

Te Tai Toka Southern NZ

PUKA ĀRAHI MŌ TE TAPĀTAI ONE SANDY & MUDDY SHORE GUIDE

He puka ārahi mō kā tini o Takaroa ka
noho ki kā tapātai one o te Tai Toka.

Common animals and plants living on the sandy
and muddy seashores of southern New Zealand.



NEW ZEALAND
MARINE STUDIES CENTRE
UNIVERSITY OF OTAGO



COASTAL PEOPLE :
SOUTHERN SKIES

Centre of Research Excellence

KŌTORE MOANA

ANEMONES

RORI

SEA CUCUMBER



Kōtore
Burrowing Anemone
Edwardsia neozelanica
20 mm



Kōtore
Mudflat Anemone
Anthopleura hermaphroditica
20 mm



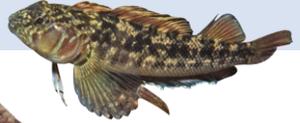
Rori
Burrowing Sea Cucumber
Taeniogyrus dunedinensis
50 mm

IKA

FISH



Toro
Banded Stargazer
Kathetostoma binigrasella
450 mm



Estuarine Triplefin
Forsterygion nigripenne
90 mm



Whaiwhai / Pātiki
Sand Flounder
Rhombosolea plebeia
430 mm



Pātiki Rori
Sole
Peltorhamphus spp.
350 mm

PĀPAKA

CRABS



Pāpaka
Stalk-eyed Mud Crab
Hemiplax hirtipes
35 mm



Pāpaka
Paddle Crab
Ovalipes catharus
150 mm



Kairau
Tunnelling Mud Crab
Austrohelice crassa
20 mm



Pāpaka
Hairy-handed Crab
Hemigrapsus crenulatus
40 mm



Waera
Estuarine Pillbox Crab
Halicarcinus whitei
10 mm

mm 10 20 30 40 50 60 70 80 90 100 110 120 130 140

AKARUA BIVALVES



Nut Shell
Linucula hartvigiana
8 mm



Tāwera Morning Star Shell
Tawera spissa
25 mm



Tuaki / Tuangi / Hūai Cockerle / Little-neck Clam
Austrovenus stutchburyi
50 mm



Kuhakuha Small Dog Cockerle
Glycymeris modesta
30 mm



Takarepo Sunset Shell
Gari convexa
60 mm



Hahari Oblong Venus Clam
Venerupis largillierti
60 mm



Karoro Ribbed Venus Clam
Leukoma crassicosta
45 mm



Tuaki Haruru Venus Clam
Dosinia anus
80 mm



Kaikaikaroro Triangular Trough Clam
Crassula aequilatera
70 mm



Kaikaikaroro Surf Clam
Spisula murchisoni
90 mm



Whāngai karoro Large Trough Clam
Spisula discors
90 mm



Pipi / Kōkota / Angarite Pipi
Paphies australis
60 mm



Tuatua Southern Tuatua
Paphies donacina
90 mm



Toheroa / Moeone
Paphies ventricosa
110 mm



Feeding mark



Hanikura Wedge Shell
Macomona liliana
55 mm



Tio Para Bluff Oyster
Ostrea chilensis
80 mm

KŌURAURA ME KĀ URI TATA

SHRIMPS & HOPPERS



Burrows

Potipoti
Burrowing Amphipod
Paracorophium excavatum
3 mm



Mōwhitiwhiti / Potipoti / Mōwhiti
Sandhopper
Bellorchestia spp.
14 mm

Kutu Moana
Isopod
Scyphax ornatus
10 mm



Kōwhitiwhiti Moana
Snapping Shrimp
Alpheus richardsoni
65 mm



Burrow entrance and exit

Tarawera
Ghost Shrimp
Filholianassa filholi
60 mm



Burrow opening

Tarawera
Mantis Shrimp
Heterosquilla tricarinata
75 mm

Toa
Male



Uwha
Female

Tarawera
Sand Shrimp
Philocheras australis
40 mm



PŪPŪ & KĀKIHI

SNAILS & LIMPETS



Pūpū
Topshell
Micrelenchus huttonii
5 mm

Titiko / Karahū / Karehu / Koriakai
Mud Snail
Amphibola crenata
30 mm



Koeti
Horn Snail
Zeacumantus subcarinatus
15 mm



Kākihi / Piritoka
Estuarine Limpet
Notoacmea scapha
11 mm



Kota
Wheel Snail
Zethalia zelandica
22 mm



Ngaere
Necklace Shell
Tanea zelandica
33 mm



Whētiko
Mudflat Topshell
Diloma subrostrata
25 mm



Totorere
Large Ostrich Foot
Struthiolaria papulosa
80 mm



Tākai
Ostrich Foot
Pellicaria vermis
40 mm



Kāwari
Mudflat Whelk
Cominella glandiformis
25 mm



Totorere / Papatai
Turret Shell
Maoricolpus roseus
80 mm



Kōrīre
Small Turret
Stiracolpus symmetricus
15 mm



Pūpū Rore
Arabic Volute
Alcithoe arabica
100 mm

NOKE MOANA WORMS



Feecal casts

**Noke Moana
Lugworm**
Abarenicola affinis
100 mm



**Noke Moana
Cockle Shell Worm**
Boccardia acus
20 mm



**Noke Moana
Bamboo Worm**
Family Maldanidae
130 mm



Feecal casts

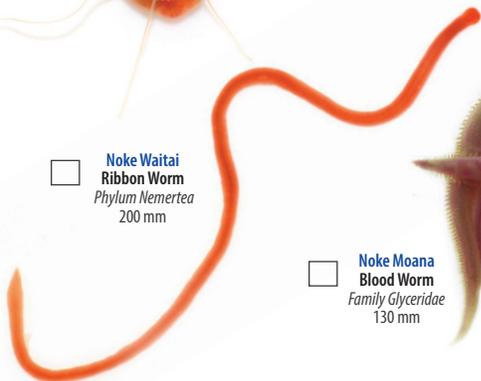
**Noke Moana
Spaghetti Worm**
Family Terebellidae
40 mm



Cirratulid Worm
Family Cirratulidae
100 mm



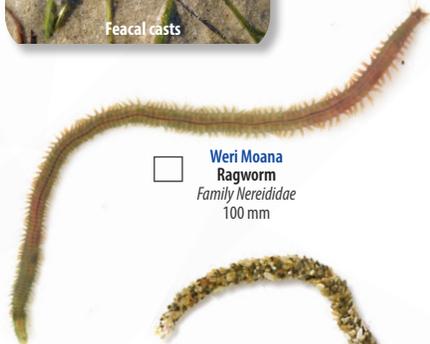
**Noke Waitai
Ribbon Worm**
Phylum Nemertea
200 mm



**Noke Moana
Blood Worm**
Family Glyceridae
130 mm



**Weri Moana
Ragworm**
Family Nereididae
100 mm



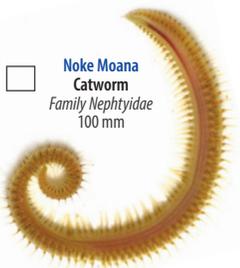
**Noke Waitai
Oweniid Worm**
Family Oweniidae
45 mm



**Noke Moana
Opheliid Worm**
Thoracophelia
35 mm



**Noke Moana
Catworm**
Family Nephtyidae
100 mm



**Noke Moana
Polychaete Worm**
Family Orbiniidae
100 mm



TIOTIO BARNACLES



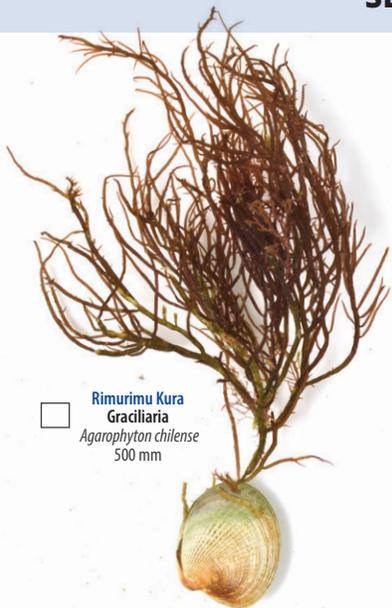
Attached to cockles



**Tio Piripiri
Estuarine Barnacle**
Austrominius modestus
5 mm

RIMURIMU & DIATOMS

SEAWEED & DIATOMS



Rimurimu Kura
Gracilaria
Agarophyton chilense
500 mm



Rimu
Sea Lettuce
Ulva spp.
300 mm



Rimurimu Kura
Filamentous Red
Polysiphonia spp.
150 mm

Spume (Diatom matter)



Benthic Diatom
(green scum)



DRIFT



Barrel Shrimp inside a Salp
Phronima sp.
40 mm



Ihumoana / Katiaho
Blue Bottle Jellyfish
Physalia physalia
150 mm



Werewere
Pelagic Barnacles
Lepas anatifera
40 mm



Kelp Air Bladder
Macrocystis pyrifera

OTAOTA PLANTS



Karepō / Nana
Eelgrass
Zostera muelleri
300 mm



Pikao
Ficinia spiralis
900 mm



Ureure
Glasswort
Sarcocornia quinqueflora
150 mm



**Waiū Atua /
Waiū-o-Kahukura**
Shore Spurge
Euphorbia glauca
500 mm



Otaota
Marram Grass
Ammophila arenaria
1200 mm



Waiwi
Sea Rush
Juncus kraussii var. *australiensis*
1200 mm



Rūpene
Tree Lupin
Lupinus arboreus
1500 mm



Oioi
Jointed Wire Rush
Apodasmia similis
1500 mm



Waiwi
Knobbly Clubrush
Ficinia nodosa
1500 mm



KIA TIAKINA KĀ TINI O TAKAROA

SHOW RESPECT FOR SEASHORE CREATURES



- ☆ Āta hiko
Tread carefully.
- ☆ Waiho atu kā tini o Takaroa
Leave creatures where you found them.
- ☆ Waiho atu kā rimurapa kua piri ki kā toka
Leave attached seaweed in place.
- ☆ Kia kāwari tō pā atu ki kā tini o Takaroa – pātata atu ki te whenua me ō rīkarika māku
Handle creatures with care - close to the ground with wet hands.
- ☆ Kia āta whakahoki kā toka ki ō rātau wāhi tika
Carefully put rocks back to the same position you found them.
- ☆ Kauraka e rahi tō kohikohi aka, he kāika kē mō ētahi atu tini o Takaroa
Limit your collection of empty shells as other creatures use them as homes.

KIA KAHA KIA KAURAKA E RAWEKE I KA TINI O TAKAROA

AVOID DISTURBING WILDLIFE



- 👁️ Me noho tawhiti koe i kā manu me kā penu
Keep your distance from seabirds including penguins.
- 👁️ Me noho tawhiti koe i kā pakake me kā whakahao
Keep your distance from seals and sea lions.
- 👁️ Whakamahia ō karu toro me tō kāmera ki te titiro pātata
Use the zoom on your camera or binoculars for close viewing.
- 👁️ Ki te pātata atu kā whakahao ki a koe – āta neke whakamuri
If sea lions approach you - back away slowly.
- 👁️ Kia mauri tau tāu kuri
Keep dogs under control.

KIA TŪPATO, KIA TIKA HOKI TŌ MAHI

BE CAREFUL AND KEEP SAFE



- 🌊 Me aro atu ki kā tai timu, tai pari
Check tide times to avoid being cut off by rising tide.
- 🌊 Kauraka koe me tō kotahi e toro atu ki te akau toka
Do not explore the seashore alone.
- 🌊 Me aro atu koe ki kā tohu o te raki me Tawhirimātea
Watch for changing weather.
- 🌊 Kia mataara ki kā karu – kauraka e huri tuarā atu i a Takaroa
Look out for waves - never turn your back to the ocean.
- 🌊 Kia tūpato ki kā wāhi māeneene, ki kā toka titaha hoki
Soft mud can be dangerous. If you start to sink turn back.
- 🌊 Haria atu kā para ka kimihia ki te akau, whiua ki te ipu para kē
Pick up any rubbish found on the shore and dispose of it appropriately.

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Whanau, hapū, and iwi may have their own names of the species in their area. Any regional variations or corrections, please email marine-studies@otago.ac.nz