

PUKA ĀRAHI MŌ TE TAPĀTAI ONE SANDY AND MUDDY SHORE GUIDE



He puka ārahi mō kā tini o Takaroa ka noho ki kā tapātāi one o te Tai Toka. Common animals and plants living on the sandy and muddy seashores of southern New Zealand.

KŌTORE MOANA ANEMONES

- Burrowing Anemone** *Edwardsia mesenterica* 20 mm
- Kōtore Mudflat Anemone** *Anthopleura hemiphaedrica* 20 mm

RORI SEA CUCUMBER

- Rori Burrowing Sea Cucumber** *Teniogygia dianthensis* 50 mm

IKA FISH

- Toro Banded Stargazer** *Kaheketanga bimaculata* 450 mm
- Estuarine Triplefin** *Forsterygion nigripenne* 90 mm
- Whaihai / Pātiki Sand Flounder** *Rhabdosolea plebeia* 430 mm
- Pātiki Rori Sole** *Petrolongus* spp. 350 mm

PĀPAKA CRABS

- Burrow opening**
- Pāpaka Stalk-eyed Mud Crab** *Hemigrapsus* spp. 35 mm
- Pāpaka Paddle Crab** *Ovalipes catharus* 150 mm
- Burrow opening**
- Kairau Tunnelling Mud Crab** *Austrohelice crassa* 20 mm
- Pāpaka Hairy-handed Crab** *Hemigrapsus crenulatus* 40 mm
- Waera Estuarine Pillbox Crab** *Halkarcinus whitei* 10 mm

KŌURAURA ME KĀ URI TATA SHRIMPS & HOPPERS

- Burrows**
- Potipoti Burrowing Amphipod** *Paracorephium excavatum* 3 mm
- Māwhitihiti / Potipoti / Māwhiti Sandhopper** *Bellorchestia* spp. 14 mm
- Kūtu Moana Isopod** *Scyphax ornatus* 10 mm
- Kōwhitihiti Moana Snapping Shrimp** *Alpheus richardsoni* 65 mm
- Burrow entrance and exit**
- Tarawera Ghost Shrimp** *Fibillanassa tikohi* 60 mm
- Tarawera Mantis Shrimp** *Heterosquilla trisulcata* 75 mm
- Uwha Female**
- Tarawera Sand Shrimp** *Philocherus australis* 40 mm

PŪPŪ & KĀKIHI SNAILS & LIMPETS

- Pūpū Topshell** *Micrarchaea hastonii* 5 mm
- Titiko / Karahi / Karehi / Korikahi Mud Snail** *Amphibola crenata* 30 mm
- Kōkiki / Piritoka Estuarine Limpet** *Astoscaea scapula* 11 mm
- Kōeti Horn Snail** *Zeacumantus subcarinatus* 15 mm
- Kōta Wheel Snail** *Zethalia zelandica* 22 mm
- Ngaere Necklace Shell** *Tana zelandica* 33 mm
- Whētiko Mudflat Topshell** *Diloma substrata* 25 mm
- Totoree Large Otterfoot** *Struthiolina papulosa* 80 mm
- Takāi Otterfoot** *Pelicania vernis* 40 mm
- Kōwai Mudflat Whelk** *Caminella glandiformis* 25 mm
- Totoree / Papatāi Turret Shell** *Moercolpus rosus* 80 mm
- Kōtore Small Turret** *Siraolpus symmetricus* 15 mm
- Pūpū Rore Arabic Volute** *Alicia arctica* 100 mm

AKARUA BIVALVES

- Nut Shell** *Lincolna hartvigiana* 8 mm
- Tawera Morning Star Shell** *Tawera spissa* 25 mm
- Tauki / Tuangi / Hiai Cockle / Little-neck Clam** *Austrovenus stutchburyi* 50 mm
- Kuhakua Small Dog Cockle** *Gycomers modesta* 30 mm
- Takarepo Sunset Shell** *Gari canessa* 60 mm
- Hahari Oblong Venus Clam** *Venerupis largillierii* 60 mm
- Tauki Haruru Venus Clam** *Dosinia anus* 80 mm
- Karoro Ribbed Venus Clam** *Leukoma caessacoata* 45 mm
- Kaikākaroro Surf Clam** *Spisula maritima* 90 mm
- Kaikākaroro Triangular Trough Clam** *Cassida angulata* 70 mm
- Whāngai karoro Large Trough Clam** *Spisula discors* 90 mm
- Pipi / Kōkoti / Angarite Pipi** *Paphies australis* 60 mm
- Tuatua Southern Tuatua** *Paphies dotuana* 90 mm
- Toheroa / Moone Paphies discors 110 mm**
- Feeding mark**
- Hanikura Wedge Shell** *Macomona liliana* 55 mm
- Tio Para Bluff Oyster** *Ostrea chilensis* 80 mm

NOKE MOANA WORMS

- Noke Moana Lugworm** *Abarenicola affinis* 100 mm
- Noke Moana Cocker Shell Worm** *Buccorhinus* 20 mm
- Noke Moana Bamboo Worm** *Family Maldanidae* 130 mm
- Noke Moana Spaghetti Worm** *Family Terebellidae* 40 mm
- Cirratulid Worm** *Family Cirratulidae* 100 mm
- Weri Moana Ragworm** *Family Heterididae* 100 mm
- Noke Waitai Ribbon Worm** *Phylum Nemereta* 200 mm
- Noke Moana Blood Worm** *Family Glyceridae* 130 mm
- Noke Waitai Oweniid Worm** *Family Oweniidae* 45 mm
- Noke Moana Catworm** *Family Nephyridae* 100 mm
- Noke Moana Ophelid Worm** *Thoracophelia* 35 mm
- Noke Moana Polychaete Worm** *Family Orbiniidae* 100 mm

TIOTIO BARNACLES

- Attached to rocks**
- Tio Piripiri Estuarine Barnacle** *Austrominius modestus* 5 mm

RIMURIMU & DIATOMS SEAWEED & DIATOMS

- Rimurimu Kura Graillaria** *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)**
- Barrel Shrimp inside a Salp** *Phronima* sp. 40 mm
- Ihūmoana / Katlaho Blue Bottle Jellyfish** *Physalia physalis* 150 mm
- Werewere Pelagic Barnacles** *Lepas anatifera* 40 mm
- Kelp Air Bladder** *Macrocystis pyrifera*

DRIFT

- Otaota Maram Grass** *Ammophila arenaria* 1200 mm
- Pikao** *Ficinia spiralis* 900 mm
- Rūpene Tree Lupin** *Lupinus arboreus* 1500 mm
- Wiri Knobbly Clubmoss** *Ficinia nodosa* 1500 mm
- Wiri Sea Rush** *Juncus kraussii* var. *australis* 2000 mm
- Otoi Jointed Wire Rush** *Apodisma similis* 1500 mm

OTAOTA PLANTS

- Karepō / Nana Eelgrass** *Zostera muelleri* 300 mm
- Ureure Glaucwort** *Sarcocornia quinqueflora* 150 mm
- Wahi Atua / Wahi o Kahakura Shore Spurge** *Euphorbia plauca* 500 mm
- Wiri Sea Rush** *Juncus kraussii* var. *australis* 2000 mm
- Otoi Jointed Wire Rush** *Apodisma similis* 1500 mm
- Wiri Knobbly Clubmoss** *Ficinia nodosa* 1500 mm

KIA TIAKINA KĀ TINI O TAKARO A SHOW RESPECT FOR SEASHORE CREATURES



- Ata hikoi. 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 rīkarakia māku. Handle creatures with care - close to the ground with wet hands.
- Kia āta whakahoki kā toka ki ō rātou wāhi tika. Carefully put rocks back to the same position you found them.
- Kauraka e rahi tō kohikohi aka, he kāika me 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 TAKARO A AVOID DISTURBING WILDLIFE



- Me noho tawhiti koe i kā manu me kā pēnū. 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 tūmu, 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 e 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 māneene, ki kā toka titaha hoki. Soft mud can be dangerous. If you start to sink turn back.
- Haria atu kā para ka kimiha 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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ŌTĀKOU WHAKAIHU WAKA



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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

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