10.5.5	10.6.5	10.7.5	10.8.5	11.1.5	11.10.5	11.11.5	11.12.5	11.2.5	11.3.5	11.4.5	11.7.5	11.8.5
Invertebrates																									
I	*Amathia wilsoni*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ancorina* spp.	0.6	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Anemones	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Ascidians	1	0.4	0.2	0.2	0	0	1	5.5	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	barnacles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides leachi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides magnicoecum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides perspicuus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dentata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dissimilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Capnella* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Carteriospongia caliciformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Celleporaria* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Centrostephanus rodgersii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Clavelina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Corynactis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Culicia* spp.	0	0	0.2	0	0	0.8	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	2
I	*Cystodytes dellachiajei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Encrusting invertebrates*	0	0	0	0	0	0	0	0	0	1.3	6	0	0	0	0	0.4	0	1	0	1	1.5	0	1.2	1.5
I	*Erythropodium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.9	0	0.4	0	0
I	*Galeolaria caespitosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis laevigata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis rubra*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Hard bryozoans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0.4	0
I	*Heliocidaris erythrogramma*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Herdmania momus*	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.6	0
I	Hydroids	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Mopsella zimmeri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Orthoscuticella* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ostrea angasi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Other bryozoans	3	0.9	2	2	2.5	4.9	5.5	1	0	0.9	10	0	0.2	1.9	0.8	1.6	0.1	2.4	1.6	1.7	3.6	0.2	3.8	4.6
I	Other sponges	1.7	0.1	0.5	2.4	1.8	1.3	2.1	0.6	3.6	0.4	0	0	0.2	0.9	1.1	2.1	1	1.3	0.1	0.6	0.6	0.2	0	0.2
I	*Parazoanthus* spp.	0	0	0	3.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Plesiastraea versipora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura gibbosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura stolonifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ritterella pedunculata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Sponge (encrusting)	7.8	1.8	5.9	13	27.1	18.2	3.7	1.7	0.8	7	5	0	1.9	5.2	4.9	0	0.7	2.6	7.2	4.2	3	1.4	1	13.8
I	*Sycon* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Triphyllozoan* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red algae																									
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Amphiroa anceps*	0	0	1.6	0.6	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0.7	0.2	0	0	0.7	0	0
R	*Amphiroa* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Arthrocardia wardii*	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Asparagopsis armata*	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0
R	*Ballia callitricha*	4	1	5.2	0.8	2.2	2	3.5	0.4	0	0.5	0.2	0	0	0.8	0	2	0	2.9	0.5	0.8	0	0	0	0.2
R	*Callophycus laxus*	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	2.7	0	0	0	0	0	0	0	0	0
R	*Callophyllis lambertii*	0	0	0.5	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Callophyllis rangiferinus*	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	11.9.5	13.1.10	13.1.5	13.10.10	13.11.10	13.2.5	13.3.10	13.4.10	13.5.10	13.6.10	13.7.10	13.8.10	13.9.10	14.1.5	14.10.5	14.11.5	14.12.5	14.2.5	14.3.5	14.4.5	14.5.5	14.6.5	14.7.5	14.8.5
Invertebrates																									
I	*Amathia wilsoni*	0	0	0	0.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ancorina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	1.7	0
I	Anemones	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	0	0	0	0
I	Ascidians	0	0	0	2	0.9	0	0	0	1.2	4.4	0	6.4	1.2	0.2	0.4	0	0	0	5.5	0.1	4.4	0.2	0	0.2
I	barnacles	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides leachi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides magnicoecum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
I	*Botrylloides perspicuus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dentata*	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dissimilis*	0	0	0	1.2	0.6	0	0	0	0	0	0	0	0.4	0	0	0.4	0	0	0	0	0	0	0.1	0
I	*Capnella* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Carteriospongia caliciformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Celleporaria* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Centrostephanus rodgersii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Clavelina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Corynactis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Culicia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Cystodytes dellachiajei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0
I	*Encrusting invertebrates*	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Erythropodium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.2
I	*Galeolaria caespitosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis laevigata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis rubra*	0	0	0	0	0.8	0	0	0.6	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0
I	Hard bryozoans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Heliocidaris erythrogramma*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Herdmania momus*	0	0	1.3	0	0	0	0.6	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0
I	Hydroids	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0
I	*Mopsella zimmeri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.6	0	0	0	0	0	0	0	0	0
I	*Orthoscuticella* spp.	0	0	0	1.2	1.4	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0.2	0
I	*Ostrea angasi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Other bryozoans	0.1	1.2	0	5.2	3.1	0	14.8	1.9	5.6	2.8	0	4.6	6.6	2.4	1.6	0	0	0	10.9	4.2	3.6	3.8	0	2.7
I	Other sponges	0	5.5	0	2.2	1	2.7	4.5	1.5	4	4	0	2.8	0.2	0.4	0	1.5	1.7	0.2	7.9	2.8	1.7	0	1.3	0.4
I	*Parazoanthus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0
I	*Plesiastraea versipora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura gibbosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura stolonifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ritterella pedunculata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Sponge (encrusting)	1.2	41	7.5	20.4	10	18.2	45.7	18	20.1	16.2	0	28.3	14.1	4.2	4.6	3	3.7	0.3	9.3	6.9	22.5	8.8	1.6	13.5
I	*Sycon* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Triphyllozoan* spp.	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0.2	0	0	0	0
Red algae																									
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Amphiroa anceps*	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Amphiroa* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Arthrocardia wardii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Asparagopsis armata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	6.6	6.4	0	0.4	0	0	0.7	6.2	0
R	*Ballia callitricha*	0	3.5	0.2	4.2	6.2	0	2	4.9	3.1	4.6	0	5.3	1.9	2.1	0	0	0	0.1	1.4	0	0	0	0	0
R	*Callophycus laxus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Callophyllis lambertii*	0	1.6	0	0.5	0	0	1.7	0.4	1.2	0.6	0	0.4	0	0	0	0.7	0.3	0	2.6	0	0	0	0	0
R	*Callophyllis rangiferinus*	0	0	0	0.8	0.6	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	14.9.5	17.1.5	17.10.5	17.11.5	17.12.5	17.13.5	17.14.5	17.15.5	17.2.5	17.3.10	17.3.5	17.4.10	17.4.5	17.5.5	17.6.5	17.7.10	17.7.5	17.8.10	17.8.5	17.9.5	18.1.5	18.10.5	18.11.5	18.12.5
Invertebrates																									
I	*Amathia wilsoni*	0	0	0.2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ancorina* spp.	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Anemones	0	0.2	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0.8	0.9	11	0	0	0	0	0
I	Ascidians	0.1	0	0	0	0	3.6	0	0.6	0.7	0	0	0.6	0.8	0	0.8	1.7	0.2	2.3	0.6	0	0	0	1	2
I	barnacles	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides leachi*	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides magnicoecum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides perspicuus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dentata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dissimilis*	0	0	0	0	0.1	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6
I	*Capnella* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Carteriospongia caliciformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Celleporaria* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Centrostephanus rodgersii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0	0	0	0	0	0	0
I	*Clavelina* spp.	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Corynactis australis*	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Culicia* spp.	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Cystodytes dellachiajei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Encrusting invertebrates*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Erythropodium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	3.3	0	9	0	0	3.9	6.8	0	0	0	0	0
I	*Galeolaria caespitosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis laevigata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis rubra*	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0
I	Hard bryozoans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Heliocidaris erythrogramma*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Herdmania momus*	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Hydroids	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0
I	*Mopsella zimmeri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
I	*Orthoscuticella* spp.	0	0	0.4	0	0.3	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0.6
I	*Ostrea angasi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Other bryozoans	0.7	1.1	0.2	0	0.6	1.3	0	5.2	0.7	2.1	0.2	1.9	1.4	0.8	1.8	7.5	3.3	1.3	2.5	1.8	1.7	0	2.9	1.6
I	Other sponges	0	0.6	0.4	0	0	2.2	0	2.2	0.1	0.3	0	0.9	0	0.6	4.1	2.3	2.6	1	2.8	0.8	0.2	0.4	1.6	1.4
I	*Parazoanthus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Plesiastraea versipora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0
I	*Pyura gibbosa*	0	0	0	0.6	0.1	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
I	*Pyura stolonifera*	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ritterella pedunculata*	0	0	0	0	0	3.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Sponge (encrusting)	7.8	3.6	9.7	3.4	15.7	32.1	4.4	29.9	4.4	11.1	2.4	2.1	3.5	10.1	10.5	9.9	16	2.2	3.4	3.7	14.8	13.9	8.6	7.3
I	*Sycon* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Triphyllozoan* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0.1	0	0.2	0	0	0	0	0
Red algae																									
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Amphiroa anceps*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0
R	*Amphiroa* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Arthrocardia wardii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Asparagopsis armata*	0.1	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0.8	0	0	0	0	0
R	*Ballia callitricha*	0	2.5	2.8	0.9	1.2	0.5	0.8	0	0.3	12.3	2.7	1	0	4.8	3.3	1.8	0.9	0	0	3.5	4.4	1.2	2.8	1.8
R	*Callophycus laxus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Callophyllis lambertii*	0	0.6	0	0	0	8.7	0	1.5	1.4	0	0	3.5	2.3	6.3	0.4	0.3	1.8	0.4	0	0	0.8	1.3	0.2	2
R	*Callophyllis rangiferinus*	0.3	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.9	0	0	0	0	0	0	0	0

Group	Species	18.2.5	18.3.10	18.4.10	18.4.5	18.6.5	18.7.5	18.8.5	18.9.5	19.1.5	19.10.10	19.11.10	19.12.5	19.13.10	19.14.5	19.15.10	19.16.5	19.17.5	19.18.5	19.19.10	19.2.5	19.3.10	19.3.5	19.4.5	19.5.10
Invertebrates																									
I	*Amathia wilsoni*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ancorina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Anemones	0	5.5	0	0	0	0	0.5	0	0.2	0	0.8	0	0.8	0	0	0	0	0	0	1.4	0	0	0	0
I	Ascidians	0.6	2.6	0.6	0.2	0	0.2	9.3	1	0.8	1	0.5	11.6	0	0	0	0.6	0.8	0	0.2	9.8	0	0.6	0.6	0
I	barnacles	0	0	0	0	0	1.4	0	0	2.2	0	0.1	0	5.6	2.6	10.8	0	0.3	0	0	0	5.6	24.8	1.2	0
I	*Botrylloides leachi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides magnicoecum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides perspicuus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dentata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dissimilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Capnella* spp.	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Carteriospongia caliciformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Celleporaria* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Centrostephanus rodgersii*	0	0	0	0	0	0	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0	3.1	0	0	0
I	*Clavelina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Corynactis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Culicia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Cystodytes dellachiajei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Encrusting invertebrates*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Erythropodium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Galeolaria caespitosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0
I	*Haliotis laevigata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis rubra*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	0	0
I	Hard bryozoans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Heliocidaris erythrogramma*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Herdmania momus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Hydroids	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Mopsella zimmeri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Orthoscuticella* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ostrea angasi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Other bryozoans	4.4	3.7	0.4	0.2	0	0.2	2.3	0	0.6	2.2	1.4	3	5.6	0.4	4.3	0.7	1.2	0.6	0.6	2.5	2.1	1	0	3.4
I	Other sponges	1.2	2.2	1.2	1.3	0	1	0	0	0.6	1.9	0.7	1.4	0.3	1.1	0.4	3.7	2.9	1.7	3	1.5	0.6	3.6	3	1.3
I	*Parazoanthus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	1.2	0	0
I	*Plesiastraea versipora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura gibbosa*	0.4	0	0	0	0	0.1	1.1	0.2	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0
I	*Pyura stolonifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ritterella pedunculata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Sponge (encrusting)	15.4	28.4	3.1	4.2	0	0.9	20.9	7.4	7.3	5.6	11	16.3	12.8	3	3.5	11.4	18.3	5.9	7.6	18.4	4.3	7.5	8.9	14.8
I	*Sycon* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Triphyllozoan* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red algae																									
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Amphiroa anceps*	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0.4	0	0	1.4	0	0	0	0	0	0
R	*Amphiroa* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Arthrocardia wardii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Asparagopsis armata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ballia callitricha*	2.2	1.2	0.6	1.8	0	0	1	0.8	0	0.5	0.5	1	0.7	0.8	7.2	0.4	0.2	2	0.2	0.7	0.1	1.2	0	2.7
R	*Callophycus laxus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Callophyllis lambertii*	13.3	0	6.3	5.2	0	0	5.1	6.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6
R	*Callophyllis rangiferinus*	0	0	0	4.6	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	19.5.5	19.6.5	19.7.5	19.8.10	19.9.10	2.1.5	2.6.5	2.7.5	20.1.5	20.10.10	20.11.10	20.12.10	20.13.10	20.2.10	20.5.10	20.6.10	20.7.10	20.8.10	20.9.10	21.13.5	21.14.5	21.15.5	21.16.10	21.4.5
Invertebrates																									
I	*Amathia wilsoni*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ancorina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Anemones	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3
I	Ascidians	3.8	0.6	7.5	0	0	1.3	3.6	1.8	0	0	0	0	0	0	0.7	0.1	0	0	0	0	1	2.4	1.1	2.1
I	barnacles	0	0.3	0	2.4	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides leachi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides magnicoecum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides perspicuus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dentata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dissimilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Capnella* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Carteriospongia caliciformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0
I	*Celleporaria* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Centrostephanus rodgersii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Clavelina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Corynactis australis*	0	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Culicia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0	0	0	0	0	0	0	0
I	*Cystodytes dellachiajei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Encrusting invertebrates*	0	0	0	0	0	0	0	0	0	2	2.1	0	0	0	0	0	0	0	3	0	0	0	0	0
I	*Erythropodium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0
I	*Galeolaria caespitosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis laevigata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis rubra*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0
I	Hard bryozoans	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Heliocidaris erythrogramma*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Herdmania momus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6	0
I	Hydroids	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0
I	*Mopsella zimmeri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6
I	Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.3	0	0
I	*Orthoscuticella* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ostrea angasi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Other bryozoans	0.4	0	1.6	5.3	2.6	1.7	0.2	1.2	1.7	1	0	0.7	1.5	0.9	2.6	0	0.2	0	1	0.7	0.1	1.2	0.4	3.7
I	Other sponges	0	0.1	2.7	0.1	2.4	0	0	0.4	0	0.8	0.4	0	0	0	0	0.2	0.4	0.4	0.4	0.8	1.3	4	1.6	1.2
I	*Parazoanthus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Plesiastraea versipora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura gibbosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	1.8
I	*Pyura stolonifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ritterella pedunculata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Sponge (encrusting)	17.6	15.3	8.6	2.9	4.9	1.6	1	8.7	11.4	5.7	5.6	18.1	14.4	27	7.2	6.8	7.5	2.7	3.9	6.4	20.4	6.1	16.3	17.1
I	*Sycon* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Triphyllozoan* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red algae																									
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Amphiroa anceps*	0	0	0	0	1.4	0	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0.2	2.2	0
R	*Amphiroa* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Arthrocardia wardii*	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Asparagopsis armata*	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0.6	0
R	*Ballia callitricha*	1	0	0.8	0.5	2.8	1.7	0	0	2.2	0.6	2.2	1.1	4.3	1.3	6.1	1.4	3.8	2	4.2	0	0.5	0	1.2	0.4
R	*Callophycus laxus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Callophyllis lambertii*	0	0	0	0	0	0	0	0	0	0	0.1	6.5	0	0.7	4.7	2	0	0.9	0	0	0	0	0.4	0
R	*Callophyllis rangiferinus*	0	0	0	0	0	0	0	0	0	0	0	0	2.3	0	0	0	0	0	0	0	0	0	0	0

Group	Species	21.5.5	21.6.5	21.7.5	21.8.5	21.9.5	22.1.5	22.10.5	22.11.5	22.2.5	22.3.5	22.4.5	22.5.5	22.6.5	22.7.5	22.8.5	22.9.5	23.1.5	23.2.5	23.3.10	24.1.10	24.1.5	24.2.5	24.3.5	24.4.10
Invertebrates																									
I	*Amathia wilsoni*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ancorina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Anemones	0	0	1.2	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0.8	0	0	0	0.2	0	0	0.2
I	Ascidians	0	0	0.8	1.2	0	0.6	0	0.6	0	0	0.8	0	0.2	1.4	0.1	1.8	0	0	5.5	1.2	0	0.1	0.1	0
I	barnacles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides leachi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides magnicoecum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides perspicuus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dentata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dissimilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Capnella* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	1.4
I	*Carteriospongia caliciformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0
I	*Celleporaria* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Centrostephanus rodgersii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Clavelina* spp.	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Corynactis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Culicia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Cystodytes dellachiajei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Encrusting invertebrates*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Erythropodium* spp.	0	0	0	0	0	0	0	0	0	4	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0
I	*Galeolaria caespitosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis laevigata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis rubra*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0
I	Hard bryozoans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Heliocidaris erythrogramma*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Herdmania momus*	0.6	0.8	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Hydroids	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Mopsella zimmeri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Orthoscuticella* spp.	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ostrea angasi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Other bryozoans	4.4	0	0	0.4	0.2	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	2.9	1.8	6.6	1.1	14.4
I	Other sponges	0.6	0	0	0.6	0	0.6	0	0.5	0.2	1.2	1.6	0.2	0	0.4	0.5	0.6	0	0.2	1.3	3.7	0.2	0.3	0.8	6.1
I	*Parazoanthus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
I	*Plesiastraea versipora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura australis*	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura gibbosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura stolonifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ritterella pedunculata*	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Sponge (encrusting)	6.3	0.6	4.3	9	0	0.2	0.7	3.9	1.1	2	2	0	0.8	3.1	0	1.2	1.2	4.2	7	8.3	4.5	12.8	2.2	8.1
I	*Sycon* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0
I	*Triphyllozoan* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red algae																									
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Amphiroa anceps*	3.2	2.2	1.5	11.8	0	0	1.1	0	0	0	2.8	1.2	0.8	0	0	0.4	0	0	0	0	5.5	0	0	0
R	*Amphiroa* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4	0	0	0	0
R	*Arthrocardia wardii*	0	0	0	0	0	0	0	0	0.4	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0	0	0	0
R	*Asparagopsis armata*	0	3.7	1.8	0	2.8	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0
R	*Ballia callitricha*	0	0	0	0.4	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8	3.7	0.6	2.8	1.2
R	*Callophycus laxus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Callophyllis lambertii*	0	4.2	4.1	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Callophyllis rangiferinus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	24.5.10	24.6.5	4.3.5	4.4.5	4.5.5	4.6.5	6.1.5	6.2.5	6.3.5	6.4.5	6.5.5	6.7.5	7.1.5	7.2.5	7.3.5	7.4.5	7.5.5	7.6.5	7.7.10	7.8.10	7.9.10	8.1.5	8.10.5	8.11.5
Invertebrates																									
I	*Amathia wilsoni*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ancorina* spp.	0	0	0	0	0	0	0.9	0.2	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Anemones	0	0	0	0	0	1.2	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0
I	Ascidians	0	0	1.5	0.4	0	0.4	0.2	0	1.2	8.9	0	0.9	0.6	0.2	2.8	0	1.2	1.6	4.3	1.2	5.5	0.8	0	0.2
I	barnacles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides leachi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides magnicoecum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0
I	*Botrylloides perspicuus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0
I	*Bugula dentata*	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dissimilis*	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Capnella* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Carteriospongia caliciformis*	0	0	0	0	6.7	0	0	0	0	0	0	16.4	0	0	0	0	0	0	0	0	0	0	0	0
I	*Celleporaria* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.4	0	0
I	*Centrostephanus rodgersii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Clavelina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Corynactis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Culicia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Cystodytes dellachiajei*	0	0	0	0	0	0	0	0	1.3	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Encrusting invertebrates*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Erythropodium* spp.	0	0	0	0	0	0	0	0	0	0	3.6	0.2	0	0	0	4.8	0	0	0	0	0	0	0	0
I	*Galeolaria caespitosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis laevigata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis rubra*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Hard bryozoans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Heliocidaris erythrogramma*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Herdmania momus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Hydroids	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Mopsella zimmeri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Mussel spp.	0	0	0	0	0	0	0	0	0	7.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Orthoscuticella* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.2	0	0
I	*Ostrea angasi*	0	0	0	0	0	0	0	0	0	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Other bryozoans	0.1	0	4.4	1.4	1.7	0.2	1.6	0.6	1.5	6.5	3.1	0.3	0.4	0.4	1.1	2.6	1.5	1	1.3	1.4	4.8	2.5	0	0
I	Other sponges	0	0	1.9	1.6	6.1	2.2	0	0	0.6	0.4	1.1	2.4	0	0.3	0.3	1	3	0	0.1	0.2	1.6	0.8	0	0
I	*Parazoanthus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Plesiastraea versipora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
I	*Pyura australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura gibbosa*	0	0	8.8	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura stolonifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ritterella pedunculata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Sponge (encrusting)	0	0.4	26.4	6.9	1.4	9.2	1.4	1.6	1.2	18.8	1.2	2.4	5.7	0	15	1.1	2.4	4.6	1.6	2.3	4.4	17.8	1.8	0.6
I	*Sycon* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0
I	*Triphyllozoan* spp.	0	0	0	0	0	0	0.3	0	0	0	0.6	0.6	0	0	0	0	0	0	0	0.2	0	0	0	0
Red algae																									
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Amphiroa anceps*	0	3.8	0	0	0	0	0	0	0	0	0	0	1.2	0	1.2	0.4	0	6.4	0	0	0	0	0.4	5.2
R	*Amphiroa* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Arthrocardia wardii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6
R	*Asparagopsis armata*	0	0	0	0	0	0	0	0.6	0	0	10.7	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ballia callitricha*	0.7	0.2	2	0	0	0	0.8	0	0	0.2	0	0	0.9	0	0	0	0	0.2	0	0.6	0	0.4	0	0.8
R	*Callophycus laxus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Callophyllis lambertii*	0	0	3.4	1.9	0	0	0.8	0	1	1.8	3.5	0	0.3	0	0	0	0	0	0	0.4	0	0.6	0	0
R	*Callophyllis rangiferinus*	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	8.12.8/4	8.2.5	8.3.5	8.4.5	8.5.5	8.6.5	8.7.10	8.8.10	8.9.5	9.1.5	9.10.10	9.11.10	9.12.5	9.13.10	9.14.5	9.15.5	9.16.5	9.17.10	9.18.10	9.19.10	9.2.5	9.3.5	9.4.5	9.5.5
Invertebrates																									
I	*Amathia wilsoni*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ancorina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Anemones	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	1.8
I	Ascidians	0	0.6	0.6	0.6	0	0	4.5	4.4	1.5	0	0.8	2	1.6	0.5	0	0	0.4	0.4	0	0.4	0	0.4	1	0
I	barnacles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides leachi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides magnicoecum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Botrylloides perspicuus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dentata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Bugula dissimilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0
I	*Capnella* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0
I	*Carteriospongia caliciformis*	0	0	0	0	0	0	0	0	0	0	1	0	0	4.5	0	0	0	0	0	0	0	0	0	0
I	*Celleporaria* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0
I	*Centrostephanus rodgersii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Clavelina* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Corynactis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Culicia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0.2
I	*Cystodytes dellachiajei*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Encrusting invertebrates*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Erythropodium* spp.	0	0	0	0	0	0	0	0	0	0	0.7	4	0	1.2	0	1	6	0	3	0	0	0	0	0
I	*Galeolaria caespitosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis laevigata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Haliotis rubra*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Hard bryozoans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Heliocidaris erythrogramma*	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0.8	0	0	0	1	0	0	0	0	0	2.6
I	*Herdmania momus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Hydroids	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0
I	*Mopsella zimmeri*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Mussel spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.8	15.6	21.7	7.2
I	*Orthoscuticella* spp.	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	1.2	0.8	0.2	0.6	1.2	0	0
I	*Ostrea angasi*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	Other bryozoans	0	0	1.8	0	0	0	4.4	2.2	0.8	3.6	4.8	1.6	0.2	3	0	0	0.8	0.6	4	5	1.6	0.6	0.6	0.4
I	Other sponges	0	0.4	0	1	0.4	0	2.5	2.2	0.2	0	1.5	2.4	0.7	4.7	0.4	0.8	1	2	1.3	1.3	0.6	0.6	2.4	0.4
I	*Parazoanthus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Plesiastraea versipora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura australis*	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura gibbosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Pyura stolonifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I	*Ritterella pedunculata*	0	0	0	0	0	0	0.2	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0
I	Sponge (encrusting)	0	4.5	1	3.8	2	1.1	20.4	15.1	3.6	1.8	0.2	1	4.7	2.9	0.4	0.4	1.9	2.2	1.7	3	5.6	1.1	9.8	3.5
I	*Sycon* sp.	0	0	0	0	0.2	0.4	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0.6	0	0	0	0
I	*Triphyllozoan* spp.	0	0	0	0	0	0	0	0	0	0.2	0	0	0	1	0	0	0	0.2	0.6	0.6	0.2	0	0	0.2
Red algae																									
R	*Acrosorium ciliolatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Amphiroa anceps*	0	0	0	0	1.2	1.2	0	0	4.4	0	0	0	0	0	2.8	0	0	0.4	0	0	2.4	5.6	13.8	0.8
R	*Amphiroa* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Arthrocardia wardii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8	0
R	*Asparagopsis armata*	0	1.6	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ballia callitricha*	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Callophycus laxus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Callophyllis lambertii*	0	1	0	0.2	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Callophyllis rangiferinus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	9.6.5	9.7.5	9.8.10	9.9.10
Invertebrates					
I	*Amathia wilsoni*	1	0	0	0
I	*Ancorina* spp.	0	0	0	0
I	Anemones	0	0	0	0
I	Ascidians	1.8	1	2	2
I	barnacles	0	0	0	0
I	*Botrylloides leachi*	0	0	0	0
I	*Botrylloides magnicoecum*	0	0	0	0
I	*Botrylloides perspicuus*	3.8	0	0	0
I	*Bugula dentata*	0	0	0	0
I	*Bugula dissimilis*	0	0	0	0
I	*Capnella* spp.	0	0	0	0
I	*Carteriospongia caliciformis*	0	0	3.7	0
I	*Celleporaria* spp.	0	0	0	0
I	*Centrostephanus rodgersii*	0	0	0	0
I	*Clavelina* spp.	0	0	0	0
I	*Corynactis australis*	0	0	0	0
I	*Culicia* spp.	0	0	0	0
I	*Cystodytes dellachiajei*	0	0	0	0
I	*Encrusting invertebrates*	0	0	0	0
I	*Erythropodium* spp.	0	0	2.2	3.6
I	*Galeolaria caespitosa*	0	0	0	0
I	*Haliotis laevigata*	0	0.8	0	0
I	*Haliotis rubra*	0	0	0	0
I	Hard bryozoans	0	0	0	0
I	*Heliocidaris erythrogramma*	0	0	0	0
I	*Herdmania momus*	1	0	0	0
I	Hydroids	0.8	0	0	0
I	*Mopsella zimmeri*	0	0	0	0
I	Mussel spp.	0	6	0	0
I	*Orthoscuticella* spp.	1	0	0	0.6
I	*Ostrea angasi*	0	0	0	0
I	Other bryozoans	1.6	0	1.6	0.8
I	Other sponges	3.4	0.6	2.8	2.4
I	*Parazoanthus* spp.	0	0	0	0
I	*Plesiastraea versipora*	0	0	0	0
I	*Pyura australis*	0	0	0	0
I	*Pyura gibbosa*	0	0	0	0
I	*Pyura stolonifera*	0	0	0	0
I	*Ritterella pedunculata*	0	0	0	0
I	Sponge (encrusting)	7	2.6	4	2.1
I	*Sycon* sp.	0	0	0	0
I	*Triphyllozoan* spp.	0	0	0	0
Red algae					
R	*Acrosorium ciliolatum*	0	0	0	0
R	*Amphiroa anceps*	2.4	3	0	0
R	*Amphiroa* sp.	0	0	0	0
R	*Arthrocardia wardii*	0.6	0	0	0
R	*Asparagopsis armata*	0	0	0	0
R	*Ballia callitricha*	1.4	0	0	0
R	*Callophycus laxus*	0	0	0	0
R	*Callophyllis lambertii*	0	0	0	0
R	*Callophyllis rangiferinus*	0	0	0	0

Group	Species	0.1.10	0.1.5	0.3.5	0.4.10	0.7.10	0.8.5	0.9.10	10.1.5	10.2.5	10.3.5	10.4.5	10.5.5	10.6.5	10.7.5	10.8.5	11.1.5	11.10.5	11.11.5	11.12.5	11.2.5	11.3.5	11.4.5	11.7.5	11.8.5
Red algae cont…																									
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Carpopeltis phyllophora*	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0.4	0	0.8	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Cheilosporum sagittatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Corallina officinalis*	0.8	0	6.8	0	0	0	0	0	0	0	0	0	0	0	0	4.3	1.3	0	0	0	0	0	0	0
R	Corallines unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Craspedocarpus ramentaceus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Crustose coralline algae	28.3	35.6	30.2	26.4	44.6	41.9	27.9	22.5	7.2	61.6	55.2	0	39.8	40	47.1	0	40.2	34.9	26.5	51.8	62	53.3	54.6	52.5
R	*Curdiea angustata*	0	0	0	1.2	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea hypneoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea pulchra*	0.8	0	0.2	10.4	0	0	7.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Dictymenia angusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Dictymenia harveyana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Echinothamnion hystrix*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Erythremenia minuta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Erythroclonium* spp.	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0
R	Filamentous red algae	0	0	0.4	0	0	2.8	0	6.4	4.6	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0
R	Foliose reds	0	0	0	0	0	0	0	0	0	0	0	0	3.5	0	0	39.5	0	0	0	0	0	0	0	0
R	GCA - Furry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	GCA - Spiky	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium asperum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0.5	0	0.6	2.1
R	*Gelidium australe*	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium glandulaefolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0
R	*Gelidium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelinaria ulvoidea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina brachiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina muelleriana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gloiosaccion brownii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Grateloupia filicina*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Griffithsia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Haliptilon roseum*	7.8	0	15.4	6.2	2.2	3.4	2	0	0	0	3.9	0	0	3.1	0	1.5	0.6	1.7	0	0	0	0	0	0
R	*Haloplegma preissii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Halopteris like red algae	0	0.7	0	0	0	0.4	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hildenbrandia spp.*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hymenena affinis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hypnea ramentacea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania pulchella*	1.2	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.2	0	0	0	0	0	0	0
R	*Jania verrucosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jeannerettia lobata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia cribrosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia clavata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia elata*	0.3	0.4	0.2	0.4	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia filiformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia majuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	1.2	0	0	0	0	0	0	0	0
R	*Lenormandia marginata*	2.2	0	0	0.6	1.4	0.4	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	11.9.5	13.1.10	13.1.5	13.10.10	13.11.10	13.2.5	13.3.10	13.4.10	13.5.10	13.6.10	13.7.10	13.8.10	13.9.10	14.1.5	14.10.5	14.11.5	14.12.5	14.2.5	14.3.5	14.4.5	14.5.5	14.6.5	14.7.5	14.8.5
Red algae cont…																									
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Carpopeltis phyllophora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.5	2.6	0	0	0	0	0	4.3	0
R	*Champia viridis*	0	0	0	1.2	0	0	0	0.6	1.4	0	0	0	0	0.3	0	0	0	0	2.4	4.5	0.1	0.2	0	0
R	*Cheilosporum sagittatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Corallina officinalis*	0	4.3	0	0.2	9.8	0	0	0.8	1.4	0.2	0	0	0	3.3	0	0	0	5.7	0	1.5	0	0	0	0
R	Corallines unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0
R	*Craspedocarpus ramentaceus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Crustose coralline algae	90.1	32.1	73.4	33.7	38.9	47.4	29	44.9	23.1	27.5	0	27.8	37.5	42	38.9	1.6	2.3	10.6	20.4	12.7	10.6	18.9	1.1	12.8
R	*Curdiea angustata*	0	0	0	0	0	0	0	0	5.2	0	0	0	0	0.3	0	0	0	0	0	1	0	0	0	0
R	*Delisea hypneoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea pulchra*	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0.3	0.2	0	0	0	0
R	*Dictymenia angusta*	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0
R	*Dictymenia harveyana*	0	0	0	0	0	0	0	0	0	0	0	0	7.5	0	0.6	1.6	0.2	0	0	0	0	0	2.2	0.3
R	*Echinothamnion hystrix*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8	0
R	*Erythremenia minuta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Erythroclonium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0	0.6	0.5	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	4.2	0	0	0	0
R	Filamentous red algae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0
R	Foliose reds	0	0.3	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	GCA - Furry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	GCA - Spiky	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium asperum*	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium australe*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0.2	0.1	0	0	0	0
R	*Gelidium glandulaefolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelinaria ulvoidea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6
R	*Gigartina brachiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina muelleriana*	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gloiosaccion brownii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Grateloupia filicina*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.8	0	0	0	0
R	*Griffithsia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.1	0	0	0	0	0	0	1.8	0
R	*Haliptilon roseum*	0	6.4	0	7	3.6	1.2	0	7	4.4	0.2	0	0	0	1.9	0	0.6	0	0.1	0	2.2	0	0	0.9	0
R	*Haloplegma preissii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Halopteris like red algae	0	0	0	0.2	1.2	0	0	1.4	0	0	0	0.2	0	0.2	0	0	0	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	1	0.4	0	0	0.5	0.3
R	*Hildenbrandia spp.*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hymenena affinis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0.3	0
R	*Hypnea ramentacea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania pulchella*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania* spp.	0	2.6	0	3.6	3.4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania verrucosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.1	0	0	0	0
R	*Jeannerettia lobata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia cribrosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia clavata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia elata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0
R	*Laurencia filiformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia majuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia marginata*	0	1	0	2	0	0	1.1	0	0	1.7	0	2.6	1	0	0	0.4	0	0	0	0.8	0.2	0	0	0.4

Group	Species	14.9.5	17.1.5	17.10.5	17.11.5	17.12.5	17.13.5	17.14.5	17.15.5	17.2.5	17.3.10	17.3.5	17.4.10	17.4.5	17.5.5	17.6.5	17.7.10	17.7.5	17.8.10	17.8.5	17.9.5	18.1.5	18.10.5	18.11.5	18.12.5
Red algae cont…																									
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Carpopeltis phyllophora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0
R	*Champia viridis*	0	0	0	0	0	0.4	0	0	0	0	0	0	2.8	0	0	0	0	0	0.4	0	0	0	0	0
R	*Cheilosporum sagittatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Corallina officinalis*	0.1	0	0	0	0	0	0.1	0	0	0.6	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0
R	Corallines unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Craspedocarpus ramentaceus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0
R	Crustose coralline algae	39.5	44.6	45.6	50.3	36.6	38.2	62.4	39.9	27.3	30.5	51.2	14.1	17.2	13.6	24.2	13.4	36.1	15.7	28	48.2	53.4	49.6	53.9	32.7
R	*Curdiea angustata*	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.4	5.8	0	0	0.2
R	*Delisea hypneoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea pulchra*	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Dictymenia angusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Dictymenia harveyana*	0	0	0	0	0	0.2	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.2
R	*Echinothamnion hystrix*	0	0	0	0	0	0	0	0	0	0	0	0	1.7	5.4	0	0	0	0	0	0	0	0	0	0
R	*Erythremenia minuta*	0	0	0	0	0.1	0.6	0	0.2	0	0	0	0	0	0.4	0	0	0	0	0	0	0.6	0.2	0	0
R	*Erythroclonium* spp.	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0	0	0	1	0	0	0	0	0	0	0.4	2.4	0	0	0	0	0	0	0	0	0	0
R	Filamentous red algae	0	0	0	0	0	0	0	0	0	0	0.3	0	1.8	6.4	0	0	0	0	1	0	0	0	1.6	0
R	Foliose reds	0	0	0	0	0.1	0	0.4	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4
R	GCA - Furry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	GCA - Spiky	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium asperum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium australe*	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium glandulaefolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0
R	*Gelinaria ulvoidea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina brachiata*	0	0	0	0	0	0	0	0	0	0	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina muelleriana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina* sp.	0	0	0	0	0	2.6	0	0	0	0	0	0	0	3.8	0	0	0	0	0	0	0	0	0	0
R	*Gloiosaccion brownii*	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0
R	*Grateloupia filicina*	0	0	0	0	0	0	0	0	0	3.2	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0
R	*Griffithsia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Haliptilon roseum*	1	4.2	0.7	0	0	0	0	0	0	0	0	0	0	1.6	0	0	6.2	0	0	7.4	0.8	0	0	0
R	*Haloplegma preissii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Halopteris like red algae	0	1.6	0.4	0.3	0	0.4	0	0	0	2.4	1.7	0	0	0	0	0	0	0	0	0.6	0.4	0.7	2.7	0
R	*Hemineura frondosa*	0.1	0.2	0	0	0	0.9	0	0.2	0	0.2	0.3	0	0	1.3	0.4	0.3	0.3	0	1.2	0.6	0	4.2	0	1
R	*Hildenbrandia spp.*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hymenena affinis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hypnea ramentacea*	0	0	0	0.3	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6
R	*Jania pulchella*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania* spp.	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania verrucosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jeannerettia lobata*	0	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0.5	0.7	0	0	0	0	1.2	0.2	0
R	*Kallymenia cribrosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia clavata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia elata*	0	0	0	0	0	0.2	0	0	0	0	0	0	0	2	0	0	0	0	0	0.8	0	0	0	0
R	*Laurencia filiformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia majuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia marginata*	0	0	0.2	0	0	1	0	0.2	0.9	1.8	0	1.5	1.1	3.8	1	2	0	0.6	1	1.5	0.2	1.2	0.3	1

Group	Species	18.2.5	18.3.10	18.4.10	18.4.5	18.6.5	18.7.5	18.8.5	18.9.5	19.1.5	19.10.10	19.11.10	19.12.5	19.13.10	19.14.5	19.15.10	19.16.5	19.17.5	19.18.5	19.19.10	19.2.5	19.3.10	19.3.5	19.4.5	19.5.10
Red algae cont…																									
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Carpopeltis phyllophora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ceramium* spp.	0.4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	0	2.2	0.3	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Cheilosporum sagittatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	0
R	*Corallina officinalis*	0	0	2.4	2.6	0	0	0	0	5.2	0	0	0	1.5	0	0	0	0	0	0	0	1.8	0.6	0	1.8
R	Corallines unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Craspedocarpus ramentaceus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Crustose coralline algae	34.7	10	21.8	39.1	0	50.1	19.9	35.8	53.9	27	39.9	19.4	21.8	39.8	29.5	53.6	51.4	50.1	27.9	43.2	30.1	56.9	54.4	43.4
R	*Curdiea angustata*	0	0	1	0.8	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0
R	*Delisea hypneoides*	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea pulchra*	0	0	0.2	0	0	0	0	0	0	0	0	0	0	1.6	1.7	0	0	0	0	0	0	0	0	0
R	*Dictymenia angusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Dictymenia harveyana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Echinothamnion hystrix*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Erythremenia minuta*	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.2	0	0	0	0	0	0	0	0
R	*Erythroclonium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
R	*Euptilota articulata*	0.2	0	0.6	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Filamentous red algae	0	0	0	0	0	0	0	2.4	0	0	0	0	0	0	0.6	0	0	0	0	0	0	2.8	0	0
R	Foliose reds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	GCA - Furry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	GCA - Spiky	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium asperum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium australe*	0	0	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0
R	*Gelidium glandulaefolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelinaria ulvoidea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina brachiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina muelleriana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gloiosaccion brownii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Grateloupia filicina*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Griffithsia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Haliptilon roseum*	0	0	0.8	4	0	0	0	0	0	0	0	3.6	2.2	0	2.4	0.8	0	7	0	0	1.8	0.6	0	4.4
R	*Haloplegma preissii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Halopteris like red algae	0	0	0.2	0.5	0	0	0	0.4	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0.4
R	*Hemineura frondosa*	10.3	0	0.8	0	0	0	5.8	6.6	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0
R	*Hildenbrandia spp.*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hymenena affinis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hypnea ramentacea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania pulchella*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0
R	*Jania verrucosa*	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0
R	*Jeannerettia lobata*	2.4	0	0	0	0	0	4.2	8.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia cribrosa*	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia tasmanica*	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia clavata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia elata*	0.4	0	1	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia filiformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia majuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia marginata*	2	3.2	0	0	0	0	2.8	0.6	0	0.5	0	0.2	0	0	4.4	0.2	0	0.8	0	0	0	0	0.6	0.8

Group	Species	19.5.5	19.6.5	19.7.5	19.8.10	19.9.10	2.1.5	2.6.5	2.7.5	20.1.5	20.10.10	20.11.10	20.12.10	20.13.10	20.2.10	20.5.10	20.6.10	20.7.10	20.8.10	20.9.10	21.13.5	21.14.5	21.15.5	21.16.10	21.4.5
Red algae cont…																									
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0.3	1.1	9.8	0.2	0.2	0.6	0	0	1.7	0.7	0.4	0	0	0	0	0
R	*Carpopeltis phyllophora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	2.5	0	0	0.2	0	0	0	0	0
R	*Champia viridis*	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0.3	0	2	0	0	0	0	0	0.4	0
R	*Cheilosporum sagittatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Corallina officinalis*	0	0	0	0	0	0	3.3	0.2	0.9	5	0	1.2	6.6	10.3	0	0	0.8	1.8	2.3	0	0	0	0.8	0
R	Corallines unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Craspedocarpus ramentaceus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Crustose coralline algae	50.5	74.5	41.3	11.8	33.2	28	22.6	30.5	50.5	72.6	52.8	41.1	49.9	41.2	61.5	47.8	56.1	34.2	60.1	8.5	42.5	30.7	46.3	30.4
R	*Curdiea angustata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
R	*Delisea hypneoides*	0	0	0	0	0	0	0	0	0	0	1	0	0	0.6	0	0	0	0	0	0	0	0	0	0
R	*Delisea pulchra*	0	0	0	0	2.2	0	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0	0	0	0	0.8
R	*Dictymenia angusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Dictymenia harveyana*	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Echinothamnion hystrix*	0	0	0.4	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Erythremenia minuta*	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Erythroclonium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0
R	*Euptilota articulata*	0.2	0	0	0	0	0	0	0	0	0	0	0.6	0.9	0.5	0	0	0	1.8	0	0	0	0	0	0
R	Filamentous red algae	0	0	4.4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Foliose reds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4	0	0	0	0	0	0	0	0	0
R	GCA - Furry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	GCA - Spiky	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium asperum*	0	0	0	0	0	0	0	0	6.8	0	0.5	1.6	0.4	0	0	0	4.8	0	4.5	0	0	0	0	0
R	*Gelidium australe*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium glandulaefolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelinaria ulvoidea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina brachiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina muelleriana*	0	0	0	0	0	0	0	0	4.8	0	0	0	0	0	0	0	7.5	0	0	0	0	0	0	0
R	*Gigartina* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gloiosaccion brownii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Grateloupia filicina*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Griffithsia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Haliptilon roseum*	0	0	0	0	1.4	0	0	0	3.6	5.2	0.8	1.6	12.8	6.9	0	0	11.2	0.8	5.7	2.6	0	1.2	7.8	1.4
R	*Haloplegma preissii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Halopteris like red algae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.4
R	*Hemineura frondosa*	0	0	0.2	0	0	0	0	0	0	0	0	0.9	0	0	0.1	0	0	0	0	0	0	0	0	0.6
R	*Hildenbrandia spp.*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hymenena affinis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hypnea ramentacea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania pulchella*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania* spp.	0	0	0	0	0	0	0	0	0	0	0	0	2.9	0	0	0	0	0	0	0	0	0	0	0
R	*Jania verrucosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4	0	0	0	0
R	*Jeannerettia lobata*	0	0	0.4	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0.8	0	0
R	*Kallymenia cribrosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia clavata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia elata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0
R	*Laurencia filiformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia majuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia marginata*	0	0	0.2	0.3	1.4	0.2	0	0	0	0	0.3	0	0.6	0.3	0.9	0	0	0	0	0	0	0	0	0

Group	Species	21.5.5	21.6.5	21.7.5	21.8.5	21.9.5	22.1.5	22.10.5	22.11.5	22.2.5	22.3.5	22.4.5	22.5.5	22.6.5	22.7.5	22.8.5	22.9.5	23.1.5	23.2.5	23.3.10	24.1.10	24.1.5	24.2.5	24.3.5	24.4.10
Red algae cont…																									
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Carpopeltis phyllophora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	1.2	0	0	0.4	0	0.1	0	0	0.2	0	0.4	0	0	0.2	0	0	0	0	1.8	0	0	0	0	0
R	*Cheilosporum sagittatum*	0	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Corallina officinalis*	0.6	3.9	11.6	16	0	0	2.8	0	1.7	0	1	1.5	0.2	0	0	0.2	0.6	2.8	0	0	0	0	0	0.1
R	Corallines unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Craspedocarpus ramentaceus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Crustose coralline algae	49.3	41.8	17.8	27.9	11.3	11.1	16.8	5.1	45.1	19.7	31.2	37.6	22	33	0.4	12	53.4	74.7	30.3	36.3	57.7	44.7	47	51
R	*Curdiea angustata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea hypneoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea pulchra*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0
R	*Dictymenia angusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Dictymenia harveyana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Echinothamnion hystrix*	0	0	0	0	0	1.1	0.9	0	0	17.4	0	0	0	0	0.2	2.7	0	0	0	0	0	0	0	0
R	*Erythremenia minuta*	0	0	0	0	0	0	0	0	0	0.2	0.2	0.4	0	0	0	0	0	0	0	0	0	0	0	0
R	*Erythroclonium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Filamentous red algae	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	11.4	0	0	0	0	0	0	0	0
R	Foliose reds	0	0	0	0	0	0	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	GCA - Furry	0	0	0	0	0	10.7	27.2	0	5.1	0	4.2	4	0	0	0	6	0	0	0	0	0	0	0	0
R	GCA - Spiky	0	0	0	0	0	0	4.9	0	0	13.4	6.8	1.8	0	0	0	0.2	0	0	0	0	0	0	0	0
R	*Gelidium asperum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium australe*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9
R	*Gelidium glandulaefolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelinaria ulvoidea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina brachiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina muelleriana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gloiosaccion brownii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Grateloupia filicina*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Griffithsia* spp.	0	0	0	0	0	0.2	0.1	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0
R	*Haliptilon roseum*	0	1.7	0.2	2.4	4.4	7	3.1	0	8.8	0.4	1.6	9	6.2	0	0	4.6	0.2	3.4	0	1.8	0.8	0	0	8.5
R	*Haloplegma preissii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Halopteris like red algae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	7	0.7	1.3	3.3
R	*Hemineura frondosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.2
R	*Hildenbrandia spp.*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hymenena affinis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hypnea ramentacea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania pulchella*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania* spp.	0	0	0	0	0	0.9	0	0	3.3	0	0.6	0.2	2.4	0	0	0	0.4	1.6	0	0	0	0	0	0
R	*Jania verrucosa*	1	0	0	0.4	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jeannerettia lobata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia cribrosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia clavata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia elata*	0	0	0	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia filiformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia majuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia marginata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0.1	0

Group	Species	24.5.10	24.6.5	4.3.5	4.4.5	4.5.5	4.6.5	6.1.5	6.2.5	6.3.5	6.4.5	6.5.5	6.7.5	7.1.5	7.2.5	7.3.5	7.4.5	7.5.5	7.6.5	7.7.10	7.8.10	7.9.10	8.1.5	8.10.5	8.11.5
Red algae cont…																									
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Carpopeltis phyllophora*	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
R	*Champia viridis*	0	0	0	0.4	0	0	0	0	0.1	0.8	0.2	0	0	0.3	0	0	0	0	0	0	0.5	0	0	0
R	*Cheilosporum sagittatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Corallina officinalis*	0	23.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	1	3.1
R	Corallines unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Craspedocarpus ramentaceus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Crustose coralline algae	83.6	34.9	16.6	40.7	1.8	0.4	13.2	42.4	13.2	16.6	41.8	3.6	29.6	5	20.7	5.9	2.8	52.8	8.5	32.9	8.4	60.1	5.3	10.4
R	*Curdiea angustata*	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea hypneoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea pulchra*	0	0	0	0.4	0	0	0	0	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Dictymenia angusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Dictymenia harveyana*	0	0	0.4	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
R	*Echinothamnion hystrix*	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0.6	0	0.4	0	0	0
R	*Erythremenia minuta*	0	0	0.3	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0
R	*Erythroclonium* spp.	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Filamentous red algae	0	3.6	0	0	65.5	0	5.7	2.6	3.6	0	4.4	41.6	0	0	0	0	0	0	0	0	0	0	0	0
R	Foliose reds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	GCA - Furry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.8	0
R	GCA - Spiky	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8	4
R	*Gelidium asperum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium australe*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0	0.6	0	0	0	0	0	0	0
R	*Gelidium glandulaefolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelinaria ulvoidea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina brachiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina muelleriana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gloiosaccion brownii*	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Grateloupia filicina*	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Griffithsia* spp.	0	0	0	0	0	4.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
R	*Haliptilon roseum*	0	0	0	0	0	0	0	0	0	0	1.1	0	6.4	0	9.2	2.4	2.6	4.4	0	4.4	0	0	0.4	1.7
R	*Haloplegma preissii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Halopteris like red algae	3.5	2	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hemineura frondosa*	0	0	6.3	1.4	0	3.8	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hildenbrandia spp.*	0	0	0	0	0	0	0.3	3	3	4.2	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hymenena affinis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hypnea ramentacea*	0	0	0	0	0	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania pulchella*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania* spp.	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.2	3
R	*Jania verrucosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jeannerettia lobata*	0	0	12.6	1	0	5.2	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia cribrosa*	0	0	0	0	0	0	0	0.1	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia tasmanica*	0	0	0	0	0	0	0.3	0	0	0.8	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia clavata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia elata*	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia filiformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia majuscula*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia tasmanica*	0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
R	*Lenormandia marginata*	0	0	1.4	0.2	0	0.8	3.3	0	1.3	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	8.12.8/4	8.2.5	8.3.5	8.4.5	8.5.5	8.6.5	8.7.10	8.8.10	8.9.5	9.1.5	9.10.10	9.11.10	9.12.5	9.13.10	9.14.5	9.15.5	9.16.5	9.17.10	9.18.10	9.19.10	9.2.5	9.3.5	9.4.5	9.5.5
Red algae cont…																									
R	*Camontagnea oxyclada*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Carpopeltis phyllophora*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ceramium* spp.	0	0	0	0	0	0	0	0	4.6	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Champia viridis*	0	0	0	0.4	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0.2	0	0	0	0
R	*Cheilosporum sagittatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Corallina officinalis*	0	1.6	14	2	0	0.4	0	0	2	1	0	1	2.2	0	4.2	0.2	13.8	1.8	1.8	1	4	2	10.6	2.4
R	Corallines unidentified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Craspedocarpus ramentaceus*	0	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Crustose coralline algae	0	15.7	16.4	7.2	58.2	56.1	58.3	36	23.8	12.6	10.8	10.2	12.6	10.6	10.1	5	10.2	12.3	17.6	22	40.5	39.4	21.1	10.7
R	*Curdiea angustata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea hypneoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Delisea pulchra*	0	0	0	0	0	1.6	0	0	0	0	0	0	0.8	0	0	0	0	0.4	0	0	0	0	0	0
R	*Dictymenia angusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Dictymenia harveyana*	0	0.8	0	0	0	0	0.5	0	0.6	0	1.2	1.4	0	0	0	0.4	0	0	0	0	0	0	0	0
R	*Echinothamnion hystrix*	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Erythremenia minuta*	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0
R	*Erythroclonium* spp.	0	0	0	3	0	0	0	0	0.2	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0
R	*Euptilota articulata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Filamentous red algae	0	11.6	0	0	0	0	0	0	13.2	0	0.4	2.8	0	0	0.6	0.6	1.2	0	0	0.6	0	0	0	0
R	Foliose reds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	GCA - Furry	0	0	0	0	0	0	0	0	0	4.2	0	0	1.8	0	10.6	22	0	1.8	4.2	0	0.6	0	0	0
R	GCA - Spiky	0	0	0	5.6	1.2	0	0	0	0	1.2	0	0	0	0	1.2	9.8	0	1.2	1	0	0	0	0	6.4
R	*Gelidium asperum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium australe*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium glandulaefolium*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gelidium* spp.	0	0	0	0	0	0	0	0	0	0.6	0	2.8	0	1.4	0	0.4	0	0	0	0	0	0	0	0
R	*Gelinaria ulvoidea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina brachiata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina muelleriana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gigartina* sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Gloiosaccion brownii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0
R	*Grateloupia filicina*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Griffithsia* spp.	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.6	0	0.6	0	0	0	0	0	0	0	0
R	*Haliptilon roseum*	0	3.8	5	26.8	2.6	1.8	4	13.8	4	0.8	2.8	2.4	3.8	2.4	11.1	4.8	17.6	2.2	1.6	1.6	2.2	3.8	3.6	10
R	*Haloplegma preissii*	0	0.4	0	0	0	0	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Halopteris like red algae	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0.2	1.2	0	0	0	3.6	0.8	1.2	6.2	0
R	*Hemineura frondosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0
R	*Hildenbrandia spp.*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hymenena affinis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Hypnea ramentacea*	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0
R	*Jania pulchella*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jania* spp.	0	0	0	0	0	0	0	0	0	0.2	0	0	0	1	0.8	0	0	0	0.6	0	0	0	0.4	0
R	*Jania verrucosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Jeannerettia lobata*	0	0	0	0	0	0	0.4	0	0.3	0	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia cribrosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Kallymenia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia clavata*	0	2	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0.4	0	0	0	0	0	0	0	0
R	*Laurencia elata*	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia filiformis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.8
R	*Laurencia majuscula*	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Laurencia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	2.2	0	0	0	0	0	0	0	0
R	*Laurencia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lenormandia marginata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	9.6.5	9.7.5	9.8.10	9.9.10																			
Red algae cont…																								
R	*Camontagnea oxyclada*	0	0	0	0																			
R	*Carpopeltis phyllophora*	0	0	0	0																			
R	*Ceramium* spp.	0	0	0	0																			
R	*Champia viridis*	0	0	9.2	0																			
R	*Cheilosporum sagittatum*	2	0	0	0																			
R	*Corallina officinalis*	4.6	6	7.2	0																			
R	Corallines unidentified	0	0	0	0																			
R	*Craspedocarpus ramentaceus*	0	0	0	0																			
R	Crustose coralline algae	44.4	12.8	7.1	11.4																			
R	*Curdiea angustata*	0	0	0	0																			
R	*Delisea hypneoides*	0	0	0	0																			
R	*Delisea pulchra*	0	0	0	0																			
R	*Dictymenia angusta*	0	0	0	0																			
R	*Dictymenia harveyana*	0	0	0	0																			
R	*Echinothamnion hystrix*	0	0	0	0																			
R	*Erythremenia minuta*	0.2	0	0	0																			
R	*Erythroclonium* spp.	0	0	0	0																			
R	*Euptilota articulata*	0	0	0	0																			
R	Filamentous red algae	0	4.6	0.8	0																			
R	Foliose reds	0	0	1	0																			
R	GCA - Furry	0	12.2	0	1.2																			
R	GCA - Spiky	0	7.2	0	0																			
R	*Gelidium asperum*	0	0	0	0																			
R	*Gelidium australe*	0	0	0	0																			
R	*Gelidium glandulaefolium*	0	0	0	0																			
R	*Gelidium* spp.	0	0	0.4	0																			
R	*Gelinaria ulvoidea*	0	0	0	0																			
R	*Gigartina brachiata*	0	0	0	0																			
R	*Gigartina muelleriana*	0	0	0	0																			
R	*Gigartina* sp.	0	0	0	0																			
R	*Gloiosaccion brownii*	0	0	0	0																			
R	*Grateloupia filicina*	0	0	0	0																			
R	*Griffithsia* spp.	0	0	0.9	0.3																			
R	*Haliptilon roseum*	5.8	5.6	5.2	8.2																			
R	*Haloplegma preissii*	0	0	0	0																			
R	Halopteris like red algae	1	0	0	0																			
R	*Hemineura frondosa*	0	0	0	0																			
R	*Hildenbrandia spp.*	0	0	0	0																			
R	*Hymenena affinis*	0	0	0	0																			
R	*Hypnea ramentacea*	0	0	0	0																			
R	*Jania pulchella*	0	0	0	0																			
R	*Jania* spp.	0	0.2	0	5																			
R	*Jania verrucosa*	0	0	0	0																			
R	*Jeannerettia lobata*	0	0	0	0																			
R	*Kallymenia cribrosa*	0	0	0	0																			
R	*Kallymenia tasmanica*	0	0	0	0																			
R	*Laurencia clavata*	0	0	0	0																			
R	*Laurencia elata*	0	0	0	0																			
R	*Laurencia filiformis*	0	0	0	0																			
R	*Laurencia majuscula*	0	0	0	0																			
R	*Laurencia* spp.	0	0	0	0																			
R	*Laurencia tasmanica*	0	0	0	0																			
R	*Lenormandia marginata*	0	0	0	0																			

Group	Species	0.1.10	0.1.5	0.3.5	0.4.10	0.7.10	0.8.5	0.9.10	10.1.5	10.2.5	10.3.5	10.4.5	10.5.5	10.6.5	10.7.5	10.8.5	11.1.5	11.10.5	11.11.5	11.12.5	11.2.5	11.3.5	11.4.5	11.7.5	11.8.5
Red algae cont…																									
R	*Lenormandia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lomentaria australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lophothalia hormoclados*	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia abscissa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia concinna*	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0.2	0.4	2.1	0.4	0.8	0.9	0	0	0	0
R	*Melanthalia obtusata*	0	0	1.8	0	0.6	0	0	0	0	0.6	0	0	0	0.9	0.6	1.2	4.5	0	0.8	0.4	2.2	0	0	0
R	*Melanthalia* spp.	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metagoniolithon radiatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metagoniolithon stelliferum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metamastophora flabellata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Mychodea carnosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Myriogramme gunniana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nitospinosa tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nizymenia australis*	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Other structural corallines	0	6	0.2	4.2	6.4	7.8	5.3	1.6	0	0	0.3	0	4.3	0	0	0	7.1	0	0	0	0.3	1.7	0	0
R	Other thallose red algae	3.4	0	7.2	10.4	0.8	5.6	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Peltasta australis*	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Perithalia like red algae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Peyssonnelia flat	5.9	5.1	8	5.2	8.3	9.4	5.3	10.9	0	5.6	7.1	0	5.8	7.1	15.5	7	12.8	13.6	5.4	10	16.2	8.5	1.1	11.8
R	*Peyssonnelia novaehollandiae*	0.8	0	4.6	0.2	1.1	0.4	7.6	0.8	0	0	0	0	0.4	0	1	0	0	0	0	1.8	0	0	0	0
R	*Phacelocarpos sessilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus alatus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus apodus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus peperocarpus*	11.9	3.9	1.3	2	1	4.1	1.8	0	0	6.5	3.1	0	2.2	9.3	10.3	14.4	28.2	1.4	6.8	4.2	6.8	1.2	0.3	8.8
R	*Phacelocarpus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phymatolithon masonianum*	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium angustum*	5.7	4	3.7	9.8	2.8	8.6	3.7	0.2	0	3.9	3.6	0	0	4.3	1.7	9.4	5.2	0	5.5	3.05	6.7	0.6	0	1.6
R	*Plocamium cartilagineum*	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1.3	1	0	0	0.4	1.6	0	0	0
R	*Plocamium costatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0.2	0	0	0	0	0
R	*Plocamium dilatatum*	1.1	0.5	1.2	11.7	0.6	0.5	2.4	0	0	0	0	0	0.2	2.1	0.2	1.8	0	0	0	0	0	0	0	0
R	*Plocamium leptophyllum*	2.1	0.6	1.9	3.2	5.2	2.6	3.7	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0
R	*Plocamium mertensii*	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium patagiatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Polyopes constricta*	0	2.4	0	2.8	0.8	2.8	0	0	0	2.3	2.2	0	0	0.2	0	0.8	0.7	0.5	0.2	0.4	0.6	0	0	2.5
R	*Polysiphonia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia capillacea*	0	0	0	4.4	0	0	1.2	0	0	2.6	9.8	0	8.1	16.6	11.7	8.6	21	33.2	40.4	14.2	9.1	19	0.9	5
R	*Pterocladia lucida*	3.8	0	0	0	0	0	0	0	0	0.8	0.6	0	0	0	0	0	0	2.5	0	0.9	0.9	0	0	0
R	*Pterocladia pinnata*	0	14.7	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	1.2	0.1	0	4.2	0	0.4	5.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia sublifera*	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Red cabbage	0	0.4	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodopeltis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia obtusa*	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	2.6	0	4.4	0	0	1.2	0	0.2	0	0	0	0	0	0	0	5.9	0.75	0.2	0	0	0.4	0.4	0	0.1
R	*Solieria robusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Sonderopelta coriacea*	1	0	1.4	3.2	0	0	6.2	0	0	0	0	0	0.2	0	1.4	1.1	0.6	0	0	1.2	0	0	0	0
R	*Spyridia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Stenogramme interrupta*	1.4	0	0.8	1	0.6	2.4	4.4	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0
R	*Synarthrophyton patena*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Thamnoclonium dichotomum*	0	0	0	1.2	0	0	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Trematocarpus concinnus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Turfing red	0	2.8	0	0	0	14.8	1.2	0	0	18.3	0	0	0	8	0	3.1	0.4	2.5	0	0.5	0	5.3	1.6	0

Group	Species	11.9.5	13.1.10	13.1.5	13.10.10	13.11.10	13.2.5	13.3.10	13.4.10	13.5.10	13.6.10	13.7.10	13.8.10	13.9.10	14.1.5	14.10.5	14.11.5	14.12.5	14.2.5	14.3.5	14.4.5	14.5.5	14.6.5	14.7.5	14.8.5
Red algae cont…																									
R	*Lenormandia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lomentaria australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lophothalia hormoclados*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia abscissa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia concinna*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia obtusata*	0	0	0	0	0	0	0	0	0	4.4	0	0	0	1.3	0	0	0	0	0	0.5	0	0	0	0
R	*Melanthalia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metagoniolithon radiatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metagoniolithon stelliferum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metamastophora flabellata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Mychodea carnosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	1.6	0
R	*Myriogramme gunniana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nitospinosa tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nizymenia australis*	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0
R	Other structural corallines	0	0.4	0	7.6	11.4	0	0	12.8	2	12	0	10	0	0.6	0	0	0.3	0	0	0	2.9	2.9	0	1.1
R	Other thallose red algae	0	0	0	3.4	0.4	0	0	2.2	1.8	2.2	0	0	5.6	3.2	0.4	9	0	0.4	4.2	0.8	1	0.3	2.9	0.3
R	*Peltasta australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Perithalia like red algae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Peyssonnelia flat	4.4	9.8	4.3	12	10.1	6.9	6.9	12.2	10.1	15	0	6.1	13.8	1.3	8.1	1.4	2.1	3.9	11	1.3	16	8.3	3.3	10.1
R	*Peyssonnelia novaehollandiae*	0	0	0	3.4	3	0	0	0	3.1	0	0	1.2	0	0.2	0	0	0	0	0.2	0	0.1	0	0.3	0.2
R	*Phacelocarpos sessilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus alatus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus apodus*	0	0	0	0	0	0	0	0	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus peperocarpus*	0	1.6	0	3	1.2	0	0.6	4.3	5.2	0	0	1.1	4.6	2.6	0	0	0	0	0	3.6	0	0	0	0
R	*Phacelocarpus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phymatolithon masonianum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium angustum*	1.3	3.4	0	5.9	5.1	1	0	4.1	3.1	3.2	0	7	0	10.4	0.2	0.3	1	0	3.5	4.9	0.9	1.4	1.6	2.8
R	*Plocamium cartilagineum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium costatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
R	*Plocamium dilatatum*	0	0	0	6.4	2.9	0	0	0.2	3.2	4	0	5	0.6	0	0	0	0	0	0.4	2	0	0	0	0
R	*Plocamium leptophyllum*	0	0.4	0	3.3	5.1	0.3	0	1.8	1.6	0	0	1.5	0	0.3	0	0	0	0	0.7	5.9	0	0	0	0.2
R	*Plocamium mertensii*	0	0	0	0	0	0	0	0	0	0	0	0	0	2.6	0	0	0	0	0	0	0	0	0	0
R	*Plocamium patagiatum*	0	0.4	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Polyopes constricta*	1	0.2	0	0	0	0	0	5	0.6	1.5	0	0	7.2	0	0	0	0	0	0	0	0	0	0	0
R	*Polysiphonia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia capillacea*	0	0	0.4	0	0	0	0	0	0	8.4	0	0	0	0	0	0	0	0	0.4	0	0.2	0	0	0
R	*Pterocladia lucida*	0	0	0	0	0	0	0	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0	0	0	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0
R	*Ptilonia sublifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Red cabbage	0	0	0	0.4	0	0	0	0	0	0	0	1.3	0	0	0	0	0	0	0.6	0	0.9	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0
R	*Rhodopeltis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia obtusa*	0	0	0	0	0	0	0	0	0	0	0	0.9	4.7	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	2.4	0	6.1	1.4	0	3.1	1.3	3.8	4.4	0	4.9	0.6	2	0.6	1.8	1.4	0	0	2.3	0.2	0	2.5	2.4
R	*Solieria robusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Sonderopelta coriacea*	0	1.3	0	0	0	0.4	2	0.4	4	0	0	0	0	3	0	0	0	0	1.6	6.1	0	0	0	0
R	*Spyridia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	0
R	*Stenogramme interrupta*	0	0	0	1.8	1.8	0	0	1	1.2	5.6	0	2.1	1	0.4	0	0	0	0	1.6	2.2	0	0	0.1	0
R	*Synarthrophyton patena*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0.9	0	0	0	1.5
R	*Trematocarpus concinnus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Turfing red	1.1	0.4	0.5	6.8	4	5.3	0.6	1.2	5.3	8.8	0	3.5	15.2	3.1	7.4	0.7	0	0.5	3.9	0	1	0	0	13.9

Group	Species	14.9.5	17.1.5	17.10.5	17.11.5	17.12.5	17.13.5	17.14.5	17.15.5	17.2.5	17.3.10	17.3.5	17.4.10	17.4.5	17.5.5	17.6.5	17.7.10	17.7.5	17.8.10	17.8.5	17.9.5	18.1.5	18.10.5	18.11.5	18.12.5
Red algae cont…																									
R	*Lenormandia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lomentaria australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lophothalia hormoclados*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia abscissa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia concinna*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia obtusata*	0	1.1	0.2	0	0	0	0	0	0.2	2	0.4	0.1	0	0	0	0	0.8	0	0	0	0	3.4	0	0
R	*Melanthalia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metagoniolithon radiatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metagoniolithon stelliferum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metamastophora flabellata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Mychodea carnosa*	0	0	0	0	0.1	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6
R	*Myriogramme gunniana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nitospinosa tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nizymenia australis*	0	0.8	0	0	0	0	0	0	0.6	0.6	0	0.3	0	0.4	0.6	0.3	0	1.2	0	0	0	0	0	0
R	Other structural corallines	0	6	0	0	0	0	0	6.7	2.9	2.1	0	0.1	0	7.6	0.6	2.6	0	0	0	4.4	0	0.2	0	0
R	Other thallose red algae	0.5	2	0.8	0	4.9	2.6	0	0	0	0	2.8	0	0	8.2	0	0	2.5	0	4	0	4.4	0	0	4.2
R	*Peltasta australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Perithalia like red algae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Peyssonnelia flat	12.1	8.9	4.4	15.9	12.9	7.5	18.2	11.8	3.3	9.3	5.3	11.3	1.7	5.3	11	9.7	12.4	7.8	8.3	11.1	8.4	17.1	19	25.2
R	*Peyssonnelia novaehollandiae*	0	0	0	0	0	0	0	0	1	1.6	0	0.5	0	0	4.5	2	1.4	2	1.6	0	0	0	1.4	0
R	*Phacelocarpos sessilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus alatus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus apodus*	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0.2	0	0.2	0	0
R	*Phacelocarpus peperocarpus*	0	3.2	21.9	0.6	0	2.8	0.1	0	1.4	27.1	0	0.1	0	3.5	0	2.2	7.5	0	0	13.8	8.2	2.9	0.2	0
R	*Phacelocarpus* spp.	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phymatolithon masonianum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium angustum*	0.1	8.2	13.2	0.7	1.3	2.8	0	1.4	2.2	7.6	0.8	2.7	4.5	6.9	1.4	16.4	13.2	1.1	0.9	16.7	2.7	1.7	0.8	3.2
R	*Plocamium cartilagineum*	0	0	0	0	0.2	0.4	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0.5	0	0
R	*Plocamium costatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0	0	0	0.6	0	0	0	0.6
R	*Plocamium dilatatum*	0	1.3	4	1.4	0	0.8	0	0.4	1.2	0.9	0	0.5	0.9	1.7	0	1.5	3.3	0	1	2.6	0.6	11.3	0.6	4.6
R	*Plocamium leptophyllum*	0	2.4	3.8	0	0.2	0	0	0.2	0.3	2.4	0.2	0	0	0.6	0	0.5	0	0	0	0.6	0	0	0	0
R	*Plocamium mertensii*	0	0	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.9	0	0
R	*Plocamium patagiatum*	0	0	0	0	0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Polyopes constricta*	0	7.8	1.4	10.2	4.4	0.4	4.3	0	3.2	3.6	6.7	0.2	0	2.5	0	1.2	4.4	0	0	3.6	6	2	1.5	2.6
R	*Polysiphonia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia capillacea*	0	0	10	0	0	0	0	0	0	2.4	1.6	0	0	1	0	0	1.2	0	0	0	0	0	0	0
R	*Pterocladia lucida*	0	0	0	0	1	0	0	0	0	0	0	0.2	0	1.6	0	0	0	0	0	0.6	0	0	0	0.2
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	1	0	0	0	0	0	0	0	1.2	0	0.3	0	0	0	1.4	0	0	0.8	0	0	0	0	0
R	*Ptilonia sublifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Red cabbage	0	0	0	0	0	0	0	0	0.7	0	0	0	0.5	0.8	0	0.2	0	0.2	0.8	0	0	1.4	0	0.4
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodopeltis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0
R	*Rhodymenia obtusa*	0	0.2	0	1	2.6	0	0.8	0	0	0	0	0	0	4.2	0	0	0.4	0	0	0	0.2	0.3	0.2	0
R	*Rhodymenia* spp.	0	1	3.1	4.6	34.4	3.8	1	0	0.95	3.7	6.5	0.45	0	7.5	1.3	2.65	0.9	1.7	0	4.8	1.7	1.9	0.4	3.2
R	*Solieria robusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Sonderopelta coriacea*	0	0	0	0	0	0	0	0	0	0	0	1.6	0.3	0	0	5.5	0.6	0	0.8	0.4	0	0	0	0
R	*Spyridia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Stenogramme interrupta*	0	2	0	0	0	0	0	0	0.2	2	0.2	0.7	0	3.8	2.4	4.8	0	0	0	2	0	0	0	0.7
R	*Synarthrophyton patena*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	0	0.9	0	1.1	1.6	0	0	0	0	0
R	*Trematocarpus concinnus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Turfing red	2.1	3.4	0	4.4	2	0.8	3.2	0	3.2	5.6	0	0.8	0	1.2	1.8	1	0.4	1.8	0	0	19.4	6.5	2.6	2.3

Group	Species	18.2.5	18.3.10	18.4.10	18.4.5	18.6.5	18.7.5	18.8.5	18.9.5	19.1.5	19.10.10	19.11.10	19.12.5	19.13.10	19.14.5	19.15.10	19.16.5	19.17.5	19.18.5	19.19.10	19.2.5	19.3.10	19.3.5	19.4.5	19.5.10
Red algae cont…																									
R	*Lenormandia* spp.	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lomentaria australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lophothalia hormoclados*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia abscissa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia concinna*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia obtusata*	0	0.6	1.8	3	0	0	0	0	0.2	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metagoniolithon radiatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metagoniolithon stelliferum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metamastophora flabellata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Mychodea carnosa*	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Myriogramme gunniana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nitospinosa tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nizymenia australis*	0	4.2	0.4	0	0	0	0.8	0	0	0	0.2	0	0	0	1.1	0	0	0	0	0	0	0	0	0	0
R	Other structural corallines	0	2.2	0.4	7.2	0	0.5	0.2	0	0	1.7	0.5	5	0	2.4	6	1.4	0.2	5.5	0.3	3.2	0	2.8	1.5	8.4
R	Other thallose red algae	0.6	0	0.4	0	0	0	0	0	14	0	0	18.6	8.5	22.4	3.3	0	0	4	0	10	1.2	1.6	7.2	6
R	*Peltasta australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Perithalia like red algae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Peyssonnelia flat	7.9	2.9	6.6	9	0	22.8	11.4	18.2	8.8	7.3	10.9	4.9	8.7	5.2	6.8	8	9.4	13.1	5.7	6	4.4	7.3	6.7	19.3
R	*Peyssonnelia novaehollandiae*	0	0	3.8	1.5	0	0	0	0	0.4	0	0	0	0	0	3.5	0	0	0.8	0	0.4	0.1	0.2	1.2	0
R	*Phacelocarpos sessilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus alatus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus apodus*	10.3	0	1.6	3	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus peperocarpus*	6.6	3.8	0	6.8	0	0	0.5	0	0	1.4	0	0	0	0	0	0	0	3.4	0	0	0.1	0	0	1.8	0
R	*Phacelocarpus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phymatolithon masonianum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium angustum*	2.9	1.8	11.2	4.8	0	0	0.8	2.2	0.2	0	0.7	0.8	0	0	5	0.2	0	0.4	0	0.8	0	0	0	2.6	0
R	*Plocamium cartilagineum*	0	0	0	6.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0
R	*Plocamium costatum*	0	0	17	0	0	0	0	0	0	0.2	0	0.6	0	0	0	0	0.9	0	0	0	0	0	0	0	0
R	*Plocamium dilatatum*	1.4	1.3	14.9	20.6	0	0	0	2.4	0	0	0	0	2.3	1.2	2.4	1.1	0	2.2	0	0	0.3	0.6	4.8	2.2	0
R	*Plocamium leptophyllum*	0	0	0.2	0	0	0.3	0.2	0	0.4	1.3	1	0.4	0	1.2	3.1	0	0.6	0.4	0	0	1.7	0	0	1.5	0
R	*Plocamium mertensii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium patagiatum*	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Polyopes constricta*	1.8	1.6	0	0.6	0	0	1.6	1	0.2	0	0	0	3.3	0	0	0	0.5	1.2	1	5.8	0	0	0	2.6	0
R	*Polysiphonia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia capillacea*	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0.6	0.4	1.6	0	0	0	0	0	0	0	0	0	0	3	0	0	0.4	0.4	0	0	0.4	0	0.4	0
R	*Ptilonia sublifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Red cabbage	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	4.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodopeltis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia obtusa*	2.2	0	0	0	0	0	0	0.7	0	0	0	1.8	0	0	0	0	0	0	0.7	1	0	0	0	0	0
R	*Rhodymenia* spp.	6.6	7.6	0.6	0.3	0	0	0	0	0	0.8	1.1	0.6	0.2	0.6	0	0	0.4	0	0	0	1.5	0.4	0	4.2	0
R	*Solieria robusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Sonderopelta coriacea*	0	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0.8	0	0	0	0	0	0	0	1.4	0.6	0
R	*Spyridia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Stenogramme interrupta*	0	0	1.6	0.3	0	0	0	1	0	0	0	0.2	3.4	0	2.6	0	0	0	0	0.6	0.5	0	0	1.2	0
R	*Synarthrophyton patena*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0
R	*Trematocarpus concinnus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Turfing red	0.4	7.6	0	0	0	0	4	0	3.5	1.7	0.3	8.2	0.8	3	4.1	14.5	7.4	6.6	4	7	1.4	0.6	18.7	7.2	

Group	Species	19.5.5	19.6.5	19.7.5	19.8.10	19.9.10	2.1.5	2.6.5	2.7.5	20.1.5	20.10.10	20.11.10	20.12.10	20.13.10	20.2.10	20.5.10	20.6.10	20.7.10	20.8.10	20.9.10	21.13.5	21.14.5	21.15.5	21.16.10	21.4.5
Red algae cont…																									
R	*Lenormandia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lomentaria australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lophothalia hormoclados*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia abscissa*	0	0	0	0	0	0	0	0	0	0	0	3.9	1.5	0	0	0	1.4	0	0.6	0	0	0	0	0
R	*Melanthalia concinna*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia obtusata*	0	1.1	0	0	0	0.2	0	0	1.2	0	0	3	8.9	0	0	1.3	0	0	3	0	0	0	0	0
R	*Melanthalia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metagoniolithon radiatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0.4	0	0
R	*Metagoniolithon stelliferum*	0	0	0	0	0	0	0	5.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metamastophora flabellata*	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.3	0	0	0	0	0	0	0	0	0	0
R	*Mychodea carnosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Myriogramme gunniana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nitospinosa tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nizymenia australis*	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Other structural corallines	1.5	0	2	6.8	8	9.2	0	0	0	0	0	0	0	0	1.4	20.8	0	0	0	15.4	5.7	0.2	12.4	1
R	Other thallose red algae	0	4.3	1.6	0	0	0	0.5	0	2.5	0.4	0.5	0.2	0	0.6	0	0	0	0	0.4	9.4	0	0	2.2	26.4
R	*Peltasta australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Perithalia like red algae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Peyssonnelia flat	12.3	5.1	15.7	7.3	13.3	8.2	12.1	28.1	9.9	7.5	5.7	8.5	3	13.9	18.9	14.3	23.5	7.6	11.6	0.4	9.6	23.3	5.2	3.7
R	*Peyssonnelia novaehollandiae*	0	0	0	0.5	0.7	0	0	0	0	0	0	0	0	0.3	0	0	0	0.4	0	0.2	0	0	1.2	0
R	*Phacelocarpos sessilis*	0	0	0	0	0	0	0	0	0	0	0.4	0	0.4	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus alatus*	0	0	0	0	0	0	0	0	0	0	0	4	0.8	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus apodus*	0	0	0	0	0.6	1.5	0	0	0	0	0	0	0	0	1.7	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus peperocarpus*	0	0	0	0	0	0	0	0	4.7	1.3	4.1	3.9	16.7	3.4	11.9	8.7	3.7	4.1	7	0	0.4	0	2.8	0
R	*Phacelocarpus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phymatolithon masonianum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium angustum*	0.2	0	0	0.6	1.4	4.7	0	0.2	14.2	0.8	9.5	21.8	4.7	21.3	4.5	6.8	7.4	10	7.5	0	0.7	0	1.9	1
R	*Plocamium cartilagineum*	0.2	0	0	0.3	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium costatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0
R	*Plocamium dilatatum*	0	0	0	0	3.7	0	0	0	3	0.4	0	3.3	0	1.4	1	4.7	0	2.2	2.5	0	0.5	0	1.8	0.6
R	*Plocamium leptophyllum*	0	0	0	0.3	5.6	0.1	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0	3.4	0
R	*Plocamium mertensii*	0	0	0	0	2.2	0	0	0	0	0	0	0.4	0.5	0	0	0	0	0	1.8	0	0	0	0	0
R	*Plocamium patagiatum*	0	0	0	0	0	0	0	0	0	0	8.7	0	0	0	0	0	0	0.2	0	0	0	0	0	0
R	*Polyopes constricta*	5.7	2.7	0	0	0	0.6	0	0	0	9.5	0	1.3	1.3	1.5	0.6	1.8	0.5	5.9	5.2	0	0.1	0	1.2	0
R	*Polysiphonia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia capillacea*	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	3.6	0.8	0	0	0	0	0.2	0	0	0
R	*Pterocladia lucida*	0	0	0	0	0	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0	0	0.3	0	0.4	0	0	0.2	0	2.6	0	0	0.9	3.4	0.4	0	0.2	14.7	0	0	0	0	0
R	*Ptilonia sublifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Red cabbage	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodopeltis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia obtusa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.9	0.5	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0.5	0	0	0.3	0	0	0	0	1.8	0	3.5	4.2	3.3	3.1	1	0.3	1.7	2.1	2.6	0	0	0	0.9	0
R	*Solieria robusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Sonderopelta coriacea*	0	0	0	1	0.4	0	0	0	0.5	0	0.7	0.3	1	1.6	0	0	0	0	0	0	0	0	0	0
R	*Spyridia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Stenogramme interrupta*	0	0	0	0	0.2	0	0	0	0.4	3.3	0	0.2	0	0	0.6	0	0.4	0	0.4	0	0.4	0	1	0
R	*Synarthrophyton patena*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	1.4	0	0	0	0	0
R	*Trematocarpus concinnus*	0	0	0	0	0	0	0	0	2.8	0	0	0	0	0	0	0	0	0	6.6	0	0	0	0	0
R	Turfing red	6.4	6.6	0.4	2.5	0	6	9.6	0	0.6	2.6	1.7	0	0	0	0	0	0	0	0	0	11.6	0.2	3.6	17.2

Group	Species	21.5.5	21.6.5	21.7.5	21.8.5	21.9.5	22.1.5	22.10.5	22.11.5	22.2.5	22.3.5	22.4.5	22.5.5	22.6.5	22.7.5	22.8.5	22.9.5	23.1.5	23.2.5	23.3.10	24.1.10	24.1.5	24.2.5	24.3.5	24.4.10
Red algae cont…																									
R	*Lenormandia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.1	0
R	*Lomentaria australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lophothalia hormoclados*	0	0	0	0	0	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia abscissa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia concinna*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia obtusata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metagoniolithon radiatum*	2.8	3.2	6.5	0	6.8	5	0	0	7.3	1.2	11.8	6.6	16	0	0	0	0	0	0	0	0	0	0	0
R	*Metagoniolithon stelliferum*	0	0	0	0	0	0	7	0	0	0	0	3.1	0	0	0	1.4	0	0	0	0	0	0	0	0
R	*Metamastophora flabellata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Mychodea carnosa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Myriogramme gunniana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nitospinosa tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nizymenia australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0
R	Other structural corallines	0.6	0	0	8.8	12.3	0	0.4	47.3	0	32.2	28.4	1.4	0	30.2	0.3	16.2	0.8	0	15.5	6.6	0	3.1	20.6	0
R	Other thallose red algae	0	0	1.9	1	1.5	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	1.4	0	0	6.3
R	*Peltasta australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Perithalia like red algae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Peyssonnelia flat	25.4	13	19.2	18.2	2.9	4.3	1.4	0.2	4.9	5	8.3	2.4	6.2	10.4	0	4.4	2.4	5.3	11.2	5.2	3.4	2.8	2.4	6.5
R	*Peyssonnelia novaehollandiae*	3.4	0	0.3	0	0.4	0	0	0.2	0	0.4	8.2	0	0	1.2	0	0	0	0	0	0	0	0	0	0.1
R	*Phacelocarpos sessilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus alatus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus apodus*	0	0	0	0	11	0	0	0	0	0	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus peperocarpus*	0	2.6	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0
R	*Phacelocarpus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0
R	*Phymatolithon masonianum*	0	0	0	0	0	0	0	0	0.3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium angustum*	0	5.1	3.3	0.6	2.2	0	0	0	0	1.6	0.6	0	0	0.1	1.1	1.4	0.7	0	0.3	2.5	0.2	0	0.6	0.1
R	*Plocamium cartilagineum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium costatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium dilatatum*	0	2.3	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0
R	*Plocamium leptophyllum*	0	0	0.3	1.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	1	0.1	0.2	0	0.2
R	*Plocamium mertensii*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium patagiatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Polyopes constricta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	4.7	1.7	8.5	7.1
R	*Polysiphonia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia capillacea*	0	0.1	0	1.4	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0
R	*Ptilonia sublifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Red cabbage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodopeltis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia obtusa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0.8	1.4	0	1.2	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0.3	0	0	0
R	*Solieria robusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Sonderopelta coriacea*	0	0	0	0	0	0	0	0	0	0	0.6	0	0.4	0	0	0	0	0	0	0	0	0	0	0
R	*Spyridia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Stenogramme interrupta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0.7	0.8	0.6	0.2
R	*Synarthrophyton patena*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2	0	0	0.3	0
R	*Trematocarpus concinnus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Turfing red	0.4	0	0	1.2	0	0	0	0	0.1	0	0	0.6	0	0	0	0	0	0	0	3.8	7.5	5.1	4.6	3.4

Group	Species	24.5.10	24.6.5	4.3.5	4.4.5	4.5.5	4.6.5	6.1.5	6.2.5	6.3.5	6.4.5	6.5.5	6.7.5	7.1.5	7.2.5	7.3.5	7.4.5	7.5.5	7.6.5	7.7.10	7.8.10	7.9.10	8.1.5	8.10.5	8.11.5
Red algae cont…																									
R	*Lenormandia* spp.	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lomentaria australis*	0	0	0	0	0	9.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lophothalia hormoclados*	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	4.9	0	1.1	0	2.9	0	0.6	0
R	*Melanthalia abscissa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia concinna*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia obtusata*	0	0	1.1	0	0	0	0.3	0	0	0	0	0	2	0	0.6	0	0	0	0	0.6	0	0	0	0
R	*Melanthalia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metagoniolithon radiatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8.8
R	*Metagoniolithon stelliferum*	0	0	0	0	0	0	0	0	0	0	0	0	5.4	0	5.2	3.2	2	0	0	7	0	0	0	3
R	*Metamastophora flabellata*	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.2
R	*Mychodea carnosa*	0	0	1.3	0	0	13.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	3.6	1.6
R	*Myriogramme gunniana*	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nitospinosa tasmanica*	0	0	0	0	0	0	1.3	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nizymenia australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Other structural corallines	0.4	20	0.3	0	0	3.6	0	0	0	0	0	0	2.2	19.9	9.3	8.6	9.1	4.7	9.4	13	7.5	0	40.6	0
R	Other thallose red algae	0	1.8	0	0	0	0	3.7	0.5	2.1	0.2	1.7	0	1.8	0	1.2	0.6	0	0	0	0	0	0.8	0	0
R	*Peltasta australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Perithalia like red algae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8
R	Peyssonnelia flat	6.2	6.7	19.1	16.2	0	32.3	14.3	10.6	9.3	8.9	14.8	0	2.1	0.7	11.9	0	0	6	2.1	15.5	6.6	3.7	3.6	3.6
R	*Peyssonnelia novaehollandiae*	0	0	0	0	0	0	12.3	4.6	4.3	1.6	3.1	0	0	0.1	0.2	0	0.3	0.2	0	0.7	0	0	0	0
R	*Phacelocarpos sessilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus alatus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus apodus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	1.4
R	*Phacelocarpus peperocarpus*	0	0	0	0.4	0	0	0	0.3	1.2	0	0	0	1.4	0	0	0	0	0.2	0	0.4	0	0.6	0	0
R	*Phacelocarpus* spp.	0	0	0	0	0	0	0	0	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phymatolithon masonianum*	0	0	0	0	0	0	1.1	0.6	0.4	3.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium angustum*	0	0.8	0	1.5	0	0	1.3	0	0.1	0.2	2	0	8.5	1.5	3.4	0	0.7	1.5	0	4.5	2.9	0	3.9	2.2
R	*Plocamium cartilagineum*	0	0	0	0	0	0	0	0	0	0	0	0	2.2	0	0	0	0.4	0	0	1.6	0	0	0	0
R	*Plocamium costatum*	0	0	0	1.8	0	0	0	0	0	0	0	0	0.4	0	1.4	0	0	0	0	0	0	0	0	0.8
R	*Plocamium dilatatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0
R	*Plocamium leptophyllum*	0	0	0.6	0.4	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0	0	0	1.4	0	0	0
R	*Plocamium mertensii*	0	0	0	0	0	0	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
R	*Plocamium patagiatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Polyopes constricta*	9.3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0.6
R	*Polysiphonia*	0	0	0	0	0	0	0	0	0	0	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia capillacea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.4
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.4	0	0	0
R	*Pterocladia pinnata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3.8	0
R	*Ptilonia australasica*	0	0	0	0.2	0	0	0	0.1	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia sublifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Red cabbage	0	0	0.9	0	0	0	5.2	0.7	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodopeltis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia obtusa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0
R	*Rhodymenia* spp.	0	0	1	0.2	0	5.4	2.8	0	0.1	0	0	0	0.9	0	0	0	0.5	0.4	0	1	0.2	5	0	3.5
R	*Solieria robusta*	0	0	0	0	0	0	0.2	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Sonderopelta coriacea*	0	0	0	0	0.9	0	5.3	8.1	0	0	4.2	0	0	0	0	0	0	0	0	0	0	0.2	0	0
R	*Spyridia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Stenogramme interrupta*	0	0	0.3	0.2	0	0	0.3	0	0	0	1.2	0	0	0	0.8	0	0	0	0	0.4	0	0	0	0
R	*Synarthrophyton patena*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6
R	*Thamnoclonium dichotomum*	0	0	0	0	1.2	0	3.5	0.3	0	0.2	0.8	0.6	0	0	0	0	0	0	0.2	0	0.8	0	0	0
R	*Trematocarpus concinnus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Turfing red	1	6.6	0	0.6	0	0	0	0	0	0	0	0	0	1.2	2.8	0	1	0	0.7	8	13.7	0	7	14

Group	Species	8.12.8/4	8.2.5	8.3.5	8.4.5	8.5.5	8.6.5	8.7.10	8.8.10	8.9.5	9.1.5	9.10.10	9.11.10	9.12.5	9.13.10	9.14.5	9.15.5	9.16.5	9.17.10	9.18.10	9.19.10	9.2.5	9.3.5	9.4.5	9.5.5
Red algae cont…																									
R	*Lenormandia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lomentaria australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Lophothalia hormoclados*	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0
R	*Melanthalia abscissa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia concinna*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Melanthalia obtusata*	0	0	0	0	0	0.7	0.6	1.4	0	0	0	0	0	0	0	0	0	0	0.4	0	0	1.6	0	0
R	*Melanthalia* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Metagoniolithon radiatum*	0	13.2	6.4	17.4	5.8	7.8	10.6	0	13.8	2.6	0	0	0	0	0	0	0	0	0	1.4	0	0	0	0
R	*Metagoniolithon stelliferum*	0	0	0	0	1.2	0	0	4	0	0.2	0.6	0.8	0	0.2	5.5	1.8	5	1.8	1.2	2.8	0.8	1	0	0.2
R	*Metamastophora flabellata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Mychodea carnosa*	0	0.4	0	1	1	0	0.2	0	0.6	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0
R	*Myriogramme gunniana*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nitospinosa tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Nizymenia australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Other structural corallines	0	26.6	62.6	20.5	1.2	3.6	5.2	6.4	33.2	11	6.4	7	13.8	5.2	9.6	24	37.2	19.2	24.8	9.6	19.8	36	27	9.8
R	Other thallose red algae	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Peltasta australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Perithalia like red algae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Peyssonnelia flat	0	2.8	3.5	2.4	7	9.3	7	9.2	2.8	0.6	1.4	6.1	7.1	1	0.8	1	1.6	2.4	5.6	2	9	7.7	4.7	6.4
R	*Peyssonnelia novaehollandiae*	0	0.8	0	1.1	0.6	0	0.5	0	0.4	5.8	0.8	0	2.8	1.4	0	0.4	5.4	2.3	0	0	0	1.8	0.8	0
R	*Phacelocarpos sessilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus alatus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus apodus*	0	0	2.8	0	0	0	0	0	0.2	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus peperocarpus*	0	2.6	1.6	0	9	4.2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phacelocarpus* spp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Phymatolithon masonianum*	0	0	0	0	0	0.6	0.2	0	0	0	0	0	0	0	0	0	0	0	0	4.6	1	8	0	0
R	*Plocamium angustum*	0	2.2	2.8	3.2	2.9	2.3	1.4	2.2	1.7	0	0	0	0	0	0.2	0	0	0	0	0	0	1.8	0	0.2
R	*Plocamium cartilagineum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium costatum*	0	0	1.8	0	3.2	2.6	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium dilatatum*	0	0.4	0	2.6	0	0	0.4	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0
R	*Plocamium leptophyllum*	0	2.6	0	0	0.4	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium mertensii*	0	2.7	4.8	0	1.4	0.8	0	0.4	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Plocamium patagiatum*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Polyopes constricta*	0	0	0	0	0	0	0.8	0.4	0	0	0	1.6	0	0	0	0	0	0	0	0	0	0	0	0
R	*Polysiphonia*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia capillacea*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia lucida*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Pterocladia pinnata*	0	0	0.6	0	0	0.8	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia australasica*	0	0	0	0	0.2	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Ptilonia sublifera*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Red cabbage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodoglossum gigartinoides*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodopeltis australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia obtusa*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Rhodymenia* spp.	0	0.4	0	1.9	0.2	1.9	0	6.4	1.4	0	0	0.2	0	0.4	0	0	0	0	0	0.2	0	0	0	0
R	*Solieria robusta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Sonderopelta coriacea*	0	0	0	0	0.2	0.2	0	0	0	0	0	0	0.2	0	0.4	0.8	0	2.4	0	0.4	0.2	0.8	0	0
R	*Spyridia tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Stenogramme interrupta*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Synarthrophyton patena*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Thamnoclonium dichotomum*	0	0	0	0	0	0	0	0	0	0	1.4	0.8	2.4	0	0	0	0	0	1	0	0	0	0	0
R	*Trematocarpus concinnus*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	Turfing red	0	0	0	0	0	0.6	0	0	2.8	6.4	0	0	0	0	0	0	0	0	3	1.2	0	0	1.6	4

Group	Species	9.6.5	9.7.5	9.8.10	9.9.10																			
Red algae cont…																								
R	*Lenormandia* spp.	0	0	0	0																			
R	*Lomentaria australis*	0	0	0	0																			
R	*Lophothalia hormoclados*	0	0	0	0																			
R	*Melanthalia abscissa*	0	0	0	0																			
R	*Melanthalia concinna*	0	0	0	0																			
R	*Melanthalia obtusata*	0	0	0	0																			
R	*Melanthalia* spp.	0	0	0	0																			
R	*Metagoniolithon radiatum*	0	0	0	0																			
R	*Metagoniolithon stelliferum*	0.2	0.8	1.4	0.6																			
R	*Metamastophora flabellata*	0	0	0	0																			
R	*Mychodea carnosa*	0	0.2	0	3.4																			
R	*Myriogramme gunniana*	0	0	0	0																			
R	*Nitospinosa tasmanica*	0	0	0	0																			
R	*Nizymenia australis*	0	0	0	0																			
R	Other structural corallines	27.6	25.6	7.3	14.8																			
R	Other thallose red algae	0	0	0	0																			
R	*Peltasta australis*	0	0	0	0																			
R	Perithalia like red algae	0	0	0	0																			
R	Peyssonnelia flat	10.1	7	0.6	1.4																			
R	*Peyssonnelia novaehollandiae*	0.6	0	1.8	2.8																			
R	*Phacelocarpos sessilis*	0	0	0	0																			
R	*Phacelocarpus alatus*	0	0	0	0																			
R	*Phacelocarpus apodus*	0	0	0	0																			
R	*Phacelocarpus peperocarpus*	0	0	0	0																			
R	*Phacelocarpus* spp.	0	0	0	0																			
R	*Phymatolithon masonianum*	0	0	0	0																			
R	*Plocamium angustum*	0	2.3	0	0.4																			
R	*Plocamium cartilagineum*	0	0	0	0																			
R	*Plocamium costatum*	0	0	0	0																			
R	*Plocamium dilatatum*	0.8	0	0	0																			
R	*Plocamium leptophyllum*	0	0	0	0																			
R	*Plocamium mertensii*	0	0	0	0																			
R	*Plocamium patagiatum*	0	0	0	0																			
R	*Polyopes constricta*	0	0	0	0																			
R	*Polysiphonia*	0	0	0	0																			
R	*Pterocladia capillacea*	0	0	0	0.4																			
R	*Pterocladia lucida*	0	0	0	0																			
R	*Pterocladia pinnata*	0	0	0.4	0																			
R	*Ptilonia australasica*	0	0	0	0																			
R	*Ptilonia sublifera*	0	0	0	0																			
R	Red cabbage	0	0	0	0																			
R	*Rhodoglossum gigartinoides*	0	0	0	0																			
R	*Rhodopeltis australis*	0	0	0	0																			
R	*Rhodymenia obtusa*	0	0	0	0																			
R	*Rhodymenia* spp.	0	0.2	0	0.6																			
R	*Solieria robusta*	0	0	0	0																			
R	*Sonderopelta coriacea*	1.2	0	0	1.6																			
R	*Spyridia tasmanica*	0	0	0	0																			
R	*Stenogramme interrupta*	0	0	0	0																			
R	*Synarthrophyton patena*	0	0	0	0																			
R	*Thamnoclonium dichotomum*	1.4	0	0.5	3																			
R	*Trematocarpus concinnus*	0	0	0	0																			
R	Turfing red	0.6	0	0	0																			

Group	Species	0.1.10	0.1.5	0.3.5	0.4.10	0.7.10	0.8.5	0.9.10	10.1.5	10.2.5	10.3.5	10.4.5	10.5.5	10.6.5	10.7.5	10.8.5	11.1.5	11.10.5	11.11.5	11.12.5	11.2.5	11.3.5	11.4.5	11.7.5	11.8.5
Red algae cont…																									
R	*Webervanbossea tasmanensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Wrangelia nobilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Seagrasses																									
S	*Amphibolis antarctica*	0	0	0	0	0	0	0	3.2	48.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Halophila australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Halophila ovata*	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Heterozostera tasmanica*	0	0	0	0	0	0	0	2.4	7.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Posidonia australis*	0	0	0	0	0	0	0	3.4	39.5	0	0	0	0	0	0	0	0	2.5	0	0	0	0	0	0
Macrocystis																									
Macro	*Macrocystis* plants (number)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	11.9.5	13.1.10	13.1.5	13.10.10	13.11.10	13.2.5	13.3.10	13.4.10	13.5.10	13.6.10	13.7.10	13.8.10	13.9.10	14.1.5	14.10.5	14.11.5	14.12.5	14.2.5	14.3.5	14.4.5	14.5.5	14.6.5	14.7.5	14.8.5
Red algae cont…																									
R	*Webervanbossea tasmanensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Wrangelia nobilis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	2.1	0	0	0	0	0	0	3.3	0
Seagrasses																									
S	*Amphibolis antarctica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10.8	0	0	0	0	0	0	0
S	*Halophila australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Halophila ovata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Heterozostera tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.4	0	0	0	4.1	0	0	0
S	*Posidonia australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macrocystis																									
Macro	*Macrocystis* plants (number)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	14.9.5	17.1.5	17.10.5	17.11.5	17.12.5	17.13.5	17.14.5	17.15.5	17.2.5	17.3.10	17.3.5	17.4.10	17.4.5	17.5.5	17.6.5	17.7.10	17.7.5	17.8.10	17.8.5	17.9.5	18.1.5	18.10.5	18.11.5	18.12.5
Red algae cont…																									
R	*Webervanbossea tasmanensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Wrangelia nobilis*	1.2	0	2.6	0	0.5	0.4	0	0	0	0	0	0	0	0.4	0	0	0	0	0.2	0	0	0	0	0	0
Seagrasses																									
S	*Amphibolis antarctica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Halophila australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Halophila ovata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Heterozostera tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0
S	*Posidonia australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macrocystis																									
Macro	*Macrocystis* plants (number)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.5	12	20	0

Group	Species	18.2.5	18.3.10	18.4.10	18.4.5	18.6.5	18.7.5	18.8.5	18.9.5	19.1.5	19.10.10	19.11.10	19.12.5	19.13.10	19.14.5	19.15.10	19.16.5	19.17.5	19.18.5	19.19.10	19.2.5	19.3.10	19.3.5	19.4.5	19.5.10
Red algae cont…																									
R	*Webervanbossea tasmanensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Wrangelia nobilis*	1.2	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0
Seagrasses																									
S	*Amphibolis antarctica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Halophila australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Halophila ovata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Heterozostera tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Posidonia australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macrocystis																									
Macro	*Macrocystis* plants (number)	0	0	72	228	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Group	Species	19.5.5	19.6.5	19.7.5	19.8.10	19.9.10	2.1.5	2.6.5	2.7.5	20.1.5	20.10.10	20.11.10	20.12.10	20.13.10	20.2.10	20.5.10	20.6.10	20.7.10	20.8.10	20.9.10	21.13.5	21.14.5	21.15.5	21.16.10	21.4.5
Red algae cont…																									
R	*Webervanbossea tasmanensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Wrangelia nobilis*	0.1	0	0	0	0	0.1	0	0	0	0	0	0	0	4.7	0	0	0.4	0	0	0	0	0	0	0	0
Seagrasses																									
S	*Amphibolis antarctica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Halophila australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Halophila ovata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Heterozostera tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Posidonia australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macrocystis																									
Macro	*Macrocystis* plants (number)	0	0	0	0	0	0	0	0	0	0	62	59	0	47	37	0	0	5	0	0	0	0	0	0	0

Group	Species	21.5.5	21.6.5	21.7.5	21.8.5	21.9.5	22.1.5	22.10.5	22.11.5	22.2.5	22.3.5	22.4.5	22.5.5	22.6.5	22.7.5	22.8.5	22.9.5	23.1.5	23.2.5	23.3.10	24.1.10	24.1.5	24.2.5	24.3.5	24.4.10
Red algae cont…																									
R	*Webervanbossea tasmanensis*	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Wrangelia nobilis*	0	0	0	0.2	0	0	0	0	0	0	0	1.2	0	0	0	2.6	0	0	0	0	0	7.5	0	0	0
Seagrasses																									
S	*Amphibolis antarctica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43.2	12.1	0	0	0	0	0	0	0	0	0
S	*Halophila australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Halophila ovata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Heterozostera tasmanica*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.3	0	0	0	0	0	0	0	0	0	0
S	*Posidonia australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0
Macrocystis																									
Macro	*Macrocystis* plants (number)	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	177.5	35	11	0	132	1	0	0

Group	Species	24.5.10	24.6.5	4.3.5	4.4.5	4.5.5	4.6.5	6.1.5	6.2.5	6.3.5	6.4.5	6.5.5	6.7.5	7.1.5	7.2.5	7.3.5	7.4.5	7.5.5	7.6.5	7.7.10	7.8.10	7.9.10	8.1.5	8.10.5	8.11.5
Red algae cont…																									
R	*Webervanbossea tasmanensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Wrangelia nobilis*	0	0	0	0	0	4.2	0	0	0	0	0	0	0.2	0	0	0	0.4	1	0	0	0	0	0	0.4
Seagrasses																									
S	*Amphibolis antarctica*	0	0	0	0	0	0	0	0	0	0	0	0	0	15.6	0	30.8	4.8	0	0.3	0	0	0	0.4	0
S	*Halophila australis*	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Halophila ovata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Heterozostera tasmanica*	0	0	0	0	1.1	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.4	0.6
S	*Posidonia australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.4	0	0	0	0	0	0	0	0
Macrocystis																									
Macro	*Macrocystis* plants (number)	0	88	0	1	0	0	3	80	3	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0

Group	Species	8.12.8/4	8.2.5	8.3.5	8.4.5	8.5.5	8.6.5	8.7.10	8.8.10	8.9.5	9.1.5	9.10.10	9.11.10	9.12.5	9.13.10	9.14.5	9.15.5	9.16.5	9.17.10	9.18.10	9.19.10	9.2.5	9.3.5	9.4.5	9.5.5
Red algae cont…																									
R	*Webervanbossea tasmanensis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R	*Wrangelia nobilis*	0	0	0	0.2	0	0	0	0	0.6	1.2	34.8	3.9	17.1	34.8	0	15.3	3.6	1.8	4.8	3.8	0	0	0	0
Seagrasses																									
S	*Amphibolis antarctica*	0	0	0	7.2	0	0	0	0	0	0	0	0	0	0	3.6	0	0	0	0	0	0	0	0	0
S	*Halophila australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Halophila ovata*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Heterozostera tasmanica*	0	0	0	7.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S	*Posidonia australis*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macrocystis																									
Macro	*Macrocystis* plants (number)	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0

Group	Species	9.6.5	9.7.5	9.8.10	9.9.10																				
Red algae cont…		9.6.5	9.7.5	9.8.10	9.9.10																				
R	*Webervanbossea tasmanensis*	0	0	0	0																				
R	*Wrangelia nobilis*	0	0	11.3	9.1																				
Seagrasses																									
S	*Amphibolis antarctica*	0	0	0	0																				
S	*Halophila australis*	0	0	0	0																				
S	*Halophila ovata*	0	0	0	0																				
S	*Heterozostera tasmanica*	0	0	0	0																				
S	*Posidonia australis*	0	0	0	0																				
Macrocystis																									
Macro	*Macrocystis* plants (number)	0	0	0	0																				