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Conservation status of indigenous marine invertebrates in Aotearoa New Zealand, 2021

Greig Funnell, Dennis Gordon, Daniel Leduc, Troy Makan, Bruce A. Marshall, Sadie Mills,
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Department of
Conservation
Te Papa Atawhai



**Te Kāwanatanga
o Aotearoa**
New Zealand Government

Cover: Red coral (*Errina novaezelandiae*; At Risk - Declining) in the Fiordland Marine Area. Photo: Steve Wing

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Abstract

The conservation status of 786 indigenous marine invertebrate taxa in Aotearoa New Zealand was assessed using the New Zealand Threat Classification System (NZTCS). A list of these taxa is presented, along with a statistical summary and brief notes on the most important changes. This list replaces all previous NZTCS lists for indigenous marine invertebrates. In total, 10 taxa (1.3%) were assessed as being Threatened, 439 (55.9%) as At Risk and 85 (10.8%) as Not Threatened. A further 252 taxa (32.1%) were assessed as Data Deficient (i.e. insufficient information was available to assess their conservation status). Of the 786 indigenous marine invertebrate taxa assessed, 105 (13.4%) have not been formally described and named.

Keywords: amphipod, bryozoan, conservation status, coral, crustacean, mollusc, nematode, sea cucumber, sea snail, sponge, starfish

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1. Background

The New Zealand Threat Classification System (NZTCS) was developed in 2002 to complement the International Union for Conservation of Nature (IUCN) Red List system. Categories and criteria were defined to reflect Aotearoa New Zealand's unique environments and to account for the country's relatively small size and diversity of ecosystems, as well as the large number of taxa with naturally restricted ranges and/or small population sizes (Molloy et al. 2002). The NZTCS methodology was refined in 2007 to ensure that all possible combinations of status and trend were covered within the different categories. The resulting manual (Townsend et al. 2008) was used to assess taxa of marine invertebrates within the New Zealand Exclusive Economic Zone (EEZ) in 2009 (Freeman et al. 2010), 2013 (Freeman et al. 2014) and the present assessment, which also incorporated the additional qualifiers proposed by Rolfe et al. (2021).

NZTCS assessments are reviewed on average every 5 years by a panel of experts from the Department of Conservation Te Papa Atawhai (DOC) and external agencies. This assessment is the latest update in a regular series of re-assessments. For this assessment, the expert panel consisted of nine experts, plus three administration/support staff, and all but one of the experts were employees of organisations external to DOC. The expert panel met between 2019 and 2021. Notes from these meetings, rationale for the reclassification of taxa and data from this assessment are available on the NZTCS website at <https://nztcs.org.nz/reports/1077>.

An information gathering process complements the knowledge provided by members of the expert panel and is open to all persons wishing to provide expert scientific information to assist the review of the assessment. A call for information is advertised through DOC's 'Have your say' process (<https://www.doc.govt.nz/marine-invertebrates-consultation>), the NZTCS website and expert networks, and a questionnaire is provided to assist with gathering relevant data - for example, from local surveys and monitoring.

In making their assessments, experts consider the previously published assessment as the starting point for the new assessment and evaluate any new information that is provided during the consultation period. Marine invertebrates were first assessed using the NZTCS in 2002 (Hitchmough 2002), and subsequently in 2005 (Hitchmough et al. 2007), 2009 (Freeman et al. 2010) and 2013 (Freeman et al. 2014). Taxa are assessed according to the reported changes in population size and trend since the last assessment and the predicted future changes over the next 10 years or three generations, whichever is the longest. Taxa are assigned to the Data Deficient category when insufficient data are available to assess conservation status, or are given the qualifiers Data Poor Size and Data Poor Trend when assessments are made but with low confidence due to limited data being available.

Several taxa of marine invertebrates are known from a limited number of specimens held in collections, and many of the distribution records lie within the extensive deep-sea portions of the New Zealand region. In this report, all taxa with less than 10 records are listed as Data Deficient. In addition, 92% of the assessments that successfully assigned a taxon to a threat category (Threatened, At Risk or Not Threatened) were based on area of occupancy. The distribution of a taxon was derived from the mapping of sample records, its abundance was estimated from the number of specimens per sample and the area of occupancy was derived from the current understanding of available habitat found within its known distribution range. Confidence in all three of these estimates was low (expert opinion) to medium (limited data), so caution was applied in interpreting them, particularly for taxa that have a naturally sparse or restricted distribution in the seascape, as threats are more likely to affect all or most of the limited distribution of these taxa within a given timeframe (IUCN Standards and Petitions Committee 2019), elevating risks. Therefore, the panel used a precautionary approach when assessing these taxa, applying the higher (more threatened) status.

2. Summary

In 2013, Freeman et al. (2014) assessed the conservation status of 414 taxa of indigenous marine invertebrates in Aotearoa New Zealand using the criteria specified in the NZTCS manual (Townsend et al. 2008). Here, we report on a new assessment of 681 taxa belonging to 10 different phyla (Table 1) and an additional 105 taxonomically unresolved taxa (taxa that are either undescribed or their taxonomic status is uncertain).

Table 1. Phyla assessed in this report.

PHYLUM	COMMON NAME	NO. TAXA IN 2010* AND 2013†	NO. TAXA IN 2021	NO. TAXA ASSESSED FOR THE FIRST TIME
Annelida	ringed worms /segmented worms	4	6	2
Arthropoda	crustaceans	38	186	149
Brachiopoda	lamp shells	1	2	1
Bryozoa	moss animals	7	36	29
Chordata	sea squirts	0	2	2
Cnidaria	corals	74	101	29
Echinodermata	sea stars, sea urchins, sea cucumbers	7	27	20
Mollusca	sea snails	262	286	25
Nematoda	marine nematodes	3*	63	60
Porifera	sponges	21	77	56
Total		417†	786	373

* Three species of marine nematodes that were assessed with other nematode species in 2010 (Yeates et al. 2012) are included in this report. These species are *Aponema subtile* Leduc & Wharton, 2008, *Sabatieria annulata* Leduc & Wharton, 2008 and *Southerniella simplex* Allgén, 1932.

† Freeman et al. (2014) reported on 415 taxa. One species, *Cyclopecten kermadecensis* (E.A. Smith, 1885), was listed twice in the 2014 publication, as Data Deficient and as At Risk – Naturally Uncommon. The assessment as At Risk – Naturally Uncommon is considered the final 2013 assessment for this species and the total number of taxa assessed in 2013 is adjusted accordingly throughout this report.

2.1 Changes to the list of taxa

Three taxa assessed in 2013 (Freeman et al. 2014) were not included in this report: the bamboo corals *Primnoisis antarctica* (Studer, 1878) and *Echinosis spicata* (Hickson, 1907), and the crab *Notopoides latus* Henderson, 1888. This is because all three taxa are now considered absent from New Zealand waters (as defined by the boundaries of the EEZ). All specimens of *P. antarctica* and *E. spicata* were collected in the Australian waters of Macquarie Ridge, mostly during the ‘MacRidge 2’ research voyage TAN0803 (Rowden 2008), while *N. latus* was recorded on Norfolk Island (Australia) in 1975 and is known to occur in French Polynesia and the Philippines.

Five marine species of caddisflies (family Chathamidae) are known from Aotearoa New Zealand but were not included in this assessment because they were assessed and reported on with other species of caddisflies in ‘Conservation status of New Zealand freshwater invertebrates, 2018’ (Grainger et al. 2018). These species are *Chathamia brevipennis* Tillyard, 1925 (At Risk – Naturally Uncommon (IE, RR)), *Chathamia integripennis* Riek, 1976 (Not Threatened), *Philanisus fasciatus* Riek, 1976 (At Risk – Naturally Uncommon (IE, RR)), *Philanisus mataua* Ward, 1995 (At Risk – Naturally Uncommon) and *Philanisus plebeius* Walker, 1852 (Not Threatened).

Three species of marine nematodes that were assessed with other nematode species in 2010 (Yeates et al. 2012) are included in this report. These species are *Aponema subtile* Leduc & Wharton, 2008, *Sabatieria annulata* Leduc & Wharton, 2008 and *Southerniella simplex* Allgén, 1932.

The addition of 373 taxa (Table 1) and changes to the names of 15 taxa (Table 2) reflect the results of ongoing research. Names for the new listings included in this report can be found in the assessment table in section 3.1. Twenty years have passed since the New Zealand Inventory of Biodiversity was initiated within the global Species 2000 project, which culminated in the publication of three volumes reviewing Aotearoa New Zealand's entire known species of animals, plants, fungi and microorganisms, covering all life in all environments, from the Cambrian to the present day (Gordon 2009, 2010, 2012). Taxonomic experts at the National Institute of Water and Atmospheric Research (NIWA), Museum of New Zealand Te Papa Tongarewa, Tāmaki Paenga Hira Auckland War Memorial Museum, University of Otago, GNS Science and overseas institutions, as well as independent taxonomists have commenced the enormous task of updating the inventory of marine biota in Aotearoa New Zealand and summarising the status of knowledge to 2020, in preparation for publication in a NIWA Biodiversity Memoir in around 2023. The completed and updated checklists of marine taxa will be available online as a supplementary dataset upon publication, making it available to national and international databases such as the World Register of Marine Species (WoRMS), and will be able to inform the NZTCS revision of marine invertebrates in 2026.

Table 2. Name changes affecting marine invertebrate species in Aotearoa New Zealand between 2013 and this report.

NAME AND AUTHORITY IN 2013	NAME AND AUTHORITY IN THIS REPORT	COMMON NAME
Cnidaria		
<i>Enallopsammia</i> cf. <i>maranzelleri</i> Zibrowius, 1973	<i>Enallopsammia pusilla</i> (Alcock, 1902)	stony branching coral
<i>Errina hicksoni</i> Cairns, 1991	<i>Errina australis</i> Cairns & Zibrowius, 2013	red hydrocoral
<i>Keratoisis</i> n. sp.	<i>Keratoisis magnifica</i> Dueñas, Alderslade & Sáchez, 2014	bamboo coral
<i>Primnoisis</i> sp. C	<i>Primnoisis niwa</i> Moore, Alderslade & Miller, 2016	bamboo coral
Mollusca		
<i>Asterophila</i> sp. Warén & Lewis, 1994	<i>Asterophila</i> sp. 1	sea snail
<i>Bathymodiolus tangaroa</i> Cosel & B.A. Marshall, 2003	<i>Gigantidas tangaroa</i> (Cosel & B.A. Marshall, 2003)	giant seep mussel
<i>Buccipagoda</i> sp. (NZOI TAN107.136)	<i>Buccipagoda achilles</i> B.A. Marshall & Walton, 2018	Achilles whelk
<i>Calliostoma antipodense</i> B.A. Marshall, 1996	<i>Maurea antipodensis</i> (B.A. Marshall, 1995)	top snail
<i>Calliostoma benthicola</i> (Dell, 1950)	<i>Maurea benthicola</i> (Dell, 1950)	top snail
<i>Calliostoma eminens</i> B.A. Marshall, 1996	<i>Maurea eminens</i> (B.A. Marshall, 1995)	top shell
<i>Calliostoma gendalli</i> B.A. Marshall, 1980	<i>Tristichotrochus gendalli</i> (B.A. Marshall, 1979)	top shell
<i>Calliostoma gibbsorum</i> B.A. Marshall, 1996	<i>Maurea gibbsorum</i> (B.A. Marshall, 1995)	top shell
<i>Calliostoma jamiesoni</i> B.A. Marshall, 1996	<i>Maurea jamiesoni</i> (B.A. Marshall, 1995)	top shell
<i>Calliostoma turnerarum</i> (Powell, 1964)	<i>Maurea turnerarum</i> Powell, 1964	top snail
<i>Calyptogena</i> spp. (NZOI)	<i>Calyptogena tuerkayi</i> Krylova & R. Janssen, 2006	giant seep clam

2.2 Trends

Of the 786 taxa assessed in this report, 10 (1.3%) are Threatened, 439 (55.9%) are At Risk of becoming Threatened and 85 (10.8%) are Not Threatened (Table 3). A total of 252 taxa (32.1%) are assessed as Data Deficient.

The conservation status of 17 taxa has changed since the 2013 assessment (Freeman et al. 2014) because of increased knowledge about the state of populations (3 taxa) and reinterpretation of the data used for previous assessments (14 taxa), with 4 having improved in status, 5 having worsened and the remaining 8 having neutral changes into or out of Data Deficient (Tables 4 & 5). New information on three taxa of sea fans that were previously assessed as Data Deficient was sufficient to determine their conservation status in this assessment (Table 5): *Narelloides crinitus* Cairns, 2012 is assessed At Risk – Naturally Uncommon, and *Metanarella nannolepis* Cairns, 2012 and *Calyptrophora diaphana* Cairns, 2012 are assessed as Not Threatened.

The status of the bamboo coral *Chathamisis bayeri* Grant, 1976 has changed from Threatened – Nationally Vulnerable to At Risk – Declining (Table 5). In the previous assessment, *C. bayeri* was understood to be confined to the Chatham Rise, but since then, three new records from the Bay of Plenty have increased the species’ area of occupancy. However, the species is still assessed as having a declining population because it continues to be impacted by fishing activities (trawling and longlining).

Of the 373 newly listed taxa, 11 (2.9%) are At Risk – Declining, 110 (29.5%) are At Risk – Naturally Uncommon, 60 (16.1%) are Not Threatened and 192 (51.5%) are Data Deficient (Table 5).

Table 3. Comparison of the status of marine invertebrate taxa in Aotearoa New Zealand assessed in 2010 (Yeates et al. 2012), 2013 (Freeman et al. 2014) and 2021 (this report).

CATEGORY	2010 AND 2013	2021
Data Deficient	60*	252
Threatened – Nationally Critical	6	6
Threatened – Nationally Endangered	1	1
Threatened – Nationally Vulnerable	4	3
At Risk – Declining	21	38
At Risk – Naturally Uncommon	303	401
Not Threatened	22†	85
Total	417	786

* See explanation in the footnotes to Table 1.

† Three species of marine nematodes were assessed as Not Threatened in 2010 (Yeates et al. 2012).

Table 4. Summary of changes to the number of taxa in each conservation status between 2013 (Freeman et al. 2014) and 2021 (this report). A ‘neutral’ change is any movement into or out of Data Deficient.

TYPE OF CHANGE, REASON, CONSERVATION STATUS	NO. TAXONOMICALLY DETERMINATE TAXA	NO. TAXONOMICALLY UNRESOLVED TAXA	TOTAL NO. TAXA
BETTER	4		4
More knowledge	2		2
Not Threatened	2		2
Reinterpretation of data	2		2
At Risk – Declining	1		1
Not Threatened	1		1
WORSE	4	1	5
Reinterpretation of data	4	1	5
At Risk – Declining	4	1	5
NO CHANGE	296	100	396
Data Deficient	51	4	55
Threatened – Nationally Critical	6		6
Threatened – Nationally Endangered	1		1
Threatened – Nationally Vulnerable	3		3
At Risk – Declining	15	6	21
At Risk – Naturally Uncommon	200	90	290
Not Threatened	20		20
NEUTRAL	7	1	8
More knowledge	1		1
Not Threatened	1		1

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Table 4 continued

TYPE OF CHANGE, REASON, CONSERVATION STATUS	NO. TAXONOMICALLY DETERMINATE TAXA	NO. TAXONOMICALLY UNRESOLVED TAXA	TOTAL NO. TAXA
Reinterpretation of data	6	1	7
Data Deficient	4	1	5
At Risk – Naturally Uncommon	1		1
Not Threatened	1		1
NEW LISTING	370	3	373
Data Deficient	191	1	192
At Risk – Declining	11		11
At Risk – Naturally Uncommon	109	1	110
Not Threatened	59	1	60
TOTAL	681	105	786

Table 5. Summary of status changes of marine invertebrate taxa between 2013 (data in rows; Freeman et al. 2014) and 2021 (data in columns; this report). Numbers to the right of the diagonal (shaded green) indicate an improved status (e.g. one taxon has moved from Threatened – Nationally Vulnerable in 2013 to At Risk – Declining in 2021), numbers to the left of the diagonal (shaded pink) indicate a poorer status, numbers on the diagonal (shaded black) have not changed, and numbers without shading are taxa that either have moved into or out of Data Deficient, have been added to this assessment, or were not assessed (NA) in this report.

		CONSERVATION STATUS 2021								
		Total	DD	NC	NE	NV	Dec	NU	NT	NA*
		789	252	6	1	3	38	401	85	3
CONSERVATION STATUS 2013	Data Deficient (DD)	60	55					1	2	2
	Threatened – Nationally Critical (NC)	6		6						
	Threatened – Nationally Endangered (NE)	1			1					
	Threatened – Nationally Vulnerable (NV)	4				3	1			
	At Risk – Declining (Dec)	21					21			
	At Risk – Naturally Uncommon (NU)	302†	3				5	290	3	1
	Not Threatened (NT)	22	2						20	
	Not listed	373	192				11	110	60	

* NA = not assessed. These taxa were *Primnois antarctica* (Studer, 1878), *Notopoides latus* Henderson, 1888 and *Echinisis spicata* (Hickson, 1907).

† Freeman et al. (2014) reported 303 taxa being assessed as At Risk – Naturally Uncommon. The caddisfly *Philanisus fasciatus* Riek, 1976 was listed as a marine invertebrate in 2009 and 2013; however, this species has also been listed as a freshwater invertebrate since 2010 and its current conservation status is reported in Grainger et al. (2018). Therefore, this taxon was not included in this analysis.

3. Conservation status of 786 taxa of marine invertebrates in Aotearoa New Zealand

3.1 Assessments

Taxa were assessed according to the criteria of Townsend et al. (2008) and have been grouped in Table 6 by conservation status and then alphabetically by scientific name. Data Deficient appears at the top of the list. Categories are then ordered by descending degree of loss, with Threatened at the top and Not Threatened at the bottom.

Brief descriptions of the NZTCS categories and criteria are provided in section 3.2. See Townsend et al. (2008) and Rolfe et al. (2021) for full definitions of categories, criteria and qualifiers, and an explanation of the assessment process.

The full data for the assessments listed in Table 6 can be viewed and downloaded at <https://nztns.org.nz/reports/1077>.

Table 6. Conservation status of 786 taxa of indigenous marine invertebrates in Aotearoa New Zealand.

Qualifiers are abbreviated as follow: CD = Conservation Dependent, CI = Climate Impact, CR = Conservation Research Needed, De = Designated, DPR = Data Poor Recognition, DPS = Data Poor Size, DPT = Data Poor Trend, OL = One Location, PD = Partial Decline, PF = Population Fragmentation, RR = Range Restricted, S?O = Secure? Overseas, SO = Secure Overseas, SO? = Secure Overseas?, Sp = Sparse, St = Stable.

ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
DATA DEFICIENT (252)					
Taxonomically determinate (246)					
Annelida (4)					
<i>Acromegalomma suspiciens</i> (Ehlers, 1904)	polychaete worm	Sabellidae		DPS, DPT	New listing
<i>Hartmanonuphis pectinata</i> (Knox & Hicks, 1973)	polychaete worm	Onuphidae			No change
<i>Megasyllis eduardoi</i> San Martín, Aguado & Álvarez-Campos, 2014	polychaete worm	Syllidae		DPS, DPT	New listing
<i>Scoletoma lynnei</i> (Knox, 1951)	polychaete worm	Lumbrineridae			No change
Arthropoda (68)					
<i>Aplatysypus neozealanicus</i> Gerken, 2018	comma shrimp	Lamproidea		DPS, DPT	New listing
<i>Apocuma chathamensis</i> Gerken, 2013	comma shrimp	Bodotriidae		DPS, DPT	New listing
<i>Apocuma sculpta</i> Gerken, 2013	comma shrimp	Bodotriidae		DPS, DPT	New listing
<i>Bathysquilla microps</i> (Manning, 1961)	mantis shrimp	Bathysquillidae		DPR, DPS, SO	No change
<i>Bruzelia erikae</i> Lörz & Coleman, 2013	marine amphipod	Synopiidae		DPR, DPS	New listing
<i>Bruzelia junkeri</i> Lörz & Coleman, 2013	marine amphipod	Synopiidae		DPS, DPT	New listing
<i>Bruzelia vogeli</i> Lörz & Coleman, 2013	marine amphipod	Synopiidae		DPS, DPT	New listing
<i>Cancellus laticoxa</i> Forest & McLaughlin, 2000	hermit crab	Diogenidae		DPS, DPT, OL	No change
<i>Cestopogurus hinepuia</i> Komai, Tsuchida & Clark, 2014	hermit crab	Paguridae		DPS, DPT, OL	New listing
<i>Chionelasmus crosnieri</i> Buckeridge, 1998	barnacle	Chionelasmatidae		DPS, DPT	No change
<i>Cyclaspis petrescui</i> Gerken, 2013	comma shrimp	Bodotriidae		Sp	New listing
<i>Diastylis curtain</i> Gerken, 2015	comma shrimp	Diastylidae		DPS, DPT, OL	New listing
<i>Diastylis dasys</i> Gerken, 2015	comma shrimp	Diastylidae		DPS, DPT, OL	New listing
<i>Diastylis enodis</i> Gerken, 2015	comma shrimp	Diastylidae		Sp, DPS, DPT, RR	New listing
<i>Diastylis hormoacanthus</i> Gerken, 2015	comma shrimp	Diastylidae		DPS, DPT, OL	New listing
<i>Diastylis implanus</i> Gerken, 2015	comma shrimp	Diastylidae		DPS, DPT, OL	New listing
<i>Epimeria emma</i> Lörz & Coleman, 2014	marine amphipod	Epimeriidae		DPS, DPT	New listing
<i>Epimeria sophie</i> Lörz & Coleman, 2014	marine amphipod	Epimeriidae		DPS, DPT	New listing
<i>Eumunida australis</i> de Saint Laurent & Macpherson, 1990	squat lobster	Eumunididae		Sp	New listing
<i>Exampithoe plumosa</i> Peart & Lörz, 2018	marine amphipod	Amphithoidae		DPS, DPT	New listing
<i>Exampithoe taylori</i> Hughes & Peart, 2015	marine amphipod	Amphithoidae		DPS, DPT	New listing

Continued on next page

Table 6 continued

ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Farraglamprops seminalis</i> Gerken, 2018	comma shrimp	Lampropiidae		Sp, DPS, DPT	New listing
<i>Gonodactylellus osheai</i> Ahyong, 2012	mantis shrimp	Gonodactylidae		Sp, RR	No change
<i>Gynodiastylis chathamensis</i> Gerken, 2015	comma shrimp	Gynodiastylidae		Sp, DPS, DPT, RR	New listing
<i>Heterosquilla trifida</i> Ahyong, 2012	mantis shrimp	Tetrasquillidae		DPS, DPT, RR, Sp	No change
<i>Labriphimedia martiniae</i> Coleman & Lörz, 2013	marine amphipod	Iphimediidae		DPS, DPT, OL	New listing
<i>Labriphimedia meikae</i> Coleman & Lörz, 2013	marine amphipod	Iphimediidae		DPS, DPT, OL	New listing
<i>Leptostylis wisniewskiae</i> Gerken, 2015	comma shrimp	Diastylidae		DPS, DPT, OL	New listing
<i>Lithodes jessica</i> Ahyong, 2010	king crab	Lithodidae		RR, Sp	No change
<i>Munidopsis bamberi</i> Schnabel & Ahyong, 2015	squat lobster	Munidopsidae		OL	New listing
<i>Munidopsis kareenae</i> Ahyong, 2013	squat lobster	Munidopsidae		OL	New listing
<i>Munidopsis sculpo</i> Schnabel & Ahyong, 2015	squat lobster	Munidopsidae		OL	New listing
<i>Nautilocaris saintaurentae</i> Komai & Segonzac, 2004	vent shrimp	Alvinocarididae		DPS, DPT, PF, RR, SO	No change
<i>Nicippe rogeri</i> Lörz & Schnabel, 2015	marine amphipod	Pardaliscidae		OL	New listing
<i>Oedicerina loerzae</i> Coleman & Thurston, 2014	marine amphipod	Oedicerotidae		DPS, DPT, RR	New listing
<i>Paralomis staplesi</i> Ahyong, 2010	king crab	Lithodidae		Sp	No change
<i>Paralomis webberi</i> Ahyong, 2010	king crab	Lithodidae		OL, RR, Sp	No change
<i>Paraplatysympus aspericristatus</i> Gerken, 2018	comma shrimp	Lampropiidae		DPS, DPT	New listing
<i>Paratanais caterae</i> Bird & Bamber, 2013	tanaid shrimp	Paratanaididae		DPS, DPT, OL, RR	New listing
<i>Paratanais hamulus</i> Bird & Bamber, 2013	tanaid shrimp	Paratanaididae		Sp, DPS, DPT, RR	New listing
<i>Paratanais incomptus</i> Bird & Bamber, 2013	tanaid shrimp	Paratanaididae		Sp, DPS, DPT, RR	New listing
<i>Pentaparatanais laevis</i> Bird & Bamber, 2013	tanaid shrimp	Paratanaididae		Sp, DPS, DPT, RR	New listing
<i>Platyphlops bamberi</i> Gerken, 2018	comma shrimp	Lampropiidae		DPS, DPT, OL	New listing
<i>Pseudopleonexes evensii</i> Peart & Lörz, 2018	marine amphipod	Amphithoidae		DPS, DPT	New listing
<i>Quasiparalamprops chathamensis</i> Gerken, 2018	comma shrimp	Lampropiidae		Sp, De, OL	New listing
<i>Sunamphitoe mixtura</i> Peart, 2017	marine amphipod	Amphithoidae		DPS, DPT, OL	New listing
<i>Syrthoe sadiiae</i> Lörz & Coleman, 2013	marine amphipod	Synopiidae		DPS, DPT, OL	New listing
<i>Syrrhoites renatae</i> Lörz & Coleman, 2013	marine amphipod	Synopiidae		DPS, DPT	New listing
<i>Takereana festiva</i> (Chilton, 1885)	amphipod	Idoteidae		DPS, DPT	New listing
<i>Urotychus anomalus</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, RR	New listing
<i>Urotychus havre</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, OL	New listing
<i>Urotychus helenae</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus kaitara</i> Schnabel, 2009	squat lobster	Chirostylidae		Sp, OL	New listing

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Urotychus koningen</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, RR	New listing
<i>Urotychus nirvana</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, OL	New listing
<i>Urotychus novaezealandiae</i> Borradaile, 1916	squat lobster	Chirostylidae		Sp, OL	New listing
<i>Urotychus paku</i> Schnabel, 2009	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus pars</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, OL	New listing
<i>Urotychus proberti</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, OL	New listing
<i>Urotychus ritchie</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, OL	New listing
<i>Urotychus rungapapa</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, RR	New listing
<i>Urotychus taniwha</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, OL	New listing
<i>Urotychus taranaki</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, OL	New listing
<i>Urotychus taratara</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus tasmani</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, OL	New listing
<i>Urotychus vulcanus</i> Baba, 2018	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus webberi</i> Schnabel, 2009	squat lobster	Chirostylidae		Sp, OL	New listing
<i>Urotychus yaldwyni</i> Schnabel, 2009	squat lobster	Chirostylidae		Sp, OL	New listing
Brachiopoda (1)					
<i>Ampithyris comitodentis</i> Nauendorf, Wörheide & Lüter, 2014	lamp shell	Platidiidae		DPS, DPT, OL	New listing
Bryozoa (15)					
<i>Amathia gracei</i> Gordon & Spencer Jones, 2013	bryozoan	Vesiculariidae		DPS, DPT, OL	New listing
<i>Bioptica spinosa</i> Gordon, 2014	bryozoan	Romancheinidae		DPR, DPS	New listing
<i>Caesiopora secta</i> Gordon, 2014	bryozoan	Bitectiporidae		DPR, DPS	New listing
<i>Cavalliella linearis</i> Gordon, 2014	bryozoan	Calloporidae		DPS, DPT, OL	New listing
<i>Fovoporella spectabilis</i> (Hincks, 1891)	bryozoan	Schizoporellidae		DPS, DPT	New listing
<i>Mangana magnesia</i> Gordon, 2014	bryozoan	Foveolaridae		DPS, DPT, OL	New listing
<i>Microblestrum imitator</i> Gordon, 2014	bryozoan	Pyrisinellidae		DPR, DPT, OL	New listing
<i>Olisthella contigua</i> Gordon & Taylor, 2017	bryozoan	Calloporidae		DPS, DPT, OL	New listing
<i>Olisthella mimica</i> Gordon & Taylor, 2017	bryozoan	Calloporidae		DPS, DPT	New listing
<i>Parachnoidea rowdeni</i> Gordon, 2012	bryozoan	Arachnididae		DPS, DPT, OL	New listing
<i>Powellitheca labiosa</i> Di Martino, Taylor, Gordon & Liow, 2016	bryozoan	Powellithecidae		DPS, DPT, OL	New listing
<i>Powellitheca terranova</i> Di Martino, Taylor, Gordon & Liow, 2016	bryozoan	Powellithecidae		DPS, DPT	New listing
<i>Pyriporoidea aviculata</i> Gordon & Taylor, 2017	bryozoan	Calloporidae		DPS, DPT, OL	New listing

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Steginoporella modesta</i> Gordon, Voje & Taylor, 2017	bryozoan	Steginoporellidae		DPS, DPT, OL	New listing
<i>Taylorus spinosus</i> Gordon, 2014	bryozoan	Escharinidae		DPS, DPT, OL	New listing
Chordata (1)					
<i>Apildium coronum</i> Page, Willis & Handley, 2014	sea squirt	Polyclinidae		DPS, DPT, RR	New listing
Cnidaria (35)					
<i>Acanella arbuscula</i> (Johnson, 1862)	bamboo coral	Isididae		Sp, CI, DPT	New listing
<i>Acanella rigida</i> Wright & Studer, 1889	bamboo coral	Isididae		Sp, CI, DPS, DPT	New listing
<i>Antipathes fruticosa</i> Gray, 1857	black coral	Antipathidae		CI, DPS, DPT	No change
<i>Asteropathes octocrada</i> Opreško, 2015	black coral	Aphanipathidae		CI, DPS, DPT, OL	New listing
<i>Callogorgia histocladus</i> (Cairns, 2016)	sea fan	Primnoidae		CI, DPS, DPT, RR	New listing
<i>Calyptophora cristata</i> Cairns, 2012	sea fan	Primnoidae		OL, RR, Sp	No change
<i>Calyptophora niwa</i> Cairns, 2012	sea fan	Primnoidae		DPS, DPT, RR, Sp	No change
<i>Circinis circinata</i> Grant, 1976	bamboo coral	Isididae		CI, DPS, DPT, OL	No change
<i>Coenocyathus brooki</i> Cairns, 1995	stony cup coral	Caryophylliidae		CI, DPS, DPT, RR	No change
<i>Errina australis</i> Cairns & Zibrowius, 2013	red hydrocoral	Stylasteridae		Sp, CI, RR	No change
<i>Errina cooki</i> Hickson, 1912	red hydrocoral	Stylasteridae		Sp, CI, DPS, DPT, RR	No change
<i>Errina dendyi</i> Hickson, 1912	red hydrocoral	Stylasteridae		Sp, CI, DPS, DPT	No change
<i>Flabellum cincturatum</i> Cairns & Polonio, 2013	sea fan	Flabellidae		DPS, DPT	New listing
<i>Helicoprinnia fasciola</i> Cairns, 2012	bamboo coral	Primnoidae		DPS, DPT, OL	No change
<i>Keratosis tangensis</i> Grant, 1976	sea fan	Isididae		Sp, CI, DPS, DPT, OL, RR	Neutral
<i>Loboprinnia exotica</i> Cairns, 2016	sea fan	Primnoidae		DPS, DPT	New listing
<i>Metafannyella polita</i> Cairns, 2016	sea fan	Primnoidae		DPS, DPT	New listing
<i>Narella mosaica</i> Cairns, 2012	sea fan	Primnoidae		OL	No change
<i>Narelloides traceyae</i> Cairns, 2016	sea fan	Primnoidae		DPS, DPT	New listing
<i>Pachyprinnia asakoe</i> Cairns, 2016	sea fan	Primnoidae		DPS, DPT	New listing
<i>Paragorgia aotearoa</i> Sánchez, 2005	bubblegum coral	Paragorgiidae		Sp, CI, DPS, DPT	No change
<i>Paragorgia kaupeka</i> Sánchez, 2005	bubblegum coral	Paragorgiidae		CI, DPS, DPT, RR	No change
<i>Paragorgia maunga</i> Sánchez, 2005	bubblegum coral	Paragorgiidae		CI, DPS, DPT, RR	No change
<i>Paragorgia wahine</i> Sánchez, 2005	bubblegum coral	Paragorgiidae		CI, DPS, DPT, OL	No change
<i>Paragorgia whero</i> Sánchez, 2005	bubblegum coral	Paragorgiidae		Sp, CI, DPS, DPT	No change
<i>Parantipathes dodecasticha</i> Opreško, 2015	black coral	Paragorgiidae		Sp, CI, DPS, DPT	No change
<i>Parantipathes robusta</i> Opreško, 2015	black coral	Schizopathidae		CI, DPS, DPT	New listing
	black coral	Schizopathidae		CI, DPS, DPT	New listing

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Perissogorgia rigida</i> Cairns, 2016		Primnoidae			New listing
<i>Phanopathes zealandica</i> Opreško, 2015		Aphanipathidae		DPS, DPT	New listing
<i>Primnois armbigua</i> Wright & Studer, 1889	bamboo coral	Isididae		CI, DPS, DPT, RR, SO	No change
<i>Primnois niwa</i> Moore, Alderslade & Miller, 2016	bamboo coral	Isididae		CI, DPS, DPT	No change
<i>Scleris macquariana</i> Bayer & Stefani, 1987	bamboo coral	Isididae		CI	New listing
<i>Sibogorgia dennisgordoni</i> Sánchez, 2005	bubblegum coral	Paragorgiidae		CI, OL	No change
<i>Sibogorgia tautahi</i> Sánchez, 2005		Paragorgiidae		DPS, DPT, OL	No change
<i>Victorgorgia erminens</i> Moore, Alderslade & Miller, 2017	soft coral	Anthothelidae		Sp, CI, DPS, DPT	New listing
Echinodermata (16)					
<i>Araeosoma leppienae</i> Anderson, 2013	tam o'shanter sea urchin	Echinothuriidae		CI, DPR	New listing
<i>Gorgonocephalus sundanus</i> Döderlein, 1927	basket starfish	Gorgonocephalidae		DPS, DPT, Sp	No change
<i>Hippasteria mcknighti</i> Mah, Neill, Eleaume & Foltz, 2014	trojan sea star	Goniasteridae		DPS, DPT	New listing
<i>Hippasteria muscipula</i> Mah, Neill, Eleaume & Foltz 2014	trojan sea star	Goniasteridae		DPS, DPT	New listing
<i>Paracaudina alta</i> Davey & O'Loughlin, 2013	sea cucumber	Caudinidae		DPS, DPT, RR	New listing
<i>Paracaudina reducta</i> Davey & O'Loughlin, 2013	sea cucumber	Caudinidae		OL	New listing
<i>Paradota plentyensis</i> Davey, 2014	sea cucumber	Chiridotidae		DPS, DPT, RR	New listing
<i>Porterpygus kieri</i> Baker, 1983	Kier's echinoid	Apatopygidae			No change
<i>Psolidium aequum</i> Davey & Whitfield, 2013	sea cucumber	Psolidae		DPS, DPT, De, RR	New listing
<i>Psolidium kermadeci</i> Davey & Whitfield, 2013	sea cucumber	Psolidae		DPS, DPT, De	New listing
<i>Psolidium mairiotti</i> Davey & Whitfield, 2013	sea cucumber	Psolidae		DPS, DPT, De, OL	New listing
<i>Psolidium ramum</i> Davey & Whitfield, 2013	sea cucumber	Psolidae		DPS, DPT, De, OL	New listing
<i>Psolus macquariensis</i> Davey & Whitfield, 2013	sea cucumber	Psolidae		Sp, DPS, DPT, De	New listing
<i>Tripeustes kermadecensis</i> Bronstein, Kroh, Tautscher, Liggins & Haring, 2017	sea urchin	Toxopneustidae			New listing
<i>Tromikosoma rugosum</i> Anderson, 2016	tam o'shanter sea urchin	Echinothuriidae			New listing
<i>Xyloplax medusiformis</i> Baker, Rowe & Clark, 1986	sea daisy	Xyloplacidae			No change
Mollusca (12)					
<i>Calyptogena tuerkayi</i> Krylova & R. Janssen, 2006	giant seep clam	Vesicomidae		DPS, DPT	No change
<i>Falsimargarita callista</i> B.A. Marshall, 2016	top shell	Calliostomatidae		DPS, DPT	New listing
<i>Falsimargarita challengerica</i> B.A. Marshall, 2016	top shell	Calliostomatidae		DPS, DPT	New listing
<i>Falsimargarita eximia</i> B.A. Marshall, 2016	top shell	Calliostomatidae		DPS, DPT	New listing
<i>Falsimargarita tangaroa</i> B.A. Marshall, 2016	top shell	Calliostomatidae		DPS, DPT	New listing

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Magnoteuthis osheai</i> Braid & Bolstad, 2015	whiplash squid	Mastigoteuthidae		DPS, DPT	New listing
<i>Microplina reinga</i> B.A. Marshall, 2006	monoplacophoran limpet	Neopilinidae		OL, RR	No change
<i>Microplina wareni</i> B.A. Marshall, 2006	monoplacophoran limpet	Neopilinidae		OL, RR	No change
<i>Munditia suteri</i> (Mestayer, 1919)	sea snail	Liotiidae		RR	Neutral
<i>Solenya calypso</i> Walton, 2015	awning clam	Solemyidae		DPS, DPT, OL	New listing
<i>Spondylus ostreoides</i> E.A. Smith, 1885	spineless spiny clam	Spondyliidae		DPS, DPT, OL	No change
<i>Vema occidua</i> B.A. Marshall, 2006	monoplacophoran limpet	Neopilinidae		DPS, DPT, OL	No change
Nematoda (37)					
<i>Acanthopharynx dormitata</i> Leduc & Zhao, 2016	marine nematode	Desmodoridae			New listing
<i>Aponema pseudotorosum</i> Fu & Leduc, 2019	marine nematode	Microilaimidae		DPS, DPT, OL	New listing
<i>Bendillea longicauda</i> Leduc & Zhao, 2016	marine nematode	Selachinematidae			New listing
<i>Bendillea thalassa</i> Leduc, 2013	marine nematode	Selachinematidae			New listing
<i>Centonema renamphidum</i> Leduc, 2013	marine nematode	Desmodoridae			New listing
<i>Cheironchus haurakiensis</i> Leduc & Zhao, 2016	marine nematode	Selachinematidae			New listing
<i>Cobbionema trigamma</i> Leduc, 2013	marine nematode	Selachinematidae			New listing
<i>Desmodora bilacina</i> Leduc & Zhao, 2016	marine nematode	Desmodoridae			New listing
<i>Desmodorella verscheidei</i> Leduc & Zhao, 2016	marine nematode	Desmodoridae			New listing
<i>Dracograllus ngakei</i> Leduc & Zhao, 2016	marine nematode	Draconematidae			New listing
<i>Eubostriehus hortulanus</i> Leduc, 2013	marine nematode	Desmodoridae			New listing
<i>Halichoanolaimus anisospermus</i> Leduc & Zhao, 2016	marine nematode	Selachinematidae			New listing
<i>Halomonhystera tangaroa</i> Leduc, 2014	marine nematode	Monhysteridae			New listing
<i>Latronema whataitai</i> Leduc & Zhao, 2015	marine nematode	Selachinematidae			New listing
<i>Manganonema majusculum</i> Leduc, 2015	marine nematode	Xyalidae			New listing
<i>Manganonema rowdeni</i> Leduc, 2015	marine nematode	Xyalidae			New listing
<i>Maragnopsia hadalis</i> Leduc, 2016	marine nematode	Microilaimidae			New listing
<i>Metacyatholaimus delicatus</i> Leduc & Zhao, 2018	marine nematode	Cyatholaimidae			New listing
<i>Metasphaerolaimus constrictus</i> Leduc, 2015	marine nematode	Sphaerolaimidae			New listing
<i>Microilaimus korari</i> Leduc, 2016	marine nematode	Microilaimidae			New listing
<i>Molgolaimus kaikouraensis</i> Fu & Leduc, 2019	marine nematode	Desmodoridae			New listing

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Monhysterella kermadecensis</i> Leduc, 2015	marine nematode	Monhysteridae			New listing
<i>Mudwigglus macramphidum</i> Leduc, 2013	marine nematode	Diplopeltidae			New listing
<i>Mudwigglus nellyae</i> Vincx and Gourbault, 1992	marine nematode	Diplopeltidae			New listing
<i>Mudwigglus patumuka</i> Leduc, 2013	marine nematode	Diplopeltidae			New listing
<i>Mudwigglus plebeius</i> Leduc, 2013	marine nematode	Diplopeltidae			New listing
<i>Orepunema enigmaticum</i> Leduc & Verschelde, 2013	marine nematode	Desmodoridae			New listing
<i>Paracanthonchus mitommatius</i> Leduc & Zhao, 2018	marine nematode	Cyatholaimidae			New listing
<i>Paramphimonhysterella echinocauda</i> Leduc, 2014	marine nematode	Xyalidae		Sp	New listing
<i>Pseudocheironchus ingluvius</i> Leduc, 2013	marine nematode	Selachinematidae			New listing
<i>Pseudonchus virginiae</i> Leduc & Verschelde, 2013	marine nematode	Desmodoridae		Sp	New listing
<i>Sabatteria annulata</i> Leduc & Wharton, 2008	marine nematode	Comesomatidae			Neutral
<i>Southerniella parasimplex</i> Leduc, 2017	marine nematode	Diplopeltidae			New listing
<i>Southerniella simplex</i> Allgén, 1932	marine nematode	Diplopeltidae			Neutral
<i>Sphaerolaimus haurakensis</i> Leduc & Zhao, 2017	marine nematode	Sphaerolaimidae			New listing
<i>Spirinia antipodea</i> Leduc, 2018	marine nematode	Desmodoridae			New listing
<i>Synonchiella rotundicauda</i> Leduc, 2013	marine nematode	Selachinematidae			New listing
Porifera (57)					
<i>Amphidiscella abyssalis</i> Reiswig & Kelly, 2018	glass sponge	Euplectellidae		DPS, DPT, OL	New listing
<i>Amphidiscella sonnae</i> Reiswig & Kelly, 2018	glass sponge	Euplectellidae		DPS, DPT, OL	New listing
<i>Amphoreus schuppi</i> Reiswig & Kelly, 2018	glass sponge	Euplectellidae		DPS, DPT, OL	New listing
<i>Auloplax sonnae</i> Reiswig & Kelly, 2011	glass sponge	Auloplacidae		Sp, DPS, DPT, OL	No change
<i>Carinella prima</i> (Sim-Smith & Kelly, 2015)	sponge	Geodiidae		DPS, DPT	New listing
<i>Chonelasma australe</i> Reiswig & Kelly, 2011	glass sponge	Euretidae		Sp, DPS, DPT, OL, RR	No change
<i>Chonelasma biscopulatum</i> Reiswig & Kelly, 2011	glass sponge	Euretidae		Sp, DPS, DPT, OL, RR	No change
<i>Chonelasma chathamense</i> Reiswig & Kelly, 2011	sponge	Euretidae		Sp, DPS, DPT, OL, RR	No change
<i>Chonelasma glaciale</i> Reiswig & Kelly, 2011	glass sponge	Euretidae		Sp, DPS, DPT, OL, RR	No change
<i>Conorete gordonii</i> Reiswig & Kelly, 2011	glass sponge	Euretidae		Sp, DPS, DPT, OL, RR	No change
<i>Corbitella inopiosa</i> Reiswig & Kelly, 2018	sponge	Euplectellidae		DPS, DPT	New listing
<i>Corbitella plagiariorum</i> Reiswig & Kelly, 2018	glass sponge	Euplectellidae		DPS, DPT, RR	New listing
<i>Dicytaulus hydrangeaformis</i> Reiswig & Kelly, 2018	glass sponge	Euplectellidae		DPS, DPT	New listing
<i>Dicytaulus orientalis</i> Reiswig & Kelly, 2018	glass sponge	Euplectellidae		DPS, DPT	New listing
<i>Echinostylinos patriciae</i> Carvalho, Lopes, Cosme & Hajdu, 2016	sponge	Phellodermidae		DPS, DPT	New listing

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Erylus falax</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae		DPS, DPT	New listing
<i>Euplectella semisimplex</i> Reiswig & Kelly, 2018	Venus' flower basket	Euplectellidae		DPS, DPT	New listing
<i>Farrea medusiforma</i> Reiswig & Kelly, 2011	glass sponge	Farreidae		Sp, DPS, DPT	No change
<i>Farrea onychohexastera</i> Reiswig & Kelly, 2011	glass sponge	Farreidae		Sp, DPS, DPT	No change
<i>Farrea raouliensis</i> Reiswig & Kelly, 2011	glass sponge	Farreidae		DPS, DPT	No change
<i>Geodia copiosa</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae		DPS, DPT	New listing
<i>Geodia kermadecensis</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae		DPS, DPT	New listing
<i>Geodia leosimi</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae		DPS, DPT	New listing
<i>Geodia margarita</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae		DPS, DPT	New listing
<i>Geodia praelonga</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae		DPS, DPT	New listing
<i>Geodia sadiemilliae</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae		DPS, DPT	New listing
<i>Geodia sagitta</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae		DPS, DPT	New listing
<i>Geodia tenera</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae		DPS, DPT	New listing
<i>Geodia vadi</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae		DPS, DPT	New listing
<i>Geodia williami</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae		DPS, DPT	New listing
<i>Gymnorete pacificum</i> Reiswig & Kelly, 2011	glass sponge	Euretidae		Sp, DPS, DPT	No change
<i>Gymnorete stabulatum</i> Reiswig & Kelly, 2011	glass sponge	Euretidae		Sp, DPS, DPT, OL, RR	No change
<i>Haliciona battershilli</i> Kelly & Rowden, 2019	sponge	Chalinidae		DPS, DPT, RR	New listing
<i>Haliciona sonnae</i> Kelly & Rowden, 2019	sponge	Chalinidae		DPS, DPT, RR	New listing
<i>Hexactinella acanthacea</i> Reiswig & Kelly, 2011	glass sponge	Tretodictyidae		DPS, DPT, RR, Sp	No change
<i>Hexactinella aurea</i> Reiswig & Kelly, 2011	glass sponge	Tretodictyidae		DPS, DPT, OL, Sp	No change
<i>Hexascus pannosus</i> Reiswig & Kelly, 2018	glass sponge	Euplectellidae		DPS, DPT	New listing
<i>Holascus tasmanensis</i> Reiswig & Kelly, 2018	glass sponge	Euplectellidae		DPS, DPT	New listing
<i>Janulum imago</i> Kelly & van Soest, 2015	sponge	Raspailiidae		DPS, DPT	New listing
<i>Malacosaccus microglobus</i> Reiswig & Kelly, 2018	glass sponge	Euplectellidae		OL	New listing
<i>Penares astronavis</i> Sim-Smith & Kelly, 2019	sponge	Geodiidae		DPS, DPT, OL	New listing
<i>Penares deformis</i> Sim-Smith & Kelly, 2019	sponge	Geodiidae		DPS, DPT, OL	New listing
<i>Penares kermadecensis</i> Sim-Smith & Kelly, 2019	sponge	Geodiidae		DPS, DPT, OL	New listing
<i>Penares mollis</i> Sim-Smith & Kelly, 2019	sponge	Geodiidae		DPS, DPT	New listing
<i>Penares okokewae</i> Sim-Smith & Kelly, 2019	sponge	Geodiidae		DPS, DPT, OL	New listing
<i>Penares orbis</i> Sim-Smith & Kelly, 2019	sponge	Geodiidae		DPS, DPT	New listing
<i>Penares vermiculatus</i> Sim-Smith & Kelly, 2019	sponge	Geodiidae		DPS, DPT	New listing

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Table 6 continued

ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Plumitoma solida</i> Reiswig & Kelly, 2018	glass sponge	Euplectellidae		DPS, DPT, OL	New listing
<i>Poecillastra ducitriaena</i> Kelly & Cárdenas, 2019	sponge	Vulcanellidae		DPS, DPT, OL	New listing
<i>Poecillastra macquariensis</i> Kelly & Cárdenas, 2019	sponge	Vulcanellidae		OL	New listing
<i>Protosuberites novaezelandiae</i> Kelly & Rowden, 2019	sponge	Subertitidae		DPS, DPT, RR	New listing
<i>Regadrella australis</i> Reiswig & Kelly, 2018	Venus basket sponge	Euplectellidae		DPS, DPT, De	New listing
<i>Regadrella hispida</i> Reiswig & Kelly, 2018	Venus basket sponge	Euplectellidae		DPS, DPT, De	New listing
<i>Saccocalyx tetractinus</i> Reiswig & Kelly, 2018	demosponge	Euplectellidae			New listing
<i>Stupenda singularis</i> Kelly & Cárdenas, 2016	demosponge	Stupendidae		OL	New listing
<i>Suberea meandrina</i> Kelly, 2015	demosponge	Aplysinellidae		De	New listing
<i>Trychella kermadecensis</i> Reiswig & Kelly, 2018	glass sponge	Euplectellidae		DPS, DPT, OL	New listing
Taxonomically unresolved (6)					
Cnidaria (5)					
<i>Echinis</i> spp.	bamboo coral	Isididae		CI	Neutral
<i>Mopsea</i> sp.	bamboo coral	Isididae		Sp, CI, SO	No change
<i>Pelastisis</i> sp.	bamboo coral	Isididae		Sp, CI	No change
<i>Protulophila</i> sp.	hydroid	Hydrozoa; family <i>incertae sedis</i>		DPS, DPT	No change
<i>Scleris</i> sp. NIWA J. Sanchez	bamboo coral	Isididae		CI, DPS, DPT, OL	No change
Mollusca (1)					
<i>Archivesica</i> sp. 1	giant seep clam	Vesicomysidae		DPR, RR	New listing
THREATENED (10)					
NATIONALLY CRITICAL (6)					
Taxonomically determinate (6)					
Annelida (1)					
<i>Boccardiella magniovata</i> (Read, 1975)	polychaete worm	Spionidae	B(2)		No change
Arthropoda (1)					
<i>Idiobla idiotica</i> (Batham, 1945)	barnacle	Idioblidae	C	CI, DPR, DPS, DPT	No change
Brachiopoda (1)					
<i>Pumilus antiquatus</i> Atkins, 1958	dwarf white lamp shell	Kraussinidae	C	CI, CR, DPR, DPS, DPT	No change

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Table 6 continued

ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
Mollusca (3)					
<i>Gigantoides tangaroa</i> (Cosel & B.A. Marshall, 2003)	giant seep mussel	Mytilidae	A(3)	RR	No change
<i>Smeagol climoi</i> Tillier & Ponder, 1992	gravel maggot	Otinidae	A(3)	CI, DPS, DPT, OL	No change
<i>Smeagol manningi</i> Climo, 1980	gravel maggot	Otinidae	A(3)	DPS, DPT, OL	No change
NATIONALLY ENDANGERED (1)					
Taxonomically determinate (1)					
Annelida (1)					
<i>Spio aequalis</i> Ehlers, 1904	polychaete worm	Spionidae	A(1)	RR, Sp	No change
NATIONALLY VULNERABLE (3)					
Taxonomically determinate (3)					
Bryozoa (2)					
<i>Calvetia oshaei</i> Taylor & Gordon, 2003	O'Shea's tree bryozoan	Calvetidae	C(3)	CI, CR, DPS, DPT, RR	No change
<i>Spiritopora perplexa</i> Taylor & Gordon, 2003	cyclostome bryozoan	Diaperocididae	C(3)	CI, CD, RR	No change
Cnidaria (1)					
<i>Paragorgia allisonae</i> Sanchez, 2005	bubblegum coral	Paragorgiidae		CI, DPR, DPS, DPT, Sp	No change
AT RISK (439)					
DECLINING (38)					
Taxonomically determinate (31)					
Bryozoa (1)					
<i>Steginoporella perplexa</i> Livingstone, 1929	bryozoan	Steginoporellidae	C(2)	CI, CD, PD, RR	No change
Cnidaria (8)					
<i>Chaetamisis bayeri</i> Grant, 1976	bamboo coral	Isididae	C(2)	CI, DPS, DPT, Sp	Better
<i>Enallopsammia pusilla</i> (Alcock, 1902)	stony branching coral	Dendrophylliidae	C(2)	CI, CD, PD, SO, Sp	No change
<i>Enallopsammia rostrata</i> (Pourtales, 1878)	stony branching coral	Dendrophylliidae	C(2)	CI, CD, PD, SO	No change
<i>Errina novaezelandiae</i> Hickson, 1912	red hydrocoral	Styasteridae	C(2)	Sp, CI, DPT	No change
<i>Goniocorella dumosa</i> (Alcock, 1902)	stony branching coral	Caryophyllidae	C(2)	CI, CD, SO	No change
<i>Madrepora oculata</i> Linnaeus, 1758	coral	Oculinidae		CI, CD, SO	No change
<i>Paragorgia arborea</i> (Linnaeus, 1758)	bubblegum coral	Paragorgiidae	C(2)	Sp, CI, SO	No change
<i>Solenosmilia variabilis</i> Duncan, 1873	stony branching coral	Caryophyllidae	C(2)	CI, CD, SO	No change

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
Echinodermata (7)					
<i>Araeosoma bidentatum</i> Anderson, 2013	tam o'shanter sea urchin	Echinothuriidae	C(2)	CI, DPS, DPT, PD	New listing
<i>Araeosoma migratum</i> Anderson, 2013	tam o'shanter sea urchin	Echinothuriidae	C(2)	CI, DPS, DPT	New listing
<i>Araeosoma tertii</i> Anderson, 2013	tam o'shanter sea urchin	Echinothuriidae	C(2)	CI, DPS, DPT	New listing
<i>Gorgonocephalus chilensis</i> (Philippi, 1858)	basket starfish	Gorgonocephalidae	C(2)	SO	No change
<i>Gorgonocephalus dolichodactylus</i> Döderlein, 1911	basket starfish	Gorgonocephalidae	C(2)	SO	No change
<i>Gorgonocephalus pustulatum</i> (H.L. Clark, 1916)	basket starfish	Gorgonocephalidae	C(2)		No change
<i>Hapalosoma amyryna</i> Anderson, 2013	tam o'shanter sea urchin	Echinothuriidae	C(2)	DPS, DPT	New listing
Mollusca (4)					
<i>Alicithoe davegibbsi</i> Hart, 1999	volute	Volutidae	C(2)	CI, DPS, DPT	No change
<i>Cellana flava</i> (Hutton, 1873)	limpet	Nacellidae	A(2)	DPS, DPT, RR	No change
<i>Octopus kaharoa</i> O'Shea, 1999	octopus	Octopodidae			No change
<i>Opisthoteuthis mero</i> O'Shea, 1999	octopus	Opisthoteuthidae			No change
Porifera (11)					
<i>Atlantisella lorrainae</i> Reiswig & Kelly, 2017	glass sponge	Euplectelidae	C(2)	CI, DPS, DPT	New listing
<i>Chonelasma lamella</i> Schulze, 1886	glass sponge	Euretidae	C(2)	Sp, CR, DPS, DPT	Worse
<i>Dicyaulus crinolinum</i> Reiswig & Kelly, 2018	glass sponge	Euplectelidae	C(2)	DPS, DPT	New listing
<i>Farrea ananchorata</i> Reiswig & Kelly, 2011	glass sponge	Farreidae	C(2)	Sp, DPS, DPT, RR	Worse
<i>Farrea anoxyhexastera</i> Reiswig & Kelly, 2011	glass sponge	Farreidae	C(2)	Sp, DPS, DPT	Worse
<i>Farrea similaris</i> Reiswig & Kelly, 2011	glass sponge	Farreidae	C(2)	Sp, CR, DPS, DPT	Worse
<i>Geodia campbellensis</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae	C(2)	DPS, DPT	New listing
<i>Geodia ewok</i> Sim-Smith & Kelly, 2015	ewok sponge	Geodiidae	C(2)	DPS, DPT	New listing
<i>Geodia harpago</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae	C(2)	DPS, DPT	New listing
<i>Lamellomorpha australis</i> Kelly & Cárdenas, 2019	sponge	Pachastrellidae	C(2)	DPS, DPT	New listing
<i>Pachymatisma nodosa</i> Sim-Smith & Kelly, 2015	sponge	Geodiidae	C(2)	DPS, DPT	New listing
Taxonomically unresolved (7)					
Cnidaria (7)					
<i>Corallium</i> spp.		Corallidae	C(2)	Sp, CI	No change
<i>Iridogorgia</i> spp.	gorgonian	Chrysogorgiidae	C(2)	CI, SO?, Sp	No change
<i>Isidella</i> spp.		Isididae	C(2)	OL	No change
<i>Keratoisis</i> spp.	bamboo coral	Isididae	C(2)	Sp, CI, DPR, DPS, DPT	No change

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Lepidisis</i> spp.		Isididae	C(2)	DDP, DDP, DPT, Sp	No change
<i>Metallogorgia</i> spp.	golden coral	Chrysogorgiidae	C(2)	CI, SO	No change
<i>Minuisis</i> spp.	bamboo coral	Isididae	C(2)	Sp, CI	Worse
NATURALLY UNCOMMON (401)					
Taxonomically determinate (311)					
Artropoda (101)					
<i>Alvinocaris alexander</i> Ahyong, 2009	vent shrimp	Alvinocarididae		RR	No change
<i>Alvinocaris longirostris</i> Kikuchi & Ohta, 1995	vent shrimp	Alvinocarididae		RR	No change
<i>Alvinocaris niwa</i> Webber, 2004	vent shrimp	Alvinocarididae		RR	No change
<i>Bathycuma dayae</i> Gerken, 2013	comma shrimp	Bodotriidae		Sp, DDP, DPT	New listing
<i>Bathylamprops paraleucon</i> Gerken, 2018	comma shrimp	Lampropiidae		Sp, DDP, DPT	New listing
<i>Byblisoides richardi</i> Peart, 2018	marine amphipod	Ampeliscidae		Sp, DDP, DPT	New listing
<i>Chirostylus novaecaledoniae</i> Baba, 1991	squat lobster	Chirostylidae		Sp	New listing
<i>Chitinolepas spiritesensis</i> Buckridge & Newman, 2006	barnacle	Idiobolidae		DDP, DPT	No change
<i>Colubriscquilla dempsey</i> Ahyong, 2012	mantis shrimp	Tetrascyllidae		Sp	No change
<i>Colurostylis whitireia</i> Gerken, 2015	comma shrimp	Diastylidae		DDP, DPT, OL	New listing
<i>Cyclaspis hayee</i> Gerken, 2013	comma shrimp	Bodotriidae		Sp, DDP, DPT	New listing
<i>Diastylis acanthoelachys</i> Gerken, 2015	comma shrimp	Diastylidae		Sp, DDP, DPT	New listing
<i>Diastylis adaioacanthus</i> Gerken, 2015	comma shrimp	Diastylidae		Sp, DDP, DPT	New listing
<i>Diastylis spinacellulosus</i> Gerken, 2015	comma shrimp	Diastylidae		Sp, DDP, DPT	New listing
<i>Diastylopsis aspratilis</i> Gerken, 2015	comma shrimp	Diastylidae		Sp, DDP, DPT	New listing
<i>Diastylopsis bicarina</i> Gerken, 2015	comma shrimp	Diastylidae		Sp, DDP, DPT	New listing
<i>Elamena momona</i> Melrose, 1975	crab	Hymenosomatidae		Sp, DDP, DPT	No change
<i>Eumunida spinosa</i> Macpherson, 2006	squat lobster	Eumunidae		Sp	New listing
<i>Eumunida sternomaculata</i> de Saint Laurent & Macpherson, 1990	squat lobster	Eumunidae		Sp	New listing
<i>Farragolamprops spinacristatus</i> Gerken, 2018	comma shrimp	Lampropiidae		Sp, DDP, DPT	New listing
<i>Gandalfus puia</i> McLay, 2007	crab	Bythograeidae		RR, Sp	No change
<i>Halimena aotearoa</i> Melrose, 1975	crab	Hymenosomatidae		Sp	No change
<i>Heteroptychus claudae</i> Baba, 2018	squat lobster	Chirostylidae		Sp, DDP, DPT	New listing
<i>Heteroptychus colini</i> Baba, 2018	squat lobster	Chirostylidae		Sp, DDP, DPT	New listing
<i>Heterosquilla koning</i> Ahyong, 2012	mantis shrimp	Tetrascyllidae		Sp	No change

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Heterosquilla laevis</i> (Hutton, 1879)	mantis shrimp	Tetrasquillidae		Sp	No change
<i>Heterosquilla tricarinata</i> (Claus, 1871)	mantis shrimp	Tetrasquillidae		Sp	No change
<i>Heterosquilla tridentata</i> (Thomson, 1882)	mantis shrimp	Tetrasquillidae		DPS, DPT, RR, Sp	No change
<i>Lebbeus wera</i> Ahyong, 2009	vent shrimp	Thoridae		Sp, DPS, DPT, PF, RR	No change
<i>Leptomithrax tuberculatus mortenseni</i> Bennett, 1964	crab	Majidae		RR	No change
<i>Leucothoe macquariae</i> Krapp-Schickel & De Broyer, 2014	marine amphipod	Leucothoidae		Sp, DPP, DPS, DPT	New listing
<i>Lithodes macquariae</i> Ahyong, 2010	king crab	Lithodidae		RR, Sp	No change
<i>Lithodes robertsoni</i> Ahyong, 2010	king crab	Lithodidae		Sp	No change
<i>Makrotylindrus semitechinata</i> Gerken, 2015	comma shrimp	Diastylidae		Sp, DPS, DPT	New listing
<i>Munidopsis pyrochela</i> Ahyong, 2014	squat lobster	Munidopsidae		Sp, DPS, DPT	New listing
<i>Mursia microspina</i> Davie & Short, 1989	crab	Calappidae		RR, SO	No change
<i>Myopiarolis tona</i> Spong & Bruce, 2015	sea slater	Serolidae		Sp, DPS, DPT	New listing
<i>Neolithodes bronwynae</i> Ahyong, 2010	king crab	Lithodidae			No change
<i>Otagia neozelanica</i> (Chilton, 1897)	marine amphipod	Otagiidae		Sp, DPS, DPT, RR	New listing
<i>Paralomis dawsoni</i> Macpherson, 2001	king crab	Lithodidae		DPS, Sp	No change
<i>Paralomis hirtella</i> de Saint Laurent & Macpherson, 1997	king crab	Lithodidae		SO	No change
<i>Paralomis poorei</i> Ahyong, 2010	king crab	Lithodidae		Sp	No change
<i>Paralomis zealandica</i> Dawson & Yaldwyn, 1971	king crab	Lithodidae		Sp	No change
<i>Parillicantha georgeorum</i> Ahyong, 2012	mantis shrimp	Tetrasquillidae		Sp	No change
<i>Pinkertonius ambiguus</i> Bradford-Grieve, Boxshall & Blanco-Bercial, 2014	copepod	Pseudocyclopidae		Sp, DPS, DPT	New listing
<i>Pseudomunida fragilis</i> Haig, 1979	squat lobster	Eurunididae		Sp	New listing
<i>Rhachotropis oweni</i> Lörz, 2015	marine amphipod	Eusiridae		Sp, DPS, DPT, RR	New listing
<i>Spongiocaris yaldwyni</i> Bruce & Baba, 1973	Venus shrimp	Spongiocolidae		Sp, DPS, DPT	New listing
<i>Sternostylus niwa</i> Schmabel, 2020	squat lobster	Sternostylidae		Sp, DPS, DPT	New listing
<i>Sternostylus rogeri</i> (Baba, 2000)	squat lobster, football crab	Sternostylidae		Sp, DPS, DPT	New listing
<i>Urotychodes epigaster</i> Baba, 2004	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychodes spinimarginatus</i> (Henderson, 1885)	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus ahyongi</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, DPS, DPT	New listing
<i>Urotychus annae</i> Baba, 2018	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus aotearoa</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus australis</i> (Henderson, 1885)	squat lobster	Chirostylidae		Sp	New listing

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Uroptychus baeomma</i> Baba, 2018	squat lobster	Chirostylidae		Sp, DPS, DPT	New listing
<i>Uroptychus bathamae</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus belos</i> Ah Yong & Poore, 2004	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus bicavus</i> Baba & de Saint Laurent, 1992	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus bispinatus</i> Baba, 1988	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus brevisquamatus</i> Baba, 1988	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus cardus</i> Ah Yong & Poore, 2004	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus chathamii</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, RR	New listing
<i>Uroptychus cylindropus</i> Baba, 2018	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus defayeeae</i> Baba, 2018	squat lobster	Chirostylidae		Sp, DPS, DPT	New listing
<i>Uroptychus depressus</i> Baba, 2018	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus disangulatus</i> Baba, 2018	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus duplex</i> Baba, 2018	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus empheres</i> Ah Yong & Poore, 2004	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus enriquei</i> Baba, 2018	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus ihu</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp, RR	New listing
<i>Uroptychus inaequalis</i> Baba, 2018	squat lobster	Chirostylidae		Sp, DPS, DPT	New listing
<i>Uroptychus inermis</i> Baba, 2018	squat lobster	Chirostylidae		Sp, DPS, DPT	New listing
<i>Uroptychus laperousazi</i> Ah Yong & Poore, 2004	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus litosus</i> Ah Yong & Poore, 2004	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus longior</i> Baba, 2005	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus longvae</i> Ah Yong & Poore, 2004	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus macquariae</i> Schnabel, Burghardt, Ah Yong, 2017	squat lobster	Chirostylidae		Sp, DPS, DPT, RR	New listing
<i>Uroptychus maori</i> Borradaile, 1916	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus megistos</i> Baba, 2018	squat lobster	Chirostylidae		Sp, DPS, DPT	New listing
<i>Uroptychus nieli</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus nigricapillus</i> Alcock, 1901	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus numerosus</i> Baba, 2018	squat lobster	Chirostylidae		Sp, DPS, DPT	New listing
<i>Uroptychus palmaris</i> Baba, 2018	squat lobster	Chirostylidae		Sp, DPS, DPT	New listing
<i>Uroptychus plumella</i> Baba, 2018	squat lobster	Chirostylidae		Sp, DPS, DPT	New listing
<i>Uroptychus politus</i> (Henderson, 1885)	squat lobster	Chirostylidae		Sp	New listing
<i>Uroptychus raymondi</i> Baba, 2000	squat lobster	Chirostylidae		Sp	New listing

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Urotychus remotispinatus</i> Baba & Tirmizi, 1979	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus rutua</i> Schnabel, 2009	squat lobster	Chirostylidae		Sp, RR	New listing
<i>Urotychus sadie</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus spinirostris</i> (Ahyong & Poore, 2004)	squat lobster	Chirostylidae		Sp, RR	New listing
<i>Urotychus spinosior</i> Baba, 2018	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus taranui</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus terminalis</i> Baba, 2018	squat lobster	Chirostylidae		Sp, DPS, DPT	New listing
<i>Urotychus thermalis</i> Baba & de Saint Laurent, 1992	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus toka</i> Schnabel, 2009	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus torrancei</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus tracey</i> Ahyong, Schnabel & Baba, 2015	squat lobster	Chirostylidae		Sp, DPS, DPT	New listing
<i>Vulcanolepas oshaei</i> (Buckeridge, 2000)	barnacle	Eolepadidae		DPT, OL, SO	No change
<i>Xenograpsus ngatama</i> McLay, 2007	crab	Xenograpsidae		RR, SO	No change
Bryozoa (2)					
<i>Hastingsia whitteni</i> Taylor, Waeschenbach, Smith & Gordon, 2015	bryozoan	Hastingsiidae		Cl	New listing
<i>Steginoporella lineata</i> Gordon, Voje & Taylor, 2017	bryozoan	Steginoporellidae		RR	New listing
Chordata (1)					
<i>Trididemnum shawi</i> Page, Willis & Handley, 2014	colonial sea squirt	Didemnidae		RR, Sp	New listing
Cnidaria (30)					
<i>Antipathes leptocrada</i> Opreško, 2015	black coral	Antipathidae		Cl, DPS	New listing
<i>Balanophyllia chinous</i> Squires, 1962	coral	Dendrophylliidae		Cl	No change
<i>Callogorgia dichotoma</i> Cairns, 2016	sea fan	Primnoidae		OL	New listing
<i>Callozostxon pinnatum</i> Cairns, 2016	sea fan	Primnoidae		Sp	No change
<i>Calyptrophora cucullata</i> Cairns, 2012	sea fan	Primnoidae		Sp	No change
<i>Calyptrophora inornata</i> Cairns, 2012	hydroid	Sertulariidae		RR	No change
<i>Crateritheca novaezelandiae</i> (Thompson, 1879)	red hydrocoral	Stylasteridae		Sp, Cl, DPT	No change
<i>Erina bicolor</i> Cairns, 1991	red hydrocoral	Stylasteridae		Sp, Cl, DPT	No change
<i>Erina chathamensis</i> Cairns, 1991	red hydrocoral	Stylasteridae		Sp, Cl, DPT	No change
<i>Erina cheilopora</i> Cairns, 1983	red hydrocoral	Stylasteridae		Sp, Cl, DPT	No change
<i>Erina laevigata</i> Cairns, 1991	red hydrocoral	Stylasteridae		Sp, Cl, DPS, DPT	No change
<i>Erina reticulata</i> Cairns, 1991	red hydrocoral	Stylasteridae		Sp, Cl, DPT	No change

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Table 6 continued

ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Erina sinuosa</i> Cairns, 1991	red hydrocoral	Stylasteridae		Sp, Ci, DPT, RR	No change
<i>Falcatoflabellum raoulensis</i> Cairns, 1995	stony cup coral	Fiabellidae		CI, RR	No change
<i>Gonaxia australis</i> Vervoort & Watson, 2003	hydroid	Sertulariidae		DPS, DPT	New listing
<i>Gonaxia immersa</i> Vervoort & Watson, 2003	hydroid	Sertulariidae		DPS, DPT	New listing
<i>Keratopsis glaesca</i> Grant, 1976	bamboo coral	Isididae		Sp, CI	No change
<i>Keratopsis hikurangiensis</i> Grant, 1976	bamboo coral	Isididae		Sp, CI	No change
<i>Keratopsis magnifica</i> Dueñas, Alderslade & Sanchez, 2014	bamboo coral	Isididae		Sp, CI, DPT	No change
<i>Keratopsis projecta</i> Grant, 1976	bamboo coral	Isididae		Sp, CI	No change
<i>Keratopsis zelandica</i> Grant, 1976	bamboo coral	Isididae		Sp, CI	No change
<i>Lilipathes lillei</i> (Totton, 1923)	black coral	Schizopathidae		CI, RR, S?O	No change
<i>Narella hypocalyx</i> Cairns, 2012	sea fan	Primnoidae		DPT, Sp	No change
<i>Narella mesolepis</i> Cairns, 2012	sea fan	Primnoidae		DPT, RR, Sp	No change
<i>Narella vulgaris</i> Cairns, 2012	sea fan	Primnoidae		DPT, Sp	No change
<i>Narelloides crinitus</i> Cairns, 2012	sea fan	Primnoidae		DPT, RR, Sp	Neutral
<i>Oculina virgosa</i> Squires, 1958	coral	Oculinidae		CI, RR	No change
<i>Primnoella insularis</i> Cairns, 2016	coral	Primnoidae		DPS, DPT	New listing
<i>Primnois chatham</i> Moore, Alderslade & Miller, 2016	bamboo coral	Isididae		CI, DPT	New listing
<i>Sphenotrochus squiresi</i> Cairns, 1995	stony cup coral	Turbinoliidae		CI, DPT, RR	No change
Echinodermata (1)					
<i>Eurygonias hylacanthus</i> Farquhar, 1913	pin-cushion star	Odontasteridae		Sp, RR	No change
Mollusca (157)					
<i>Acrosterigma sorensoni</i> (Powell, 1967)	clam	Cardiidae		RR	No change
<i>Aforia watsoni</i> Kantor, Harasewych & Puillandre, 2016	sea snail	Cochlespiridae		CI	New listing
<i>Alvania kermadecensis</i> (W.R.B. Oliver, 1915)	sea snail	Rissoidea		CI, RR	No change
<i>Annulobalcis marshalli</i> Warén, 1981	sea snail	Eulimidae		RR	No change
<i>Archimnolia dawsoni</i> (B.A. Marshall, 1979)	top shell	Solarieidae		DPS, DPT, RR	No change
<i>Archimnolia hurleyi</i> (B.A. Marshall, 1979)	top shell	Solarieidae		DPS, DPT, RR	No change
<i>Bathyaustriella thionipta</i> Glover, Taylor & Rowden, 2004	bivalve	Lucinidae		RR	No change
<i>Bathyauctor rapuhia</i> B.A. Marshall, 1995	sea snail	Calliostomatidae		RR	No change
<i>Bathymophila valentia</i> B.A. Marshall, 1999	top shell	Solarieidae		RR	No change
<i>Benthocardiella obliquata</i> bournyensis Powell, 1933	clam	Condylocardiidae		DPS, DPT, RR	No change
<i>Bestia insularis</i> (W.R.B. Oliver, 1915)	sea snail	Pyramidellidae		RR	No change

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Table 6 continued

ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Bolma kermadecensis</i> Beu & Ponder, 1979	top shell	Turbinidae		RR	No change
<i>Brookula stibarochilia</i> Iredale, 1912	sea snail	Seguenzioidae <i>incertae sedis</i>		RR	No change
<i>Buccipagoda achilles</i> B.A. Marshall & Walton, 2018	Achilles whelk	Buccinoidea <i>incertae sedis</i>		DPR, DPS, RR	No change
<i>Caecum maori</i> Pizzini & Raines, 2006	sea snail	Caecidae		RR	No change
<i>Calliostoma peregrinum</i> B.A. Marshall, 1995	top shell	Calliostomatidae		RR, SO?	No change
<i>Calliostoma xanthos</i> B.A. Marshall, 1995	top snail	Calliostomatidae		SO, Sp	No change
<i>Calliotropis crystallophorus</i> B.A. Marshall, 1980	top shell	Calliostomatidae		DPS, DPT, RR	No change
<i>Cancilla kermadecensis</i> (Cernohorsky, 1978)	sea snail	Mitridae		RR	No change
<i>Cantharidus antipoda hinemoa</i> (Powell, 1955)	top shell	Trochidae		RR	No change
<i>Cantharidus burchorum</i> B.A. Marshall, 1998	top shell	Trochidae		RR	No change
<i>Cantharidus festivus</i> (B.A. Marshall, 1998)	top shell	Trochidae		RR	No change
<i>Carinastele coronata</i> B.A. Marshall, 1988	top shell	Calliostomatidae		DPS, DPT, RR	No change
<i>Carinastele jugosa</i> B.A. Marshall, 1988	top shell	Calliostomatidae		DPS, DPT, RR	No change
<i>Carinastele kristelleae</i> B.A. Marshall, 1988	top shell	Calliostomatidae		RR	No change
<i>Cellana craticulata</i> (Suter, 1905)	limpet	Nacellidae		RR	No change
<i>Cellana oliveri</i> Powell, 1955	limpet	Nacellidae		RR	No change
<i>Chiton themeropsis</i> (Iredale, 1914)	chiton	Chitonidae		RR	No change
<i>Ciclopecten fluctuatus</i> (Bavay, 1905)	scallop	Pectinidae		DPS, DPT, RR, SO	No change
<i>Cirroctopus hochbergi</i> O'Shea, 1999	octopus	Cirroctopodidae		DPT, Sp	No change
<i>Cirsonella laxa</i> Powell, 1937	sea snail	Skeneidae		RR	No change
<i>Cirsonella maoria</i> Powell, 1937	sea snail	Skeneidae		RR	No change
<i>Cirsonella paradoxa</i> Powell, 1937	sea snail	Skeneidae		RR	No change
<i>Cianculus atypicus</i> Iredale, 1912	top shell	Trochidae		RR	No change
<i>Coelotrochus carinatus</i> (B.A. Marshall, 1998)	top shell	Trochidae		RR	No change
<i>Coelotrochus polychromus</i> (B.A. Marshall, 1998)	top shell	Trochidae		RR	No change
<i>Coelotrochus rex</i> (B.A. Marshall, 1998)	top shell	Trochidae		RR	No change
<i>Cominella quoyana griseicax</i> Willan, 1978	whelk	Cominellidae		RR	No change
<i>Cominella regalis</i> Willan, 1978	whelk	Cominellidae		RR	No change
<i>Cornisepta festiva</i> (Crozier, 1966)	limpet	Fissurellidae		RR	No change
<i>Crassatina iredalei</i> (Powell, 1958)	clam	Crassatellidae		RR	No change
<i>Crosseola favosa</i> Powell, 1937	top shell	Conradidae		RR	No change

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Crosseola intertexta</i> Powell, 1937	top shell	Conradiidae		RR	No change
<i>Cyclochlams pileolus</i> Dijkstra & B.A. Marshall, 2008	scallop	Cyclochlamydidae		DPS, DPT, RR	No change
<i>Cyclopecten fluctuosus</i> Dijkstra & B.A. Marshall, 2008	scallop	Propeamussiidae		DPS, DPT, RR	No change
<i>Cyclopecten horridus</i> Dijkstra, 1995	scallop	Propeamussiidae		DPS, DPT, RR	No change
<i>Cyclopecten kermadecensis</i> (E.A. Smith, 1885)	scallop	Propeamussiidae		DPS, DPT, OL	No change
<i>Dilemma inexpectatum</i> (Crozier, 1966)	clam	Poromyidae		RR	No change
<i>Diodora bollonsi</i> (W.R.B. Oliver, 1915)	limpet	Fissurellidae		RR	No change
<i>Eatoniella iredalei</i> (W.R.B. Oliver, 1915)	sea snail	Eatoniellidae		RR	No change
<i>Emarginula connectens</i> Thiele, 1915	limpet	Fissurellidae			No change
<i>Epigrus gracilis</i> W.R.B. Oliver, 1915	sea snail	Epigridae			No change
<i>Epigrus insularis</i> W.R.B. Oliver, 1915	sea snail	Epigridae		RR	No change
<i>Erema hedleyi</i> W.R.B. Oliver, 1915	whelk	Clathurellidae		RR	No change
<i>Eulimella inexpectata</i> (W.R.B. Oliver, 1915)	sea snail	Pyramidellidae		RR	No change
<i>Fautor consobrinus</i> Powell, 1958	top shell	Calliostomatidae		RR	No change
<i>Fautrix candida</i> B.A. Marshall, 1995	top shell	Calliostomatidae		RR	No change
<i>Fictonoba oliveri</i> (Powell, 1927)	sea snail	Barleeidae		RR	No change
<i>Fissurisepta manawatawhia</i> (Powell, 1937)	limpet	Fissurellidae		RR	No change
<i>Fuscipex ophiacanthicola</i> Warén, 1981	sea snail	Eulimidae		DPS, DPT, OL, RR	No change
<i>Fusculima goodingi</i> Warén, 1981	sea snail	Eulimidae		DPS, DPT, OL, RR	No change
<i>Gigantidas gladius</i> Cosel & B.A. Marshall, 2003	giant vent mussel	Mytilidae		RR	No change
<i>Graphis sculpturata</i> (W.R.B. Oliver, 1915)	sea snail	Cimidae		RR	No change
<i>Grippina acherontis</i> B.A. Marshall, 2002	clam	Spheniopsidae		OL, RR	No change
<i>Grippina globosa</i> B.A. Marshall, 2002	clam	Spheniopsidae		RR	No change
<i>Grippina pumila</i> B.A. Marshall, 2002	clam	Spheniopsidae		RR	No change
<i>Grippina spirata</i> B.A. Marshall, 2002	clam	Spheniopsidae		RR	No change
<i>Hepetopoma pruinosa</i> (B.A. Marshall, 1979)	top shell	Chilodontaidae		RR	No change
<i>Hexaplex puniceus</i> W.R.B. Oliver, 1915	whelk	Murcidae		RR	No change
<i>Hinemoa punicea</i> W.R.B. Oliver, 1915	sea snail	Pyramidellidae		RR	No change
<i>Hirtomurex tangaroa</i> B.A. Marshall & Oliverio, 2009	sea snail	Murcidae		RR	No change
<i>Hirtomurex taranui</i> B.A. Marshall & Oliverio, 2009	sea snail	Murcidae		RR	No change
<i>Hunfydora rakiura</i> B.A. Marshall, 2002	clam	Myochamidae		RR	No change
<i>Idioteuthis cordiformis</i> (Chun, 1908)	squid	Mastigoteuthidae		DPS, DPT, SO, Sp	No change

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Iredalea subtropicalis</i> W.R.B. Oliver, 1915	whelk	Drillidae		RR	No change
<i>Kermia benhami</i> W.R.B. Oliver, 1915	whelk	Raphitomidae		RR	No change
<i>Laevilitorina antipodum</i> (Filhol, 1880)	sea snail	Littorinidae		RR	No change
<i>Laevilitorina bifasciata</i> Suter, 1913	sea snail	Littorinidae		RR	No change
<i>Laevilitorina delli</i> (Powell, 1955)	sea snail	Littorinidae		RR	No change
<i>Larochaea spirata</i> Geiger & B.A. Marshall, 2012	snail	Larochaeidae		RR	No change
<i>Larochaeopsis amplexa</i> B.A. Marshall, 1993	snail	Larochaeidae		RR	No change
<i>Leptochiton norfolcensis subtropicalis</i> (Iredale, 1914)	chiton	Leptochitonidae		RR	No change
<i>Leptothyra benthicola</i> B.A. Marshall, 1979	top shell	Colloniidae		RR	No change
<i>Leptothyra kermadecensis</i> B.A. Marshall, 1979	top shell	Colloniidae		RR	No change
<i>Lienardia roseocincta</i> (W.R.B. Oliver, 1915)	whelk	Clathurellidae		RR	No change
<i>Lisostea conoidea</i> Powell, 1937	sea snail	Skeneidae		RR	No change
<i>Lutaria bruuni</i> Powell, 1967	clam	Mactridae		DPS, DPT, OL, RR	No change
<i>Maurea antipodensis</i> (B.A. Marshall, 1995)	top snail	Calliostomatidae		RR	No change
<i>Maurea benthicola</i> (Del., 1950)	top snail	Calliostomatidae		RR	No change
<i>Maurea emimens</i> (B.A. Marshall, 1995)	top shell	Calliostomatidae		RR	No change
<i>Maurea gibbsorum</i> (B.A. Marshall, 1995)	top shell	Calliostomatidae		RR	No change
<i>Maurea jamiesoni</i> (B.A. Marshall, 1995)	top shell	Calliostomatidae		RR	No change
<i>Melanella kermadecensis</i> W.R.B. Oliver, 1915	sea snail	Eulimidae		RR	No change
<i>Melanella luminosa</i> B.A. Marshall, 1997	sea snail	Eulimidae		RR	No change
<i>Melanella perplexa</i> W.R.B. Oliver, 1915	sea snail	Eulimidae		RR	No change
<i>Melanella spinosa</i> W.R.B. Oliver, 1915	sea snail	Eulimidae		RR	No change
<i>Metaxia kermadecensis</i> B.A. Marshall, 1977	sea snail	Eulimidae		RR	No change
<i>Micropilina rakiura</i> B.A. Marshall, 1998	sea snail	Triphoridae		RR	No change
<i>Micropilina tangaroa</i> B.A. Marshall, 1990	monoplacophoran limpet	Neopilinidae		RR	No change
<i>Mitromorpha expeditionis</i> W.R.B. Oliver, 1915	monoplacophoran limpet	Neopilinidae		DPS, DPT, RR	No change
<i>Monilea incerta</i> Iredale, 1912	whelk	Mitromorphidae		RR	No change
<i>Munditia anomala</i> Powell, 1940	top shell	Trochidae		RR	No change
<i>Munditia aupouria</i> Powell, 1937	sea snail	Liotidae		RR	No change
<i>Munditia delicatula</i> Powell, 1940	sea snail	Liotidae		RR	No change
<i>Munditia echinata</i> Powell, 1937	sea snail	Liotidae		RR	No change
<i>Munditia manawatawhia</i> Powell, 1937	sea snail	Liotidae		RR	No change

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Mysella tellinula</i> (Odhner, 1924)	clam	Lasaeidae		RR	No change
<i>Onithochiton oliveri</i> (Iredale, 1914)	chiton	Chitonidae		RR	No change
<i>Ophieulima fuscoapicata</i> Warén, 1981	sea snail	Eulimidae		DPS, DPT, OL	No change
<i>Opisthoteuthis chathamensis</i> O'Shea, 1999	octopus	Opisthoteuthidae		DPS, DPT, Sp	No change
<i>Oxyperas belliana</i> (W.R.B. Oliver, 1915)	clam	Mastridae		RR	No change
<i>Penion lineatus</i> B.A. Marshall, Hills & Vaux, 2018	Three Kings siphon whelk	Buccinidae		RR	New listing
<i>Phenacomargarites incomptus</i> B.A. Marshall, 2016	top shell	Calliostomatidae		DPS, Sp	New listing
<i>Phenacomargarites titan</i> B.A. Marshall, 2016	top shell	Calliostomatidae		DPS	New listing
<i>Philorene texturata</i> W.R.B. Oliver, 1915	sea snail	Skeneidae		RR	No change
<i>Pronucula kermadecensis</i> W.R.B. Oliver, 1915	clam	Nuculidae		RR	No change
<i>Pteria avicular</i> (Holten, 1802)	mussel	Pteriidae		DPS, DPT, RR, SO	No change
<i>Punctifera ophiomoerae</i> Warén, 1981	sea snail	Eulimidae		DPS, DPT, OL	No change
<i>Purpurocardia reinga</i> (Powell, 1933)	clam	Carditidae		RR	No change
<i>Pusillina wallacei</i> (W.R.B. Oliver, 1915)	sea snail	Rissoidea		RR	No change
<i>Pyramidelloides suteri</i> (W.R.B. Oliver, 1915)	sea snail	Eulimidae		RR	No change
<i>Rastodens electra</i> (W.R.B. Oliver, 1915)	sea snail	Rastodontidae		RR	No change
<i>Rhyssoplax exasperata</i> Iredale, 1914	chiton	Chitonidae		RR	No change
<i>Rokopella capulus</i> B.A. Marshall, 2006	monoplacophoran limpet	Micropliiidae			No change
<i>Ruapukea allanae</i> E.C. Smith, 1962	sea snail	Eulimidae		DPS, DPT, RR	New listing
<i>Ruapukea carolus</i> Dell, 1952	sea snail	Eulimidae		DPS, DPT, RR	No change
<i>Satondella bicristata</i> Geiger & B.A. Marshall, 2012	slit shell	Scissurellidae		RR	No change
<i>Scissurella bountiensis</i> Powell, 1933	slit shell	Scissurellidae		RR	No change
<i>Scissurella fairchildi</i> Powell, 1933	slit shell	Scissurellidae		RR	No change
<i>Scutellastra kermadecensis</i> (Pilsbry, 1894)	limpet	Patellidae		RR	No change
<i>Selastele kopua</i> (B.A. Marshall, 1995)	top shell	Calliostomatidae		RR	No change
<i>Selastele limatulum</i> (B.A. Marshall, 1995)	top shell	Calliostomatidae		RR	No change
<i>Selastele onustum</i> (Odhner, 1924)	top shell	Calliostomatidae		RR	No change
<i>Serrata raoullica</i> B.A. Marshall, 2004	sea snail	Marginellidae		RR	No change
<i>Sinezona brucei</i> Geiger, 2012	slit shell	Scissurellidae		RR	No change
<i>Sinezona enigmatica</i> Geiger & B.A. Marshall, 2012	slit shell	Scissurellidae		OL	No change
<i>Sinezona pacifica</i> (W.R.B. Oliver, 1915)	slit shell	Scissurellidae		RR	No change
<i>Sinezona platyspira</i> Geiger & B.A. Marshall, 2012	slit shell	Scissurellidae		RR	No change

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Spondylus raoulensis</i> W.R.B. Oliver, 1915	clam	Spondyliidae		RR	No change
<i>Stomatella oliveri</i> (Iredale, 1912)	top shell	Trochidae		RR	No change
<i>Striatestea bountyensis</i> Powell, 1927	sea snail	Rissoidae		RR	No change
<i>Striatestea eulima</i> Powell, 1940	sea snail	Rissoidae		RR	No change
<i>Striatestea poutama</i> Ponder, 1967	sea snail	Rissoidae		RR	No change
<i>Sundaya exquisita</i> W.R.B. Oliver, 1915	sea snail	Cerithiopsidae		RR	No change
<i>Suterilla imperforata</i> Fukuda, Ponder & B.A. Marshall, 2006	sea snail	Assimineidae		RR	No change
<i>Tectus royanus</i> (Iredale, 1912)	top shell	Tegulidae		RR	No change
<i>Tornus aupouria</i> (Powell, 1937)	sea snail	Tornidae		RR	No change
<i>Tornus maoria</i> (Powell, 1937)	sea snail	Tornidae		RR	No change
<i>Tristichotrochus gendalli</i> (B.A. Marshall, 1979)	top shell	Callicostomatidae		RR	No change
<i>Trophon subtropicalis</i> Iredale, 1912	whelk	Muricidae		RR	No change
<i>Tropidofusus ypotethys</i> Harasewych, 2019	pagoda shell	Columbellidae			New listing
<i>Vanikoro wallacei</i> Iredale, 1912	sea snail	Vanikoridae		RR	No change
<i>Venustatrochus ecleetus</i> B.A. Marshall, 2016	top shell	Callicostomatidae		SO	New listing
<i>Vexillum iredalei</i> (Powell, 1958)	sea snail	Costellariidae		RR	No change
<i>Zafra fuscolineata</i> W.R.B. Oliver, 1915	sea snail	Columbellidae		RR	No change
<i>Zafra kermadecensis</i> W.R.B. Oliver, 1915	sea snail	Columbellidae		RR	No change
<i>Zygoceras tropidophora</i> Warén & Bouchet, 1991	sea snail	Haloceratidae		DPS, DPT, OL, SO	No change
Nematoda (14)					
<i>Odontophora atrox</i> Leduc & Zhao, 2016	marine nematode	Axonolaimidae		DPS, DPT	New listing
<i>Pararamphimomhystrella scutula</i> Leduc, 2014	marine nematode	Xyalidae		DPS, DPT	New listing
<i>Pararaeolaimus tetradenus</i> Leduc, 2017	marine nematode	Diplopeltidae		DPS, DPT	New listing
<i>Sabatieria challengerensis</i> Leduc, 2013	marine nematode	Comesomatidae		DPS, DPT	New listing
<i>Sabatieria dispunctata</i> Rosli, Leduc & Probert, 2014	marine nematode	Comesomatidae		DPS, DPT	New listing
<i>Sabatieria exculta</i> Leduc, 2013	marine nematode	Comesomatidae		DPS, DPT	New listing
<i>Sabatieria megadana</i> Leduc, 2017	marine nematode	Comesomatidae		DPS, DPT	New listing
<i>Sabatieria parapracedatrix</i> Leduc, 2013	marine nematode	Comesomatidae		DPS, DPT	New listing
<i>Sabatieria pumila</i> Leduc, 2013	marine nematode	Comesomatidae		DPS, DPT	New listing
<i>Spirinia verecunda</i> Leduc & Verschelde, 2015	marine nematode	Desmodoridae		DPS, DPT	New listing
<i>Thelonema clarki</i> Leduc, 2015	marine nematode	Linhomoeidae		DPS, DPT	New listing

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ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Trefusia piperata</i> Leduc, 2013	marine nematode	Trefusiidae		DPS, DPT	New listing
<i>Trefusialaimus idrisi</i> Leduc, 2013	marine nematode	Trefusiidae		DPS, DPT	New listing
<i>Vasostoma hexodontium</i> Rosli, Leduc & Probert, 2014	marine nematode	Comesomatidae		DPS, DPT	New listing
Porifera (5)					
<i>Aulocalyx australis</i> Reiwig & Kelly, 2011	glass sponge	Aulocalycidae		DPR, DPS, RR, Sp	No change
<i>Auloplax breviscopulata</i> Reiwig & Kelly, 2011	glass sponge	Auloplacidae		DPR, DPS, RR, Sp	No change
<i>Hexactinella simplex</i> Reiwig & Kelly, 2011	glass sponge	Tretodictyidae		DPS, Sp	No change
<i>Pseudosuberites thurberi</i> Kelly & Rowden, 2019	sponge	Suberitidae		Sp, DPS, DPT, RR	New listing
<i>Regadrella pedunculata</i> Reiwig & Kelly, 2018	Venus basket sponge	Euplectellidae		Sp, DPS, DPT	New listing
Taxonomically unresolved (90)					
Bryozoa (1)					
<i>Alcyonidium</i> n. sp. 1 Leigh Reserve	scarlet alcyonidium	Alcyoniidae		DPT, OL	No change
Cnidaria (4)					
<i>Acanella</i> spp.	bamboo coral	Isididae		CI, SO	No change
<i>Antipathes</i> n. sp.	black coral	Antipathidae		CI, RR	No change
<i>Chathamisis</i> spp. Kermadec Ridge	bamboo coral	Isididae		Sp, CI, DPS, DPT	No change
<i>Gonaxia</i> sp. (NZOI)	hydroid	Sertulariidae		DPR, DPS, DPT, OL, RR	No change
Mollusca (64)					
<i>Abra</i> sp. (NMINZ M.225609)	clam	Semelidae		DPS, RR	No change
<i>Armaa</i> sp. (NZOI TAN0107.233)	sea snail	Epitonidae		DPS, DPT, RR, SO?	No change
<i>Amygdalum</i> sp. (NMINZ M.147338)	mussel	Mytilidae		DPS, DPT, SO?, Sp	No change
<i>Anabathron</i> sp. aff. <i>ovatus</i> (NMINZ M.227089) (Powell, 1927)	sea snail	Anabathridae		RR	No change
<i>Ancistrobasis</i> sp. (NZOI TAN0107.232)	top shell	Seguenziidae		DPS, DPT, RR	No change
<i>Argalista</i> sp. A (NMINZ M.148551)	top shell	Collonidae		RR	No change
<i>Argalista</i> sp. B (NMINZ M.148552)	top shell	Collonidae		RR	No change
<i>Arthritica</i> sp. 5 (NMINZ M.274066)	clam	Galeommatidae		OL	New listing
<i>Asterophila</i> sp. 1	sea snail	Eulimidae		DPS, DPT, RR	No change
<i>Belomitra</i> sp. (NZOI TAN0107.127)	whelk	Belomitridae		DPR, DPS, RR	No change
<i>Benthocardiella</i> sp. A (NMINZ M.148673)	clam	Condylocardiidae		RR	No change
<i>Benthocardiella</i> sp. B (NMINZ M.148674)	clam	Condylocardiidae		RR	No change
<i>Benthocardiella</i> sp. C (NMINZ M.148675)	clam	Condylocardiidae		RR	No change
<i>Benthocardiella</i> sp. D (NMINZ M.148676)	clam	Condylocardiidae		RR	No change

Continued on next page

Table 6 continued

ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Calliostoma</i> sp. (NZOI TAN107.233)	top shell	Calliostomatidae		RR	No change
<i>Calliotropis</i> sp. A (NIMNZ M.152747)	top shell	Calliostomatidae		DPS, DPT, RR	No change
<i>Calliotropis</i> sp. B (NIMNZ M.152735)	sea snail	Calliostomatidae		DPS, DPT, RR	No change
<i>Cantharidus</i> sp. A (NIMNZ M.59506)	top shell	Trochidae		RR	No change
<i>Cantharidus</i> sp. B (NIMNZ M.131607)	top shell	Trochidae		RR	No change
<i>Cantrainea</i> sp. A (NZOI TAN0107.323)	top shell	Colloniidae		DPS, DPT, RR	No change
<i>Cantrainea</i> sp. B (NZOI TAN0107.323)	top shell	Colloniidae		DPS, DPT, RR	No change
<i>Cantrainea</i> sp. C (NZOI TAN0107.235)	top shell	Colloniidae		DPS, DPT, RR	No change
<i>Carditella</i> sp. (NIMNZ M.20766)	clam	Condylocardiidae		RR	No change
<i>Ciathrosepta</i> sp. (NZOI U608)	limpet	Fissurellidae		DPS, DPT, RR	No change
<i>Conchocele</i> sp. (NIMNZ M.28418)	clam	Thyasiridae		RR	No change
<i>Condylocuna</i> sp. A (NIMNZ M.144652)	clam	Condylocardiidae		RR	No change
<i>Condylocuna</i> sp. B (NIMNZ M.144656)	clam	Condylocardiidae		RR	No change
<i>Condylocuna</i> sp. C (NIMNZ M.144657)	clam	Condylocardiidae		RR	No change
<i>Condylocuna</i> sp. D (NIMNZ M.144658)	clam	Condylocardiidae		RR	No change
<i>Cranopsis</i> sp. (NZOI TAN107.323)	limpet	Fissurellidae		RR	No change
<i>Cyamiomactra</i> sp. A (NIMNZ M.60854)	clam	Cyamiidae		RR	No change
<i>Cyamiomactra</i> sp. B (NIMNZ M.33947)	clam	Cyamiidae		RR	No change
<i>Danilia</i> sp. (NZOI U599)	top shell	Chilodontidae		DPS, DPT, RR	No change
<i>Discoctonica acutissima</i> (NZOI TAN0107.122) (Sowerby, 1914)	sea snail	Architectonicidae		DPS, DPT, RR, SO	No change
<i>Eosipho</i> sp. (NIMNZ M.150056)	whelk	Buccinidae		RR	No change
<i>Fissurellidae</i> sp. 1. (NIMNZ M.118002)	limpet	Fissurellidae		RR	No change
<i>Fissurisepta</i> sp. (NIMNZ M.138467)	limpet	Fissurellidae		RR	No change
<i>Granata</i> sp. (NIMNZ M.148566)	top shell	Chilodontidae		RR	No change
<i>Haloceras</i> sp. 1 (NZOI U573)	sea snail	Haloceratidae		DPS, DPT, OL, RR	No change
<i>Haloceras</i> sp. 2 (NZNM M.147782)	sea snail	Haloceratidae		DPS, DPT, OL, RR	No change
<i>Haloceras</i> sp. 3 (NZOI P941)	sea snail	Haloceratidae		DPS, DPT, OL, RR	No change
<i>Hamacuna</i> sp. A (NIMNZ M.143347)	clam	Carditidae		RR	No change
<i>Hamacuna</i> sp. B (NIMNZ M.149015)	clam	Carditidae		RR	No change
<i>Herpetopoma</i> sp. (NZOI TAN0107.233)	top shell	Chilodontidae		RR	No change
<i>Kaiparapelta</i> sp. (NIMNZ M.137534)	limpet	Pseudococculinidae		DPS, DPT, RR	No change
<i>Kidderia</i> sp. (NIMNZ M.134975)	clam	Cyamiidae		RR	No change

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Table 6 continued

ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Meiocardita</i> sp. (NZOI T256)	clam	Glossidae		DPS, DPT, RR, SO?	No change
<i>Merelina</i> sp. A (NIMNZ M.148669)	sea snail	Lironobidae		RR	No change
<i>Merelina</i> sp. B (NIMNZ M.148670)	sea snail	Lironobidae		RR	No change
<i>Merelina</i> sp. C (NIMNZ M.148671)	sea snail	Lironobidae		RR	No change
<i>Merelina</i> sp. D (NIMNZ M.148668)	sea snail	Lironobidae		RR	No change
<i>Mitrella</i> sp. A (NZOI TAN0107.233)	whelk	Columbellidae		DPS, DPT, RR	No change
<i>Mitrella</i> sp. B (NZOI TAN0107.323)	whelk	Columbellidae		DPS, DPT, RR	No change
<i>Mysella</i> sp. (NIMNZ M.51502)	clam	Lasaeidae		RR	No change
<i>Nassarius</i> sp. (NZOI TAN0107.218)	whelk	Nassariidae		RR	No change
Neolepetopsidae sp. (NIMNZ M.158228)	seep limpet	Neolepetopsidae		DPS, RR	No change
<i>Niso</i> sp. (NZOI TAN0107.225)	sea snail	Eulimidae		DPS, DPT, RR	No change
<i>Olgasolaris</i> sp. (NZOI TAN0107.228)	vent limpet	Phenacolepadidae		DPS, DPT, RR	No change
<i>Pectunculina</i> sp. (NIMNZ M.225313)	clam	Limopsidae		DPS, DPT, RR	No change
Peltospiridae sp. A (NZOI Z9504)	vent limpet	Peltospiridae		DPS, DPT, RR	No change
Peltospiridae sp. B (NZOI Z9504)	vent limpet	Peltospiridae		DPS, DPT, RR	No change
Peltospiridae sp. C (NZOI Z9504)	vent limpet	Peltospiridae		DPS, DPT, RR	No change
<i>Perrierina</i> sp. (NIMNZ M.96189)	clam	Cyamiidae		RR	No change
<i>Phymorhynchus</i> sp. (NZOI KAH11.21)	whelk	Raphitomidae		DPS, DPT	No change
<i>Pleuromeris</i> sp. (NIMNZ M.148741)	clam	Carditidae		RR	No change
<i>Profundisepta</i> sp. A (NIMNZ M.148575)	limpet	Fissurellidae		RR	No change
<i>Profundisepta</i> sp. B (NIMNZ M.138462)	limpet	Fissurellidae		RR	No change
<i>Pteria</i> sp. (NIMNZ M.158247)	mussel	Pteridae		RR	No change
<i>Puncturella</i> sp. (NZOI U601)	limpet	Fissurellidae		DPS, DPT, RR	No change
<i>Rimulanax</i> sp. (NIMNZ M.225598)	limpet	Fissurellidae		DPS, DPT, RR	No change
<i>Serrata</i> sp. A (NIMNZ M.227078)	sea snail	Marginellidae		RR	No change
<i>Skeneoides</i> sp. (NIMNZ M.148557)	sea snail	Skeneidae		OL	No change
<i>Solarieella</i> sp. A (NZOI TAN0107.233)	top shell	Solarieellidae		DPS, DPT, RR	No change
<i>Solarieella</i> sp. B (NZOI TAN107.225)	top shell	Solarieellidae		DPS, DPT, RR	No change
<i>Solarieella</i> sp. C (NZOI W672)	top shell	Solarieellidae		DPS, DPT, RR	No change
<i>Solatisonax</i> aff. <i>alleryi</i> (NZOI TAN107.053)	sea snail	Architectonicidae		DPS, DPT, RR	No change
<i>Solecurtus</i> sp. (NIMNZ M.225439)	clam	Solecurtidae		DPS, DPT, RR	No change
<i>Stilapex</i> sp. (NIMNZ M.232084)	snail	Eulimidae		OL	No change

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Table 6 continued

ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Stilifer</i> sp. (NMNZ M.150057)	sea snail	Eulimidae		DPS, DPT, OL	No change
<i>Talabrica</i> sp. (NMNZ M.137651)	clam	Crassatellidae		RR	No change
<i>Tegulaplax</i> sp. (NZOI TAN0107.235)	chiton	Chitonidae		DPS, DPT, RR	No change
<i>Thysanodonta</i> sp. (NMNZ M.152736)	top shell	Calliostomatidae		DPS, DPT, RR	No change
<i>Tugali</i> sp. (NMNZ M.36012)	limpet	Fissurellidae		RR	No change
<i>Turbinellidae</i> sp. (NZOI TAN0107.134)	whelk	Turbinellidae		DPS, DPT, RR	No change
Porifera (1)					
<i>Lissodendoryx</i> sp. (NIWA 144414 & 144495) "yellow slimy"	sponge	Coelosphaeriidae		DPS, DPT, RR	No change
NOT THREATENED (85)					
Taxonomically determinate (84)					
Arthropoda (16)					
<i>Austrosyrrhoe kathleenae</i> Lörz & Coleman, 2013	marine amphipod	Synopiidae			New listing
<i>Bryoconversor tutus</i> Lörz, Myers & Gordon, 2014	sand hopper	Chevaliidae			New listing
<i>Cyclaspis zealandiaensis</i> Gerken, 2013	comma shrimp	Bodotriidae		Sp, DPS, DPT	New listing
<i>Gastrotychus novaezealandiae</i> Baba, 1974	squat lobster	Chirostylidae		Sp	New listing
<i>Hemilimnops impellucidus</i> Gerken, 2018	comma shrimp	Lampropiidae		Sp, DPS, DPT	New listing
<i>Ilerastroe neumannae</i> Lörz & Coleman, 2013	marine amphipod	Synopiidae			New listing
<i>Leptostylis zealandiensis</i> Gerken, 2015	comma shrimp	Diastylidae		Sp, DPS, DPT	New listing
<i>Lithodes actearoa</i> Ahyong, 2010	king crab	Lithodidae		Sp	No change
<i>Megacalanus ericae</i> Bradford-Grieve, Blanco-Bercial & Boxshall, 2017	copepod	Megacalanidae		DPS, DPT	New listing
<i>Neolithodes brodiei</i> Dawson & Yaldwyn, 1970	king crab	Lithodidae		Sp	No change
<i>Syrrhoites ebberrae</i> Lörz & Coleman, 2013	marine amphipod	Synopiidae			New listing
<i>Syrrhoites hannahae</i> Lörz & Coleman, 2013	marine amphipod	Synopiidae			New listing
<i>Syrrhoites octodentata</i> Lörz & Coleman, 2013	marine amphipod	Synopiidae			New listing
<i>Urotychus alcocki</i> Ahyong & Poore, 2004	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus belli</i> Schnabel, 2020	squat lobster	Chirostylidae		Sp	New listing
<i>Urotychus tomentosus</i> Baba, 1974	squat lobster	Chirostylidae		Sp	New listing
Bryozoa (15)					
<i>Amathia zealandica</i> Gordon & Spencer Jones, 2013	bryozoan	Vesiculariidae		Cl	New listing
<i>Bountyella morgani</i> Gordon, 2014	bryozoan	Smittinidae		Sp	New listing
<i>Celleporaria agglutinans</i> (Hutton, 1873)	Tasman Bay coral	Lepraliellidae		St	No change

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Table 6 continued

ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Cheilonellopsis inflata</i> Gordon, 2014	bryozoan	Lacernidae		Cl	New listing
<i>Cinctipora elegans</i> Hutton, 1873	bryozoan	Cinctiporidae		St	No change
<i>Hippomenella vellicata</i> (Hutton, 1873)	cornflakes coral	Romancheinidae		St	No change
<i>Olisthella plana</i> Gordon & Taylor, 2017	bryozoan	Calloporidae		Sp	New listing
<i>Otomicropora otus</i> Gordon, 2014	bryozoan	Microporidae		Sp	New listing
<i>Ramicellepora ramosa</i> Gordon, 2014	bryozoan	Celleporidae		DPS	New listing
<i>Scrupocaberea omithorhynchus</i> (Wyville Thomson, 1858)	bryozoan	Candidae		SO	New listing
<i>Steginoporella discors</i> Gordon, Voje & Taylor, 2017	bryozoan	Steginoporellidae		RR	New listing
<i>Taylorus arcuatus</i> (Gordon, 2014)	bryozoan	Escharinidae		St	New listing
<i>Taylorus cylindricus</i> (Gordon, 2014)	bryozoan	Escharinidae		RR	New listing
<i>Virididentula dentata</i> (Lamouroux, 1816)	bryozoan	Bugulidae		SO	New listing
<i>Xenogma rhomboidale</i> (Powell, 1967)	bryozoan	Buffonellodidae		St	New listing
Cnidaria (11)					
<i>Alternatipathes alternata</i> (Brook, 1889)	black coral	Schizopathidae		Cl	New listing
<i>Antipathella fiordensis</i> (Grange, 1990)	black coral	Myriopathidae		Cl	Better
<i>Callogorgia tessellata</i> Cairns, 2016	sea fan	Primnoidae			New listing
<i>Calyptophora diaphana</i> Cairns, 2012	sea fan	Primnoidae		Sp	Neutral
<i>Kulamanamana haumeae</i> Sinniger, Ocaña & Baco, 2013	golden zoanthid coral	Parazoanthidae		Cl, DPT	New listing
<i>Metafannyella chathamensis</i> Cairns, 2016	sea fan	Primnoidae			New listing
<i>Metanarella nannolepis</i> Cairns, 2012	sea fan	Primnoidae		DPT, RR, Sp	Neutral
<i>Nemertesia elongata</i> Totton, 1930	hydroid	Plumulariidae		Sp	Better
<i>Plumarella cordilla</i> Cairns, 2016	hydroid	Primnoidae		DPT	New listing
<i>Primnoisis enryma</i> Moore, Alderslade & Miller, 2016	bamboo coral	Isididae		Cl, DPT	New listing
<i>Solanderia ericopsis</i> (Carter, 1873)	hydroid	Solanderiidae		Sp, DPS, DPT	New listing
Echinodermata (3)					
<i>Anneissia plectrophorum</i> (H.L. Clark, 1916)	feather star	Comatulidae		DPT, S?O	New listing
<i>Araeosoma anatirostrum</i> Anderson, 2013	tam o'shanter sea urchin	Echinothuriidae		SO	New listing
<i>Araeosoma bakeri</i> Anderson, 2013	tam o'shanter sea urchin	Echinothuriidae			New listing
Mollusca (24)					
<i>Alcithoe benthicola</i> (Dell, 1963)	volute	Volutidae		Cl	No change
<i>Alcithoe fissurata</i> (Dell, 1963)	volute	Volutidae			No change
<i>Alcithoe flemingi</i> Dell, 1978	volute	Volutidae			No change

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Table 6 continued

ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Alcithoe larochei</i> Marwick, 1926	volute	Volutidae			No change
<i>Alcithoe lutea</i> (R.B. Watson, 1882)	volute	Volutidae			No change
<i>Archiminolia tenuiseptum</i> B.A. Marshall, 1999	top shell	Solarinellidae			No change
<i>Astraea heliotropium</i> (Martyn, 1784)	circular saw shell	Turbinidae		CI	No change
<i>Cellana strigilis</i> (Hombroen & Jacquinet, 1841)	limpet	Nacellidae		CI	No change
<i>Cycloclamys transenna</i> (Suter, 1913)	scallop	Cycloclamydidae			No change
<i>Magallana gigas</i> (Thunberg, 1793)	Pacific oyster	Ostreidae			New listing
<i>Maurea turnerorum</i> Powell, 1964	top snail	Calliostomatidae			No change
<i>Nacella terroris</i> (Filhol, 1880)	limpet	Nacellidae		RR	Better
<i>Notoacmea badia</i> W.R.B. Oliver, 1926	limpet	Lottiidae			No change
<i>Notoacmea helmsi</i> (E.A. Smith, 1894)	eelgrass limpet	Lottiidae			No change
<i>Profundiconus puillandrei</i> Tenorio & Castelin, 2016	cone shell	Conidae		S?O	New listing
<i>Profundiconus smirnoides</i> Tenorio, 2015	cone shell	Conidae		S?O	New listing
<i>Provocator mirabilis</i> (Finlay, 1926)	golden volute	Volutidae			No change
<i>Roseaplagis caelatus</i> (Hutton, 1884)	top shell	Trochidae			New listing
<i>Roseaplagis mortenseni</i> (Odhner, 1924)	top shell	Trochidae			New listing
<i>Sagenotriton ajax</i> B.A. Marshall & Walton, 2018	Ajax triton	Buccinidae		Sp	New listing
<i>Sinepecten segonzaci</i> Schein, 2006	scallop	Pectinidae		SO	No change
<i>Solemya marshalli</i> Walton, 2015	awning clam	Solemyidae			New listing
<i>Solemya puata</i> Walton, 2015	awning clam	Solemyidae			New listing
<i>Taonius tanuki</i> Evans, 2018	cranchiid squid	Cranchiidae			New listing
Nematoda (12)					
<i>Aponema subtilis</i> Leduc & Wharton, 2008	marine nematode	Microalaimidae		DPS, DPT	No change
<i>Deontostoma tridentum</i> Leduc 2013	marine nematode	Leptosomatidae		DPS, DPT	New listing
<i>Gammanema agglutinans</i> Leduc, 2013	marine nematode	Selachinematidae		DPS, DPT	New listing
<i>Neodiplopetula barentsi</i> (Steiner, 1916) Hollovachov & Boström, 2018	marine nematode	Diplopetidae			New listing
<i>Paramicroalaimus honorucola</i> Verdon & Leduc, 2018	marine nematode	Paramicroalaimidae			New listing
<i>Paramphimonhystrella barbula</i> Leduc, 2014	marine nematode	Xyalidae			New listing
<i>Paramphimonhystrella glossalga</i> Leduc, 2014	marine nematode	Xyalidae		DPS, DPT	New listing
<i>Sabatieria articulata</i> Fu & Leduc, 2019	marine nematode	Comesomatidae		DPS, DPT	New listing
<i>Sabatieria balbutiens</i> Leduc, 2013	marine nematode	Comesomatidae		DPS, DPT	New listing

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Table 6 continued

ASSESSMENT NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS	STATUS CHANGE
<i>Sabatieria bathycopia</i> Leduc, 2013	marine nematode	Comesomatidae		DPS, DPT	New listing
<i>Sabatieria bubulba</i> Leduc, 2013	marine nematode	Comesomatidae		DPS, DPT	New listing
<i>Stygodesmodora confusa</i> Leduc & Verschelde, 2015	marine nematode	Desmodoridae		DPS, DPT	New listing
Porifera (3)					
<i>Antarctotetilla leptoderma</i> (Sollas, 1886)		Tetillidae		SO	New listing
<i>Penares aureus</i> Sim-Smith & Kelly, 2019	sponge	Geodiidae		Sp. DPS, DPT	New listing
<i>Penares turmericolor</i> Sim-Smith & Kelly, 2019	turneric-coloured sponge	Geodiidae		DPS, DPT	New listing
Taxonomically unresolved (1)					
Mollusca (1)					
<i>Leachia</i> sp. 1 (NIMNZ M.067263)	cranchiid squid	Cranchiidae			New listing

3.2 NZTCS categories, criteria and qualifiers

Full details of the criteria and qualifiers included in Table 5 can be found in Rolfe et al. (2021). Summary definitions for the categories are presented below.

Data Deficient

Taxa that cannot be assessed due to a lack of current information about their distribution and abundance. It is hoped that listing such taxa will stimulate research to find out the true category (for a fuller definition, see Townsend et al. (2008)).

Threatened

NATIONALLY CRITICAL

A – very small population (natural or unnatural)

- A(1) < 250 mature individuals
- A(2) ≤ 2 sub-populations, ≤ 200 mature individuals in the larger sub-population
- A(3) Total area of occupancy ≤ 1 ha (0.01 km²)

B – small population with a high ongoing or forecast decline of 50–70%

- B(1) 250–1000 mature individuals
- B(2) ≤ 5 sub-populations, ≤ 300 mature individuals in the largest sub-population
- B(3) Total area of occupancy ≤ 10 ha (0.1 km²)

C – population (irrespective of size or number of sub-populations) with a very high ongoing or forecast decline of > 70%

- C Predicted decline > 70%

NATIONALLY ENDANGERED

A – small population that has a low to high ongoing or forecast decline of 10–50%

- A(1) 250–1000 mature individuals
- A(2) ≤ 5 sub-populations, ≤ 300 mature individuals in the largest sub-population
- A(3) Total area of occupancy ≤ 10 ha (0.1 km²)

B – small, stable population (unnatural)

- B(1) 250–1000 mature individuals
- B(2) ≤ 5 sub-populations, ≤ 300 mature individuals in the largest sub-population
- B(3) Total area of occupancy ≤ 10 ha (0.1 km²)

C – moderate population and high ongoing or forecast decline of 50–70%

- C(1) 1000–5000 mature individuals
- C(2) ≤ 15 sub-populations, ≤ 500 mature individuals in the largest sub-population
- C(3) Total area of occupancy ≤ 100 ha (1 km²)

NATIONALLY VULNERABLE

A – small population (unnatural), increasing > 10%

- A(1) 250–1000 mature individuals
- A(2) ≤ 5 sub-populations, ≤ 300 mature individuals in the largest sub-population
- A(3) Total area of occupancy ≤ 10 ha (0.1 km²)

B – moderate population (unnatural), stable ± 10%

- B(1) 1000–5000 mature individuals
- B(2) ≤ 15 sub-populations, ≤ 500 mature individuals in the largest sub-population
- B(3) Total area of occupancy ≤ 100 ha (1 km²)

C – moderate population and population trend that has a low to high ongoing or forecast decline of 10–50%

C(1) 1000–5000 mature individuals

C(2) ≤ 15 sub-populations, ≤ 500 mature individuals in the largest sub-population

C(3) Total area of occupancy ≤ 100 ha (1 km²)

D – moderate to large population and moderate to high ongoing or forecast decline of 30–70%

D(1) 5000–20 000 mature individuals

D(2) ≤ 15 sub-populations, ≤ 1000 mature individuals in the largest sub-population

D(3) Total area of occupancy ≤ 1000 ha (10 km²)

E – large population and high ongoing or forecast decline of 50–70%

E(1) 20 000–100 000 mature individuals

E(2) Total area of occupancy ≤ 10 000 ha (100 km²)

At Risk

DECLINING

A – moderate to large population and low ongoing or forecast decline of 10–30%

A(1) 5000–20 000 mature individuals

A(2) Total area of occupancy ≤ 1000 ha (10 km²)

B – large population and low to moderate ongoing or forecast decline of 10–50%

B(1) 20 000–100 000 mature individuals

B(2) Total area of occupancy ≤ 10 000 ha (100 km²)

C – very large population and low to high ongoing or forecast decline of 10–70%

C(1) > 100 000 mature individuals

C(2) Total area of occupancy > 10 000 ha (100 km²)

NATURALLY UNCOMMON

Taxa whose distributions are confined to a specific geographical area or which occur within naturally small and widely scattered populations, where these distributions are not the result of human disturbance.

Not Threatened

Resident native taxa that have large, stable populations.

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5. References

- Freeman, D.; Schnabel, K.; Marshall, B.A.; Gordon, D.; Wing, S.; Tracey, D.; Hitchmough, R. 2014: Conservation status of New Zealand marine invertebrates, 2013. *New Zealand Threat Classification Series 9*. Department of Conservation, Wellington. 20 p. www.doc.govt.nz/globalassets/documents/science-and-technical/nztcs9entire.pdf
- Freeman, D.J.; Marshall, B.A.; Ahyong, S.T.; Wing, S.R.; Hitchmough, R.A. 2010: The conservation status of New Zealand marine invertebrates, 2009. *New Zealand Journal of Marine and Freshwater Research* 44: 129–148. <https://doi.org/10.1080/00288330.2010.495373>
- Gordon, D.P. (Ed.) 2009: New Zealand Inventory of Biodiversity. Volume one. Kingdom Animalia: Radiata, Lophotrochozoa, Deuterostomia. Canterbury University Press, Christchurch. 566 p.
- Gordon, D.P. (Ed.) 2010: New Zealand Inventory of Biodiversity. Volume two. Kingdom Animalia: Chaetognatha, Ecdysozoa, Ichnofossils. Canterbury University Press, Christchurch. 544 p.
- Gordon, D.P. (Ed.) 2012: New Zealand Inventory of Biodiversity. Volume three. Kingdoms Bacteria, Protozoa, Chromista, Plantae, Fungi. Canterbury University Press, Christchurch. 616 p.
- Grainger, N.; Harding, J.; Drinan, T.; Collier, K.; Smith, B.; Death, R.; Makan, T.; Rolfe, J. 2018: Conservation status of New Zealand freshwater invertebrates, 2018. *New Zealand Threat Classification Series 28*. Department of Conservation, Wellington. 25 p. www.doc.govt.nz/globalassets/documents/science-and-technical/nztcs28entire.pdf
- Hitchmough, R. (comp.) 2002: New Zealand Threat Classification System lists—2002. *Threatened Species Occasional Publication 23*. Department of Conservation, Wellington. 210 p. www.doc.govt.nz/globalassets/documents/science-and-technical/tsop23pre.pdf
- Hitchmough, R.; Bull, L.; Cromarty, P. 2007: New Zealand Threat Classification System lists—2005. Department of Conservation, Wellington. 194 p. www.doc.govt.nz/globalassets/documents/science-and-technical/sap236.pdf
- IUCN Standards and Petitions Committee 2019: Guidelines for using the IUCN Red List categories and criteria. Version 14. Prepared by the Standards and Petitions Committee. Downloadable from www.iucnredlist.org/documents/RedListGuidelines.pdf
- Molloy, J.; Bell, B.; Clout, M.; de Lange, P.; Gibbs, G.; Given, D.; Norton, D.; Smith, N.; Stephens, T. 2002: Classifying species according to threat of extinction. A system for New Zealand. *Threatened Species Occasional Publication 22*. Department of Conservation, Wellington. 26 p. www.doc.govt.nz/globalassets/documents/science-and-technical/tsop22.pdf
- Rolfe, J.; Makan, T.; Tait, A. 2021: Supplement to the New Zealand Threat Classification System 2008: new qualifiers and amendments to qualifier definitions, 2021. Department of Conservation, Wellington. 9 p. www.doc.govt.nz/globalassets/documents/science-and-technical/nztcs-supplement-2021.pdf
- Rowden, A. 2008: Voyage Report – MacRidge 2 – TANo803. National Institute of Water and Atmospheric Research, Wellington. 59 p.
- Townsend, A.J.; de Lange, P.J.; Duffy, C.A.J.; Miskelly, C.M.; Molloy, J.; Norton, D.A. 2008: New Zealand Threat Classification System manual. Department of Conservation, Wellington. 35 p. www.doc.govt.nz/globalassets/documents/science-and-technical/sap244.pdf
- Yeates, G.W.; Zhao, Z.Q.; Hitchmough, R.A.; Stringer, I.A.N. 2012: The conservation status of New Zealand Nematoda. *New Zealand Entomologist* 35(2): 128–130. DOI: 10.1080/00779962.2012.686317