

Appendix 2

THREAT-LISTING INFORMATION AND QUESTIONNAIRE

Date

Dear

Specialist group:

In 2002, the Department of Conservation developed a new system for classifying organisms according to their risk of extinction (Molloy et al. 2002). This system allows the classification of conservation status/risk of extinction of all organisms known to occur in a wild state in New Zealand. Endemics, non-endemic natives, migrants, vagrants, and introduced and naturalised species are all included, as are taxa which have not been formally described. This is not a priority-setting system in the way that the listing of Molloy & Davis (1992, 1994) was, so does not include information on taxonomic distinctiveness, or on human values. It is an accurate, constantly-updatable database that is a resource for priority setting, among other functions, rather than a priority list in itself. The lists are available for use by anyone interested and are accessible through the DOC web-site:

<http://www.doc.govt.nz/Publications/004~Science-and-Research/Biodiversity-Recovery-Unit/Occasional-publications.asp#Threat%20Classification>

In order to provide the most accurate information, the list is to be fully reviewed and updated every 3 years. The time has come to undertake this process and as such we now wish to gather data to begin the reclassification of species under this system. We would therefore be very grateful if you would provide information in response to the attached questionnaire on species or lower-level taxa in your specialist group that you consider to be threatened, or potentially threatened but lacking data on their status. We are aware of your expertise in the groups named at the head of this letter, but if you have expertise in other taxa, you are welcome to complete questionnaires for those also. Taxa need not be formally described to be included, but those not formally named, and named taxa of disputed validity will be listed with a "Taxonomically indeterminate" tag to distinguish them from those with widely accepted, published scientific names. This does not mean that they will receive lower priority for action. In some groups some data, such as those for population trends, may be unknown, but these species are still worth listing. A Data Deficient classification is useful for highlighting needs for research or survey. The most endangered species will be classified as Nationally Critical, those with very restricted distributions as Range Restricted, and those with very low population densities as Sparse even in the absence of trend data. All classifications can be tagged Data Poor if necessary.

Small expert panels will meet to review the classification of all species, on the basis of information supplied by you and other specialists like you.

The bird listing panel has already met, because of difficulties finding available dates later in the year, but any significant new information you wish to supply will still be considered and discussed among the panel by email. The freshwater fish panel will meet on 13 September, and the reptile panel on 16 September. Please supply responses for these groups before those dates. Other panel meetings will follow in late September and early October – please supply information by mid September. Please contact me (details below) or Leigh Bull (direct dial 04 471 3293; e-mail lsbull@doc.govt.nz) if you need any assistance or clarification about this questionnaire.

Regards

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Listing species

Points of clarification about the listing process are:

1. Assessments are made on the status of the taxon irrespective of whether its current status is the result of management (or not).
2. For indigenous taxa, the portion of the population that is resident in New Zealand is assessed.
3. For taxa that migrate to New Zealand and breed here, the portion of the total population that breeds in New Zealand is assessed against the Acutely and Chronically Threatened criteria.
4. When evaluating a taxon against the criteria, the expert groups will use a precautionary approach. For instance, in situations where information about a taxon is poor, and a decision is being made between two categories, the higher threat category will be chosen. When predicting future declines caused by existing threats, recent declines will be used to project forward.
5. In cases where the information used to evaluate a taxon is poor, the expert group will make every effort to list the taxon in a threat category rather than assigning it to the Data Deficient category. The qualifier DP (data poor) can be used to indicate that there is uncertainty about the listing due to lack of data.
6. In cases where a taxon is currently declining after a human-induced population increase that expanded the population beyond its natural size, (e.g. *Ranunculus urvilleanus*) the taxon will not be listed in the Acutely or Chronically Threatened categories.
7. As soon as a taxon is reassessed against the system, and does not meet the criteria of its category, it will be upgraded or downgraded to the appropriate category. This contrasts to the IUCN classification system that requires a period of 5 years to elapse before a taxon is downgraded.

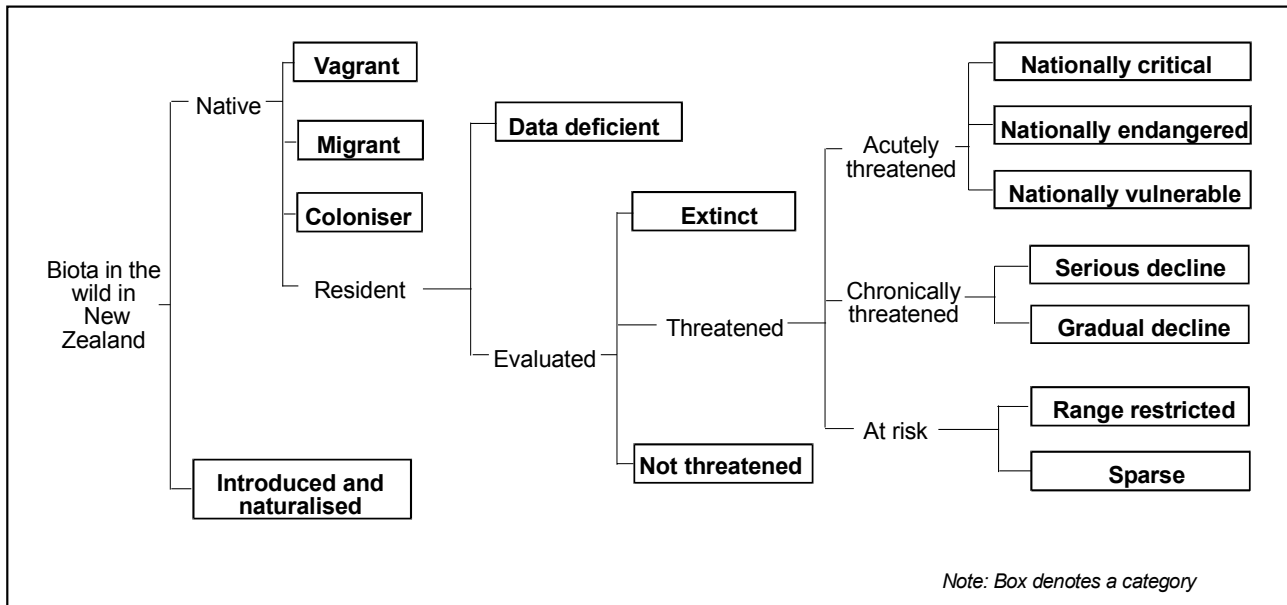
Definitions of terms

Definitions of terms used to define categories and criteria are listed below. Those that are derived from IUCN definitions are marked with an asterisk.

Population*	The total number of individuals of the taxon that are resident, or breed in New Zealand. For functional reasons, primarily owing to differences between life-forms, population numbers are expressed as numbers of mature individuals only. (See also definition of sub-population.)
Area of occupancy*	The area that is occupied by the taxon, taking into account the fact that a taxon may not occupy all areas throughout its range because of unsuitable habitat. The smallest area essential at any stage in the life cycle of the taxon will be used (e.g. colonial nesting sites).
Colonisers	Taxa that have arrived in New Zealand without direct or indirect help from humans and have been successfully reproducing in the wild for less than 50 years.
Extinct*	After confirmation of the taxon's former presence and correct identification, there is no reasonable doubt, after 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.
Habitat	The sustaining ecosystem that the taxon depends upon. When estimating percentage decline of habitat area, include those areas where the taxon has not been able to complete all of its life cycle because of the presence of animals and plants that do not naturally occur there.
Introduced and Naturalised	Taxa that have become naturalised in the wild after being deliberately or accidentally introduced to New Zealand by human agency.
Migrant	Taxa that predictably and cyclically visit New Zealand as part of their normal life cycle, but do not breed here.

Mature individuals*	<p>The number of mature individuals is defined as the number of individuals known, estimated or inferred to be capable of reproduction. When estimating this quantity the following points will be borne in mind:</p> <ul style="list-style-type: none"> • Where the population is characterised by natural fluctuations the minimum number will be used. • This measure is intended to count individuals capable of reproduction and will therefore exclude individuals that are environmentally, behaviourally or otherwise reproductively suppressed in the wild. • In the case of populations with biased adult or breeding sex ratios it is appropriate to use lower estimates for the number of mature individuals which take this into account (e.g. the estimated effective population size). • Reproducing units within a clone will be counted as individuals, except where such units are unable to survive alone (e.g. corals). • In the case of taxa that naturally lose all or a subset of mature individuals at some point in their life cycle, the estimate will be made at the appropriate time, when mature individuals are available for breeding.
Subpopulation*	<p>Geographically or otherwise distinct groups in the population between which there is little exchange (typically one successful migrant individual or gamete per year or less). Re-introduced wild populations must be self sustaining before they are included as a sub population. Populations held in captive institutions or grown in nurseries or gardens are not considered to be within the definition of sub-population, unless they are the only remaining individuals of the taxon.</p>
Taxon (plural taxa)	<p>Any taxonomic entity that has been acknowledged by relevant experts (see definitions for taxonomically distinct and taxonomically indeterminate).</p>
Taxonomically Distinct	<p>Taxa that are published and generally accepted by relevant experts as distinct (species, subspecies, variety and forma).</p>
Taxonomically Indeterminate	<p>Taxa that are either published but not generally accepted as distinct, or taxa that are yet to be published.</p>
Vagrant	<p>Taxa that are found unexpectedly and rarely in New Zealand and whose presence in the New Zealand region is naturally transitory. These are invariably taxa that have failed to establish themselves beyond their point of arrival because of reproductive failure or for specific ecological reasons (see de Lange and Norton 1998).</p>

Structure of the New Zealand threat classification system



Note: Box denotes a category

Questionnaire:

Please copy this form as many times as required to complete a questionnaire for every species or lower-level taxon in your taxonomic group that you consider to be threatened, or data deficient and potentially threatened.

Your name

Address

E-mail

Telephone numbers

Taxon:

Scientific name

Common name

General status:

Does the taxon have a formally published name that is generally accepted by those working on the group? **Yes / No**

Is the taxon (please tick correct choices)

- Introduced and naturalised
- A vagrant visitor with no resident breeding population
- A regular migrant to New Zealand not breeding in New Zealand
- A colonist which has established without human assistance and begun breeding in the wild in the last 50 years
- Native but non-endemic, including natural colonists established for more than 50 years, and migrants which breed or spend the great majority of their lives in New Zealand but are also breeding or resident elsewhere
- Endemic, including migrants which breed or spend the great majority of their lives only in New Zealand
- Believed to be extinct after adequate search effort?

If non-endemic, is the taxon threatened in the parts of its natural range outside New Zealand? **Yes / No**

If non-endemic, is the taxon secure in other parts of its natural range outside New Zealand? **Yes / No**

For non-endemic taxa, please consider only the New Zealand populations when answering the questions below (please also answer the questions for endemic taxa):

Is the taxon extinct in the wild, but surviving in captivity or cultivation? **Yes / No**

Will the status of the taxon deteriorate if current species specific management ceases?
Yes / No

Is the taxon sufficiently well-known to meaningfully answer the questions below?
Yes / No (if no, then stop here)

Population:

Is the total population size

- <250 mature individuals
- 250-1000 mature individuals
- 1000-5000 mature individuals
- >5000 mature individuals
- unknown?

Please provide more accurate estimate if possible:

Is the total area occupied

- <1 ha (0.01 km²)
- 1-10 ha (0.01-0.1 km²)
- 10-100 ha (0.1-1 km²)
- >100 ha (1 km²)
- unknown?

Please provide more accurate estimate if possible:

Is the taxon subject to extreme unnatural population fluctuations, or natural fluctuations overlaying human-induced declines, such that the fluctuation increases the threat of extinction? **Yes / No**

Sub-populations:

Do the data available for your assessment of the questions below allow

- Confident response for the taxon throughout its range
- Confident response for many but not all sub-populations
- Confident response for only a small subset of sub-populations
- Low confidence in all estimates?

Is the known number of sub-populations of the taxon

- ≤2
- 3-5
- 6-15
- >15?

Please provide more accurate estimate if possible:

Is the taxon found at only one location, so that a single event (e.g., a predator irruption) could soon affect all individuals of the taxon? **Yes / No**

Is the number of mature individuals in the largest known sub-population

- <200
- 200-300
- 300-500
- >500
- unknown?

Decline:

Regardless of whether or not the trend is the result of management, is the total population now

- showing a sustained recovery
- stable
- in decline?

If in decline, do existing threats mean the decline in the total population in the next 10 years is predicted to be

- >80%
- 60-80%
- 30-60%
- 5-30%
- Not applicable?

Is this decline predicted to continue beyond the next 10 years?

Yes / No / Not Applicable

In the period since 2001/02, has the species changed:

- in total population by
- in area occupied by
- in number of existing populations by

What is the likely cause of this change (above)?

.....

.....

.....

.....

Is recruitment failure¹ likely to result in catastrophic declines in the future? **Yes / No**

¹ Current population may appear stable but the age structure is such that catastrophic declines are likely in the future (Molloy et al. 2002).

Is the total habitat area currently in decline? **Yes / No**

Has there been a decline in either the total population or the habitat area in the last 100 years of

- >60%
- 30-60%?

Has the range of the species been greatly reduced by direct or indirect human impacts? **Yes / No**

Distribution:

For terrestrial, freshwater, and coastal (<12 nautical miles offshore) marine species, please tick all DOC Conservancies in which you know the taxon **currently occurs**. For conservancy boundaries please refer to the map supplied with the covering letter. For colonial-nesting species which forage over large areas, include colony sites only.

- | | |
|---|---|
| <input type="checkbox"/> Northland | <input type="checkbox"/> Wellington |
| <input type="checkbox"/> Auckland | <input type="checkbox"/> Nelson/Marlborough |
| <input type="checkbox"/> Waikato | <input type="checkbox"/> West Coast |
| <input type="checkbox"/> Bay of Plenty | <input type="checkbox"/> Canterbury |
| <input type="checkbox"/> East Coast/Hawke's Bay | <input type="checkbox"/> Otago |
| <input type="checkbox"/> Tongariro/Taupo | <input type="checkbox"/> Southland |
| <input type="checkbox"/> Wanganui | |

For terrestrial, freshwater, and coastal (<12 nautical miles offshore) marine species, please tick all DOC Conservancies in which you know the taxon **formerly occurred, but is now locally extinct**. For conservancy boundaries please refer to the map supplied with the covering letter. For colonial-nesting species which forage over large areas, include colony sites only.

- | | |
|---|---|
| <input type="checkbox"/> Northland | <input type="checkbox"/> Wellington |
| <input type="checkbox"/> Auckland | <input type="checkbox"/> Nelson/Marlborough |
| <input type="checkbox"/> Waikato | <input type="checkbox"/> West Coast |
| <input type="checkbox"/> Bay of Plenty | <input type="checkbox"/> Canterbury |
| <input type="checkbox"/> East Coast/Hawke's Bay | <input type="checkbox"/> Otago |
| <input type="checkbox"/> Tongariro/Taupo | <input type="checkbox"/> Southland |
| <input type="checkbox"/> Wanganui | |

Appendix 3

NEW ZEALAND THREAT CLASSIFICATION SYSTEM EXPERT PANEL MEMBERSHIP

Rod Hitchmough and Leigh Bull were present at all meetings.

Algae

Wendy Nelson

Bats

Bat recovery group

Birds

Hilary Aikman
John Dowding
Ian Flux
Peter Gaze
Terry Greene
Colin Miskelly
Peter Moore
Ralph Powlesland
Graeme Taylor

Bryophytes

Jessica Beever
John Braggins
Patrick Brownsey
Allan Fife
David Glennie
Matt Renner

Freshwater fish

Richard Allibone
Sjaan Charteris
Bruno David
Tracie Dean
Nick Ling
Bob McDowall
Rosemary Miller
Peter Ravenscroft
Kim Young

Frogs

Frog recovery group

Fungi

Not reviewed in 2004/05

Marine fish

Clinton Duffy
Malcolm Francis

Marine invertebrates

Dennis Gordon
Bruce Marshall
Carl McGuinness

Marine mammals

Scott Baker
Simon Childerhouse
Louise Chilvers
Helen McConnell
Liz Slooten
Rob Suisted

Reptiles

Andrea Goodman
Benno Kappers
Leigh Marshall
Keri Neillson
Nic Peet
Tony Whitaker

Terrestrial and freshwater invertebrates

Gary Barker
Fred Brook
George Gibbs
Peter Johns
Carl McGuinness
Ian Millar
Brian Patrick
Lisa Sinclair
Phil Sirvid
Ian Stringer
Kath Walker
Gregor Yeates

Vascular plants

Shannel Courtney
Peter de Lange
Peter Heenan
Brian Molloy
David Norton
Colin Ogle
Brian Rance

Index

A

- Abra* sp., 73
Abrotanella
 muscosa, 88
 patearoa, 88
 rostrata, 88
 rosulata, 88
 spathulata, 88
Acaena
 buchananii, 52
 microphylla var. *pauciglochidiata*, 88
 minor, 88
 rorida, 35
 tesca, 88
Acanthisitta chloris
 chloris, 49
 granti, 49
Acanthodrilus kermadecensis, 103
Achnatherum petriei, 88
Acidoproctus gottwaldhirschi, 40
Aciphylla
 cartilaginea, 88
 congesta, 88
 crosby-smithii, 88
 dieffenbachii, 46
 dissecta, 88
 lecomtei, 88
 leighii, 88
 montana var. *gracilis*, 88
 multisecta, 60
 spedenti, 88
 squarrosa var. *flaccida*, 88
 stannensis, 88
 subflabellata, 60
 takabea, 88
 traillii, 88
 traversii, 42
 trifoliolata, 88
Ackama nubicola, 42
Acrobeloides ellesmerensis, 103
Acrochaete endostraca, 101
Acrochaetium
 leptonemioides, 101
 neozeelandicum, 101
Acroclita discariana, 57
Acromastigum
 aff. *tenax*, 99
 brachyphyllum, 28
 cunninghamii, 55
 marginatum, 55
 verticale, 28
Actinoleuca campbelli bountyensis, 70
Adelopetalum tuberculatum, 60
Agrostis
 (a), 133
 imbecilla, 60
 oresbia, 60
 subulata, 88
Abua
 dentata, 103
 insula, 76
 kaituna, 103
 vulgaris, 103
Akatorea
 gracilis, 103
 otagoensis, 103
Alaimus himatangiensis, 103
Alcithoe
 benthicola, 50
 davegibbsi, 70
 fissurata, 50
 flemingi, 50
 larochei, 50
 lutea, 50
Alcyonidium sp., 73
Alectryon excelsus subsp. *grandis*, 35
Alepis flavida, 52
Aletia cyanopetra, 32
Alistra
 centralis, 103
 inanga, 103
 mangareia, 103
 napua, 103
 opina, 103
 reinga, 103
 tuna, 104
Allanalcis sp. "Poor Knights", 82
Allisoniella
 recurva, 28
 scottii, 28
Allodiscus
 "aff. *planulatus*", 128
 "aff. *turbotti*", 128
 basilitratus, 76
 cassandra, 76
 "coarse axials" miranda group, 82
 cooperi, 76
 fallax, 40
 "flat extreme tullia group", 83
 "flat-ultrafine miranda group", 83
 godeti, 76
 "minute white", 128
 "Mount Peel", 128
 spiritus, 76
 turbotti, 76
 (*Allodiscus*?) (n. gen.), 86
 "Hokianga", 86
Alloecentrella sp. C, 67

Aloina bifrons, 65
Alsolemia cresswelli, 32
Alvania kermadecensis, 70
Alvinocaris
 longirostris, 70
 niwa, 70
Amaea sp., 73
Amarinus lacustris, 56
Amaurobioides
 major, 104
 maritimus, 104
 minor, 104
 pallidus, 104
 picunus, 104
 piscator, 104
 pletus, 104
 pobarus, 104
Amborhytida
 aff. *forsythi*, 52
 dunniae, 51
 duplicata, 51
 forsythi, 51
 pycrofti, 76
 sp. "Motukokako", 83
 tarangensis, 45
Amphibromus fluitans, 42
Amphinecta
 decemmaculata, 104
 dejecta, 104
 luta, 104
 mara, 104
 milina, 57
 mula, 104
 pika, 104
 pila, 104
 puka, 104
 tama, 104
 tula, 104
Amychus
 candzei, 76
 granulatus, 40
 sp., 83
Amygdalum sp., 73
Anabarhynchus
 albipennis, 104
 atratus, 104
 embersoni, 104
 flaviventris, 104
 fluviatilis, 104
 fuscufemoratus, 76
 budsoni, 104
 indistinctus, 104
 olivaceus, 104
 simplex, 104
 waitarerensis, 104
 wisei, 104
Anabathron sp. aff. *ovatus*, 73
Anagotus
 sp. "Moehau", 128
 sp. "Poor Knights", 83
 sp. "Three Kings", 83
 stephenensis, 40
 turbotti, 76
Anarhynchus frontalis, 45
Anas
 aucklandica, 64
 chlorotis
 "North Island", 38
 "South Island", 28
 nesiotis, 28
 superciliosa superciliosa, 38
Anastrophyllum papillosum, 28
Anaticola sp., 41
Anatoki gecko, 76
Anaua unica, 104
Ancistrobasis sp., 73
Andrews' beaked whale, 103
Andrewsianthus
 confusus, 99
 bodgsonae, 28
Anemanthele lessoniana, 60
Anemone tenuicaulis, 60
Aneura aff. *rodwayi*, 99
Anguilla dieffenbachii, 49
Anisotome
 acutifolia, 88
 antipoda, 88
 latifolia, 88
 lyallii, 88
Anisoura nicobarica, 57
Annulobalcis marshalli, 70
Anogramma leptophylla, 52
Anopsolobus subterraneus, 104
Anoteropsis
 alpina, 57
 arenivaga, 76
 arescens, 57
 blesti, 57
 cantauria, 76
 flavescens, 76
 forsteri, 76
 ballae, 104
 insularis, 76
 litoralis, 57
 montana, 57
 okatinae, 76
 ralphi, 76
 urqubarti, 76
 westlandica, 57
Anous tenuirostris minutus, 64
Antarctic prion, 49
Antarctic tern, 65
Anthornis
 melanocephala, 26

- Anthornis* (continued)
melanura
obscura, 64
onebo, 64
Antipathella fiordensis, 70
Antipathes
fruticosa, 102
n. sp., 73
Antipodes albatross, 64
Antipodes Island parakeet, 64
Antipodes Island snipe, 64
Antipodocottus
galathea, 69
megalops, 69
Antiponemertes allisonae, 32
Anzybas
carsei, 35
rotundifolius, 60
Aorangia
agama, 104
fiordensis, 104
isolata, 104
kapitiensis, 104
mauii, 104
musciola, 104
obscura, 104
otira, 104
pilgrimi, 104
poppelwelli, 104
pudica, 104
semita, 104
silvestris, 104
singularis, 104
tumida, 105
Aotearoa magna, 105
Aphis
coprosmae, 32
healyi, 40
nelsonensis, 105
sp. 1, 59
sp. 2, 128
Apium prostratum subsp.
denticulatum, 88
Aponomma sphenodonti, 76
Apopterygion oculus, 69
Aporcelaimellus taylori, 105
Apsona
muscaria, 57
sp. "Kapiti Island", 83
Apterygon
dumosum, 51
hintoni, 51
mirum, 47
okarito, 32
Apteryx
australis, 49
"Haast", 28
baastii, 49
mantelli, 47
owenii, 64
rowi, 28
Arachniodes aristata, 88
Arangina
cornigera, 105
pluva, 105
Archeophylla schusteri, 55
Archey's frog, 30
Archidium elatum, 39
Archiminolia
dawsoni, 70
burleyi, 70
tenuiseptum, 70
"Archiphrixgnathus" "hazelwoodi", 83
Archyala
culta, 32
lindsayi, 105
opulenta, 32
sp. "Mataroa", 128
sp. "Mount Greenland", 128
Arctestbes sp. "Von", 34
Argalista
sp. A, 73
sp. B, 73
Argyrodes
lepida, 105
triangulatus, 105
urqubartii, 105
Argyrotegium nitidulum, 88
Ariadna
barbigera, 77
bellatoria, 105
Arnoux's beaked whale, 102
Arthurdendylus albidus, 105
Artoria
hospita, 57
segrega, 77
separata, 77
Artystona
lata, 77
richmondiana, 105
Asaphodes
chlorocapna, 77
frivola, 40
imperfecta, 32
obarata, 32
stinaria, 40
Ascarina lucida var. *lanceolata*, 96
Ascaris apterycis, 105
Ascuta
australis, 77
cantuarina, 105
inopinata, 105
insula, 77
leith, 105
media, 105
monowai, 105

- Ascuta* (continued)
montana, 105
musca, 105
ornata, 105
parornata, 105
taupo, 105
tongariro, 105
univa, 105
Aseraggodes babamondei, 70
Asplenium
chathamense, 88
cimmeriorum, 60
pauperequitum, 42
scleroprium, 60
shuttleworthianum, 88
Astelia
aff. graminea, 96
aff. nervosa
(a), 96
(b), 96
chathamica, 42
nivcola var. *moriceae*, 88
Asteliaphasma naomi, 32
Asterinella intensa, 56
Asterophila sp., 73
Athoracophorid "Mt Hikurangi", 34
Athoracophorid n. gen. n. sp.
" Hikurangi", 83
Athoracophorus
sp. 3, 34
sp. 4 "northern NZ", 52
sp. 5, 83
sp. 7, 128
sp. 8, 83
sp. 9, 83
sp. 11 "Warawara 1", 83
Atriplex
billardierei, 88
buchananii, 60
hollowayi, 35
Attus
albibreviatus, 105
aquilis, 105
cookii, 105
monticulus, 105
montinus, 105
pullus, 105
scindus, 105
subfuscus, 105
tenebrosus, 105
valentulus, 105
Auckland green gecko, 50
Auckland Island banded dotterel, 64
Auckland Island merganser, 26
Auckland Island rail, 64
Auckland Island shag, 64
Auckland Island snipe, 64
Auckland Island teal, 64
Auckland Island tit, 65
Aubunga pectinata, 105
Aulopodidae, 70
"Aureopunctum" "aff. 1 turbotti", 83
Australasian bittern, 38
Australopyrum calcis
subsp. *calcis*, 42
subsp. *optatum*, 46
Australothbis volatilis, 32
Austridotea
annectens, 56
benbami, 67
Austrocidaria lithurga, 105
Austrofestuca littoralis, 52
Austrogaster novaezelandiae, 30
Austrogoniodes
strutheus, 40
vanalphenae, 45
Austrolejeunea hispidula, 55
Austroscyphus
nitidissimus, 28
phoenicorbhizus, 55
- ## B
- Baalzebub* sp., 128
Balaenoptera edeni/brydei, 32
Balanophyllia chnous, 70
banded dotterel, 49
banded rail, 55
Bangia spp., 101
Bartramia
alaris, 28
crassinervia, 65
Bascantis sirenica, 105
basking shark, 50
batfish, 70
Bathyfautor rapubia, 70
Bathymodiolus tangaroa, 50
Bathymophila valentia, 71
Bathyraja richardsoni, 101
Bathysquilla microps, 71
Baumea complanata, 88
Bazzania nova, 55
Bealeyia unicolor, 105
Bellomitra sp., 73
bellowsfish, 70
Bembrops morelandi, 70
Benthocardiella
obliquata bountiensis, 71
sp. A, 73
sp. B, 73
sp. C, 73
sp. D, 73
Berardius arnouxii, 102
Berggrenia cyclospora, 30
Bianor compactus, 105
Bidenichthys consobrinus, 56
Big Bay skink, 76

- bignose galaxias, 49
Bityla pallida, 32
 black-bellied storm petrel, 64
 black-billed gull, 47
 black-eyed gecko, 57
 black-fronted tern, 38
 black mudfish, 49
 black petrel, 65
 black pipefish, 102
 black robin, 28
 black shag, 55
 black stilt, 28
Blechnum norfolkianum, 60
Blennodon dorsale, 70
Blindia
 contecta, 65
 lewinskyae, 65
 seppeltii, 65
 blue duck, 38
 bluefinned butterfish, 70
 bluntnose weedfish, 101
Boccardia magniovata, 32
Boehmeria australis var. *dealbata*, 42
Botaurus poiciloptilus, 38
Botrychium
 aff. *lunaria*, 37
 australe, 60
 bottlenose dolphin, 75
 “offshore”, 103
Bountyia insularis, 77
 Bounty Island shag, 28
Bowdleria
 punctata
 caudata, 64
 punctata, 55
 stewartiana, 38
 vealeae, 55
 wilsoni, 64
 rufescens, 26
Brachaspis
 “Hunter Hills”, 83
 “lowland”, 41
 robustus, 40
Brachyglottis
 arborescens, 88
 bifistulosa, 88
 cockaynei, 133
 compacta, 89
 huntii, 42
 kirkii var. *kirkii*, 48
 myrianthos, 89
 pentacopa, 89
 perdicoides, 52
 rotundifolia var. *ambigua*, 133
 sciadopbila, 52
 stewartiae, 89
 turneri, 89
Brachyscome
 (a), 44
 aff. *humilis*, 96
 humilis, 89
 linearis, 89
 pinnata, 35
Brachyrbecium subpilosum, 65
Bragginsella anomala, 28
 bramble shark, 56
Brevianthus
 flavus, 39
 sp., 30
Brookula stibarochila, 71
 Brothers Island tuatara, 40
 brotula/mottled brotula, 56
Brounia thoracica, 105
 brown mudfish, 49
 brown skink, 57
 brown skua, 55
 brown teal, 38
Brueelia
 sp. (kokako), 41
 sp. (saddleback), 41
Brullea antarctica, 58
 Bryde’s whale, 32
Bryum
 algoviuicum var. *rutbeanum*, 65
 amblyodon, 65
 pallescens, 55
 tenuidens, 28
Bulbinella
 gibbsii var. *gibbsii*, 89
 modesta, 44
 rossii, 89
 talbotii, 89
 Buller’s shearwater, 65
Burmjapyx sp., 83
 bush falcon, 45
 bush wren, 26
Buxbaumia novae-zelandiae, 55
Bythograea sp., 73
- C**
- Cabalus modestus*, 26
Caecum solitarium, 71
Calappa sp. (?*australasiae*), 73
 “*Calcilaoma*”
 “*fordycei*”, 83
 “*Kaikoura*”, 83
 “*roscoei*”, 83
 “*Waipara*”, 83
 “*Calcimocella*”
 “aff. *jacki* 1”, 83
 “aff. *jacki* 2”, 83
 “*Martinborough limestones*”, 83
Callaeas cinerea
 cinerea, 26
 wilsoni, 38

- Calliergidium austro-stramineum*, 28
- Calliostoma*
- antipodense*, 71
 - benthicola*, 71
 - consobrinum*, 71
 - eminens*, 71
 - gendalli*, 71
 - gibbsorum*, 71
 - jamiesoni*, 71
 - peregrinum*, 71
 - sp., 74
 - turnerarum*, 50
 - xanthos*, 71
- Calliotropis*
- crystallophorus*, 71
 - sp. A, 74
 - sp. B, 74
- Callitriche*
- aucklandica*, 89
 - petriei* subsp. *chathamensis*, 89
- Calochilus*
- aff. *herbaceus*, 37
 - paludosus*, 60
 - robertsonii*, 60
- Calomnion brownseyi*, 55
- Calvetia osbeai*, 50
- Calyptogena* sp., 32
- Calystegia marginata*, 60
- Cambridgea*
- agrestis*, 105
 - annulata*, 77
 - australis*, 77
 - decorata*, 105
 - elegans*, 105
 - elongata*, 105
 - inaequalis*, 105
 - insulana*, 106
 - longipes*, 106
 - mercurialis*, 106
 - obscura*, 106
 - occidentalis*, 106
 - ordisbi*, 106
 - pallidula*, 106
 - peculiaris*, 106
 - peelensis*, 106
 - plagiata*, 106
 - quadromaculata*, 106
 - ramsayi*, 106
 - reinga*, 106
 - secunda*, 106
 - solanderensis*, 106
 - sylvatica*, 106
 - tuiiae*, 106
 - turbotti*, 106
- Campbell Island shag, 64
- Campbell Island snipe, 28
- Campbell Island teal, 28
- Campbell mollymawk/New Zealand
black-browed mollymawk, 65
- Canavalia rosea*, 89
- Cancellus laticoxa*, 50
- Canterbury gecko, 51
- Canterbury mudfish, 39
- Cantharellus elsae*, 30
- Cantharidus burchorum*, 71
- Cantrainea*
- sp. A, 74
 - sp. B, 74
 - sp. C, 74
- Caperea marginata*, 102
- caramel drummer, 70
- Carcharbinus galapagensis*, 70
- Carcharodon carcharias*, 50
- Cardamine*
- (a), 37
 - aff. *bilobata*, 133
 - (b), 44
 - bilobata*, 132
 - (c), 37
 - (d), 44
 - (e), 96
 - lacustris*, 89
- Carditella* sp., 74
- Carex*
- (a), 96
 - albula*, 89
 - allanii*, 132
 - astonii*, 52
 - (b), 96
 - berggrentii*, 60
 - capillacea*, 60
 - carsei*, 132
 - chathamica*, 60
 - cirrrosa*, 52
 - decurtata*, 89
 - devia*, 89
 - dolomitica*, 35
 - druceana*, 132
 - edgariae*, 60
 - elingamita*, 89
 - enysii*, 60
 - filamentosa*, 89
 - fretalis*, 89
 - impexa*, 89
 - inopinata*, 42
 - kermadecensis*, 89
 - kirkii* var. *elator*, 132
 - lachenalii* subsp. *parkeri*, 60
 - litorosa*, 48
 - muelleri*, 60
 - ophiolithica*, 89
 - pleiostachys*, 89
 - pterocarpa*, 89
 - raoulii*, 132

- Carex* (continued)
rubicunda, 89
taboata, 89
tenuiculmis, 60
trachycarpa, 89
traversii, 89
uncifolia, 89
ventosa, 89
- Carinastele*
coronata, 71
jugosa, 71
kristelleae, 71
- Carmichaelia*
appressa, 89
astonii, 89
carmichaeliae, 46
compacta, 89
crassicaule, 52
curta, 42
hollowayi, 35
juncea, 43
kirkii, 43
muritai, 35
stevensonii, 52
torulosa, 89
vexillata, 52
williamsii, 43
- Cascades forest gecko, 103
Caspian tern, 45
Cassafroneta forsteri, 58
Cassinia amoena, 89
Catapyrgus spelaeus, 67
Cateristis eustyla, 106
Catharacta antarctica lonnbergi, 55
Cathartocryptus maculosus, 58
- Caulerpa*
fastigiata, 101
racemosa, 69
sertularioides, 69
webbiana, 69
- Cavellia*
aff. tapirina, 83
delli, 77
“Kohaihai”, 34
“large tapirinopsis”, 83
“Mangarakau”, 83
“pseudanguicula”, 83
- Celaenia*
atkinsoni, 106
hectori, 106
olivacea, 106
penna, 106
tuberosa, 106
- Cellana*
craticulata, 71
flava, 50
strigilis
bollonsi, 71
- flemingi*, 71
oliveri, 71
- Celmisia*
adamsii
var. *adamsii*, 89
var. *rugulosa*, 89
aff. discolor, 133
aff. gracilentata (a), 133
aff. gracilentata (b), 37
aff. major, 96
clavata, 89
cockayneana, 89
cordatifolia
var. *brockettii*, 132
var. *cordatifolia*, 89
var. *similis*, 132
gibbsii, 89
glandulosa var. *latifolia*, 89
bookeri, 60
inaccessa, 89
insignis, 89
lindsayi, 89
mackauui, 90
macmabontii
var. *badfieldii*, 90
var. *macmabontii*, 35
major
var. *brevis*, 90
var. *major*, 52
markii, 90
morganii, 90
philocremna, 90
polyvena, 90
rigida, 90
rutlandii, 90
spectabilis subsp. *lanceolata*, 90
spedenii, 90
thomsonii, 90
- Cenchrus caliculatus*, 90
- Centipeda*
aotearoana, 132
minima subsp. *minima*, 35
- Centrolepis*
minima, 90
strigosa, 60
- Centrophorus harrisonii*, 101
Centrosyllium ?kamoharai, 102
Centrosynnus macracanthus, 101
- Cephalissa siria*, 40
Cephalocystis furcellata, 101
Cephalolobus squarrosus, 39
Cephalorhynchus hectori
hectori, 39
maui, 32
Cephaloscyllium sp. B, 102
- Cephalozia*
badia, 55
pachygyne, 99

<i>Cephaloziella</i>	sp. 69, 128
<i>aenigmatica</i> , 99	sp. 72, 128
<i>aff. pulcherrima</i> , 66	sp. 73, 83
<i>exigua</i> , 99	sp. 76, 128
<i>grandiretis</i> , 99	sp. 78, 128
<i>hispidissima</i> , 99	sp. 79, 83
<i>invisa</i> , 99	sp. 81, 128
<i>muelleriana</i> , 99	sp. 82, 128
<i>nothogena</i> , 99	sp. 83, 128
<i>pellucida</i> , 99	sp. 84, 128
<i>pseudocrassigyna</i> , 99	sp. 85, 128
<i>subspinosa</i> , 99	sp. 86, 128
<i>Ceratocephala pungens</i> , 36	sp. 88, 128
<i>Cerodolus</i>	sp. 90, 128
<i>curvellus</i> , 77	sp. 91, 83
<i>genialis</i> , 77	sp. 92, 83
<i>manepouricus</i> , 77	sp. 95, 128
<i>sinuatus</i> , 77	sp. 97, 83
<i>tuberculatus</i> , 106	sp. 98, 83
<i>Cetorbinus maximus</i> , 50	sp. 99, 83
<i>Chaetocorophium lucasi</i> , 56	sp. 100, 83
<i>Chaetophyllopsis whiteleggeti</i> , 39	sp. 101, 83
<i>Chalciporus aurantiacus</i> , 30	sp. 102, 128
<i>Chalinolobus tuberculata</i>	sp. 105, 83
(North Island), 45	sp. 109, 128
(South Island), 38	sp. 110, 128
<i>Champicolax</i> sp., 101	sp. 117, 128
<i>Charadrius</i>	sp. 118, 128
<i>bicinctus</i>	sp. 123, 84
<i>bicinctus</i> , 49	sp. 129, 128
<i>exilis</i> , 64	sp. 130, 84
<i>obscurus</i>	sp. 131, 128
<i>aquilonius</i> , 45	sp. 132, 84
<i>obscurus</i> , 28	sp. 135, 84
<i>Charopa</i>	sp. 136, 84
<i>macgillivrayana</i> , 106	sp. 139, 128
“pororari”, 83	sp. 140, 128
Charopidae	sp. 141, 128
sp. 2, 128	sp. 142, 128
sp. 5, 83	sp. 143, 129
sp. 10, 128	sp. 144, 129
sp. 15, 83	sp. 145, 129
sp. 18, 128	sp. 146, 129
sp. 21, 128	sp. 148, 129
sp. 23, 83	sp. 151, 129
sp. 24, 83	sp. 155, 129
sp. 26, 128	sp. 157, 84
sp. 27, 41	sp. 164, 34
sp. 28, 128	sp. 165, 41
sp. 33, 59	sp. 166, 42
sp. 35, 59	sp. 167, 84
sp. 46, 34	sp. 170, 84
sp. 49, 83	sp. 172, 129
sp. 50, 128	sp. 173, 84
sp. 51, 59	sp. 175, 129
sp. 53, 83	sp. 176, 129
sp. 58, 83	sp. 177, 84
sp. 68, 83	sp. 178, 129

- Charopidae (*continued*)
- sp. 180, 129
 - sp. 181, 129
 - sp. 182, 84
 - sp. 183, 129
 - sp. 184, 84
 - sp. 186, 129
 - sp. 188, 129
 - sp. 193, 84
 - sp. 194, 129
 - sp. 200, 129
 - sp. 203, 129
 - sp. 204, 84
 - sp. 205, 84
 - sp. 214, 84
 - sp. 217, 129
 - sp. 221, 84
 - Chatham Island bellbird, 26
 - Chatham Island fernbird, 26
 - Chatham Island fulmar prion, 65
 - Chatham Island mollymawk, 47
 - Chatham Island mudfish, 66
 - Chatham Island oystercatcher, 28
 - Chatham Island pigeon, 28
 - Chatham Island red-crowned kakariki, 64
 - Chatham Island shag, 38
 - Chatham Island snipe, 64
 - Chatham Islands skink, 76
 - Chatham Island tit, 38
 - Chatham Island tui, 38
 - Chatham Island warbler, 64
 - Chatham petrel, 38
 - Chatham rail, 26
 - Chatham's little blue penguin, 64
 - Chaureopa roscoei*, 32
 - Cheilolejeunea*
 - imbricata*, 99
 - tenella*, 29
 - Chenopodium*
 - detestans*, 132
 - pusillum*, 132
 - Chersadaula ochrogaster*, 32
 - Chersodromia zealandica*, 106
 - chevron skink, 40
 - Chiloscyphus*
 - beckettianus*, 99
 - erosus*, 99
 - battorii*, 99
 - tuberculatus*, 65
 - Chinamiris niculatus*, 106
 - Chionelasmus darwini*, 32
 - Chionochloa*
 - (a), 96
 - acicularis*, 90
 - antarctica*, 90
 - beddiei*, 90
 - bromoides*, 90
 - crassiuscula*
 - subsp. *crassiuscula*, 90
 - subsp. *directa*, 90
 - defracta*, 90
 - flavicans* f. *temata*, 90
 - juncea*, 90
 - lanea*, 90
 - ovata*, 90
 - rubra* subsp. *rubra* var. *inermis*, 90
 - spiralis*, 90
 - vireta*, 60
 - Chionohebe*
 - glabra*, 90
 - myosotoides*, 90
 - Cbiton themeropsis*, 71
 - Chlamydoselachus anguineus*, 56
 - Chlidophyllon kaspar*, 69
 - Chloranthelia berggrenii*, 55
 - Chlorophthalmidae—sp., 102
 - Chlorovibrisea*
 - bicolor*, 30
 - melanochlora*, 30
 - tasmanica*, 30
 - Chordariopsis capensis*, 69
 - Chorisodontium aciphyllum*, 39
 - Chorocaris* sp., 74
 - Christella*
 - aff. *dentata* (b), 54
 - dentata*, 36
 - Chrysiptera rapanui*, 70
 - Chrysopheplus*
 - expositus*, 58
 - triregius*, 77
 - Chrysopilus* sp. "Paparoa Range", 129
 - Chrysomenia? polydactyla*, 69
 - Circoxena ditrocha*, 58
 - Cirrbigaleus barbifer*, 56
 - Cirroctopus hochbergi*, 32
 - Cirsonella*
 - laxa*, 71
 - maoria*, 71
 - paradoxa*, 71
 - Clanculus atypicus*, 71
 - Clatbrosepta* sp., 74
 - Claustula fischeri*, 30
 - Clematis*
 - marmoraria*, 52
 - petriei*, 60
 - Clepsicosma* sp. "Titirangi", 129
 - Clianthus*
 - maximus*, 43
 - puniceus*, 36
 - Climocella*
 - manawatawbia*, 77
 - pukanui*, 33
 - reinga*, 77
 - sp. "Poor Knights", 84
 - clingfish, 70

- Clitarchus* sp. aff. *hookeri* “Poor Knights”, 84
cloudy gecko, 57
Clubiona
blesti, 106
chathamensis, 77
producta, 106
scatula, 106
torta, 106
Clynotis
barresi, 106
knoxi, 106
saxatilis, 106
Cobbonchus chauloidus, 106
Codfish Island fernbird, 64
Codfish Island South Georgian diving petrel, 28
Codium
geppiorum, 69
perrinae, 101
platyclados, 101
codlings, 102
Coelorinchus infuscus, 101
Coenocorypha
aucklandica
aucklandica, 64
barrierensis, 26
buegeli, 64
iredalei, 26
meinertzbagenae, 64
“Campbell”, 28
pusilla, 64
Coenocyathus brooki, 71
Colaranea
brunnea, 106
melanoviridis, 106
Colensoa physaloides, 52
Colobanthus
aff. *wallii*, 97
(b), 96
brevisepalus, 132
hookeri, 90
squarrosus
subsp. *drucei*, 90
subsp. *squarrosus*, 90
Coloceras harrisoni, 33
Cologrammus flavescens, 101
Cololejeunea
cardiocarpa, 29
ellipsoidea, 29
falcidentata, 29
pulchella var. *stylifera*, 29
sp. 1, 39
sp. 2, 99
Colpocephalum pilgrimi, 40
Colpoma nothofagi, 31
Cominella
quoyana griseicalx, 71
regalis, 71
Conchocele sp., 74
Condylocuna
sp. A, 74
sp. B, 74
sp. C, 74
sp. D, 74
Confuga persephone, 77
Convolvulus
fracto-saxosa, 60
verecundus, 60
Cook’s petrel, 49
Cook Strait striped gecko, 76
Cook Strait tuatara, 76
Coprosma
aff. *acerosa*, 97
aff. *neglecta*, 97
distantia, 90
intertexta, 61
neglecta, 90
obconica, 52
pedicellata, 52
spathulata subsp. *bikuruana*, 36
talbrockiei, 90
waima, 43
wallii, 52
Coralliophila sp., 74
Corallospartium crassicaule var. *racemosum*, 132
Corculum inexpectatum, 71
Cordierites acanthophora, 31
Cordyline kaspar, 90
Coriaria
(a), 63
pottsiana, 90
Coridomorpha
“long palpi”, 129
stella, 33
Cornisepta festiva, 71
Corokia macrocarpa, 90
Coromandel striped gecko, 32
Cortaderia turbaria, 36
Corunastylis
nuda, 61
pumila, 61
? *Cosmocampus* sp., 102
Cosmophasis archeyi, 106
Costachorema
notopterum, 67
peninsulae, 67
Coturnix novaezelandiae, 26
Cranopsis sp., 74
Craspedia
(a), 37
aff. *minor*, 97
(b), 37
(c), 97
(d), 97
(e), 44
(f), 97

- Craspedia* (continued)
- (g), 97
 - (h), 97
 - (i), 37
 - (j), 37
 - (k), 97
 - (l), 97
 - (n), 54
 - (o), 97
 - (p), 97
 - (q), 97
 - (r), 97
 - robusta* var. *pedicellata*, 90
 - (s), 97
 - (t), 97
- Crassula*
- helmsii*, 61
 - hunua*, 36
 - kirkii*, 52
 - manaia*, 52
 - mataikona*, 132
 - multicaulis*, 61
 - peduncularis*, 43
 - ruamahanga*, 61
- Craterithea novaezealandiae*, 71
- Cratoneuron filicinum*, 55
- crested grebe, 38
- Crisius* sp. "Poor Knights", 84
- crocodile shark, 102
- Crosbya nervosa*, 65
- Crosseola*
- favosa*, 71
 - intertexta*, 71
- Crossidium*
- davidai*, 29
 - gebeebii*, 29
- Cryophlebia aucklandensis*, 67
- Cryphodera*
- coxi*, 106
 - nothofagi*, 106
- Cryptaranea*
- stewartensis*, 106
 - subalpina*, 106
- cryptic skink, 51
- Cryptobiosella*
- furcata*, 67
 - spinosa*, 67
- Cryptodacne* sp. "Chathams", 34
- Cryptops* n. sp., 129
- Cryptostipula inundata*, 99
- Ctenarchis cramboides*, 58
- Cucumerunio websteri*
- delli*, 100
 - websteri*, 100
- Cupola Basin gecko, 103
- Curdiea balthazar*, 69
- Cutleria mollis*, 101
- Cyamiomacra*
- sp. A, 74
 - sp. B, 74
- Cyanoramphus*
- auriceps*, 49
 - erythrotis hochstetteri*, 64
 - forbesi*, 38
 - malberbi*, 28
 - novaezealandiae*
 - chathamensis*, 64
 - cyanurus*, 64
 - unicolor*, 64
- Cyathea*
- kermadecensis*, 90
 - milnei*, 90
- Cycloclamys*
- sp. A, 74
 - sp. B, 74
- Cycloctenus*
- agilis*, 106
 - centralis*, 58
 - duplex*, 106
 - fiordensis*, 107
 - fugax*, 107
 - lepidus*, 107
 - nelsonensis*, 107
 - paturau*, 107
 - pulcher*, 107
- Cyclodictyon blumeanum*, 29
- Cyclodina*
- alani*, 76
 - macgregori*, 76
 - "Mokohinau Island", 76
 - oliveri*, 76
 - ornata*, 50
 - "Poor Knights", 76
 - whitakeri*, 45
- Cyclopecten*
- kermadecensis*, 71
 - sp. A, 74
 - sp. B, 74
- Cyclosorus interruptus*, 52
- Cymbachina albobrunnea*, 107
- Cyparium*
- sp. "Fiordland", 129
 - sp. "Mangamuka", 129
- Cyrnea* (*Cyrnea*) *apterycis*, 107
- Cytora*
- ampla*, 77
 - annectens*, 77
 - filicosta*, 77
 - hirsutissima*, 33
 - bispida*, 77
 - kerrana*, 77
 - solitaria*, 77
 - sp. 4, 84
 - sp. 9, 84
 - sp. 11, 34
 - sp. 12, 84
 - sp. 13, 84
 - sp. 14, 42
 - sp. 16, 84
 - tepakiensis*, 77

D

- Dactylanthus taylorii*, 48
Damnomenia vernicosa, 90
Damonita geminoropiformis, 77
Danilia sp., 74
Daption capense australe, 64
Dasyuris enysii, 58
Daucus glochidiatus, 48
Davallia tasmanii subsp. *cristata*, 36
Deania quadrispinosum, 101
Decachaetus
 minor, 107
 violaceus, 107
Declana sp. “grey toreuta”, 42
deepsea skate, 102
Deinacrida
 carinata, 40
 elegans, 58
 fallai, 77
 beteracantha, 40
 maboenui, 40
 parva, 51
 rugosa, 77
 talpa, 77
 tibiospina, 58
Deinodrillus
 agilis, 107
 benbami, 107
 gracilis, 107
 lateralis, 107
 parvus, 107
 suteri, 107
Deleatidium (*Penniketellum*)
 cornutum, 67
 insolitum, 100
Deleatidium magnum, 100
Delectopecten sp., 74
“Dellopsis”
 “peninsularis”, 84
 sp., 84
Delos
 regia, 77
 sp. 1, 34
 sp. 2, 84
 sp. 12, 84
 sp. 13, 34
 striata, 77
Delouagapia
 cordelia, 58
 tasmani, 33
Dendroplectron aucklandensis, 77
dense-beaked whale, 103
Deschampsia
 cespitosa, 52
 pusilla, 132
Desmoschoenus spiralis, 52
Deyeuxia
 aff. *quadriseta*, 97
 lacustris, 91
 youngii, 61
Diaea
 albolimbata, 107
 ambara, 107
 sphaeroides, 107
Dianella aff. *nigra*
 (a), 97
 (b), 63
Diaporthe
 sp. 1, 50
 sp. 2, 50
Dichelachne lautumia, 91
Dichomitus newbookii, 31
Dichotomaria marginata, 69
Dichromodes “Cloudy Bay”, 42
Dicranella temperata, 99
Dicranopteris linearis, 91
Dicranoweisia spenceri, 29
Dictyna urqubarti, 107
Didymodon calycinus, 29
Dieffenbach’s rail, 26
Diodora bollonsi, 71
Diomedia
 antipodensis, 64
 epomophora, 64
 gibsoni, 64
 sanfordi, 45
Dione arcuata, 31
Diploplecta
 adjacens, 107
 duplex, 107
 nuda, 107
 opaca, 107
 proxima, 107
 simplex, 107
Diporochoeta
 aquatica, 107
 brachysoma, 107
 caswelli, 107
 chathamensis, 107
 duodecimalis, 107
 heterochaeta, 107
 intermedia, 107
 minima, 107
 obtusa, 107
 punctata, 107
Discocharopa
 “barrierensis”, 84
 “biconcava”, 84
Discotectonica acutissima, 71
Disphyma
 australe subsp. *stricticaule*, 91
 papillatum, 91

- Ditrichum*
brachycarpum, 29
rufo-aureum, 29
Dodonidia helmsii, 47
Dolomedes schauinslandi, 40
Doodia
milnei, 91
mollis, 61
squarrosa, 52
“Dorilaoma” “elevata”, 84
Dracophyllum
arboreum, 91
densum, 91
longifolium var. *septentrionale*, 46
marmoricola, 91
Mt Rochfort, 133
opbioticum, 91
patens, 91
trimorphum, 91
uniflorum var. *frondosum*, 91
urvilleanum, 46
dragonette, 70
Drapetisca australis, 107
Drepanolejeunea
aff. *pentadactyla*, 99
aff. *ternatensis*, 100
vesciculosa subsp. *euvesciculosa*, 65
Drosera pygmaea, 52
Drucella integristipula, 55
Drymoanthus flavus, 48
Dryolimnas muelleri, 64
Dugdalea oculata, 107
Dumortiera hirsuta, 29
Dunedinia
decolor, 107
pullata, 107
dune lakes galaxias, 45
Dunstanina
angustiae, 107
hesperis, 107
binawa, 107
hova, 107
kochi, 107
mira, 107
montana, 107
nuntia, 108
salmoni, 108
Duripelta
alta, 108
australis, 108
egmont, 108
bunua, 108
koomaa, 108
mawbero, 108
minuta, 108
monowai, 108
otara, 108
pallida, 108
paringa, 108
peba, 108
scuta, 108
totara, 108
townsendi, 108
watti, 108
Durvillaea
cbathamensis, 69
sp.—Antipodes, 69
dusky galaxias, 49
dusky rattail, 101
Duvaucel’s gecko, 57
dwarf galaxias, 49
dwarf inanga, 47
- ## E
- eastern central short-tailed bat, 64
eastern falcon, 49
eastern rockhopper penguin, 38
Eatoniella (E.) iredalei, 71
Echinorbinus
brucus, 56
cookei, 56
Echinuria australis, 108
Echiodon
neotes, 70
pegasus, 70
pukaki, 70
Ecnomina zealandica, 56
Ectinorbynchus furcatus, 108
Ectopsis sp. “Poor Knights”, 84
Ectropochectum sandwichense, 65
Edpercivalia
banksiensis, 39
dugdalei, 67
sp. G, 101
Egestula
bicolor, 77
“broomfieldi”, 34
gaza, 77
microgaza, 77
pandora, 77
egg-laying skink, 76
Egretta
alba modesta, 28
sacra sacra, 45
Elachista
eurychora, 33
belonoma, 108
melanura, 108
Elamena momona, 57
Eldon’s galaxias, 45
Eleocharis neozelandica, 52
Elingamita johnsonii, 91
“Ellettia” “aucklandensis”, 27
“Elsothera”
“minuta”, 84
sp., 84

Elymus
 aff. solandri
 (a), 133
 (b), 133
 apricus, 91
 falcis, 91
 sacandros, 91
 tenuis, 132
Embergeria grandifolia, 43
Empicoris
 aculeatus, 108
 angulipennis, 108
 seorsus, 58
Enallopsammia maranzelleri, 47
Encalypta rbaptocarpa, 55
Engyprosopon raoulensis, 70
Enneapterygius kermadecensis, 70
 “*Enodiapicis*” “*australis*”, 84
Entocladia spp., 101
Entosthodon muehlenbergii, 65
Eodrilus
 annectens, 108
 fallax, 108
 haplocystis, 108
 micros, 108
 montanus, 108
 pallidus, 108
 paludosus, 108
 parvus, 108
 rossi, 108
Eoisotachis nigella, 99
Eosipho sp., 74
Epacris sinclairii, 43
Epichorista lindsayi, 108
Epicladia testarum, 101
Epigonichthys hectori, 56
Epilobium
 aff. glabellum, 97
 astonii, 91
 brevipes, 91
 chionanthum, 52
 confertifolium, 91
 forbesii, 91
 hirtigerum, 132
 margaretiae, 91
 petraeum, 61
 pictum, 132
 purpuratum, 61
 vernicosum, 132
 wilsonii, 91
Epipterygium opararensense, 29
Episinus
 antipodanus, 108
 similanus, 108
 similitudus, 108
Erechthias lychnopa, 33
 erect-crested penguin, 38
Ericodesma
 aerodana, 40
 cuneata, 58
 sp. “*mingimingi*”, 129
Eriophora
 decorosa, 58
 heroine, 58
Erpodium glaucum, 29
Errina novaezealandica, 57
Eryciniolia purpurapunctata, 108
Eryngium aff. vesiculosum, 52
Erythrotrichia
 bangioides, 101
 bunterae, 101
Etmopterus pusillus, 56
Etrema bedleyi, 71
Eubalaena australis, 39
Euchiton
 ensifer, 61
 paludosus, 61
 polylepis, 132
Euconnus
 microciliipes, 108
 paraciliipes, 108
Eudinodriloides forsteri, 108
Eudonia
 linealis, 129
 ustiramis, 108
Eudynamys taitensis, 49
Eudyptes
 chrysocome filholi, 38
 pachyrhynchus, 38
 robustus, 64
 sclateri, 38
Eudyptula minor
 albosignata, 45
 chathamensis, 64
 iredalei, 49
 minor, 49
Euphorbia glauca, 48
Euphrasia
 (a), 37
 drucei, 91
 integrifolia, 132
 repens, 91
 wettsteiniana, 91
Eurygonias hyalacanthus, 57
Euschizaphis sp., 59
Euxoa cerapachodes, 33
Eviota sp., 70
Ewartiothamnus sinclairii, 91
Exadelium rufilabrum, 108
Exomesites sp. “*Poor Knights*”, 84

F

Falcatoflabellum raoulensis, 71
Falco novaeseelandiae
“bush”, 45
“eastern”, 49
“southern”, 38
false cat shark, 102
fangtooth hoki/bluebelly, 102
Fanulum expositum, 108
Fautrix candida, 71
Fectola melchior, 33
Festuca
aff. *novae-zelandiae*, 37
coxii, 91
luciarum, 91
matthewsii subsp. *pisamontis*, 91
ultramafica, 91
Fictonoba oliveri, 71
Fimbristylis velata, 61
Fiordichthys slartibartfarsti, 70
Fiordland brotula, 70
Fiordland crested penguin, 38
Fiordland skink, 76
Fissidens
berteroi, 39
integerrimus, 39
oblongifolius var. *oblongifolius*, 99
strictus, 39
Fissurellidae sp., 74
Fissurisepta
manawatawhia, 71
sp., 74
Flammocharopa
“giant pilsbryi”, 84
montana, 77
Flammoconcha
“aff. marstoni”, 84
cumberi, 33
“marstoni”, 34
stewartensis, 77
Flammulina
“aff. lateaperta”, 84
“Akatarawa”, 59
“constanceae/fereday”, 129
lateaperta, 77
tepakensis, 40
flathead, 70
flathead galaxias, 49
flesh-footed shearwater, 49
Foetorepus sp., 70
Forbes' parakeet, 38
Forficuloecus
meinertzhageni, 40
pilgrimi, 40
Forsterella faceta, 108
Forstertyna marplei, 108
fourspine boxfish, 102
fragile dogfish, 102

Fregetta

grallaria grallaria, 64
tropica, 64
frill shark, 56
Frullania
“coastal”, 66
“Radar Bush”, 30
rostrata var. “draco”, 100
Fuchsia procumbens, 61
fulmar prion, 64
Fuscapex opbioacanthicola, 72
Fusceulima goodingi, 72

G

Gadira

“black brown EGW”, 129
petraula, 58
Galapagos shark, 70
Galaxaura
cobaerens, 69
filamentosa, 69
rugosa, 69
Galaxias
anomalous, 49
argenteus, 49
cobitinis, 30
depressiceps, 49
divergens, 49
eldoni, 45
gollumoides, 49
gracilis, 47
macronasus, 49
“Northern sp.”, 67
postvectis, 56
prognathus, 49
pullus, 49
“Southern sp.”, 49
sp., 45
sp. D, 49
sp. E., 100
“Teviot”, 45
“Von sp.”, 100

Galium aff. *perpusillum*, 133

Gallirallus

australis
australis, 47
greyi, 38
scotti, 38
dieffenbachii, 26
philippensis assimilis, 55
Ganoderma sp. “Awaroa”, 31
Ganonema farinosa, 69
Garrodia nereis, 64
Gasparia
busa, 108
coriacea, 109
delli, 109
dentata, 109

- Gasparia* (continued)
edwardsi, 109
kaiangaroa, 109
littoralis, 109
lomasi, 109
mangamuka, 109
manneringi, 77
montana, 109
nava, 109
nebulosa, 109
nelsonensis, 109
nuntia, 109
oparara, 109
parva, 109
pluta, 109
rupicola, 109
rustica, 109
tepakia, 109
tuaiensis, 109
- Gastrocymba quadriradiata*, 70
- Gastrosaurus* sp. "Poor Knights", 84
- "*Gelidium*" *ceramoides*, 69
- Gelidium*
allanii, 69
longipes, 69
- Geniostoma ligustrifolium*
var. *crassum*, 91
var. *maius*, 91
- Gentiana*
(a), 97
aff. *astonii*
(a), 37
(b), 37
(c), 97
(d), 97
(e), 37
(f), 97
aff. *saxosa*, 37
aff. *tenuifolia*, 97
antarctica, 91
antipoda, 91
astonii, 91
bellidifolia var. *magnifica*, 91
cerina, 91
chathamica, 91
concinna, 91
filipes, 91
gibbsii, 91
lilliputiana, 91
lineata, 61
- Geodorcus*
auriculatus, 58
itbaginis, 33
sp. "Moehau", 84
sp. "Sisters", 34
- Geotria australis*, 56
- Geranium*
(a), 97
(b), 97
(c), 133
microphyllum, 132
traversii, 91
- Gerygone albofrontata*, 64
- Geum*
albiflorum, 132
divergens, 91
- giant black ghostshark, 102
- giant kokopu, 49
- giant spiny dogfish, 102
- giant triplefin, 70
- Gibson's albatross, 64
- Gigantidas gladius*, 72
- Gigartina*
dilatata, 69
grandifida, 69
sp. Bounty Is., 69
sp. Three Kings, 69
- Gigaspermum repens*, 66
- Gingidia*
aff. *montana*
(a), 44
(b), 97
enysii, 92
flabellata, 92
trifoliolata, 61
- Gingidiobora*
nebulosa, 51
subobscurata
species complex, 52
species complex "eastern Otago",
42
- Giraudyopsis stellifera*, 101
- Girella fimbriata*, 70
- Globodera zealandica*, 109
- Glontium* sp., 50
- Glyphipterix euastera*, 58
- Gnaphalium luteoalbum* var.
compactum, 61
- Gobiesocidae, 70
- Gobiomorphus*
alpinus, 66
sp. aff. *basalis*, 100
- goblin shark, 57
- goby, 70
- Goebelobryum*
aff. *unguiculatum*, 56
unguiculatum, 39
- Gobia*
clarki, 77
falxiata, 77
isolata, 109
parisolata, 109

- goldstripe gecko, 50
Gollum galaxias, 49
Gomphus
dingleyae, 31
novaezealandiae, 31
Gonaxia sp., 74
Goniomitrium acuminatum, 29
goose-beaked whale, 103
Gorgonocephalus dolichodactylus, 50
Goyenia
electa, 109
fresa, 109
gratiosa, 109
lucrosa, 109
marplei, 109
multidentata, 109
ornata, 109
sana, 109
scitula, 109
sylvatica, 109
Gracillariidae n. sp. “teucridium”, 34
Grammitis
aff. *rawlingsii*
(a), 133
(b), 133
gunnii, 132
rawlingsii, 61
rigida, 61
Granata sp., 74
grand skink, 32
Graphania
cf. *tetrachroa* “olearia”, 42
omicron, 109
Graphis sculpturata, 72
Gratiola nana, 53
Gray’s beaked whale, 103
grayling, 26
greater short-tailed bat, 99
great spotted kiwi, 49
great white shark/white pointer, 50
green-eyes, 102
greeneye spiny dogfish, 102
green skink, 51
“West Otago”, 51
grey-backed storm petrel, 64
grey-headed mollymawk, 38
grey duck, 38
grey petrel, 49
grey ternlet, 65
Grey Valley skink, 76
Grimmia
affinis, 66
longirostris, 66
plagiopoda, 29
Grippina acherontis, 72
Gunnera
arenaria, 53
densiflora, 132
bamiltonii, 36
gurnard, 70
Gygis alba royana, 28
“*Gymnobathra*” *rufopunctella*, 109
Gymnobathra
ambigua, 109
origenes, 109
Gymnomitrium strictum var.
inequalis, 99
Gymnoplectron giganteum, 77
Gynoplistia
ambulator, 109
“Arthurs”, 129
beimalis, 109
troglophila, 58
Gyroporus castaneus, 31
- ## H
- Haasiella* sp., 129
Haastia
pulvinaris var. *minor*, 92
recurva var. *wallii*, 92
Haast tokoeka, 28
Hadopyrgus
anops, 67
brevis, 67
Hadracalles fuliginosus, 77
Hadramphus
pittospori, 77
spinipennis, 45
stilbocarpae, 78
tuberculatus, 40
Haematopus chatbamensis, 28
Halieutaea maoria, 56
Halieutea spp., 70
Halimena aotearoa, 57
Halocarpus kirkii, 61
Haloceras
sp. 1, 74
sp. 2, 74
sp. 3, 74
Haloragis erecta subsp. *cartilaginea*,
92
Halteriphorus mirabilis, 109
Hamacuna
sp. A, 74
sp. B, 74
Hamilton’s frog, 30
Hampeella pallens, 29
Hanea paturau, 33
Haplinis
alticola, 109
anomala, 109
antipodiana, 78
attenuata, 58
banksi, 78
brevipes, 109
chiltoni, 78
contorta, 109

- Haplinis* (continued)
- dunstani*, 109
 - exigua*, 109
 - fluviatilis*, 109
 - fucatinia*, 58
 - fulvolineata*, 110
 - borningi*, 78
 - innotabilis*, 110
 - insignis*, 110
 - major*, 58
 - marplei*, 110
 - minutissima*, 78
 - morainicola*, 110
 - mundenia*, 110
 - paradoxa*, 110
 - redacta*, 78
 - rufocephalia*, 78
 - rupicola*, 58
 - silvicola*, 110
 - similis*, 110
 - subclathrata*, 110
 - subtilis*, 58
 - taranakii*, 110
 - tegulata*, 78
 - titan*, 110
 - tokaanuae*, 110
 - wairarapa*, 78
- Haplomitrium*
- minutum*, 99
 - ovalifolium*, 55
- Hapona*
- amira*, 110
 - aucklandensis*, 110
 - crypta*, 110
 - insula*, 110
 - marplei*, 110
 - moana*, 110
 - momona*, 110
 - musvicola*, 110
 - otagoa*, 110
 - paibia*, 110
 - reinga*, 110
 - salmoni*, 110
 - tararua*, 110
- harlequin gecko, 50
- Harpalejeunea filicuspis*, 66
- Harrison's dogfish, 101
- Hartmanonuphis pectinata*, 102
- Hatterianema bollandei*, 78
- "Haurakora" "aff. corrugata", 59
- Haurokoa filicicola*, 110
- Hebe*
- acutiflora*, 92
 - adamssii*, 92
 - aff. *albicans*, 44
 - aff. *bishopiana*, 37
 - aff. *brevifolia*, 133
 - aff. *diosmifolia*, 63
 - aff. *ligustrifolia*, 97
 - aff. *pinguifolia*, 97
 - aff. *treadwellii*, 133
- amplexicaulis*
- f. *amplexicaulis*, 92
 - f. *birta*, 92
- annulata*, 61
- arganthera*, 92
- armstrongii*, 43
- barkeri*, 46
- benthamii*, 92
- biggarii*, 92
- bishopiana*, 46
- brevifolia*, 92
- breviracemosa*, 36
- calcicola*, 92
- carnosula*, 92
- chathamica*, 92
- cupressoides*, 46
- dieffenbachii*, 92
- dilatata*, 61
- elliptica* var. *crassifolia*, 92
- evenosa*, 92
- gibbsii*, 92
- insularis*, 92
- macrocalyx* var. *macrocalyx*, 92
- matthewsii*, 132
- obtusata*, 92
- ochracea*, 92
- pareora*, 92
- pauciflora*, 92
- perbella*, 46
- pimeleoides* subsp. *faucicola*, 53
- pubescens*
- subsp. *rebruarum*, 97
 - subsp. *sejuncta*, 97
- ramosissima*, 92
- rigidula*
- var. *rigidula*, 92
 - var. *sulcata*, 92
- salicornioides*, 43
- scopulorum*, 46
- societatis*, 36
- sp. (*Veronica salicifolia* var. *angustissima*), 97
- speciosa*, 43
- stenophylla*
- var. *hesperia*, 92
 - var. *oliveri*, 92
- tairawhiti*, 61
- townsonii*, 92
- tumida*, 92
- urvilleana*, 92
- Hector's beaked whale, 103
- Hector's dolphin, 39
- Hedruris minuta*, 110

- Helastia*
angusta, 78
clandestina, 78
expolita, 78
sisis, 78
- Helichrysum*
aff. aggregatum, 97
aff. intermedium, 97
dimorphum, 43
plumeum, 92
selago var. *tumidum*, 92
- Helicopsyche*
cuvieri, 100
haurapango, 100
torino, 67
- Helicotylenchus depressus*, 110
- Heliobebe*
acuta, 48
lavaudiana, 48
raoulii subsp. *maccaskillii*, 43
- Heloxycanus patricki*, 51
- Helpis minitabunda*, 110
- Helsonia plata*, 110
- Hemiandrus*
bilobatus, 78
“Cape Campbell”, 34
“Cromwell”, 84
“disparalis”, 84
“Dodsons”, 129
“evansae”, 84
“furoviarius”, 84
“Hapuku”, 129
“Horomaka”, 84
“Kapiti”, 84
lanceolatus, 110
“Longwood Range”, 129
“Moehau”, 85
“Mt George”, 129
“Nokomai”, 129
“Okiwi”, 85
“Onokis”, 85
“Otekauri”, 85
“Porters”, 85
“Pureora 1”, 129
“Pureora 2”, 129
“Redhills”, 129
“Richmond”, 129
“Rocklands”, 129
“saxatilis”, 85
“Staveley”, 129
subantarcticus, 78
“Tapuaenuku”, 129
“Timaru”, 129
“vicinus”, 85
“Waimakariri”, 130
- Hemideina*
ricta, 78
- thoracica*
2n=11,12, 85
2n=23,24, 52
trewicki, 58
“Hemipecten” sp., 74
- Hemiphaga*
cbathamensis, 28
novaeeseelandiae, 49
- Heptranchias perlo*, 56
- Herpetopoma*
pruinosa, 72
sp., 74
- Herzobryum atrocapillum*, 29
- Herzogianthus sanguineus*, 66
- Herzogobryum*
filiforme, 29
vermiculare, 29
- Heterakis gracilicauda*, 110
- Heteralocha acutirostris*, 26
- Heterexis seticostatus*, 78
- Heterocrossa maculata*, 33
- Heterodera aucklandica*, 110
- Heteromenopon (Keamenopon) kea*,
40
- Hexanchus griseus*, 56
- Hexaplex puniceus*, 72
- Hexathele*
cantuaria, 110
cavernicola, 110
exemplar, 110
buka, 110
buttoni, 110
maitata, 110
nigra, 110
otira, 110
para, 110
pukea, 110
putuna, 110
ramsayi, 110
rupicola, 110
taumara, 111
waitpa, 111
waita, 111
wiltoni, 111
- Hibiscus*
aff. trionum, 44
diversifolius, 46
- Hierochloa*
brunonis, 92
fusca, 61
- Hierodoris*
“clear wing”, 130
“silver banded”, 130
“tiger stripes RJBH”, 130
- hihi, 38
- Himantopus novaezealandiae*, 28
- Hinewaia embolica*, 111

- Hirudobdella antipodum*, 33
Hochstetter's frog, 56
Hoberia
 aff. sexstylosa, 54
 equitum, 92
Holcaspis
 abditata, 33
 bathana, 78
 bidentella, 33
 brevicula, 33
 falcis, 58
 n. sp., 34
Holomamoeba foveata, 111
Holoplatys appressus, 111
Homalanthus polyandrus, 92
Homoeosoma ischnomorpha, 111
Hoplochaetina
 durvilleana, 111
 pallida, 111
 polycystis, 111
 robusta, 111
 rossii, 111
 rubra, 111
 spirilla, 111
 subtilis, 111
Hoplodactylus
 "Anatoki", 76
 "Canterbury", 51
 "Cascades", 103
 chrysoireticus, 50
 cryptozoicus, 103
 "Cupola", 103
 delcourtii, 26
 duvaucelii, 57
 kabutarae, 57
 "Kaikouras", 76
 "Matapia Island", 51
 "Mokohinau gecko", 76
 "Mount Arthur", 76
 nebulosus, 57
 "North Cape Pacific gecko", 57
 "Okarito forest gecko", 103
 "Otago large", 51
 pacificus, 50
 "Poer Knights gecko", 76
 rakiurae, 50
 "Roys Peak", 103
 "Southern forest gecko", 51
 "southern mini", 76
 sp. "Open Bay Islands gecko", 32
 stephensi
 Cook Strait populations, 76
 Coromandel populations, 32
 "Three Kings gecko", 76
Horatia nelsonensis, 67
Huara
 antarctica, 78
 chapmanae, 111
 decorata, 111
 dolosa, 111
 grossa, 78
 bastata, 111
 inflata, 111
 kikkawa, 111
 marplei, 111
 mura, 111
 ovalis, 78
 pudica, 111
huia, 26
Huka
 alba, 111
 lobata, 111
 minima, 111
 minuta, 111
Hulua
 convoluta, 111
 manga, 111
 minima, 111
 pana, 111
Hunkydora rakiura, 72
"Huonodon/Mitodon" (n. gen.), 86
Hutton's shearwater, 38
Huttonia palpimanoides, 78
Huttoniidae, 128
"Hyalaooma" sp. "globosa group", 85
"Hyalolaooma"
 "elevata", 85
 "globosa", 85
 "Kaukapakapa", 130
 "Maungatapere", 130
Hyalolepidozia "microphylla", 100
Hydatella inconspicua, 48
Hydriomena
 canescens, 51
 clarkei, 51
 iolanthe, 130
Hydrobiidae
 sp. 1, 67
 sp. 2, 68
 sp. 3, 68
 sp. 4, 68
 sp. 6, 68
 sp. 7, 68
 sp. 8, 68
 sp. 9, 68
 sp. 10, 68
 sp. 11, 68
 sp. 12, 68
 sp. 13, 68
 sp. 14, 68
 sp. 15, 68
 sp. 16, 68
 sp. 17, 68
 sp. 18, 68
 sp. 19, 68
 sp. 20, 68

- Hydrobiidae (*continued*)
- sp. 21, 68
 - sp. 22, 68
 - sp. 23, 68
 - sp. 24, 68
 - sp. 25, 68
 - sp. 26, 68
 - sp. 27, 68
 - sp. 28, 68
 - sp. 29, 68
 - sp. 30, 68
 - sp. 31, 68
 - sp. 32, 68
 - sp. 33, 68
 - sp. 34, 68
 - sp. 35, 68
 - sp. 36, 68
 - sp. 37, 68
 - sp. 38, 68
 - sp. 39, 68
 - sp. 40, 68
 - sp. 41, 68
 - sp. 42, 68
 - sp. 43, 68
 - sp. 44, 68
 - sp. 45, 68
 - sp. 46, 68
- Hydrobiosella aorere*, 67
- Hydrobosis*
- lindsayi*, 67
 - styx*, 39
 - taumata*, 67
- Hydrochorema lyfordi*, 100
- Hydrolagus* sp. D, 102
- Hygrolembidium triquetrum*, 66
- Hylaeus*
- "murihiku", 130
 - sp. "Fiordland yellow-faced bee", 130
- Hylocomium splendens*, 55
- Hymenochilus*
- tanypodus*, 61
 - tristis*, 61
- Hymenolaimus malachorhynchus*, 38
- Hymenophyllum*
- aff. *flexuosum*, 63
 - atrovirens*, 61
- Hymenostylium recurvirostre*, 99
- Hyperafroneta obscura*, 111
- Hypericum* aff. *japonicum*
- (a), 48
 - (b), 63
- Hyperoodon planifrons*, 103
- Hypnobartlettia fontana*, 66
- Hypoblemum albobittatum*, 111
- Hypodrasodes*
- apicus*, 111
 - courti*, 111
 - crassus*, 111
- insulanus*, 111
 - isopus*, 111
- Hypolepis*
- amaurorachis*, 61
 - dicksonioides*, 61
- Hypsela* aff. *rivalis*, 37
- Hypsithocus hudsonae*, 78
- Hyridella menziesii*, 49
- Hysterangium youngii*, 31
- I**
- Ibla*
- idiotica*, 32
 - sp., 39
- Icona*
- alba*, 111
 - drama*, 111
- Idiodorylaimus novaezealandiae*, 111
- Idioteuthis cordiformis*, 39
- Imperata cheesemanti*, 92
- Inonotus chondromyelus*, 31
- Insulanoplectron spinosum*, 78
- Iotula*
- "aff. macroaccelerata", 59
 - "aff. microdegenerata/gracilis", 85
 - "kessneri", 130
 - "minute degenerata", 85
 - "plana", 85
- Iphigenia novae-zelandiae*, 53
- Ipomoea pes-caprae* subsp. *brasiliensis*, 92
- Iredalea subtropicalis*, 72
- Iridogorgia* sp., 47
- Ischyroplectron isolatum*, 78
- Isoetes* aff. *kirkii*, 37
- Isolembidium anomalum*
- var. *anomalum*, 29
 - var. *cucullatum*, 55
- Isolepis*
- basilaris*, 48
 - crassiuscula*, 92
 - fluitans*, 53
- Isonomeutis restincta*, 58
- Isophyllaria attenuata*, 55
- Isotachis westlandica*, 29
- Isothraulus abditus*, 67
- Ixobrychus novaezealandiae*, 26
- Izatha*
- caustopa*, 111
 - griseata*, 130
 - psychra*, 33
 - rigescens*, 33
 - sp. "big brown", 130
 - sp. "mini-metadelta", 130
 - sp. "small grey", 130
 - sp. "tufted disc", 130
 - sp. "whorled antennae", 130

J

- jewelled gecko, 50
- Jotus ravidus*, 111
- Jovellana sinclairii*, 53
- Juncus*
 - boloschoenus* var. *boloschoenus*, 43
 - scheuchzerioides*, 92

K

- Kaikouras gecko, 76
- Kaiparapelta* sp., 74
- Kaitawa insulare*, 111
- kakapo, 28
- Kamo carabid, 131
- Kapala* sp., 74
- Kapanga*
 - alta*, 112
 - festiva*, 112
 - grana*, 112
 - hickmani*, 78
 - isulata*, 112
 - luana*, 112
 - mana*, 112
 - manga*, 112
 - solitaria*, 112
 - wiltoni*, 112
- Kapitia obscura*, 112
- karoti, 64
- Kathetostoma* sp., 70
- “Kaupotaka” “aff. lampra”, 85
- kawekaweau, 26
- kea, 38
- kereru, 49
- Kermadec demoiselle*, 70
- Kermadec little shearwater, 65
- Kermadec petrel, 38
- Kermadec red-crowned kakariki, 64
- Kermadec scalyfin, 70
- Kermadec spiny dogfish, 102
- Kermadec triplefin, 70
- Kermadec urchin clingfish, 70
- Kermadec white-faced storm petrel, 28
- Kermarion kermadecensis*, 112
- Kermia benbami*, 72
- Kermodon royanum*, 112
- Kidderia* sp., 74
- Kieconcha kermadeci*, 112
- killer whale, 32
- Kirkianella novae-zelandiae*
 - f. *glauca*, 93
 - f. *novae-zelandiae*, 61
- Kiwaia*
 - jeanae*, 40
 - “plains jumper”, 42
 - pumila*, 58
 - sp. “Cloudy Bay”, 34

- knifetooth dogfish, 102
- Koeleria*
 - aff. *novozelandica*, 37
 - riguorum*, 132
- Kogia breviceps*, 103
- Kokikora mimiwhangata*, 78
- Kokiria mibaro*, 45
- Kopua nuimata*, 70
- “Korapapa” “aff. *aupouria*”, 85
- Kortbalsella salicornioides*, 61
- “Korukoura”
 - “australis”, 85
 - “meadsi”, 85
- kukupu, 49
- Kunzea*
 - aff. *ericoides* (a), 46
 - ericoides*
 - var. *linearis*, 48
 - var. *microflora*, 93
 - sinclairii*, 93
- Kupea electilis*, 40
- Kurzia tenax*, 55

L

- Lachnagrostis*
 - ammobia*, 93
 - leptostachys*, 93
 - pilosa* subsp. *nubifera*, 93
 - tenuis*, 93
 - uda*, 132
- Lactarius maruiaensis*, 31
- Laemonema* spp., 102
- Laestrygones*
 - albiceris*, 112
 - chatbamensis*, 78
 - minutissimus*, 78
 - otagoensis*, 112
 - westlandicus*, 112
- Laetesia*
 - amoena*, 112
 - aucklandensis*, 78
 - bellissima*, 112
 - chatbami*, 78
 - distincta*, 58
 - germana*, 112
 - intermedia*, 112
 - minor*, 112
 - olvidada*, 112
 - paragermana*, 112
 - prominens*, 112
 - pseudamoena*, 112
 - pulcherrima*, 112
 - weburdi*, 112
- Laeviltorina*
 - antipodum*, 72
 - bifasciata*, 72
 - delli*, 72

- Lagenifera*
lanata, 61
montana, 132
- Lamina*
minor, 112
montana, 112
parana, 112
ulva, 112
- lamprey, 56
lancelet, 56
- Landsburgia*
ilicifolia, 69
myricifolia, 69
- Laoma*
“ballanceae”, 85
“decipula”, 85
“horningae”, 85
labyrinthica, 78
mariae aupouria, 78
“megabartleia”, 85
minuta, 78
“Mokihinui”, 85
“Peraki”, 85
“Rapahoe”, 85
“tutuhesperus”, 85
- Laomarex*
minuta, 78
regia, 78
sericea, 78
- large Otago gecko, 51
largespine velvet dogfish, 101
- Larus*
bulleri, 47
novaehollandiae scopulinus, 49
- Lastreopsis* aff. *glabella*, 97
- Lathicrossa prophetica*, 112
- Latia climoi*, 100
- Latrodectus*
atritus, 47
katipo, 47
- Laufeia aeribirta*, 112
- laughing owl, 26
- Leiodidae n. gen.
“Karamea”, 130
“Mangamuka Range”, 130
- Leiomitra julacea*, 29
- Leiopelma*
archeyi, 30
hamiltoni, 30
hochstetteri, 56
pakeka, 39
- Leioproctus*
“nunui”, 34
“otautahi”, 27
sp. 3 “coastal”, 130
- Lejeunea*
AK253889, 100
anisophylla, 66
cyanophora, 29
“no lobes”, 66
sp. 768, 100
sp. 799, 100
- Lepidium*
aff. *oleraceum*
(a), 37
(b), 44
(c), 44
(d), 37
banksii, 36
desvauxii, 132
flexicaule, 46
kirkii, 43
naufragorum, 61
obtusatum, 27
oleraceum, 43
sisymbrioides
subsp. *kawarau*, 43
subsp. *matau*, 36
subsp. *sisymbrioides*, 53
tenuicaule, 53
- Lepidotrigla robinsi*, 70
- Lepidozia*
acantha, 55
elobata, 66
fugax, 99
- Lepiduris viridus*, 56
- Lepilaena bilocularis*, 132
- Leptecophylla robusta*, 93
- Leptinella*
(a), 37
albida, 93
atrata subsp. *luteola*, 93
calcarea, 93
dioica subsp. *monoica*, 54
dispersa
subsp. *dispersa*, 61
subsp. *rupestris*, 93
featherstonii, 46
filiformis, 36
intermedia, 133
lanata, 93
minor, 93
nana, 43
plumosa, 93
potentillina, 93
pyrethrifolia var. *linearifolia*, 93
rotundata, 46
serrulata, 53
tenella, 61
traillii
subsp. *puchella*, 93
subsp. *traillii*, 93
- Leptochiton norfolcensis subtropicalis*, 72
- “Leptocroca” *xyrias*, 112
- Leptolejeunea elliptica* subsp. *subacuta*, 66

- Leptomithrax tuberculatus mortenseni*, 72
- Leptothyra*
benthicola, 72
kermadecensis, 72
- lesser fulmar prion, 64
- Lessonia*
adamsiae, 69
brevifolia, 69
tholiformis, 69
- Leucocarbo*
campbelli, 64
carunculatus, 64
chalconotus, 45
colensoi, 64
onslowi, 38
ranfurlyi, 28
- Leucodrilus*
digitocystis, 112
fuscus, 112
robustus, 112
- Leucogenes*
neglecta, 93
tarabaoa, 48
- Leucopogon*
parviflorus, 93
xerampelinus, 97
- Leucostoma*
sp. 1, 50
sp. 2, 50
- Liarea*
aupouria aupouria, 78
bicarinata, 78
egea "Poor Knights", 85
ornata, 78
partula, 78
sp. "Bream Head", 130
turriculata "Manaia", 85
- Libertia*
aff. *ixioides*
(a), 133
(b), 133
aff. *peregrinans*, 63
cranwelliae, 132
peregrinan, 53
- Libocedrus plumosa*, 61
- Lienardia roseocincta*, 72
- light-mantled sooty albatross, 49
- Lignocarpa diversifolia*, 93
- Lillipathes lillei*, 72
- Limosella*
(a), 133
(b), 37
- Lindbergia maritima*, 29
- Lindsaea viridis*, 61
- Linguella puberula*, 36
- Linum monogynum* var.
chathamicum, 36
- Lissodendoryx* sp., 74
- Lissotesta conoidea*, 72
- "Litopunctum"
"aff. *lambata*", 85
"aff. *ordinarium*", 85
"brunneum", 85
"calciphillia", 85
"mayhillae", 85
sp. "tight viridis", 85
"thomsoni", 85
"viridula", 85
"whakapapai", 85
- Little Barrier Island snipe, 26
- little black shag, 65
- little sleeper shark, 102
- little spotted kiwi, 64
- Logania depressa*, 27
- Loisthodon benhami*, 78
- long-lined sculpin, 69
- long-tailed bat (North Island), 45
- long-tailed bat (South Island), 38
- long-tailed cuckoo, 49
- long-toed skink, 57
- longfin eel, 49
- Longibulbophora ammophilae*, 112
- Longidorus*
orongorongensis, 112
waikouaitii, 33
- Longimenopon* sp., 34
- longnose spiny dogfish, 102
- longsnout/smooth pipefish, 102
- longsnout dogfish, 101
- longtailed rig, 70
- Lophodermium kaikawakae*, 56
- Lopholejeunea* "black", 66
- Lophozia*
autoica, 29
nivicola, 29
pumicola, 29
subalpina, 29
- Lower Shag galaxias, 100
- lowland longjaw galaxias, 30
- Loxomerus* sp. "Bollons Island", 42
- Loxostege* sp. "salt pan", 52
- Lutraria bruuni*, 72
- Luzula*
celata, 48
crenulata, 93
traversii var. *tenuis*, 93
- Lyconus* spp., 102
- Lycopodiella serpentina*, 46
- Lymnaea tomentosa*, 30
- Lyperobius*
carinatus, 58
nesidiotes, 33

M

- Macromitrium*
angulatum, 29
brevicaule, 66
Macronectes balli, 64
Macropiper
excelsum
 subsp. *peltatum*
 f. *delangei*, 93
 f. *peltatum*, 93
 subsp. *psittacorum*, 93
melchior, 93
Macrobellypteris torresiana, 61
Madrepora oculata, 47
“Magilaoma” “Whangaroa”, 85
Mabura
accola, 112
bainhamensis, 112
crypta, 112
detrita, 112
binua, 112
musca, 112
rubella, 112
rufula, 113
scuta, 113
spinosoides, 113
takabea, 113
tarsa, 113
vella, 113
Makora
calypso, 113
detrita, 113
diversa, 113
figurata, 113
minica, 113
Malkaridae, 130
Maloides cavernicola, 113
Malpha
cockrofti, 58
muiri, 58
Mallbopsis spp., 102
Mamoea
assimilis, 113
bicolor, 113
cantuaria, 113
cooki, 113
florae, 113
grandiosa, 78
hesperis, 113
bughsoni, 113
inornata, 113
mandibularis, 113
maorica, 113
montana, 113
monticola, 113
otira, 113
pilosa, 113
rakiura, 113
rufa, 113
unica, 113
Manawa
frondosa, 113
setosa, 113
solitaria, 113
Mandarin dogfish, 56
Mangareia
maculata, 113
motu, 113
Mangua
caswell, 113
convoluta, 113
flora, 113
forsteri, 78
gunni, 113
bughsoni, 113
kapiti, 113
makarora, 113
medialis, 113
oparara, 113
otira, 113
paringa, 113
sana, 113
secunda, 113
Manibo
australis, 114
cantuarius, 114
centralis, 114
insulanus, 114
meridionalis, 114
ngaitabu, 114
otagoensis, 114
pumilio, 114
tigris, 114
vulgaris, 114
Maoriata
magna, 114
montana, 114
Maoricicada myersi, 78
Maoricrambus oncobolus, 58
Maoridrillus
alpinus, 114
carnosus, 114
dissimilis, 114
fuscus, 114
gravus, 114
?intermedius, 130
?mauiensis, 130
megacystis, 114
michaelseni, 114
minor, 114
modestus, 114
montanus, 114
nelsoni, 114
pallidus, 114
parkeri, 114

- Maoridrillus* (continued)
plumbeus, 114
purus, 114
ruber, 114
rubicundus, 114
smithi, 114
suteri, 114
tetragonurus, 114
?thomsoni, 130
transalpinus, 114
uliginosus, 114
ultimus, 114
volutus, 114
wilkini, 114
- Maorineta*
acerba, 114
gentilis, 114
sulcata, 114
tibialis, 114
tumida, 114
- Maorinus*
bunuaeformis, 114
sp., 130
toronouiti, 114
- Maoritenes* sp. “olearia”, 42
- Marattia salicina*, 48
- marbled skink, 76
- Marchantia macropora*, 66
- Margarella*
antipoda binemoa, 72
sp. A, 74
sp. B, 74
- Marginariella parsonsi*, 69
- Marlborough green gecko, 57
- Marpissa*
arenaria, 114
armifera, 114
cineracea, 114
leucophaina, 115
marina, 115
nemoralis, 115
- Marplesia*
dugdalei, 115
pohara, 115
- marsh crake, 55
- masked booby, 65
- Matachia*
magna, 115
marplei, 115
ramulicola, 115
similis, 115
- Matapia gecko, 51
- matata, 38, 55, 64
- Matua*
festiva, 115
valida, 115
- Maud Island frog, 39
- Maui’s dolphin, 32
- Mauiulus aquilus*, 100
- Maxillicosta raoulensis*, 70
- Mazus*
arenarius, 53
novaezeelandiae
f. *impolitus*, 48
subsp. *impolitus* f. *hirta*, 36
subsp. *novaezeelandiae*, 48
- McGregor’s skink, 76
- McMillan’s cat shark, 102
- Mecodema*
angustulum, 79
atrox, 58
chiltoni, 58
costellum
costellum, 40
lewisi, 58
obesum, 47
“spelles”, 27
dunense, 79
bowitti, 51
laeviceps, 33
litoreum, 79
nitidum, 58
pavidum, 79
proximus, 58
pulchellum, 58
punctellum, 26
quoinense, 79
rex, 58
sp. “Poor Knights”, 85
sp. “Te Paki”, 34
strictum, 79
trailli “Big South Cape”, 85
- Megacolabus*
bifurcatus, 115
obesus, 115
sculpturatus, 26
- Megadromus*
antarcticus subsp. 1, 42
bucolicus, 79
compressus, 58
fultoni, 58
haplopus, 58
“Omarama”, 42
sp. 1 (species aff. *sandageri*), 85
sp. 8 “Omeo Hut”, 34
sp. 9 “Millers Flat”, 130
sp. 11 “Benmore”, 85
sp. “eastern Sounds”, 85
- Megadyptes antipodes*, 45
- Megafroneta*
dugdaleae, 115
elongata, 115
gigas, 115
- Megascolex*
animae, 115
novae-zealandiae, 115

- Megascolides*
albus, 115
equestris, 115
esculentus, 115
fuscus, 115
buttoni, 115
irregularis, 115
kirki, 115
maoricus, 115
mortenseni, 115
napiensis, 115
neglectus, 115
parvus, 115
raglani, 115
reptans, 115
ruber, 115
rubicundus, 115
sapidus, 115
suteri, 115
tasmani, 115
unipapillatus, 115
urewerae, 115
viridis, 115
- Meiocardia* sp., 74
- Melampsora novaezealandiae*, 47
- Melanella*
kermadecensis, 72
luminosa, 72
perplexa, 72
spinosa, 72
- Melicytus*
(a), 44
aff. *alpinus*
(a), 133
(b), 133
(c), 133
(d), 133
(e), 133
(f), 54
(g), 97
aff. *crassifolius*, 97
aff. *novae-zealandiae*, 97
aff. *obovatus*
(b), 37
(c), 133
cbathamicus, 93
crassifolius, 61
drucei, 93
flexuosus, 53
obovatus, 93
ramiflorus
subsp. (a), 98
subsp. (b), 98
- Menimus*
borealis, 79
brouni, 79
clarkei, 79
crinalis, 58
curtulus, 58
dubius, 79
elongatus, 79
belmorei, 79
laevicollis, 58
moebauensis, 79
oblongus, 58
obscurus, 115
pubiceps, 79
puncticeps, 115
sinuatus, 33
thoracicus, 115
- Merelina*
sp. A, 74
sp. B, 75
sp. C, 75
sp. D, 75
- Mergus australis*, 26
- Meringa*
australis, 79
borealis, 115
centralis, 115
conway, 115
leith, 115
nelson, 116
otago, 116
tetragyna, 116
- Mermis novaezealandiae*, 116
- Meryta sinclairii*, 93
- Mesodorylaimus profundis*, 116
- Mesoplodon*
bowdoini, 103
denstrostris, 103
grayi, 103
hectori, 103
layardii, 103
peruvianus, 103
traversii, 103
messmate, 70
- Metablax* sp., 130
- Metafroneta*
minima, 116
sinuosa, 79
subversa, 116
- Metallogorgia*
cf. *melanotrichos*, 47
- Metamynoglenes*
absurda, 116
attenuata, 116
flagellata, 59
gracilis, 79
belicoides, 79
incurvata, 116
magna, 79
nongotaba, 79
- Meta rufolineata*, 116

Metaxia kermadecensis, 72
Meterana
exquisita, 51
 “Foveaux Strait”, 34
grandiosa, 51
pansicolor, 59
pictula, 59
Metrosideros
bartlettii, 36
kermadecensis, 93
Metzgeria
alpina, 66
bartlettii, 55
Miconchus
kirikiri, 116
rex, 100
Micrelenchus festivus, 72
 “Microbrunnea” “aff. semiminuta/
 accelerata”, 85
Microlaena carsei, 61
 “Micromocella”
 “aff. elliottae”, 85
 “barrierensis”, 85
Micropilina
rakiura, 72
 sp. A, 102
 sp. B, 102
 sp. C, 102
tangaroa, 72
Microsania tonnoiri, 116
Microscolex
aucklandicus, 116
campbellianus, 116
phosphoreus, 116
Microsorium novae-zelandiae, 61
Microtendipes “Blue Lake”, 130
Microtetrameres nestoris, 116
Microtis aff. *unifolia*, 37
Mida salicifolia, 53
Migas
australis, 116
borealis, 116
cambridgei, 116
cantuarius, 116
centralis, 116
cumberi, 116
distinctus, 116
gatenbyi, 116
giveni, 116
goyeni, 116
hesperus, 116
hollowayi, 116
insularis, 79
kirki, 116
kochi, 116
linburnensis, 116
lomasi, 116
marplei, 116
minor, 116
otari, 116
paradoxus, 116
quintus, 116
sandageri, 79
saxtilis, 116
secundus, 116
solitarius, 116
taierii, 116
tasmani, 116
toddae, 116
tuboe, 116
Mimetus
mendicus, 117
sennio, 117
Mimopeus
clarkei, 79
costellus, 79
granulosus, 79
insularis, 79
johnsi, 79
lateralis, 79
lewisianus, 79
neglectus, 117
parallelus, 40
parvus, 79
pascoei, 79
rugosus, 79
 sp. “Poor Knights”, 85
subcostatus, 79
turbotti, 79
vallis, 79
Mimulus repens, 61
Mirounga leonina, 32
Mischoderus
marginatus, 79
neptunus, 59
Misgolas
abdita, 79
allani, 79
aperta, 117
apica, 117
assimilis, 117
borealis, 117
catlinensis, 117
cognata, 117
collensis, 117
delli, 79
dendyi, 117
depressa, 117
dunedinensis, 117
gilliesi, 117
grandis, 117
buttoni, 117
insulana, 79
isolata, 117
johnsi, 117
kakabuensis, 117

- Misgolas* (continued)
- kakanuiensis*, 117
 - lomasi*, 117
 - magna*, 117
 - marplei*, 117
 - maxima*, 117
 - medialis*, 117
 - minor*, 79
 - myersi*, 117
 - napua*, 117
 - orepukiensis*, 117
 - parrotti*, 117
 - pilama*, 117
 - prina*, 117
 - reducta*, 117
 - secunda*, 117
 - sinclairi*, 117
 - stephenensis*, 79
 - stewarti*, 79
 - sylvatica*, 117
 - toddae*, 117
 - vellosa*, 117
 - wanganuiensis*, 117
- Mitodon*
- “aff. vortex”, 86
 - “Akatarawa”, 86
 - “Puponga”, 86
- Mitophyllus gibbosus*, 117
- Mitrasacme montana* var. *helmsii*, 93
- Mitrella*
- sp. A, 75
 - sp. B, 75
- Mitromorpha expeditionis*, 72
- Mitsukurina owstoni*, 57
- Mitua*
- triangularis*, 117
 - tuberculicostata*, 117
- Miturgidae, 128
- Mnesarchaea*
- fallax*, 59
 - sp. “Stellae”, 86
- Mnioloma fusca*, 55
- Moboua ochrocephala*, 38
- mohua, 38
- Mokohinau gecko, 76
- Mokohinau skink, 76
- moko skink, 57
- Monilea incerta*, 72
- Monopharsus annulatus*, 117
- Montigena novae-zelandiae*, 53
- mottled petrel, 65
- Motuweta isolata*, 33
- Mount Arthur gecko, 76
- Muehlenbeckia*
- astonii*, 46
 - ephedroides*, 62
- Muelleriella*
- angustifolia*, 66
 - aucklandica*, 66
- Munditia*
- anomala*, 72
 - aupouria*, 72
 - delicatula*, 72
 - echinata*, 72
 - manawatawhia*, 72
 - suteri*, 72
- Muritaia*
- kaituna*, 117
 - longispinata*, 117
 - orientalis*, 117
 - parabusa*, 117
- Mustelus* sp., 70
- Mycosphaerella* sp., 56
- Mylonchulus arenicolus*, 117
- Myoporum kermadecense*, 93
- Myosotidium hortensia*, 43
- Myosotis*
- (a), 98
 - aff. *australis*, 63
 - aff. *brockiei*, 98
 - aff. *pulvinaris*, 133
 - aff. *pygmaea*, 44
 - aff. *tenericaulis*, 133
 - albosericca*, 36
 - angustata*, 36
 - antarctica*, 93
 - arnoldii*, 93
 - australis* var. *lytteltonensis*, 36
 - (b), 37
 - brockiei*, 53
 - (c), 133
 - capitata*, 93
 - cheesemantii*, 36
 - colensoi*, 43
 - concinna*, 94
 - eximia*, 94
 - explanata*, 94
 - glabrescens*, 132
 - laeta*, 94
 - laingii*, 132
 - matthewsii*, 94
 - monroi*, 94
 - oreophila*, 94
 - petiolata*
 - var. *pansa*, 43
 - var. *pottsiana*, 132
 - pygmaea*
 - var. *glauca*, 43
 - var. *minutiflora*, 46
 - var. *pygmaea*, 48
 - rakiura*, 94
 - saxosa*, 62

- Myosotis* (continued)
spatulata
 var. *radicata*, 63
 var. *spatulata*, 62
suavis, 132
tenericaulis, 62
traversii var. *cinerascens*, 27
uniflora, 132
Myosotos petiolata, 36
Myosurus minimus subsp. *novae-zelandiae*, 43
Myriophyllum robustum, 53
Myro marinus, 118
Myrsine
 aff. *divaricata*, 63
argentea, 43
coxii, 94
kermadecensis, 94
oliveri, 94
Mysella
 sp., 75
tellinula, 72
 Mysmenidae, 130
Mystacina
robusta, 99
tuberculata
aupourica, 38
rhyacobia
 (eastern), 64
 (north-western), 64
tuberculata
 (southern North Island), 28
 (South Island), 38
Mystacinobia zelandica, 79
- N**
- Namanereis tiriteae*, 56
Nanocambridgea grandis, 118
Nassarius sp., 75
Naultinus
elegans
elegans, 50
punctatus, 50
gemmeus, 50
grayii, 50
manukanus, 57
 “North Cape green gecko”, 57
rudis, 50
stellatus, 51
tuberculatus, 57
Navomorphba neglecta, 79
Negulus senex, 118
 Nelson green gecko, 51
Nemacystus novae-zelandiae, 101
Nematoceras
 aff. *rivularis*
 Kaimai, 134
 Kaitarakahi, 133
 “rest area”, 134
 “whiskers”, 134
 aff. *trilobus*
 “pygmy”, 134
 Rimutaka, 134
 Trotters, 134
rivularis, 132
Nemertesia elongata, 72
Nemoctenus aurens, 118
Neobiosella irrorata, 67
Neochaeta
forsteri, 118
salmoni, 118
Neochanna
apoda, 49
burrowsius, 39
diversus, 49
beleios, 39
rekobua, 66
Neocurupira chiltoni, 67
Neodrilus
agilis, 118
campestris, 118
dissimilis, 118
edwardsi, 118
polycystis, 118
Neogrollea notabilis, 39
Neoitamus
 “tawahi”, 86
 “tetatus”, 86
Neolana
pallida, 118
septentrionalis, 118
Neomyro
amplius, 118
circe, 118
scitulus, 118
Neopaxia
drucei, 36
erythrophylla, 62
lineariifolia, 132
racemosa, 94
Neophreatoicus assimilis, 100
Neophyllaphis sp., 86
Neopsittaconirmus kea, 40
Neoramia
allanae, 118
alta, 118
charybdis, 79
crucifera, 80
finschi, 118
fiordensis, 118
boggi, 80
bokina, 80
koba, 118
komata, 118
mamoea, 118
marama, 118

- Neoramia* (continued)
- margaretae*, 80
 - matua*, 118
 - minuta*, 118
 - nana*, 118
 - oroua*, 118
 - otagoa*, 118
 - raua*, 118
 - setosa*, 118
- Neorepukia*
- bama*, 118
 - pilama*, 80
- Neororea*
- bomerica*, 118
 - sorenseni*, 80
- Neoscona orientalis*, 118
- Nepbelolejeunea*
- aff. *bamata*, 100
 - talinayi*, 29
- Nepbrolepis*
- (a), 98
 - birsutula*, 94
- Nesameletus vulcanus*, 67
- Nesoperla jobnsi*, 67
- Nesoptychias simpliceps*, 59
- Nestor*
- meridionalis*
 - meridionalis*, 38
 - septentrionalis*, 38
 - notabilis*, 38
- Neurochorema* sp. A, 68
- New Zealand dabchick, 55
- New Zealand fairy tern, 28
- New Zealand king shag, 64
- New Zealand little bittern, 26
- New Zealand pigeon, 49
- New Zealand quail, 26
- New Zealand sea lion, 75
- New Zealand shore plover, 28
- New Zealand sooty tern, 49
- New Zealand storm-petrel, 99
- ngutu-pare, 45
- Niso* sp., 75
- Nomaua*
- arborea*, 118
 - cauda*, 118
 - crinifrons*, 118
 - nelson*, 118
 - perdita*, 118
 - waikaremoana*, 118
- north-western central short-tailed bat, 64
- North Cape green gecko, 57
- North Cape Pacific gecko, 57
- northern Buller's mollymawk, 65
- northern giant petrel, 64
- northern little blue penguin, 49
- northern New Zealand dotterel, 45
- northern royal albatross, 45
- northern short-tailed bat, 38
- northern tuatara, 57
- North Island brown kiwi, 47
- North Island fernbird, 55
- North Island kaka, 38
- North Island kokako, 38
- North Island little shearwater, 65
- North Island piopio, 26
- North Island rifleman, 49
- North Island saddleback, 65
- North Island weka, 38
- Northland green gecko, 50
- Northland mudfish, 39
- Notamphisopus*
- benbami*, 100
 - dunedinensis*, 100
 - flavius*, 100
 - kirkii*, 100
 - littoralis*, 100
 - percevali*, 100
- Nothaldonus peacei*, 118
- Nothoboraia micrognathia*, 100
- Notiodrassus*
- distinctus*, 118
 - fiordensis*, 118
- Notiomystis cincta*, 38
- Notoacmea badia*, 72
- Notoligotrichum bellii*, 66
- Notomatachia*
- cantuaria*, 118
 - birsuta*, 118
 - wiltoni*, 118
- Notoplectron campbellense*, 80
- Notopogon xenosoma*, 70
- Notopoides latus*, 72
- Notoraja*
- asperula*, 101
 - sp. A, 102
 - sp. B, 102
 - sp. C, 102
 - sp. D, 102
 - sp. E, 102
 - spinifera*, 101
- Notoreas*
- "Cape Campbell", 42
 - "Cape Turnagain", 34
 - "Castlepoint", 34
 - "Mason Bay", 34
 - "northern", 42
 - "Rahu Saddle", 34
 - "South Shag River", 34
 - "Taranaki Coast", 47
 - "Waiho Flats", 35
 - "Wellington", 47
- Notoscolex bakeaphilus*, 118

- Notoblaspi* (a), 98
Novafroneta
annulipes, 59
gladiatrix, 59
nova, 119
parmulata, 119
truncata, 119
Novakiella trituberculosa, 119
Novalaetesia
anceps, 119
atra, 119
Novoplectron serratum, 80
- O**
- Obanella* sp., 86
Oceanites maorianus, 99
ocellate triplefin, 69
Ochlochaete hystrix, 101
Ocrisiona
cinerea, 119
leucocomis, 119
Octochaetus
antarcticus, 119
brucei, 119
buttoni, 119
kapitiensis, 119
?levis, 119
michaelseni, 119
?microchaetus, 119
pelorus, 119
ravus, 119
sylvestris, 119
thomasi, 119
trocystis, 119
Octopus kabaroa, 47
Oculina virgosa, 72
Odax cyanoallix, 70
Odontaspis ferox, 57
Odontria
sp. "Kirkliston Range", 130
sp. "Poor Knights", 86
Oecetis chathamensis, 67
Oeconesus angustus, 30
Ogma
campbelli, 119
crenulatum, 119
Okarito brown kiwi, 28
Okarito forest gecko, 103
Olearia
aff. *odorata*, 37
allomii, 94
angulata, 132
capillaris, 62
chathamica, 94
cheesemantii, 53
crebra, 43
crosby-smithiana, 94
fimbriata, 48
fragrantissima, 62
gardneri, 36
hectorii, 46
lineata, 62
pachyphylla, 43
polita, 43
semidentata, 94
traversii, 94
Oligosoma
acrinasum, 76
aff. *chloronoton* "West Otago", 51
aff. *infrapunctatum* "Southern North Island", 40
aff. *lineocellatum*
"Central Canterbury", 40
"Mackenzie Basin", 51
"South Marlborough", 51
"Big Bay", 76
chloronoton, 51
fallai, 76
grande, 32
"Grey Valley", 76
bomalonotum, 40
inconspicuum, 51
infrapunctatum, 51
lineocellatum, 51
longipes, 57
microlepis, 47
moco, 57
nigriplantare nigriplantare, 76
notosaurus, 57
"Open Bay Island skink", 32
otagense, 32
"Rangitata", 103
"Sinbad Valley", 103
stenotis, 76
striatum, 103
suteri, 76
"Te Kakahu", 103
waimatense, 51
"Whirinaki", 103
zelandicum, 57
Olinga fumosa, 56
Omedes nitidus, 80
Onitbochiton oliveri, 72
Ooperipatellus nanus, 80
Opacuicola
caeca, 67
kuscheli, 67
"Oparara" "bartlei", 86
Oparara
karamea, 119
vallus, 119
Open Bay Islands gecko, 32
Open Bay Island skink, 32
Opbieulima fuscoapicata, 72

- Opbioglossum petiolatum*, 43
- Opisthoteuthis*
chathamensis, 32
mero, 32
- Oramia*
chathamensis, 80
littoralis, 119
mackerrowi, 119
marplei, 80
occidentalis, 119
rubrioides, 80
solanderensis, 80
- Oramiella wisei*, 119
- orange-fronted parakeet, 28
- Orcinus orca*, 32
- Oregus*
crypticus, 59
inaequalis, 80
septentrionalis, 59
- Oreomyrrhis*
“minute flower”, 63
colensoi var. *delicatula*, 43
- Oreoporphyrantthera alpina*, 94
- Orepukia*
alta, 119
catlinsensis, 119
dugdalei, 119
egmontensis, 119
florae, 119
geophila, 119
grisea, 119
insula, 119
nummosa, 80
orophila, 119
pallida, 119
prina, 119
rakiura, 80
redacta, 119
riparia, 119
sabua, 119
similis, 119
simplex, 119
sorenseni, 119
tanea, 119
tonga, 119
virtuta, 120
- ornate skink, 50
- Ornithobdella edentula*, 80
- Orocrambus*
fugitivellus, 33
jansoni, 40
“Mackenzie Basin”, 42
ornatus, 120
punctellus, 120
sophistes, 40
sopbronellus, 120
- Orongia*
medialis, 120
motueka, 120
wbangamoa, 120
- Orthoclydon pseudostinaria*, 33
- Orthotheciella varia*, 66
- Otagoa*
chathamensis, 80
nova, 120
wiltoni, 120
- Otago skink, 32
- Otira*
canasta, 120
indura, 120
liana, 120
parva, 120
satura, 120
terricola, 120
- Otoconcha fiordlandica*, 80
- Oursia*
aff. *caespitosa*, 98
confertifolia, 94
goulandiana, 94
modesta, 53
remotifolia, 94
spatulata, 94
- Ovillaria catenata*, 101
- Oxalis* aff. *rubens*, 63
- Oxyethira waipoua*, 67
- Oxyperas belliana*, 72
- P**
- Pachycladon*
aff. *fastigiata*, 37
cheesemanii, 53
crenatus, 94
enysii, 53
exilis, 36
fastigiata, 53
stellata, 48
wallii, 94
- Pachyptila*
crassirostris
crassirostris, 64
eatoni, 64
pyramidalis, 65
desolata, 49
- Pachyschistochila*
latiloba, 55
papillifera, 29
- Pachystegia*
aff. *insignis*, 134
minor, 132
rufa, 94
- Pacificana cockaynei*, 80
- Pacific gecko, 50

Pacific sleeper shark, 57
paddletail spiny dogfish, 102
Pabora
cantuaria, 120
kaituna, 120
media, 120
montana, 120
rakiura, 120
taranaki, 120
wiltoni, 120
Paboroides courti, 120
Pakeba
buechlerae, 120
duplex, 120
biloa, 120
inornata, 120
insignita, 120
kirki, 80
lobata, 120
manapouri, 120
maxima, 120
media, 120
minima, 120
paratecta, 120
parrotti, 120
pula, 120
stewartia, 80
subtecta, 120
tecta, 120
Palaeomicra sp. "Percy", 130
Pallavicinia aff. *rubristipa*, 66
Palliopodex verrucosus, 80
Palmophyllum umbracola, 69
Panoa
contorta, 120
fiordensis, 120
mora, 120
tapanuiensis, 120
Papillolejeunea pocsti, 55
Papulaoma
"aff. *monticola*", 86
"aff. *otagoensis*", 86
Paracharopa rimu, 59
Paracromastigum
drucei, 66
fiordlandiae, 29
fissifolium, 99
kirkii, 99
Paradictyna
ilamia, 120
rufolava, 120
Paradoxaphis
aristoteliae, 33
plagianthi, 80
Parafroneta
ambigua, 120
demota, 59
baurokoeae, 120
birsuta, 120
insula, 59
marrineri, 80
minuta, 121
monticola, 121
persimilis, 121
pilosa, 121
subalpina, 80
subantarctica, 80
westlandica, 121
Parabebe aff. *catarractae*, 98
Paralaoma
buddlei, 80
manawatawbia, 80
pagoda, 80
raki, 80
regia, 80
turbotti, 80
Paralissotes
mangonuiensis, 59
oconnori, 59
Paralobus salmoni, 121
Paramamoea
aquilonalis, 121
arawa, 121
incerta, 121
incertoides, 121
insulana, 80
pandora, 121
paradisica, 121
parva, 121
urewera, 121
waipoua, 121
Paramyro
apicus, 121
parapicus, 121
Paranapis
insula, 121
isolata, 121
Paraneonetus multispinus, 80
Paranephrops
planifrons, 49
zealandicus, 49
Paranotoreas fulva, 51
Parapercis binivirgata, 101
Parapua punctata, 121
Pararchaea
alba, 121
rubra, 121
Paratorchus
alifer, 121
flexuosus, 121
Paratylenchus balophilus, 121
Paravoca
opaca, 121
otagoensis, 121
parea, 28
Parma kermadecensis, 70

- Parmaturus*
macmillani, 102
 sp., 102
- Paroxyethira*
hintoni, 100
kimminsi, 56
 sp. B, 101
 sp. H, 101
 sp. S, 68
 sp. W, 101
 sp. WP, 68
- Parsonsia praeruptis*, 94
- Partystona metallica*, 80
- Paryphanta busbyi*
busbyi, 51
watti, 51
- Pasiphila* sp. "olearia", 42
- Pasmaditta* "aff. hamiltoni", 86
- Paspalum orbiculare*, 53
- Patella kermadecensis*, 72
- Patellaria* sp., 56
- Patinigera terroris*, 72
- Paxillostium nanum*, 67
- pearlfish, 70
- Pectunculina* sp., 75
- Pedeciini n. gen. n. sp. "Banks Peninsula", 130
- Pedinophyllum monoicum*, 55
- Pelagodroma marina albiclunis*, 28
- Pelecanooides georgicus* "Codfish Island", 28
- Pellaea falcata*, 53
- Peltosporidae
 sp. A, 75
 sp. B, 75
 sp. C, 75
- Penetirmus* sp., 35
- Pennantia baylisiana*, 36
- Pentaceros decacanthus*, 57
- Peperomia*
 aff. *urvilleana*, 63
tetraphylla, 62
- Peraxilla*
colensoi, 53
tetrapetala, 53
- Pericoptus*
frontalis, 80
nitidulus, 121
- Periegops suterii*, 59
- Perieodrilus*
lateralis, 121
montanus, 121
plunketi, 121
ricardi, 121
- Perionyx*
egmonti, 121
helophilus, 121
perionychopsis, 121
shoeanus, 121
- Peripatooides*
indigo, 80
suteri, 80
- Perisporochnus regalis*, 69
- Perrierina* sp., 75
- Pestalotiopsis* sp., 50
- Petalochilus alatus*, 94
- Petalophyllum*
australe, 39
bodgsoniae, 29
preissei, 39
- Petasactis technica*, 121
- Petroica*
australis rakiura, 38
macrocephala
cbathamensis, 38
dannefaerdi, 65
marrineri, 65
traversi, 28
- Phacussa fulminata fulminata*, 80
- Phaeoceros hirticalyx*, 29
- Phaeosaces lindsayae*, 121
- Phaethon rubricauda*, 65
- Phalacrocorax*
carbo novaehollandiae, 55
sulcirostris, 65
- Phallobata alba*, 31
- Phanerochaete*
citrina, 31
corymbata, 31
luteoaurantiaca, 31
- Phenacobelix rusticus*, 80
- "Phenacolaoma"
 "sp. 1", 86
 "sp. 2", 86
- Philanisus fasciatus*, 72
- Philesturnus carunculatus*
carunculatus, 38
rufusater, 65
- Philodromus rubrofrontus*, 121
- Philopteris novaezealandiae*, 40
- Philorene texturata*, 73
- Phocarctos hookeri*, 75
- Phoebetria palpebrata*, 49
- Pholcomma*
antipodianum, 121
bickmani, 121
turbotti, 121
- Phomopsis* sp., 50
- Phoroncidia*
pukeiwa, 121
puketoru, 121
quadrata, 121
- Pbreatoicus orarii*, 100
- Pbrixgnathus*
blacki, 80
cognata, 80
flemingi flemingi, 80
laqueus, 80

- Phrixgnathus* (continued)
murdochi, 40
paralaomiformis, 81
rakiura solanderi, 81
sorenseni, 81
spiralis, 81
subariel, 81
transitans, 33
waipoua, 81
“wallacei”, 35
“Phrixothrix” “depilis”, 86
Phrynixus sp. “Poor Knights”, 86
Phyllocladus aff. *trichomanoides*, 98
Phylloglossum drummondii, 43
Phyllosticta sp., 56
Phymorhynchus sp., 75
Physcomitrella patens subsp. *readeri*,
29
Physcomitrium pusillum, 29
Pianoa isolata, 81
Picris
angustifolia subsp. *merxmuelleri*,
62
burbridgei, 43
Pimelea
(a), 37
aff. *arenaria*, 48
aff. *aridula*
(a), 37
(b), 44
(c), 98
(d), 98
aff. *prostrata*, 134
aff. *sericeovillosa*, 98
aff. *tomentosa*
(b), 98
(c), 98
arenaria, 53
(b), 98
(c), 98
crosby-smithiana, 94
(d), 98
(f), 134
lyallii, 53
microphylla, 94
poppelwellii, 62
pseudolyallii, 62
suteri, 94
tomentosa, 48
Pimeleocoris viridis, 33
pipefish, 57, 102
Pisonia brunoniana, 62
Pitt Island shag, 45
Pittosporum
aff. *crassifolium*, 48
dallii, 46
ellipticum, 62
fairchildii, 94
kirkii, 48
obcordatum, 43
patulum, 43
pimeleoides
subsp. *maius*, 94
subsp. *pimeleoides*, 62
serpentinum, 43
turneri, 36
virgatum, 62
Placostylus (*Basileostylus*) *bollonsi*
arbutus, 40
bollonsi, 40
caperatus, 33
“Northeast”, 86
“West”, 35
Placostylus (*Maoristylus*)
ambagiosus
ambagiosus, 33
annectens, 41
consobrinus, 33
bancoxi, 121
“Haupatoto”, 35
“Herangi Hill”, 27
“Kauaetewhakapeke Stream”, 35
keenorum, 33
“Kohuronaki”, 27
michiei, 41
“Ngaupoko”, 42
pandora, 33
paraspirtus, 41
“Poroiki”, 35
“Rangiora”, 35
“Reinga”, 130
“Tapotupotu”, 35
“Te Paki”, 35
“Tirikawa Coast”, 35
“Tirikawa Trig”, 35
watti, 33
whareana, 33
bongii, 81
Plagianthus chatthamicus, 48
Plagiochaeta
lineata, 122
stewartensis, 122
sylvestris, 122
Plagiobila
baylisi, 29
bazzantioides, 66
fragmentisima, 29
hatcheri, 29
kermadecensis, 29
Plagiopus oederiana, 29
Plantago
aucklandica, 94
obconica, 62
spathulata subsp. *picta*, 94
triantha, 94
Platisus zelandicus, 81

- Platyptilia bokowbitalis*, 122
- Plectophanes*
alta, 122
archeyi, 122
frontalis, 122
hollowayae, 122
pilgrimi, 122
- Plectranthias*
bilaticlavata, 70
maculicauda, 70
- Pleuromeris* sp., 75
- Pleurophyllum*
criniferum, 94
hookeri, 94
speciosum, 94
- Pleurosorus rutifolius*, 62
- Plexippus sylvarus*, 122
- Plumatochilos tasmanicum*, 48
- Plutellus*
aucklandicus, 122
parvus, 122
stewartensis, 122
- Poa*
acicularifolia
 subsp. *acicularifolia*, 94
 subsp. *ophitalis*, 94
aff. sublimis, 134
anceps subsp. *polyphylla*, 94
antipoda, 94
aucklandica
 subsp. *aucklandica*, 94
 subsp. *campbellensis*, 94
 subsp. *rakiura*, 95
chathamica, 95
foliosa, 95
incrassata, 62
pygmaea, 95
ramosissima, 95
senex, 95
spania, 36
sudicola, 36
tennantiana, 95
xenica, 95
- Podiceps cristatus australis*, 38
- Poecilafroneta caudata*, 122
- Poliocephalus rufopectus*, 55
- Polygonum plebeium*, 133
- Polyplacapros tyleri*, 102
- Polyporus septosporus*, 31
- Polyprion americanus*, 102
- Pomaderris*
apetala subsp. *maritima*, 36
hamiltonii, 62
paniculosa subsp. *novae-zelandiae*,
 95
phyllicifolia, 43
rugosa, 95
- Pontodrilus*
lacustris, 122
matsushimensis var. *chathamianus*,
 122
- Poor Knights bellbird, 64
- Poor Knights gecko, 76
- Poor Knights skink, 76
- Poranthera microphylla*, 95
- Porella pulcherrima*, 55
- Porioides*
rima, 122
tasmani, 122
- “Poripotaka”
 “aff. ramsayi”, 130
 “micropallax”, 86
 “Paparoa”, 86
 “ponderi”, 60
- Porotaka*
detrita, 122
florae, 122
- Porphyra* spp., 101
- Porphyridium purpuream*, 101
- Porphyrio hochstetteri*, 28
- Porrhothele*
blanda, 122
modesta, 122
quadrigyna, 122
- Porterpygus kieri*, 32
- Porzana*
pusilla affinis, 55
tabuensis plumbea, 55
- Potamogeton pectinatus*, 53
- Potamopyrgus*
cresswelli, 67
dawbini, 67
gardneri, 67
manneringi, 67
pupoides, 100
subterraneus, 67
troglydytes, 67
- Pounamuella*
australis, 81
complexa, 122
bauroko, 122
hollowayae, 122
insula, 122
kuscheli, 122
ramsayi, 122
vulgaris, 81
- “Powellaoma”
 “arandi”, 60
 “gigantea”, 86
 “peninsularis”, 86
 “stewartensis”, 130
- Powelliphanta*
 “Anatoki Range”, 35
 annectens, 47

Powelliphanta (continued)

“Baton”, 35
“Buller River”, 42
“Egmont”, 86
fiordlandica, 46
fletcheri, 81
gagei, 33
“Garibaldi”, 86
gilliesi
 aurea, 41
 brunnea, 33
 compta, 46
 fallax, 51
 gilliesi, 41
 “Haidinger”, 35
 “Heapy”, 42
 jamesoni, 41
 kaburangica, 41
 montana, 41
 subfusca, 51
“Gunner River”, 42
“Haast”, 52
hochstetteri
 anatokiensis
 red form, 41
 yellow form, 41
 bicolor, 51
 consobrina, 51
 hochstetteri
 brown based, 51
 yellow based, 51
 obscura, 51
“Kirwans”, 86
lignaria
 johnstoni, 41
 lignaria, 46
 lusca, 46
 “millertoni”, 35
 oconnori, 46
 rotella, 41
 ruforadiata, 41
 unicolorata, 46
“Lodestone”, 86
marchanti, 47
“Matakitaki”, 86
“Matiri”, 86
“Maungaharuru”, 42
“Mt Augustus”, 35
“Nelson Lakes”, 86
“Owen”, 42
“Paparaoas”, 86
“Parapara”, 42
“patrickensis”, 42
rossiana
 “Fox”, 86
 rossiana, 41
spedeni
 lateumbilicata, 81

spedeni, 47
superba
 “Gouland Range”, 42
 harveyi, 41
 mouatae, 41
 prouseorum, 41
 richardsoni, 41
 superba, 47
traversi
 florida, 41
 koputaroa, 41
 latizona, 41
 otakia, 33
 tararuaensis, 41
 traversi, 41
“Urewera”, 47
“vittatus”, 86
“Waitotara”, 130
Praolepra sp. “Poor Knights”, 86
Prasmiola unica, 33
Prasonica
 discolor, 122
 plagiata, 122
Prasophyllum aff. *patens*, 46
Pratia
 aff. *angulata*, 37
 aff. *macrodon*, 134
Predaea sp., 69
prickly deepsea skate, 101
prickly shark, 56
Priolepis psygmpophilia, 70
Procellaria
 aequinocialis, 65
 cinerea, 49
 parkinsoni, 65
 westlandica, 65
Procelsterna cerulea albivittata, 65
Procyrnea kea, 122
Proditrix chionochloae, 81
Prodontria
 bicolorata, 41
 grandis, 59
 jenniferae, 81
 lewisii, 41
 longitarsus, 81
 matagouriae, 59
 minuta, 59
 modesta, 81
 patricki, 122
 pinguis, 81
 rakiurensis, 81
 regalis, 81
 setosa, 81
 sp. “Ben Ohau”, 130
 sp. “Five Rivers”, 130
 sp. “Nevis”, 130
 truncata, 81

- Profundisepta*
 sp. A, 75
 sp. B, 75
Proleptonchus saccatus, 122
Promynoglenes
grandis, 59
miniscula, 122
minuta, 122
nobilis, 59
parvula, 122
silvestris, 59
Pronucula kermadecensis, 73
Propolis desmoschoeni, 50
Prorhynchus
baswelli, 56
putealis, 56
Prosthemadera novaeseelandiae
chathamensis, 38
Protoerigone
obtusa, 81
otagoa, 122
Protoflammulina jobnsi, 81
Protosynaema sp. "olearia", 42
Prototroctes oxyrhynchus, 26
Provocator mirabilis, 50
Pseudafroneta
frigida, 81
incerta, 59
lineata, 122
maxima, 122
pallida, 59
perplexa, 59
prominula, 122
Pseudaneitea
campbellensis, 81
buttoni, 81
multistriata, 81
pallida, 81
ramsayi, 33
sorenseni, 81
 sp. 1, 86
 sp. 4, 86
 sp. 5, 86
 sp. 6, 86
 sp. 7, 86
Pseudobelops
antipodensis, 34
capitalis, 81
chathamensis, 81
clandestinus, 41
liberalis, 81
posticalis, 81
quadricollis, 81
tuberculatus, 81
Pseudobryopsis planktonica, 101
Pseudocarcharias kamoharai, 102
Pseudocephalozia lepidozoioides, 55
Pseudoclitarchus sentus, 81
 "Pseudocoremia" *cineracia*, 51
Pseudocoremia
albafasciata, 122
fluminea, 59
lutea, 122
 sp. "knobby", 42
Pseudoconesius haasti, 30
Pseudognaphalium (a), 27
Pseudolophocolea denticulata, 66
Pseudopanax
 aff. *lessonii*, 98
chathamicus, 95
ferox, 62
gilliesii, 95
kermadecensis, 95
laetus, 53
macintyreii, 62
 "Pseudophrixgnathus" "aff. *elevata*",
 130
Pseudotriakis microdon, 102
Psilochorema
foliobarbax, 100
spiniharbax, 30
Psilosiphon scoparium, 69
Pteria
avicula, 73
 sp., 75
Pteris aff. *macilentata*, 98
Pterocladia lindaueri, 69
Pterodroma
axillaris, 38
cervicalis, 65
cookii, 49
inexpectata, 65
lessonii, 65
magentae, 28
neglecta, 38
pycrofti, 65
Pterostylis
 aff. *graminea*, 134
auriculata, 133
cernua, 62
irwintii, 133
micromega, 36
paludosa, 48
porrecta, 133
silvicultrix, 95
Ptychanthus stephensoniana, 29
Ptychodon blacki, 81
Puccinellia
raroiflorens, 36
walkeri
 subsp. *antipoda*, 95
 subsp. *chathamica*, 36
 subsp. *walkeri*, 95
Puccinia
embergeriae, 31
freycinetiae, 31

- Puffinus*
assimilis
elegans, 65
aurakiensis, 65
kermadecensis, 65
bulleri, 65
carneipes, 49
griseus, 49
buttoni, 38
pacificus, 65
Pumilus antiquatus, 39
Punctidae
sp. 1, 86
sp. 2, 86
sp. 3, 86
sp. 4, 130
sp. 5, 86
sp. 6, 35
sp. 7, 86
sp. 8, 86
sp. 9, 87
sp. 10, 87
sp. 11, 87
sp. 12, 42
sp. 13, 130
sp. 14, 130
sp. 15, 87
sp. 16, 87
sp. 17, 87
sp. 18, 87
sp. 19, 130
sp. 20 (“*Microlaoma*” “*unicolorata*”),
42
sp. 21, 87
sp. 22, 87
sp. 23, 87
sp. 25, 87
sp. 26, 131
sp. 27, 35
sp. 28, 87
sp. 29, 87
sp. 30, 131
sp. 31, 131
sp. 32, 131
sp. 33, 131
sp. 34, 87
sp. 35, 131
sp. 36, 131
sp. 37, 131
sp. 38, 87
sp. 39, 87
sp. 40, 87
sp. 41, 87
sp. 42, 87
sp. 43, 87
sp. 44, 131
sp. 63, 87
sp. 64, 42
sp. 66, 131
sp. 68, 87
sp. 75, 87
sp. 111, 131
sp. 121, 87
sp. 170, 131
sp. 173, 87
sp. 176, 87
sp. 182, 87
sp. 189, 87
sp. 194, 87
sp. 209, 131
sp. 218, 131
sp. 219, 87
sp. 226, 35
sp. 231, 87
sp. 233, 131
sp. 244, 87
sp. 248, 131
sp. 249, 131
sp. 252, 87
sp. 253, 87
sp. 256, 87
sp. 267, 87
sp. 268, 131
sp. 269, 131
sp. 270, 131
Punctifera opbiomoerae, 73
Puncturella sp., 75
Purpurocardia reinga, 73
Pusillina wallacei, 73
Pycroft’s petrel, 65
pygmy beaked whale, 103
pygmy right whale, 102
pygmy sperm whale, 103
Pyramidelloides suteri, 73
Pyramodon ventralis, 70
Pyrgotis
sp. “olearia”, 46
transfixa, 81
Pyroderces sp. “yellow”, 131
Pyrophyllon cameronii, 69
Pyrrhobryum paramattense, 66
Q
Quadriceps
coenocoryphae, 81
dominella, 34
novaeseelandiae, 34

R

- Rachelia glaria*, 95
Racomitrium crumianum, 66
Radopholus cavenessi, 34
Radula
 aff. cordiloba “Raoul Island”, 66
 aff. retroflexa, 100
 “big Dave”, 100
 javanica, 66
 papulosa, 39
 parviretis, 99
 ratkowskiana, 55
 sp., 100
Rallicola (Aptericola)
 gadowi, 51
 gracilentus, 52
 pilgrimi, 81
 rodericki, 34
Rallicola (Rallicola) takabe, 34
Ramaria
 aureorbiza, 31
 avellaneovortex, 31
 basirobusta, 31
 junquilleovortex, 31
 piedmontiana, 31
Ramariopsis
 avellanea, 31
 avellaneoinversa, 31
 tortuosa, 31
Ranfurlya
 constanceae, 81
 “meadsii”, 131
Rangitata peelensis, 122
Rangitata skink, 103
Ranunculus
 (a), 37
 aff. reflexus, 134
 aff. royi, 37
 aff. stylosus, 44
 (b), 54
 brevis, 95
 (c), 134
 godleyanus, 95
 grahamii, 95
 baastii subsp. *piliferus*, 95
 kirkii, 95
 limosella, 53
 macropus, 53
 maculatus, 62
 mirus, 95
 pinguis, 95
 recens
 var. *lacustris*, 95
 var. *recens*, 53
 scribalis, 95
 simulans, 62
 stylosus, 95
 subscaposus, 95
 ternatifolius, 46
 viridis, 95
Raoulia
 (a), 134
 aff. bryoides, 98
 aff. bookeri, 54
 beauverdii, 62
 (c), 63
 cinerea, 95
 goyenii, 95
 hectorii var. *mollis*, 95
 monroi, 53
 petriensis, 95
 rubra, 95
Rapua australis, 122
Rastodens electra, 73
Raukaua edgerleyi, 53
Rectolejeunea
 denudata, 99
 ocellata, 55
 sp., 56
red-billed gull, 49
red-tailed tropicbird, 65
redband weever, 101
reef heron, 45
Reinga
 apica, 122
 aucklandensis, 122
 grossa, 123
 media, 123
 waitpoua, 123
Reischek’s parakeet, 64
“Rengakora” “*aff. microreticulata*”, 87
Rhantus
 plantaris, 30
 schauinslandi, 30
Rhaphidophoridae sp. “Poor Knights”,
 131
Rhigonema zealandica, 123
Rhododrilus
 aduncocystis, 123
 agathis, 123
 albidus, 123
 aquaticus, 123
 attenuatus, 123
 benbami, 123
 besti, 123
 cockaynei, 123
 disparatus, 123
 dobsoni, 123
 edulis, 123
 buttoni, 123
 insularis, 123
 intermedius, 123
 kermadecensis, 123
 leptomerus, 123
 macroseptus, 123

- Rhododrilus* (continued)
microgaster, 123
minimus, 123
minutus, 123
?monticola, 131
papaensis, 123
parvus, 123
ravus, 123
robustus, 123
rosae, 123
sexpapillatus, 123
similis, 123
subtilis, 123
sutherlandi, 123
tetratheca, 123
- Rhopalostylis*
aff. sapida, 44
cheesemantii, 95
- Rhypodes brevipilis*, 123
- Rhyssoplax exasperata*, 73
- Rhytida*
greenwoodi webbi, 46
oconnori, 34
stephenensis, 52
“Wairau River”, 87
- Rhytidarex*
buddlei, 34
johnsoni, 81
- Riccardia*
aff. pallidevirens, 30
furtiva, 66
intercellula, 29
multicorpora, 55
pennata, 66
pseudodendroceros, 29
umida, 30
- Riccardoella* (*Proriccardoella*)
novaezealandiae, 81
- Riccia fluitans*, 99
- Ricciocarpos natans*, 39
- Richardson’s skate, 101
- Rimulanax* sp., 75
- Rinawa*
bola, 123
cantuaria, 123
otagoensis, 123
pula, 123
- robust skink, 76
- rock wren, 45
- “Rohopapa” “cassensis”, 87
- Rokopella* sp., 102
- Rorea*
aucklandensis, 81
otagoensis, 123
- Rorippa divaricata*, 43
- “Roscoepunctum”
“elworthyi”, 131
“embertoni”, 87
- “Mt Duppa”, 131
“Silverstream”, 87
“sutherlandi”, 131
“Takaka Hill”, 131
- Rotadiscus*
“aff. jamiesoni”, 131
“aff. urquharti”, 87
“aff. urquharti Southland group”, 60
insularis, 81
protoinsularis, 82
- Rotylenchus*
kabikateae, 123
labiodiscus, 123
nelsonensis, 123
- rough-backed cat shark, 102
- rough gecko, 50
- round batfish, 56
- roundhead galaxias, 49
- Roys Peak gecko, 103
- Ruamowhitia orae*, 123
- Ruapukea carolus*, 73
- Rubus* *aff. schmidelioides*, 98
- Rumex neglectus*, 95
- Runga*
akaroa, 123
flora, 123
moana, 123
raroa, 82
- Russula*
inquinata, 31
littoralis, 31
miniata, 31
papakaitensis, 31
pleurogena, 31
solitaria, 31
vivida, 31
- Rytidosperma*
merum, 62
nudum, 95
petrosum, 95
tenue, 134
- S**
- Sabatinca* sp. “Secretary Island”, 35
- Saemundssonina* (*Puffinoecus*) sp., 35
- Saemundssonina* (*Saemundssonina*)
chathamensis, 34
- Saganoa*
inflata, 67
mica, 67
- Salticus*
albobarbatus, 124
albopalpis, 124
alpinus, 124
appressus, 124
atratus, 124
curvus, 124
fumosus, 124

- Salpicus* (continued)
furvus, 124
mustilinus, 124
phrinoides, 124
tabinus, 124
tenebricus, 124
vnotatus, 124
zanthofrontalis, 124
Salvin's mollymawk, 45
Samana acutata, 59
Sarcosoma orientale, 31
Sargassum johnsonii, 69
Sargeant bakers, 70
Saropogon
chathamensis, 82
"rereke", 131
Scaevola gracilis, 95
Scandia rosifolia, 62
Scapania
cf. *nemorosa*, 100
cf. *undulata*, 100
Scelodolichus sp. "Poor Knights", 87
Sceloglaux albifacies, 26
Schiffermuelleria orthophanes, 41
Schistochila
nitidissima, 66
pellucida, 30
pluriciliata, 30
Schizaea dichotoma, 62
Schizeilema
(a), 95
allanii, 133
pallidum, 62
reniforme, 95
Schizoglossa
gigantea, 34
worthyae, 59
Schoenus
carsei, 53
fluitans, 95
Sciacharis yakasensis, 124
Sciadiocara tarapunga, 124
Scissurella fairchildi, 73
Scolecoplepides freemani, 67
Scoletoma lynnei, 102
scorpionfish, 70
Scorpiurium cucullatum, 30
Scotospilus
divisa, 124
nelsonensis, 124
plena, 124
westlandica, 124
scree skink, 51
Scutellaria novae-zelandiae, 46
Scymnodalantias
albicauda, 57
sberwoodi, 57
Scymnodon cf. *ringens*, 102
Scythris sp. "stripe", 35
Sebaea ovata, 36
Sebdenia lindaueri, 101
Sectonema sica, 124
Seimatosporium sp., 50
Selastele
kopua, 73
limatulum, 73
onustum, 73
Setigeria diminuta, 39
Selliera rotundifolia, 53
Semo harrisi, 59
Senecio
carnosulus, 62
dunedinensis, 62
glaucophyllus
subsp. *basinudus*, 96
subsp. *glaucophyllus*, 95
bauwai, 96
kermadecensis, 43
lautus var. *esperensis*, 96
marotiri, 62
radiolatus
subsp. *antipodus*, 96
subsp. *radiolatus*, 96
repangae
subsp. *pokobinuensis*, 96
subsp. *repangae*, 62
scaberulus, 43
sterquilinus, 96
Seppeltia succuba, 30
"Sericoconcha" "kuscheli", 87
Sericospilus minor, 124
Serpho matthewsi, 82
Serrata
raoulica, 73
sp. A, 75
"Serratopunctum" "lutulentus", 87
sharpnose sevengill shark, 56
Shepherd's beaked whale, 103
Sherwood's dogfish, 57
Shinkailepas sp., 75
shortjaw kokopu, 56
Sicyos
aff. *australis*, 48
australis, 36
Sidymella benhami, 124
Sigaos
childi, 41
bomerenensis, 34
minutus, 52
obelisci, 82
"Remarkables", 87
sp. A, 47
takabe, 82
Simplicia
buchananii, 96
laxa, 43

Sinbad skink, 103
Sinezona pacifica, 73
Sinployea
 “fiordlandica”, 60
 “Hikurangi”, 60
 “Ohinepoutea”, 131
 “parvaformis”, 131
Sipblaenigma janae, 100
Siphonolejeunea “rock”, 39
 sixgill shark, 56
Skeneoides sp., 75
 small-eared skink, 76
 small-scaled skink, 47
 smalltooth sand tiger, 57
Smeagol
 climoi, 73
 manneringi, 73
 smooth deepsea skate, 101
 smooth lantern shark, 56
 Snares Cape petrel, 64
 Snares crested penguin, 64
 Snares Island fernbird, 64
 Snares Island snipe, 64
 Snares Island tit, 65
Solanum aviculare f. *latifolium*, 62
Solariella
 sp. A, 75
 sp. B, 75
 sp. C, 75
Solatisonax aff. *alleryi*, 75
 sole, 70
Solecurtus sp., 75
Somniosus
 antarcticus, 57
 rostratus, 102
Sonchus kirkii, 53
Sonderopelta coriacea, 69
 sooty shearwater, 49
Sophora
 fulvida, 53
 longicarinata, 96
 molloyi, 96
 southern bottlenose whale, 103
 southern Buller’s mollymawk, 65
 southern elephant seal, 32
 southern falcon, 38
 southern forest gecko, 51
 southern little blue penguin, 49
 southern mini gecko, 76
 southern New Zealand dotterel, 28
 southern North Island southern short-tailed bat, 28
 southern North Island speckled skink, 40
 southern right whale, 39
 southern royal albatross, 64
 southern sculpin, 69
 southern skink, 57
 southern tokoeka, 49
 southern white-fronted tern, 49
 South Island brown teal, 28
 South Island fernbird, 55
 South Island kaka, 38
 South Island kokako, 26
 South Island piopio, 26
 South Island rifleman, 49
 South Island saddleback, 38
 South Island southern short-tailed bat, 38
 spade-toothed whale, 103
 speckled skink, 51
Spelungula cavernicola, 82
Spenceriella
 argillae, 124
 gigantea, 124
 pallida, 124
 shakespearri, 124
Sphagnum perichaetiale, 66
Sphenodon
 guntheri, 40
 punctatus
 “Cook Strait”, 76
 punctatus, 57
Sphenotrochus squiresi, 73
Spio aequalis, 32
Spiranthes aff. *novae-zelandiae*, 134
Spiritopora perplexa, 50
Spondylus
 ostreoides, 73
 raoulensis, 73
Sporadanthus
 ferrugineus, 96
 traversii, 96
 spotless crane, 55
 spottail seaperch, 70
 spotted skink, 51
 “Central Canterbury”, 40
 “Mackenzie Basin”, 51
 “South Marlborough”, 51
 spotted sole, 70
Sprengelia incarnata, 96
Squalus
 cf. *mitsukurii*, 102
 sp. 2, 102
 sp. 3, 102
 sp. 4, 102
 sp. 5, 102
Squamanita squarrulosa, 31
Stanwellia
 bipectinata, 124
 bapua, 82
 bollowayi, 124
 boubora, 124
 kaituna, 124
 media, 124
 puna, 82

- Stanwellia* (continued)
regia, 124
taranga, 82
tuna, 82
stargazer, 70
Stathmopoda
albimaculata, 41
aristodoxa, 59
campylocha, 34
endotherma, 124
sp. "olearia", 52
Steatoda nubilosa, 124
Steginoporella perplexa, 50
Stegostyla atradenia, 62
Stellaria
aff. *parviflora*, 98
decepiens
var. *angustata*, 96
var. *decepiens*, 96
latinoides, 27
Stenolejeunea acuminata, 39
Stenostachys
deceptorix, 96
laevis, 133
Stephanorhynchus insolitus, 41
Stephens Island wren, 26
Sterna
albostrigata, 38
caspia, 45
fuscata kermadeci, 49
nereis davisae, 28
striata
aucklandornata, 49
striata, 49
vittata bethunei, 65
Stethaspis
convexa, 124
pulchra, 124
Stewart Island fernbird, 38
Stewart Island robin, 38
Stewart Island shag, 45
Stewart Island snipe, 26
Stewart Island weka, 38
Sticherus flabellatus, 62
Stictocarbo featherstoni, 45
Stigmatopora
? *argus*, 57
macropterygia, 102
nigra, 102
Stigmella
laqueorum, 82
progamma, 124
propalaea, 124
sp. "blue", 131
sp. "giant", 131
sp. "October", 131
sp. "olearia", 35
sp. "traversia", 60
Stilapex sp., 75
Stilbocarpa
lyallii, 96
polaris, 96
robusta, 96
Stilifer sp., 75
stitchbird, 38
Stizocephalus brevirostris, 124
Stokellia anisodon, 67
Stokell's smelt, 67
Stolonivector
fiordlandiae, 66
waipouensis, 99
Stomatella oliveri, 73
strap-toothed whale, 103
Streblus
banksii, 62
smithii, 96
Strigops habroptilus, 28
striped skink, 103
Subantarctica
centralis, 124
dugdalei, 124
fiordensis, 124
florae, 124
muka, 124
penara, 124
stewartensis, 124
trina, 125
turbotti, 82
subantarctic clingfish, 70
subantarctic little shearwater, 65
subantarctic triplefin, 70
Succinea archeyi, 47
Sula dactylatra fullageri, 65
Sundaya exquisita, 73
Suterilla sp., 75
swell shark/banded carpetshark, 102
Sylovodrilus gravus, 125
Sympedius sp. "Chathams", 131
Sympycnus alchymicus, 125
Syncoryne reinkei, 101
Synema suteri, 125
Syrphetodes
sp. "Te Pahi", 60
sp. "Waipoua", 60
- ## T
- Taguabelix*
antipodensis, 82
campbellica, 82
delicatula, 82
hirsuta, 82
Taieria
erebus, 125
kaituna, 125
miranda, 125
obtusa, 125

taiko, 28
 takahe, 28
Takamangat waenga, 125
 Takitimus gecko, 103
Talabrica sp., 75
Talitropsis
 crassicurris, 82
 megatibia, 82
Tangarona pensus, 59
Tangata
 alpina, 125
 furcata, 125
 borningi, 82
 kobuka, 125
 muribiku, 125
 nigra, 125
 orepukiensis, 125
 otago, 125
 parafurcata, 125
 plena, 125
 pouaka, 125
 rakiura, 125
 stewartensis, 125
 sylvester, 125
 tautuku, 125
 townsendi, 125
 waipoua, 125
Tanytarsus sp., 87
Tararua
 celeripes, 125
 clara, 125
 diversa, 125
 foordi, 125
 puna, 125
 ratuma, 125
 versuta, 125
Tara taranaki, 82
 Tarnedale bully, 66
Tasmacetus shepherdii, 103
Tautukua isolata, 125
Tecomantbe spectosa, 36
Tectus royanus, 73
Tegulaplax sp., 75
 Te Kakahu skink, 103
Tekella
 bisetosa, 125
 unisetosa, 125
Telaranea
 aff. *pseudozoopsis*, 100
 exigua, 30
 plumulosa, 30
Temnoma angustifolium, 30
Tepakia caligata, 56
Tetrachondra hamiltonii, 48
Tetragnatha
 flavida, 125
 multipunctata, 125
 nigricans, 125
Tetragonia tetragonioides, 62
Tetrameres tarapungae, 125
Teucriidium parvifolium, 53
Textricella
 antipoda, 125
 aucklandica, 125
 insula, 82
 mcfarlanei, 125
 nigra, 125
 plebeia, 82
 propinqua, 125
 pusilla, 125
 signata, 125
 wisei, 82
Thalassarche
 bulleri, 65
 chrysostoma, 38
 eremita, 47
 impavida, 65
 nov. sp., 65
 salvini, 45
 steadi, 65
Thalassobelix
 antipoda, 82
 chathamensis, 82
 laingi, 82
Thambotricha vates, 59
Thaxterogaster cartilagineus, 31
Thectophila acmotypa, 125
Thelastoma meadsi, 126
Thelymitra
 (a), 37
 aff. *ixioides*, 63
 aff. *longifolia*, 134
 (b), 98
 (c), 98
 formosa, 62
 sanscilia, 36
 tholiformis, 62
Thelypteris confluens, 53
Theoxena
 scissaria, 41
 sp. "non-pectinate", 131
Therasia
 sp., 131
 sp. "chathamensis", 88
Therasiella
 "aff. *elevata*", 60
 "narrow umbilicus", 131
 pectinifera, 82
 sp. "Unuwahao", 88
Theridion
 albocinctum, 126
 ampliatum, 126
 argentatulum, 126
 cruciferum, 126
 flabelliferum, 126
 gibbosa, 126

Theridion (continued)
gracilipes, 126
longicrura, 126
prophyreticum, 126
pumilio, 126
punicapunctatum, 126
rufipes, 126
squalidae, 126
viridana, 126
Tbinornis novaeseelandiae, 28
Tbismia rodwayi, 62
Tboristella polychroma, 73
Tbotmus balli, 26
Three Kings bellbird, 64
Three Kings gecko, 76
Three Kings skink, 76
Thysanodonta sp., 75
tieke, 38, 65
Timmia norvegica, 66
“*Tinea*” *texta*, 126
Tineidae
n. sp. “Hicks Bay stripe”, 131
n. sp. “Matuku monster”, 131
Tingena loxotis, 126
Tiphobiosis
childella, 67
binewai, 30
kuscheli, 30
quadrifurca, 30
schmidi, 30
trifurca, 30
Titanomis sisyrota, 34
titi, 49
Tmesipteris
aff. *tannensis*, 37
sigmatifolia, 62
Tmetolophota blenbeimensis, 59
Todea barbara, 43
Tornatellides subperforatus
kermadecensis, 126
Tornatellinops iredalei, 126
toroa, 45, 64
Tortella mooreae, 66
Tortula
mucronifolia, 66
viridipila, 66
Townsonia deflexa, 62
Toxopsiella
alpina, 126
australis, 126
centralis, 126
dugdalei, 126
borningi, 82
lawrencei, 126
medialis, 126
minuta, 126
nelsonensis, 126
orientalis, 126
parrotti, 126
perplexa, 126
Toxopsoides buttoni, 126
Trabeculus flemingi, 41
Trachypepla
cyphonias, 59
nimbosa, 126
roseata, 34
sp. “Cloudy Bay”, 131
Traillochorema rakiura, 67
Traversia
baccharoides, 63
lyalli, 26
Treubia aff. *tasmanica*, 100
Triamescaptor aotea, 82
Triandrophyllum symmetricum, 100
triangle batfishes, 102
Trichocomaceae, 31
Trichomanes
(AK 252983; Kerikeri), 37
colensoi, 63
Trichostomum imshaugii, 99
Tricleocarpa cylindrica, 69
Triglochin palustris, 43
Trilepidea adamsii, 27
Tripterygion jenningsi, 70
Trisetum
aff. *lepidum*, 37
antarcticum, 53
drucei, 63
serpentinum, 96
Trissonchulus littoralis, 126
Trite
herbigrada, 126
mustilina, 126
parvula, 126
urvillei, 126
Trophon subtropicalis, 73
Truncatella sp., 50
Tuakana
mirada, 126
wiltoni, 126
Tubuaia raoulensis, 126
Tugali sp., 75
Tupeia antarctica, 53
Turbinellid sp., 75
Turbottoplectron unicolor, 82
Turnagra
capensis, 26
tanagra, 26
Turretia dugdalei, 126
Tursiops truncatus, 75
“offshore”, 103
tuturuatu, 28
two stripe seaperch, 70
Tychanopais
sp. “Poor Knights”, 88
tuberosus, 59

U

- Umbonichiton*
- adelus*, 126
- jubatus*, 126
- pellaspis*, 126
- Unas piceus*, 126
- Uncinia*
- elegans*, 63
- longifructus*, 63
- perplexa*, 37
- purpurata*, 63
- sinclairii*, 63
- strictissima*, 43
- viridis*, 63
- upland longjaw galaxias, 49
- Uredo*
- chathamica*, 31
- salicorniae*, 31
- Urtica*
- aspera*, 63
- linearifolia*, 53
- Utricularia*
- australis*, 53
- delicatula*, 53

V

- velvet dogfish, 57
- Vema* sp., 102
- Verrucidens turpis*, 66
- “Vicariodiscus”
- “charopiformis”, 60
- “cresswelli”, 131
- Viktorocara torea*, 126
- Viridictyna*
- australis*, 127
- kikkawai*, 127
- nelsonensis*, 127
- parva*, 127
- picata*, 127
- Vittadinia australis*, 133
- Volcanolepas osbeai*, 32
- Volvariella surrecta*, 31

W

- Wahlenbergia*
- akaroa*, 96
- albomarginata*
- subsp. *flexilis*, 96
- subsp. *olivina*, 96
- cartilaginea*, 96
- congesta*
- subsp. *congesta*, 63
- subsp. *baastii*, 98
- matthewsii*, 96

- pygmaea*
- subsp. *drucei*, 96
- subsp. *tararua*, 37

- Wainuia*
- clarki*, 41
- edwardi*, 52
- “Fiordland”, 60
- “Mount Oxford”, 52
- “Mount Tuhua”, 35
- “Umbrella Range”, 131
- urnula nasuta*, 52
- Waiporia*
- algida*, 127
- chathamensis*, 82
- egmont*, 127
- extensa*, 127
- haweia*, 127
- bornabrooki*, 127
- mensa*, 127
- modica*, 127
- owaka*, 127
- ruabine*, 127
- tuata*, 127
- wiltoni*, 127
- Waipoua*
- gressitti*, 82
- bila*, 127
- insula*, 127
- montana*, 127
- otiana*, 127
- ponanga*, 127
- toronui*, 127
- totara*, 127
- Wairua*
- reinga*, 127
- waikanae*, 127
- Waitetola buttoni*, 127
- Waterea cornigera*, 127
- wedge-tailed shearwater, 65
- Wellington green gecko, 50
- West Coast green gecko, 57
- western weka, 47
- Westland petrel, 65
- weweia, 55
- whio, 38
- Whirinaki skink, 103
- Whitaker’s skink, 45
- white-bellied storm petrel, 64
- white-capped (formerly shy)
- mollymawk, 65
- white-capped noddy, 64
- white-chinned petrel, 65
- white-flipped penguin, 45
- white-fronted tern, 49
- white-headed petrel, 65
- white-naped petrel, 65

white heron, 28
whitetail dogfish, 57
white tern, 28
Willia calobolax, 99
Wiltonia
 elongata, 127
 eylesi, 127
 fiordensis, 127
 graminicola, 127
 lima, 127
 nelsonensis, 127
 pecki, 127
 porina, 127
 rotoiti, 127
wreckfish, 102
wrybill, 45

X

Xanthorhoe
 bulbulata, 34
 frigida, 41
 lophogramma, 59
Xenicus
 gilviventris, 45
 longipes, 26
Xenograpsus sp., 75
Xenothallus vulcanicus, 30
Xeronema callistemon
 f. *bracteosa*, 96
 f. *callistemon*, 96
Xiphinema waimungui, 127
Xylaria
 wellingtonensis, 31
 zealandica, 31
Xylochus
 dentipes, 82
 spinifer, 82
 triregius, 82
Xyloplax medusifformis, 32
Xylotoles costatus, 34

Y

yellow-crowned kakariki, 49
yellow-eyed penguin, 45
yellow boarfish, 57
yellow goby, 70
yellowhead, 38

Z

Zafra
 fuscolineata, 73
 kermadecensis, 73
Zameus squamulosus, 57
Zeadelium
 aeratum, 59
 arthurense, 82
 australe, 82
 chalmeri, 59
 femorale, 82
 budsoni, 82
 lentum, 82
 parvum, 82
 senile, 82
Zealanapis
 conica, 127
 insula, 127
 kuscheli, 127
 matua, 127
 montana, 127
 otago, 127
 punta, 127
 waipoua, 127
Zealoctenus cardronaensis, 34
Zearchaea fiordensis, 127
Zecillenius tillyardi, 34
Zelandiscus
 elevata, 27
 “innubilis”, 131
 worthyi, 127
Zeldia punua, 128
Zeopoecilus
 “D’Urville Island-Squally Cove”, 131
 “Pupu Springs”, 88
 “Stephens Island”, 88
Ziphius cavirostris, 103
Zomedes borealis, 82
Zoopsis
 “Croesus Track”, 66
 nitida, 45
 “Rata Peak”, 66
Zosteria novazealandica, 128
Zotovia acicularis, 133
Zygoceras tropidophora, 73
Zygodon rufescens, 55