

Te Tai Toka Southern NZ

PUKA ĀRAHI MŌ TE ĀKAU TOKA

ROCKY SHORE GUIDE

He puka ārahi mō kā tīni o Takaroa ka noho
ki kā akau toka o te Tai Toka.

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



NEW ZEALAND
MARINE STUDIES CENTRE
UNIVERSITY OF OTAGO



COASTAL PEOPLE :
SOUTHERN SKIES

Centre of Research Excellence

KŌTORE MOANA

ANEMONES



Kōtore
Tide Pool Anemone
Anthopleura hermaphrodita
30mm



Kōtoretore / Tou
Red Beadlet Anemone
Actina tenebrosa
40mm



Kōtore
Jewel Anemone
Corynactis australis
10mm



Kōtore
White Striped Anemone
Anthothoe albocincta
20mm



Humenga Kōwhai
Olive Anemone
Isactinia olivacea
25mm

KŌPŪPŪTAI

SPONGES



Pūngorongoru
Encrusting Sponge
Halichondria spp.



Porotaka Moana
Golf Ball Sponge
Tethya bergquistae
40mm



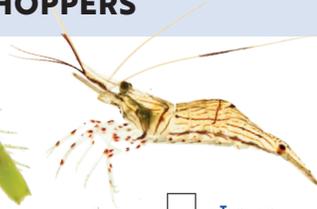
Mōwhitiwhiti / Potipoti
Sandhopper
Amphipod
5-10mm



Kutu Moana
Sea Slater
Isopod
10mm



Weri Moana
Sea Centipede
Isopod
20-30mm



Tarawera
Glass Shrimp
Palaemon affinis
65mm

KŌURAURA ME KĀ URI TATA

SHRIMPS & HOPPERS

PĀPAKA

CRABS



Rērere
Smooth Shore Crab
Cyclograpsus lavauxi
28mm



Kawekawe
Half Crab
Petrolisthes elongatus
10mm



Pāpaka Huna
Camouflage Crab
Notomithrax spp.
42mm



Waerau
Pill Box Crab
Haliscarcinus innominatus
19mm



Rērere
Common Shore Crab
Hemigrapsus sexdentatus
57mm



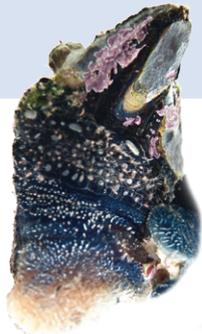
Pāpaka Huruuru
Hairy Handed Crab
Hemigrapsus crenulatus
40mm



Kāunga
Hermit Crab
Pagurus sp.
10mm



TIOTIO BARNACLES



Werewere
Gooseneck Barnacle
Calantica spinosa
40mm



Tiotio / Koromäungaunga
Plicate Barnacle
Epopella plicata
25mm

Tiotio piri-piri
Beaked Barnacle
Austrorhinus modestus
5mm



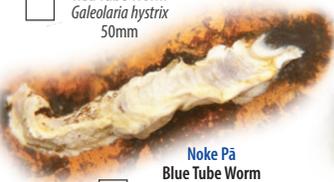
Tiotio / Koromäungaunga
Columnar Barnacle
Chamaesiphon columna
9mm



NOKE MOANA WORMS



Noke Pā
Red Tube Worm
Galeolana hystrix
50mm



Noke Pā
Blue Tube Worm
Spirobranchus cariniferus
50mm



Piri Ngongo
Spiral Tube Worms
Family: Serpulidae
3mm



Noke Moana
Rag Worm
Family: Nereididae
150mm



Noke Piri
Flat Worm
Anonymus kaikorensis
50mm

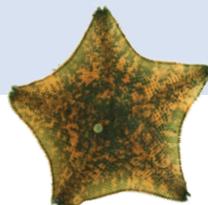
PAPATAKAROA SEA STARS



Pātakarua
Three and Three Star
Allotrichaster insignis
150mm



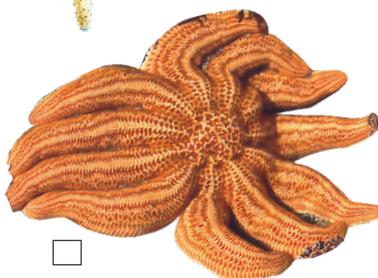
Papatakarua
Spiny Sea Star
Coscinasterias muricata
150mm



Kapu Parahua
Cushion Star
Patriella regularis
70mm



Takarua Wae Whitu
Seven Armed Sea Star
Astrostele scabra
360mm



Papatakarua / Pātakarua
Reef Star
Stichaster australis
300mm



Weki Huna
Brittle Star
Ophiomyxa breviformis
50mm

PAPATUA CHITONS



Papatua Hairy Chiton
Acanthochiton zelandica
25mm



Papatua Kākāriki Green Chiton
Chiton glaucus
35mm



Papatua Parāone Brown Chiton
Ischnochiton maorianus
40mm



Papatua Snakeskin Chiton
Sypharochiton pelisserpentis
50mm



Papatua Butterfly Chiton
Cryptoconchus porosus
70mm

KĀKIHI LIMPETS



Piritoka Small Limpet
Notoacmea elongata
8mm



Kākihi Awaawa Common Pulmonate Limpet
Siphonaria australis
20mm



shell interior

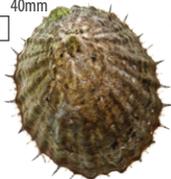


Tūpere Fragile Limpet
Atalacmea fragilis
15mm

Kākihi Ornate Limpet
Cellana ornata
40mm



Kākihi Radiate Limpet
Cellana radians
40mm



Kākihi Striated Limpet
Cellana strigilis
80mm

PĀUA / RORI PĀUA / SEA SLUGS



Rori Warty Nudibranch
Doris wellingtonensis
100mm



Rori Lemon Nudibranch
Dendrodoris citrina
75mm



Rori Duck's Bill Limpet
Scutus breviculus
150mm



Koio / Marapeka Virgin Pāua
Haliotis virginea
50mm



Koeo / Hauwai / Hihīwa / Marariwha / Karahiwa Yellow Foot / Silver Pāua
Haliotis australis
85mm



Pāua Black Foot Pāua
Haliotis iris
250mm

AKARUA BIVALVES



Kuku / Kutai / Porohe
Green-lipped Mussel
Perna canaliculus
150mm



Pukaniani
Ribbed Mussel
Aulacomya maoriana
80mm



Toretore / Porohe
Blue Mussel
Mytilus galloprovincialis
100mm



Kukupara / Hānea / Niania
Little Black Mussels
Xenostrobus neozelanicus
30mm



Tio Para
Rock Oysters
Ostrea chilensis
100mm

PAPA KURA ITI BRACHIOPOD



Papa Kura Iti
Lampshells
Calloria inconspicua
20mm

PŪPŪ SNAILS



Ngaeti
Blue-banded Periwinkles
Austrolittorina antipodum
8mm



Ngaeti
Brown Periwinkles
Austrolittorina cincta
16mm



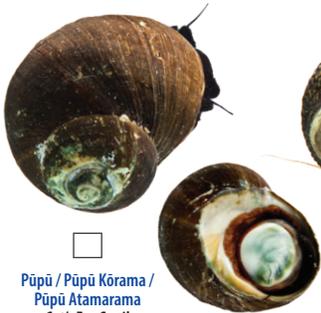
Koeti
Horn Snail
Zeacumantus subcarinatus
16mm



Hopetea
White Whelk
Haustrum lacunosum
35mm



Kaikai Tio
Oyster Borer
Haustrum albomarginatum
35mm



Pūpū / Pūpū Kōrama / Pūpū Atamarama
Cat's Eye Snail
Lunella smaragda
70mm



Māihi
Spotted Top-shell
Diloma aethiops
28mm



Māihi
Black Top-shell
Diloma spp.
26mm



Huamutu
Lined Whelk
Buccinum sp.
25mm

440 450 460 470 480 490 500 510 520 530 540 550 560 570

BRYOZOANS

Seaweed Encrusting Bryozoan
Membranipora membranacea



Rock Encrusting Bryozoan



Flexible Bryozoans
Elzerina binderi
20mm

SEA SQUIRTS



Colonial Ascidians
Didemnum spp.



Colonial Ascidians
Botrylloides spp.



Colonial Ascidians
Distaplia spp.



Solitary Ascidians
Asterocarpa spp.
40mm



Kaeo
Sea Tulip
Pyura pachydermatina
400mm

IKA FISH



Taumaka
Olive Rock Fish
Acanthoclinus fuscus
300mm



Kokopara
Common Triplefin
Forsterygion spp.
50-110mm



Papawharu
Clingfish
Gastrosicyphus hectoris
90mm

RIMURIMU KĀKĀRIKI GREEN SEAWEEDS



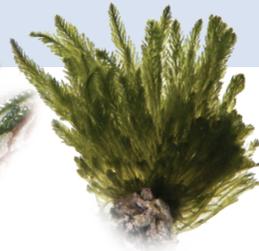
Intestine Weed
Ulva intestinalis
150mm



Rimu
Sea Lettuce
Ulva spp.
300mm



Sea Emerald
Chaetomorpha coliformis
20mm



Bryopsis spp.
80mm



Encrusting Velvet Weed
Codium convolutum
200mm



Branching Velvet Weed
Codium fragile
300mm

Rimurimu
Sea Rimu
Caulerpa brownii
300mm



RIMURIMU PARĀONE

BROWN SEAWEEDS



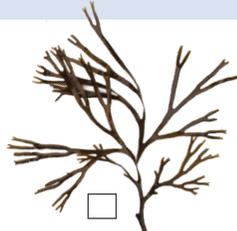
Scytosiphon lomentaria
300mm



Neptune's Necklace
Hormosira banksii
500mm



Zig-zag Weed
Cystophora scalaris
1.5m



Strap Weed
Xiphophora gladiata
500mm



Rimurimu
Flap Jack or Sea Wrack
Carpophyllum flexuosum
2m



Sea Sack
Adenocystis utricularis
90mm



Filamentous Brown Weed
Ectocarpus spp.
100mm



Wakame
Undaria pinnatifida
1m



Kōauau
Bladder Kelp
Macrocystis pyrifera
30m



Sac Weed
Colpomenia spp.
100mm



Rimurapa
Bull Kelp
Durvillaea poha
3-10m



Kakau moana
Gummy Weed
Splachnidium rugosum
200mm

RIMURIMU KURA

RED SEAWEEDS



Encrusting Coralline Algae
Order Corallinales



Branching Coralline Algae
Arthrocardia spp.
120mm



Karengo / Parengo
Karengo
Pyropia spp.
300mm



Pachymenia dichotoma
500mm



Carrageenan Weed
Sarcotialia livida
200mm



Filamentous Red
Polysiphonia spp.
150mm



Moss Weed
Bostrychia arbuscula
50mm

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 rātoro 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 ākau 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
Beware of slippery and uneven rock surfaces.
- 🌊 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.

Acknowledgements

The guide, produced by the NZ Marine Studies Centre, Department of Marine Science, University of Otago in Dunedin, is proudly supported and funded by Coastal People : Southern Skies, Centre for Research Excellence. Te reo Māori - Megan Pötiki, Ani Kainamu. Photographer Tomas Bird. Illustrator Graeme Furness. Additional photos D. Pagé, R. Morris, C. Hepburn, P. Crick.



ISBN: 978-1-7386237-5-4 [Dig.]

ISBN: 978-1-7386237-1-6 [Phys.] © NZMSC 2023 Every effort has been made to ensure the accuracy of this guide at the time of publication.

*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*