



NEW ZEALAND THREAT CLASSIFICATION SERIES 9

Conservation status of New Zealand marine invertebrates, 2013

Debbie Freeman, Kareen Schnabel, Bruce Marshall, Dennis Gordon, Stephen Wing, Di Tracey and Rod Hitchmough

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Department of
Conservation
Te Papa Atawhai



Cover: Black coral with snake stars, Fiordland, New Zealand. Photo: Stephen Wing.

New Zealand Threat Classification Series is a scientific monograph series presenting publications related to the New Zealand Threat Classification System (NZTCS). Most will be lists providing NZTCS status of members of a plant or animal group (e.g. algae, birds, spiders). There are currently 23 groups, each assessed once every 3 years. After each three-year cycle there will be a report analysing and summarising trends across all groups for that listing cycle. From time to time the manual that defines the categories, criteria and process for the NZTCS will be reviewed. Publications in this series are considered part of the formal international scientific literature.

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Conservation status of New Zealand marine invertebrates, 2013

Debbie Freeman¹, Kareen Schnabel², Bruce Marshall³, Dennis Gordon², Stephen Wing⁴, Di Tracey² and Rod Hitchmough¹

¹ Science and Capability Group, Department of Conservation, PO Box 10420, Wellington 6143, New Zealand. dfreeman@doc.govt.nz

² National Institute of Water and Atmospheric Research (NIWA), PO Box 14901, Kilbirnie, Wellington, New Zealand.

³ Museum of New Zealand Te Papa Tongarewa, PO Box 467, Wellington 6140, New Zealand.

⁴ Otago University, PO Box 56, Dunedin 9054, New Zealand.

Abstract

The conservation status of a proportion of all known New Zealand marine invertebrate taxa was reassessed in June 2013 using the New Zealand Threat Classification System (NZTCS) criteria. A full list is presented, along with a statistical summary and brief notes on the most important changes. This list replaces all previous NZTCS lists for marine invertebrates.

Keywords: New Zealand Threat Classification System, NZTCS, conservation status, marine invertebrates

1. Summary

In June 2013, the Department of Conservation held an expert workshop to assess New Zealand's marine invertebrates using the New Zealand Threat Classification System (NZTCS) criteria (Townsend et al. 2008), updating a previous listing process from 2009 (Freeman et al. 2009). A number of changes were made to the list, including those resulting from taxonomic name changes (Table 1). A total of 415 taxa was assessed (Table 2), with a number of changes made to threat categories to reflect changes in certainty or knowledge around the distribution, abundance and population trends of some taxa, or to reflect a reinterpretation of the available data (Table 3). All marine invertebrates assessed in 2009 were reassessed and an additional 108 taxa were also assessed (Table 4). Most of the latter were assessed as either data deficient, or naturally uncommon. One taxon that was included in the list produced in 2009 was excluded from the current listing—*Cellana strigilis bollonsi* Powell, 1955, which is now considered to be a synonym of *C. oliveri*.

While a number of changes were made to the threat categories assigned to the marine invertebrates we assessed, just one change was the result of an actual decline in abundance. The brachiopod *Pumilus antiquatus* (a monotypic, endemic genus) was listed as Nationally Endangered in 2009, but listed as Nationally Critical in 2013, to reflect an apparent decline in abundance at the sites it has previously been recorded from (Otago Harbour and Lyttleton). No taxa improved in status between 2009 and 2013 as a result of an actual change in distribution or abundance.

Six taxa were listed as Nationally Critical: the polychaete *Boccardiella magniovata*, the barnacle *Idioibla idiotica*, the gravel maggots *Smeagol climoi* and *Smeagol manningi*, brachiopod *Pumilus antiquatus* and the giant seep mussel *Bathymodiolus tangaroa*. An additional five taxa were also included in the Threatened category. The majority of taxa we assessed were classified as At Risk, with most of these being taxa that are naturally uncommon, such as island endemics.

A large number of marine invertebrates were assessed as Data Deficient. However, the majority of the New Zealand marine invertebrate fauna (over 95%) remains unassessed in the New Zealand Threat Classification System. While representatives of phyla not assessed in 2009 were included in the current assessment (e.g. sponges, phylum porifera), the full range of marine invertebrate phyla are not yet represented in the list.

Table 1. Name changes affecting New Zealand marine invertebrate species between the publication of Freeman et al. (2009) and this document.

NAME AND AUTHORITY IN FREEMAN ET AL. (2009)	NAME IN THIS DOCUMENT	COMMON NAME
Phylum Arthropoda		
<i>Ibla idiotica</i> Batham, 1945	<i>Idioibla idiotica</i> (Batham, 1945)	Stalked barnacle
<i>Volcanolepas osheai</i> (Buckeridge, 2000)	<i>Vulcanolepas osheai</i> (Buckeridge, 2000)	O'Shea's vent barnacle
Phylum Cnidaria		
<i>Metallogorgia</i> cf. <i>melanotrichos</i>	<i>Metallogorgia</i> spp.	Golden coral
<i>Mopsea elongata</i> Roule, 1908	<i>Mopsea</i> sp.	Bamboo coral
<i>Peltastisis</i>	<i>Peltastisis</i> sp.	Bamboo coral
Phylum Mollusca		
<i>Cellana strigilis flemingi</i> Powell, 1955	<i>Cellana strigilis</i> (Hombron & Jacquinot, 1841)	Limpet
<i>Cellana strigilis oliveri</i> Powell, 1955	<i>Cellana oliveri</i> Powell, 1955	Limpet
<i>Margarella antipoda hinemoa</i> Powell, 1956	<i>Cantharidus antipoda hinemoa</i> (Powell, 1956)	Snail
<i>Margarella</i> sp. A (NMNZ M.59506)	<i>Cantharidus</i> sp. A (NMNZ M.59506)	Snail
<i>Margarella</i> sp. B (NMNZ M.131607)	<i>Cantharidus</i> sp. B (NMNZ M.131607)	Snail

Continued on next page

Table 1 continued

NAME AND AUTHORITY IN FREEMAN ET AL. (2009)	NAME IN THIS DOCUMENT	COMMON NAME
<i>Micrelenchus festivus</i> B.A. Marshall, 1999	<i>Cantharidus festivus</i> (B.A. Marshall, 1999)	Snail
<i>Patella kermadecensis</i> (Pilsbry, 1894)	<i>Scutellastra kermadecensis</i> (Pilsbry, 1894)	Limpet
<i>Patinigera terroris</i> (Filhol, 1880)	<i>Nacella terroris</i> (Filhol, 1880)	Limpet
<i>Thoristella polychroma</i> B.A. Marshall, 1999	<i>Coelotrochus polychroma</i> (B.A. Marshall, 1999)	Snail

Table 2. Comparison of the status of New Zealand marine invertebrate species assessed in 2009 (Freeman et al. 2009) and 2013 (this document).

CATEGORY	TOTAL 2009	TOTAL 2013
Extinct	0	0
Data Deficient	12	61
Threatened—Nationally Critical	10	6
Threatened—Nationally Endangered	2	1
Threatened—Nationally Vulnerable	21	4
At Risk—Declining	8	21
At Risk—Recovering	0	0
At Risk—Relict	0	0
At Risk—Naturally Uncommon	243	303
Non-resident Native—Migrant	0	0
Non-resident Native—Vagrant	0	0
Non-resident Native—Coloniser	0	0
Not Threatened	11	19
Introduced and Naturalised	0	0
Total	307	415

Table 3. Statistical summary of status changes of marine invertebrates between 2009 (Freeman et al. 2009) and 2013 (this document).

CONSERVATION STATUS 2013	CONSERVATION STATUS 2009	DETERMINATE	INDETERMINATE	TOTAL
DATA DEFICIENT		55	6	61
	Data Deficient	11	0	11
	Nationally Critical	1	1	2
	Nationally Vulnerable	6	2	8
	Naturally Uncommon	7	1	8
	Not in previous list	30	2	31
THREATENED		11	0	11
Nationally Critical		6	0	6
	Nationally Critical	4	0	4
	Nationally endangered	1	0	1
	Declining	1	0	1
Nationally Endangered		1	0	1
	Nationally Endangered	1	0	1
Nationally Vulnerable		4	0	4
	Nationally Vulnerable	4	0	4
AT RISK		222	102	324
Declining		13	8	21
	Declining	3	0	3
	Data deficient	0	1	1
	Nationally Vulnerable	4	3	7
	Naturally uncommon	1	4	5
	Not in previous list	5	0	5
Naturally Uncommon		209	94	303
	Naturally Uncommon	138	89	227
	Nationally Critical	3	1	4
	Nationally Vulnerable	1	1	2
	Not in previous list	67	3	70
NOT THREATENED		19	0	19
	Declining	4	0	4
	Naturally Uncommon	2	0	2
	Not in previous list	2	0	2
	Not Threatened	11	0	11
TOTAL		307	108	415

Table 4. Taxa included in this document that were not listed in Freeman et al. (2009).

NAME AND AUTHORITY	COMMON NAME	FAMILY
Phylum Arthropoda		
<i>Gonodactylus osheai</i> Ahyong, 2012	Mantis shrimp	Gonodactylidae
<i>Lithodes aotearoa</i> Ahyong, 2010	King crab	Lithodidae
<i>Lithodes jessica</i> Ahyong, 2010	King crab	Lithodidae
<i>Lithodes macquariae</i> Ahyong, 2010	King crab	Lithodidae
<i>Lithodes robertsoni</i> Ahyong, 2010	King crab	Lithodidae
<i>Neolithodes brodiei</i> Dawson & Yaldwyn, 1970	King crab	Lithodidae
<i>Neolithodes bronwynae</i> Ahyong, 2010	King crab	Lithodidae
<i>Paralomis dawsoni</i> Macpherson, 2001	King crab	Lithodidae
<i>Paralomis poorei</i> Ahyong, 2010	King crab	Lithodidae
<i>Paralomis staplesi</i> Ahyong, 2010	King crab	Lithodidae
<i>Paralomis webberi</i> Ahyong, 2010	King crab	Lithodidae

Continued on next page

Table 4 continued

NAME AND AUTHORITY	COMMON NAME	FAMILY
<i>Paralomis zealandica</i> Dawson & Yaldwyn, 1971	King crab	Lithiidae
<i>Colubrisquilla dempsey</i> Ah Yong, 2012	Mantis shrimp	Tetrasquillidae
<i>Heterosquilla koning</i> Ah Yong, 2012	Mantis shrimp	Tetrasquillidae
<i>Heterosquilla laevis</i> (Hutton, 1879)	Mantis shrimp	Tetrasquillidae
<i>Heterosquilla tricarinata</i> (Claus, 1871)	Mantis shrimp	Tetrasquillidae
<i>Heterosquilla tridentata</i> (Thomson, 1882)	Mantis shrimp	Tetrasquillidae
<i>Heterosquilla trifida</i> Ah Yong, 2012	Mantis shrimp	Tetrasquillidae
<i>Parillacantha georgeorum</i> Ah Yong, 2012	Mantis shrimp	Tetrasquillidae
Phylum Cnidaria		
<i>Goniocorella dumosa</i> (Alcock, 1902)	Stony coral	Caryophylliidae
<i>Solenosmilia variabilis</i> Duncan 1873	Stony coral	Caryophylliidae
<i>Enallopsammia rostrata</i> (Pourtalès, 1878)	Stony coral	Dendrophylliidae
<i>Chathamisis</i> spp. Kermadec Ridge	Bamboo coral	Isidiidae
<i>Echinisis spicata</i> (Hickson, 1907)	Bamboo coral	Isidiidae
<i>Keratoisis glaesa</i> Grant, 1976	Bamboo coral	Isidiidae
<i>Keratoisis hikurangiensis</i> Grant, 1976	Bamboo coral	Isidiidae
<i>Keratoisis</i> n. sp.	Bamboo coral	Isidiidae
<i>Keratoisis projecta</i> Grant, 1976	Bamboo coral	Isidiidae
<i>Keratoisis tangensis</i> Grant, 1976	Bamboo coral	Isidiidae
<i>Keratoisis zelanica</i> Grant, 1976	Bamboo coral	Isidiidae
<i>Primnoisis ambigua</i> Wright & Studer, 1889	Bamboo coral	Isidiidae
<i>Primnoisis antarctica</i> (Studer, 1878)	Bamboo coral	Isidiidae
<i>Primnoisis</i> sp. C	Bamboo coral	Isidiidae
<i>Calyptrophora cristata</i> Cairns, 2012	Sea fan	Primnoidae
<i>Calyptrophora cucullata</i> Cairns, 2012	Sea fan	Primnoidae
<i>Calyptrophora diaphana</i> Cairns, 2012	Sea fan	Primnoidae
<i>Calyptrophora inornata</i> Cairns, 2012	Sea fan	Primnoidae
<i>Calyptrophora niwa</i> Cairns, 2012	Sea fan	Primnoidae
<i>Helicoprinoia fasciola</i> Cairns, 2012	Sea fan	Primnoidae
<i>Metanarella nannolepis</i> Cairns, 2012	Sea fan	Primnoidae
<i>Narella hypsocalyx</i> Cairns, 2012	Sea fan	Primnoidae
<i>Narella mesolepis</i> Cairns, 2012	Sea fan	Primnoidae
<i>Narella mosaica</i> Cairns, 2012	Sea fan	Primnoidae
<i>Narella vulgaris</i> Cairns, 2012	Sea fan	Primnoidae
<i>Narelloides crinitus</i> Cairns, 2012	Sea fan	Primnoidae
<i>Errina bicolor</i> Cairns, 1991	Red coral	Stylasteridae
<i>Errina chathamensis</i> Cairns, 1991	Red coral	Stylasteridae
<i>Errina cheilopora</i> Cairns, 1983	Red coral	Stylasteridae
<i>Errina cooki</i> Hickson, 1912	Red coral	Stylasteridae
<i>Errina dendyi</i> Hickson, 1912	Red coral	Stylasteridae
<i>Errina hicksoni</i> Cairns, 1991	Red coral	Stylasteridae
<i>Errina laevigata</i> Cairns, 1991	Red coral	Stylasteridae
<i>Errina novaezealandiae</i> Hickson, 1912	Red coral	Stylasteridae
<i>Errina reticulata</i> Cairns, 1991	Red coral	Stylasteridae
<i>Errina sinuosa</i> Cairns, 1991	Red coral	Stylasteridae
<i>Protulophila</i> sp.	Hydroid	
Phylum Echinodermata		
<i>Gorgonocephalus chilensis</i> (Philippi, 1858)	Basket star	Gorgonocephalidae
<i>Gorgonocephalus pustulatum</i> (H. L. Clark, 1916)	Basket star	Gorgonocephalidae
<i>Gorgonocephalus sundanus</i> Döderlein, 1927	Basket star	Gorgonocephalidae
Phylum Mollusca		
<i>Acrosterigma sorenseni</i> (Powell, 1967)	Bivalve	Cardiidae
<i>Vexillum iredalei</i> (Powell, 1958)	Snail	Costellariidae
<i>Crassatina iredalei</i> (Powell, 1958)	Bivalve	Crassatellidae

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Table 4 continued

NAME AND AUTHORITY	COMMON NAME	FAMILY
<i>Epigrus gracilis</i> Oliver, 1915	Snail	Epigridae
<i>Epigrus insularis</i> Oliver, 1915	Snail	Epigridae
<i>Emarginula connectens</i> Thiele, 1915	Snail	Fissurellidae
<i>Larochaea spirata</i> Geiger & B.A. Marshall, 2012	Snail	Larochaeidae
<i>Larochaeopsis amplexa</i> B.A. Marshall, 1993	Snail	Larochaeidae
<i>Bathyaustriella thionipta</i> Glover, Taylor & Rowden, 2004	Bivalve	Lucinidae
<i>Cancilla kermadecensis</i> (Cernohorsky, 1978)	Snail	Mitridae
<i>Hirtomurex taranui</i> B.A. Marshall & Oliverio, 2009	Snail	Muricidae
<i>Cyclopecten kermadecensis</i> (E.A. Smith, 1885)	Scallop	Propeamussiidae
<i>Besla insularis</i> (Oliver, 1915)	Snail	Pyramidellidae
<i>Eulimella inexpectata</i> (Oliver, 1915)	Snail	Pyramidellidae
<i>Hinemoa punicea</i> Oliver, 1915	Snail	Pyramidellidae
<i>Striatestea poutama</i> Ponder, 1967	Snail	Rissoidae
<i>Striatestea bountyensis</i> Powell, 1927	Snail	Rissoidae
<i>Striatestea eulima</i> Powell, 1940	Snail	Rissoidae
<i>Satondella bicristata</i> Geiger & B.A. Marshall, 2012	Slit shell	Scissurellidae
<i>Scissurella bountyensis</i> Powell, 1933	Slit shell	Scissurellidae
<i>Sinezona brucei</i> Geiger, 2012	Slit shell	Scissurellidae
<i>Sinezona enigmatica</i> Geiger & B.A. Marshall, 2012	Slit shell	Scissurellidae
<i>Sinezona platyspira</i> Geiger & B.A. Marshall, 2012	Slit shell	Scissurellidae
<i>Grippina globosa</i> B.A. Marshall, 2002	Bivalve	Spheniopsidae
<i>Grippina pumila</i> B. Marshall, 2002	Bivalve	Spheniopsidae
<i>Grippina spirata</i> B. Marshall, 2002	Bivalve	Spheniopsidae
<i>Tornus aupouria</i> (Powell, 1937)	Snail	Tornidae
<i>Tornus maoria</i> (Powell, 1937)	Snail	Tornidae
<i>Coelotrochus carinatus</i> (B.A. Marshall, 1998)	Snail	Trochidae
<i>Coelotrochus rex</i> (B.A. Marshall, 1998)	Snail	Trochidae
<i>Bolma kermadecensis</i> Beu & Ponder, 1979	Snail	Turbinidae
<i>Vanikoro wallacei</i> Iredale, 1912	Snail	Vanikoridae
Phylum Porifera		
<i>Aulocalyx australis</i> Reiswig & Kelly, 2011	Glass sponge	Aulocalycidae
<i>Auloplax breviscopulata</i> Reiswig & Kelly, 2011	Glass sponge	Aulocalycidae
<i>Auloplax sonnae</i> Reiswig & Kelly, 2011	Glass sponge	Auloplacidae
<i>Chonelasma australe</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae
<i>Chonelasma biscopulatum</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae
<i>Chonelasma chathamense</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae
<i>Chonelasma glaciale</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae
<i>Chonelasma lamella</i> Schulze, 1888	Glass sponge	Euretidae
<i>Conorete gordonii</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae
<i>Gymnorete pacificum</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae
<i>Gymnorete stabulatum</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae
<i>Farrea ananchorata</i> Reiswig & Kelly, 2011	Glass sponge	Farreidae
<i>Farrea anoxyhexastera</i> Reiswig & Kelly, 2011	Glass sponge	Farreidae
<i>Farrea medusiforma</i> Reiswig & Kelly, 2011	Glass sponge	Farreidae
<i>Farrea onychohexastera</i> Reiswig & Kelly, 2011	Glass sponge	Farreidae
<i>Farrea raoulensis</i> Reiswig & Kelly, 2011	Glass sponge	Farreidae
<i>Farrea similis</i> Reiswig & Kelly, 2011	Glass sponge	Farreidae
<i>Hexactinella acanthacea</i> Reiswig & Kelly, 2011	Glass sponge	Tretodictyidae
<i>Hexactinella aurea</i> Reiswig & Kelly, 2011	Glass sponge	Tretodictyidae
<i>Hexactinella simplex</i> Reiswig & Kelly, 2011	Glass sponge	Tretodictyidae

Table 5. Names included in Freeman et al. (2009) that have been rejected from this document.

NAME IN FREEMAN ET AL. (2009)	REASON FOR REJECTION
<i>Cellana strigilis bollonsi</i> Powell, 1955	Now synonym of <i>C. oliveri</i>

2. Conservation status of New Zealand marine invertebrates

The revised threat ranking for marine invertebrates is provided in this section and replaces all previous NZTCS lists for marine invertebrates.

Taxa were assessed according to the criteria of Townsend et al. (2008), grouped by conservation status, then alphabetically by scientific name. Categories are ordered by degree of loss, with Extinct at the top of the list and Not Threatened at the bottom, above Introduced and Naturalised. The Data Deficient list is inserted between Extinct and Threatened. Although the true status of Data Deficient taxa will span the entire range of available categories, taxa are in that list mainly because they are very seldom seen, so most are likely to end up being considered threatened and some may already be extinct. The Data Deficient list is likely to include many of the most threatened species in New Zealand.

See Townsend et al. (2008) for details of criteria and qualifiers, which are abbreviated as follows:

CD	Conservation Dependent
De	Designated
DP	Data Poor
EF	Extreme Fluctuations
EW	Extinct in the Wild
IE	Island Endemic
Inc	Increasing
OL	One Location
PD	Partial Decline
RF	Recruitment Failure
RR	Range Restricted
SO	Secure Overseas
Sp	Sparse
St	Stable
TO	Threatened Overseas

2.1 Taxonomically determinate

Extinct (0)

Taxa for which there is no reasonable doubt—following repeated surveys in known or expected habitats at appropriate times (diurnal, seasonal and annual) and throughout the taxon’s historic range—that the last individual has died.

No taxonomically determinate marine invertebrate taxa are listed in this category.

Data Deficient (55)

Taxa that are suspected but not definitely known to belong to any particular category 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 or threat. (For a fuller definition see Townsend et al. 2008.)

NAME AND AUTHORITY	COMMON NAME	FAMILY	QUALIFIERS
Phylum Annelida			
<i>Scoletoma lynnei</i> (Knox, 1951)	Polychaete	Lumbrineridae	
<i>Hartmanonuphis pectinata</i> (Knox & Hicks, 1973)	Polychaete	Onuphidae	
Phylum Arthropoda			
<i>Nautilocaris saintlaurentae</i> Komai & Segonzac, 2006	Shrimp	Alvinocarididae	SO
<i>Bathysquilla microps</i> (Manning, 1961)	Mantis shrimp	Bathysquillidae	SO
<i>Chionelasmus crosnieri</i> (Buckeridge 1998)	Primitive acorn barnacle	Chionelasmataidae	
<i>Cancellus laticoxa</i> Forest & McLaughlan, 2000	Crab	Diogenidae	OL
<i>Gonodactylus osheai</i> Ah Yong, 2012	Mantis shrimp	Gonodactylidae	DP, Sp
<i>Lithodes jessica</i> Ah Yong, 2010	King crab	Lithodidae	DP, RR, Sp
<i>Paralomis staplesi</i> Ah Yong, 2010	King crab	Lithodidae	DP, Sp
<i>Paralomis webberi</i> Ah Yong, 2010	King crab	Lithodidae	DP, OL, RR, Sp
<i>Notopoides latus</i> Henderson, 1888	Crab	Raninidae	OL
<i>Heterosquilla trifida</i> Ah Yong, 2012	Mantis shrimp	Tetrasquillidae	DP, RR, Sp
Phylum Cnidaria			
<i>Antipathes fruticosa</i> Gray, 1857	Black coral	Antipathidae	
<i>Coenocyathus brooki</i> Cairns, 1995	Stony coral	Caryophylliidae	RR
<i>Circinisis circinata</i> Grant, 1976	Bamboo coral	Isididae	OL
<i>Primnoisis ambigua</i> Wright & Studer, 1889	Bamboo coral	Isididae	RR, SO
<i>Primnoisis antarctica</i> (Studer, 1878)	Bamboo coral	Isididae	
<i>Calyptrophora cristata</i> Cairns, 2012	Sea fan	Primnoidae	DP, OL, RR, Sp
<i>Calyptrophora diaphana</i> Cairns, 2012	Sea fan	Primnoidae	DP, RR, Sp
<i>Calyptrophora niwa</i> Cairns, 2012	Sea fan	Primnoidae	DP, RR, Sp
<i>Helicoprinoia fasciola</i> Cairns, 2012	Sea fan	Primnoidae	DP, OL, RR, Sp
<i>Metanarella nannolepis</i> Cairns, 2012	Sea fan	Primnoidae	DP, RR, Sp
<i>Narella mosaica</i> Cairns, 2012	Sea fan	Primnoidae	DP, OL, RR, Sp
<i>Narelloides crinitus</i> Cairns, 2012	Sea fan	Primnoidae	DP, RR, Sp
<i>Paragorgia aotearoa</i> Sanchez, 2005	Bubblegum coral	Paragorgiidae	Sp
<i>Paragorgia kaupeka</i> Sanchez, 2005	Bubblegum coral	Paragorgiidae	DP, RR
<i>Paragorgia maunga</i> Sanchez, 2005	Bubblegum coral	Paragorgiidae	DP, RR
<i>Paragorgia wahine</i> Sanchez, 2005	Bubblegum coral	Paragorgiidae	OL
<i>Paragorgia whero</i> Sanchez, 2005	Bubblegum coral	Paragorgiidae	DP, Sp
<i>Sibogorgia dennisgordoni</i> Sanchez, 2005	Bubblegum coral	Paragorgiidae	OL
<i>Sibogorgia tautahi</i> Sanchez, 2005	Bubblegum coral	Paragorgiidae	DP, OL
<i>Errina cooki</i> Hickson, 1912	Red coral	Stylasteridae	DP, RR, Sp
<i>Errina dendyi</i> Hickson, 1912	Red coral	Stylasteridae	DP, Sp
<i>Errina hicksoni</i> Cairns, 1991	Red coral	Stylasteridae	DP, RR, Sp
Phylum Echinodermata			
<i>Porterpygus kieri</i> Baker, 1984	Kier's echinoid	Apatopygidae	
<i>Gorgonocephalus sundanus</i> Döderlein, 1927	Basket star	Gorgonocephalidae	Sp
<i>Xyloplax medusiformis</i> Baker, Rowe & Clark, 1987	Sea daisy	Xyloplacidae	
Phylum Mollusca			
<i>Micropilina reinga</i> B.A. Marshall, 2006	Monoplacophoran	Neopilinidae	OL, RR
<i>Micropilina wareni</i> B.A. Marshall, 2006	Monoplacophoran	Neopilinidae	OL, RR
<i>Vema occidua</i> B.A. Marshall, 2006	Monoplacophoran	Neopilinidae	OL

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Data Deficient continued

NAME AND AUTHORITY	COMMON NAME	FAMILY	QUALIFIERS
<i>Cyclopecten kermadecensis</i> (E.A. Smith, 1885)	Scallop	Propeamussiidae	OL
<i>Spondylus ostreoides</i> E.A. Smith, 1886	Scallop	Spondylidae	OL
Phylum Porifera			
<i>Auloplax sonnae</i> Reiswig & Kelly, 2011	Glass sponge	Auloplacidae	DP, OL, RR, Sp
<i>Chonelasma australe</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae	DP, OL, RR, Sp
<i>Chonelasma biscopulatum</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae	DP, OL, RR, Sp
<i>Chonelasma chathamense</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae	DP, OL, RR, Sp
<i>Chonelasma glaciale</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae	DP, OL, RR, Sp
<i>Conorete gordonii</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae	DP, OL, RR, Sp
<i>Farrea medusiforma</i> Reiswig & Kelly, 2011	Glass sponge	Farreidae	DP, Sp
<i>Farrea onychohexastera</i> Reiswig & Kelly, 2011	Glass sponge	Farreidae	DP, Sp
<i>Farrea raoulensis</i> Reiswig & Kelly, 2011	Glass sponge	Farreidae	DP, Sp
<i>Gymnorete pacificum</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae	DP, Sp
<i>Gymnorete stabulatum</i> Reiswig & Kelly, 2011	Glass sponge	Euretidae	DP, OL, RR, Sp
<i>Hexactinella acanthacea</i> Reiswig & Kelly, 2011	Glass sponge	Tretodictyidae	DP, RR, Sp
<i>Hexactinella aurea</i> Reiswig & Kelly, 2011	Glass sponge	Tretodictyidae	DP, OL, RR, Sp

Threatened (11)

Taxa that meet the criteria specified by Townsend et al. (2008) for the categories Nationally Critical, Nationally Endangered and Nationally Vulnerable.

Nationally Critical (6)

Criteria for Nationally Critical:

A—very small population (natural or unnatural)

A(1) <250 mature individuals, regardless of cause

A(2) ≤2 subpopulations, ≤200 mature individuals in the larger subpopulation

A(3) Total area of occupancy ≤1 ha (0.01 km²)

B—small population (natural or unnatural) with a high ongoing or predicted decline

B(1/1) 250–1000 mature individuals, predicted decline 50–70%

B(2/1) ≤5 subpopulations, ≤300 mature individuals in the largest subpopulation, predicted decline 50–70%

B(3/1) Total area of occupancy ≤10 ha (0.1 km²), predicted decline 50–70%

C—population (irrespective of size or number of subpopulations) with a very high ongoing or predicted decline (>70%)

C Predicted decline >70%

NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS
Phylum Annelida				
<i>Boccardiella magniovata</i> (Read, 1975)	Large-egged polychaete	Spionidae	B(2/1)	
Phylum Arthropoda				
<i>Idioibla idiotica</i> (Batham, 1945)	Barnacle	Idioiblididae	C	
Phylum Brachiopoda				
<i>Pumilus antiquatus</i> Atkins, 1958	Dwarf white lamp shell	Kraussinidae	C	PE
Phylum mollusca				
<i>Bathymodiolus tangaroa</i> Cosel & Marshall, 2003	Giant seep mussel	Mytilidae	A(3)	RR
<i>Smeagol climoi</i> Tillier & Ponder, 1993	Gravel maggot	Smeagolidae	A(3)	OL
<i>Smeagol manningi</i> Climo 1981	Gravel maggot	Smeagolidae	A(3)	DP, OL

Nationally Endangered (1)

Criteria for Nationally Endangered:

A—small population (natural or unnatural) that has a low to high ongoing or predicted decline

A(1/1) 250–1000 mature individuals, predicted decline 10–50%

A(2/1) ≤5 subpopulations, ≤300 mature individuals in the largest subpopulation, predicted decline 10–50%

A(3/1) Total area of occupancy ≤10 ha (0.1 km²), predicted decline 10–50%

B—small stable population (unnatural)

B(1/1) 250–1000 mature individuals, stable population

B(2/1) ≤5 subpopulations, ≤300 mature individuals in the largest subpopulation, stable population

B(3/1) Total area of occupancy ≤10 ha (0.1 km²), stable population

C—moderate population and high ongoing or predicted decline

C(1/1) 1000–5000 mature individuals, predicted decline 50–70%

C(2/1) ≤15 subpopulations, ≤500 mature individuals in the largest subpopulation, predicted decline 50–70%

C(3/1) Total area of occupancy ≤100 ha (1 km²), predicted decline 50–70%

NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS
Phylum Annelida				
<i>Spio aequalis</i> Ehlers, 1904	Giant spionid worm	Spionidae	A(1/1)	DP, RR, Sp

Nationally Vulnerable (4)

Criteria for Nationally Vulnerable:

A—small, increasing population (unnatural)

A(1/1) 250–1000 mature individuals, predicted increase >10%

A(2/1) ≤5 subpopulations, ≤300 mature individuals in the largest subpopulation, predicted increase >10%

A(3/1) Total area of occupancy ≤10 ha (0.1 km²), predicted increase >10%

B—moderate, stable population (unnatural)

B(1/1) 1000–5000 mature individuals, stable population

B(2/1) ≤15 subpopulations, ≤500 mature individuals in the largest subpopulation, stable population

B(3/1) Total area of occupancy ≤100 ha (1 km²), stable population

C—moderate population, with population trend that is declining

C(1/1) 1000–5000 mature individuals, predicted decline 10–50%

C(2/1) ≤15 subpopulations, ≤500 mature individuals in the largest subpopulation, predicted decline 10–50%

C(3/1) Total area of occupancy ≤100 ha (1 km²), predicted decline 10–50%

D—moderate to large population, and moderate to high ongoing or predicted decline

D(1/1) 5000–20 000 mature individuals, predicted decline 30–70%

D(2/1) ≤15 subpopulations and ≤1000 mature individuals in the largest subpopulation, predicted decline 30–70%

D(3/1) Total area of occupancy ≤1000 ha (10 km²), predicted decline 30–70%

E—large population, and high ongoing or predicted decline

E(1/1) 20 000–100 000 mature individuals, predicted decline 50–70%

E(2/1) Total area of occupancy ≤10 000 ha (100 km²), predicted decline 50–70%

NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS
Phylum Bryozoa				
<i>Calvetia osheai</i> Taylor & Gordon, 2003	O'Shea's tree bryozoan	Calvetiidae	C(3/1)	CD, PD, RR
<i>Spiritopora perplexa</i> Taylor & Gordon, 2003	Bryozoan	Diaperoeciidae	C(3/1)	CD, OL, PD, RR
Phylum Cnidaria				
<i>Chathamisis bayeri</i> Grant, 1976	Bamboo coral	Isididae	D(3/1)	DP, Sp
<i>Paragorgia alisonae</i> Sanchez, 2005	Bubblegum coral	Paragorgiidae	D(3/1)	DP, Sp

At Risk (222)

Taxa that meet the criteria specified by Townsend et al. (2008) for Declining, Recovering, Relict and Naturally Uncommon.

Declining (13)

Taxa that do not qualify as 'Threatened' because they are buffered by large population size and/or a slower rate of decline than the trigger points.

Criteria for Declining:

A—moderate to large population and low ongoing or predicted decline

A(1/1) 5000–20 000 mature individuals, predicted decline 10–30%

A(2/1) Total area of occupancy ≤1000 ha (10 km²), predicted decline 10–30%

B—large population and low to moderate ongoing or predicted decline

B(1/1) 20 000–100 000 mature individuals, predicted decline 10–50%

B(2/1) Total area of occupancy ≤10 000 ha (100 km²), predicted decline 10–50%

C—very large population and low to high ongoing or predicted decline

C(1/1) >100 000 mature individuals, predicted decline 10–70%

C(2/1) Total area of occupancy >10 000 ha (100 km²), predicted decline 10–70%

NAME AND AUTHORITY	COMMON NAME	FAMILY	CRITERIA	QUALIFIERS
Phylum Bryozoa				
<i>Steginoporella perplexa</i> Livingstone, 1929	Bryozoan	Steginoporellidae	C(2/1)	CD, PD, RR
Phylum Cnidaria				
<i>Goniocorella dumosa</i> (Alcock, 1902)	Stony coral	Caryophylliidae	C(2/1)	CD, SO
<i>Solenosmilia variabilis</i> Duncan 1873	Stony coral	Caryophylliidae	C(2/1)	CD, SO
<i>Enallopsammia rostrata</i> (Pourtalès, 1878)	Stony coral	Dendrophylliidae	C(2/1)	CD, PD, SO
<i>Paragorgia arborea</i> (Linnaeus, 1758)	Bubblegum coral	Paragorgiidae	C(2/1)	SO, Sp
<i>Madrepora oculata</i> Linnaeus, 1758	Stony coral	Oculinidae	C(2/1)	CD, SO
Phylum Echinodermata				
<i>Gorgonocephalus chilensis</i> (Philippi, 1858)	Basket star	Gorgonocephalidae	C(2/1)	SO
<i>Gorgonocephalus dolichodactylus</i> Döderlein, 1911	Basket star	Gorgonocephalidae	C(2/1)	SO
<i>Gorgonocephalus pustulatum</i> (H.L. Clark, 1916)	Basket star	Gorgonocephalidae	C(2/1)	
Phylum Mollusca				
<i>Cellana flava</i> (Hutton, 1873)	Golden limpet	Nacellidae	A(2/1)	RR
<i>Octopus kaharoa</i> O'Shea, 2000	Octopus	Octopodidae	C(2/1)	
<i>Opisthoteuthis mero</i> O'Shea, 2000	Mero's umbrella octopus	Opisthoteuthidae	C(2/1)	DP
<i>Alcithoe davegibbsi</i> Hart, 1999	Volute	Volutidae	C(2/1)	OL

Recovering (o)

Taxa that have undergone a documented decline within the last 1000 years and now have an ongoing or predicted increase of >10% in the total population or area of occupancy, taken over the next 10 years or three generations, whichever is longer. Note that such taxa that are increasing but have a population size of <1000 mature individuals (or total area of occupancy of <10 ha) are listed in one of the Threatened categories, depending on their population size (for more details see Townsend et al. (2008)).

Criteria for Recovering:

- A 1000–5000 mature individuals or total area of occupancy \leq 100 ha (1 km²), and predicted increase >10%
- B 5000–20 000 mature individuals or total area of occupancy \leq 1000 ha (10 km²), and predicted increase >10%

No taxonomically determinate marine invertebrate taxa are listed in this category.

Relict (o)

Taxa that have undergone a documented decline within the last 1000 years, and now occupy <10% of their former range and meet one of the following criteria:

Criteria for Relict:

- A 5000–20 000 mature individuals; population stable (\pm 10%)
- B >20 000 mature individuals; population stable or increasing at >10%. The range of a relictual taxon takes into account the area currently occupied as a ratio of its former extent. Relict can also include taxa that exist as reintroduced and self-sustaining populations within or outside their former known range (for more details see Townsend et al. (2008)).

The range of a relictual taxon takes into account the area currently occupied as a ratio of its former extent. Relict can also include taxa that exist as reintroduced and self-sustaining populations within or outside their former known range (for more details see Townsend et al. (2008)).

No taxonomically determinate marine invertebrate taxa are listed in this category.

Naturally Uncommon (209)

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

NAME AND AUTHORITY	COMMON NAME	FAMILY	QUALIFIERS
Phylum Arthropoda			
<i>Alvinocaris alexander</i> Ah Yong, 2009	Vent shrimp	Alvinocarididae	RR
<i>Alvinocaris longirostris</i> Kikuchi & Ohta, 1995	Vent shrimp	Alvinocarididae	RR
<i>Alvinocaris niwa</i> Webber, 2004	Vent shrimp	Alvinocarididae	RR
<i>Gandalfus puia</i> McLay 2007	Crab	Bythograeidae	RR, Sp
<i>Mursia microspina</i> Davie & Short, 1989	Crab	Calappidae	RR, SO
<i>Philanisus fasciatus</i> Riek, 1976	Caddisfly	Chathamidae	OL
<i>Vulcanolepas osheai</i> (Buckeridge, 2000)	Barnacle	Eolepadidae	OL
<i>Elamena momona</i> Melrose, 1975	Crab	Hymenosomatidae	Sp
<i>Halimena aotearoa</i> Melrose, 1975	Crab	Hymenosomatidae	Sp
<i>Lebbeus wera</i> Ah Yong, 2009	Vent shrimp	Hippolytidae	OL
<i>Chitinolepas spiritsensis</i> Buckeridge & Newman, 2006	Barnacle	Idioiblididae	DP
<i>Lithodes macquariae</i> Ah Yong, 2010	King crab	Lithodidae	DP, RR, Sp

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NAME AND AUTHORITY	COMMON NAME	FAMILY	QUALIFIERS
<i>Lithodes robertsoni</i> Ah Yong, 2010	King crab	Lithodidae	DP, Sp
<i>Neolithodes bronwynae</i> Ah Yong, 2010	King crab	Lithodidae	DP, RR, Sp
<i>Paralomis dawsoni</i> Macpherson, 2001	King crab	Lithodidae	DP, Sp
<i>Paralomis hirtella</i> Macpherson & Saintlaurent, 1998	King crab	Lithodidae	SO
<i>Paralomis poorei</i> Ah Yong, 2010	King crab	Lithodidae	DP, Sp
<i>Paralomis zealandica</i> Dawson & Yaldwyn, 1971	King crab	Lithodidae	Sp
<i>Leptomithrax tuberculatus mortenseni</i> Bennett, 1964	Spider crab	Majidae	RR
<i>Colubrisquilla dempsey</i> Ah Yong, 2012	Mantis shrimp	Tetrasquillidae	DP, Sp
<i>Heterosquilla koning</i> Ah Yong, 2012	Mantis shrimp	Tetrasquillidae	DP, Sp
<i>Heterosquilla laevis</i> (Hutton, 1879)	Mantis shrimp	Tetrasquillidae	Sp
<i>Heterosquilla tricarinata</i> (Claus, 1871)	Mantis shrimp	Tetrasquillidae	Sp
<i>Heterosquilla tridentata</i> (Thomson, 1882)	Mantis shrimp	Tetrasquillidae	DP, RR, Sp
<i>Pariliacantha georgeorum</i> Ah Yong, 2012	Mantis shrimp	Tetrasquillidae	DP, Sp
<i>Xenograpsus ngatama</i> McLay, 2007	Crab	Xenograpsidae	RR, SO
Phylum Cnidaria			
<i>Balanophyllia chnous</i> Squires, 1962	Stony coral	Dendrophylliidae	RR
<i>Crateriteca novaezealandiae</i> (Thompson, 1879)	Stony coral	Dendrophylliidae	RR
<i>Falcatoflabellum raoulensis</i> Cairns, 1995	Stony coral	Flabellidae	RR
<i>Keratoisis glaesa</i> Grant, 1976	Bamboo coral	Isididae	DP, Sp
<i>Keratoisis hikurangiensis</i> Grant, 1976	Bamboo coral	Isididae	Sp
<i>Keratoisis projecta</i> Grant, 1976	Bamboo coral	Isididae	Sp
<i>Keratoisis tangensis</i> Grant, 1976	Bamboo coral	Isididae	OL, RR, Sp
<i>Keratoisis zelanica</i> Grant, 1976	Bamboo coral	Isididae	Sp
<i>Antipathella fiordensis</i> (Grange, 1990)	Black coral	Myriopathidae	RR
<i>Oculina virgosa</i> Squires, 1958	Stony coral	Oculinidae	RR
<i>Nemertesia elongata</i> Totton, 1930	Hydrozoan	Plumulariidae	RR
<i>Calyptrophora cucullata</i> Cairns, 2012	Sea fan	Primnoidae	DP, Sp
<i>Calyptrophora inornata</i> Cairns, 2012	Sea fan	Primnoidae	DP, Sp
<i>Narella hypsocalyx</i> Cairns, 2012	Sea fan	Primnoidae	DP, Sp
<i>Narella mesolepis</i> Cairns, 2012	Sea fan	Primnoidae	DP, RR, Sp
<i>Narella vulgaris</i> Cairns, 2012	Sea fan	Primnoidae	DP, Sp
<i>Errina bicolor</i> Cairns, 1991	Red coral	Stylasteridae	DP, Sp
<i>Errina chathamensis</i> Cairns, 1991	Red coral	Stylasteridae	DP, Sp
<i>Errina cheilopora</i> Cairns, 1983	Red coral	Stylasteridae	DP, Sp
<i>Errina laevigata</i> Cairns, 1991	Red coral	Stylasteridae	DP, Sp
<i>Errina reticulata</i> Cairns, 1991	Red coral	Stylasteridae	DP, Sp
<i>Errina sinuosa</i> Cairns, 1991	Red coral	Stylasteridae	DP, RR, Sp
<i>Lillipathes lillei</i> (Totton, 1923)	Black coral	Schizopathidae	RR, S?O
<i>Sphenotrochus squiresi</i> Cairns, 1995	Stony coral	Turbinoliidae	RR
Phylum Echinodermata			
<i>Eurygonias hyalacanthus</i> Farquhar, 1913	Cushion star	Odontasteridae	RR, Sp
Phylum Mollusca			
<i>Ruapukea carolus</i> Dell, 1953	Snail	Aclididae	DP, RR
<i>Discotectonica acutissima</i> (G.B. Sowerby III, 1914) (NZOI TAN107.122)	Snail	Architectonicidae	DP, RR, SO
<i>Suterilla imperforata</i> Fukuda, Ponder & B.A. Marshall, 2006	Snail	Assimineidae	RR
<i>Fictonoba oliveri</i> (Powell, 1927)	Snail	Barleeiidae	RR
<i>Cominella quoyana griseicalx</i> Willan, 1979	Whelk	Buccinidae	RR
<i>Cominella regalis</i> Willan, 1979	Whelk	Buccinidae	RR
<i>Caecum maori</i> Pizzini & Raines, 2006	Snail	Caecidae	RR
<i>Bathyaufator rapuhia</i> B.A. Marshall, 1996	Snail	Calliostomatidae	RR

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NAME AND AUTHORITY	COMMON NAME	FAMILY	QUALIFIERS
<i>Calliostoma antipodense</i> B.A. Marshall, 1996	Snail	Calliostomatidae	RR
<i>Calliostoma benthicola</i> (Dell, 1950)	Snail	Calliostomatidae	RR
<i>Calliostoma consobrinum</i> (Powell, 1958)	Snail	Calliostomatidae	RR
<i>Calliostoma eminens</i> B.A. Marshall, 1996	Snail	Calliostomatidae	RR
<i>Calliostoma gendalli</i> B.A. Marshall, 1980	Snail	Calliostomatidae	RR
<i>Calliostoma gibbsorum</i> B.A. Marshall, 1996	Snail	Calliostomatidae	RR
<i>Calliostoma jamiesoni</i> B.A. Marshall, 1996	Snail	Calliostomatidae	RR
<i>Calliostoma peregrinum</i> B.A. Marshall, 1996	Snail	Calliostomatidae	RR
<i>Calliostoma xanthos</i> B.A. Marshall, 1996	Snail	Calliostomatidae	SO, Sp
<i>Carinastele coronata</i> B.A. Marshall, 1989	Snail	Calliostomatidae	DP, RR
<i>Carinastele jugosa</i> B.A. Marshall, 1989	Snail	Calliostomatidae	DP, RR
<i>Carinastele kristelleae</i> B.A. Marshall, 1989	Snail	Calliostomatidae	RR
<i>Fautrix candida</i> B.A. Marshall, 1996	Snail	Calliostomatidae	RR
<i>Selastele kopua</i> (B.A. Marshall, 1995)	Snail	Calliostomatidae	RR
<i>Selastele limatulum</i> (B.A. Marshall, 1995)	Snail	Calliostomatidae	RR
<i>Selastele onustum</i> (Odhner, 1924)	Snail	Calliostomatidae	RR
<i>Calliotropis crystallophorus</i> B.A. Marshall, 1980	Snail	Calliotropidae	DP, RR
<i>Acrosterigma sorenseni</i> (Powell, 1967)	Veneroid bivalve	Cardiidae	RR
<i>Purpurocardia reinga</i> (Powell, 1933)	Bivalve	Carditidae	RR
<i>Sundaya exquisita</i> Oliver, 1915	Snail	Cerithiopsidae	RR
<i>Herpetopoma pruinosa</i> B.A. Marshall, 1980	Snail	Chilodontidae	RR
<i>Chiton themeropsis</i> (Iredale, 1914)	Chiton	Chitonidae	RR
<i>Onithochiton oliveri</i> (Iredale, 1914)	Chiton	Chitonidae	RR
<i>Rhyssoxplax exasperata</i> Iredale, 1915	Chiton	Chitonidae	RR
<i>Cirroctopus hochbergi</i> O'Shea, 2000	Four-blotched umbrella octopus	Cirroctopodidae	DP, Sp
<i>Etrema hedleyi</i> (Oliver, 1915)	Cone snail	Clathurellidae	RR
<i>Lienardia roseocincta</i> (Oliver, 1915)	Snail	Clathurellidae	RR
<i>Leptothyra benthicola</i> B.A. Marshall, 1980	Snail	Colloniidae	RR
<i>Leptothyra kermadecensis</i> B.A. Marshall, 1980	Snail	Colloniidae	RR
<i>Zafra fuscolineata</i> Oliver, 1915	Whelk	Columbellidae	RR
<i>Zafra kermadecensis</i> Oliver, 1915	Whelk	Columbellidae	RR
<i>Benthocardiella obliquata bountyensis</i> Powell, 1934	Bivalve	Condylocardiidae	DP, RR
<i>Vexillum iredalei</i> (Powell, 1958)	snail	Costellariidae	RR
<i>Crassatina iredalei</i> (Powell, 1958)	Bivalve	Crassatellidae	RR
<i>Crosseola favosa</i> Powell, 1937	Snail	Crosseolidae	RR
<i>Crosseola intertexta</i> Powell, 1937	Snail	Crosseolidae	RR
<i>Cyclochlamyx pileolus</i> Dijkstra & B.A. Marshall, 2008	Scallop	Cyclochlamyxidae	DP, RR
<i>Iredalea subtropicalis</i> Oliver, 1915	Cone shell	Drilliidae	RR
<i>Eatoniella</i> (E.) <i>iredalei</i> (Oliver, 1915)	Snail	Eatoniellidae	RR
<i>Epigrus gracilis</i> Oliver, 1915	Snail	Epigridae	RR
<i>Epigrus insularis</i> Oliver, 1915	Snail	Epigridae	RR
<i>Annulobalcis marshalli</i> Warén, 1981	Snail	Eulimidae	RR
<i>Fuscapex ophioacanthicola</i> Warén, 1981	Snail	Eulimidae	OL, DP, RR
<i>Fusculima goodingi</i> Warén, 1981	Snail	Eulimidae	OL, DP, RR
<i>Melanella kermadecensis</i> Oliver, 1915	Snail	Eulimidae	RR
<i>Melanella luminosa</i> B.A. Marshall, 1997	Snail	Eulimidae	RR
<i>Melanella perplexa</i> Oliver, 1915	Snail	Eulimidae	RR
<i>Melanella spinosa</i> Oliver, 1915	Snail	Eulimidae	RR
<i>Ophieulima fuscoapicata</i> Warén, 1981	Snail	Eulimidae	OL, DP
<i>Punctifera ophiomoerae</i> Warén, 1981	Snail	Eulimidae	OL, DP
<i>Pyramidelloides suteri</i> (Oliver, 1915)	Snail	Eulimidae	RR

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NAME AND AUTHORITY	COMMON NAME	FAMILY	QUALIFIERS
<i>Cornisepta festiva</i> (Crozier, 1966)	Snail	Fissurellidae	RR
<i>Diodora bollonsi</i> (Oliver, 1915)	Snail	Fissurellidae	RR
<i>Emarginula connectens</i> Thiele, 1915	Snail	Fissurellidae	RR
<i>Fissurisepta manawatawhia</i> Powell, 1937	Snail	Fissurellidae	RR
<i>Zygoceras tropidophora</i> Warén & Bouchet, 1991	snail	Haloceratidae	OL, DP, SO
<i>Larochaea spirata</i> Geiger & B.A. Marshall, 2012	Snail	Larochaeidae	RR
<i>Larochaeopsis amplexa</i> B.A. Marshall, 1993	Snail	Larochaeidae	RR
<i>Leptochiton norfolcensis subtropicalis</i> (Iredale, 1914)	Chiton	Leptochitonidae	RR
<i>Laevilitorina antipodum</i> (Filhol, 1880)	Snail	Littorinidae	RR
<i>Laevilitorina bifasciata</i> Suter, 1914	Snail	Littorinidae	RR
<i>Laevilitorina delli</i> (Powell, 1955)	Snail	Littorinidae	RR
<i>Munditia anomala</i> Powell, 1941	Snail	Liotiidae	RR
<i>Munditia aupouria</i> Powell, 1937	Snail	Liotiidae	RR
<i>Munditia delicatula</i> Powell, 1941	Snail	Liotiidae	RR
<i>Munditia echinata</i> Powell, 1937	Snail	Liotiidae	RR
<i>Munditia manawatawhia</i> Powell, 1937	Snail	Liotiidae	RR
<i>Munditia suteri</i> (Mestayer, 1919)	Snail	Liotiidae	RR
<i>Bathyaustriella thionipta</i> Glover, Taylor & Rowden, 2004	Bivalve	Lucinidae	RR
<i>Lutraria bruuni</i> Powell, 1967	Bivalve	Mactridae	OL, DP, RR
<i>Oxyperas belliana</i> (Oliver, 1915)	Bivalve	Mactridae	RR
<i>Serrata raoullica</i> B.A. Marshall, 2004	Snail	Marginellidae	RR
<i>Cancilla kermadecensis</i> (Cernohorsky, 1978)	Snail	Mitridae	RR
<i>Mitromorpha expeditionis</i> Oliver, 1915	Cone shell	Mitromorphidae	RR
<i>Mysella tellinula</i> (Odhner, 1924)	Bivalve	Montacutidae	RR
<i>Hexaplex puniceus</i> Oliver, 1915	Snail	Muricidae	RR
<i>Hirtomurex tangaroa</i> Marshall & Oliverio, 2009	Snail	Muricidae	RR
<i>Hirtomurex taranui</i> B.A. Marshall & Oliverio, 2009	Snail	Muricidae	RR
<i>Trophon subtropicalis</i> Iredale, 1913	Snail	Muricidae	RR
<i>Hunkydora rakiura</i> B.A. Marshall, 2002	Bivalve	Myochamidae	RR
<i>Gigantidas gladius</i> Cosel & B.A. Marshall, 2003	Vent mussel	Mytilidae	RR
<i>Cellana craticulata</i> (Suter, 1905)	Limpet	Nacellidae	RR
<i>Cellana oliveri</i> Powell, 1955 E	Limpet	Nacellidae	RR
<i>Nacella terroris</i> (Filhol, 1880)	Limpet	Nacellidae	RR
<i>Micropilina rakiura</i> B.A. Marshall, 1999	Monoplacophoran	Neopiliinidae	RR
<i>Micropilina tangaroa</i> B.A. Marshall, 1991	Monoplacophoran	Neopiliinidae	DP, RR
<i>Rokopella capulus</i> B.A. Marshall, 2006	Monoplacophoran	Neopiliinidae	DP
<i>Pronucula kermadecensis</i> Oliver, 1915	Bivalve	Nuculidae	RR
<i>Opisthoteuthis chathamensis</i> O'Shea, 2000	Roughy umbrella octopus	Opisthoteuthidae	Sp
<i>Scutellastra kermadecensis</i> (Pilsbry, 1894)	Limpet	Patellidae	RR
<i>Cyclopecten fluctuatus</i> (Bavay, 1905)	Scallop	Pectinidae	DP, RR, SO
<i>Dilemma inexpectatum</i> (Crozier, 1967)	Bivalve	Poromyidae	RR
<i>Cyclopecten fluctuosus</i> Dijkstra & B.A. Marshall, 2008	Scallop	Propeamussiidae	DP, RR
<i>Cyclopecten horridus</i> Dijkstra, 1995	Scallop	Propeamussiidae	DP, RR
<i>Cyclopecten kermadecensis</i> (E.A. Smith, 1885)	Scallop	Propeamussiidae	RR
<i>Pteria avicula</i> (Holten, 1802)	Bivalve	Pteriidae	DP, RR, SO
<i>Eulimella inexpectata</i> (Oliver, 1915)	Snail	Pyramidellidae	RR
<i>Hinemoa punicea</i> Oliver, 1915	Snail	Pyramidellidae	RR
<i>Besla insularis</i> (Oliver, 1915)	Snail	Pyramidellidae	RR
<i>Kermia benhami</i> Oliver, 1915	Cone shell	Raphitomidae	RR
<i>Rastodens electra</i> (Oliver, 1915)	Snail	Rastodontidae	RR
<i>Pusillina wallacei</i> (Oliver, 1915)	Snail	Rissoidae	RR

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NAME AND AUTHORITY	COMMON NAME	FAMILY	QUALIFIERS
<i>Striatestea poutama</i> Ponder, 1967	Snail	Rissoidae	RR
<i>Striatestea bountyensis</i> Powell, 1927	Snail	Rissoidae	RR
<i>Striatestea eulima</i> Powell, 1940	Snail	Rissoidae	RR
<i>Alvania kermadecensis</i> (Oliver, 1915)	Snail	Rissoidae	RR
<i>Sinezona brucei</i> Geiger, 2012	Slit shell	Scissurellidae	RR
<i>Sinezona enigmatica</i> Geiger & B.A. Marshall, 2012	Slit shell	Scissurellidae	OL
<i>Sinezona pacifica</i> (Oliver, 1915)	Slit shell	Scissurellidae	RR
<i>Sinezona platyspira</i> Geiger & B.A. Marshall, 2012	Slit shell	Scissurellidae	RR
<i>Satondella bicristata</i> Geiger & B.A. Marshall, 2012	Slit shell	Scissurellidae	RR
<i>Scissurella bountyensis</i> Powell, 1933	Slit shell	Scissurellidae	RR
<i>Scissurella fairchildi</i> Powell, 1934	Slit shell	Scissurellidae	RR
<i>Brookula stibarochila</i> (Iredale, 1912)	Snail	Seguenzioidea	RR
<i>Lissotesta conoidea</i> Powell, 1937	Snail	Seguenzioidea	RR
<i>Cirsonella laxa</i> Powell, 1937	Snail	Skeneidae	RR
<i>Cirsonella maoria</i> (Powell, 1937)	Snail	Skeneidae	RR
<i>Cirsonella paradoxa</i> Powell, 1937	Snail	Skeneidae	RR
<i>Philorene texturata</i> Oliver, 1915	Snail	Skeneidae	RR
<i>Archiminolia dawsoni</i> (B.A. Marshall, 1979)	Snail	Solariellidae	DP, RR
<i>Archiminolia hurleyi</i> (B.A. Marshall, 1979)	Snail	Solariellidae	DP, RR
<i>Bathymophila valentia</i> B.A. Marshall, 2000	Snail	Solariellidae	RR
<i>Grippina acherontis</i> B.A. Marshall, 2002	Bivalve	Spheniopsidae	OL, RR
<i>Grippina globosa</i> B.A. Marshall, 2002	Bivalve	Spheniopsidae	RR
<i>Grippina pumila</i> B. Marshall, 2002	Bivalve	Spheniopsidae	RR
<i>Grippina spirata</i> B. Marshall, 2002	Bivalve	Spheniopsidae	RR
<i>Spondylus raoulensis</i> Oliver, 1915	Scallop	Spondylidae	RR
<i>Tectus royanus</i> (Iredale, 1912)	Snail	Tegulidae	RR
<i>Graphis sculpturata</i> (Oliver, 1915)	Snail	Tofanellidae	RR
<i>Tornus aupaoria</i> (Powell, 1937)	Snail	Tornidae	RR
<i>Tornus maoria</i> (Powell, 1937)	Snail	Tornidae	RR
<i>Metaxia kermadecensis</i> B.A. Marshall 1978	Snail	Triphoridae	RR
<i>Cantharidus antipoda hinemoa</i> (Powell, 1956)	Snail	Trochidae	RR
<i>Cantharidus burchorum</i> B.A. Marshall, 1999	Snail	Trochidae	RR
<i>Cantharidus festivus</i> (B.A. Marshall, 1999)	Snail	Trochidae	RR
<i>Clanculus atypicus</i> Iredale, 1913	Snail	Trochidae	RR
<i>Coelotrochus carinatus</i> (B.A. Marshall, 1998)	Snail	Trochidae	RR
<i>Coelotrochus polychroma</i> (B.A. Marshall, 1999)	Snail	Trochidae	RR
<i>Coelotrochus rex</i> (B.A. Marshall, 1998)	Snail	Trochidae	RR
<i>Monilea incerta</i> Iredale 1913	Snail	Trochidae	RR
<i>Stomatella oliveri</i> (Iredale, 1912)	Snail	Trochidae	RR
<i>Bolma kermadecensis</i> Beu & Ponder, 1979	Snail	Turbinidae	RR
<i>Vanikoro wallacei</i> Iredale, 1912	Snail	Vanikoridae	RR
Phylum Porifera			
<i>Aulocalyx australis</i> Reiswig & Kelly, 2011	Glass sponge	Aulocalycidae	DP, RR, Sp
<i>Auloplax breviscopulata</i> Reiswig & Kelly, 2011	Glass sponge	Aulocalycidae	DP, RR, Sp
<i>Chonelasma lamella</i> Schulze, 1888	Glass sponge	Euretidae	Sp
<i>Farrea ananchorata</i> Reiswig & Kelly, 2011	Glass sponge	Farreidae	DP, RR, Sp
<i>Farrea anoxyhexastera</i> Reiswig & Kelly, 2011	Glass sponge	Farreidae	DP, Sp
<i>Farrea similis</i> Reiswig & Kelly, 2011	Glass sponge	Farreidae	Sp
<i>Hexactinella simplex</i> Reiswig & Kelly, 2011	Glass sponge	Tretodictyidae	DP, Sp

Non-resident Native (o)

Taxa whose natural presence in New Zealand is either discontinuous (Migrant) or sporadic or temporary (Vagrant) or which have succeeded in recently (since 1950) establishing a resident breeding population (Coloniser).

Migrant

Taxa that predictably and cyclically visit New Zealand as part of their normal life cycle (a minimum of 15 individuals known or presumed to visit per annum) but do not breed here.

No taxonomically determinate marine invertebrate taxa are listed in this category.

Vagrant

Taxa whose occurrences, though natural, are sporadic and typically transitory, or migrants with fewer than 15 individuals visiting New Zealand per annum.

No taxonomically determinate marine invertebrate taxa are listed in this category.

Coloniser

Taxa that otherwise trigger Threatened categories because of small population size, but have arrived in New Zealand without direct or indirect help from humans and have been successfully reproducing in the wild only since 1950.

No taxonomically determinate marine invertebrate taxa are listed in this category.

Not Threatened (19)

Resident native taxa that have large, stable populations.

NAME AND AUTHORITY	COMMON NAME	FAMILY	QUALIFIERS
Phylum Arthropoda			
<i>Lithodes aotearoa</i> Ahyong, 2010	King crab	Lithodidae	Sp
<i>Neolithodes brodiei</i> Dawson & Yaldwyn, 1970	King crab	Lithodidae	Sp
Phylum Bryozoa			
<i>Cinctipora elegans</i> Hutton, 1873	Bryozoan	Cinctiporidae	
<i>Hippomenella vellicata</i> (Hutton, 1873)	Bryozoan	Escharinidae	
<i>Celleporaria agglutinans</i> (Hutton, 1873)	Bryozoan	Lepraliellidae	
Phylum Mollusca			
<i>Calliostoma turnerarum</i> (Powell, 1964)	Snail	Calliostomatidae	
<i>Cyclochlamys transenna</i> (Suter, 1913)	Scallop	Cyclochlamyidae	
<i>Notoacmea badia</i> Oliver, 1927	Limpet	Lottiidae	
<i>Notoacmea helmsi</i> (E.A. Smith, 1894)	Limpet	Lottiidae	
<i>Cellana strigilis</i> (Hombron & Jacquinot, 1841)	Limpet	Nacellidae	RR
<i>Sinepecten segonzaci</i> Schein, 2006	Scallop	Pectinidae	SO
<i>Archiminolia tenuiseptum</i> B.A. Marshall, 2000	Snail	Solariellidae	
<i>Astraea heliotropium</i> (Martyn, 1784)	Circular saw shell	Turbinidae	
<i>Alcithoe benthicola</i> (Dell, 1963)	Volute	Volutidae	
<i>Alcithoe fissurata</i> (Dell, 1963)	Volute	Volutidae	
<i>Alcithoe flemingi</i> Dell, 1978	Volute	Volutidae	
<i>Alcithoe larochei</i> Marwick, 1926	Volute	Volutidae	
<i>Alcithoe lutea</i> (Watson, 1882)	Volute	Volutidae	
<i>Provocator mirabilis</i> (Finlay, 1926)	Volute	Volutidae	

Introduced and Naturalised (0)

Taxa that have become naturalised in the wild after being deliberately or accidentally introduced into New Zealand by human agency.

No taxonomically determinate marine invertebrate taxa are listed in this category.

2.2 Taxonomically indeterminate

This section includes described taxa whose taxonomic status is uncertain and requires further investigation, and also potentially distinct marine invertebrates whose taxonomic status has yet to be determined. Definitions of threat categories follow those given in the Taxonomically Determinate section above.

Data Deficient (6)

NAME AND AUTHORITY	COMMON NAME	FAMILY	QUALIFIERS
Phylum Cnidaria			
<i>Mopsea</i> sp.	Bamboo coral	Isididae	DP, SO, Sp
<i>Peltastisis</i> sp.	Bamboo coral	Isididae	DP, Sp
<i>Primnoisis</i> sp. C	Bamboo coral	Isididae	
<i>Sclerisis</i> sp. NIWA J. Sanchez	Bamboo coral	Isididae	DP, OL
<i>Protulophila</i> sp.	Hydroid		
Phylum Mollusca			
<i>Calyptogena</i> spp. (NZOI)	Giant seep clam	Vesicomysidae	

At Risk (102)

Naturally Uncommon (102)

NAME AND AUTHORITY	COMMON NAME	FAMILY	QUALIFIERS
Phylum Bryozoa			
Alcyonidium n. sp. 1 Leigh Reserve	Bryozoan	Alcyoniidae	OL, DP
Phylum Cnidaria			
<i>Antipathes</i> n. sp.	Black coral	Antipathidae	RR
<i>Solastionax</i> aff. <i>alleryi</i> (Seguenza, 1876) (NZOI TAN107.053)	Snail	Architectonicidae	DP, RR
<i>Acanella</i> spp.	Bamboo coral	Isididae	DP, SO
<i>Chathamisis</i> spp. Kermadec Ridge	Bamboo coral	Isididae	DP, Sp
<i>Echinisis spicata</i> (Hickson, 1907)	Bamboo coral	Isididae	DP, SO
<i>Echinisis</i> spp.	Bamboo coral	Isididae	DP
<i>Keratoisis</i> n. sp.	Bamboo coral	Isididae	DP, Sp
<i>Minuisis</i>	Bamboo coral	Isididae	DP, Sp
<i>Gonaxia</i> sp. (NZOI)	Hydrozoan	Sertulariidae	OL, RR
Phylum Mollusca			
<i>Anabathron</i> sp. aff. <i>ovatus</i> (Powell, 1927) (NMNZ M.227089)	Snail	Anabathridae	RR
<i>Bellomitra</i> sp. (NZOI TAN107.127)	Whelk	Belomitridae	DP, RR
<i>Buccipagoda</i> sp. (NZOI TAN107.136)	Whelk	Buccinidae	DP, RR

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Naturally Uncommon continued

NAME AND AUTHORITY	COMMON NAME	FAMILY	QUALIFIERS
<i>Eosipho</i> sp. (NMNZ M.150056)	whelk	Buccinidae	DP, RR
<i>Calliostoma</i> sp. (NZOI TAN107.233)	Snail	Calliostomatidae	RR
<i>Calliotropis</i> sp. A (NMNZ M.152747)	Snail	Calliostomatidae	DP, RR
<i>Calliotropis</i> sp. B (NMNZ M.152735)	Snail	Calliostomatidae	DP, RR
<i>Thysanodonta</i> sp. (NMNZ M.152736)	Snail	Calliostomatidae	DP, RR
<i>Pleuromeris</i> sp. (NMNZ M.148741)	Bivalve	Carditidae	RR
<i>Danilia</i> sp. (NZOI U599)	Snail	Chilodontidae	DP, RR
<i>Granata</i> sp. (NMNZ M.148566)	Snail	Chilodontidae	RR
<i>Herpetopoma</i> sp. (NZOI TAN107.233)	Snail	Chilodontidae	RR
<i>Tegulaplex</i> sp. (NZOI TAN107.235)	Chiton	Chitonidae	DP, RR
<i>Argalista</i> sp. A (NMNZ M.148551)	Snail	Colloniidae	RR
<i>Argalista</i> sp. B (NMNZ M.148552)	Snail	Colloniidae	RR
<i>Cantrainea</i> sp. A (NZOI TAN107.323)	Snail	Colloniidae	DP, RR
<i>Cantrainea</i> sp. B (NZOI TAN107.323)	Snail	Colloniidae	DP, RR
<i>Cantrainea</i> sp. C (NZOI TAN107.235)	Snail	Colloniidae	DP, RR
<i>Mitrella</i> sp. A (NZOI TAN107.233)	Whelk	Columbellidae	DP, RR
<i>Mitrella</i> sp. B (NZOI TAN107.323)	Whelk	Columbellidae	DP, RR
<i>Benthocardiella</i> sp. A (NMNZ M.148673)	Bivalve	Condylocardiidae	RR
<i>Benthocardiella</i> sp. B (NMNZ M.148674)	Bivalve	Condylocardiidae	RR
<i>Benthocardiella</i> sp. C (NMNZ M.148675)	Bivalve	Condylocardiidae	RR
<i>Benthocardiella</i> sp. D (NMNZ M.148676)	Bivalve	Condylocardiidae	RR
<i>Carditella</i> sp. (NMNZ M.20766)	Bivalve	Condylocardiidae	RR
<i>Condylocuna</i> sp. A (NMNZ M.144652)	Bivalve	Condylocardiidae	RR
<i>Condylocuna</i> sp. B (NMNZ M.144656)	Bivalve	Condylocardiidae	RR
<i>Condylocuna</i> sp. C (NMNZ M.144657)	Bivalve	Condylocardiidae	RR
<i>Condylocuna</i> sp. D (NMNZ M.144658)	Bivalve	Condylocardiidae	RR
<i>Hamacuna</i> sp. A (NMNZ M.143347)	Bivalve	Condylocardiidae	RR
<i>Hamacuna</i> sp. B (NMNZ M.149015)	Bivalve	Condylocardiidae	RR
<i>Talabrica</i> sp. (NMNZ M.137651)	Bivalve	Crassatellidae	RR
<i>Cyamiomactra</i> sp. A (NMNZ M.60854)	Bivalve	Cyamiidae	RR
<i>Cyamiomactra</i> sp. B (NMNZ M.33947)	Bivalve	Cyamiidae	RR
<i>Kidderia</i> sp. (NMNZ M.134975)	Bivalve	Cyamiidae	RR
<i>Perrierina</i> sp. (NMNZ M.96189)	Bivalve	Cyamiidae	RR
<i>Amaea</i> sp. (NZOI TAN107.233)	Snail	Epitoniidae	DP, RR, SO?
<i>Asterophila</i> sp. Warén & Lewis, 1994	Snail	Eulimidae	DP, RR
<i>Niso</i> sp. (NZOI TAN107.225)	Snail	Eulimidae	DP, RR
<i>Stilapex</i> sp. (NMNZ M.232084)	Snail	Eulimidae	OL
<i>Stilifer</i> sp. (NMNZ M.150057)	Snail	Eulimidae	DP, OL
<i>Clathrosepta</i> sp. (NZOI U608)	Snail	Fissurellidae	DP, RR
<i>Cranopsis</i> sp. (NZOI TAN107.323)	Snail	Fissurellidae	RR
<i>Fissurellidae</i> sp. (NMNZ M.118002)	Snail	Fissurellidae	RR
<i>Fissurisepta</i> sp. (NMNZ M.138467)	Snail	Fissurellidae	RR
<i>Profundisepta</i> sp. A (NMNZ M.148575)	Snail	Fissurellidae	RR
<i>Profundisepta</i> sp. B (NMNZ M.138462)	Snail	Fissurellidae	RR
<i>Puncturella</i> sp. (NZOI U601)	Snail	Fissurellidae	DP, RR
<i>Rimulanax</i> sp. (NMNZ M.225598)	Snail	Fissurellidae	DP, RR
<i>Tugali</i> sp. (NMNZ M.36012)	Snail	Fissurellidae	RR
<i>Meiocardia</i> sp. (NZOI T256)	Bivalve	Glossidae	DP, RR, SO?
<i>Haloceras</i> sp. 1 (NZOI U573)	Snail	Haloceratidae	DP, OL, RR
<i>Haloceras</i> sp. 2 (M.147782)	Snail	Haloceratidae	DP, OL, RR
<i>Haloceras</i> sp. 3 (NZOI P941)	Snail	Haloceratidae	DP, OL, RR

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NAME AND AUTHORITY	COMMON NAME	FAMILY	QUALIFIERS
<i>Lepetopsidae</i> sp. (NMNZ M.158228)	Limpet	Lepetopsidae	RR
<i>Pectunculina</i> sp. (NMNZ M.225313)	Bivalve	Limopsidae	DP, RR
<i>Serrata</i> sp. A (NMNZ M.227078)	Snail	Marginellidae	RR
<i>Idioteuthis cordiformis</i> (Chun, 1908)	Giant squid	Mastigoteuthidae	Sp, SO
<i>Mysella</i> sp. (NMNZ M.51502)	Bivalve	Montacutidae	RR
<i>Amygdalum</i> sp. (NMNZ M.147338)	Mussel	Mytilidae	Sp, SO?
<i>Nassarius</i> sp. (NZOI TAN107.218)	Whelk	Nassariidae	RR
<i>Peltospiridae</i> sp. A (NZOI Z9504)	Snail	Peltospiridae	DP, RR
<i>Peltospiridae</i> sp. B (NZOI Z9504)	Snail	Peltospiridae	DP, RR
<i>Peltospiridae</i> sp. C (NZOI Z9504)	Snail	Peltospiridae	DP, RR
<i>Olgasolaris</i> sp. (NZOI TAN107.228)	Snail	Phenacolepadidae	DP, RR
<i>Kaiparapelta</i> sp. (NMNZ M.137534)	Snail	Pseudococculinidae	DP, RR
<i>Pteria</i> sp. (NMNZ M.158247)	Bivalve	Pteriidae	RR
<i>Phymorhynchus</i> sp. (NZOI KAH11.21)	Cone shell	Raphitomidae	DP
<i>Merelina</i> sp. A (NMNZ M.148669)	Snail	Rissoidae	RR
<i>Merelina</i> sp. B (NMNZ M.148670)	Snail	Rissoidae	RR
<i>Merelina</i> sp. C (NMNZ M.148671)	Snail	Rissoidae	RR
<i>Merelina</i> sp. D (NMNZ M.148668)	Snail	Rissoidae	RR
<i>Ancistrobasis</i> sp. (NZOI TAN107.232)	Snail	Seguenziidae	DP, RR
<i>Abra</i> sp. (NMNZ M.225609)	Bivalve	Semelidae	DP, RR
<i>Skeneoides</i> sp. (NMNZ M.148557)	Snail	Skeneidae	OL
<i>Solariella</i> sp. A (NZOI TAN107.233)	Snail	Solariellidae	DP, RR
<i>Solariella</i> sp. B (NZOI TAN107.225)	Snail	Solariellidae	DP, RR
<i>Solariella</i> sp. C (NZOI W672)	Snail	Solariellidae	DP, RR
<i>Solecurtus</i> sp. (NMNZ M.225439)	Bivalve	Solecurtidae	DP, RR
<i>Cantharidus</i> sp. A (NMNZ M.59506)	Snail	Trochidae	RR
<i>Cantharidus</i> sp. B (NMNZ M.131607)	Snail	Trochidae	RR
<i>Conchocele</i> sp. (NMNZ M.28418)	Bivalve	Thyasiridae	RR
<i>Turbinellid</i> sp. (NZOI TAN107.134)	Snail	Turbinellidae	DP, RR
Phylum Porifera			
<i>Lissodendoryx</i> sp. (yellow slimy)	Sponge "yellow slimy"	Coelosphaeridae	RR

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