

→ driving times

	km	driving time		km	driving time
Picton to Nelson city	144	2 hrs	Nelson city to Takaka	109	1 hr 30 mins
Westport to Nelson city	226	3 hrs 15 mins	Takaka to Collingwood	27	35 mins
Christchurch to Nelson city	424	5 hrs	Nelson city to St Arnaud	109	1 hr 30 mins
Nelson city to Motueka	51	45 mins	St Arnaud to Picton	125	1 hr 45 mins
Motueka to Marahau	18	20 mins	Nelson city to Murchison	129	1 hr 50 mins



setting sail for nelson, new zealand

New Zealand is known for its scenic beauty and enviable lifestyle - it also offers a wealth of business expertise, innovation and creativity.

The marine industry illustrates New Zealand's world-class design and engineering capability, from building super-yachts to success in the America's Cup.

Nelson boasts a highly successful marine industry, offering world-class expertise in design, building and refit.

A seaside resort city, Nelson is a great place to visit, offering scenic beauty, outdoor recreation, a thriving arts community, a great all-year-round climate with the highest sunshine hours in New Zealand and a lifestyle many regard as 'paradise'.

Nelson by the Sea provides information for craft visiting the Nelson Marina, it also promotes Nelson as a leading New Zealand centre for marine engineering expertise. In this publication you will find:

- An introduction to early Nelson history
- A central resource directory of Nelson's marine expertise
- Nelson sailing and recreation information

- Tide timetables
- Marine radio information
- Nelson lifestyle attractions
- Local services and businesses.

This publication is read by:

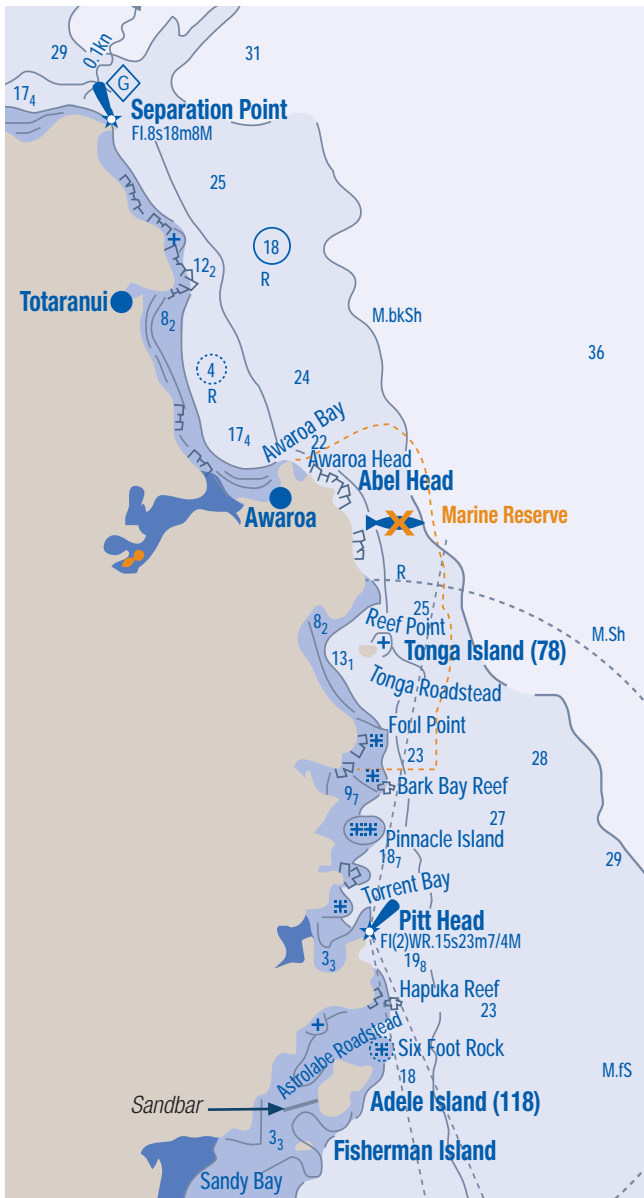
- Boat owners seeking to build or refit boats
- Project managers looking to build commercial or recreational boats
- International yacht owners sailing worldwide
- New Zealand boaties and yachties
- People looking to move to Nelson
- Nelson and Tasman region residents.



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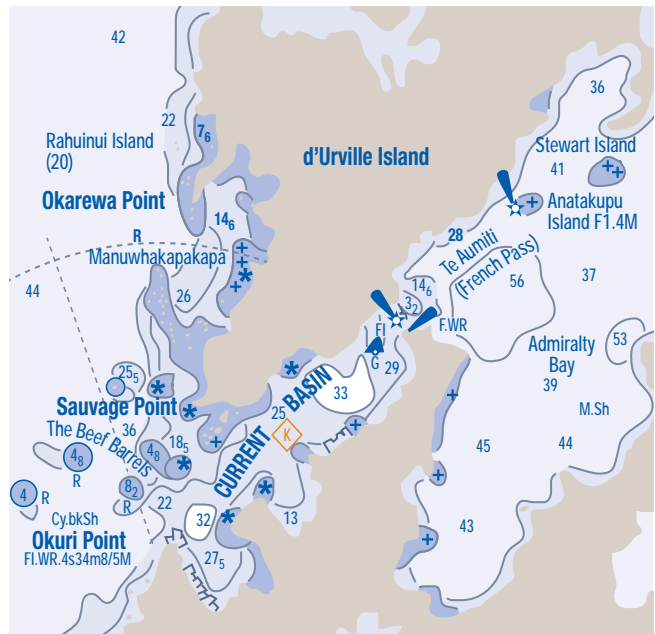
→ abel tasman coastline



→ nelson tasman climate

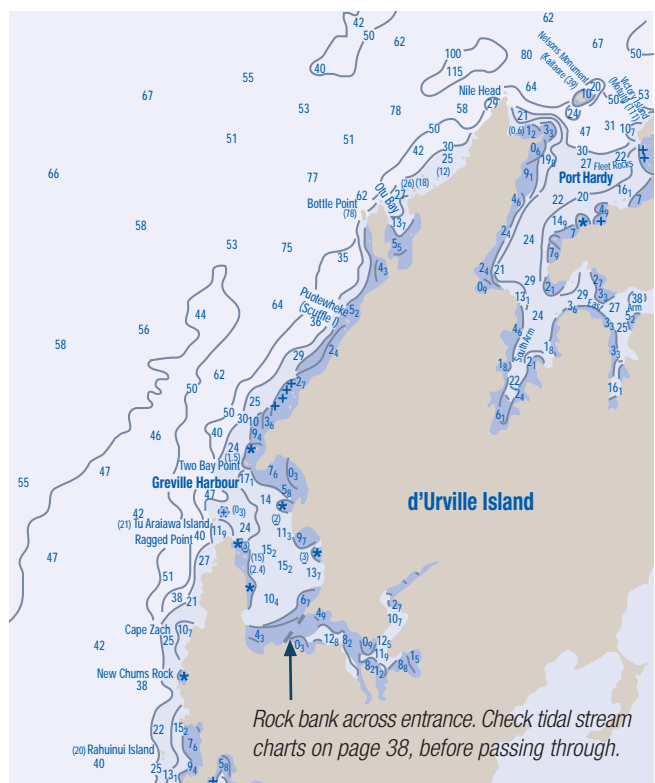
	Mean daily max. temps °C °F	Mean daily min. temps °C °F	Average rain days per month (1mm)
Summer (Dec-Feb)	22 72	12 54	7
Autumn (Mar-May)	18 62	8 46	7
Winter (Jun-Aug)	13 55	2 36	8
Spring (Sep-Nov)	17 63	8 46	9

→ french pass



Note: Check tidal stream charts on page 38.

→ greville harbour and port hardy



Rock bank across entrance. Check tidal stream charts on page 38, before passing through.

→ about new zealand



Tasman Bays Heritage Trust / Nelson Provincial Museum, Art Collection, C4484

→ quick facts

Where is New Zealand?

New Zealand is a small island nation in the South Pacific, 1,600km east of Australia. The latitude and longitude of Auckland, NZ is 36° 52'S, 174° 46'E.

How big is New Zealand?

Together, the two main islands and a number of small islands have a total land area of 268,021km², around the same size as Great Britain or Japan.

Population

About 4.2 million - welcome to one of the world's least crowded countries.

Climate

New Zealand generally has a temperate climate. Most of the main population centres lie close to the coast, which means mild temperatures, moderate rainfall and abundant sunshine. In Nelson winter days are often calm and sunny after a morning frost. Tasman Bay is sheltered from the southerly air flows that bring most of New Zealand's cold weather.

Sunshine

Most places in New Zealand receive more than 2,000 hours of sunshine a year. Nelson is the sunniest area, receiving more than 2,420 hours annually, an average of more than 45 hours of sunshine a week.

New Zealand observes 'daylight saving'. By turning the clocks back an hour over summer, daylight can last until 10pm.

Cities

Auckland is the largest city in New Zealand with a population of just over one million. The capital city is Wellington. The two main centres in the South Island are Christchurch and Dunedin. Nelson is the country's tenth largest city.

our history - the early days

As a country with a lot of coast, New Zealand's Māori and European history is based around the sea. Māori have visited and lived in Whakatu (Nelson) from as early as 850 AD. The sunny climate and rich sources of seafood attracted them to this region; which was also noted for a hard dark stone called pakohe or argillite that was quarried and made into tools and weapons for use and trade.

In the early 1820s, British and American sperm whalers arrived in New Zealand, and from the 1840s many immigrants came from England to start a new life. Nelson began as a New Zealand Company organised settlement in 1842. Because early coastal settlements were geographically isolated, the early coastal trading vessels were vital for delivering supplies and materials. The importance of boats to the fledgling settlement was shown with a regatta staged in 1843 to mark the first anniversary of the European settlement. Sailing ships, whaleboats and Māori waka raced on Nelson Harbour as the small community marked a year of survival and the triumph of production from the first farms and gardens.

From the beginning the Nelson economy has been based on exports, with apples and fish shipped to Wellington from the early days and wool exported to England in fast clipper sailing ships.

As New Zealand's commercial fishing and marine industries grew, so did a passion for sailing and boating as national pastimes. The Nelson Yacht Club - the hub of youth sailing in the region - was a leader among the country's formal yachting establishments and is also among the oldest, celebrating its 150th anniversary in 2007.

In recent times, New Zealand has taken on the world in sailing and match racing. We have produced many notable sailors including David Lewis who wrote of his adventures on the southern oceans, the late Sir Peter Blake and Grant Dalton, both multiple round-the-world race winners.

Kiwis won the America's Cup in 2000, defended it in 2003, and challenged for it in 2007.

New Zealanders combine engineering technology with a 'can-do' attitude and creative style that keeps this country at the forefront of marine recreation, engineering and innovation.

→ getting to town



There is a well signposted walkway to the city, which takes about ten minutes. Enter where Akersten Street curves towards the port. By car the city is five minutes from the marina and the airport is ten minutes depending on traffic.

Nelson City Taxis, Phone: 03 548 8225. Sun City Taxis, Phone: 0800 422 666.

→ about nelson



Nelson is one of New Zealand's most popular holiday destinations. The city is the urban centre of the region and has many historic buildings, a small central business district that is easy to get around, the Maitai River, Tahunanui Beach, Queens Gardens, and a stunning outlook from any vantage point to Tasman Bay and the distant Mount Arthur Ranges.

Richmond, about 20 minutes drive from Nelson, is a fast-growing retail and residential centre and the gateway to the Tasman district, which is productive in both horticulture and forestry. There are many picturesque wineries, olive plantations, farms and apple orchards en route to Mapua, Motueka and Golden Bay.

what's in a name?

The Māori name for Nelson, 'Whakatu', has several interpretations. Waka is a Māori canoe and Whakatu may mean a place where a chief's waka was stood on end to mark his burial place, though 'upright canoe' could also refer to the wrecked migratory waka from Hawaiki that ran onto Nelson's Boulder Bank in a storm in 1200.

→ for more info

On leisure and recreation visit the official regional tourism organisation for the Nelson Tasman Region, Latitude Nelson www.nelsonnz.com

or Nelson City Council at www.nelsoncitycouncil.co.nz

→ quick facts

General

- Nelson is a seaside city, centrally located in New Zealand at the top of the South Island. Latitude and longitude for Nelson are NZ: latitude 41° 15.63'S, longitude 173° 16.85'E.
- Proximity - 80 minutes flying time from Auckland, 30 minutes flying time from Wellington.
- Nelson has the highest annual sunshine hours in New Zealand at 2,420 hours.
- Population: Nelson city has around 43,000 people and the greater Nelson/Tasman region has about 88,000 people.

Industry

- The major regional industries are fishing, forestry, tourism, agriculture and horticulture.
- In total, Nelson fishing interests hold around a third of New Zealand's 586,011 tonnes of sustainable catching rights.
- Local fishing companies have also extended their operations into the international arena. Nelson-based Sealord Group has companies with world-wide fishing, processing and marketing networks.
- Nelson boasts the largest fishing port in Australasia, catering for a fleet of fishing vessels from small local inshore boats to large factory trawlers.
- Port Nelson is a busy regional port, handling 2.5 million tonnes of cargo annually, including pipfruit, seafood and forest products.
- Port Nelson has a super-yacht berth for larger vessels.
- The region has the fourth busiest commercial airport in New Zealand, located just ten minutes drive from the city centre.

Lifestyle

- Nelson Marina has nearly 600 berths for yachts and boats.
- Nelson is 90-minutes drive from three beautiful and diverse national parks. The Nelson Lakes National Park, Kahurangi National Park, and the famous Abel Tasman National Park with 22,350 hectares of native bush and golden sand beaches, an idyllic location for sailing and boating.
- Enjoy more than 500 choices in accommodation from boutique bed and breakfasts to luxury lodges.
- Nelson has 350 working artists plus art galleries, cafés, restaurants, vineyards, more than 20 wineries and lots of outdoor recreation opportunities from sea kayaking to bush walking, rock climbing, fishing, rafting, jet boating and hunting.
- Picton, gateway to the Marlborough Sounds with numerous coves and inlets, is a two hour drive from Nelson. The Sounds are also accessible by boat, via French Pass.



→ nelson lifestyle



Fine wines, seafood, fresh produce, art, entertainment, great sailing, national parks and high sunshine hours - Nelson has good reason to say it is the lifestyle capital of New Zealand.

outdoor leisure

Recreation: The Nelson Tasman region creates a perfect setting for outdoor fun including sea-kayaking, golf, sailing, fishing, mountain biking, cycling, tramping, rock climbing, caving, paragliding, horse-riding and four-wheel-drive adventures.

Walks: The city area has many well signposted walking tracks, detailed in a booklet available from the Nelson City Council offices and the i-SITE Visitor Information Centre - both on Trafalgar Street - and local bookshops.

National Parks: Explore three national parks within 90 minutes drive of Nelson city. Go bush walking, tramping, mountaineering, sea kayaking, swimming or seal watching.

Brook Waimarama Sanctuary: New Zealand's vulnerable native birdlife is being decimated by introduced predators. This sanctuary aims to return the habitat to the birds with a fence around the 716 hectare site that will keep out pests such as rats, stoats and possums.

arts and culture

The Suter - Te Aratoi o Whakatu:

The region's public art gallery, third oldest in New Zealand, holds a valuable collection of works, reflecting the visual art history of the region. A varied exhibition programme, café, art and craft retail area, all showcase the region's artists. 208 Bridge Street, Nelson.

Nelson Market: Every Saturday morning, New Zealand's best market offers arts, crafts, food, clothing, jewellery, local fashions and much more. Montgomery Car Park off Rutherford Street.

World of WearableArt & Collectable

Cars Museum: Features two main exhibition galleries of stunning WearableArt® costumes and garments, plus there's an art gallery, audiovisual theatre, café and retail shop. A nationally recognised attraction and the birthplace of the World of WearableArt®. The car museum displays an impressive collection of classic cars. Quarantine Road, Annesbrook.

Nelson Public Libraries: Our libraries are a great source of information on the region as well as providing access to the wider information world. The Elma Turner Library in central Nelson is on Halifax Street, and backs onto the walkway from the Marina. It provides recreational reading resources, research facilities, and free access to the internet. There is also the Nightingale Library Memorial in Tahunanui and the Stoke Library. Membership for Nelson residents is free. However, should you be temporarily berthed, a monthly fee of \$15 will apply.

The Nelson Provincial Museum Pupuri

Taonga O Te Tai Ao: Located on the same Town Acre block in Trafalgar Street where the original museum stood in 1842, the museum provides an insight into the natural and human history of Nelson. Admission to general galleries is free to residents and by donation for visitors. Retail shop and changing exhibitions. Hours: Monday to Friday 10am to 5pm; Saturday, Sunday and Public Holidays 10am to 4.30pm. Closed Good Friday and Christmas Day.

i-SITE Visitor Information Centre:

Visitors to the city can access all the information they need from here. The information, booking and retail site is in the central city, at Miller's Acre, Taha o Te Awa, located on the corner of Halifax and Trafalgar Streets. It is open 8.30am-5pm week days and 9am-4pm weekends and public holidays.

Art in its Own Place: Get your copy of this regional guidebook to artists, craftspeople, wineries, cafés and

accommodation - a must for anyone staying more than a few days and a great souvenir of Nelson. Follow the art trails and explore the countryside to see galleries and meet the artists. Available from Nelson bookstores and galleries.

music, movies, live entertainment

Nelson has several nightspots and late-night music venues, clustered in upper Trafalgar and lower Bridge Streets.

Catch a movie at the multi-screen State Cinema or at the Suter Cinema for art house films.

The Nelson School of Music presents a busy annual calendar of events and live performances from jazz to contemporary music.

wine and dine

With more than a hundred cafés, restaurants, eateries and superior take-away food outlets throughout the region there is plenty of choice. Formal dining, cafes, ethnic cuisine, Nelson flavours and stunning outdoor settings. Pick up the free brochure Eat Drink Nelson for more info.

Nelson is known for its world-class boutique Chardonnay, Pinot Noir, Sauvignon Blanc, Riesling and Pinot Gris wines with around 20 wineries to visit for cellar door sales and tastings.

shopping and relaxation

Nelson and Richmond have a wide range of shops from local fashion boutiques and art galleries to national chains and the stores of the Richmond Mall. The closest supermarket is a pleasant 10 minute stroll along the Maitai River walkway.

→ contact

On the Nelson lifestyle and attractions, visit www.nelsonnz.com



Founders Heritage Park, in Atawhai Drive, is a replica village containing many historic buildings and artefacts of early Nelson. Highlights include Dr Bush's Windmill, the general store, hospital, apothecary and barber shop, vintage and horse drawn vehicles, fire engines and a working train. There is a café and brewery at Founders.

Open daily 10am - 4.30pm.

Admission \$5 adults, \$2 children.

Phone: 03 548 2649.



Broadgreen House is a two-storied cob house built around 1855. The 11 rooms of Broadgreen, including the cellar, have been restored and furnished to capture the atmosphere of a colonial family home. Don't miss the Samuels Rose Garden. There is a small charge for entry to the house.

Hours are 10.30am - 4.30pm every day except Good Friday and Christmas Day.

Phone: 03 547 0403.



Isel Park at Stoke is a 6ha woodland garden with several trees that are the largest of their kind in New Zealand. Mass plantings of bulbs and perennials are at their best in spring when the rhododendrons and azaleas are in bloom.

The park includes historic Isel House, open to the public every day from 11am to 4pm, with entry by donation.



Miyazu Japanese Garden situated in Atawhai Drive is a traditional Japanese stroll garden named after Nelson's sister city Miyazu in Japan. Large boulders and stonework, ponds, and stepping stones create a tranquil environment.

Don't miss the cherry blossoms in spring.



Natureland is at Tahunanui Beach. Natureland is a zoological park where families can get close to many of the animals. Natureland has wallabies, monkeys, llamas and alpacas, Kune Kune pigs, otters, and peacocks as well as turtles, tropical fish and an aviary.

Open 9am - 4pm daily.

Admission \$5 adults, \$2 children.

Phone: 03 548 6166.

Waahi Taakaro Golf Course is just 4km from the city, where you can play an 18 hole game on a challenging but uncrowded nine hole course. It is in a beautiful river valley setting, surrounded by leafy shade trees where tui, pigeons and kingfishers create an all day chorus.

Open seven days. In winter Saturday is club day. Meet other golfers at Summer Twilight Golf on Thursdays from 4pm - open to everyone. Green fees are \$15 for 9 holes and \$17 for 18 holes, students \$7. Club hire for 9 holes is \$15 for a half set and \$25 for a full set. For 18 holes club hire is \$18 for a half set or \$33 for a full set. Golf coaching is available.

Maitai Valley Road, Nelson.

Phone: 03 548 7301.



Nelson's climate and lifestyle attractions give it a better range of services than the average provincial centre.

education

Nelson and Tasman have a total of 59 schools, eight of which are secondary, covering Golden Bay, Mapua, Motueka, Tapawera, Richmond and Nelson city.

Accredited New Zealand schools can accept international fee-paying students on a short-term basis, unlike many other countries. There are also many preschool facilities that will take children who are new to the area.

For details of individual schools, refer to the *Te Kete Ipurangi (TKI)* Internet site at www.tki.org.nz/e/schools/

tertiary education and courses

If you want to study or pursue a hobby while staying in Nelson, check out the Nelson Marlborough Institute of Technology's short course programme. Courses range from art and design, aviation, business to barrista and much more.

For more information visit www.nmit.ac.nz. Local secondary schools also offer adult education courses.

health

Nelson Hospital

Nelson Hospital, an acute, 24-hour, seven-day-a-week base hospital offers medical, surgical, obstetric, maternity, child health, emergency and oral health services.

For more information visit www.nmdhb.govt.nz
Phone: 03 546 1800.

Nelson Region After Hours Duty Doctor

is a central facility that is open 8am-10pm with a 24-hour duty doctor, at 96 Waimea Road.

Phone: 03 546 8881.

emergencies

Police, Fire and Ambulance

Phone: 111.



transport

Nelson Airport

Nelson Regional Airport is New Zealand's fourth busiest with Air New Zealand Link as the main scheduled passenger carrier. There are also companies offering helicopter and fixed-wing charter flights.

To book flights go to www.airnewzealand.co.nz

wheels

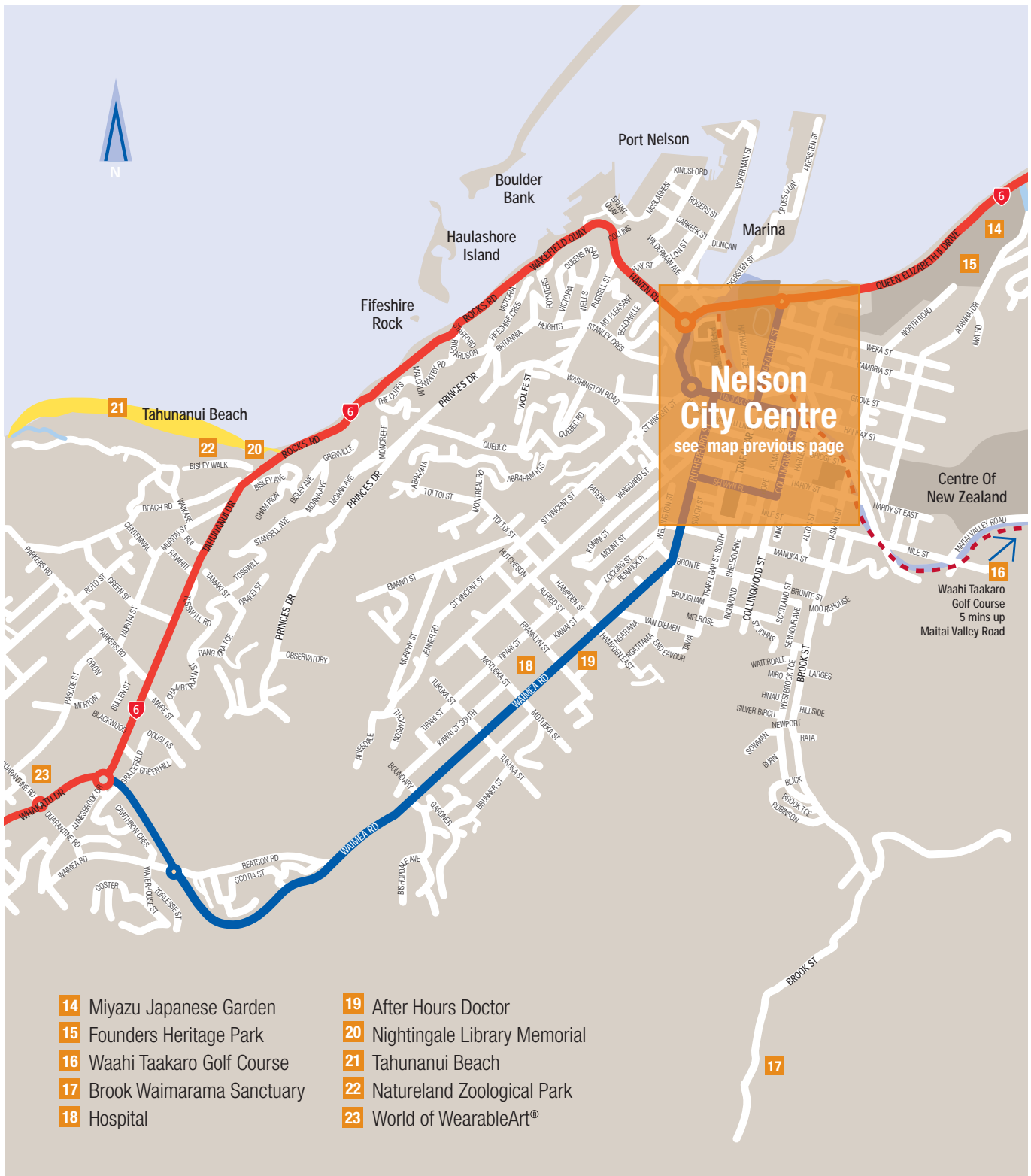
Get mobile with a rental car from one of several reputable hire firms. To hire a vehicle look in the Yellow Pages.

nelson city centre map key

- 1 i-SITE Visitor Information
- 2 Elma Turner Library
- 3 Supermarkets
- 4 Post Office
- 4 Nelson City Council
- 5 State Cinema 6
- 6 Nelson Market (Sat & Sun)
- 7 Nelson Provincial Museum
- 8 Nelson Cathedral
- 9 Historic South Street
- 10 Nelson School of Music
- 11 NMIT
- 12 Suter Art Gallery
- 13 Police



→ nelson city centre

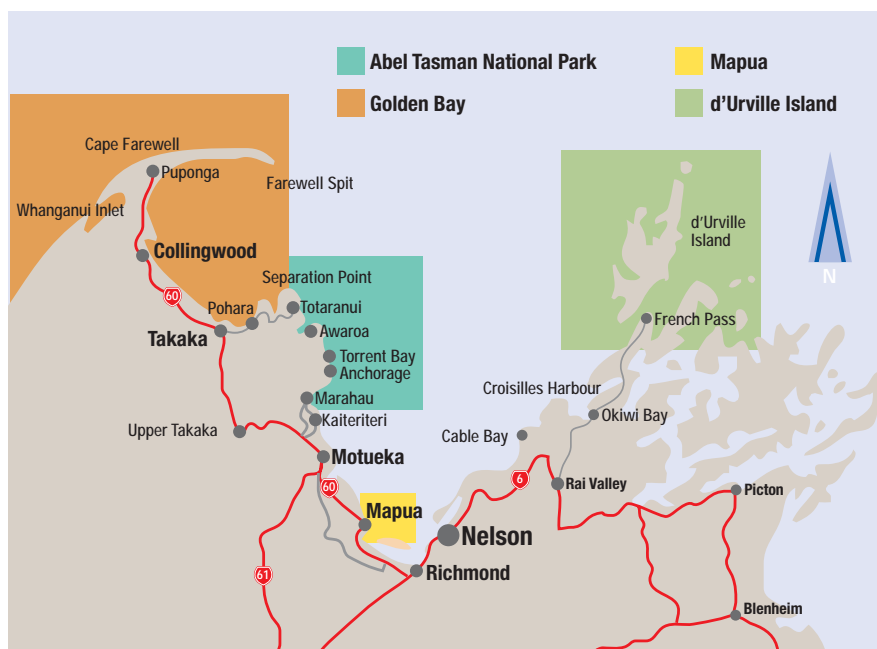


→ sailing around nelson

“ This is a fabulous cruising area. It’s as good a cruising area as any part of New Zealand. You come out of the marina and it doesn’t matter where the wind is from. If it’s one way, you can head to Abel Tasman, and if it’s the other, you can go to the Sounds. And they’re both only a few hours away ”

Kiwi yachtsman Chris Bouzaid

→ cruising areas



→ abel tasman national park

A half day's sail will take you to the Abel Tasman National Park where you can anchor in any number of bays. The most popular overnight anchorages include Anchorage near Torrent Bay and Adele Island inside the Astrolabe Roadstead. There are several estuaries along the coastline, including Torrent Bay, Mosquito Bay and Frenchman's Cove, where flat-bottomed boats or multi-hulls can enter at high tide and beach between tides. Allow around 6 - 7 hours sailing time from the Cut to Pitt Head (29 nm).

The Abel Tasman National Park is the smallest national park in New Zealand. Its 22,350 hectares extend along a beautiful coastline of sandy, bush-wrapped beaches between rocky headlands and stretches of estuary rich in bird life.

The park buzzes with activity in summer but is a year-round attraction. In winter, frosty mornings usually give way to sunny, calm days and empty beaches.





→ mapua

Mapua sits at the mouth of the Waimea Inlet, the largest estuary in the South Island.

Getting into Mapua by sailboat is tricky - talk to a local about tides and channel markings before attempting this trip.

Stop off at the historic Mapua Wharf - it's still operational and is also the centre of a thriving café and restaurant scene. Visit the aquarium and craft galleries or stroll to the village.

→ golden bay

Golden Bay lies beyond Separation Point and Abel Tasman National Park, sheltered by Farewell Spit. There are mooring facilities at Port Taranui and within a new marina at the port.

About 1,100 people live in the main town of Takaka, the gateway to Golden Bay beaches and the northern entry of the Abel Tasman National Park. Just out of town are the famously clear Waikoropupu Springs. Takaka is also the closest town to Paynes Ford, which has some of the best limestone crag climbing in Australasia. Golden Bay is known for its artists and alternative lifestylers who add interest and a strong sense of community. There are launching ramps for small craft at Taranui, Taranui and Pohara.



PHOTO: STIRLING IMAGES



PHOTO: STIRLING IMAGES

→ collingwood

A seaside township of around 300 people, with a small tidal harbour, on the west side of Golden Bay. Collingwood is the base for guided trips to Farewell Spit, an internationally important bird sanctuary. Every spring, thousands of waders, including godwits, knots, curlews and turnstones arrive from Siberia and Alaska to join other birds that are permanent residents at the spit.

Access is restricted to protect the birds, but there are walking tracks to the base of the dunes, and commercial four-wheel-drive tours to the lighthouse.

Whanganui (Westhaven) Inlet is a large estuary on the West Coast, protected as a reserve with its surrounding coastal forests.

→ sailing around nelson



→ marine reserves

New Zealand has several marine reserves around the coast where sea life is protected. They are managed by the Department of Conservation.

You can take your boat into the reserve area, but please observe speed limits and watch for divers. Avoid anchoring as this disturbs the seafloor.

Tonga Island Marine Reserve is within the Abel Tasman National Park and was created in 1993. It has granite reefs inhabited by invertebrates and reef fish. The reserve is the ideal place to watch the seals, but be sure to observe the rules about not landing on Tonga Island itself.



PHOTO: STIRLING IMAGES

Cable Bay and the Horoirangi Marine Reserve lie just 12km north of Nelson city. The reserve extends northeast from the Glen to the southern headland of Cable Bay, and offshore for one nautical mile. Horoirangi is the highest peak overlooking the reserve. Walking, exploring the intertidal zone, kayaking, snorkelling, diving and boating are all popular recreation activities in the reserve.

d'Urville island

It is a day sail (30-40 nautical miles, 6 - 8 hours) from Nelson to the fishing grounds of d'Urville Island, with a popular stop-over at the sheltered anchorage at Croisilles Harbour between Nelson and d'Urville.

At d'Urville Island the two main all-weather safe anchorages are Port Hardy, and Mill Arm within Greville Harbour on the western flank of the island. These anchorages are open to weather from the north and west, so it's important to check marine forecasts before heading that way (if in doubt stop at Croisilles).

The entrance to Greville Harbour is through a small gap in a boulder bank, and is marked with port and starboard navigation markers, but it's very tidal so caution is needed when entering or leaving. The port beacon should be given clearance of at least 10 metres and the starboard beacon 20-30 metres. If you run aground with the tide against you, it is easy to get off but if the tide is behind you, it is easy to get stuck. It is reported that there is only two metre maximum depth at low water. Vessels with larger draughts should be aware and consider passing through closer to high tide. The Mill Arm is the most used anchorage in Greville and parts of it give shelter from all winds. The northern end gives good holding on a mud bottom but can be prone to gusts.

Port Hardy: The main part of the harbour is between Trafalgar Point and Victory Islets, where there is deepwater close to most points. A rock has been reported southeast of Nelson's Monument and this area should be given a clearance of 100 metres.

The area north of Victory (Moutiti) Islets is too open for anchorage except in calm weather or light winds from E to S. About one mile north of Victory Islets are Rakiura Rocks.

Another popular anchorage at d'Urville is Catherine Cove - a reasonably protected spot as you venture up the island's eastern side. To get there from Nelson, it's best to navigate French Pass - the narrow stretch of water between d'Urville and the mainland. This is also extremely tidal and is best crossed during slack tide or with a favourable tide and under engine. When the tide is flowing strongly be prepared for sudden sheering caused by whirlpools. Unless you are experienced do not attempt to pass through against a strong adverse flow, and in that situation your vessel needs to be capable of 10 knots under engine. Avoid crossing during peak flows, and seek local advice.

d'Urville Island is a good stop-over before venturing further into the Marlborough Sounds, with its wide range of cruising options and anchorages such as Tennyson Inlet in Pelorus Sound, which offers a protected anchorage.

Note that Tory Channel in Marlborough's Queen Charlotte Sound is the inter-island ferry route and a 'narrow channel' in maritime law, meaning you must declare your intention on VHF channels 16 and 19 before entering the area, keep to the starboard sides of the channel, avoid anchoring and give way to vessels over 45m long.

For more detailed information on sailing in Tasman Bay and the Marlborough Sounds refer to the book "New Zealand Cruising Guide".



→ yachting clubs



Tasman Bay Cruising Club welcomes contact from visiting boat owners.

You can join as a visiting member with one month's free membership to use the club facilities and join in the regular Wednesday evening and Saturday afternoon keeler races from Port Nelson out into Tasman Bay.

Alternatively you can pay a small fee to become a member. This entitles you to use a list of moorings owned and maintained by the club throughout nearby cruising grounds.

Physical Address: Akersten Street
Port Nelson

Postal Address: PO Box 5062
Nelson

Email: tbcc@xtra.co.nz

Phone: 03 546 8251

Fax: 03 546 8251

Sailing Waters: Tasman Bay

Nelson Yacht Club welcomes membership enquiries.

Physical Address: 322 Wakefield Quay,
Nelson

Postal Address: PO Box 5058
Nelson

Email: nyc@xtra.co.nz

Phone: 03 548 7501

Fax: 03 548 7502

Web: www.nyc.tasman.net

Sailing Waters: Nelson Haven /Tasman Bay

→ for more info

For general weather forecasts and information for Nelson, Tasman and Marlborough, please visit www.metservice.co.nz

→ fishing regulations

Nelson is known for its seafood and even from the shore it is possible to catch your own. The waters around Nelson provide some excellent fishing.

Within Tasman Bay a scallop enhancement programme benefits both recreational and commercial fishers. New Zealand is proud of its sustainably managed fisheries, and this extends to recreational fishing. The Ministry of Fisheries has strict guidelines for sea fishing, and you may be asked to 'open your bag' for a fisheries inspector. More detail and regulations online and net use is available from the Ministry of Fisheries - pick up a brochure or go to www.fish.govt.nz and search for the Challenger Area.

Three things to remember are:

- Don't take more than the daily limit
- Don't take undersized fish
- Don't sell or trade your catch.

Only people physically involved in fishing on board the craft may claim the daily bag limit.

Note the information on Marine Reserves on page 10.



→ sailing & marina information

The sheltered waters of Nelson Haven are home to Port Nelson and the Nelson Marina. Nelson City Council operates the 580-berth marina. Boat owners from Nelson, around New Zealand and even some from overseas have taken up nearly all the marina berth licences; drawn by the excellent facilities, the attractions of the Nelson region and its central location. Berths are rented, not purchased.

The marina is in a sheltered area and is not subject to sea surges. Nelson city has one of the lowest crime rates in Australasia and marina management has a security system in place to help protect vessels. The marina is surrounded by marine-related businesses and Nelson is a great place to spend time while your boat undergoes repairs.

berths

The Nelson Marina has berths for boats up to 20 metres. Most berths range from 10 - 15 metres. The average pontoon is 11 metres. Berths 'G' and 'H'

accommodate vessels up to 18 metres. Port Nelson has a super-yacht berth for larger vessels.

Visitors are very welcome and the Council has set aside visitor berths on 'D' pontoon to accommodate visiting vessels. For berth availability call the Marina Supervisor, Chris Hawkes (see 'contact' below). As the weather often changes people's plans, the marina does not take advance bookings. An informal booking of two or three days out from your ETA works best. If you are unable to make prior arrangements, come alongside the end of 'D' pontoon and report to the Marina Supervisor's office - the two-storey building at the end of 'D' dock. If Chris is not there, call the contact numbers.

marina facilities

The marina has toilets and showers. Electricity (three pin and round pin plugs - the marina is progressively changing over to all round pins) and safe drinking water is available at every berth. A pump is available for vessels wishing to discharge holding tanks.

A commercial laundromat operates close to the marina, with cafés and bars nearby. It is an easy 15 minute walk to the cafés, shops and galleries of the city centre; the airport is a short taxi ride away.

repairs

Choose from two cradle-lifts and one 50 tonne travel-lift to get your boat out of the water, as well as a crane that can be used for mast removal. Details on the wide range of marine repair businesses are covered in the second part of this publication, beginning on page 24.

→ contact

Marina Supervisor: Chris Hawkes

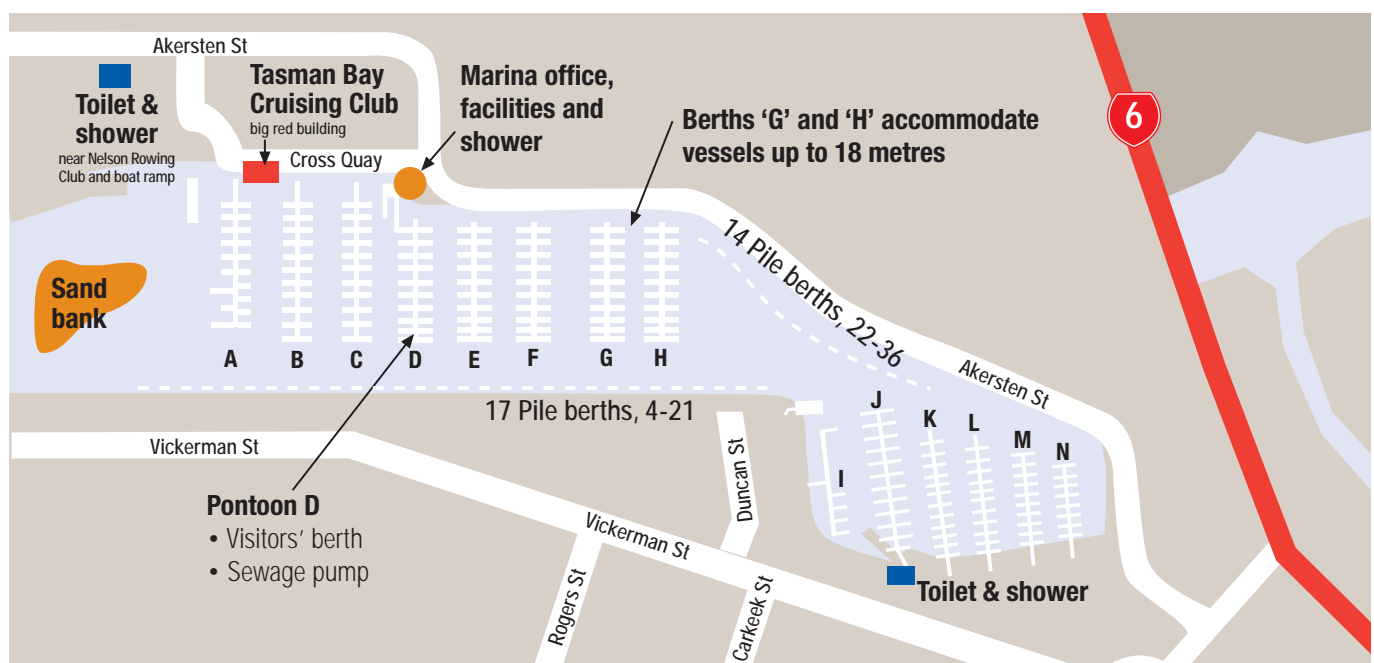
Phone: + 64 3 546 7768

Mobile: + 64 274 431 234

Fax: + 64 3 546 7940

Email: hawkeye@actrix.co.nz

→ berth layout





→ marina rates and services

visitor rates

- Less than 18 metres: \$18 inc GST per day*
- 18 - 20 metres: \$30 inc GST per day*
- Over 20 metres: \$3 inc GST per metre of vessel per day

Multi-hulls will be charged at 1.2 - 2.0 x single berth Visitor Rate inc GST.

*A surcharge of \$5 per person, per day, will apply where a vessel is carrying more than two persons over the age of ten years. The surcharge will apply only to the additional persons carried.

Pontoon D is the designated visitors' berth.

Pile Mooring: \$8 per day

All visitors MUST report to the Marina Supervisor. Private arrangements for berths are not allowed. All use of marina berths must go through the Marina Supervisor.

Visitors must report when they arrive and leave. If the Marina Supervisor is not advised of departure, ongoing charges will occur. A message can be left on the marina phone or a note put through the slot in the office door.

recreational boat harbour annual licensing and mooring fees

Marina Berth and Pile Mooring Application Charges

Deposit

A non-refundable deposit of \$100 must be paid with each application. This deposit will be credited to the applicant's first Annual Licence account, on allocation of a permanent mooring.

Development Levy

A once-only levy of \$80 plus GST per metre of vessel length will be charged to first time licence holders and will be added to the first year's Annual Licence Fee.

Marina Berths Annual Licence

\$186 plus GST per metre of vessel or part thereof per annum, or berth size, whichever is the greater.

Annual Licence Pile Mooring

\$90 plus GST per metre of vessel.

Swing Moorings

Registration fee of \$63 plus GST per vessel per annum.

Commercial Recreational Berths

A commercial or charter berth or storage park, if provided shall be charged at a rate 50% greater than the equivalent recreational berth or storage park fee.

Boat Storage Park Deposit

A non-refundable deposit of \$50 must be paid with each application. This deposit will be credited to the applicant's first account on allocation of a permanent parking lot.

Annual Storage

\$720 plus GST per space. Includes annual ramp fee.

Daily Storage

\$4.50 plus GST per space.

Public Boat Ramp - Annual Ticket

Valid 1 July 2007 - 30 June 2008

1 July - 30 June	\$85 (inc. GST)
1 Oct - 30 June	\$75 (inc. GST)
1 Jan - 30 June	\$65 (inc. GST)
1 Apr - 30 June	\$55 (inc. GST)
Casual use	\$ 5 (inc. GST per launch)

live aboard charge

\$105 plus GST per month plus annual mooring fee.

Showers, coin operated - NZ\$1.

Live-aboard rules - key points

Permanent live-aboards are allowed in the marina by permit only, which may be revocable by the Marina Supervisor or Nelson City Council at their discretion.

The maximum number of live-aboard berths is three per pontoon.

Berth holders waiting to live on board their boats are listed in order of their application date. The list is available for inspection in the Marina Supervisor's office. The order of allocation will be to the highest priority boat on the waiting list that best fills an available berth. Only owners and their immediate families are permitted to stay aboard.

Owners of boats that have arranged permanent berths, but are offsite, will be credited some fees if that berth is used during their time away.

There are other applicable conditions, so please contact Nelson City Council for the full list of conditions and requirements.

Please note: Although correct at the time of printing, all information and fees are subject to change, so check with the Marina Supervisor. Prices are quoted in New Zealand dollars and GST is 12.5%. All fees and charges relating to the length of a vessel shall be based on the overall length, measured from bow to stern including all fixtures such as bowsprits, self steering gear and davits.

→ for more info

Visit the Nelson City Council website:
www.nelsoncitycouncil.co.nz/go/marina.aspx

→ border control

international arrivals

Overseas visitors will need a passport, visa, evidence of funds of \$400 per month if living aboard, an outward ticket or evidence that you own the craft and have insurance against major damage, or a letter from the owner or captain confirming that you will be departing on the craft.

Contact the New Zealand Immigration Service for more information. Usually yacht owners and crew are allowed an initial stay of three months. The New Zealand Immigration Service can provide a list of nationals who do not need a visa.

customs

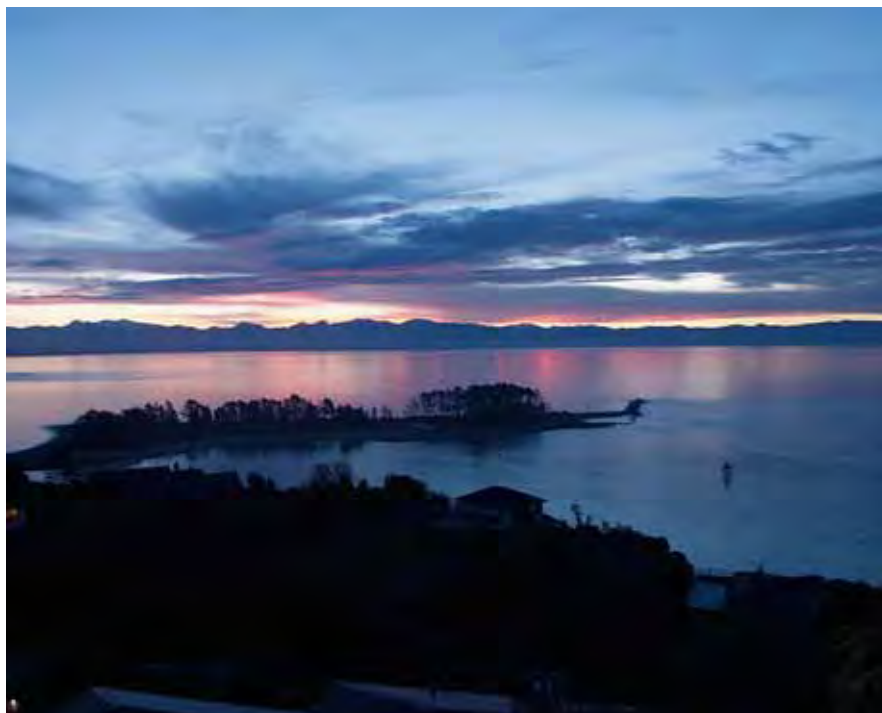
Nelson is an approved port of entry for customs and quarantine purposes. Confirm your arrival date/time not less than 48 hours in advance. Call Taupo Marine Radio on 4125Khz or 6215Khz or VHF Ch 16. Alternatively Nelson Marine Radio may be contacted on 4417Khz or VHF Ch 28/60. Within VHF range call Nelson Harbour Radio on Ch 16 to provide Customs/Quarantine with an accurate ETA.

On arrival from overseas, Nelson Harbour Radio will direct you to the clearance area, normally the super-yacht berth. Immediately following clearance you will be required to move to 'D' Pier at the Marina, where the supervisor will arrange a berth.

advance notice of arrival

New Zealand law requires the master of every craft en route to New Zealand to provide the following information at least 48 hours before the expected arrival time in New Zealand:

- Details of the craft
- Estimated date and time of arrival
- Customs port of entry at which the craft will arrive
- Details of all crew and passengers on board



- The name of the originating port and subsequent ports visited on the voyage to New Zealand.

The required information can be provided to Customs by completing the Small Craft Inward Report form and the Yachts and Small Craft Arrival Advance Information form, downloaded from www.customs.govt.nz or in hard copy. This completed documentation can be returned to Customs in either of two formats:

To fax, print Form C1B and Form NZCS 340, complete the details on the forms and fax to 03 358 0069

To email, download Form C1B txt version and Form NZCS 340 txt version to your hard drive, complete the details, save and email to yachts@customs.govt.nz

boating regulations

Speed limits: You must not exceed 5 knots when within:

- 200m of the shore or structure

- 50m of another vessel or person in the water
- 200m of the international diver flag
- Or if there is someone on the bow of your craft with any part of their body extended over the side.

Life jackets: You must have life jackets of the appropriate size for each person on board.

pollution

Cruising vessels must comply with marine pollution regulations prohibiting the discharge of untreated sewage within 500m of the shore, and within 100m of marine farms - you will see the distinctive black buoys of mussel lines in Golden Bay and the Marlborough Sounds. You may not discharge petroleum products into the sea. If you create or come upon an oil spill, please contact the local council.



biosecurity

As an exporter of agriculture and forest products, with a unique environment, New Zealand maintains strict biosecurity border controls. MAF Biosecurity New Zealand is responsible for ensuring that unwanted species, pests and diseases do not get in. Please ensure that your garbage is not thrown overboard within New Zealand waters.

On your arrival a MAF Biosecurity NZ quarantine inspector will meet and clear your vessel, crew and passengers for entry into New Zealand. Items that require assessment include:

- Live animals (pet food, animal remedies).
- Meat, including poultry (fresh, frozen, preserved, freeze-dried, dried) salami, jerky, biltong, lard.
- Fruit and vegetables (fresh, frozen, preserved, freeze-dried, dried).
- Dairy products - cheese, butter, yoghurt, milk (liquid, powdered, condensed), cream.
- Egg products - eggs (fresh, powdered), mayonnaises, egg packaging.
- Honey and bee products - beeswax, propolis, royal jelly.
- Freshwater fish and fish products - salmon, trout (preserved, smoked), caviar, shellfish.
- Stored products - popcorn, whole wheat, barley, wild rice, sunflower seeds, beans, soya beans, peas.
- Nuts (with shell) - walnuts, macadamia, hazel etc.
- Nursery stock - plants, cuttings.
- Seed (for sowing).
- Flowers (fresh, dried, pressed), leis.
- CITES* items - clams, turtle shells, coral, sea shells.

* Convention on International Trade in Endangered Species

- Native artifacts (with skin, feathers, bone, hair) wood carvings, bamboo, straw.
- Camping equipment - tents, fly tying materials.
- Bicycles.
- Vacuum cleaner.
- Refuse/garbage.

marine invaders

New Zealand is facing a number of recent marine organism invasions that have come from boat hulls or in ballast water. Please ensure your hull is clear of weeds, particularly that you do not carry the invasive weed *Undaria* into Nelson, Golden Bay or the Abel Tasman coastline.

You should also check for *Didemnum vexillum* also known as Whangamata sea squirt. Major projects are underway to manage this pest species in the Marlborough Sounds and it is known to be in Nelson Haven so every effort to prevent its spread is appreciated.

If you are cleaning your boat at the Nelson waterfront, dispose of the material carefully - not into the sea.

→ for more info

Contact

Customs

0800 4 customs
(0800 4 28786)

MAF Biosecurity NZ

+ 64 3 545 7774

→ contact

local councils

Nelson City

Phone: 03 546 0200

Email: enquiry@ncc.govt.nz

Web: www.nelsoncitycouncil.co.nz

Tasman District

(Abel Tasman & Golden Bay)

Phone: 03 543 8400

Email: info@tdc.govt.nz

Web: www.tdc.govt.nz

Marlborough District (the Sounds)

Phone: 03 578 5249

Email: mdc@marlborough.govt.nz

Web: www.marlborough.govt.nz

customs

Address: 10 Low Street

Port Nelson

Postal: PO Box 66, Nelson

Freephone:

0800 4 customs

(0800 4 28786)

Phone: 03 548 1484

A/H

Phone: 029 548 1483

Fax: 03 546 9381

Web: www.customs.govt.nz

biosecurity

MAF Biosecurity New Zealand

Address: 10 Low Street

Port Nelson

Postal: PO Box 7041, Nelson

Phone: 03 545 7774

Fax: 03 545 7775

Email: mqsnsn@maf.govt.nz

Web: www.biosecurity.govt.nz

Department of Conservation

<http://www.doc.govt.nz/cpnservation/biosecurity/index.asp>

→ entering nelson harbour

Nelson Haven is a sheltered natural harbour lying at the head of Tasman Bay, bounded by Nelson city on the mainland, and protected by the Boulder Bank - a natural 13km breakwater.

Port Nelson is a dredged harbour, bounded to the southwest by Haulashore Island and to the northeast by the mudflats of Nelson Haven. The harbour entrance, called 'the Cut', lies between the Boulder Bank and Haulashore Island and was made in 1906.

Port Nelson has an average of three large commercial vessel movements per day. Small recreational craft should keep well clear of the Cut when a ship is coming or going. The navigable channel from the Cut to the Dixon Basin (just before you enter the Marina) is (in terms of the Collision Regulations) deemed to be a 'narrow channel', an area where craft of less than 20m should not impede the passage of vessels that can have difficulty navigating such a channel. Nelson Harbour Radio may be contacted on VHF channel 12 for information on large vessel movements.

Wharves and port installations are situated on the southeast side of the harbour. A channel leads from the turning area at the northeast end of the harbour around the north end of the port area to the fishing vessels' wharf and to the marina.

Entry presents no special difficulties to yachts, although care should be taken in strong northerly winds on an ebbing tide. Port entry details are covered by Royal New Zealand Hydrographic Office chart NZ6142 though, as a rough guide, the adjacent chart shows the location of the marina and visitors' berth.

port nelson

Latitude: 41° 15.63'S

Longitude: 173° 16.85'E

Charts - refer NZ Chart Catalogue NZ6142.

approach

The most conspicuous seaward mark in the approach to Port Nelson is the north cardinal mark located in position 41° 13.99'N and 173° 14.16' E, approximately 2.1 nm NNW of the Cut. Light: Quick flash White. Structure Black/Yellow. Topmark: two black triangles point upward.

Outer leading lights: From the pilot boarding place, the alignment (164 3/4°) of leading lights in the white sector (164° - 165 1/2°) off the front light, which is a direction light situated close east of Haulashore Island, leads towards the Cut. Proceed through the centre of the dredged channel, passing west of the Boulder Bank.

Front light: Directional Red White Green, (white triangle, point up, on piles) (41° 16.2'S, 173° 15.4'E).

Rear light: Blue neon, (white triangle, point down) (3 1/4 cables south-southeast of the front light).

The outer leads open from a vessel to east of track.

The dredged channel is 180 metres wide and there are shoals either side of the entrance. The shoal on the northern side of the entrance is known as the 'outer shoal'. In bad weather and when the wind is against the tide, this shoal produces waves which are dangerous to small craft. Small craft should note the positions of the red sectors of the Schnapper light (41° 12.2'S 173° 19.4'E) and the Landfall light (41° 15.35'S 173° 16.80'E). These have been placed to keep craft away from this shoal. Avoid these conditions.

Caution - trees on Haulashore Island partially obscure the rear leading light from the north.

Useful marks:

Old Lighthouse: 41° 15.3'S, 173° 15.9'E

Cement Silo: 41° 15.8'S, 173° 16.15'E

entry

Inner leading lights: From a position 6 cables northwest of the front light, the alignment (135 1/2°) of the lights leads vessels through the main entrance.

Front light: Green neon, (white triangle, point up) (41° 16.2'S, 173° 15.4'E)

Rear light: Green neon, (white triangle, point down) (1 3/4 cables southeast of front light)

The dredged channel is 150 metres wide and passes between the south mole which extends northwest from Haulashore Island on the southwest side of the channel and Boulder Bank on the northeast side of the channel. When abeam No 1 beacon (41° 15.7'S, 173° 15.5'E) large vessels should commence a turn to port passing southeast of piles, from which lights are exhibited, marking the northwest and north edge of the dredged channel.

Haulashore Island turning marks: Front light, white diamond (41° 15.9'S, 173° 15.5'E) rear light (white triangle) 1/2 cable west of front light. These mark a line through the centre of the turn. They should not be used as leads. They are of most use when outward bound.

in simple terms . . .

Entry to the marina is through the Cut, the outer moles are marked **RED** (port) and **GREEN** (starboard). Refer to the diagram on page 17. Take a line on the inner leading lights.

Vessels follow the port pole markers down the harbour. The marina entrance is the last in the port area - the marina itself is not immediately visible, as the waterway bends to the right. Maintain a good lookout for fishing vessels entering and leaving this area.

On rounding the bend into the marina, the distinctive red Tasman Bay Cruising Club building can be seen on the left.

Keep clear of the sandbar until close to the pontoons.

→ port nelson

Like most New Zealand cities, Nelson has grown up around its port. Today Port Nelson handles two and a half million tonnes of cargo annually, from export logs to imported cars. Port Nelson is an export centre - the region's gateway to the world for key sectors such as fishing, horticulture, forestry and manufactured timber products.

Port Nelson is the busiest fishing port in Australasia, home to New Zealand's major seafood companies, processing and exporting wetfish from southern oceans and shellfish from aquaculture enterprises around the waters of the Marlborough Sounds and Golden Bay.

Nelson's forestry sector exports quality logs for further processing overseas, as

well as sawn timber, Medium Density Fibreboard (MDF) and Laminated Veneer Lumber (LVL).

The horticultural sector has developed niche markets around the world for quality varieties of apples, pears and kiwifruit that are shipped by container and specialised reefer vessels to reach world markets in top condition.

Port Nelson is owned by the two local councils and regularly returns a dividend to the people of the Nelson/Tasman region. It also plays a community role by sponsoring sports, arts, cultural events and community groups and is actively involved in developing Nelson's marine engineering cluster. Port Nelson is a good neighbour with an environmental policy

developed in consultation with residents, port users and conservation groups. It gained international environmental ISO 14001 certification in 2007.

As the centre for the seafood industry, Port Nelson has deepwater berths for large trawlers, with the reclamation a base for the many businesses servicing the fishing industry and the recreational boatie.

As imports and exports increase in the region, continual planning to maintain and improve the port berths, security and terminal infrastructure is essential to cater for the international shipping lines and the region's cargo interests. These rely on the port to provide efficient and competitive services as the gateway to their world markets.

→ street map of port nelson





PORT NELSON

The Region's Gateway to the World

Marine Operations Manager **P:** + 64 3 548 2099
10 Low Street, Port Nelson **F:** + 64 3 546 9015
P O Box 844, Nelson 7015 **E:** info@portnelson.co.nz
www.portnelson.co.nz

Lay-up Berths

Lay-up and Super Yacht facilities, are located adjacent to major fishing companies and provide a handy point for water, bunkering and repair use.

Port Nelson offers two Lay-up berths and a Super-Yacht berth:

Lay-up No 1: 110 metres (8.0 metre draft)
bookings of 36 hours maximum
subject to other vessels requiring
bunker facilities.

Lay-up No 2: 110 metres (7.0 metre draft)
bookings of longer than two days.

Super Yacht berth: 60 metres (5.5 metre draft)
bookings subject to availability.



→ marine **Safety**



Maritime New Zealand has the principal objective, set out in the Maritime Transport Act 1994, to undertake activities that promote a safe maritime environment. It also operates the Rescue Coordination Centre of New Zealand and a 24 hour emergency number - see contact panel.

Most of the rules guiding maritime safety are the same for both recreational boating and commercial operators.

The Maritime Transport Act 1994 places responsibility on the skipper or person in charge of every vessel for:

- The safety of the vessel
- The safety of all persons on board
- Compliance with all maritime rules and other regulations and bylaws

The Navigation Safety Rule includes the requirement for every boat to carry a correctly sized, serviceable personal flotation device (PFD) for each person on board; and regulates the age for driving power boats, the speed that boats may travel and the waterskiing rules.

The Collision Prevention Rules, which apply to waters all over the world, include such requirements as keeping a proper lookout, travelling at a safe speed, showing the correct lights and give way rules when vessels meet.

Navigation Safety Bylaws are in place where regional councils have jurisdiction over water in their area. These bylaws have essentially the same requirements as the Navigation Safety Rules, so anyone operating a boat anywhere in New Zealand knows that the same requirements apply everywhere.

The full details of maritime rules and safety guides are best viewed at www.maritimenz.govt.nz



fire safety

For your safety during your stay and to allow us to provide you with a prompt service should you require it, please note the following:

The number to dial in case of any emergency is: 111.

To allow us to find you quickly please ensure that you state clearly:

- The nature of the emergency
- Where you are moored/berthed
- The name of your vessel.

For your safety during your stay, NZ Fire Service recommends that you follow these safety tips:

- **Install a smoke alarm** - boat fires have the potential to be fatal. Fires travel extremely quickly and the added dangers of gas cylinders make smoke alarms essential.
- **An escape route is important** - even when staying on a boat, ensure all people, especially children, have a clear understanding of what to do in the event of a fire.
- **Ensure the gas cylinders are serviced regularly** - gas leaks can have an explosive effect on you and your family. Preferably turn off gas supplies at the cylinder when people are sleeping.
- **Keep a close eye on the stove when cooking** - kitchen fires can happen on boats just as easily as in

your home, only the consequences can be far more severe.

- **An extinguisher** located near the point of entry to the vessel is strongly recommended. Make sure you are aware how to use it safely.
- **Power cords** - ensure your power cords are in good condition. Replace or repair any frayed parts, loose plugs, etc.
- **Smoking** - don't smoke while refuelling, fumes are highly flammable.
- **Take care with alcohol** - particularly when cooking. Too much alcohol is a major cause of kitchen fires. 'Don't drink and fry'.

→ contact

Maritime New Zealand

Address: Shipping House
36 Graham St, PO Box 5015, Nelson
Phone: 03 548 2434
Mobile: 021 244 44 80

Rescue Coordination Centre NZ

Phone: 04 914 8380
Fax: 04 914 8388

24 Hour Emergency Numbers

From NZ phone: 0508 472 269
From outside NZ: +64 4 914 8389
www.maritimenz.govt.nz

Nelson Volunteer Coastguard Inc

Phone: 03 548 8300

→ local marine radio

Nelson Marine Radio operates a weather, safety and incoming message service on VHF Marine Repeater Channel MM28 (Tasman Bay) and MM60 (Golden Bay, West Coast) at 0910-0920, 1310 - 1320 and 1815 - 1835 NZDT.

Nelson Marine Radio also operates high frequency SSB channel 4417kHz with a broadcast of the marine weather forecast from 0840 - 0900 and 1820 - 1840 NZDT, with space for calling. It is a good safety measure for vessels in Nelson waters to let the Marine Radio know their whereabouts.

Join your local Marine Radio Association and use these channels with a clear conscience.

Port Nelson Ltd: Maintains a listening watch on Channels MM16 & MM12 primarily for use in the day to day management of the port.

Marlborough Marine Radio: Operates a similar service to Nelson, focusing primarily on Marlborough Sounds coverage. Marine VHF Repeater Channels MM5 (French Pass), MM65 Pelorus Sound, MM63 Queen Charlotte Sound and MM1 Greater Marlborough Sounds.

NZ Maritime Radio: Operates a continuous listening watch on the International Calling and Distress Channel 16 from the following sites and with associated working channels: Farewell MM68, d'Urville Island MM67, Picton MM68 and Wellington MM71.

Coastal Warnings and Weather Bulletins: 0533, 0733, 1333, 1733 and 2133 NZDT.

Royal NZ Coast Guard: Continuous Weather Broadcast Channel MM22 located at Mt Campbell.

→ radio frequencies



→ marine forecast schedule

Time	Channel		
0533	67	68	71
0733	67	68	71
0910	28	60	
1310	28	60	
1333	67	68	71
1733	67	68	71
1815	28	60	
2133	67	68	71

→ contact

Nelson Marine Radio

Sandy Johnson

Phone: 03 528 7629

Mobile: 021 213 1350

Email: nelsonmarineradio@xtra.co.nz



→ yacht build & refit services

Kiwi yachtsman Chris Bouzaid on Nelson's strength in refit work:

“ Nelson's role as a fishing port has created an infrastructure second to none, and there is nothing one cannot buy for a yacht within walking distance of the marina.”

Chris reckons Nelson's prices are better than Auckland's: “In short this is the best place in New Zealand for working on your boat or having a refit done.”

→ key strengths

- One point of contact, Refit Nelson
- Large, diverse and very experienced workforce
- Experienced companies used to serving a demanding local market
- Skilled project management
- Regional travel hub for personnel and spare parts
- One of the most sought after lifestyle locations in New Zealand
- Great cruising grounds with choice depending on which way the wind is blowing
- Well-known Kiwi charm, plus safety and security
- Favourable exchange rate
- Pickup and delivery service
- Client confidentiality
- No Goods and Service Tax (GST) payable by visiting overseas vessels with temporary import permit.

When the world's best sailors build boats you get world-class kiwi innovation. New Zealand is a group of Pacific islands, Kiwis are competitive sailors, inventors, fishermen, match racers, round-the-world voyagers, explorers . . . and leaders in marine technology and boat building.

why come to nelson, new zealand for your yacht build or refit?

The Nelson region offers three critical success factors:

Skill base: Having worked on numerous refit and build projects over many years for local, national and international clients, Refit Nelson offers high-tech CAD computer design, skilled project management, quality materials, traditional techniques and new innovations. Refit Nelson brings together the trade and specialist skills needed for your build or refit.

Infrastructure: Nelson is home to the biggest fishing fleet in the southern hemisphere and has the marine infrastructure to match. It has the largest slipway in New Zealand and the best range of marine services in the country. The location of the port means that everything is very close to the job in hand. There is no travelling to find parts or services - just an ten-minute walk from the port or marina to the centre of town.

Environment: Nelson has the highest annual sunshine hours in New Zealand at 2,420 hours. That means more working days as well as providing a fantastic lifestyle location for owners and crew to live and play while working on their boats. Nelson has three beautiful national parks nearby, plus vineyards, restaurants, cafés and beaches.

what is refit nelson?

Refit Nelson is a team of specialist companies combined to give the client a total service.



It means effortless access to a highly-skilled workforce of craftspeople, technicians, spare parts supply, project managers and professional leaders. They are all ready to begin work on your project, and they already know how to work together. Plus, it all comes with the convenience of a single point of contact.

refit nelson specialists

Refit managers, naval architects, boat builders, electricians, electronics systems, plumbers, upholstery, port services, refrigeration, air conditioning, fitters, painters, sailmakers, riggers, mechanics, engineers and cabinet makers.

If you are looking for other specialist skills, you will find the expert for every task here.

facilities

Berths: Port Nelson has five lay-up berths and two luxury yacht berths with a further six berths planned for 30 metre-plus yachts.

Facilities at Port Nelson include covered workshops, machine shops, spring manufacturers, 'hot shops' and fabrication shops, overhead gantry cranes, plate handling, cutting and welding, including underwater welding and a 50 tonne travel lift.

→ contact

Basil Hart

Phone: 03 546 9024

Rocka Romcke

Phone: 021 498 710

Fax: 03 546 8515

Email: projects@refitnelson.co.nz

www.refitnelson.co.nz

→ nelson engineering cluster



total marine services

Port Nelson provides deepwater berths for large trawlers, and the deepwater fishing fleets of two of New Zealand's largest fishing companies, Amaltal and the Sealord Group, are based here.

To support the large fishing and marine repair industries, around 25 marine and general engineering firms in Nelson generate \$80m annual turnover with over 500 full time staff. Support companies generate \$40m turnover with around 250 full time staff.

Nelson Engineering Cluster is a group of specialist marine construction and repair companies. Working seamlessly, the cluster is able to take on major commercial boat building, survey and repair work and provide a single point of contact to co-ordinate tenders and direct enquiries. The cluster has helped to earn Nelson a reputation throughout the South Pacific for quality and efficiency.

world beating advantages

1. Technology

- Specialist marine construction and repair companies
- Full range of specialist technologies and capabilities
- Comprehensive infrastructure: slipways and lay-up berths

2. Expertise

- Solid reputation and track record
- Skilled and flexible workforce
- Competitive rates

3. Sunny Nelson

- Year-round sunny, mild climate
- Quality of life
- Central location and accessibility

4. Project management experience

- On budget
- On time.

design and build vessels

Nelson has several boat designers with a proven record in building world-class boats. Skilled local teams can take your project from the drawing board to completion. We build:

- Defence support craft
- Cargo carriers

- Inshore fishing vessels, coastal/offshore boats
- Aquaculture service vessels
- Commercial and tourist craft, jet boats and runabouts
- Barges and work boats
- Chase boats or skiffs for purse seiners
- Ocean-going cruisers.

for commercial marine repair or rebuild - think Nelson

Nelson is one of the major marine repair ports in New Zealand. Design and build on existing vessels includes:

- Vessel lengthening (100 tonne up to 500 tonne)
- Refits (up to 2500 tonne if slipping required)
- Survey work all vessels (up to 2500 tonne if slipping required).

All secondary work can be done here in Nelson - including surveys, plating, shafts, props, slip, electronics, navigation, safety, provedoring, covers, ropes and rigging nets.

Competencies include:

- Turnaround maintenance
- Fit outs and rebuilds
- Salvage and repairs
- Underwater maintenance
- Slipping, cleaning and painting.

Supporting the repair and build industries are a full range of capabilities: design and build, survey, refit, vessel lengthening, parts fabrication and special design work, welding, electrics, electronics systems, plumbing, upholstery, port services, insulation, refrigeration, air conditioning, fitting, painting, sail making, rigging, mechanics, cabinet making.

there's more...

While you're in port, why not take the opportunity to up-skill your crew? Contact the Nelson Marlborough Institute of Technology (phone 03 546 9175) for its range of marine programmes.

Facilities at Port Nelson include covered workshops, machine shops, spring manufacturers, 'hot shops' and fabrication shops, overhead gantry cranes, plate handling, cutting and welding, including underwater welding.

slipways

Nelson has a slipway with a capacity of 2500 tonnes. There is also a 120 tonne slipway with a transfer system enabling 16 vessels to be out of the water at any one time. Two cradle lifts and a 50 tonne travel lift for work on smaller vessels complement the marina's capacity.

→ key strengths

- Innovative and flexible - a number of unique vessels have been designed and built in Nelson
- Full range of capabilities - design and build vessels in steel, composite, fibreglass, wood, alloy
- Specialist fittings and one-off productions - specially made parts, large and small, are made locally and tailored to the needs of the industry
- Fast turnaround - reliable work force, great climate means more working days
- Health and Safety - members comply with New Zealand Occupational Health and Safety requirements
- Electronics - expert knowledge, system design, supply, installation
- Proximity - most of the engineering and support firms are at the port.

→ contact

For information about the Nelson Engineering Cluster capabilities, or to discuss any project work, please contact:

Ian Wheeler, Business Manager

Mobile: 027 2222 354

Fax: 03 546 9050

Email: info@nelsonengineering.co.nz

Postal: PO Box 5057, Port Nelson, NZ

www.nelsonengineering.co.nz

→ directory of advertisers

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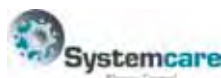


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→ september 2007

	Lows		Highs	
	am	pm	am	pm
1 Sa	5:50 0.3	6:12 0.4		12:18 4.3
2 Su	6:33 0.5	6:55 0.6	12:33 4.3	12:59 4.1
3 Mo	7:18 0.7	7:45 0.9	1:19 4.0	1:43 3.8
4 Tu	8:08 1.0	8:52 1.2	2:11 3.7	2:35 3.5
5 We	9:09 1.3	10:25 1.4	3:11 3.4	3:44 3.3
6 Th	10:32 1.5	11:54 1.4	4:23 3.2	5:22 3.2
7 Fr		12:11 1.5	5:44 3.2	6:57 3.3
8 Sa	1:01 1.2	1:28 1.3	7:03 3.3	7:59 3.6
9 Su	1:54 1.0	2:22 1.1	8:06 3.5	8:43 3.8
10 Mo	2:38 0.8	3:04 0.9	8:55 3.7	9:21 4.0
11 Tu	3:16 0.7	3:39 0.7	9:35 3.9	9:54 4.1
12 We	3:51 0.6	4:09 0.6	10:11 4.0	10:26 4.2
13 Th	4:23 0.5	4:37 0.6	10:44 4.1	10:56 4.1
14 Fr	4:54 0.5	5:04 0.6	11:15 4.1	11:27 4.0
15 Sa	5:25 0.6	5:32 0.7	11:46 4.0	11:58 3.9
16 Su	5:57 0.7	6:02 0.8		12:17 3.9
17 Mo	6:31 0.8	6:35 1.0	12:30 3.7	12:49 3.8
18 Tu	7:07 1.0	7:13 1.3	1:06 3.5	1:24 3.6
19 We	7:50 1.2	8:04 1.5	1:49 3.3	2:05 3.3
20 Th	8:43 1.5	9:24 1.7	2:43 3.1	3:01 3.1
21 Fr	9:56 1.6	11:06 1.6	3:52 3.0	4:27 3.0
22 Sa	11:28 1.6		5:14 3.0	6:02 3.2
23 Su	12:19 1.4	12:45 1.4	6:31 3.1	7:09 3.4
24 Mo	1:13 1.1	1:41 1.0	7:34 3.4	7:59 3.8
25 Tu	1:58 0.8	2:28 0.7	8:25 3.7	8:42 4.1
26 We	2:40 0.5	3:09 0.4	9:10 4.0	9:22 4.4
27 Th	3:22 0.3	3:49 0.2	9:52 4.3	10:03 4.5
28 Fr	4:04 0.2	4:29 0.1	10:34 4.4	10:44 4.6
29 Sa	4:46 0.2	5:09 0.2	11:15 4.5	11:27 4.4
30 Su	6:29 0.3	6:51 0.4		12:58 4.4

→ october 2007

	Lows		Highs	
	am	pm	am	pm
1 Mo	7:13 0.5	7:36 0.6	1:12 4.2	1:38 4.1
2 Tu	8:00 0.8	8:30 1.0	2:00 3.9	2:24 3.8
3 We	8:52 1.1	9:41 1.3	2:54 3.6	3:18 3.5
4 Th	9:57 1.4	11:16 1.5	3:57 3.3	4:30 3.3
5 Fr	11:24 1.5		5:12 3.1	6:10 3.2
6 Sa	12:39 1.4	12:58 1.5	6:34 3.1	7:38 3.3
7 Su	1:42 1.2	2:08 1.3	7:49 3.3	8:34 3.6
8 Mo	2:31 1.0	2:58 1.1	8:47 3.5	9:16 3.8
9 Tu	3:12 0.9	3:37 0.9	9:31 3.7	9:51 3.9
10 We	3:49 0.7	4:10 0.8	10:09 3.9	10:24 4.0
11 Th	4:23 0.6	4:39 0.7	10:43 4.0	10:55 4.1
12 Fr	4:55 0.6	5:07 0.6	11:15 4.1	11:25 4.0
13 Sa	5:26 0.6	5:35 0.6	11:47 4.1	11:56 4.0
14 Su	5:57 0.6	6:04 0.7		12:18 4.1
15 Mo	6:30 0.7	6:35 0.8	12:28 3.8	12:50 4.0
16 Tu	7:05 0.9	7:09 1.0	1:02 3.7	1:22 3.8
17 We	7:42 1.0	7:49 1.2	1:39 3.5	1:58 3.6
18 Th	8:25 1.2	8:41 1.4	2:22 3.3	2:39 3.4
19 Fr	9:17 1.4	9:53 1.5	3:16 3.1	3:34 3.3
20 Sa	10:26 1.5	11:21 1.5	4:23 3.0	4:50 3.2
21 Su	11:49 1.5		5:39 3.1	6:16 3.3
22 Mo	12:35 1.3	1:05 1.3	6:55 3.2	7:26 3.5
23 Tu	1:33 1.1	2:06 1.0	7:59 3.5	8:20 3.8
24 We	2:23 0.8	2:56 0.7	8:54 3.8	9:08 4.1
25 Th	3:10 0.5	3:41 0.4	9:43 4.1	9:53 4.3
26 Fr	3:56 0.3	4:25 0.2	10:28 4.3	10:37 4.4
27 Sa	4:42 0.2	5:08 0.2	11:12 4.5	11:22 4.4
28 Su	5:28 0.2	5:51 0.2	11:55 4.5	
29 Mo	6:14 0.4	6:36 0.4	12:08 4.3	12:39 4.4
30 Tu	7:01 0.6	7:25 0.7	12:56 4.1	1:23 4.2
31 We	7:49 0.8	8:21 1.0	1:47 3.8	2:11 3.9

→ november 2007

	Lows		Highs	
	am	pm	am	pm
1 Th	8:42 1.1	9:31 1.2	2:42 3.6	3:05 3.6
2 Fr	9:43 1.3	10:51 1.4	3:44 3.3	4:13 3.3
3 Sa	10:59 1.5		4:52 3.2	5:37 3.2
4 Su	12:05 1.4	12:22 1.5	6:05 3.2	6:55 3.3
5 Mo	1:05 1.3	1:31 1.4	7:14 3.2	7:52 3.5
6 Tu	1:55 1.1	2:22 1.2	8:12 3.4	8:37 3.6
7 We	2:38 1.0	3:04 1.0	8:59 3.6	9:15 3.7
8 Th	3:17 0.9	3:39 0.9	9:39 3.8	9:50 3.8
9 Fr	3:53 0.8	4:11 0.8	10:16 3.9	10:24 3.9
10 Sa	4:29 0.7	4:42 0.7	10:50 4.0	10:58 3.9
11 Su	5:03 0.7	5:12 0.7	11:24 4.0	11:32 3.8
12 Mo	5:38 0.7	5:44 0.8	11:57 4.0	
13 Tu	6:13 0.8	6:18 0.8	12:08 3.7	12:30 4.0
14 We	6:49 0.9	6:55 1.0	12:45 3.6	1:05 3.9
15 Th	7:28 1.0	7:37 1.1	1:25 3.5	1:42 3.7
16 Fr	8:10 1.1	8:27 1.2	2:09 3.4	2:24 3.6
17 Sa	8:59 1.2	9:28 1.3	2:59 3.3	3:15 3.5
18 Su	9:57 1.3	10:36 1.3	3:56 3.2	4:19 3.4
19 Mo	11:07 1.4	11:44 1.2	5:01 3.2	5:31 3.4
20 Tu		12:21 1.3	6:10 3.3	6:39 3.6
21 We	12:47 1.0	1:28 1.0	7:19 3.5	7:40 3.8
22 Th	1:45 0.9	2:26 0.8	8:22 3.7	8:34 4.0
23 Fr	2:40 0.7	3:17 0.6	9:17 4.0	9:25 4.1
24 Sa	3:34 0.5	4:06 0.4	10:08 4.2	10:15 4.2
25 Su	4:26 0.4	4:52 0.3	10:56 4.3	11:05 4.2
26 Mo	5:16 0.4	5:39 0.4	11:42 4.4	11:55 4.1
27 Tu	6:05 0.5	6:27 0.5		12:27 4.3
28 We	6:53 0.6	7:16 0.7	12:46 4.0	1:12 4.2
29 Th	7:40 0.8	8:10 0.9	1:37 3.8	1:59 4.0
30 Fr	8:27 1.0	9:08 1.1	2:29 3.6	2:49 3.7

Adjusted for Daylight Saving

Adjusted for Daylight Saving

→ december 2007

	Lows		Highs	
	am	pm	am	pm
1 Sa	9:18 1.2	10:09 1.2	3:22 3.4	3:46 3.5
2 Su	10:17 1.4	11:11 1.3	4:17 3.3	4:49 3.4
3 Mo	11:25 1.5		5:16 3.2	5:55 3.3
4 Tu	12:09 1.3	12:36 1.5	6:19 3.2	6:55 3.3
5 We	1:03 1.3	1:37 1.4	7:22 3.3	7:48 3.4
6 Th	1:54 1.2	2:26 1.3	8:19 3.4	8:34 3.5
7 Fr	2:41 1.1	3:09 1.1	9:08 3.6	9:16 3.6
8 Sa	3:26 1.0	3:46 1.0	9:51 3.7	9:57 3.6
9 Su	4:08 0.9	4:22 0.9	10:29 3.8	10:37 3.7
10 Mo	4:48 0.9	4:56 0.8	11:06 3.9	11:16 3.7
11 Tu	5:26 0.8	5:31 0.8	11:41 4.0	11:56 3.7
12 We	6:02 0.8	6:07 0.8		12:16 4.0
13 Th	6:39 0.8	6:46 0.8	12:36 3.7	12:52 4.0
14 Fr	7:16 0.8	7:27 0.9	1:16 3.6	1:29 3.9
15 Sa	7:55 0.9	8:12 0.9	1:57 3.6	2:10 3.8
16 Su	8:38 1.0	9:02 1.0	2:41 3.5	2:56 3.7
17 Mo	9:28 1.1	9:57 1.1	3:28 3.5	3:50 3.6
18 Tu	10:28 1.2	10:57 1.1	4:22 3.4	4:51 3.6
19 We	11:39 1.2		5:25 3.4	5:57 3.6
20 Th	12:01 1.1	12:53 1.1	6:38 3.4	7:01 3.6
21 Fr	1:08 1.0	2:01 1.0	7:52 3.6	8:04 3.7
22 Sa	2:15 0.9	3:00 0.8	8:58 3.8	9:03 3.8
23 Su	3:20 0.8	3:53 0.6	9:55 4.0	10:01 3.9
24 Mo	4:18 0.7	4:43 0.5	10:46 4.2	10:56 4.0
25 Tu	5:11 0.6	5:31 0.5	11:33 4.3	11:48 4.0
26 We	5:59 0.5	6:18 0.5		12:17 4.3
27 Th	6:43 0.6	7:04 0.6	12:37 4.0	1:00 4.2
28 Fr	7:24 0.7	7:49 0.8	1:24 3.9	1:42 4.1
29 Sa	8:03 0.8	8:35 0.9	2:08 3.8	2:25 3.9
30 Su	8:43 1.0	9:21 1.1	2:50 3.6	3:10 3.7
31 Mo	9:27 1.2	10:08 1.2	3:34 3.5	3:59 3.5

Adjusted for Daylight Saving

→ january 2008

	Lows		Highs	
	am	pm	am	pm
1 Tu	10:19 1.4	11:00 1.3	4:21 3.3	4:52 3.3
2 We	11:25 1.5	11:57 1.4	5:14 3.2	5:51 3.2
3 Th		12:41 1.6	6:19 3.1	6:50 3.2
4 Fr	12:59 1.4	1:47 1.5	7:31 3.2	7:49 3.2
5 Sa	2:02 1.4	2:40 1.3	8:36 3.3	8:44 3.3
6 Su	3:01 1.3	3:25 1.2	9:28 3.5	9:35 3.4
7 Mo	3:51 1.1	4:05 1.0	10:12 3.7	10:22 3.5
8 Tu	4:35 1.0	4:42 0.8	10:50 3.9	11:05 3.6
9 We	5:13 0.8	5:19 0.8	11:26 4.0	11:46 3.7
10 Th	5:49 0.7	5:55 0.7		12:01 4.1
11 Fr	6:24 0.6	6:33 0.6	12:25 3.8	12:37 4.2
12 Sa	6:59 0.6	7:12 0.6	1:03 3.9	1:14 4.2
13 Su	7:35 0.6	7:52 0.7	1:40 3.9	1:52 4.1
14 Mo	8:15 0.7	8:36 0.8	2:19 3.8	2:35 4.0
15 Tu	8:59 0.9	9:24 0.9	3:01 3.7	3:23 3.8
16 We	9:54 1.1	10:18 1.0	3:48 3.6	4:18 3.7
17 Th	11:03 1.2	11:22 1.2	4:46 3.4	5:21 3.5
18 Fr		12:27 1.3	6:01 3.3	6:30 3.5
19 Sa	12:38 1.2	1:45 1.2	7:30 3.4	7:42 3.5
20 Su	2:02 1.2	2:50 1.0	8:48 3.6	8:52 3.6
21 Mo	3:16 1.0	3:46 0.8	9:49 3.9	9:55 3.7
22 Tu	4:16 0.8	4:35 0.6	10:39 4.1	10:51 3.9
23 We	5:05 0.6	5:21 0.5	11:23 4.2	11:39 4.0
24 Th	5:47 0.5	6:03 0.5		12:03 4.3
25 Fr	6:25 0.5	6:43 0.5	12:23 4.0	12:42 4.3
26 Sa	6:59 0.6	7:21 0.6	1:02 4.0	1:19 4.2
27 Su	7:32 0.7	7:58 0.8	1:39 3.9	1:55 4.0
28 Mo	8:04 0.9	8:34 0.9	2:15 3.8	2:32 3.8
29 Tu	8:39 1.1	9:13 1.1	2:50 3.7	3:12 3.6
30 We	9:20 1.3	9:57 1.3	3:29 3.5	3:57 3.4
31 Th	10:15 1.5	10:49 1.4	4:14 3.3	4:50 3.2

Adjusted for Daylight Saving

→ february 2008

	Lows		Highs	
	am	pm	am	pm
1 Fr	11:35 1.7	11:57 1.6	5:13 3.1	5:53 3.1
2 Sa		1:04 1.7	6:34 3.0	7:03 3.0
3 Su	1:21 1.6	2:12 1.5	8:01 3.1	8:13 3.1
4 Mo	2:35 1.4	3:02 1.3	9:05 3.3	9:15 3.3
5 Tu	3:31 1.2	3:44 1.1	9:51 3.6	10:06 3.5
6 We	4:15 1.0	4:23 0.9	10:29 3.9	10:49 3.7
7 Th	4:53 0.8	4:59 0.7	11:05 4.1	11:28 3.9
8 Fr	5:28 0.6	5:36 0.5	11:40 4.2	
9 Sa	6:02 0.4	6:13 0.4	12:06 4.0	12:16 4.3
10 Su	6:37 0.4	6:51 0.4	12:42 4.1	12:53 4.3
11 Mo	7:13 0.4	7:30 0.5	1:19 4.1	1:31 4.3
12 Tu	7:51 0.6	8:12 0.6	1:56 4.0	2:13 4.1
13 We	8:34 0.8	8:57 0.8	2:36 3.9	2:59 3.9
14 Th	9:27 1.1	9:49 1.1	3:21 3.7	3:53 3.6
15 Fr	10:40 1.3	10:54 1.3	4:17 3.4	4:56 3.4
16 Sa		12:14 1.4	5:37 3.2	6:11 3.3
17 Su	12:23 1.4	1:38 1.3	7:20 3.2	7:32 3.3
18 Mo	2:00 1.4	2:43 1.1	8:43 3.5	8:48 3.4
19 Tu	3:13 1.1	3:36 0.8	9:41 3.8	9:51 3.6
20 We	4:07 0.9	4:22 0.7	10:26 4.0	10:41 3.8

→ **march 2008**

	Lows		Highs					
	am	pm	am	pm				
1 Sa	10:35	1:7	4:17	3:1	5:04	3:0		
2 Su		12:17	1:7	5:36	3:0	6:21	2:9	
3 Mo	12:36	1:7	1:36	1:6	7:17	3:0	7:41	3:0
4 Tu	2:01	1:5	2:30	1:3	8:30	3:3	8:48	3:2
5 We	3:00	1:3	3:14	1:1	9:19	3:6	9:40	3:5
6 Th	3:44	1:0	3:54	0:8	9:59	3:9	10:23	3:8
7 Fr	4:23	0:7	4:32	0:6	10:36	4:1	11:02	4:0
8 Sa	4:59	0:5	5:10	0:4	11:12	4:3	11:40	4:2
9 Su	5:35	0:3	5:49	0:3	11:50	4:4		
10 Mo	6:12	0:3	6:28	0:3	12:18	4:3	12:28	4:4
11 Tu	6:50	0:3	7:09	0:4	12:56	4:3	1:09	4:3
12 We	7:30	0:5	7:52	0:6	1:35	4:2	1:53	4:1
13 Th	8:16	0:8	8:39	0:9	2:16	4:0	2:41	3:8
14 Fr	9:13	1:1	9:33	1:2	3:03	3:7	3:37	3:5
15 Sa	10:33	1:4	10:44	1:4	4:01	3:4	4:44	3:3
16 Su		12:09	1:4	5:27	3:2	6:02	3:2	
17 Mo	12:21	1:5	1:28	1:3	7:13	3:2	7:27	3:2
18 Tu	1:54	1:4	2:28	1:1	8:30	3:5	8:40	3:4
19 We	2:59	1:2	3:17	0:9	9:22	3:7	9:36	3:6
20 Th	3:46	0:9	4:00	0:7	10:03	3:9	10:20	3:8
21 Fr	4:24	0:7	4:38	0:6	10:40	4:1	10:58	4:0
22 Sa	4:58	0:6	5:12	0:6	11:13	4:1	11:32	4:1
23 Su	5:28	0:6	5:45	0:6	11:45	4:1		
24 Mo	5:56	0:6	6:16	0:6	12:04	4:1	12:17	4:0
25 Tu	6:24	0:7	6:48	0:7	12:35	4:1	12:49	3:9
26 We	6:53	0:8	7:21	0:8	1:06	4:0	1:21	3:7
27 Th	7:25	1:0	7:56	1:0	1:38	3:8	1:57	3:6
28 Fr	8:02	1:2	8:37	1:2	2:12	3:6	2:37	3:3
29 Sa	8:48	1:4	9:25	1:4	2:51	3:4	3:26	3:2
30 Su	9:56	1:6	10:29	1:6	3:40	3:2	4:28	3:0
31 Mo	11:29	1:7	11:53	1:6	4:52	3:0	5:43	2:9

Adjusted for Daylight Saving

→ **april 2008**

	Lows		Highs					
	am	pm	am	pm				
1 Tu		12:48	1:5	6:25	3:1	7:01	3:0	
2 We	1:15	1:5	1:46	1:3	7:40	3:3	8:09	3:3
3 Th	2:17	1:3	2:33	1:0	8:34	3:6	9:03	3:5
4 Fr	3:05	0:9	3:17	0:8	9:19	3:9	9:49	3:8
5 Sa	3:48	0:7	3:59	0:5	10:00	4:1	10:32	4:1
6 Su	3:28	0:4	3:41	0:4	9:41	4:3	10:13	4:3
7 Mo	4:08	0:3	4:24	0:3	10:22	4:4	10:54	4:4
8 Tu	4:48	0:2	5:07	0:3	11:05	4:4	11:35	4:3
9 We	5:30	0:3	5:52	0:5	11:50	4:2		
10 Th	6:15	0:6	6:39	0:7	12:17	4:2	12:38	4:0
11 Fr	7:06	0:8	7:29	0:9	1:02	4:0	1:30	3:7
12 Sa	8:09	1:1	8:28	1:2	1:52	3:7	2:29	3:5
13 Su	9:31	1:3	9:41	1:4	2:55	3:4	3:37	3:3
14 Mo	10:56	1:4	11:10	1:5	4:19	3:3	4:53	3:2
15 Tu		12:05	1:3	5:51	3:3	6:10	3:2	
16 We	12:30	1:4	1:01	1:1	6:59	3:5	7:15	3:4
17 Th	1:29	1:2	1:47	1:0	7:49	3:7	8:07	3:6
18 Fr	2:15	1:0	2:29	0:8	8:30	3:8	8:50	3:8
19 Sa	2:52	0:9	3:06	0:8	9:06	3:9	9:27	3:9
20 Su	3:25	0:8	3:41	0:7	9:40	3:9	10:02	4:0
21 Mo	3:55	0:7	4:15	0:7	10:13	3:9	10:35	4:0
22 Tu	4:25	0:7	4:48	0:7	10:45	3:9	11:07	4:0
23 We	4:54	0:8	5:21	0:8	11:19	3:8	11:40	4:0
24 Th	5:26	0:9	5:56	0:9	11:54	3:6		
25 Fr	6:01	1:0	6:34	1:0	12:13	3:8	12:32	3:5
26 Sa	6:40	1:2	7:15	1:2	12:49	3:7	1:15	3:3
27 Su	7:28	1:3	8:03	1:3	1:28	3:5	2:04	3:2
28 Mo	8:30	1:5	9:01	1:5	2:17	3:3	3:01	3:1
29 Tu	9:43	1:5	10:11	1:5	3:19	3:2	4:06	3:1
30 We	10:54	1:4	11:25	1:4	4:35	3:2	5:15	3:1

→ **may 2008**

	Lows		Highs					
	am	pm	am	pm				
1 Th	11:54	1:2		5:46	3:4	6:21	3:3	
2 Fr	12:30	1:2	12:47	1:0	6:44	3:6	7:21	3:6
3 Sa	1:24	0:9	1:37	0:8	7:35	3:8	8:13	3:8
4 Su	2:13	0:7	2:25	0:6	8:23	4:1	9:02	4:1
5 Mo	2:59	0:5	3:14	0:5	9:09	4:2	9:48	4:3
6 Tu	3:43	0:3	4:03	0:4	9:56	4:3	10:33	4:3
7 We	4:29	0:3	4:52	0:4	10:45	4:2	11:18	4:3
8 Th	5:15	0:4	5:41	0:6	11:35	4:1		
9 Fr	6:05	0:6	6:31	0:7	12:04	4:2	12:27	3:9
10 Sa	7:01	0:8	7:23	0:9	12:52	4:0	1:23	3:7
11 Su	8:04	1:1	8:21	1:2	1:45	3:8	2:21	3:5
12 Mo	9:16	1:2	9:26	1:3	2:46	3:5	3:23	3:3
13 Tu	10:26	1:3	10:40	1:4	3:57	3:4	4:28	3:3
14 We	11:27	1:2	11:51	1:4	5:11	3:4	5:34	3:3
15 Th		12:21	1:2	6:14	3:4	6:36	3:4	
16 Fr	12:50	1:3	1:08	1:1	7:05	3:5	7:30	3:5
17 Sa	1:38	1:2	1:52	1:0	7:49	3:6	8:16	3:6
18 Su	2:18	1:0	2:32	0:9	8:28	3:7	8:56	3:8
19 Mo	2:53	0:9	3:11	0:9	9:05	3:7	9:34	3:9
20 Tu	3:27	0:9	3:49	0:9	9:42	3:7	10:10	3:9
21 We	3:59	0:8	4:26	0:8	10:19	3:7	10:44	3:9
22 Th	4:33	0:9	5:03	0:9	10:57	3:6	11:19	3:9
23 Fr	5:07	0:9	5:40	0:9	11:36	3:6	11:54	3:9
24 Sa	5:45	1:0	6:18	1:0			12:17	3:5
25 Su	6:26	1:1	6:58	1:1	12:31	3:8	12:59	3:4
26 Mo	7:12	1:2	7:42	1:2	1:11	3:6	1:45	3:3
27 Tu	8:05	1:2	8:32	1:3	1:57	3:5	2:34	3:3
28 We	9:03	1:2	9:31	1:3	2:51	3:5	3:28	3:3
29 Th	10:03	1:2	10:38	1:3	3:52	3:4	4:28	3:3
30 Fr	11:02	1:1	11:46	1:2	4:57	3:5	5:33	3:4
31 Sa		12:01	1:0	5:58	3:6	6:39	3:5	

→ **june 2008**

	Lows		Highs					
	am	pm	am	pm				
1 Su	12:48	1:0	12:59	0:9	6:55	3:8	7:41	3:8
2 Mo	1:44	0:8	1:57	0:7	7:50	3:9	8:37	4:0
3 Tu	2:36	0:6	2:54	0:6	8:43	4:0	9:29	4:2
4 We	3:26	0:5	3:49	0:5	9:37	4:1	10:18	4:3
5 Th	4:15	0:4	4:42	0:5	10:31	4:1	11:06	4:3
6 Fr	5:05	0:5	5:33	0:6	11:25	4:0	11:53	4:2
7 Sa	5:57	0:6	6:22	0:7			12:18	3:9
8 Su	6:50	0:8	7:10	0:9	12:41	4:1	1:11	3:8
9 Mo	7:46	0:9	8:00	1:0	1:31	3:9	2:02	3:6
10 Tu	8:43	1:1	8:53	1:2	2:24	3:7	2:54	3:5
11 We	9:40	1:2	9:54	1:4	3:21	3:5	3:48	3:4
12 Th	10:36	1:2	11:00	1:4	4:21	3:4	4:45	3:3
13 Fr	11:29	1:3			5:20	3:4	5:46	3:3
14 Sa	12:04	1:4	12:21	1:2	6:14	3:4	6:46	3:3
15 Su	12:58	1:3	1:12	1:2	7:04	3:4	7:41	3:5
16 Mo	1:45	1:2	2:01	1:1	7:51	3:4	8:29	3:6
17 Tu	2:26	1:1	2:47	1:1	8:35	3:5	9:11	3:7
18 We	3:04	1:0	3:30	1:0	9:18	3:5	9:50	3:8
19 Th	3:41	0:9	4:10	0:9	10:00	3:6	10:26	3:9
20 Fr	4:17	0:9	4:48	0:9	10:42	3:6	11:02	3:9
21 Sa	4:53	0:9	5:25	0:8	11:23	3:6	11:38	3:9
22 Su	5:30	0:9	6:01	0:9			12:03	3:6
23 Mo	6:10	0:9	6:37	0:9	12:14	3:9	12:42	3:6
24 Tu	6:52	0:9	7:17	1:0	12:52	3:8	1:22	3:6
25 We	7:37	1:0	8:01	1:1	1:34	3:8	2:04	3:5
26 Th	8:28	1:0	8:53	1:1	2:21	3:7	2:50	3:5
27 Fr	9:19	1:0	9:56	1:2	3:16	3:6	3:44	3:4
28 Sa	10:17	1:1	11:08	1:2	4:16	3:6	4:49	3:4
29 Su	11:21	1:1			5:19	3:6	6:04	3:5
30 Mo	12:20	1:1	12:29	1:0	6:22	3:6	7:17	3:6

→ **july 2008**

	Lows		Highs					
	am	pm	am	pm				
1 Tu	1:24	0:9	1:39	0:9	7:25	3:7	8:21	3:9
2 We	2:22	0:7	2:44	0:8	8:27	3:8	9:17	4:1
3 Th	3:15	0:6	3:42	0:6	9:26	3:9	10:07	4:2
4 Fr	4:05	0:5	4:34	0:5	10:22	4:0	10:54	4:3
5 Sa	4:54	0:5	5:21	0:5	11:14	4:0	11:39	4:3
6 Su	5:42	0:5	6:04	0:6			12:03	4:0
7 Mo	6:29	0:6	6:45	0:7	12:23	4:2	12:49	3:9
8 Tu	7:15	0:8	7:26	0:9	1:07	4:0	1:32	3:8
9 We	8:01	0:9	8:09	1:1	1:51	3:8	2:15	3:6
10 Th	8:47	1:1	8:58	1:3	2:38	3:6	3:00	3:5
11 Fr	9:36	1:2	9:59	1:5	3:29	3:4	3:50	3:3
12 Sa	10:29	1:3	11:12	1:5	4:24	3:3	4:49	3:2
13 Su	11:29	1:4			5:22	3:2	5:58	3:2
14 Mo	12:21	1:5	12:33	1:4	6:21	3:2	7:08	3:3
15 Tu	1:17	1:4	1:35	1:3	7:18	3:2	8:05	3:4
16 We	2:05	1:2	2:29	1:2	8:12	3:3	8:51	3:6
17 Th	2:46	1:1	3:14	1:0	9:02	3:4	9:31	3:8
18 Fr	3:24	0:9	3:54	0:9	9:46	3:6	10:08	3:9
19 Sa	4:00	0:8	4:30	0:8	10:27	3:7	10:43	4:1
20 Su	4:36	0:7	5:04	0:7	11:06	3:8	11:17	4:1
21 Mo	5:12	0:7	5:38	0:7	11:43	3:8	11:5	

→ nelson tide timetables

→ september 2008

	Lows		Highs	
	am	pm	am	pm
1 Mo	4:16 0.4	4:34 0.4	10:35 4.2	10:52 4.3
2 Tu	4:53 0.4	5:07 0.5	11:12 4.2	11:27 4.2
3 We	5:28 0.5	5:37 0.6	11:46 4.1	
4 Th	6:01 0.6	6:08 0.7	12:01 4.1	12:20 4.0
5 Fr	6:35 0.8	6:40 1.0	12:36 3.9	12:53 3.8
6 Sa	7:12 1.0	7:17 1.2	1:13 3.6	1:29 3.6
7 Su	7:53 1.2	8:05 1.5	1:54 3.4	2:09 3.4
8 Mo	8:43 1.4	9:19 1.7	2:45 3.2	3:02 3.2
9 Tu	9:51 1.6	11:03 1.7	3:50 3.0	4:19 3.0
10 We	11:20 1.6		5:07 2.9	5:56 3.1
11 Th	12:20 1.6	12:42 1.5	6:25 3.0	7:09 3.3
12 Fr	1:13 1.3	1:39 1.3	7:30 3.2	7:58 3.6
13 Sa	1:56 1.1	2:23 1.0	8:20 3.5	8:37 3.8
14 Su	2:33 0.8	3:01 0.7	9:02 3.7	9:13 4.1
15 Mo	3:09 0.6	3:36 0.5	9:39 4.0	9:48 4.3
16 Tu	3:45 0.4	4:10 0.4	10:16 4.1	10:24 4.4
17 We	4:22 0.3	4:45 0.3	10:52 4.3	11:01 4.4
18 Th	5:00 0.3	5:22 0.3	11:29 4.3	11:40 4.3
19 Fr	5:40 0.4	6:01 0.5		12:07 4.2
20 Sa	6:22 0.6	6:45 0.7	12:23 4.1	12:47 4.0
21 Su	7:08 0.8	7:38 1.0	1:10 3.9	1:32 3.8
22 Mo	8:01 1.1	8:51 1.3	2:05 3.6	2:28 3.5
23 Tu	9:08 1.3	10:29 1.4	3:10 3.3	3:45 3.3
24 We	10:39 1.5	11:53 1.3	4:28 3.2	5:27 3.3
25 Th		12:13 1.4	5:51 3.3	6:52 3.5
26 Fr	12:57 1.1	1:24 1.1	7:05 3.4	7:50 3.8
27 Sa	1:48 0.8	2:15 0.9	8:05 3.7	8:34 4.0
28 Su	3:33 0.6	3:57 0.7	9:52 3.9	10:13 4.2
29 Mo	4:13 0.5	4:34 0.5	10:33 4.1	10:49 4.2
30 Tu	4:50 0.5	5:06 0.5	11:10 4.2	11:23 4.2

→ october 2008

	Lows		Highs	
	am	pm	am	pm
1 We	5:24 0.5	5:36 0.5	11:43 4.2	11:56 4.1
2 Th	5:57 0.5	6:06 0.6		12:16 4.2
3 Fr	6:30 0.6	6:35 0.7	12:29 4.0	12:48 4.1
4 Sa	7:04 0.8	7:08 0.9	1:03 3.8	1:21 3.9
5 Su	7:40 1.0	7:45 1.2	1:39 3.6	1:56 3.7
6 Mo	8:20 1.2	8:32 1.4	2:20 3.4	2:36 3.5
7 Tu	9:09 1.4	9:38 1.6	3:10 3.2	3:26 3.2
8 We	10:13 1.6	11:11 1.7	4:13 3.0	4:36 3.1
9 Th	11:36 1.6		5:28 2.9	6:05 3.1
10 Fr	12:32 1.5	12:57 1.5	6:46 3.0	7:21 3.3
11 Sa	1:29 1.3	1:58 1.3	7:52 3.2	8:14 3.5
12 Su	2:15 1.1	2:46 1.0	8:44 3.5	8:58 3.8
13 Mo	2:57 0.8	3:27 0.7	9:29 3.8	9:37 4.1
14 Tu	3:37 0.6	4:05 0.5	10:10 4.0	10:16 4.2
15 We	4:17 0.4	4:43 0.3	10:49 4.2	10:56 4.4
16 Th	4:58 0.3	5:22 0.3	11:29 4.3	11:38 4.4
17 Fr	5:40 0.3	6:03 0.3		12:09 4.4
18 Sa	6:24 0.4	6:47 0.5	12:21 4.2	12:50 4.3
19 Su	7:10 0.6	7:35 0.7	1:08 4.1	1:34 4.1
20 Mo	8:00 0.8	8:34 1.0	2:00 3.8	2:23 3.8
21 Tu	8:56 1.1	9:50 1.2	2:58 3.6	3:22 3.6
22 We	10:05 1.3	11:17 1.3	4:04 3.4	4:39 3.4
23 Th	11:30 1.4		5:18 3.3	6:09 3.3
24 Fr	12:32 1.2	12:54 1.3	6:35 3.3	7:25 3.5
25 Sa	1:32 1.1	2:00 1.2	7:45 3.4	8:20 3.7
26 Su	2:23 0.9	2:50 1.0	8:41 3.6	9:05 3.9
27 Mo	3:07 0.8	3:31 0.8	9:27 3.8	9:44 4.0
28 Tu	3:47 0.7	4:07 0.7	10:07 4.0	10:20 4.0
29 We	4:24 0.6	4:39 0.6	10:44 4.1	10:55 4.0
30 Th	4:59 0.6	5:10 0.6	11:18 4.1	11:29 3.9
31 Fr	5:33 0.6	5:41 0.7	11:52 4.1	

Adjusted for Daylight Saving

→ november 2008

	Lows		Highs	
	am	pm	am	pm
1 Sa	6:07 0.7	6:12 0.8	12:03 3.8	12:25 4.0
2 Su	6:42 0.8	6:47 0.9	12:39 3.7	12:58 3.9
3 Mo	7:19 0.9	7:25 1.1	1:17 3.6	1:34 3.8
4 Tu	7:59 1.1	8:11 1.3	1:59 3.4	2:13 3.6
5 We	8:45 1.3	9:08 1.4	2:46 3.2	3:00 3.4
6 Th	9:39 1.4	10:17 1.5	3:41 3.1	3:59 3.3
7 Fr	10:46 1.5	11:28 1.4	4:44 3.1	5:10 3.2
8 Sa		12:01 1.5	5:52 3.1	6:21 3.3
9 Su	12:31 1.3	1:08 1.3	7:00 3.2	7:22 3.5
10 Mo	1:25 1.1	2:04 1.1	8:00 3.4	8:13 3.7
11 Tu	2:15 0.9	2:52 0.8	8:53 3.7	9:00 4.0
12 We	3:04 0.7	3:38 0.6	9:41 4.0	9:46 4.1
13 Th	3:52 0.5	4:22 0.4	10:26 4.2	10:32 4.2
14 Fr	4:40 0.4	5:06 0.3	11:11 4.3	11:20 4.2
15 Sa	5:28 0.4	5:51 0.3	11:55 4.4	
16 Su	6:16 0.4	6:40 0.5	12:09 4.2	12:40 4.3
17 Mo	7:05 0.6	7:32 0.7	1:00 4.0	1:27 4.2
18 Tu	7:56 0.8	8:31 0.9	1:54 3.8	2:17 3.9
19 We	8:50 1.0	9:37 1.1	2:50 3.6	3:14 3.7
20 Th	9:50 1.2	10:48 1.2	3:50 3.5	4:20 3.5
21 Fr	11:01 1.3	11:54 1.2	4:54 3.4	5:33 3.4
22 Sa		12:17 1.4	6:01 3.3	6:42 3.4
23 Su	12:54 1.2	1:24 1.3	7:07 3.4	7:40 3.5
24 Mo	1:47 1.1	2:18 1.2	8:07 3.5	8:29 3.6
25 Tu	2:35 1.0	3:03 1.0	8:59 3.6	9:12 3.7
26 We	3:19 0.9	3:42 0.9	9:42 3.8	9:52 3.7
27 Th	4:01 0.9	4:17 0.8	10:22 3.9	10:30 3.8
28 Fr	4:40 0.8	4:51 0.8	10:58 4.0	11:08 3.7
29 Sa	5:17 0.8	5:24 0.8	11:33 4.0	11:46 3.7
30 Su	5:53 0.8	5:58 0.8		12:08 4.0

Adjusted for Daylight Saving

→ december 2008

	Lows		Highs	
	am	pm	am	pm
1 Mo	6:29 0.8	6:33 0.9	12:25 3.7	12:42 4.0
2 Tu	7:05 0.9	7:12 1.0	1:04 3.6	1:18 3.9
3 We	7:42 1.0	7:54 1.1	1:44 3.5	1:56 3.7
4 Th	8:22 1.1	8:40 1.2	2:25 3.4	2:37 3.6
5 Fr	9:06 1.2	9:33 1.2	3:10 3.3	3:25 3.5
6 Sa	9:59 1.3	10:29 1.2	3:59 3.3	4:22 3.4
7 Su	11:03 1.4	11:29 1.2	4:55 3.2	5:25 3.4
8 Mo		12:14 1.3	6:01 3.3	6:28 3.5
9 Tu	12:31 1.1	1:22 1.2	7:11 3.4	7:29 3.6
10 We	1:33 1.0	2:22 0.9	8:18 3.6	8:26 3.8
11 Th	2:34 0.9	3:16 0.7	9:16 3.8	9:21 3.9
12 Fr	3:33 0.7	4:06 0.5	10:09 4.1	10:15 4.1
13 Sa	4:29 0.5	4:55 0.4	10:58 4.3	11:09 4.1
14 Su	5:22 0.4	5:44 0.3	11:45 4.4	
15 Mo	6:11 0.4	6:34 0.4	12:02 4.1	12:32 4.4
16 Tu	6:59 0.5	7:24 0.5	12:54 4.1	1:18 4.3
17 We	7:45 0.6	8:17 0.7	1:45 4.0	2:06 4.1
18 Th	8:32 0.8	9:11 0.9	2:35 3.8	2:56 3.9
19 Fr	9:22 1.0	10:06 1.0	3:25 3.7	3:50 3.7
20 Sa	10:19 1.2	11:03 1.2	4:16 3.5	4:48 3.5
21 Su	11:26 1.4		5:13 3.3	5:50 3.4
22 Mo	12:01 1.3	12:38 1.4	6:16 3.3	6:50 3.3
23 Tu	1:00 1.3	1:42 1.4	7:24 3.3	7:47 3.3
24 We	1:59 1.3	2:35 1.3	8:27 3.4	8:39 3.4
25 Th	2:54 1.2	3:20 1.1	9:20 3.5	9:28 3.5
26 Fr	3:43 1.1	4:00 1.0	10:04 3.7	10:13 3.5
27 Sa	4:27 1.0	4:36 0.9	10:43 3.9	10:55 3.6
28 Su	5:06 0.9	5:11 0.8	11:19 4.0	11:36 3.7
29 Mo	5:42 0.8	5:46 0.8	11:53 4.0	
30 Tu	6:16 0.7	6:20 0.8	12:14 3.7	12:27 4.0
31 We	6:48 0.7	6:56 0.8	12:51 3.7	1:01 4.0

Adjusted for Daylight Saving

→ january 2009

	Lows		Highs	
	am	pm	am	pm
1 Th	7:21 0.8	7:33 0.8	1:27 3.7	1:36 3.9
2 Fr	7:56 0.9	8:12 0.9	2:02 3.6	2:13 3.8
3 Sa	8:34 1.0	8:55 1.0	2:39 3.6	2:54 3.7
4 Su	9:18 1.1	9:43 1.1	3:18 3.5	3:42 3.6
5 Mo	10:14 1.2	10:38 1.1	4:06 3.4	4:38 3.5
6 Tu	11:26 1.3	11:42 1.2	5:06 3.3	5:42 3.5
7 We		12:47 1.3	6:24 3.3	6:50 3.5
8 Th	12:56 1.2	1:59 1.1	7:48 3.4	7:59 3.6
9 Fr	2:13 1.1	3:01 0.8	9:00 3.7	9:05 3.7
10 Sa	3:24 0.9	3:56 0.6	9:58 4.0	10:06 3.9
11 Su	4:23 0.6	4:47 0.4	10:49 4.2	11:03 4.1
12 Mo	5:15 0.5	5:35 0.3	11:35 4.4	11:54 4.2
13 Tu	6:02 0.4	6:22 0.3		12:20 4.5
14 We	6:45 0.4	7:08 0.4	12:42 4.2	1:03 4.4
15 Th	7:25 0.5	7:53 0.5	1:27 4.1	1:46 4.3
16 Fr	8:05 0.7	8:36 0.7	2:09 4.0	2:29 4.0
17 Sa	8:46 0.9	9:21 1.0	2:51 3.8	3:14 3.8
18 Su	9:30 1.2	10:07 1.2	3:34 3.6	4:02 3.5
19 Mo	10:26 1.4	11:00 1.3	4:21 3.4	4:56 3.3
20 Tu	11:41 1.6		5:18 3.2	5:56 3.2
21 We	12:04 1.5	1:03 1.6	6:32 3.1	7:02 3.1
22 Th	1:18 1.5	2:08 1.5	7:53 3.2	8:08 3.1
23 Fr	2:29 1.4	3:00 1.3	8:58 3.3	9:08 3.3
24 Sa	3:26 1.2	3:43 1.1	9:47 3.6	9:59 3.4
25 Su	4:12 1.1	4:20 1.0	10:26 3.8	10:43 3.6
26 Mo	4:50 0.9	4:55 0.8	11:01 3.9	11:22 3.7
27 Tu	5:24 0.7	5:28 0.7	11:35 4.1	11:58 3.8
28 We	5:55 0.6	6:01 0.6		12:07 4.1
29 Th	6:26 0.6	6:34 0.6	12:32 3.9	12:39 4.2
30 Fr	6:57 0.6	7:09 0.6	1:04 3.9	1:13 4.1
31 Sa	7:29 0.7	7:45 0.7	1:36 3.9	1:48 4.0

Adjusted for Daylight Saving

→ february 2009

	Lows		Highs	
	am	pm	am	pm
1 Su	8:04 0.8	8:24 0.8	2:10 3.8	2:26 3.9
2 Mo	8:46 1.0	9:09 0.9	2:46 3.7	3:11 3.7
3 Tu	9:38 1.2	10:01 1.1	3:29 3.5	4:05 3.5
4 We	10:52 1.3	11:07 1.3	4:26 3.3	5:09 3.4
5 Th		12:24 1.4	5:49 3.2	6:24 3.3
6 Fr	12:32 1.3	1:46 1.2	7:29 3.3	7:43 3.4
7 Sa	2:04 1.2	2:50 0.9	8:49 3.6	8:56 3.6
8 Su	3:18 1.0	3:45 0.7	9:48 3.9	9:59 3.8
9 Mo	4:14 0.7	4:34 0.4	10:36 4.2	10:53 4.1
10 Tu	5:02 0.5	5:20 0.3	11:20 4.4	11:40 4.2
11 We	5:44 0.3	6:03 0.3		12:01 4.5
12 Th	6:22 0.3	6:44 0.3	12:22 4.3	12:41 4.4
13 Fr	6:58 0.4	7:22 0.5	1:02 4.2	1:19 4.3
14 Sa	7:32 0.6	8:00 0.7	1:39 4.1	1:58 4.0
15 Su	8:07 0.9	8:38 0.9	2:15 3.9	2:37 3.8
16 Mo	8:44 1.1	9:18 1.1	2:52 3.7	3:19 3.5
17 Tu	9:31 1.4	10:06 1.4	3:33 3.4	4:08 3.3
18 We	10:40 1.6	11:08 1.6	4:23 3.2	5:07 3.1
19 Th		12:18 1.7	5:36 3.0	6:19 3.0
20 Fr	12:34 1.6	1:38 1.6	7:12 3.0	7:

→ **march 2009**

	Lows		Highs	
	am	pm	am	pm
1 Su	7:03 0.5	7:20 0.6	1:11 4.1	1:23 4.1
2 Mo	7:40 0.7	8:00 0.7	1:45 4.0	2:03 3.9
3 Tu	8:23 0.9	8:45 0.9	2:23 3.8	2:49 3.7
4 We	9:18 1.2	9:39 1.2	3:07 3.6	3:44 3.5
5 Th	10:37 1.4	10:49 1.4	4:06 3.4	4:52 3.3
6 Fr		12:14 1.4	5:34 3.2	6:11 3.2
7 Sa	12:24 1.4	1:35 1.2	7:19 3.3	7:34 3.3
8 Su	1:58 1.3	2:37 0.9	8:36 3.6	8:48 3.6
9 Mo	3:06 1.0	3:29 0.7	9:31 3.9	9:47 3.8
10 Tu	3:57 0.7	4:15 0.5	10:17 4.2	10:36 4.1
11 We	4:41 0.5	4:58 0.4	10:58 4.3	11:18 4.2
12 Th	5:19 0.4	5:38 0.3	11:36 4.4	11:57 4.3
13 Fr	5:54 0.4	6:15 0.4		12:13 4.3
14 Sa	6:27 0.5	6:51 0.5	12:33 4.2	12:49 4.2
15 Su	6:58 0.6	7:26 0.7	1:07 4.1	1:25 4.0
16 Mo	7:31 0.9	8:01 0.9	1:41 4.0	2:02 3.7
17 Tu	8:06 1.1	8:40 1.1	2:16 3.7	2:42 3.5
18 We	8:50 1.4	9:26 1.4	2:55 3.5	3:29 3.2
19 Th	9:53 1.6	10:26 1.6	3:42 3.2	4:27 3.0
20 Fr	11:29 1.7	11:50 1.7	4:48 3.0	5:40 2.9
21 Sa		12:55 1.6	6:22 3.0	7:01 3.0
22 Su	1:18 1.6	1:55 1.4	7:46 3.2	8:13 3.1
23 Mo	2:23 1.4	2:40 1.2	8:41 3.4	9:07 3.4
24 Tu	3:10 1.1	3:19 1.0	9:23 3.7	9:50 3.6
25 We	3:48 0.9	3:55 0.8	9:59 3.9	10:28 3.8
26 Th	4:23 0.7	4:30 0.6	10:34 4.1	11:03 4.0
27 Fr	4:56 0.5	5:06 0.5	11:08 4.2	11:38 4.1
28 Sa	5:29 0.4	5:42 0.4	11:44 4.2	
29 Su	6:04 0.4	6:21 0.5	12:12 4.2	12:22 4.2
30 Mo	6:41 0.5	7:01 0.6	12:48 4.2	1:02 4.1
31 Tu	7:22 0.7	7:45 0.7	1:26 4.0	1:46 3.9

Adjusted for Daylight Saving

→ **april 2009**

	Lows		Highs	
	am	pm	am	pm
1 We	8:11 0.9	8:34 1.0	2:08 3.9	2:37 3.7
2 Th	9:13 1.2	9:32 1.2	2:57 3.6	3:36 3.5
3 Fr	10:36 1.3	10:47 1.4	4:01 3.4	4:46 3.3
4 Sa		12:05 1.3	5:29 3.3	6:04 3.3
5 Su	12:20 1.4	12:17 1.1	6:03 3.4	6:23 3.4
6 Mo	12:42 1.2	1:15 0.9	7:13 3.6	7:30 3.6
7 Tu	1:44 1.0	2:05 0.7	8:05 3.9	8:25 3.8
8 We	2:32 0.8	2:50 0.6	8:50 4.0	9:11 4.0
9 Th	3:14 0.6	3:31 0.5	9:30 4.2	9:52 4.1
10 Fr	3:51 0.5	4:10 0.5	10:07 4.2	10:29 4.2
11 Sa	4:24 0.5	4:46 0.6	10:43 4.1	11:04 4.2
12 Su	4:56 0.6	5:22 0.7	11:19 4.0	11:38 4.1
13 Mo	5:28 0.7	5:56 0.8	11:55 3.8	
14 Tu	6:01 0.9	6:33 0.9	12:12 3.9	12:33 3.6
15 We	6:38 1.1	7:13 1.1	12:48 3.8	1:14 3.4
16 Th	7:23 1.3	7:58 1.3	1:26 3.6	2:01 3.2
17 Fr	8:22 1.5	8:55 1.5	2:13 3.3	2:57 3.1
18 Sa	9:40 1.6	10:06 1.6	3:13 3.2	4:03 3.0
19 Su	10:58 1.5	11:25 1.6	4:30 3.1	5:15 3.0
20 Mo	11:59 1.4		5:47 3.2	6:23 3.1
21 Tu	12:31 1.4	12:49 1.2	6:47 3.4	7:21 3.3
22 We	1:23 1.2	1:33 1.0	7:34 3.6	8:08 3.6
23 Th	2:06 1.0	2:14 0.8	8:15 3.8	8:51 3.8
24 Fr	2:46 0.7	2:55 0.7	8:55 4.0	9:31 4.0
25 Sa	3:24 0.6	3:37 0.5	9:35 4.1	10:10 4.2
26 Su	4:03 0.4	4:19 0.5	10:17 4.2	10:50 4.2
27 Mo	4:43 0.4	5:04 0.5	11:01 4.1	11:31 4.2
28 Tu	5:26 0.5	5:50 0.6	11:47 4.0	
29 We	6:14 0.7	6:38 0.8	12:14 4.1	12:38 3.8
30 Th	7:08 0.9	7:31 1.0	1:01 3.9	1:33 3.7

→ **may 2009**

	Lows		Highs	
	am	pm	am	pm
1 Fr	8:14 1.1	8:31 1.1	1:55 3.7	2:33 3.5
2 Sa	9:30 1.2	9:42 1.3	3:00 3.5	3:39 3.4
3 Su	10:44 1.2	11:02 1.3	4:17 3.4	4:49 3.4
4 Mo	11:49 1.1		5:35 3.5	5:59 3.4
5 Tu	12:15 1.2	12:45 1.0	6:39 3.6	7:03 3.6
6 We	1:15 1.1	1:35 0.9	7:32 3.7	7:57 3.7
7 Th	2:04 0.9	2:21 0.8	8:17 3.8	8:44 3.9
8 Fr	2:45 0.8	3:03 0.7	8:58 3.9	9:25 4.0
9 Sa	3:22 0.7	3:43 0.7	9:37 3.9	10:03 4.0
10 Su	3:57 0.7	4:21 0.7	10:15 3.8	10:39 4.0
11 Mo	4:30 0.8	4:58 0.8	10:53 3.8	11:14 4.0
12 Tu	5:04 0.8	5:35 0.9	11:31 3.7	11:49 3.9
13 We	5:39 0.9	6:12 1.0		12:11 3.5
14 Th	6:18 1.1	6:52 1.1	12:26 3.8	12:53 3.4
15 Fr	7:03 1.2	7:35 1.2	1:05 3.6	1:39 3.3
16 Sa	7:55 1.3	8:24 1.3	1:49 3.5	2:28 3.2
17 Su	8:54 1.4	9:21 1.4	2:41 3.3	3:23 3.1
18 Mo	9:56 1.4	10:27 1.5	3:42 3.3	4:22 3.1
19 Tu	10:55 1.3	11:34 1.4	4:47 3.3	5:24 3.2
20 We	11:50 1.2		5:47 3.4	6:26 3.3
21 Th	12:33 1.2	12:41 1.1	6:41 3.5	7:23 3.5
22 Fr	1:25 1.0	1:32 0.9	7:30 3.7	8:14 3.7
23 Sa	2:12 0.8	2:22 0.8	8:18 3.9	9:02 4.0
24 Su	2:57 0.6	3:13 0.6	9:06 4.0	9:48 4.1
25 Mo	3:43 0.5	4:03 0.6	9:55 4.1	10:33 4.2
26 Tu	4:29 0.4	4:53 0.5	10:46 4.1	11:19 4.3
27 We	5:17 0.5	5:43 0.6	11:38 4.0	
28 Th	6:09 0.6	6:33 0.7	12:06 4.2	12:32 3.9
29 Fr	7:05 0.7	7:25 0.8	12:55 4.1	1:26 3.8
30 Sa	8:05 0.9	8:20 1.0	1:48 3.9	2:22 3.6
31 Su	9:09 1.0	9:22 1.2	2:47 3.7	3:20 3.5

→ **June 2009**

	Lows		Highs	
	am	pm	am	pm
1 Mo	10:12 1.1	10:31 1.3	3:52 3.6	4:20 3.4
2 Tu	11:11 1.1	11:41 1.3	4:57 3.5	5:24 3.4
3 We		12:08 1.1	5:59 3.5	6:27 3.5
4 Th	12:42 1.2	1:01 1.1	6:53 3.5	7:26 3.6
5 Fr	1:34 1.1	1:51 1.0	7:42 3.6	8:16 3.7
6 Sa	2:19 1.0	2:38 1.0	8:28 3.6	9:01 3.8
7 Su	2:58 0.9	3:21 0.9	9:11 3.6	9:41 3.9
8 Mo	3:35 0.9	4:02 0.9	9:52 3.6	10:19 3.9
9 Tu	4:11 0.9	4:41 0.9	10:33 3.6	10:55 4.0
10 We	4:46 0.9	5:18 0.9	11:14 3.6	11:31 3.9
11 Th	5:22 0.9	5:54 0.9	11:54 3.6	
12 Fr	6:01 1.0	6:31 1.0	12:07 3.9	12:35 3.5
13 Sa	6:41 1.0	7:09 1.1	12:44 3.8	1:15 3.5
14 Su	7:25 1.1	7:50 1.2	1:24 3.7	1:56 3.4
15 Mo	8:12 1.2	8:37 1.3	2:08 3.6	2:40 3.3
16 Tu	9:02 1.2	9:32 1.4	2:58 3.5	3:28 3.3
17 We	9:56 1.2	10:38 1.4	3:54 3.4	4:24 3.3
18 Th	10:53 1.2	11:46 1.3	4:53 3.4	5:30 3.3
19 Fr	11:53 1.1		5:52 3.5	6:39 3.4
20 Sa	12:49 1.1	12:55 1.0	6:50 3.6	7:43 3.6
21 Su	1:45 0.9	1:58 0.9	7:48 3.7	8:40 3.8
22 Mo	2:38 0.7	2:58 0.7	8:45 3.9	9:32 4.1
23 Tu	3:28 0.5	3:53 0.6	9:41 4.0	10:20 4.3
24 We	4:18 0.4	4:45 0.5	10:36 4.1	11:07 4.4
25 Th	5:08 0.4	5:34 0.5	11:29 4.1	11:54 4.3
26 Fr	5:59 0.5	6:21 0.5		12:21 4.0
27 Sa	6:50 0.6	7:08 0.7	12:42 4.2	1:10 4.0
28 Su	7:43 0.7	7:56 0.9	1:31 4.1	1:59 3.8
29 Mo	8:36 0.9	8:49 1.1	2:23 3.8	2:49 3.7
30 Tu	9:30 1.0	9:51 1.3	3:18 3.6	3:42 3.5

→ **July 2009**

	Lows		Highs	
	am	pm	am	pm
1 We	10:26 1.2	11:00 1.4	4:16 3.5	4:40 3.4
2 Th	11:25 1.3		5:15 3.4	5:46 3.3
3 Fr	12:09 1.4	12:25 1.3	6:14 3.3	6:54 3.4
4 Sa	1:08 1.3	1:24 1.2	7:10 3.3	7:53 3.5
5 Su	1:57 1.2	2:18 1.2	8:03 3.4	8:42 3.6
6 Mo	2:40 1.1	3:06 1.0	8:52 3.5	9:24 3.8
7 Tu	3:18 1.0	3:47 0.9	9:37 3.5	10:01 3.9
8 We	3:55 0.9	4:25 0.8	10:19 3.6	10:37 4.0
9 Th	4:30 0.8	4:59 0.8	10:59 3.7	11:11 4.0
10 Fr	5:04 0.8	5:32 0.8	11:36 3.7	11:45 4.0
11 Sa	5:39 0.8	6:05 0.8		12:12 3.7
12 Su	6:16 0.8	6:38 0.9	12:20 3.9	12:47 3.7
13 Mo	6:53 0.9	7:14 1.0	12:56 3.9	1:22 3.6
14 Tu	7:33 0.9	7:55 1.1	1:35 3.7	1:58 3.5
15 We	8:18 1.0	8:45 1.2	2:18 3.6	2:40 3.4
16 Th	9:08 1.1	9:50 1.3	3:09 3.5	3:32 3.3
17 Fr	10:06 1.2	11:08 1.3	4:08 3.4	4:41 3.3
18 Sa	11:14 1.2		5:14 3.4	6:05 3.3
19 Su	12:24 1.2	12:31 1.1	6:21 3.5	7:22 3.6
20 Mo	1:28 1.0	1:45 1.0	7:29 3.6	8:25 3.9
21 Tu	2:25 0.7	2:49 0.7	8:32 3.8	9:19 4.1
22 We	3:17 0.5	3:43 0.5	9:31 4.0	10:07 4.4
23 Th	4:06 0.3	4:32 0.4	10:25 4.1	10:53 4.5
24 Fr	4:54 0.3	5:17 0.3	11:15 4.2	11:37 4.5
25 Sa	5:41 0.3	6:00 0.4		12:01 4.2
26 Su	6:27 0.4	6:41 0.6	12:21 4.4	12:45 4.1
27 Mo	7:12 0.6	7:23 0.8	1:05 4.2	1:28 4.0
28 Tu	7:57 0.8	8:08 1.1	1:51 3.9	2:12 3.7
29 We	8:44 1.0	9:02 1.3	2:39 3.6	2:58 3.5
30 Th	9:37 1.3	10:14 1.5	3:32 3.4	3:53 3.3
31 Fr	10:38 1.4	11:36 1.6	4:31 3.2	5:02 3.2

→ **August 2009**

	Lows		Highs	
	am	pm	am	pm
1 Sa	11:50 1.5		5:36 3.1	6:22 3.2
2 Su	12:45 1.5	1:02 1.4	6:43 3.1	7:32 3.3
3 Mo	1:38 1.3	2:01 1.3	7:45 3.2	8:24 3.5
4 Tu	2:22 1.2	2:49 1.1	8:38 3.4	9:05 3.7
5 We	3:01 1.0	3:29 0.9	9:23 3.5	9:41 3.9
6 Th	3:36 0.8	4:03 0.8	10:03 3.7	10:15 4.0
7 Fr	4:09 0.7	4:35 0.7	10:39 3.8	10:47 4.1
8 Sa	4:41 0.7	5:06 0.6	11:12 3.9	11:20 4.1
9 Su	5:14 0.6	5:36 0.6	11:45 3.9	11:52 4.1
10 Mo	5:47 0.6	6:07 0.7		12:17 3.9
11 Tu	6:22 0.7	6:41 0.8	12:26 4.0	12:49 3.8
12 We	7:00 0.8	7:20 1.0	1:03 3.9	1:23 3.7
13 Th	7:42 0.9	8:08 1.2	1:45 3.7	2:03 3.5
14 Fr	8:31 1.1	9:15 1.3	2:35 3.5	2:54 3.4
15 Sa	9:33 1.2	10:44 1.4	3:37 3.4	4:07 3.3
16 Su	10:51 1.3		4:48 3.3	5:44 3.3
17 Mo	12:09 1.2	12:21 1.2	6:05 3.4	7:10 3.5
18 Tu	1:17 1.0	1:38 1.0	7:19 3.6	8:13 3.9
19 We	2:13 0.7	2:39 0.7	8:24 3.8	9:04 4.2
20 Th	3:03 0.4	3:29 0.5	9:20 4.1	9:50 4.4
21 Fr	3:50 0.3	4:13 0.3	10:10 4.3	10:33 4.5
22 Sa	4:34 0.2	4:54 0.2	10:54 4.4	11:14 4.5
23				

→ french pass tidal streams

→ september 2007

TIME ZONE: -1200 TIDAL STREAM BEGINS AT THE TIME SHOWN IN THE DIRECTION INDICATED

Day	Time	Dir	Day	Time	Dir	Day	Time	Dir	Day	Time	Dir
1 Sa	0313 1014 1536 2232	SW NE SW NE	9 Su	0600 1139 1830 2355	NE SW NE SW	17 Mo	0355 1052 1559 2313	SW NE SW NE	25 Tu	0615 1145 1829 2357	NE SW NE SW
2 Su	0357 1104 1620 2329	SW NE SW NE	10 Mo	0640 1222 1903	NE SW NE	18 Tu	0432 1136 1638	SW NE SW	26 We	0653 1227 1904	NE SW NE
3 Mo	0443 1159 1710	SW NE SW	11 Tu	0034 0716 1258 1934	SW NE SW NE	19 We	0006 0515 1226 1729	NE SW NE SW	27 Th	0040 0732 1308 1943	SW NE SW NE
4 Tu	0033 0533 1302 1817	NE SW NE SW	12 We	0110 0751 1328 2006	SW NE SW NE	20 Th	0111 0608 1332 1848	NE SW NE SW	28 Fr	0123 0815 1349 2025	SW NE SW NE
5 We	0143 0634 1419 1948	NE SW NE SW	13 Th	0143 0825 1357 2038	SW NE SW NE	21 Fr	0227 0720 1502 2027	NE SW NE SW	29 Sa	0207 0859 1430 2113	SW NE SW NE
6 Th	0258 0754 1552 2114	NE SW NE SW	14 Fr	0215 0859 1425 2113	SW NE SW NE	22 Sa	0345 0848 1625 2138	NE SW NE SW	30 Su	0251 0947 1514 2207	SW NE SW NE
7 Fr	0410 0930 1707 2219	NE SW NE SW	15 Sa	0247 0935 1454 2150	SW NE SW NE	23 Su	0448 1003 1717 2231	NE SW NE SW			
8 Sa	0512 1045 1755 2311	NE SW NE SW	16 Su	0320 1013 1525 2229	SW NE SW NE	24 Mo	0536 1058 1755 2315	NE SW NE SW			

→ october 2007

TIME ZONE: -1200 TIDAL STREAM BEGINS AT THE TIME SHOWN IN THE DIRECTION INDICATED

Day	Time	Dir	Day	Time	Dir	Day	Time	Dir	Day	Time	Dir
1 Mo	0337 1038 1600 2306	SW NE SW NE	9 Tu	0620 1154 1837	NE SW NE	17 We	0406 1103 1613 2333	SW NE SW NE	25 Th	0630 1158 1839	NE SW NE
2 Tu	0425 1136 1655	SW NE SW	10 We	0007 0653 1228 1906	SW NE SW NE	18 Th	0450 1154 1706	SW NE SW	26 Fr	0014 0710 1243 1918	SW NE SW NE
3 We	0013 0517 1242 1806	NE SW NE SW	11 Th	0041 0724 1258 1935	SW NE SW NE	19 Fr	0039 0542 1301 1818	NE SW NE SW	27 Sa	0101 0752 1327 2002	SW NE SW NE
4 Th	0127 0622 1404 1939	NE SW NE SW	12 Fr	0114 0755 1326 2005	SW NE SW NE	20 Sa	0156 0650 1425 1944	NE SW NE SW	28 Su	0148 0837 1412 2052	SW NE SW NE
5 Fr	0247 0747 1542 2059	NE SW NE SW	13 Sa	0146 0828 1355 2038	SW NE SW NE	21 Su	0314 0811 1547 2055	NE SW NE SW	29 Mo	0236 0927 1458 2147	SW NE SW NE
6 Sa	0402 0917 1653 2200	NE SW NE SW	14 Su	0218 0903 1425 2114	SW NE SW NE	22 Mo	0419 0924 1644 2151	NE SW NE SW	30 Tu	0324 1020 1549 2250	SW NE SW NE
7 Su	0501 1026 1736 2248	NE SW NE SW	15 Mo	0252 0940 1457 2155	SW NE SW NE	23 Tu	0509 1024 1725 2240	NE SW NE SW	31 We	0413 1119 1646 2358	SW NE SW NE
8 Mo	0546 1115 1808 2329	NE SW NE SW	16 Tu	0328 1019 1532 2240	SW NE SW NE	24 We	0551 1113 1802 2327	NE SW NE SW			

Caution: Tidal Streams may be subject to irregularities and these times should be regarded as approximate only.

TIMES LISTED ARE NZ STANDARD TIME • REMEMBER TO ADD 1 HOUR FOR NZ DAYLIGHT SAVING TIME (FROM SUNDAY 30 SEPTEMBER 2007 TO SUNDAY 6 APRIL 2008) • CROWN COPYRIGHT RESERVED

→ november 2007

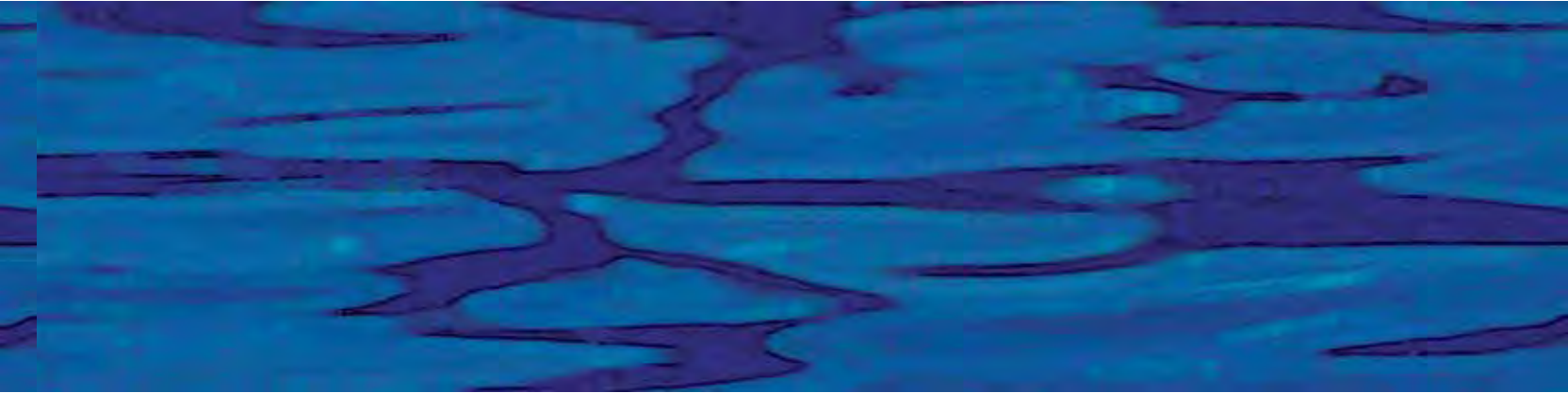
TIME ZONE: -1200 TIDAL STREAM BEGINS AT THE TIME SHOWN IN THE DIRECTION INDICATED

Day	Time	Dir	Day	Time	Dir	Day	Time	Dir	Day	Time	Dir
1 Th	0507 1226 1756	SW NE SW	9 Fr	0011 0659 1229 1906	SW NE SW NE	17 Sa	0019 0524 1238 1753	NE SW NE SW	25 Su	0044 0736 1311 1945	SW NE SW NE
2 Fr	0112 0608 1345 1915	NE SW NE SW	10 Sa	0047 0730 1301 1938	SW NE SW NE	18 Su	0126 0622 1352 1900	NE SW NE SW	26 Mo	0136 0823 1359 2037	SW NE SW NE
3 Sa	0227 0722 1512 2026	NE SW NE SW	11 Su	0122 0804 1331 2013	SW NE SW NE	19 Mo	0236 0730 1506 2006	NE SW NE SW	27 Tu	0226 0913 1449 2135	SW NE SW NE
4 Su	0337 0843 1619 2124	NE SW NE SW	12 Mo	0158 0839 1405 2052	SW NE SW NE	20 Tu	0342 0842 1606 2107	NE SW NE SW	28 We	0316 1007 1540 2237	SW NE SW NE
5 Mo	0434 0949 1704 2213	NE SW NE SW	13 Tu	0235 0917 1440 2134	SW NE SW NE	21 We	0438 0947 1655 2203	NE SW NE SW	29 Th	0404 1104 1635 2342	SW NE SW NE
6 Tu	0519 1040 1738 2255	NE SW NE SW	14 We	0312 0958 1518 2222	SW NE SW NE	22 Th	0526 1043 1736 2257	NE SW NE SW	30 Fr	0452 1206 1733	SW NE SW
7 We	0555 1121 1807 2334	NE SW NE SW	15 Th	0352 1043 1601 2317	SW NE SW NE	23 Fr	0609 1134 1815 2351	NE SW NE SW			
8 Th	0627 1156 1836	NE SW NE	16 Fr	0435 1136 1652	SW NE SW	24 Sa	0652 1224 1858	NE SW NE			

→ december 2007

TIME ZONE: -1200 TIDAL STREAM BEGINS AT THE TIME SHOWN IN THE DIRECTION INDICATED

Day	Time	Dir	Day	Time	Dir	Day	Time	Dir	Day	Time	Dir
1 Sa	0046 0543 1315 1834	NE SW NE SW	9 Su	0026 0711 1240 1918	SW NE SW NE	17 Mo	0054 0553 1319 1822	NE SW NE SW	25 Tu	0130 0814 1351 2030	SW NE SW NE
2 Su	0150 0642 1424 1934	NE SW NE SW	10 Mo	0107 0746 1315 1956	SW NE SW NE	18 Tu	0155 0652 1426 1920	NE SW NE SW	26 We	0220 0902 1440 2125	SW NE SW NE
3 Mo	0251 0748 1528 2030	NE SW NE SW	11 Tu	0146 0822 1351 2038	SW NE SW NE	19 We	0300 0801 1530 2022	NE SW NE SW	27 Th	0306 0952 1527 2221	SW NE SW NE
4 Tu	0349 0856 1619 2122	NE SW NE SW	12 We	0223 0901 1428 2124	SW NE SW NE	20 Th	0405 0913 1624 2127	NE SW NE SW	28 Fr	0348 1043 1613 2316	SW NE SW NE
5 We	0441 0955 1701 2212	NE SW NE SW	13 Th	0301 0943 1509 2211	SW NE SW NE	21 Fr	0504 1019 1713 2233	NE SW NE SW	29 Sa	0428 1137 1700	SW NE SW
6 Th	0524 1043 1736 2258	NE SW NE SW	14 Fr	0340 1027 1551 2302	SW NE SW NE	22 Sa	0554 1117 1758 2337	NE SW NE SW	30 Su	0008 0508 1232 1746	NE SW NE SW
7 Fr	0602 1126 1808 2343	NE SW NE SW	15 Sa	0420 1118 1637 2357	SW NE SW NE	23 Su	0640 1211 1846	NE SW NE	31 Mo	0101 0552 1330 1833	NE SW NE SW
8 Sa	0637 1203 1842	NE SW NE	16 Su	0503 1215 1727	SW NE SW	24 Mo	0036 1302 1936	SW NE SW			



→ january 2008

TIME ZONE: -1200 TIDAL STREAM BEGINS AT THE TIME SHOWN IN THE DIRECTION INDICATED

	Time	Dir		Time	Dir		Time	Dir		Time	Dir
1	0154	NE	9	0133	SW	17	0221	NE	25	0247	SW
Tu	0643	SW	We	0806	NE	Th	0726	SW	Fr	0931	NE
	1427	NE		1339	SW		1456	NE		1506	SW
	1923	SW		2027	NE		1945	SW		2155	NE
2	0249	NE	10	0210	SW	18	0334	NE	26	0322	SW
We	0748	SW	Th	0844	NE	Fr	0847	SW	Sa	1015	NE
	1525	NE		1416	SW		1559	NE		1545	SW
	2019	SW		2111	NE		2058	SW		2240	NE
3	0349	NE	11	0246	SW	19	0447	NE	27	0356	SW
Th	0901	SW	Fr	0925	NE	Sa	1003	SW	Su	1059	NE
	1615	NE		1455	SW		1656	NE		1623	SW
	2118	SW		2156	NE		2220	SW		2324	NE
4	0448	NE	12	0322	SW	20	0546	NE	28	0429	SW
Fr	1005	SW	Sa	1009	NE	Su	1107	SW	Mo	1145	NE
	1701	NE		1536	SW		1749	NE		1659	SW
	2220	SW		2241	NE		2333	SW			
5	0537	NE	13	0359	SW	21	0635	NE	29	0008	NE
Sa	1057	SW	Su	1056	NE	Mo	1203	SW	Tu	0504	SW
	1743	NE		1617	SW		1840	NE		1234	NE
	2318	SW		2329	NE					1738	SW
6	0618	NE	14	0440	SW	22	0034	SW	30	0055	NE
Su	1142	SW	Mo	1149	NE	Tu	0720	NE	We	0504	SW
	1824	NE		1701	SW		1253	SW		1327	NE
							1931	NE		1822	SW
7	0009	SW	15	0021	NE	23	0124	SW	31	0146	NE
Mo	0655	NE	Tu	0524	SW	We	0803	NE	Th	0640	SW
	1223	SW		1248	NE		1341	SW		1425	NE
	1904	NE		1749	SW		2020	NE		1913	SW
8	0053	SW	16	0117	NE	24	0208	SW			
Tu	0730	NE	We	0819	SW	Th	0846	NE			
	1301	SW		1351	NE		1424	SW			
	1945	NE		1842	SW		2109	NE			

→ february 2008

TIME ZONE: -1200 TIDAL STREAM BEGINS AT THE TIME SHOWN IN THE DIRECTION INDICATED

	Time	Dir		Time	Dir		Time	Dir		Time	Dir
1	0248	NE	9	0223	SW	17	0439	NE	25	0320	SW
Fr	0757	SW	Sa	0901	NE	Su	0956	SW	Mo	1019	NE
	1526	NE		1435	SW		1648	NE		1545	SW
	2019	SW		2131	NE		2218	SW		2240	NE
2	0402	NE	10	0259	SW	18	0542	NE	26	0350	SW
Sa	0923	SW	Su	0944	NE	Mo	1100	SW	Tu	1059	NE
	1626	NE		1514	SW		1746	NE		1619	SW
	2140	SW		2215	NE		2330	SW		2319	NE
3	0510	NE	11	0337	SW	19	0629	NE	27	0423	SW
Su	1030	SW	Mo	1030	NE	Tu	1153	SW	We	1144	NE
	1720	NE		1554	SW		1837	NE		1654	SW
	2252	SW		2301	NE						
4	0600	NE	12	0415	SW	20	0025	SW	28	0001	NE
Mo	1119	SW	Tu	1122	NE	We	0708	NE	Th	0500	SW
	1807	NE		1637	SW		1240	SW		1233	NE
	2348	SW		2350	NE		1922	NE		1734	SW
5	0637	NE	13	0459	SW	21	0108	SW	29	0050	NE
Tu	1201	SW	We	1219	NE	Th	0746	NE	Fr	0547	SW
	1850	NE		1722	SW		1322	SW		1332	NE
							2003	NE		1823	SW
6	0033	SW	14	0045	NE	22	0146	SW			
We	0711	NE	Th	0552	SW	Fr	0823	NE			
	1241	SW		1323	NE		1401	SW			
	1929	NE		1814	SW		2043	NE			
7	0112	SW	15	0150	NE	23	0220	SW			
Th	0745	NE	Fr	0704	SW	Sa	0901	NE			
	1318	SW		1431	NE		1438	SW			
	2008	NE		1918	SW		2121	NE			
8	0148	SW	16	0312	NE	24	0251	SW			
Fr	0821	NE	Sa	0835	SW	Su	0939	NE			
	1356	SW		1542	NE		1512	SW			
	2049	NE		2044	SW		2201	NE			

Caution: Tidal Streams may be subject to irregularities and these times should be regarded as approximate only.

TIMES LISTED ARE NZ STANDARD TIME • REMEMBER TO ADD 1 HOUR FOR NZ DAYLIGHT SAVING TIME (FROM SUNDAY 30 SEPTEMBER 2007 TO SUNDAY 6 APRIL 2008) • CROWN COPYRIGHT RESERVED

→ march 2008

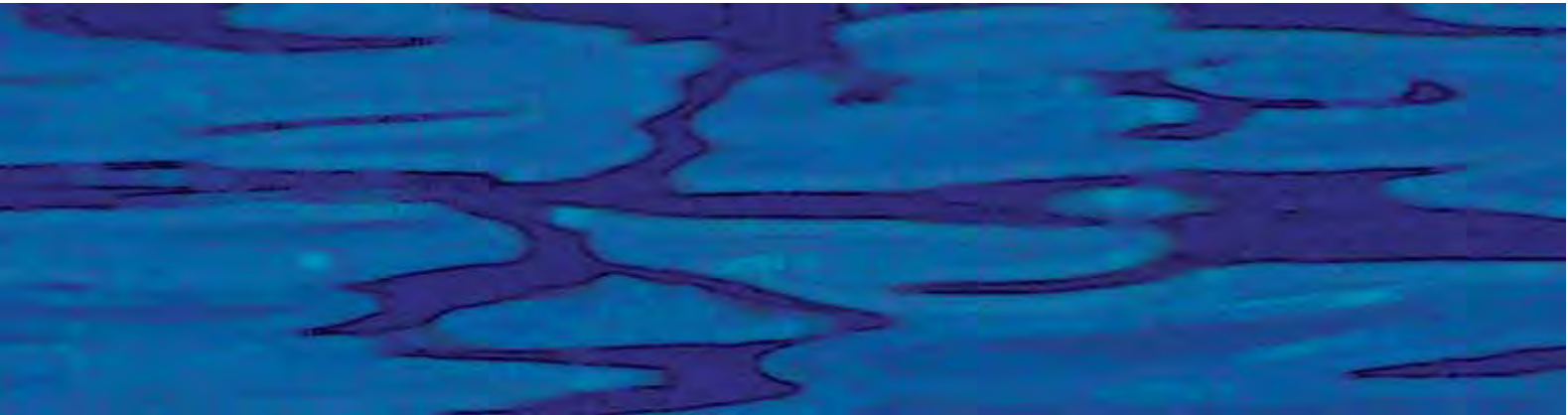
TIME ZONE: -1200 TIDAL STREAM BEGINS AT THE TIME SHOWN IN THE DIRECTION INDICATED

	Time	Dir		Time	Dir		Time	Dir		Time	Dir
1	0150	NE	9	0155	SW	17	0434	NE	25	0246	SW
Sa	0659	SW	Su	0832	NE	Mo	0947	SW	Tu	0939	NE
	1439	NE		1410	SW		1645	NE		1511	SW
	1928	SW		2103	NE		2212	SW		2159	NE
2	0311	NE	10	0234	SW	18	0532	NE	26	0316	SW
Su	0838	SW	Mo	0914	NE	Tu	1045	SW	We	1018	NE
	1551	NE		1450	SW		1740	NE		1545	SW
	2056	SW		2147	NE		2316	SW		2238	NE
3	0437	NE	11	0313	SW	19	0613	NE	27	0349	SW
Mo	0954	SW	Tu	1003	NE	We	1134	SW	Th	1102	NE
	1655	NE		1532	SW		1824	NE		1621	SW
	2219	SW		2235	NE					2321	NE
4	0532	NE	12	0354	SW	20	0003	SW	28	0427	SW
Tu	1047	SW	We	1057	NE	Th	0647	NE	Fr	1152	NE
	1746	NE		1617	SW		1218	SW		1702	SW
	2317	SW		2326	NE		1902	NE			
5	0611	NE	13	0441	SW	21	0042	SW	29	0009	NE
We	1131	SW	Th	1157	NE	Fr	0721	NE	Sa	0513	SW
	1828	NE		1704	SW		1257	SW		1251	NE
							1938	NE		1750	SW
6	0001	SW	14	0023	NE	22	0117	SW	30	0108	NE
Th	0644	NE	Fr	0538	SW	Sa	0753	NE	Su	0621	SW
	1212	SW		1304	NE		1301	SW		1402	NE
	1905	NE		1758	SW		2013	NE		1853	SW
7	0041	SW	15	0132	NE	23	0148	SW	31	0227	NE
Fr	0717	SW	Sa	0657	SW	Su	0826	NE	Mo	0751	SW
	1250	NE		1419	NE		1406	SW		1517	NE
	1942	NE		1908	SW		2047	NE		2015	SW
8	0118	SW	16	0302	NE	24	0217	SW			
Sa	0752	NE	Su	0830	SW	Mo	0902	NE			
	1329	SW		1535	NE		1438	SW			
	2021	NE		2042	SW		2123	NE			

→ april 2008

TIME ZONE: -1200 TIDAL STREAM BEGINS AT THE TIME SHOWN IN THE DIRECTION INDICATED

	Time	Dir		Time	Dir		Time	Dir		Time	Dir
1	0355	NE	9	0252	SW	17	0547	NE	25	0324	SW
Tu	0908	SW	We	0940	NE	Th	1104	SW	Fr	1031	NE
	1624	NE		1515	SW		1801	NE		1558	SW
	2134	SW		2213	NE		2332	SW		2252	NE
2	0455	NE	10	0339	SW	18	0620	NE	26	0404	SW
We	1004	SW	Th	1038	NE	Fr	1146	SW	Sa	1124	NE
	1717	NE		1603	SW		1836	NE		1640	SW
	2235	SW		2308	NE					2340	NE
3	0536	NE	11	0431	SW	19	0010	SW	27	0453	SW
Th	1050	SW	Fr	1143	NE	Sa	0650	NE	Su	1225	NE
	1758	NE		1654	SW		1224	SW		1728	SW
	2322	SW					1909	NE			
4	0611	NE	12	0010	NE	20	0043	SW	28	0040	NE
Fr	1134	SW	Sa	0534	SW	Su	0721	NE	Mo	0555	SW
	1835	NE		1255	NE		1300	SW			

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